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T. O. 1T-28A-4
(Formerly AN 01-60FGA-4)

TECHNICAL MANUAL

ILLUSTRATED PARTS BREAKDOWN

USAF SERIES

T-28A and T-28D

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AIRCRAFT

Contract W33-038-ac-21800
Contract AF04(607)-6776

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PUBLISHED UNDER AUTHORITY OF THE SECRETARY OF THE AIR FORCE

AF SMAMA NOV 63, 900

23 JUNE 1952
REVISED 20 SEPTEMBER 1963

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SECTION I

INTRODUCTION

This Illustrated Parts Breakdown is applicable to the USAF Model T-28A and T-28D Airplanes. The T-28A Model was manufactured by North American Aviation, Inc. of Los Angeles, California. The T-28D Airplanes are those T-28A Models which were selected for modernization and redesignated as T-28D's.

This Illustrated Parts Breakdown is divided into six sections consisting of:

Section I	Introduction
Section II	Group Assembly Parts List
Section III	Numerical Index (for Section II)
Section IV	Reference Designation Index
Section V	Group Assembly Parts List (T-28D Model only)
Section VI	Numerical Index (for Section V)

Section II of this publication lists and illustrates the parts which are applicable to the T-28A Model and those parts which are common to the T-28A Model and the T-28D Model. Section V represents the T-28D configuration only.

NOTE: In order to expedite the delivery of Spare Parts, the Airplane Model, Serial Number, Part Number, Stock Number and Title should be supplied when requesting parts. The exact position, function and other pertinent data contributing to the adequate definition of parts, if supplied with the requisition, may well avoid costly delay in procurement.

Supplementary information of the operation, repair and inspection may be found in the following publications:

T.O. 1T-28A-1	Handbook of Flight Operating Instructions
T.O. 1T-28A-2	Handbook of Maintenance Instructions
T.O. 1T-28A-3	Handbook of Structural Repair
T.O. 1T-28A-6	Handbook of Inspection Requirements

SECTION II CODING EXPLANATION

"Useable on" Codes have been employed throughout this section to indicate the limited use of certain parts. These "Useable on" Codes, when decoded by use of this Master Coding Page, indicate the USAF SERIAL NUMBERS of the Airplanes on which these parts are used.

For example, the Useable on Code (4--C) after a part would indicate that this part is used beginning with the airplane coded (4) (T-28A, 49-1492) to and including the airplane coded (4C) (T-28A, 49-1528).

The code (10-) would indicate that the part is used beginning with the airplane coded (10) (T-28A, 49-1498), and on all subsequent T-28A Airplanes. Note that on this type code the Hyphen "-" is used to mean "and subsequent".

The code (10) without the Hyphen "-" would indicate that the part is used on the airplane coded (10) only (T-28A, 49-1498).

Parts or installations and assemblies that are not coded are used on all T-28 Airplanes.

SECTION V CODING EXPLANATION

The below listed codes are used in Section V to restrict the usage of parts to certain T-28D Airplanes. It is to be noted that the absence of a code letter in the "Useable on Code" column indicates that the part is applicable to all T-28D Airplanes.

MASTER CODING:

Useable on Code	USAF Model	USAF Serial Numbers
4	T-28A	49-1492
5	T-28A	49-1493
6	T-28A	49-1494
7	T-28A	49-1495
8	T-28A	49-1496
9	T-28A	49-1497
10	T-28A	49-1498
11	T-28A	49-1499
15	T-28A	49-1503
16	T-28A	49-1504
20	T-28A	49-1508
21	T-28A	49-1509
25	T-28A	49-1513
26	T-28A	49-1514
28	T-28A	49-1516
29	T-28A	49-1517
33	T-28A	49-1521
34	T-28A	49-1522
35	T-28A	49-1523
36	T-28A	49-1524
37	T-28A	49-1525
39	T-28A	49-1527
40	T-28A	49-1528
41	T-28A	49-1529
60	T-28A	49-1548
61	T-28A	49-1549
80	T-28A	49-1568
81	T-28A	49-1569
82	T-28A	49-1570
83	T-28A	49-1571
111	T-28A	49-1599
112	T-28A	49-1600
113	T-28A	49-1601
122	T-28A	49-1610
123	T-28A	49-1611
140	T-28A	49-1628
141	T-28A	49-1629
160	T-28A	49-1648
161	T-28A	49-1649
173	T-28A	49-1661
174	T-28A	49-1662
175	T-28A	49-1663
176	T-28A	49-1664
180	T-28A	49-1668
181	T-28A	49-1669
200	T-28A	49-1688
201	T-28A	49-1689
220	T-28A	49-1708
221	T-28A	49-1709
229	T-28A	49-1717
230	T-28A	49-1718
241	T-28A	49-1729
242	T-28A	49-1730
243	T-28A	49-1731
249	T-28A	49-1737
250	T-28A	49-1738
252	T-28A	49-1740
253	T-28A	49-1741
268	T-28A	49-1756
269	T-28A	50-195
270	T-28A	50-196
271	T-28A	50-197
299	T-28A	50-225

Useable on Code	USAF Model	USAF Serial Numbers
308	T-28A	50-234
309	T-28A	50-235
328	T-28A	50-254
329	T-28A	50-255
369	T-28A	50-295
393	T-28A	50-319
394	T-28A	51-3463
395	T-28A	51-3464
396	T-28A	51-3465
397	T-28A	51-3466
431	T-28A	51-3500
443	T-28A	51-3512
455	T-28A	51-3524
456	T-28A	51-3525
493	T-28A	51-3562
494	T-28A	51-3563
515	T-28A	51-3584
516	T-28A	51-3585
523	T-28A	51-3592
524	T-28A	51-3593
528	T-28A	51-3597

Useable on Code	USAF Model	USAF Serial Numbers
529	T-28A	51-3598
543	T-28A	51-3612
544	T-28A	51-3613
545	T-28A	51-3614
546	T-28A	51-3615
555	T-28A	51-3624
556	T-28A	51-3625
571	T-28A	51-3640
572	T-28A	51-3641
573	T-28A	51-3642
574	T-28A	51-3643
575	T-28A	51-3644
578	T-28A	51-3647
579	T-28A	51-3648
587	T-28A	51-3656
588	T-28A	51-3657
593	T-28A	51-3662
594	T-28A	51-3663
595	T-28A	51-3664
596	T-28A	51-3665
633	T-28A	51-3702

Useable on Code	USAF Model	USAF Serial Numbers
634	T-28A	51-3703
644	T-28A	51-3713
693	T-28A	51-3762
694	T-28A	51-3763
743	T-28A	51-7497
744	T-28A	51-7498
793	T-28A	51-7547
794	T-28A	51-7548
843	T-28A	51-7597
844	T-28A	51-7598
846	T-28A	51-7600
847	T-28A	51-7601
893	T-28A	51-7647
894	T-28A	51-7648
943	T-28A	51-7697
944	T-28A	51-7698
993	T-28A	51-7747
994	T-28A	51-7748
1094	T-28A	51-7848
1137	T-28A	51-7891
1138	T-28A	52-1186

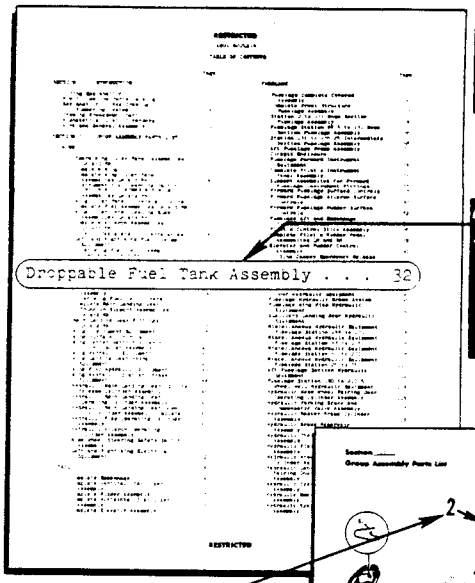
BLOCK DESIGNATIONS

T-28A-1 . . USAF Serial Numbers 49-1492 thru 49-1756, 50-195 thru 50-319, 51-3463 thru 51-3796
51-7482 thru 51-7891, 52-1186 thru 52-1242, 52-3497, 52-3498

USEABLE ON CODE	MAP DESIGNATION (T-28D ONLY)
A	2T-120
B	2T-121
C	2T-122
D	2T-114

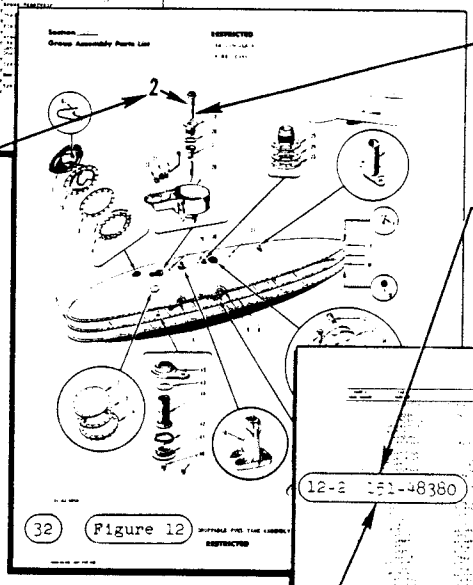
HOW TO USE THE PARTS CATALOG

HOW TO FIND A PART—when the Part Number is not known



1. Determine the location of the part in relation to the major groups of the airplane: Wing, Tail, Fuselage, Alighting Gear, Power Plant and Engine Section, and Loose Equipment.

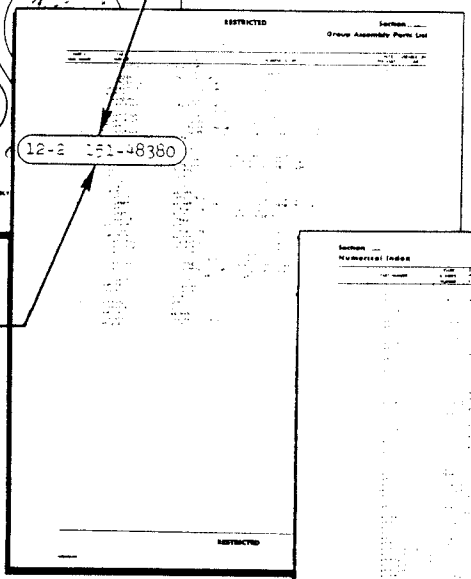
2. Turn to the Table of Contents. Under each of the major group headings will be found a list of all illustrations comprising that group. From this list select the illustration most likely to contain the desired part; or Consult one of the Complete System Installation Drawings which appear as the last pages of Section II. These illustrations show complete functional systems (Fuel, Hydraulic, Electrical, etc.), and serve as a visual index to the equipment throughout the catalog.



3. Refer to the page number indicated and find desired part on illustration.

3. If illustration of part is desired—refer to same Figure and Index Number on accompanying illustration.

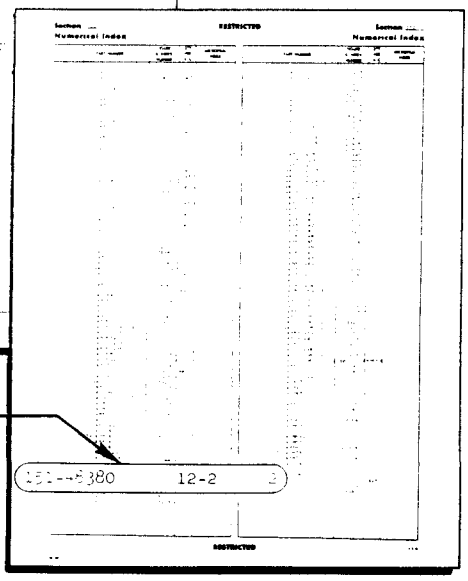
4. Note the Figure Number of the illustration and the Index Number of the part. Refer to the corresponding Figure-Index Number on the Assembly List page for Part Number, Nomenclature, etc.



2. Turn to Figure and Index Number indicated to obtain desired information.

—when the Part Number is known

1. Find the Part Number in the Numerical Parts List. Note the Figure and Index Number where the part is called out in Group Assembly Parts List.



SECTION II—GROUP ASSEMBLY PARTS LIST illustrates and lists parts which are stocked or likely to be stocked as being capable of replacement. Parts which have lost their individual identity as a result of being fabricated into a permanent assembly are not listed. The listing of parts in this catalog shall not be construed to mean that all parts have been procured and are in stock as spares. Whether or not a part has been procured as a replacement part shall be determined from Air Force Stock Lists.

1 FIGURE NUMBER of corresponding illustration.

2 INDEX NUMBER of part on illustration.

3 PART NUMBER—for explanation of North American Aviation drawing numbering system, see drawing breakdown chart in introduction section.

4 NP indicates Non-Procurable.

5 When LEFT AND RIGHT-HAND PARTS are listed together under one index number, the left-hand parts are shown on the illustrations.

6 ATTACHING PARTS are listed immediately after the item being attached and preceding any components of the item.

7 VENDORS' NAME shown after title—for complete firm name and address, see alphabetical list of Vendors.

8 (GFAE) indicates Government-furnished property. No detail breakdown is listed for these parts.

9 USEABLE CODES—shown here—for explanation see introduction page.

10 INDENTURE of titles indicate the relationship of parts to the next assembly. For example, the items shown here in column 3 are the component parts of 117-54217 and 117-54217-1 Box Assemblies.

11 AR indicates "As Required."

SECTION III—NUMERICAL INDEX is the index for the catalog, listing all part numbers called for in Section II.

12 COMMERCIAL PARTS and parts for which no part number is available are listed at the beginning of the Numerical Parts List in alphabetical order.

13 For STANDARD PARTS, including the Contractor's standards, only one figure and index number is listed.

14 FIGURE AND INDEX NUMBER where parts are illustrated and listed.

15 The QUANTITY PER A/C summarizes the callouts in Section II and is not necessarily total quantity per airplane.

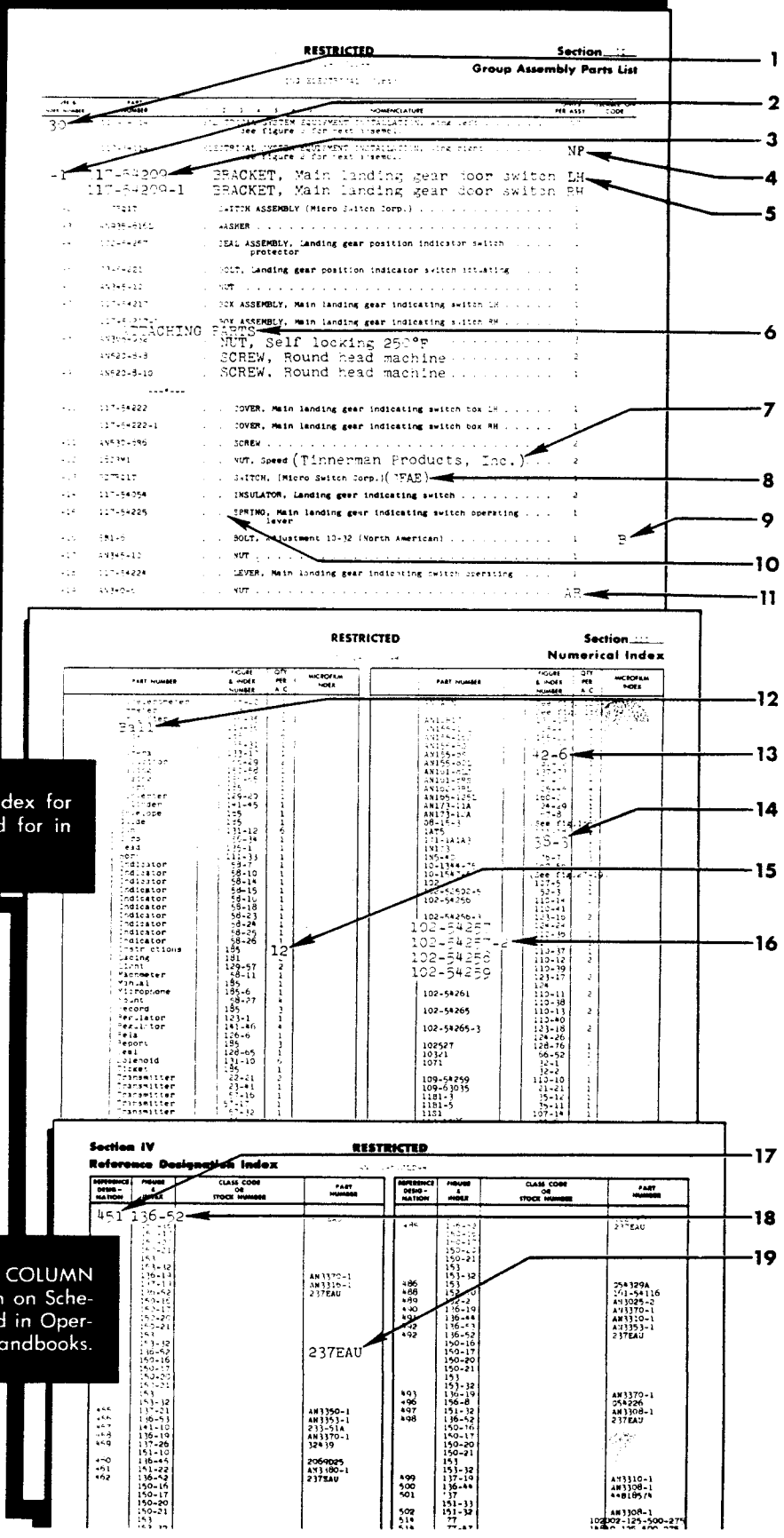
16 The NUMERICAL ARRANGEMENT is in accordance with Specification MIL-B-5005A.

SECTION IV—REFERENCE DESIGNATION COLUMN contains all reference designations shown on Schematic wiring diagrams and text contained in Operating, Service, Maintenance or Overhaul Handbooks.

17 REFERENCE DESIGNATION NUMBER is the number assigned to the part number.

18 FIGURE AND INDEX NUMBER where parts are illustrated and listed.

19 PART NUMBER for identification purpose.



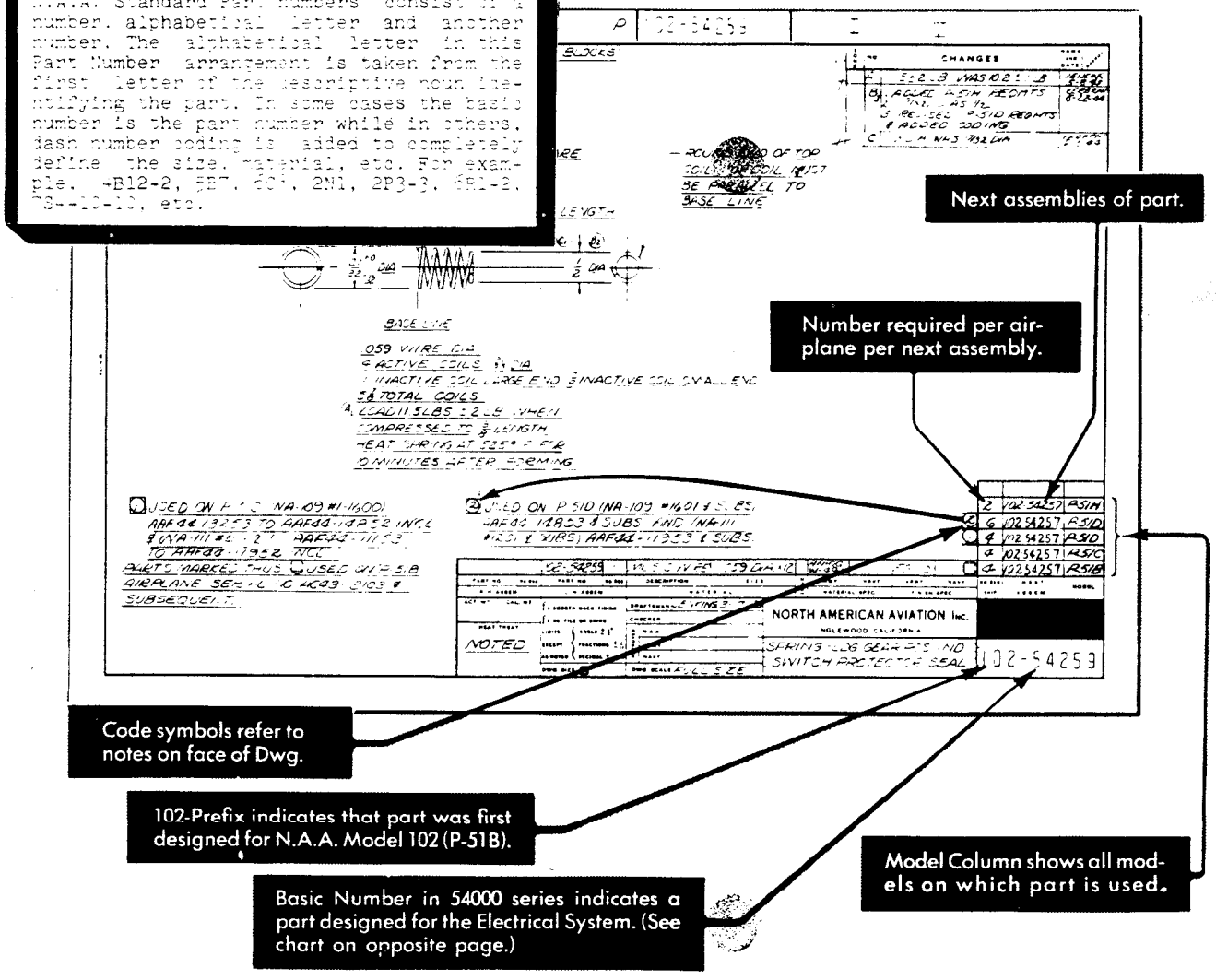
N.A.A. DRAWING NUMBERING SYSTEM

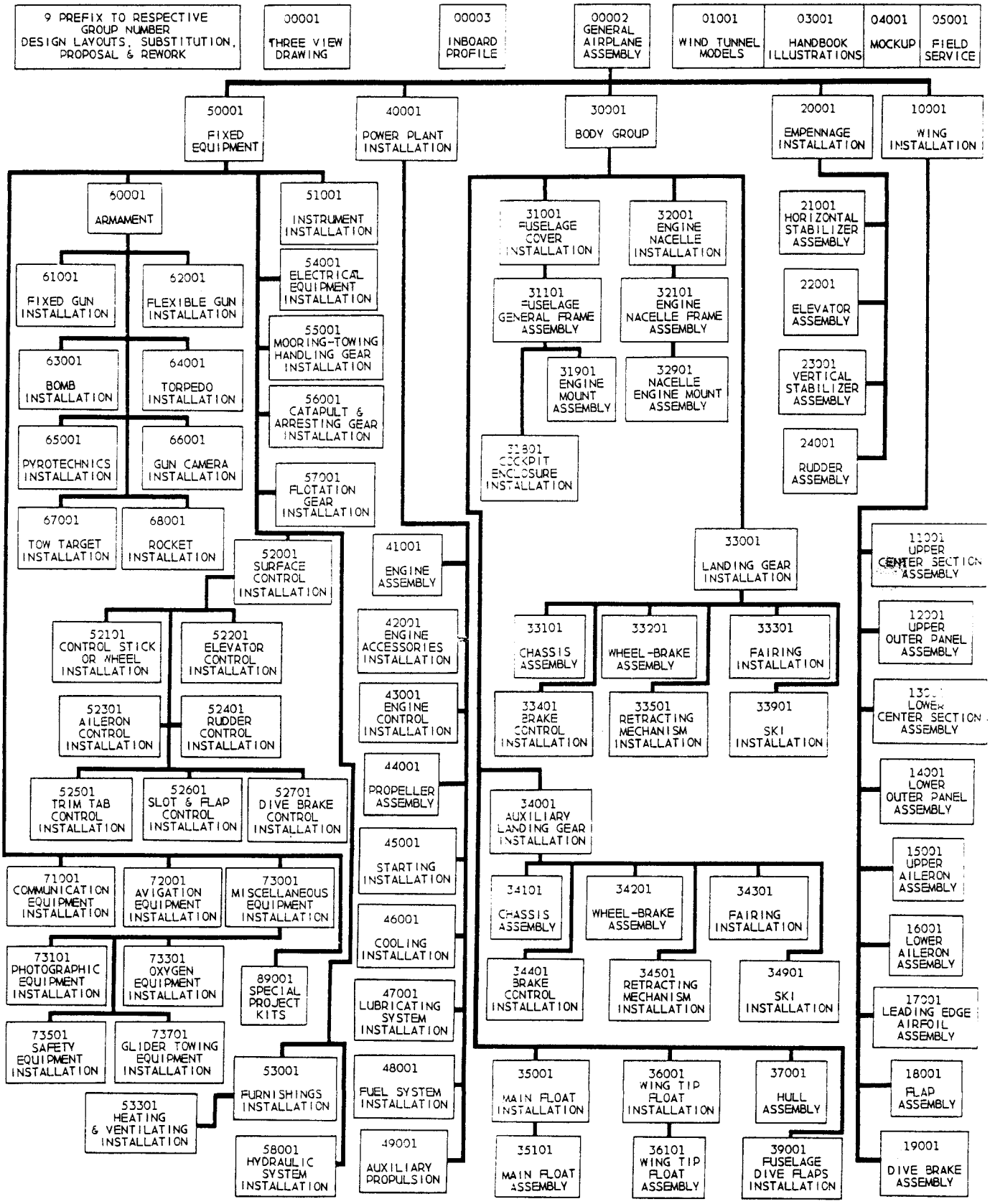
Numbers are assigned to North American Aviation Drawings in accordance with the chart on the opposite page. The basic number (number after the dash) assigned a drawing is determined by the function it performs. For example, Electrical Drawings are assigned numbers in the 54000 series, Hydraulics Drawings in the 58000 series, etc. The identity of a part is determined by the functional group for which it was designed, regardless of its location in the airplane or of its method of attachment. The number before the dash is the North American Aviation Model Designation for the airplane for which the part was originally designed. However, a part originally designed for one model may be used on any other model and if the part remains the same the drawing number also remains the same.

N.A.A. DRAWING PREFIX CHART

PREFIX	MODEL
102	F-51B
109	F-51D
117	F-51H
120	XF-82
123	F-82B
130	XB-45
134	XFJ-1
140	XF-86
141	FJ-1
142	XSN2J-1
144	F-82E
146	XAJ-1
147	B-45A
148	F-82F
151	F-86A
152	F-86A
153	B-45C
156	AJ-1
157	YF-93A
159	T-28A
171	T-28A
174	T-28A
82	B-25C

N.A.A. Standard Part numbers consist of a number, alphabetical letter and another number. The alphabetical letter in this Part Number arrangement is taken from the first letter of the descriptive noun identifying the part. In some cases the basic number is the part number while in others, dash number coding is added to completely define the size, material, etc. For example, -B12-2, 5B7, 6C4, 2N1, 2P3-3, 6B1-2, 7B--10-13, etc.





DRAWING BREAKDOWN CHART

ALPHABETICAL LIST OF VENDORS

Aeragage Company
Milford, Connecticut
Adams Rite Manufacturing Company
542 W. Chevy Chase Drive
Glendale 4, California
Adel Precision Products Corp
10555 Vanowen Blvd
Burbank, California
Advance Electric and Relay Co
2435 N. Naomi Street
Burbank, California
Aero Supply Mfg Co., Inc
Main at Fifth
Corry, Pennsylvania
Aeroproducts, Inc
(General Motors Corp)
Dayton, Ohio
Aeroquip Corporation
300 S. East Avenue
Jackson, Michigan
Air Associates, Inc
Teterboro, New Jersey
(now Electronic Communications)
Air-Maze Corporation
5180 Harvard Avenue
Cleveland 5, Ohio
Aircraft Marine Products, Inc
2102 Paxton Street
Harrisburg 2, Pennsylvania
Aircraft Standard Parts Co
Rockford, Illinois
American Air Filter Company, Inc
300 Central Avenue
Louisville 8, Kentucky
American Bosch Corporation
3700 Main Street
Springfield 7, Massachusetts
American Chain and Cable Company, Inc
Connecticut Avenue & Heavitt
Bridgeport 2, Connecticut
American Phenolic Corp
1830 South 54th Avenue
Chicago 50, Illinois
American Screw Company
W. Main & Eagle Streets
Willimantic, Connecticut
American Seating Company
Grand Rapids 2, Michigan
American Stock Gear Company
Chicago, Illinois
Aro Equipment Corporation
1949 Erie Avenue
Bryan, Ohio
Axelson Manufacturing Company
Boyle and Randolph Streets
Los Angeles 58, California

B

Barber-Colman Company
115 Loomis Street
Rockford, Illinois
Bardwell and McAlister, Inc
2950 N. Ontario Street
Burbank, California
Bendix Radio Division
Bendix Aviation Corp
Baltimore 4, Maryland
Bertea Product Mfg Co
1450 N. Lake
Pasadena, California
Boston Gear Works
3200 Main Street
Quincy 71, Massachusetts
Breeze Corporation, Inc
18-38 S. 6th Street
Newark 7, New Jersey
Burndy Engineering Company, Inc
107 Bruckner Blvd
New York 54, New York
Burton Electrical Engineering Company
1100 [illegible]
El Segundo, California
Bussmann Manufacturing Co
2538 W. University Dr
St. Louis 7, Missouri

C

C & H Supply Co
821 S. Beach
Inglewood, California
Camloc Fastener Corporation
Paramus, New Jersey
Cannon Electric Development Co
3209 Humboldt Street
Los Angeles 31, California
Carma Manufacturing Company
1879 Mullin Avenue
Torrance, California
Champion Spark Plug Co
900 Upton Avenue
Toledo 1, Ohio
Chapin, Chas. E. Company
Union Street
East Rutherford, New Jersey
Chicago Telephone & Supply
Elkhart, Indiana
Clarostat Manufacturing Company, Inc
1 Wasnington Street
Dover, New Hampshire
Clevenger Engineering Company, The
2021 Nebraska Avenue
Santa Monica, California
Clifford Manufacturing Company
118 Grove Street
Waltham 54, Massachusetts
Comar Electric Company
3347 W. Addison
Chicago 18, Illinois
Cook Electric Company
2700 W Southport Ave
Chicago 14, Illinois
Corbin Cabinet Lock Division
The American Hardware Co
100 Orchard Street
New Britain, Connecticut
Cornelius Company, The
500 - 39th Avenue
Minneapolis, Minnesota
Cornell-Dubilier Electric Corp
1000 Hamilton Blvd
South Plainfield, New Jersey
Cronare, Incorporated
1765 Grace Street
Chicago 13, Illinois
Curtis Automotive Devices, Inc
Bedford, Indiana
Cutler-Hammer, Incorporated
1391 W. St. Paul Avenue
Milwaukee 1, Wisconsin

D

D & M Manufacturing Company
4224 Long Beach Avenue
Los Angeles 11, California
DeJur-Amsco Corporation
45th Street and Northern Blvd
Long Island City, New York
Dzus Fastener Company, Inc
John Street
Batylon, New York

E

Eclipse-Pioneer Division
(Bendix Aviation Corp)
45 Williams Avenue
Teterboro, New Jersey

ALPHABETICAL LIST OF VENDORS

Edwards and Company, Inc
Post Hill Road
Norwalk, Connecticut
Elastic Stop Nut Corporation
2330 Vauxhall Road
Union, New Jersey
Electric Service Manufacturing Co
2901 No. 17th Street
Philadelphia 32, Pennsylvania
Electro-Switch and Controls, Inc
5757 Camille Avenue
Culver City, California
Electronic Communications Inc
1501 N. 72nd Street
St. Petersburg, Florida
Esna Corporation
Union, New Jersey

F

Fafnir Bearing Company, The
39 Booth Street
New Britain, Connecticut
Fairchild Camera & Instrument Corp
88-06 Van Wyck Blvd
Jamica, Long Island
Faraday Electric Corporation
1800 Church
Adrian, Michigan
Federal Telephone and Radio Corp
Newark, New Jersey
Fenwal, Incorporated
113 Pleasant Street
Ashland, Massachusetts
Forest Electric Company, The
Forest Park, Illinois
Fredric Fladger, Inc
Engineering Physics Div
Division & Dun Roads
No. Tonawanda, New York
Fyr Fyter Company, The
1902 Fyr Fyter Building
Dayton, Ohio

G

General Electric Company
Schenectady 5, New York
Gladden Products Corp
Glendale 4, California
Glass Containers, Inc
3601 Santa Fe Avenue
Los Angeles, California
Goodyear Tire and Rubber Co., Inc
(Goodyear Aircraft Corp)
Akron, Ohio
Grand Rapids Metalcraft Corp
Grand Rapids, Michigan
Grimes Manufacturing Company
600 N. Russell Street
Urbana, Ohio

H

Halfco Bearing Company
(Div. of Aetna Steel Products Corp)
812 Flower
Burbank, California
Hall, C. M. Lamp Company
1041 E. Hancock Avenue
Detroit, Michigan
Hamilton Standard Div
United Aircraft Corp
Windsor Locks, Connecticut
Hansen-Lynn Company, Inc
Burbank, California
Hartwell Aviation Supply Company
9035 Venice Blvd
Los Angeles 34, California
Haydon Switch Inc
536 S. Leonard Street
Waterbury 20, Connecticut
Heim Company, The
100 Sanford Street
Fairfield, Connecticut
Heli-Coil Corp. Division
(Topp Industries, Inc)
3 Shelter Rock Lane
Danbury, Connecticut
Helipot Corporation
1011 Mission Street
South Pasadena, California
Henry Engineering Company
3625 W. Pacific
Burbank, California
Henry, Paul Company, The
W. Olympic & Bundy Drive
Los Angeles 64, California
Hetherington, Incorporated
Elmwood & Clifton Avenue
Sharon Hills, Pennsylvania
Hickok Electrical Instrument Company
DuPont & Williams Streets
Cleveland, Ohio
Huber Industries, Inc
Cincinnati, Ohio
Hydro-Aire, Incorporated
3000 Winona Boulevard
Burbank, California
Hydropack
5717 S. Hoover Street
Los Angeles, California

I

Industrial Products Company
(Div. of Danbury-Knudsen, Inc)
c/o Alfred W. Harris
3348 W. Compton Blvd
Gardena, California

J

Jack and Heintz Precision Industries, Inc
17598 Broadway
Cleveland 1, Ohio
Janco Corporation
(formerly Juniper & Norris Co)
3111 Winona Avenue
Burbank, California
Johns-Manville
22 East 40th Street
New York 16, New York
Jones, Howard B.
2640 W. George Street
Chicago, Illinois

K

Kaynar Co. The
Box 2001, Terminal Annex
Los Angeles, California
Kearfott Co., Inc
Littlefalls, New Jersey
Kings Electronics Company
46 Marbledale Road
Tuckanoe, New York
Koehler Aircraft Products Co.
815 Vermont Avenue
Dayton 4, Ohio

L

Leach Relay Company, Inc
9515 Avalon Blvd
Los Angeles, California
Lear, Incorporated
100 Ionia, Northwest
Grand Rapids, Michigan

ALPHABETICAL LIST OF VENDORS (Cont)

Liberty Mirror Division
Libbey-Owens-Ford Glass Co
1938 Colbert
Brackenridge, Pennsylvania
Liquidometer Corporation
39-20 Skillman Avenue
Long Island City 1, New York
Littlefuse, Incorporated
1865 Miner Street
Des Plaines, Illinois
Lord Manufacturing Company
1639 W. 12th Street
Erie, Pennsylvania

M

Mallory, P. R. & Company, Inc
Mallory Building
Indianapolis, Indiana
Marco Industries Company
210 S. Clemintine St.
Anaheim, California
Marman Products Company
940 West Redondo Blvd
Inglewood, California
Mechanical Products, Inc
1824 River Street
Jackson, Michigan
Micro Switch Corporation
Freeport, Illinois
Minneapolis-Honeywell Regulator Co
2954 Fourth Avenue
South Minneapolis 8, Minnesota
Molded Insulation Company, Inc
341 E. Pribe Street
Philadelphia --, Pennsylvania
Monowatt Electric Corp., The
Providence, Rhode Island
Moorlee Manufacturing Co
825 W. 11th Street
Los Angeles, California
Multitek Co
Inglewood 3, California

N

National Lock Company
Rockford, Illinois
Neuschotz Engineering Company
Los Angeles, California
New York Air Brake Company
422 Lexington Avenue
New York, New York
North American Aviation, Inc
International Airport
Los Angeles, California
Novelty Tool Company, Inc
Water Street
Spencer, Massachusetts
UTT-Shel Company, Inc
811 Airway Avenue
Glendale 1, California
ylok Corporation
613 Industrial Avenue
Paramus, New Jersey
ylon Molding Corp.
141 S. Avenue
Garwood, New Jersey

O

hmite Manufacturing Company
4837 W. Flournoy Street
Chicago 44, Illinois
lympic Plastics Company
215 E. Washington Blvd
Los Angeles 15, California
perating and Maintenance Specialties
Charlotte 1, North Carolina

P

Pacific Airmotive Corp
1940 N. Hollywood Way
Burbank, California
Pacific Coast Engineering Company
10910 Ocean Gate Avenue
Inglewood, California
Pacific Div. (Bendix Aviation, Ltd)
North Hollywood, California
Parker Aircraft Company
5827 W. Century Blvd
Los Angeles 45, California
Parker-Kalon Corporation
194 Varick Street
New York 14, New York
Pastushin, Vic Industries
6051 W. Century Blvd.
Los Angeles 45, California
Pesco Products
(Div. Borg-Warner Corp)
North Miles Road
Bedford, Ohio
Phaostron Company
151 Pasadena Avenue
South Pasadena, California
Precision Spring Corp
1540C Woodrow Wilson Avenue
Detroit, Michigan
Presco Products Div. of
Borg-Warner Corp
North Miles Road
Bedford, Ohio
Price Electric Corp
5560 Church Street
Frederick, Maryland
Purolator Products, Inc
Dept T, 1000 New Brunswick Ave
Rahway, New Jersey

R

RCA Victor Division
Radio Corporation of America
30 Rockefeller Plaza
New York, New York
Reid Metal Parts Company
2021 North Lincoln Street
Burbank, California
Robinson Aviation, Inc
48 Industrial Avenue
Peterboro, New Jersey
Rosan, Incorporated
625 Coast Highway
Newport Beach, California
Roylyn, Incorporated
1708 Standard Avenue
Glendale, California

S

Seaboard Electric Company
417 Canal Street
New York, New York
Servomechanisms, Inc
Post & Stewart Avenues
Westbury, Long Island, New York
Shafer Bearing Corporation, The
800 Burlington Avenue
Downers Grove, Illinois
Shakeproof, Incorporated
(Div. Illinois Tool Works)
(2503 N. Keeler Avenue
Chicago, Illinois
Simplex Electric Company
3600 W. Potomac Avenue
Chicago, Illinois
Skinner Purifiers Division
(Bendix Aviation Corp)
1502 Trombly Avenue
Detroit, Michigan

ALPHABETICAL LIST OF VENDORS (Cont)

Soderberg Manufacturing Company, Inc
628 South Palm
Alhambra, California
Solar Aircraft Company
2200 Pacific Highway
San Diego, California
Spencer Thermostat Division
(Metals & Controls Corp)
30 Forest
Attleboro, Massachusetts
Sperry Gyroscope Company, Inc
Great Neck, New York
Sprague Electric Company
149 Marshall Street
North Adams, Massachusetts
SPS Western Co. Div
(Standard Pressed Steel)
2701 Harbor
Santa Ana, California
Square D Company
6000 Rivard Street
Detroit 11, Michigan
Standard Pressed Steel Company
Box 732
Jenkintown, Pennsylvania
Standard-Thompson Corporation
Franklin Street at Ludlow
Dayton, Ohio
Stewart, Manufacturing Corp., F. W.
1638 South Flower
Los Angeles, California
Stop-Fire, Incorporated
Ashland Place & Willoughby Street
Brooklyn, New York
Strom Steel Ball Company
1850 South 54th Avenue
Cicero 50, Chicago, Illinois
Stratoflex, Inc
Ft Worth, Texas
Struthers-Dunn, Incorporated
150 North 13th Street
Philadelphia 7, Pennsylvania
Surface Combustion Corp
Toledo, Ohio

T

Texas Instruments
Box 5012
Dallas, Texas
Thompson Products, Inc
2355 Euclid Avenue
Cleveland, Ohio
Tinnerman Products, Inc
2064 Fulton Road
Cleveland 13, Ohio
Tison Brothers
2226 S. Sepulveda Blvd
West Los Angeles 25, California
Titeflex, Incorporated
502 Frelinghuysen Avenue
Newark 5, New Jersey
Torrington Company, The
1000 Clark Street
Torrington, Connecticut

U

Ucinite Company, The
1 Nevada Street
Newtonville 60, Massachusetts
Union Hardware and Metal Company
5555 Ferguson Drive
Los Angeles, California
United Aircraft Products, Inc
1116 Bolender Avenue
Dayton 1, Ohio
United-Carr Fastener Corporation
450 Main Street
Cambridge 42, Massachusetts
United States Gauge
(Div. of American Machine & Metals, Inc)
Sellersville 31, Pennsylvania
United States Rubber Company
1232 Avenue of the Americas
New York 20, New York
Universal Metal Products
2311 W. Orange
Alhambra, California
Utility Tool and Die Manufacturing, Inc
403 S. Raymond
Pasadena, California

W

Walter Kidde & Company, Inc
476 Main Street
Belleville 9, New Jersey
Waterman Engineering Company
725 Custer Avenue
Evanston, Illinois
Weatherford Company, R. V.
6921 San Fernando Road
Glendale, California
Wemac Company
502 S. Isis
Inglewood, California
West Coast Electrical Manufacturing Co
10004 S. Main Street
Los Angeles 3, California
Westinghouse Electric Corporation
Small Motors Division
P. O. Box 868
Pittsburgh 30, Pennsylvania
Westinghouse Electric Corporation
Aerospace Dept
Lima, Ohio
Weston Electrical Instrument Corp.
614 Frelinghuysen Avenue
Newark 5, New Jersey
Weston Hydraulic Company, Ltd
10918 Burbank Blvd
North Hollywood, California
White, S. S., Dental Mfg Co, The
10 E. 40th Street
Department T
New York 16, New York
Whittaker, Wm. R., Company, Ltd
915 N. Citrus Avenue
Los Angeles 38, California
Wilcolater Company, The
1002 Newark Avenue
Elizabeth 3, New Jersey
Wolfe, Franklin C., Company, Inc
3644 Eastman Drive
Culver City, California
Wood Electric Company
Newbury Port, Massachusetts
Wright Aeronautical Corporation
Wood-Ridge, New Jersey

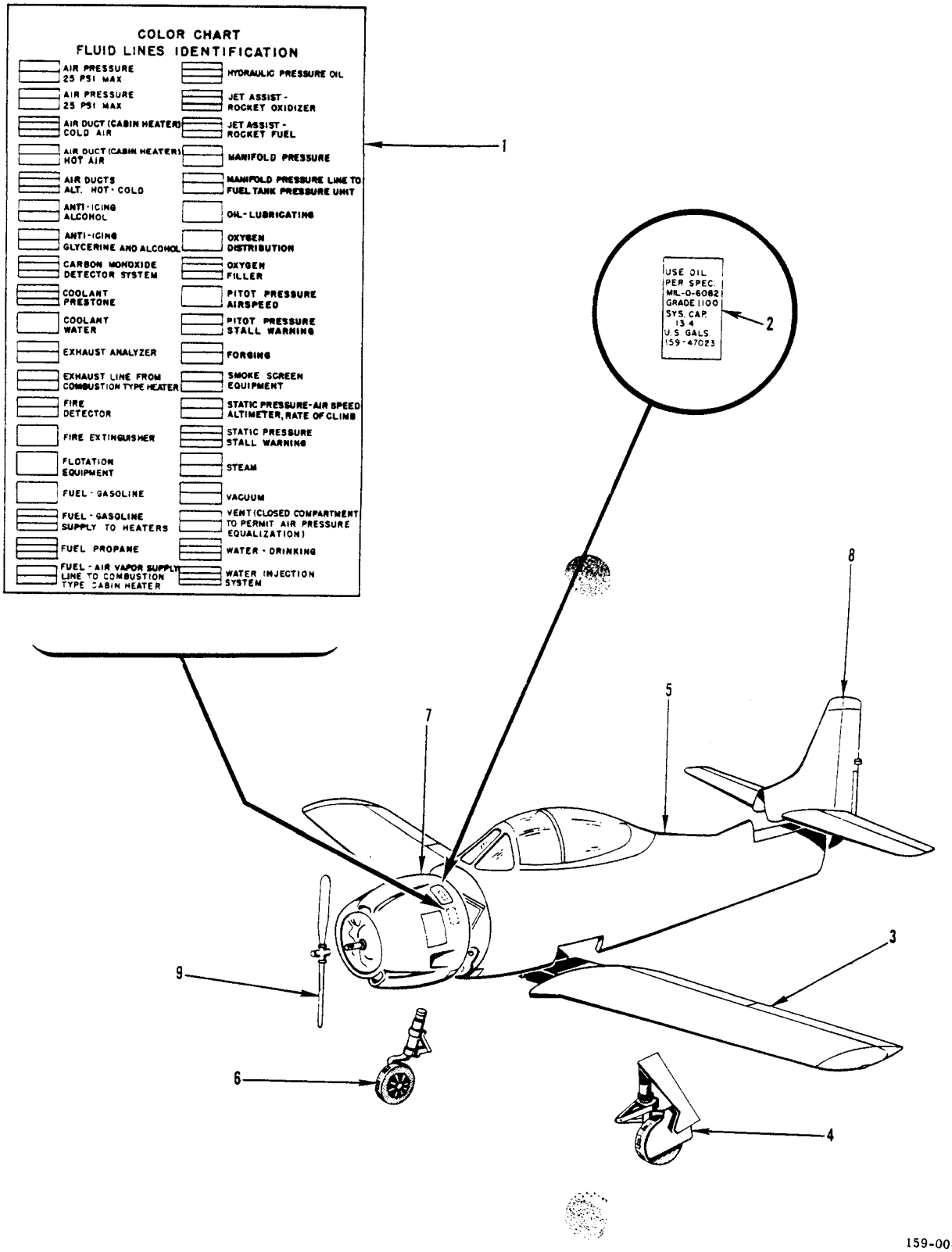


FIGURE 1 - COMPLETE AIRPLANE ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
1	159-00002		AIRPLANE ASSEMBLY, Complete	1	4-393
	174-00002		AIRPLANE ASSEMBLY, Complete	1	394-
	159-00010		. MARKINGS, Airplane	NP	4-393
	174-00010		. MARKINGS, Airplane	NP	394-
-1	AN8022-1		. . COLOR CHART, Fluid lines identification (colors to be in accordance with AND10375)	1	
-2	159-47023		. . DECAL, Oil tank filler access door	1	
-3	159-10001		. WING INSTALLATION, Complete (see figure 3 for detail breakdown)	NP	
	159-10010		. . WING ASSEMBLY, Complete (see figure 4 for detail breakdown)	Ref	
	159-14602-1		. . . PANEL ASSEMBLY, Wing complete LH (see figure 5 for detail breakdown)	Ref	
	159-14602-2		. . . PANEL ASSEMBLY, Wing complete RH (see figure 5 for detail breakdown)	Ref	
-4	159-33013-1		. . . . MAIN ALIGHTING GEAR INSTALLATION, Wing LH (see figure 198 for detail breakdown)	NP	
	159-33013-2		. . . . MAIN ALIGHTING GEAR INSTALLATION, Wing RH (see figure 198 for detail breakdown)	NP	
-5	159-31001		. FUSELAGE INSTALLATION, Complete (see figure -9 for detail breakdown)	NP	
	159-31601		. . FUSELAGE ASSEMBLY, Forward section station -9 1/2 to 238 7/8 complete (see figure 50 for detail breakdown)	Ref	
	159-31101		. . . FRAME ASSEMBLY, - Fuselage station 49 1/2 to 238 7/8 complete (see figure 51 for detail breakdown)	Ref	
	159-31603		. . . . FUSELAGE ASSEMBLY, Station 49 1/2 to 166. complete (see figure 51 for detail breakdown)	Ref	
-6	159-34031		. . . . . AUXILIARY ALIGHTING GEAR INSTALLATION, (see figure 211 for detail breakdown)	NP	
-7	159-40040		. . . POWER PLANT INSTALLATION, Complete (see figure 220 for detail breakdown)	NP	
	159-31602		. . FUSELAGE ASSEMBLY, Aft section station 238 7/8 to station 338 7/8 complete (see figure 55 for detail breakdown)	Ref	
-8	159-20001		. . . EMPENNAGE INSTALLATION, Complete (see figure 42. for detail breakdown)	NP	
-9	159-44001		. PROPELLER INSTALLATION, (see figure 220 for detail breakdown)	NP	
	159-31002		. DOOR INSTALLATION, Baggage and access (see figure 89 for detail breakdown)	NP	
	159-53075		. DATA INSTALLATION, Loose equipment and general (see figure 253 for detail breakdown)	NP	
	159-54037		. ELECTRICAL EQUIPMENT INSTALLATION, Miscellaneous (see figure 150 for detail breakdown)	NP	4-268
	159-71001		. RADIO SYSTEM EQUIPMENT INSTALLATION, Complete (see figure 174, 176, and 178 for detail breakdown)	NP	4-265
	171-71001		. RADIO SYSTEM EQUIPMENT INSTALLATION, Complete see figures 175, 176, 177, 179, 180, 181 and 182 for detail breakdown)	NP	269-34
	174-71001		. RADIO SYSTEM EQUIPMENT INSTALLATION, Complete see figures 177A, 180A, 181A and 182A for detail breakdown)	NP	844-
	159-48001		. COMPLETE FUEL SYSTEM INSTALLATION	NP	4-393
	174-48001		. COMPLETE FUEL SYSTEM EQUIPMENT INSTALLATION	NP	394-
	174-53093	*1	. HOOD INSTALLATION, Instrument flying (see figure 185 for detail breakdown)	NP	

*1 Refer to T. O. 1T-28A-206

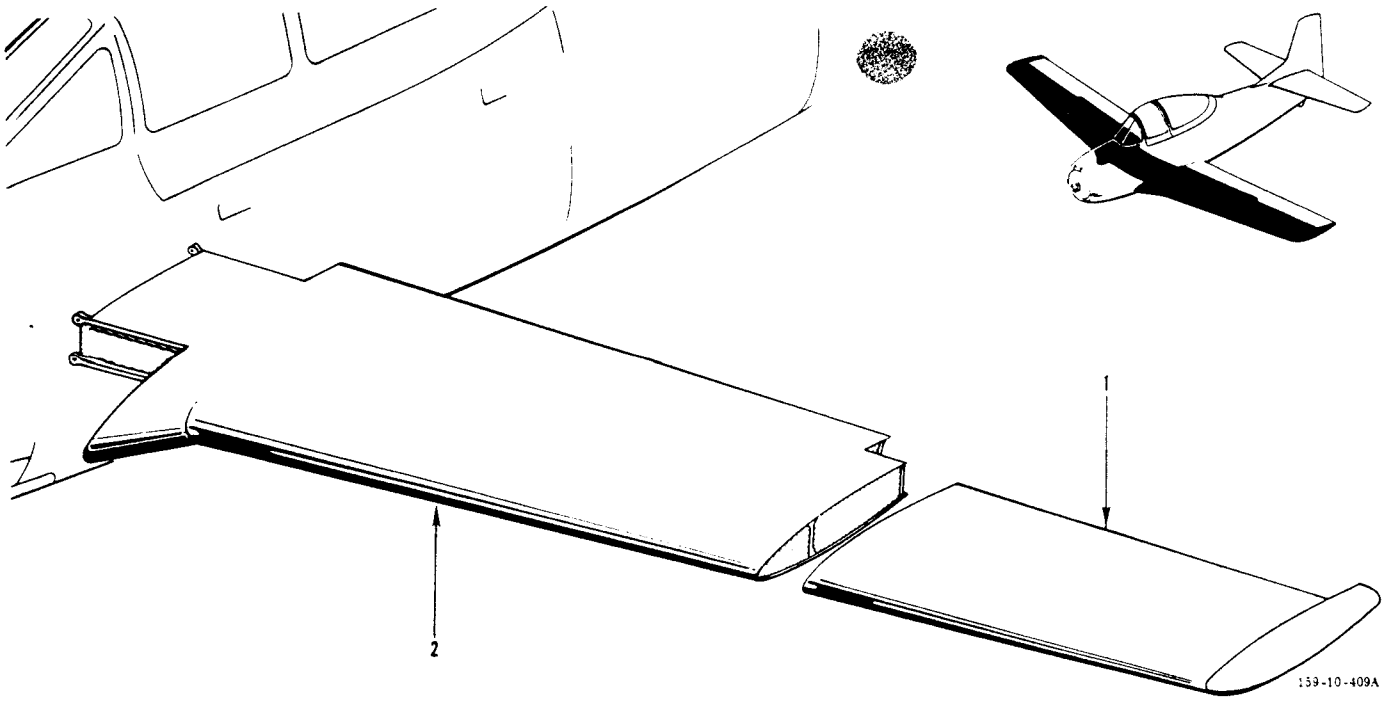


FIGURE 3 - SPARE WING PANEL ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
-1	159-14901-1	PANEL ASSEMBLY, OUTER WING SPARE LH (SUPERSEDED BY 159-14901-201)	1	4-268
	159-14901-201	PANEL ASSEMBLY, OUTER WING SPARE LH (SUPERSEDES 159-14901-1). . .	1	4-268
	159-14901-301	PANEL ASSEMBLY, OUTER WING SPARE LH	1	269-393
	174-14901-1	PANEL ASSEMBLY, OUTER WING SPARE LH	1	394-593
	174-14901-101	PANEL ASSEMBLY, OUTER WING SPARE LH	1	594-
	159-14901-2	PANEL ASSEMBLY, OUTER WING SPARE RH (SUPERSEDED BY 159-14901-202)	1	4-393
	159-14901-202	PANEL ASSEMBLY, OUTER WING SPARE RH (SUPERSEDES 159-14901-2). . .	1	4-393
	174-14901-2	PANEL ASSEMBLY, OUTER WING SPARE RH	1	394-
	159-14601-201	. WING ASSEMBLY, OUTER PANEL LH (SEE FIGURE 7) (EACH ASSEMBLY. . TO INCLUDE ELECTRICAL WIRING BUT LESS GFAE)	1	4-393
	174-14601-1	. WING ASSEMBLY, OUTER PANEL LH (SEE FIGURE 8) (EACH ASSEMBLY. . TO INCLUDE ELECTRICAL WIRING BUT LESS GFAE)	1	394-593
	174-14601-101	. WING ASSEMBLY, OUTER PANEL LH (SEE FIGURE 8) (EACH ASSEMBLY. . TO INCLUDE ELECTRICAL WIRING BUT LESS GFAE)	1	594-
	159-14601-202	. WING ASSEMBLY, OUTER PANEL RH (SEE FIGURE 7) (EACH ASSEMBLY. . TO INCLUDE ELECTRICAL WIRING BUT LESS GFAE)	1	4-393
	174-14601-2	. WING ASSEMBLY, OUTER PANEL RH (SEE FIGURE 8) (EACH ASSEMBLY. . TO INCLUDE ELECTRICAL WIRING BUT LESS GFAE)	1	394-
		COMPLETE EXCEPT FOR THE FOLLOWING PARTS:		
	159-16301	. . AILERON ASSEMBLY, COMPLETE (SUPERSEDES 159-16001 AND. . . . 159-16001-101) (SEE FIGURE 25)	2	
	174-48003-1	. . CELL ASSEMBLY, WING OUTER PANEL LH (SEE FIGURE 32).	1	394-
	174-48003-2	. . CELL ASSEMBLY, WING OUTER PANEL RH (SEE FIGURE 32).	1	394-
	EA1030-793	. . TANK UNIT ASSEMBLY LH (SEE FIGURE 35)	1	394-
	EA1030-792	. . TANK UNIT ASSEMBLY RH (SEE FIGURE 35)	1	394-
	39B5436	. . CAP ASSEMBLY, FUEL TANK FILLER (SEE FIGURE 32).	1	394-
	174-48801-3	. . LINE ASSEMBLY, WOP FUEL VENT LH INTERCONNECTOR. . . . . INTERNAL SECTION NO. 1 (SEE FIGURE 32)	1	394-
	174-48801-5	. . LINE ASSEMBLY, WOP FUEL VENT LH INTERCONNECTOR . . . . . INTERNAL SECTION NO. 2 (SEE FIGURE 32)	1	394-
	174-48801-4	. . LINE ASSEMBLY, WOP FUEL VENT RH INTERCONNECTOR . . . . . INTERNAL SECTION NO. 1 (SEE FIGURE 32)	1	394-
	174-48801-6	. . LINE ASSEMBLY, WOP FUEL VENT RH INTERCONNECTOR . . . . . INTERNAL SECTION NO. 2 (SEE FIGURE 32)	1	394-
	174-48177	. . GASKET, CENTER SECTION WING FUEL VENT INTERCONNECTOR . . . (SEE FIGURE 32)	1	394-
	174-48181	. . NIPPLE, WOP FUEL VENT INTERCONNECTOR (SEE FIGURE 32). . . .	1	394-
	159-48051	. . GASKET, WCS FUEL TANK VENT AND FUEL OUT-FITTING . . . . . (SEE FIGURE 32)	1	394-
	159-48074	. . VALVE ASSEMBLY, FUEL TANK VENT SLOSH (SEE FIGURE 32). . . .	1	394-
	159-48026	. . GASKET, WCS FUEL TANK QUANTITY TRANSMITTER (SEE FIG. 35). .	1	394-
-2	159-13901-1	PANEL ASSEMBLY, WING CENTER SECTION SPARE LH.	1	4-268
	159-13901-101	PANEL ASSEMBLY, WING CENTER SECTION SPARE LH.	1	269-393

SECTION II

GROUP ASSEMBLY PARTS LIST

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
2	174-13901-1	PANEL ASSEMBLY, WING CENTER SECTION SPARE LH	1	394-
	159-13901-2	PANEL ASSEMBLY, WING CENTER SECTION SPARE RH	1	4-393
	174-13901-2	PANEL ASSEMBLY, WING CENTER SECTION SPARE RH	1	394-
	159-13601-1	. WING ASSEMBLY, CENTER SECTION LH (SEE FIGURE 13) (EACH ASSEMBLY TO INCLUDE ELECTRICAL WIRING BUT LESS GFAE)	1	4-268
	159-13601-101	. WING ASSEMBLY, CENTER SECTION LH (SEE FIGURE 13) (EACH ASSEMBLY TO INCLUDE ELECTRICAL WIRING BUT LESS GFAE)	1	269-393
	174-13601-1	. WING ASSEMBLY, CENTER SECTION LH (SEE FIGURE 14) (EACH ASSEMBLY TO INCLUDE ELECTRICAL WIRING BUT LESS GFAE)	1	394-
	159-13601-2	. WING ASSEMBLY, CENTER SECTION RH (SEE FIGURE 13) (EACH ASSEMBLY TO INCLUDE ELECTRICAL WIRING BUT LESS GFAE)	1	4-393
	174-13601-2	. WING ASSEMBLY, CENTER SECTION RH (SEE FIGURE 14) (EACH ASSEMBLY TO INCLUDE ELECTRICAL WIRING BUT LESS GFAE)	1	394-
		COMPLETE EXCEPT FOR THE FOLLOWING PARTS:		
	159-18001-401	. . FLAP ASSEMBLY, WING LH (SUPERSEDES 159-18001-1, -201, -301) (SEE FIGURE 24)	1	
	159-18001-402	. . FLAP ASSEMBLY, WING RH (SUPERSEDES 159-18001-2, -102, -202, AND -302) (SEE FIGURE 24)	1	
	159-33101-11	. . CHASSIS ASSY, MAIN ALIGHTING GEAR LH (SEE FIG. 200). . . .	1	
	159-33101-2	. . CHASSIS ASSY, MAIN ALIGHTING GEAR RH (SEE FIG. 200). . . .	1	
	159-48016-1	. . CELL ASSEMBLY, COMPLETE FUEL LH (SEE FIGURE 28).	1	4-7
	159-48016-3	. . CELL ASSEMBLY, COMPLETE FUEL LH (SEE FIGURE 28).	1	8-393
	174-48016-1	. . CELL ASSEMBLY, COMPLETE FUEL LH (SEE FIGURE 29).	1	394-
	159-48016-2	. . CELL ASSEMBLY, COMPLETE FUEL RH (SEE FIGURE 28).	1	4-7
	159-48016-4	. . CELL ASSEMBLY, COMPLETE FUEL RH (SEE FIGURE 28).	1	8-393
	174-48016-2	. . CELL ASSEMBLY, COMPLETE FUEL RH (SEE FIGURE 29).	1	394-
	159-48017-1	. . PUMP ASSEMBLY, WCS FUEL BOOSTER LH (SEE FIGURE 26)	1	4-393
	159-48017-2	. . PUMP ASSEMBLY, WCS FUEL BOOSTER RH (SEE FIGURE 26)	1	4-393
	159-48021-1	. . SUPPORT ASSY, WCS FUEL TANK VENT OUTLET LH (SEE FIG. 26) .	1	4-393
	159-48021-2	. . SUPPORT ASSY, WCS FUEL TANK VENT OUTLET RH (SEE FIG. 26) .	1	4-393
	159-48074	. . VALVE ASSEMBLY, FUEL TANK VENT SLOSH (SEE FIGURE 33) . . .	1	4-393
	159-48051	. . GASKET, WCS FUEL TANK VENT & FUEL OUT FITTING (SEE FIG.28)	1	4-393
	159-48020	. . GASKET, WCS FUEL TANK FILLER SUPPORT (SEE FIGURE 26) . . .	2	4-393
	157-48257	. . GASKET, FUEL CELL UPPER FUSELAGE AFT VENT MANIFOLD . . . . SEAL (SEE FIGURE 26)	1	4-393
	159-48026	. . GASKET, WCS FUEL TANK QUANTITY TRANSMITTER (SEE FIG. 34) .	2	4-393
	159-58813-3	. . LINE ASSY, LH BRAKE PRESSURE FROM LOWER 45° ELBOW ON . . . STRUT TO 90° ELBOW ON WHEEL BRAKE SPOTS (SEE FIG.37)	1	
	159-58813-4	. . LINE ASSY, RH BRAKE PRESSURE FROM LOWER 45° ELBOW ON . . . STRUT TO 90° ELBOW ON WHEEL BRAKE SPOTS (SEE FIG.37)	1	
	159-58813-5	. . LINE ASSY, LH BRAKE PRESSURE FROM UPPER 45° ELBOW ON . . . STRUT TO CENTER 45° ELBOW ON STRUT (SEE FIG. 37)	1	
	159-58813-6	. . LINE ASSY, RH BRAKE PRESSURE FROM UPPER 45° ELBOW ON . . . STRUT TO CENTER 45° ELBOW ON STRUT (SEE FIG. 37)	1	
	39B5435	. . CAP ASSEMBLY, FUEL CELL (SEE FIGURE 26).	1	4-393
	EA850-636	. . TANK UNIT ASSY, OUTBOARD (LIQUIDOMETER CORP.) LH (NORTH. . AMERICAN DWG NO. 159-951014) (SEE FIGURE 34)	1	4-393
	EA1030-795	. . TANK UNIT ASSEMBLY, OUTER LH (LIQUIDOMETER CORP.)(SEE . . FIGURE 35)	1	394-
	EA850-637	. . TANK UNIT ASSY, INBD (LIQUIDOMETER CORP.) LH (NORTH. . . . AMERICAN DWG NO. 159-951013)(SEE FIGURE 34)	1	4-393
	EA1030-797	. . TANK UNIT ASSY, INNER LH (LIQUIDOMETER CORP.)(SEE FIG. 35)	1	394-
	EA850-643	. . TANK UNIT ASSY, OUTBD (LIQUIDOMETER CORP.) RH (NORTH . . . AMERICAN DWG NO. 159-951014) (SEE FIGURE 34)	1	4-393
	EA1030-794	. . TANK UNIT ASSY, OUTER RH (LIQUIDOMETER CORP.)(SEE FIG. 35)	1	394-
	EA850-644	. . TANK UNIT ASSY, INBD (LIQUIDOMETER CORP.) RH (NORTH . . . AMERICAN DWG NO. 159-951013) (SEE FIGURE 34)	1	4-393
	EA1030-796	. . TANK UNIT ASSY, INNER RH (LIQUIDOMETER CORP.)(SEE FIG. 35)	1	394-
	AN6271-4-15	. . HOSE ASSEMBLY (SEE FIGURE 37).	1	
	AN6271-4-25 1-4	. . HOSE ASSEMBLY (SEE FIGURE 37).	1	
	159-48054-1	. . CLIP ASSY, WCS FUEL QUANTITY GAGE FLOAT ARM ACCESS . . . . FITTING SUPPORT LH (SEE FIGURE 29)	1	394-
	159-48054-2	. . CLIP ASSY, WCS FUEL QUANTITY GAGE FLOAT ARM ACCESS . . . . FITTING SUPPORT RH (SEE FIGURE 29)	1	394-
	174-48177	. . GASKET, CENTER SECTION WING FUEL VENT INTERCONNECTOR . . . (SEE FIGURE 27)	2	394-
	174-48182	. . GASKET, CENTER SECTION WING FUEL FILLING INTERCONNECTOR . (SEE FIGURE 27)	2	394-

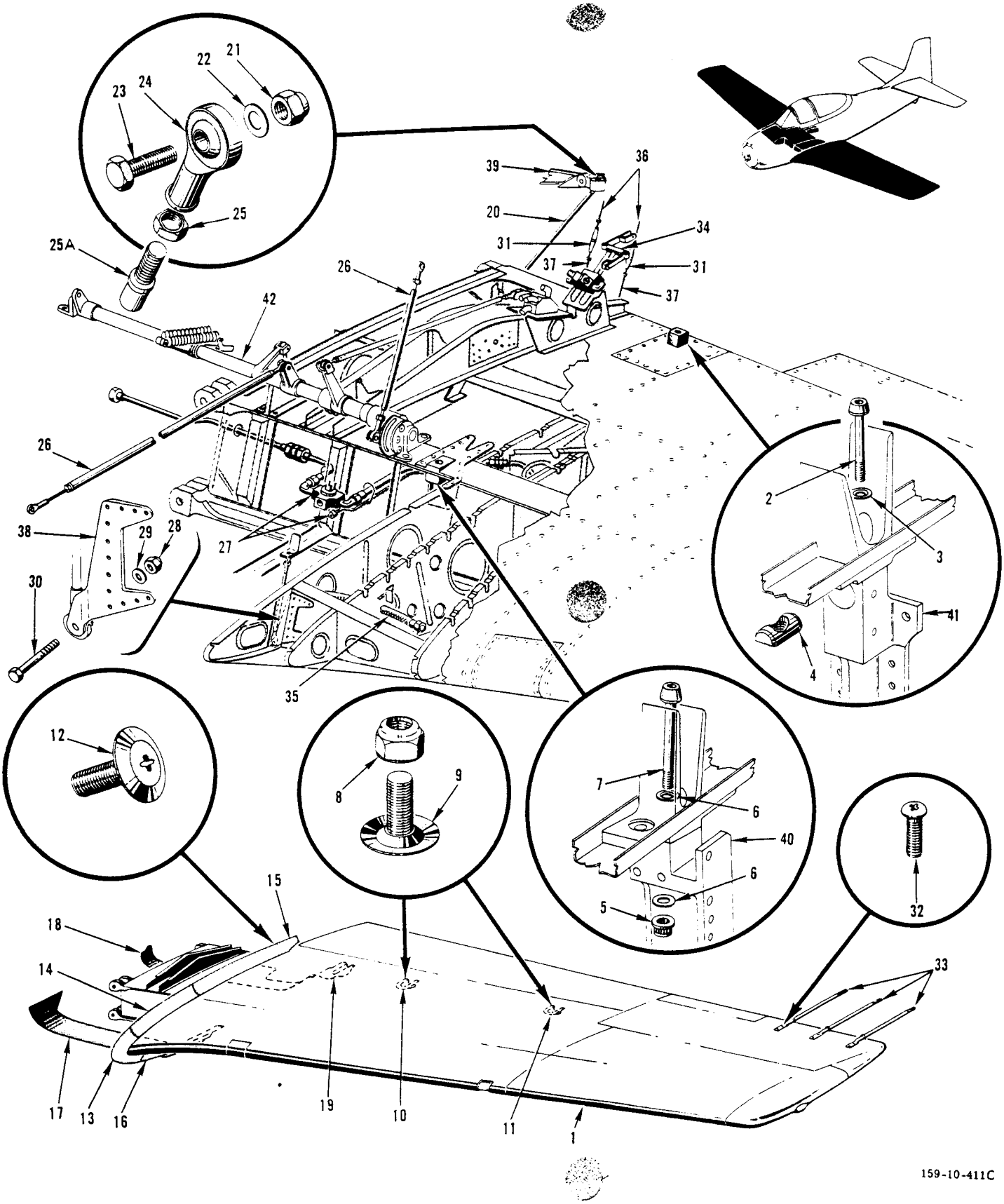


FIGURE 3 - COMPLETE WING

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
3	159-10001			WING INSTL, Complete (see figure 1 for next assembly)	NP	
-1	159-10010			. WING ASSY, Complete (see figure 4 for detail breakdown)	1	
				ATTACHING PARTS		
-2	NAS147-36			. BOLT, Internal wrenching steel 7/16-20 (magnetic inspected)	2	
-3	NAS143-70			. WASHER, X4130 or equiv 125,000 to 145,000 PSI countersunk	AR	
-4	32-1452-070			. NUT, Barrel (magnetic inspected)(Elastic Stop Nut Corp.)	2	
-5	EB080			. NUT (Magnetic Inspected) (Elastic Stop Nut Corporation)	2	
-6	AN960-816			. WASHER	AR	
-7	NAS148-70			. BOLT, Internal wrenching steel 1/2-20 (magnetic inspected)	2	
		---*---				
-8	AN365-832			. NUT	16	
-9	SP1561-832-11			. SCREW ASSEMBLY, Flat head (Shakeproof Inc.)	16	
-10	159-10008-1			. FAIRING ASSEMBLY, Flap center hinge bracket LH	1	
	159-10008-2			. FAIRING ASSEMBLY, Flap center hinge bracket RH	1	
-11	159-10009-1			. FAIRING ASSEMBLY, Flap outboard hinge bracket LH	1	
	159-10009-2			. FAIRING ASSEMBLY, Flap outboard hinge bracket RH	1	
-12	SP1561-832-13			. SCREW ASSEMBLY, Flat head (Shakeproof Inc.)	212	
-13	159-10004-1			. FILLET ASSEMBLY, Wing to fuselage leading edge LH	1	
	159-10004-2			. FILLET ASSEMBLY, Wing to fuselage leading edge RH	1	
-14	159-10011-1			. FILLET, Wing to fuselage upper forward intermediate LH	1	
	159-10011-2			. FILLET, Wing to fuselage upper forward intermediate RH	1	
-15	159-10003-1			. FILLET, Wing to fuselage upper aft intermediate LH	1	
	159-10003-2			. FILLET, Wing to fuselage upper aft intermediate RH	1	
-16	159-10012-1			. FILLET, Wing to fuselage lower intermediate LH	1	4-393
	159-10012-2			. FILLET,Wing to fuselage lower intermediate RH	1	4-393
	159-10012-3			. FILLET, Wing to fuselage lower intermediate LH	1	394-
	159-10012-4			. FILLET, Wing to fuselage lower intermediate RH	1	394-
-17	174-10006-3	*		. FAIRING ASSY, Wing front spar to fuselage lower	1	
	174-10006-5	*		. FAIRING ASSY, Wing front spar to fuselage lower	1	
	174-10006-7	*		. FAIRING ASSY, Wing front spar to fuselage lower	1	
-18	159-10007			. FAIRING ASSY, Wing rear spar to fuselage lower	1	
-19	159-10005-1			. FILLET ASSY, Wing to fuselage lower aft LH	1	
	159-10005-2			. FILLET ASSY, Wing to fuselage lower aft RH	1	
-20	159-52311			. TUBE ASSY, Aileron control sector to stick push-pull	1	
				ATTACHING PARTS		
-21	AN310-4			. NUT	2	
-22	AN960D416			. WASHER	3	
-23	AN174-20			. BOLT	1	
	AN174-14			. BOLT	1	
		---*---				
-24	RE4F5			. . END, Aircraft type ball bearing rod (Fafnir Bearing Co.)	2	
-25	AN316-5R			. . NUT	2	
-25A	159-52220-11			. . TUBE END, Elevator control threaded	2	
-26	159-33019			. ALIGHTING GEAR CONTROL SYSTEM INSTL, Wing to fuselage (see figure 208 for detail breakdown)	NP	
-27	159-48010			. FUEL SYSTEM EQUIPMENT INSTL, Wing and fuselage joining (see figure 26 for detail breakdown)	NP	4-393
-28	AN365-624			. NUT	2	
-29	AN960D616			. WASHER	2	
-30	AN6-13A			. BOLT	2	
-31	AN155-8L			. BARREL	2	
-32	AN526-632R9			. SCREW	12	
-33	AN/ASA3			. DISCHARGER, Static (GFAE)	6	4-268
	5019			. DISCHARGER, Static (AN/ASA3)(The Forest Electric Co.)	6	269-
-34	159-58023			. HYDRAULIC EQUIPMENT INSTL, Mating wing to fuselage (see figure 139 for brake pressure lines, figure 38 for landing gear up and down lines, and figure 39 for wing flap lines)	NP	
-35	174-51801-20			. LINE ASSY, Pitot tube to drain sump airspeed pressure (section 4) (RH only)	1	394-
	3H2-24-12			. HOSE (North American)	1	
	AN737-66			. CLAMP	2	
-36	159-52519			CABLE ASSY, Aileron trim tab outboard control (see fig. 64)	Ref	
-37	159-52520			CABLE ASSY, Aileron trim tab inboard control (see fig. 36)	Ref	
-38	159-13015-1			FITTING, WCS fus leading edge attg LH (see fig. 19)	Ref	
-39	159-52110			YOKE ASSY, Control stick ail. torque tube (see fig. 112)	Ref	
-40	159-13013			FITTING, WCS fuselage front spar attg (see fig. 19)	Ref	
-41	159-13014			FITTING, WCS fuselage rear spar attg (see fig. 20)	Ref	
-42	159-33015			ALIGHTING GEAR MASTER CONTROL TORQUE SHAFT (see fig. 206)	Ref	

* 174-10006-3 together with 174-10006-5 and 174-10006-7 supersedes 159-10006.

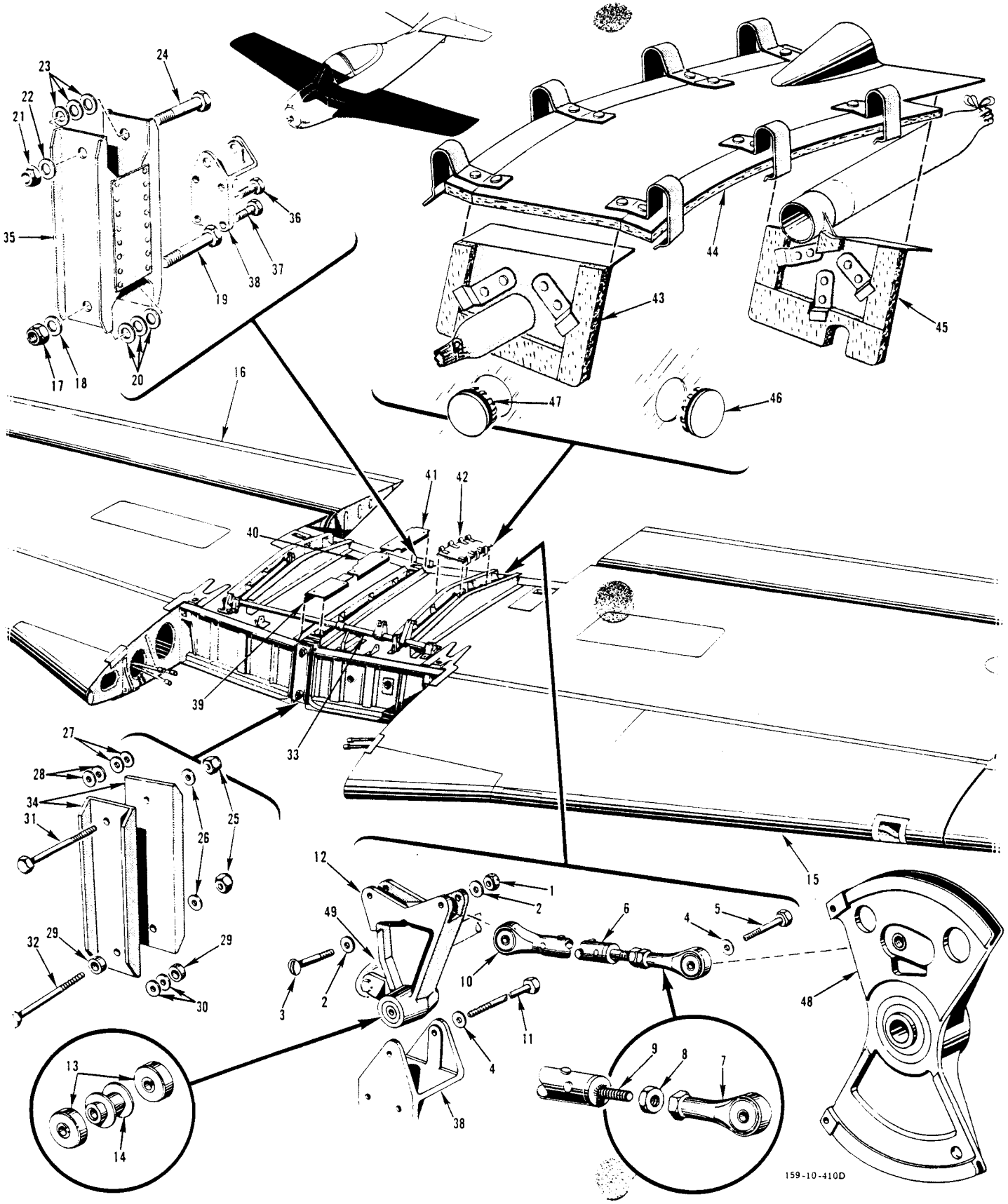


FIGURE 4 - COMPLETE WING ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
4	159-10010		WING ASSEMBLY, Complete (see figure 3 for next assembly). . . .	Ref	
-1	AN320-4		. NUT.	2	
-2	AN960D416L		. WASHER	4	
-3	AN24-20		. BOLT	2	
-4	AN960D416		. WASHER	3	
-5	AN174H12A		. BOLT	2	
-6	159-52312		. TUBE ASSEMBLY, Aileron control sector interconnector	2	
-7	RE4F6		. . ROD END (Fafnir Bearing Company).	1	
-8	AN316-5R		. . NUT	1	
	159-52312-3		. . TUBE ASSY, Aileron control sector interconnector	1	
-9	159-52220-11		. . . TUBE END, Elevator control threaded	1	
-10	RE4F6		. . . ROD END (Fafnir Bearing Company)	1	
-11	AN4H27A		. BOLT	1	
-12	159-52335		. BELLCRANK ASSEMBLY, Aileron control.	1	
-13	AN210K4		. . BEARING	2	
-14	4S7-5-1.032		. . SPACER, Flanged dual bearing (North American)	1	
-15	159-14602-1		. PANEL ASSEMBLY, Wing complete LH (see figure 5 for detail breakdown) .	1	
-16	159-14602-2		. PANEL ASSEMBLY, Wing complete RH (see figure 5 for detail breakdown) .	1	
	ATTACHING PARTS				
-17	AN365-1018		. NUT.	1	
-18	AN960-1016		. WASHER	3	
-19	AN180-32A		. BOLT	1	
-20	AN960D1016L		. WASHER	AR	
-21	AN365-1216		. NUT.	1	
-22	AN960-1216		. WASHER	2	
-23	AN960D1216L		. WASHER	AR	
-24	AN182-33A		. BOLT	1	
-25	AN365-1414		. NUT.	2	
-26	AN960-1416		. WASHER	2	
-27	AN960-1416		. WASHER	5	
-28	AN960D1416L		. WASHER	2	
-29	159-13345		. BUSHING, Wing station 0 front spar lower	1	
-30	AN960-1416		. WASHER	1	
	AN960D1416L		. WASHER	1	
-31	AN184-60A		. BOLT	1	
-32	AN184-63A		. BOLT	1	
	---*---				
-33	159-33015		. TORQUE SHAFT INSTALLATION, Alighting gear master control . . (see figure 20 for detail breakdown)	NP	
-34	159-13204		. STIFFENER, Wing center section station 0 front spar.	2	
-35	159-13206	*	. STIFFENER ASSEMBLY, Wing center section sta 0 rear spar . .	1	
-36	AN3-7A		. . BOLT.	2	
-37	AN3-6A		. . BOLT.	2	
-38	159-52322		. SUPPORT, Aileron control bellcrank.	1	
-39	159-13356		. COVER ASSEMBLY, Wing LH to RH joining forward.	1	
-40	159-13357		. COVER ASSEMBLY, Wing LH to RH joining intermediate	1	
-41	159-13358		. COVER ASSEMBLY, Wing LH to RH joining aft.	1	
-42	159-73026-1		. COVER ASSY, Main LG uplock hook opening fumes excluder LH. .	1	81-
	159-73026-2		. COVER ASSY, Main LG uplock hook opening fumes excluder RH. .	1	81-
	159-73022-1		. SEAL INSTL, Main LG uplock hook opening fumes LH	NP	4-80
	159-73022-2		. SEAL INSTL, Main LG uplock hook opening fumes RH	NP	4-80
-43	159-73020-1		. . SEAL ASSY, Main LG uplock hook opening fumes excluder fwd LH	1	4-80
	159-73020-2		. . SEAL ASSY, Main LG uplock hook opening fumes excluder fwd RH	1	4-80
-44	159-73019-1		. . COVER ASSY, Main LG uplock hook opening fumes excluder LH	1	4-80
	159-73019-2		. . COVER ASSY, Main LG uplock hook opening fumes excluder RH	1	4-80
-45	159-73021-1		. . COVER ASSY, Main LG uplock hook opening fumes excluder. . aft LH	1	4-80
	159-73021-2		. . COVER ASSY, Main LG uplock hook opening fumes excluder. . aft RH	1	4-80
-46	9-48166		. . PLUG, Steel button (1 inch diameter hole) (United-Carr. . Fastener Corp.)	1	4-80
-47	9-51149		. . PLUG, Steel button (1 1/16 inch diameter hole)(United-. . Carr Fastener Corp.)	1	4-80
-48	159-52308		QUADRANT ASSEMBLY, Aileron control cable inboard (figure 36). .	Ref	
-49	159-52311		TUBE ASSEMBLY, Aileron control sector to stick push pull (fig.3)	Ref	

* 159-13206-11, when T.O. 01-60FGA-22 is incorporated, is equiv to 159-13206. 159-13206 should be used for future procurement.

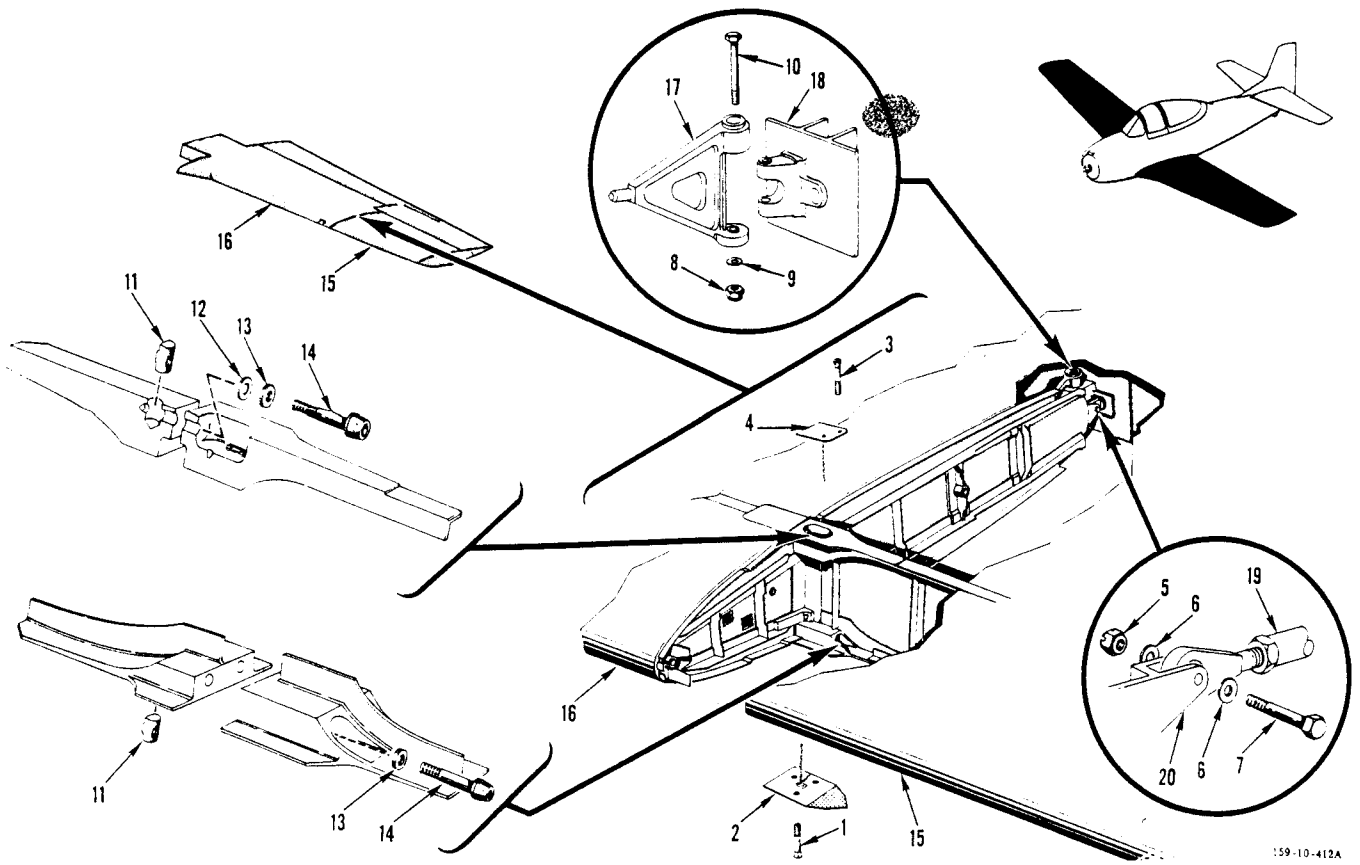


FIGURE 5 - LH AND RH WING PANEL ASSEMBLIES COMPLETE

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
5	159-14602-1	PANEL ASSY, Wing complete LH (see fig. 4 for next assembly)	Ref	
	159-14602-2	PANEL ASSY, Wing complete RH (see fig. 4 for next assembly)	Ref	
-1	AN509-10R36	. SCREW	3	
-2	159-14036-1	. COVER ASSEMBLY, WOP front spar lower attaching bolt LH	1	4-393
	159-14036-11	. COVER ASSEMBLY, WOP front spar lower attaching bolt LH	1	394-
	159-14036-2	. COVER ASSEMBLY, WOP front spar lower attaching bolt RH	1	4-393
	159-14036-12	. COVER ASSEMBLY, WOP front spar lower attaching bolt RH	1	394-
-3	AN509-10R31	. SCREW	2	
-4	156-14035-1	. COVER ASSEMBLY, WOP front spar upper attaching bolt LH	1	
	156-14035-2	. COVER ASSEMBLY, WOP front spar upper attaching bolt RH	1	
-5	AN310-3	. NUT	1	
-6	AN960D10	. WASHER	2	
-7	AN173-12	. BOLT	1	
-8	AN365-524	. NUT	1	
-9	AN960D516	. WASHER	1	
-10	159-16025	. BOLT, Aileron actuator special (supersedes AN175-50A)	1	
-11	32-1452-098	. NUT, Barrel (Elastic Stop Nut Corp.)	3	
-12	NAS143-9	. WASHER, 125,000 to 145,000 PSI plain type	AR	
-13	NAS143-9C	. WASHER, 125,000 to 145,000 PSI countersunk type	AR	
-14	NAS149-38	. BOLT, Internal wrenching steel 9/16-18 (magnetic inspected)	3	
-15	159-14601-201	. WING ASSY, Outer panel complete LH (see fig. 7 for breakdown)	1	4-268
	159-14601-301	. WING ASSY, Outer panel complete LH (see fig. 7 for breakdown)	1	269-393
	159-14601-202	. WING ASSY, Outer panel complete RH (see fig. 7 for breakdown)	1	4-393
	174-14601-1	. WING ASSY, Outer panel complete LH (see fig. 8 for breakdown)	1	394-593
	174-14601-101	. WING ASSY, Outer panel complete LH (see fig. 8 for breakdown)	1	594-
	174-14601-2	. WING ASSY, Outer panel complete RH (see fig. 8 for breakdown)	1	394-
-16	159-13601-1	. WING ASSY, Center section panel complete LH (see figure 13 for detail breakdown)	1	4-268
	159-13601-101	. WING ASSY, Center section panel complete LH (see figure 13 for detail breakdown)	1	269-393
	159-13601-2	. WING ASSY, Center section panel complete RH (see figure 13 for detail breakdown)	1	269-393
	174-13601-1	. WING ASSY, Center section panel complete LH((see figure 14 for detail breakdown)	1	394-
	174-13601-2	. WING ASSY, Center section panel complete RH (see figure 14 for detail breakdown)	1	394-
-17	159-52362-5	FORK ASSY, Aileron control aileron sta 7 7/16 (see figure 36)	Ref	
-18	159-16101	FITTING ASSY, Aileron aft inboard hinge (see figure 25)	Ref	
-19	159-16230	ARM ASSY, Ail. trim & boost tab operating mech (see fig. 25)	Ref	
-20	159-16236	SCREW ASSY, Aileron trim tab operating mech (see figure 13)	Ref	

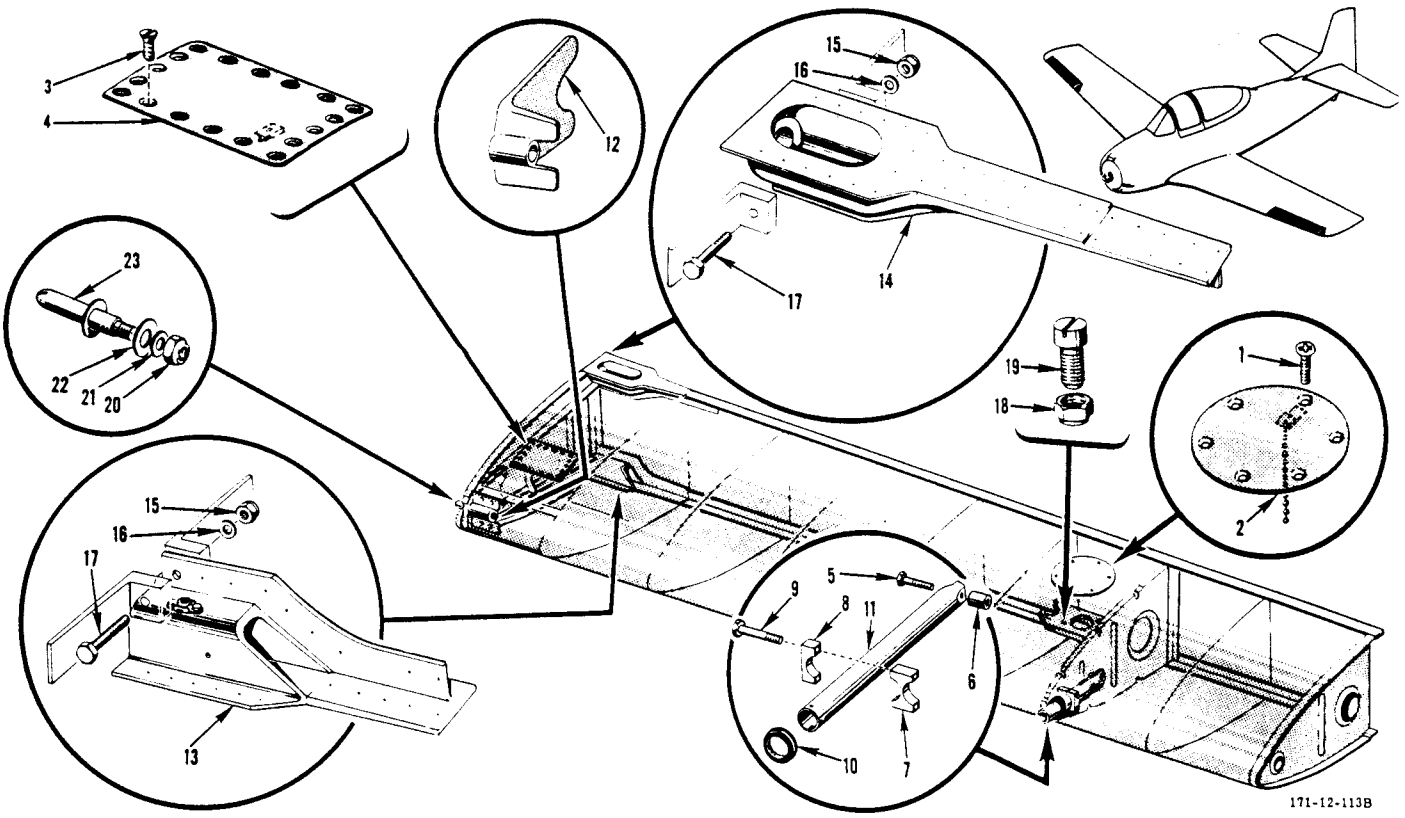


FIGURE 6 - WING OUTER PANEL LEADING EDGE STRUCTURAL EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
6	No Number	WING OUTER PANEL LEADING EDGE STRUCTURAL EQUIPMENT (see figures 9 and 10 for next assembly)	NP	
-1	AN509P10R7	. SCREW	6	
-2	159-14158	. COVER ASSEMBLY, WOP leading edge upper access hole	1	
-3	AN509-10R10	. SCREW	18	394-
-4	174-14134-1	. COVER ASSEMBLY, WOP leading edge upper access hole LH	1	394-
	174-14134-2	. COVER ASSEMBLY, WOP leading edge upper access hole RH	1	394-
	159-14006-101	. LEADING EDGE ASSEMBLY, WOP LH (supersedes 159-14006-1)	1	4-268
	159-14006-102	. LEADING EDGE ASSEMBLY, WOP RH (supersedes 159-14006-2)	1	4-393
	159-14006-201	. LEADING EDGE ASSEMBLY, Wing outer panel LH	1	269-393
	174-14006-1	. LEADING EDGE ASSEMBLY, Wing outer panel LH	1	394-593
	174-14006-101	. LEADING EDGE ASSEMBLY, Wing outer panel LH	1	594-
	174-14006-2	. LEADING EDGE ASSEMBLY, Wing outer panel RH	1	394-
-5	AN3-12A	. . BOLT (RH only)	1	
-6	159-51028-7	. . BLOCK, Airspeed pitot tube aft support (RH only)	1	
-7	159-51028-3	. . BLOCK, Airspeed pitot tube forward support (RH only)	1	
-8	159-51028-5	. . BLOCK, Airspeed pitot tube forward support (RH only)	1	
-9	AN3-24A	. . BOLT (RH only)	2	
-10	159-14006-25	. . SEAL, Wing outer panel leading edge (RH only)	1	4-393
	174-14006-25	. . SEAL, Wing outer panel leading edge (RH only)	1	394-
-11	159-51076	. . SUPPORT, Airspeed pitot tube (replaces 159-51029) (RH only)	1	
-12	159-14021-3	. . FITTING, WOP to wing center section leading edge	1	
	159-14004-1	. . SPAR ASSEMBLY, Wing outer panel front LH	1	4-393
	159-14004-2	. . SPAR ASSEMBLY, Wing outer panel front RH	1	4-393
	174-14004-1	. . SPAR ASSEMBLY, Wing outer panel front LH	1	394-
	174-14004-2	. . SPAR ASSEMBLY, Wing outer panel front RH	1	394-
-13	159-14012-1	. . . FITTING ASSY, Wing outer panel front spar lower LH	1	
	159-14012-2	. . . FITTING ASSY, Wing outer panel front spar lower RH	1	
-14	159-14011-1	. . . FITTING ASSY, Wing outer panel front spar upper LH	1	
	159-14011-2	. . . FITTING ASSY, Wing outer panel front spar upper RH	1	
-15	AN365-428	. . . NUT	2	
-16	AN960D416	. . . WASHER	2	
-17	AN4-15A	. . . BOLT	2	
	159-51018	. . SUPPORT ASSY, Remote compass transmitter (LH only)	1	
-18	AN365B632	. . . NUT	2	
-19	159-51082	. . . STUD, Gyro compass transmitter aligning	2	
-20	AN364-428	. NUT	1	
-21	AN960D416	. WASHER	1	
-22	2W1-24-22-5	. WASHER, Plain (North American)	AR	
	2W1-24-22-10	. WASHER, Plain (North American)	AR	
-23	159-14028	. PIN, WOP to center section forward and aft shear	1	

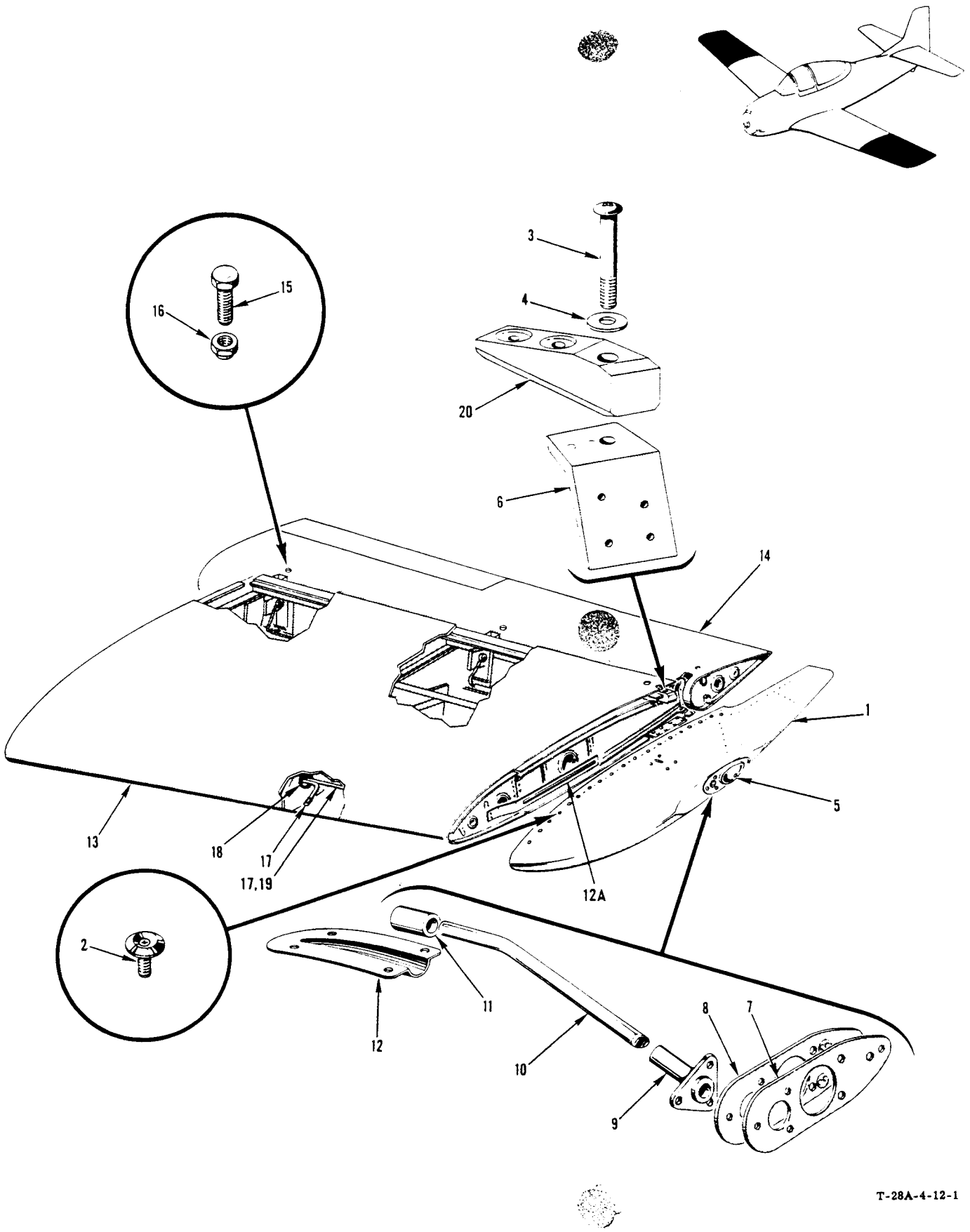


FIGURE 7 - OUTER PANEL WING ASSEMBLIES COMPLETE

WING (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
7	159-14601-201		WING ASSEMBLY, Outer panel complete LH (supersedes 159-14601-101) (see figure 5 for next assembly)	Ref	4-268
	159-14601-202		WING ASSEMBLY, Outer panel complete RH (supersedes 159-14601-102) (see figure 5 for next assembly)	Ref	4-393
	159-14601-301		WING ASSEMBLY, Outer panel complete LH (see figure 5 for next assembly)	Ref	269-393
-1	159-14298-101	*1	. TIP ASSEMBLY, Wing LH	1	81-268
	159-14298-102	*1	. TIP ASSEMBLY, Wing RH	1	81-393
	171-14300	*2	. TIP ASSEMBLY, Wing LH (plastic)	1	4-393
	159-14298-1	*1	. TIP ASSEMBLY, Wing LH	1	4-80
	159-14298-2	*1	. TIP ASSEMBLY, Wing RH	1	4-80
	NOTE: Include 159-14239-1 & -2 shims for airplanes AF49-1492 thru 49-1498				
	ATTACHING PARTS				
-2	SP1561-832-9		. SCREW ASSEMBLY, Flat head (Shakeproof Inc)	44	4-393
-3	NAS222-27	*2	. SCREW, Brazier head Phillips recess alloy steel 1/4-28	1	4-393
-4	2W1-20-26-62	*2	. WASHER, Plain (North American)	1	4-393
	---*---				
-5	159-54038-1		. . ELECTRICAL EQUIPMENT INSTALLATION, Wing tip LH (see figure 40 for detail breakdown)	NP	4-393
	159-54038-2		. . ELECTRICAL EQUIPMENT INSTALLATION, Wing tip RH (see figure 40 for detail breakdown)	NP	4-393
-6	159-14295-1	*1	. . FITTING ASSEMBLY, Wing tip upper attaching LH	1	61-268
	159-14295-2		. . FITTING ASSEMBLY, Wing tip upper attaching RH	1	61-393
	171-14295	*2	. . FITTING ASSEMBLY, Wing tip upper attaching LH	1	4-393
-7	159-54379-7		. . PLATE ASSY, Wing tip elec equipment mounting (LH only)	1	81-268
-8	159-54379-5		. . PLATE ASSY, Wing tip elec equipment mounting (LH only)	1	81-268
	159-54376		. . SHIM, Electrical wing tip navigation light indicator (RH only)	1	81-393
-9	159-54378	*2	. . SEAL, Electrical wing tip navigation light indicator	1	4-393
-10	159-54377	*2	. . ROD, Electrical wing tip navigation light indicator	1	4-393
-11	159-14298-23		. . SEAL, Wing tip navigation light indicator rod (RH side)	1	81-393
	159-14298-23		. . SEAL, Wing tip navigation light indicator rod (LH side)	1	81-268
	171-14300-23		. . SEAL, Wing tip navigation light indicator rod (LH side)	1	269-393
-12	159-54449		. . RETAINER, Elec wing tip navigation light indicator (used on 159-14298-101 and -102)	1	81-393
	171-54080	*2	. . RETAINER, Elec wing tip navigation light indicator LH (used on 171-14300)	1	4-393
-12A	171-71170	*2	. . ANTENNA ASSY, VHF omni range complete	1	4-393
	171-71165	*2	. . . ELEMENT, VHF omni range radio antenna exciter	1	4-393
	UG58/U	*2	. . . RECEPTACLE, (American Phenolic Corp)	1	4-393
	171-71167	*2	. . . ELEMENT, VHF omni range radio antenna feed	1	4-393
-13	159-14001-201		. WING ASSY, Outer panel LH (see fig. 9 for breakdown)	1	61-268
	159-14001-202		. WING ASSY, Outer panel RH (see fig. 9 for breakdown)	1	61-393
	159-14001-301		. WING ASSY, Outer panel LH (see fig. 9 for breakdown)	1	269-393
	159-14001-101		. WING ASSY, Outer panel LH (supersedes 159-14001-1) (see figure 9 for breakdown)	1	4-60
	159-14001-102		. WING ASSY, Outer panel RH (supersedes 159-14001-2) (see figure 9 for breakdown)	1	4-60
-14	159-16001-201		. AILERON ASSY, Complete (see fig. 25 for breakdown)	1	4-60
	159-16301		. AILERON ASSY, Complete (supersedes 159-16001-201) (see figure 25 for breakdown)	1	61-393
	ATTACHING PARTS				
-15	AN4-17A		. BOLT	3	4-393
-16	AN365-428		. NUT	3	4-393
	---*---				
	159-51014		. INSTRUMENT EQUIPMENT INSTALLATION, Left outer wing (see figure 34 for breakdown)	NP	4-393
	159-51114		. INSTRUMENT EQUIPMENT INSTALLATION, Right outer wing (see figure 34 for breakdown)	NP	4-393
	159-54014-1		. ELECTRICAL EQUIPMENT INSTALLATION, Outer wing LH (see figure 40 for breakdown)	NP	4-393
	159-54014-2		. ELECTRICAL EQUIPMENT INSTALLATION, Outer wing RH (see figure 40 for breakdown)	NP	4-393
	171-71021		. CABLE INSTL, Radio receiver LH WOP antenna	NP	269-393
	171-71062		. . WIRING DIAGRAM, Radio AN/ARN14 and AN/ARN18 antenna cables wing outer panel	NP	269-393
-17	RG8/U		. . . CABLE, Co-axial	.9 1/4 ft	269-393
	UG23C/U		. . JACK, (American Phenolic Corp)	1	269-393
	UG21C/U		. . PLUG, (American Phenolic Corp)	3	269-393
-18	295134-28A		. . GROMMET, (United-Carr)	1	269-393
-19	174-71050-10	*2	. . CABLE ASSY, ARN/14 radio antenna	1	4-268
	174-71050-1	*2	. . . CABLE, Co-axial (RG8A/U 84 inches)	1	4-268
	UG21D/U	*2	. . . PLUG, (American Phenolic Corp)	2	4-268
-20	159-14297		FITTING, Wing outer panel tip support (see figure 9)	Ref	

*1 Parts marked thus not used on aircraft modified in accordance with T. O. 1T-28-50.
*2 Parts marked thus used on aircraft modified in accordance with T. O. 1T-28-50.

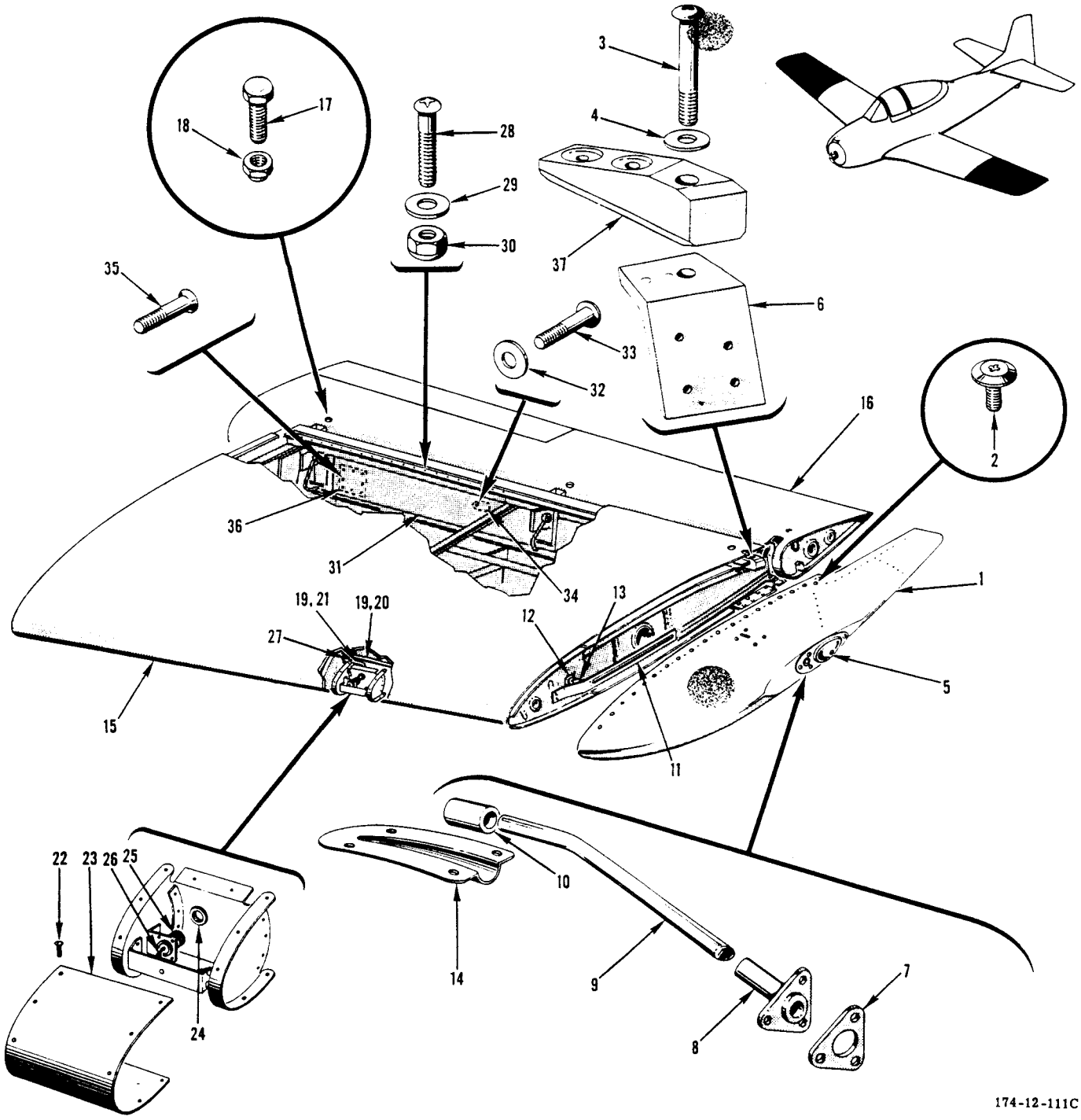


FIGURE 8 - OUTER PANEL WING ASSEMBLIES COMPLETE

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
8	174-14601-1	WING ASSEMBLY, Outer panel complete LH (see figure 5 for next assembly)	Ref	394-593
	174-14601-101	WING ASSEMBLY, Outer panel complete LH (see figure 5 for next assembly)	Ref	594-
	174-14601-2	WING ASSEMBLY, Outer panel complete RH (see figure 5 for next assembly)	Ref	394-
-1	171-14300	. TIP ASSEMBLY, Wing LH (plastic)	1	394-593
	171-14300-101	. TIP ASSEMBLY, Wing LH (plastic)	1	594-
	159-14298-102	. TIP ASSEMBLY, Wing RH	1	394-

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
8			ATTACHING PARTS		
-2	SP1561-832-10	.	SCREW ASSEMBLY, Flat head (Shakeproof)	44	394-
-3	NAS222-27	.	SCREW, Brazier head Phillips recess alloy steel 1/4-28 . . .	1	394-
-4	2W1-16-26-62	.	WASHER, Plain (North American)	1	394-
		---*---			
-5	159-54038-1	. .	ELECTRICAL EQUIPMENT INSTALLATION, Wing tip LH . . . . . (see figure 41 for detail breakdown)	NP	394-
	159-54038-2	. .	ELECTRICAL EQUIPMENT INSTALLATION, Wing tip RH . . . . . (see figure 41 for detail breakdown)	NP	394-
-6	171-14295	. .	FITTING ASSEMBLY, Wing tip upper attaching LH	1	394-
	159-14295-2	. .	FITTING ASSEMBLY, Wing tip upper attaching RH	1	394-
-7	159-54376	. .	SHIM, Elec wing tip naviagtion light ind (RH only)	1	394-
-8	159-54378	. .	SEAL, Electrical wing tip navigation light indicator . . .	1	394-
-9	159-54377	. .	ROD, Electrical wing tip navigation light indicator . . .	1	394-
-10	171-14300-23	. .	SEAL, Wing tip navigation light indicator rod (LH side) .	1	394-
	159-14298-23	. .	SEAL, Wing tip navigation light indicator rod (RH side) .	1	394-
	171-71170 *1	. .	ANTENNA ASSY, VHF omni range complete	1	394-
-11	171-71165	. . .	ELEMENT, VHF omni range radio antenna exciter	1	394-
-12	UG58/U	. . .	RECEPTACLE (American Phenolic)	1	394-
-13	171-71167	. . .	ELEMENT, VHF Omni range radio antenna feed	1	394-
-14	171-54080	. .	RETAINER, Elec wing tip navigation light indicator LH . .	1	394-
	159-54449	. .	RETAINER, Elec wing tip navigation light indicator RH . .	1	394-
-15	174-14001-1	.	WING ASSY, Outer panel RH (see fig. 10 for breakdown)	1	394-593
	174-14001-201	.	WING ASSY, Outer panel LH (see fig. 10 for breakdown) . . . . (supersedes 174-14001-101 for future procurement)	1	594-
	174-14001-202	.	WING ASSY, Outer panel RH (see fig. 10 for breakdown) . . . . (supersedes 174-14001-2 for future procurement)	1	394-
-16	159-16301	.	AILERON ASSEMBLY, Complete (supersedes 159-16001-201) . . . . (see figure 25 for detail breakdown)	1	394-
			ATTACHING PARTS		
-17	AN4-17A	.	BOLT (magnetic inspected)	3	394-
-18	AN365-428	.	NUT	3	394-
		---*---			
	174-48200-1	.	FUEL SYSTEM EQUIPMENT INSTALLATION, WOP LH (see figure . . . 32 for detail breakdown)	NP	394-
	174-48200-2	.	FUEL SYSTEM EQUIPMENT INSTALLATION, WOP RH (see figure . . . 32 for detail breakdown)	NP	394-
	174-51014	.	INSTRUMENT EQUIPMENT INSTALLATION, Left outer wing . . . . . (see figure 35 for detail breakdown)	NP	394-
	174-51114	.	INSTRUMENT EQUIPMENT INSTALLATION, Right outer wing . . . . . (see figure 35 for detail breakdown)	NP	394-
	174-54014-1	.	ELECTRICAL EQUIPMENT INSTALLATION, Outer wing LH . . . . . (see figure 41 for detail breakdown)	NP	394-
	174-54014-2	.	ELECTRICAL EQUIPMENT INSTALLATION, Outer wing RH . . . . . (see figure -1 for detail breakdown)	NP	394-
	171-71021	.	CABLE INSTALLATION, Radio receiver LH WOP antenna	NP	394-
	171-71062	. .	WIRING DIAGRAM, Radio AN/ARN14 and AN/ARN18 antenna . . . cables wing outer panel	NP	394-843
-19	RG8/U	. . .	CABLE, Co-axial (American Phenolic)	11 ft.	394-843
	UG23C/U	. .	JACK (American Phenolic)	1	394-843
	UG21C/U	. .	PLUG (American Phenolic)	3	394-843
	174-71050-10	. .	CABLE ASSY, AN/ARN14 radio antenna	1	844-
-20	174-71050-1	. . .	CABLE, Co-axial (altered from Amer. Phenolic RG8A/U)(84 in.)	1	844-
	UG21D/U	. . .	PLUG, (American Phenolic)	2	844-
	174-71060-10	. .	CABLE ASSY, AN/ARN18 radio antenna	1	844-
-21	174-71060-1	. . .	CABLE, Co-axial (altered from Amer. Phenolic RG8A/U)(48 in.)	1	844-
	UG21D/U	. . .	PLUG, (American Phenolic)	1	844-
	UG23D/U	. . .	JACK, (American Phenolic)	1	844-
-22	AN507B8R10	. .	SCREW	16	594-
-23	171-71181	. .	DOOR ASSEMBLY, Radio glide path antenna access	1	594-
	171-71180	. .	ANTENNA ASSEMBLY, Radio glide path	1	594-
-24	295134-12A	. . .	GROMMET, (United-Carr)	1	594-
-25	UG58/U	. . .	RECEPTACLE, Type N (Industrial Products)	1	594-
-26	171-71175	. . .	ELEMENT, Radio glide path antenna feed	1	594-
-27	295134-28A	. .	GROMMET, (United-Carr)	1	594-
	174-14101-1	.	PLATE ASSY, WOP aileron seal inboard backing LH	1	394-
	174-14101-2	.	PLATE ASSY, WOP aileron seal inboard backing RH	1	394-
			ATTACHING PARTS		
-28	AN520-10R8	.	SCREW	27	394-
	AN526-1032R8	.	SCREW	21	394-
-29	AN960D10	.	WASHER	42	394-
-30	26C02	.	CAPNUT, Self locking (Nutt-Shel)	21	394-
		---*---			
-31	174-14101-17	. .	SEAL, WOP aileron seal inboard backing plate	1	394-
-32	AN960D8L	. .	WASHER	1	394-
-33	NAS220BZP7	. .	SCREW, Brazier head Phillips recess bronze 7/16-20	1	394-
-34	130-12083	. .	COVER, WOP 65 per cent rear spar bolt inspection hole . .	1	394-
-35	AN507-1032R8	. .	SCREW	6	394-
-36	174-14135-1	. .	COVER, WOP aileron seal backing plate fuel vent . . . . . connection access hole LH	1	394-
	174-14135-2	. .	COVER, WOP aileron seal backing plate fuel vent . . . . . connection access hole RH	1	394-
-37	159-14297		FITTING, Wing outer panel tip support (see figure 10)	Ref	

*1 Refer to T. O. 1T-28-50.

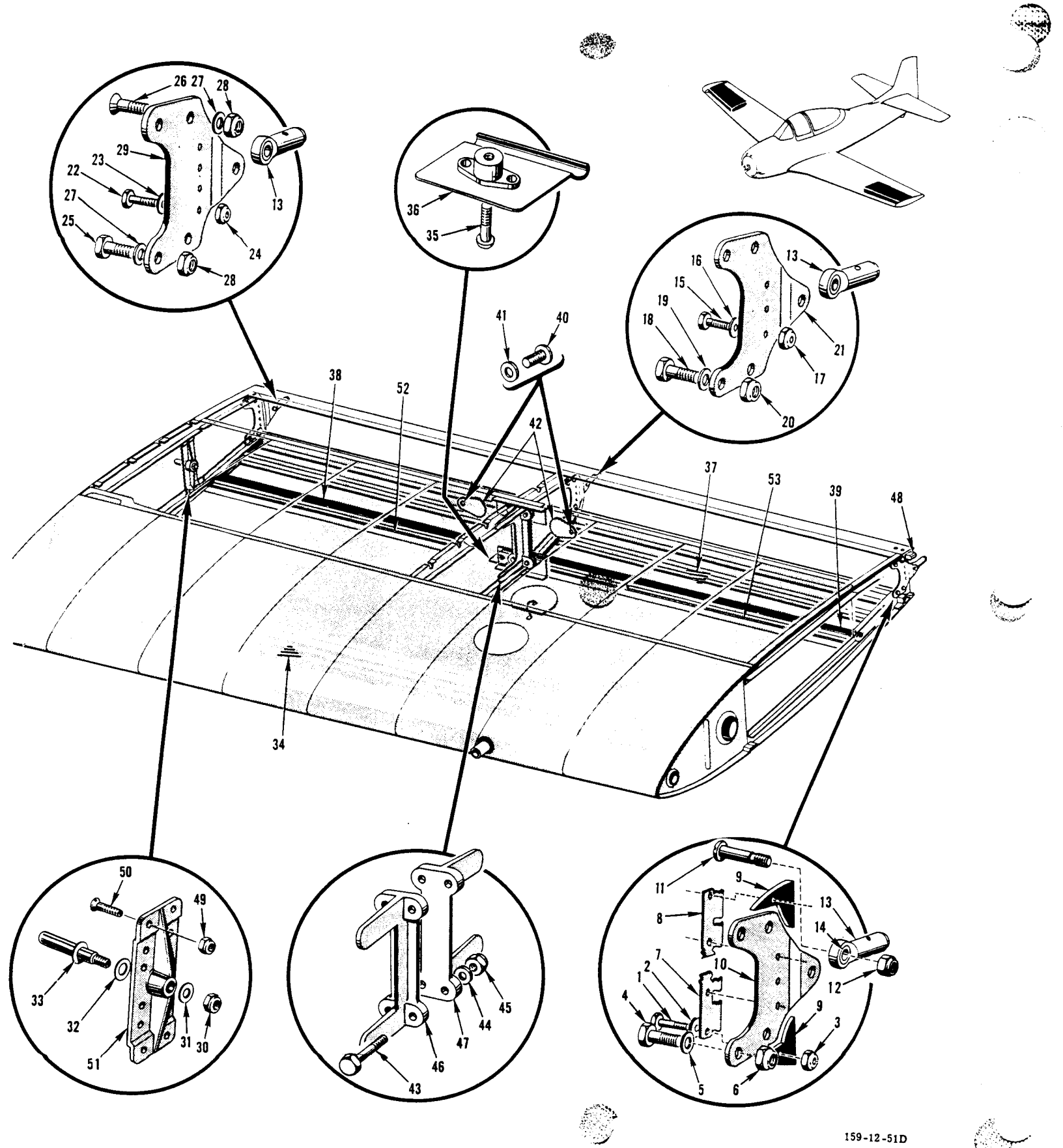
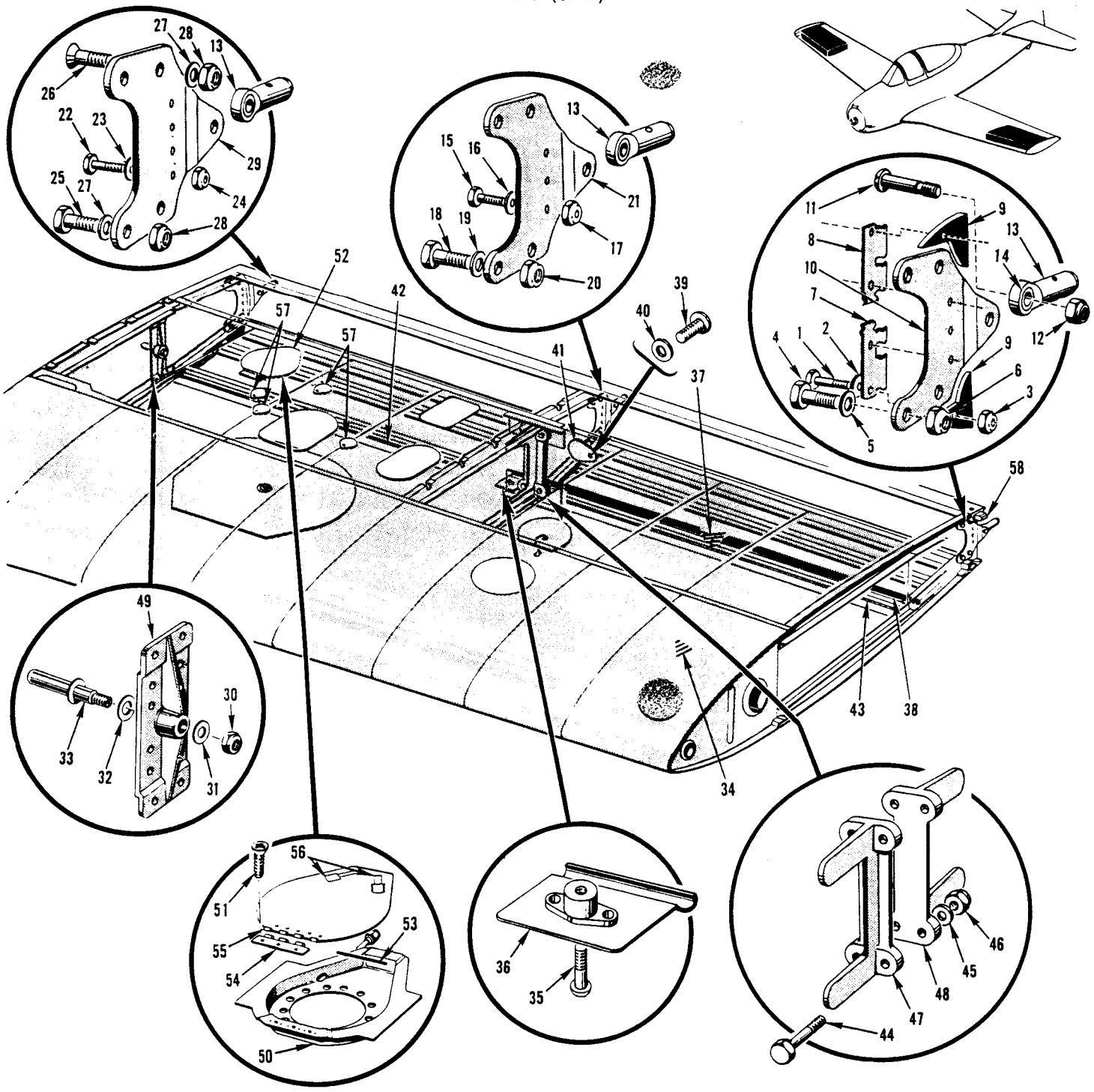


FIGURE 9 - OUTER PANEL WING ASSEMBLIES

WING (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
9	159-14001-101	WING ASSEMBLY, Outer panel LH (supersedes 159-14001-1). . . . . (see figure 7 for next assembly)	Ref	4-60
	159-14001-102	WING ASSEMBLY, Outer panel RH (supersedes 159-14001-2). . . . . (see figure 7 for next assembly)	Ref	4-60
	159-14001-201	WING ASSEMBLY, Outer panel LH (see fig. 7 for next assembly). .	Ref	61-268
	159-14001-202	WING ASSEMBLY, Outer panel RH (see fig. 7 for next assembly). .	Ref	61-393
	159-14001-301	WING ASSEMBLY, Outer panel LH (see fig. 7 for next assembly). .	Ref	269-393
	No Number	. WING OUTER PANEL COVERS AND DOORS (see figure 11 for . . . . detail breakdown)	NP	4-393
-1	AN3-5A	. BOLT, (Magnetic inspected)	4	4-393
-2	AN960D10	. WASHER	2	4-393
-3	AN365-1032	. NUT.	2	4-393
-4	AN4-6A	. BOLT (Magnetic inspected).	4	4-393
-5	AN960D416	. WASHER	4	4-393
-6	AN365-428	. NUT.	4	4-393
-7	159-14111-1	. RETAINER, WOP aileron seal at outboard hinge rib lower LH .	1	4-393
	159-14111-2	. RETAINER, WOP aileron seal at outboard hinge rib lower RH .	1	4-393
-8	159-14107-1	. RETAINER, WOP aileron seal at outboard hinge upper LH. . . .	1	4-393
	159-14107-2	. RETAINER, WOP aileron seat at outboard hinge upper RH. . . .	1	4-393
-9	159-14106	. SHIM, Aileron seal at outboard hinge rib.	2	4-393
-10	159-16113	. FITTING, Aileron forward outboard hinge.	1	4-393
-11	AN24-22	. BOLT, (Magnetic inspected)	3	4-393
-12	AN320-4	. NUT (Magnetic inspected)	3	4-393
-13	159-14025	. FITTING ASSEMBLY, Hinge bearing.	3	4-393
-14	AN207D4	. . BEARING	1	4-393
-15	AN3-5A	. BOLT (Magnetic inspected).	3	4-393
-16	AN960D10	. WASHER	3	4-393
-17	AN365-1032	. NUT (Magnetic inspected)	3	4-393
-18	AN4-7A	. BOLT (Magnetic inspected).	4	4-393
-19	AN960D416	. WASHER	4	4-393
-20	AN365-428	. NUT (Magnetic inspected)	4	4-393
-21	159-16112	. FITTING, Aileron forward center hinge	1	4-393
-22	AN3-5A	. BOLT (Magnetic inspected).	4	4-393
-23	AN960D10	. WASHER	4	4-393
-24	AN365-1032	. NUT	4	4-393
-25	AN4-7A	. BOLT (Magnetic inspected).	2	4-393
-26	AN509-416R15	. SCREW (Magnetic inspected)	2	4-393
-27	AN960D416	. WASHER	4	4-393
-28	AN365-428	. NUT	4	4-393
-29	159-16111	. FITTING, Aileron forward inboard hinge	1	4-393
-30	AN364-428	. NUT	1	4-393
-31	AN960D416	. WASHER	1	4-393
-32	2W1-24-22-5	. WASHER, Plain (North American)	AR	4-393
	2W1-24-22-10	. WASHER, Plain (North American)	AR	4-393
-33	159-14028	. PIN, WOP to center section forward and aft shear	1	4-393
-34	No Number	. WING OUTER PANEL LEADING EDGE STRUCTURAL EQUIPMENT . . . . . (see figure 6 for detail breakdown)	NP	4-393
-35	NAS221BZP9	. SCREW, Brazier head Phillips recess bronze 10-32	1	4-393
-36	159-13335-1	. STOP ASSEMBLY, WCS access door hinge pin	1	4-393
-37	159-14007-101	. PANEL ASSEMBLY, Wing outer intermediate LH (supersedes . . . 159-14007-1)	1	4-60
	159-14007-102	. PANEL ASSEMBLY, Wing outer intermediate RH (supersedes . . . 159-14007-2)	1	4-60
	159-14007-201	. PANEL ASSEMBLY, Wing outer intermediate LH	1	61-393
	159-14007-202	. PANEL ASSEMBLY, Wing outer intermediate RH	1	61-393
	159-14101-1	. . PLATE ASSY, WOP aileron seal inboard backing LH	1	4-393
	159-14101-2	. . PLATE ASSY, WOP aileron seal inboard backing RH..	1	4-393
	159-14102-1	. . PLATE ASSY, WOP aileron seal backing outboard LH.	1	4-393
	159-14102-2	. . PLATE ASSY, WOP aileron seal backing outboard RH.	1	4-393
-38	159-14101-17	. . . SEAL, WOP aileron seal inboard backing plate	1	4-393
-39	159-14102-17	. . . SEAL, WOP aileron seal backing outboard plate.	1	4-393
-40	NAS220BZP7	. . . SCREW, Brazier head Phillips recess bronze 7/16-20 . .	1	4-393
-41	AN960D8L	. . . WASHER	1	4-393
-42	130-12083	. . . COVER, WOP 65% rear spar bolt inspection hole.	1	4-393
	159-14005-1	. . SPAR ASSEMBLY, Wing outer panel rear LH	1	4-393
	159-14005-2	. . SPAR ASSEMBLY, Wing outer panel rear RH	1	4-393
-43	AN5-13A	. . . BOLT (Magnetic inspected).	4	4-393
-44	AN960D516	. . . WASHER	4	4-393
-45	AN365-524	. . . NUT (Magnetic inspected)	4	4-393
-46	159-14200	. . . FITTING, WOP aileron center hinge attaching forward .	1	4-393
-47	159-14201	. . . FITTING, WOP aileron center hinge attaching aft. . . .	1	4-393
-48	159-14297-1	. . FITTING, Wing outer panel tip support LH.	1	61-393
	159-14297-2	. . FITTING, Wing outer panel tip support RH.	1	61-393
	159-14155-1	. . RIB ASSEMBLY, WOP sta 154.125 intermediate LH	1	4-393
	159-14155-2	. . RIB ASSEMBLY, WOP sta 154.125 intermediate RH	1	4-393
-49	AN365-428	. . . NUT (Magnetic inspected)	4	4-393
-50	NAS222-13	. . . SCREW, Brazier head Phillips recess alloy steel 1/4-28 (magnetic inspected)	4	4-393
-51	159-13158-3	. . . FITTING, Wing center section to wing outer panel aft .	1	4-393
-52	159-14112-3	. . HINGE, WOP lower trailing edge door LH.	1	4-393
-53	159-14112-4	. . HINGE, WOP lower trailing edge door RH.	1	4-393

WING (Cont)



174-12-112A

FIGURE 10 - OUTER WING PANEL ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
10	174-14001-1	WING ASSY, Outer panel LH (see fig. 8 for next assembly)	Ref	394-593
	174-14001-101	WING ASSY, Outer panel LH (superseded by 174-14001-201. . . . . 174-14001-101 may be used inchangeably with 174-14001-201 until stock is exhausted (see fig. 8 for next assy) . . .	Ref	594-743
	174-14001-201	WING ASSY, Outer panel LH (supersedes 174-14001-101 for . . . . future procurement) (see fig. 8 for next assembly)	Ref	594-
	174-14001-2	WING ASSY, Outer panel RH (superseded by 174-14001-202. . . . . 174-14001-2 may be used interchangeably with 174-14001-202 until stock is exhausted (see figure 8 for next assembly)	Ref	394-743
	174-14001-202	WING ASSY, Outer panel RH (supersedes 174-14001-2 for future. . procurement) (see figure 8 for next assembly)	Ref	394-

WING (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
10	No Number	WING OUTER PANEL COVERS AND DOORS (see figure 11 for detail breakdown)	NP	394-
	174-48301-1	LINER INSTL, WOP fuel tank LH (see fig. 31 for breakdown)	NP	394-
	174-48301-2	LINER INSTL, WOP fuel tank RH (see fig. 31 for breakdown)	NP	394-
-1	AN3-5A	BOLT (Magnetic inspected)	4	394-
-2	AN960D10	WASHER	2	394-
-3	AN365-1032	NUT	2	394-
-4	AN4-6A	BOLT (Magnetic inspected)	4	394-
-5	AN960D416	WASHER	4	394-
-6	AN365-428	NUT	4	394-
-7	159-14111-1	RETAINER, WOP aileron seal at outboard hinge rib lower LH	1	394-
	159-14111-2	RETAINER, WOP aileron seal at outboard hinge rib lower RH	1	394-
-8	159-14107-1	RETAINER, WOP aileron seat at outboard hinge upper LH	1	394-
	159-14107-2	RETAINER, WOP aileron seal at outboard hinge upper RH	1	394-
-9	159-14106	SHIM, Aileron seat at outboard hinge rib	2	394-
-10	159-16113	FITTING, Aileron forward outboard hinge	1	394-
-11	AN24-22	BOLT, (Magnetic inspected)	3	394-
-12	AN320-4	NUT (Magnetic inspected)	3	394-
-13	159-14025	FITTING ASSEMBLY, Hinge bearing	3	394-
-14	AN207D4	. BEARING	1	394-
-15	AN3-5A	BOLT (Magnetic inspected)	3	394-
-16	AN960D10	WASHER	3	394-
-17	AN365-1032	NUT (Magnetic inspected)	3	394-
-18	AN4-7A	BOLT (Magnetic inspected)	4	394-
-19	AN960D416	WASHER	4	394-
-20	AN365-428	NUT (Magnetic inspected)	4	394-
-21	159-16112	FITTING, Aileron forward center hinge	1	394-
-22	AN3-5A	BOLT (Magnetic inspected)	4	394-
-23	AN960D10	WASHER	4	394-
-24	AN365-1032	NUT	4	394-
-25	AN4-7A	BOLT (Magnetic inspected)	2	394-
-26	AN509-416R15	SCREW (Magnetic inspected)	2	394-
-27	AN960D416	WASHER	4	394-
-28	AN365-428	NUT	4	394-
-29	159-16111	FITTING, Aileron forward inboard hinge	1	394-
-30	AN364-428	NUT	1	394-
-31	AN960D416	WASHER	1	394-
-32	2W1-24-22-5	WASHER, Plain (North American)	AR	394-
	2W1-24-22-10	WASHER, Plain (North American)	AR	394-
-33	159-14028	PIN, WOP to center section forward and aft shear	1	394-
-34	No Number	WING OUTER PANEL LEADING EDGE STRUCTURAL EQUIPMENT(see figure 6 for detail breakdown)	NP	394-
-35	NAS221BZ9	SCREW, Brazier head Phillips recess bronze 10-32	1	394-
-36	159-13335-1	STOP ASSEMBLY, WOP access door hinge pin	1	394-
-37	174-14007-1	PANEL ASSEMBLY, Wing outer intermediate LH	1	394-
	174-14007-101	PANEL ASSEMBLY, Wing outer intermediate LH	1	394-743
	174-14007-2	PANEL ASSEMBLY, Wing outer intermediate RH	1	744-
	174-14007-102	PANEL ASSEMBLY, Wing outer intermediate RH	1	394-743
	159-14102-1	. PLATE ASSY, WOP aileron seal backing outboard LH	1	744-
	159-14102-2	. PLATE ASSY, WOP aileron seal backing outboard RH	1	394-
-38	159-14102-27	. . SEAL, WOP aileron seal backing outboard plate	1	394-
-39	NAS220BZP7	. . SCREW, Brazier head Phillips recess bronze 7/16-20	1	394-
-40	AN960D8L	. . WASHER	1	394-
-41	130-12083	. . COVER, WOP aft rear spar bolt inspection hole	1	394-
-42	159-14112-3	. . HINGE, WOP lower trailing edge door LH	1	394-
-43	159-14112-4	. . HINGE, WOP lower trailing edge door RH	1	394-
	174-14005-1	. . SPAR ASSEMBLY, Wing outer panel rear LH	1	394-
	174-14005-101	. . SPAR ASSEMBLY, Wing outer panel rear LH	1	394-743
	174-14005-2	. . SPAR ASSEMBLY, Wing outer panel rear RH	1	744-
	174-14005-102	. . SPAR ASSEMBLY, Wing outer panel rear RH	1	394-743
-44	AN5-13A	. . . BOLT (Magnetic inspected)	4	394-
-45	AN960D516	. . . WASHER	4	394-
-46	AN365-524	. . . NUT (Magnetic inspected)	4	394-
-47	159-14200	. . . FITTING, WOP aileron center hinge attaching forward	1	394-
-48	159-14201	. . . FITTING, WOP aileron center hinge attaching aft	1	394-
	174-14155-1	. . RIB ASSEMBLY, WOP sta 154.125 intermediate LH	1	394-
	174-14155-2	. . RIB ASSEMBLY, WOP sta 154.125 intermediate RH	1	394-
-49	159-13158-3	. . . FITTING, Wing center section to wing outer panel aft	1	394-
	174-14002-1	. . SKIN ASSEMBLY, Wing outer panel upper LH	1	394-
	174-14002-101	. . SKIN ASSEMBLY, Wing outer panel upper LH	1	394-743
	174-14002-2	. . SKIN ASSEMBLY, Wing outer panel upper RH	1	744-
	174-14002-102	. . SKIN ASSEMBLY, Wing outer panel upper RH	1	394-743
-50	174-48190-1	. . . CUP ASSEMBLY, WOP fuel tank filler support LH	1	744-
	174-48190-2	. . . CUP ASSEMBLY, WOP fuel tank filler support RH	1	394-
-51	NAS221-10	. . . SCREW, Brazier head Phillips recess alloy steel 10-32	7	394-
-52	174-48191-1	. . . DOOR ASSEMBLY, WOP fuel filler scupper cup LH	1	394-
	174-48191-2	. . . DOOR ASSEMBLY, WOP fuel filler scupper cup RH	1	394-
-53	AN253-3-331	. . . . PIN	1	394-
-54	174-48191-13	. . . . HINGE, WOP fuel filler scupper cup door half	1	394-
-55	174-48191-15	. . . . HINGE, WOP fuel filler scupper cup door half	1	394-
-56	H5000-2-051-125	. . . . LATCH, Door (Hartwell Aviation Supply)	2	394-
-57	803A2-025	. . . COVER, Bolt access (North American)	4	394-
-58	159-14297-1	. . FITTING, Wing outer panel tip support LH	1	394-
	159-14297-2	. . FITTING, Wing outer panel tip support RH	1	394-

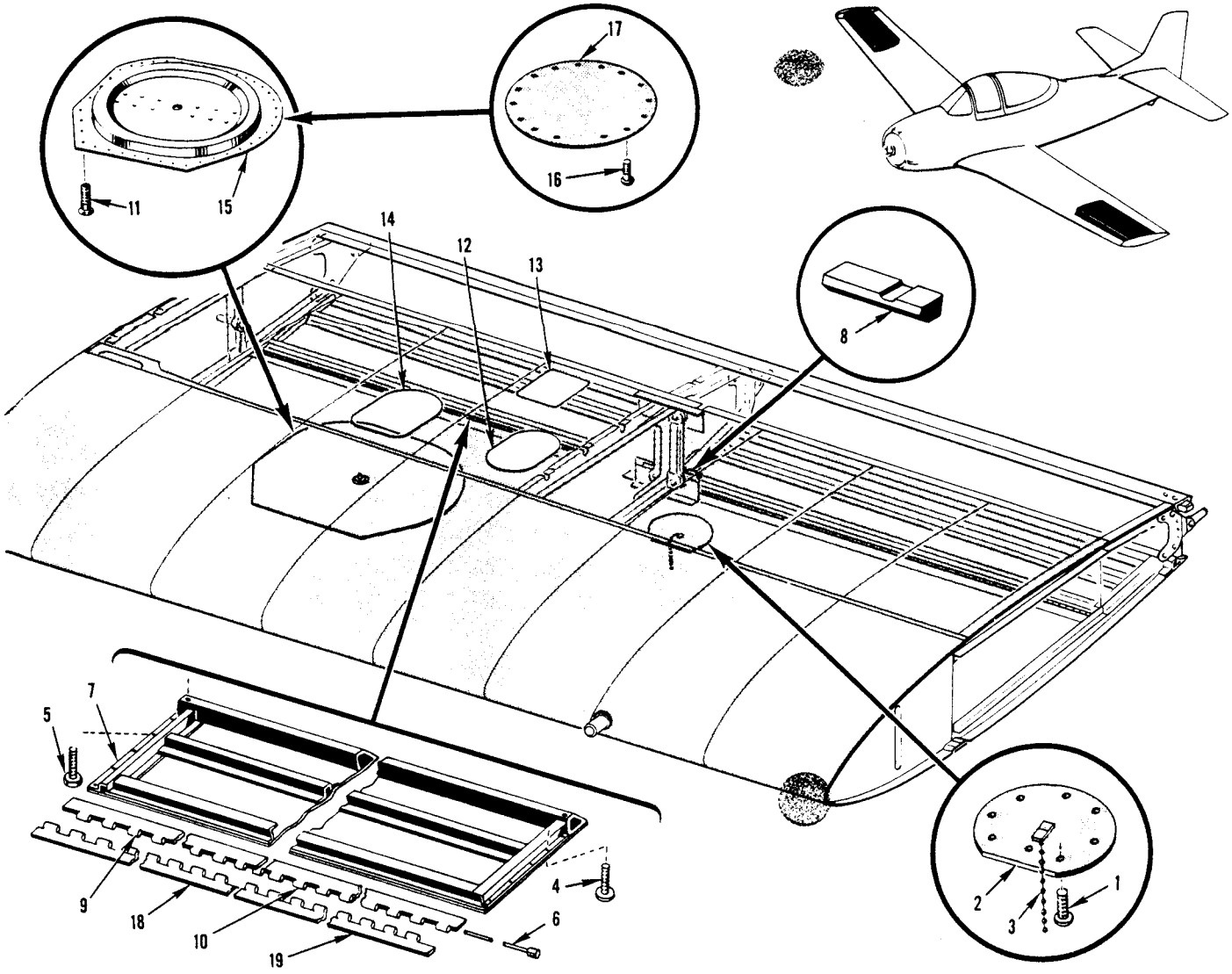


FIGURE 11 - WING OUTER PANEL COVERS AND DOORS

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
11	No Number	WING OUTER PANEL COVERS AND DOORS (see figure 9 and 10 for next assembly)	NP	
-1	NAS221BZ8	. SCREW, Brazier head Phillips recess bronze 10-32	8	4-393
	NAS221-10	. SCREW, Brazier head Phillips recess alloy steel 10-32	8	394-
-2	159-14134	. DOOR ASSEMBLY, Wing outer panel sta 196 lower access	1	
-3	9C1-1-5	. . CHAIN, Bead (North American)	1	
-4	NAS221-10	. SCREW, Brazier head Phillips recess alloy steel 10-32	12	
-5	AN4-6A	. BOLT	3	
-6	159-14113-3	. PIN ASSEMBLY, WOP lower trailing edge door hinge	2	
-7	159-14013-1	. DOOR ASSEMBLY, WOP trailing edge lower LH	1	
	159-14013-2	. DOOR ASSEMBLY, WOP trailing edge lower RH	1	
-8	159-14117-1	. . BLOCK, WOP station 196 aileron access door seal LH	1	
	159-14117-2	. . BLOCK, WOP station 196 aileron access door seal RH	1	
-9	159-14112-5	. . HINGE, WOP lower trailing edge door LH	1	
-10	159-14112-6	. . HINGE, WOP lower trailing edge door RH	1	
-11	NAS221-10	. SCREW, Brazier head Phillips recess alloy steel 10-32	65	394-
-12	174-14183	. COVER ASSEMBLY, WOP fuel vent forward access	1	394-
-13	174-14126	. COVER ASSY, WOP fuel rear vent access (used only on 174-14001-1, 174-14001-2 and 174-14001-101)	1	394-743
-14	174-14182	. COVER ASSEMBLY, WOP liquidometer access	1	394-
-15	174-14192-1	. DOOR ASSEMBLY, WOP fuel access LH	1	394-
	174-14192-2	. DOOR ASSEMBLY, WOP fuel access RH	1	394-
-16	AN515-6R8	. SCREW	15	4-393
-17	174-14223	. COVER, WOP landing light (ref T.O. 01-60FG-37)	1	4-393
-18	159-14112-3	HINGE, WOP lower trailing edge door LH (see fig. 9 and 10)	Ref	
-19	159-14112-4	HINGE, WOP lower trailing edge door RH (see fig. 9 and 10)	Ref	

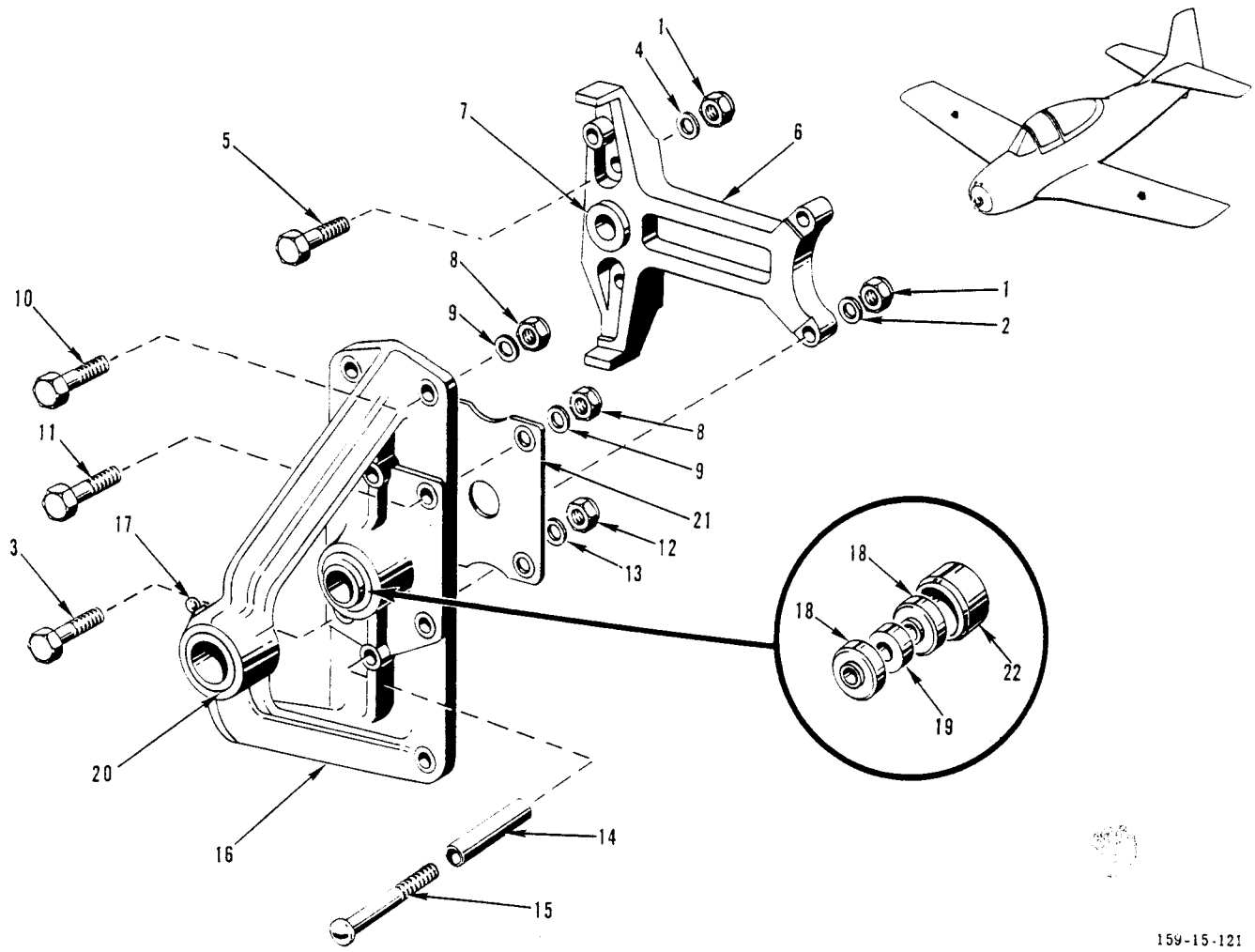


FIGURE 12 - AILERON CONTROL FITTINGS AND ATTACHING PARTS

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
12	No Number	AILERON CONTROL FITTINGS AND ATTACHING PARTS (see figure 15 and 16 for next assembly)	NP	
-1	AN365-428	. NUT (Magnetic inspected)	4	
-2	AN960D416	. WASHER (right wing only)	2	
-3	AN4-12A	. BOLT (Magnetic inspected) (left wing only)	2	
	AN4-11A	. BOLT (Magnetic inspected) (right wing only)	2	
-4	AN960D416L	. WASHER	4	
-5	AN4-7A	. BOLT (Magnetic inspected)	2	
-6	159-52303-1	. SUPPORT ASSEMBLY, Aileron control quadrant outboard LH	1	
	159-52303-2	. SUPPORT ASSEMBLY, Aileron control quadrant outboard RH	1	
-7	159-52330	. . PIVOT, Aileron control outboard quadrant	1	
-8	AN365-428	. NUT	6	
-9	AN960D416L	. WASHER (Left wing only)	6	
	AN960D416	. WASHER (Right wing only)	2	
	AN960D416L	. WASHER (Right wing only)	4	
-10	AN4-6A	. BOLT (Left wing only)	4	
	AN4-6A	. BOLT (Right wing only)	6	
-11	AN4-7A	. BOLT (Left wing only)	2	
-12	AN365-832	. NUT (Left wing only)	2	
-13	AN960D8	. WASHER (Left wing only)	4	
-14	MAS43-3-88	. SPACER, Bolt (supersedes 4S3-8-44) (left wing only)	2	
-15	AN515-8-40	. SCREW (Left wing only)	2	
-16	159-16233-5	. SUPPORT ASSY, Aileron trim & boost tab operating mech LH	1	
	159-16233-6	. SUPPORT ASSY, Aileron trim & boost tab operating mech RH	1	
-17	MAS2-101	. . FITTING, Lubrication (left support only)	1	
-18	AN201KP5A	. . BEARING	2	
-19	4S6-5-.187	. . SPACER, Plain dual bearing (left support only) (North American)	1	
-20	159-16234	. . BUSHING, Ail. tab operating mech sup. (left sup. only)	1	
-21	159-16246	. PLATE, Aileron trim & boost tab operating mech back-up (LH)	1	
-22	159-16247	. RETAINER, Aileron trim and boost tab operating mechanism bearing (left wing only)	1	

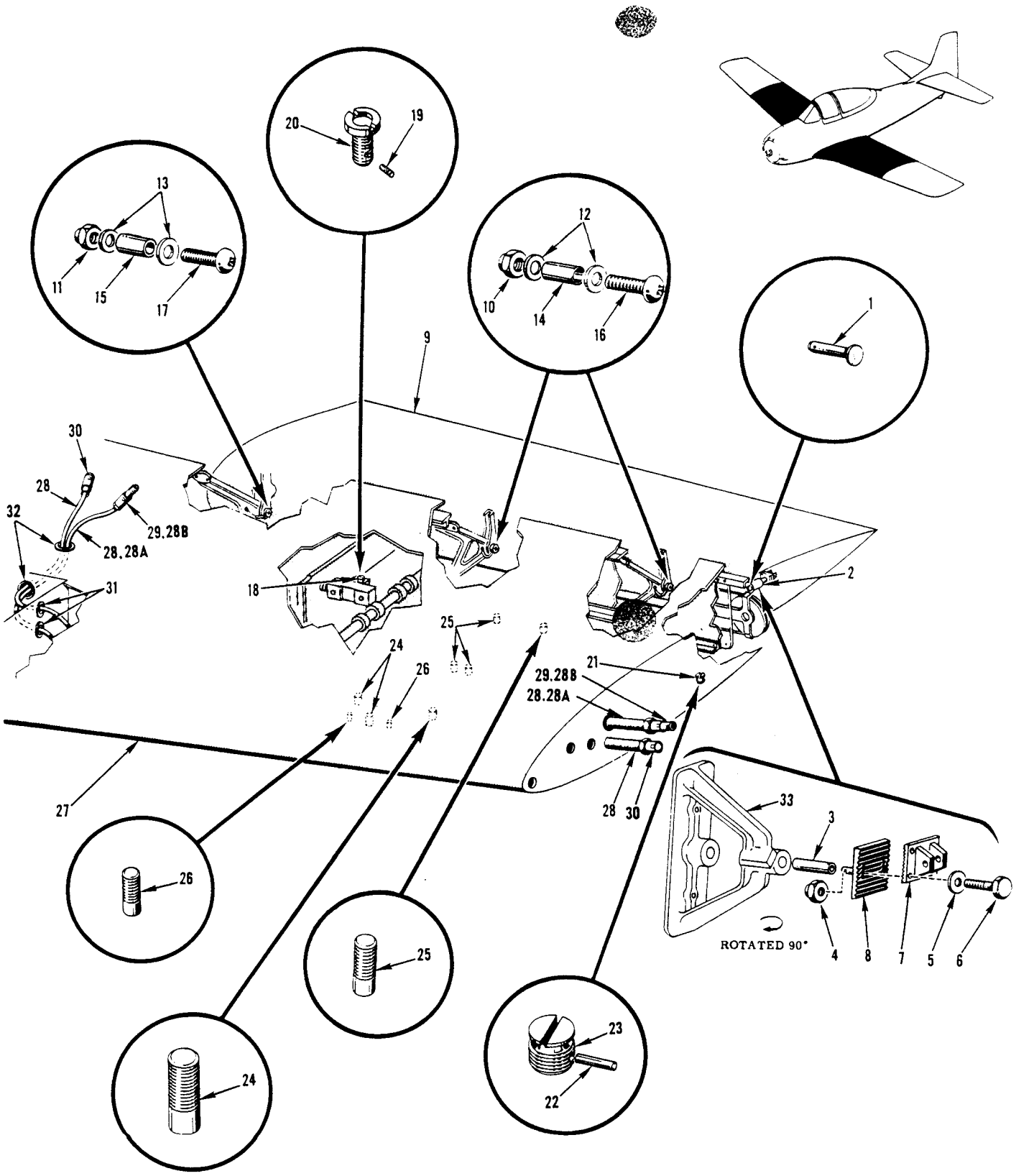


FIGURE 13 - CENTER SECTION PANEL WING ASSEMBLIES COMPLETE

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
13	159-13601-1		WING ASSEMBLY, Center section panel complete LH . . . . . (see figure 5 for next assembly)	Ref	4-268
	159-13601-101		WING ASSEMBLY, Center section panel complete LH . . . . . (see figure 5 for next assembly)	Ref	269-393
	159-13601-2		WING ASSEMBLY, Center section panel complete RH . . . . . (see figure 5 for next assembly)	Ref	4-393
-1	AN393--1	.	Pin.	2	4-393
-2	159-16236	.	SCREW ASSY, Aileron trim tab operating mechanism (LH only) .	1	4-393
	159-16239	.	TUBE ASSY, Aileron boost tab operating mechanism (RH only) .	1	4-393
-3	159-16237	. .	SCREW, Trim tab operating mechanism female jack (LH only)	1	4-393
	159-16240	. .	TUBE, Aileron boost tab operating mechanism (RH only) . .	1	4-393
-4	AN365-1032	. .	NUT	2	4-393
-5	AN960D10	. .	WASHER.	2	4-393
-6	AN3-5A	. .	BOLT (Magnetic inspected)	2	4-393
-7	159-16243	. .	FORK, Aileron boost tab operating mechanism serrated. . .	1	4-393
-8	159-16242	. .	PLATE, Aileron boost tab operating mechanism serrated . .	1	4-393
-9	159-18001-401	.	FLAP ASSY, Wing LH (supersedes 159-18001-1, -201 and -301) . (see figure 24 for detail breakdown)	1	4-393
	159-18001-402	.	FLAP ASSY, Wing RH (supersedes 159-18001-2, -102, -202 and . -302) (see figure 24 for detail breakdown	1	4-393
	ATTACHING PARTS				
-10	AN364-428	.	NUT (Magnetic inspected)	2	4-393
-11	AN364-624	.	NUT (Magnetic inspected)	1	4-393
-12	2W1A217-24-64	.	WASHER, Plain (North American)	4	4-393
-13	2W1A225-28-64	.	WASHER, Plain (North American)	2	4-393
-14	4B2184-116	.	BUSHING, Spacer (North American)	2	4-393
-15	159-18051	.	BUSHING, Wing flap inboard hinge (supersedes 4B2186-113) . .	1	4-393
-16	NAS822-30	.	SCREW, Brazier head Phillips recess alloy steel 1/4-28 . . .	2	4-393
-17	NAS824-29	.	SCREW, Brazier head Phillips recess alloy steel 3/8-24 . . .	1	4-393
	---*---				
-18	159-13333-7	.	PLUG ASSY, Wing center section jacking and mooring assy. . .	1	4-393
-19	159-13333-5	. .	INSERT, Wing center section jacking and mooring assy. . .	1	4-393
-20	159-13333-9	. .	PLUG, Wing center section jacking and mooring assembly. .	1	4-393
-21	159-13333	.	PLUG ASSY, Wing center section jacking and mooring assy. . .	1	4-393
-22	159-13333-5	. .	INSERT, Jacking and mooring plug.	1	4-393
-23	159-13333-3	. .	PLUG, Jacking and mooring	1	4-393
-24	159-13334-3	.	PLUG, Wing center section gun and bomb assembly.	3	4-393
-25	159-13334-5	.	PLUG, Wing center section gun and bomb assembly.	4	4-393
-26	159-13334-7	.	PLUG, Wing center section gun and bomb assembly.	2	4-393
-27	159-13100-201	.	PANEL ASSY, Wing center section complete LH (supersedes. . . 159-13100-1) (see figure 15 for detail breakdown)	1	4-268
	159-13100-301	.	PANEL ASSY, Wing center section complete LH (see figure . . 15 for detail breakdown)	1	269-393
	159-13100-202	.	PANEL ASSY, Wing center section complete RH (supersedes . . 159-13100-2 and 159-13100-102) (see figure 15 for detail breakdown)	1	4-393
	159-54013-1	.	ELECTRICAL EQUIPMENT INSTALLATION, Inner wing LH (see. . . . figure 40 for detail breakdown)	NP	4-393
	159-54013-2	.	ELECTRICAL EQUIPMENT INSTALLATION, Inner wing RH (see. . . . figure 40 for detail breakdown)	NP	4-393
	159-51013-1	.	INSTRUMENT EQUIPMENT INSTALLATION, Wing center section LH. . (see figure 34 for detail breakdown)	NP	4-393
	159-51013-2	.	INSTRUMENT EQUIPMENT INSTALLATION, Wing center section RH. . (see figure 34 for detail breakdown)	NP	4-393
	159-48013-1	.	FUEL SYSTEM EQUIPMENT INSTALLATION, Wing center section LH . (see figure 26 for detail breakdown)	NP	4-393
	159-48013-2	.	FUEL SYSTEM EQUIPMENT INSTALLATION, Wing center section RH . (see figure 26 for detail breakdown)	NP	4-393
	159-33013-1	.	MAIN ALIGHTING GEAR INSTALLATION, Wing LH (see figure 198. . for detail breakdown)	NP	4-393
	159-33013-2	.	MAIN ALIGHTING GEAR INSTALLATION, Wing RH (see figure 198. . for detail breakdown)	NP	4-393
	159-58013-1	.	HYDRAULIC EQUIPMENT INSTALLATION, Wing LH (see figure 37 . . for detail breakdown)	NP	4-393
	159-58013-2	.	HYDRAULIC EQUIPMENT INSTALLATION, Wing RH (see figure 37 . . for detail breakdown)	NP	4-393
	159-52013-1	.	SURFACE CONTROLS INSTALLATION, Wing LH (see figure 36. . . . for detail breakdown)	NP	4-393
	159-52013-2	.	SURFACE CONTROLS INSTALLATION, Wing RH (see figure 36. . . . for detail breakdown)	NP	4-393
	171-71011	.	CABLE INSTALLATION, Radio receiver LH WCS antenna.	NP	269-393
	171-71072	. .	WIRING DIAGRAM, Radio AN/ARN14 and AN/ARN18 antenna . . . cables wing center section	1	269-393
-28	RG8/U	. . .	CABLE, Co-axial (American Phenolic)	.33 1/2 ft	269-393
-28A	174-71050-20 *1	. .	CABLE ASSEMBLY, AN/ARN14 radio antenna	1	4-268
-28B	UG23D/U *1	. . .	PLUG	2	4-268
	174-71050-2 *1	. . .	CABLE, Co-axial (RG8A/U 187 inches)	1	4-268
-29	UG23/U	. .	JACK, (American Phenolic)	2	269-393
-30	UG21C/U	. .	PLUG, (American Phenolic)	2	269-393
-31	295111-14B	. .	GROMMET, (United-Carr)	2	269-393
-32	295111-20A	. .	GROMMET, (United-Carr)	2	269-393
-33	159-16233-5		SUPPORT ASSY, Aileron trim and boost tab operating . . . . . mechanism LH (see figure 12)	Ref	
	159-16233-6		SUPPORT ASSY, Aileron trim and boost tab operating . . . . . mechanism RH (see figure 12)	Ref	

*1 Refer to T. O. 1T-28-50.

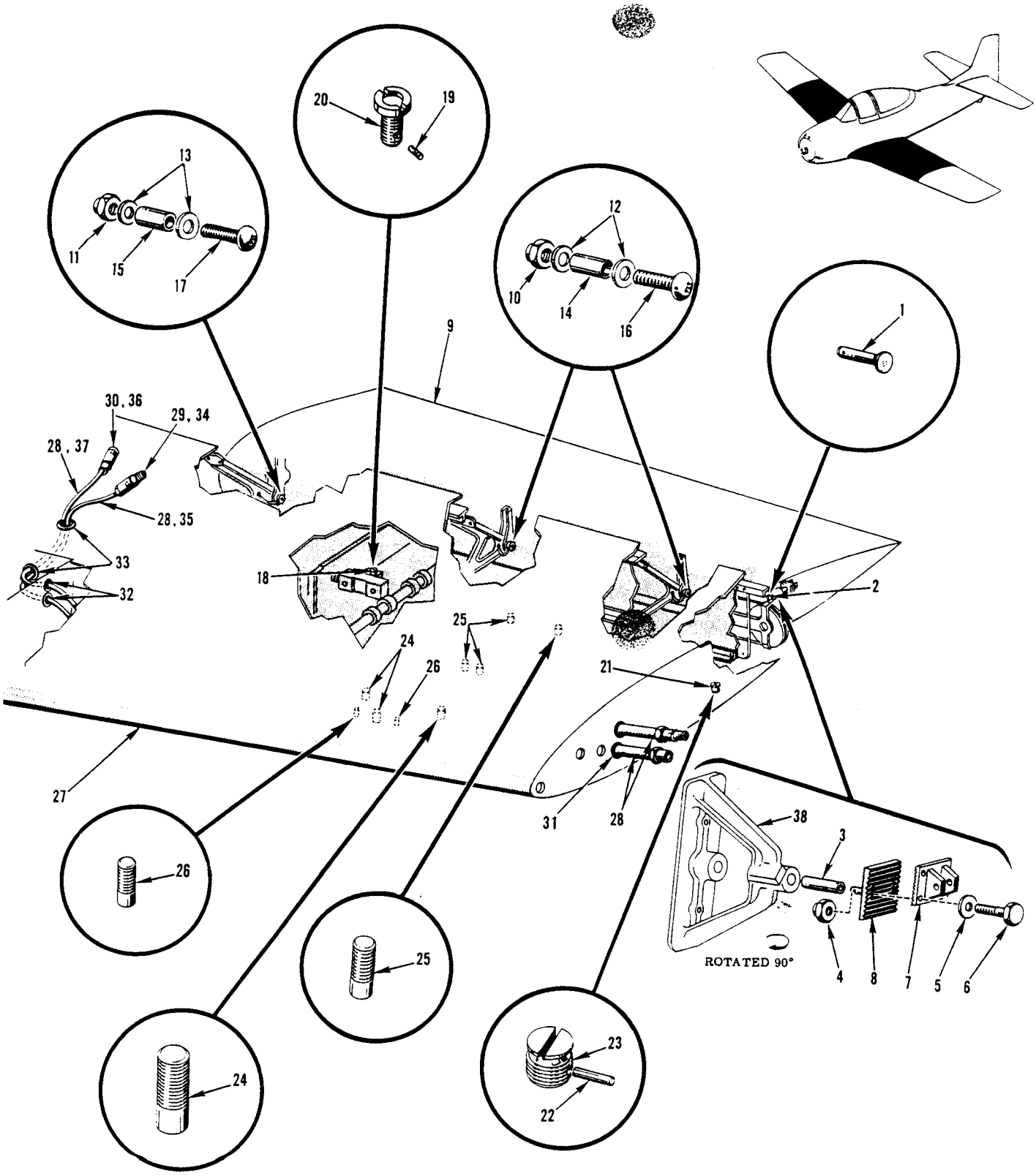


FIGURE 14 - CENTER SECTION PANEL WING ASSEMBLIES COMPLETE

WING (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
14	174-13601-1	WING ASSEMBLY, Center section panel complete LH (see figure 5 for next assembly)	Ref	394-
	174-13601-2	WING ASSEMBLY, Center section panel complete RH (see figure 5 for next assembly)	Ref	394-
-1	AN393--1	. PIN	1	394-
-2	159-16236	. SCREW ASSY, Aileron trim tab operating mechanism (LH only)	1	394-
	159-16239	. TUBE ASSY, Aileron boost tab operating mechanism (RH only)	1	394-
-3	159-16237	. . SCREW, Trim tab operating mechanism female jack (LH only)	1	394-
	159-16240	. . TUBE, Aileron boost tab operating mechanism (RH only)	1	394-
-4	AN365-1032	. . NUT	2	394-
-5	AN960C10	. . WASHER	2	394-
-6	AN3-5A	. . BOLT (magnetic inspected)	2	394-
-7	159-16243	. . FORK, Aileron boost tab operating mechanism serrated	1	394-
-8	159-16242	. . PLATE, Aileron boost tab operating mechanism serrated	1	394-
-9	159-18001-401	. FLAP ASSY, Wing LH (supersedes 159-18001-1, -201, and -301) (see figure 24 for detail breakdown)	1	394-
	159-18001-402	. FLAP ASSY, Wing RH (supersedes 159-18001-2, -102, -202, and -302) (see figure 24 for detail breakdown)	1	394-
	ATTACHING PARTS			
-10	AN364--28	. NUT (magnetic inspected)	2	394-
-11	AN364-624	. NUT (magnetic inspected)	1	394-
-12	2W1AL17-24-64	. WASHER, Plain (North American)	4	394-
-13	2W1AL25-28-64	. WASHER, Plain (North American)	2	394-
-14	-B21S--116	. BUSHING, Spacer (North American)	2	394-
-15	159-18051	. BUSHING, Wing flap inboard hinge (supersedes -B21S6-113)	1	394-
-16	NAS222-30	. SCREW, Brazier head Phillips recess alloy steel 1/4-28	2	394-
-17	NAS224-29	. SCREW, Brazier head Phillips recess alloy steel 3/8-24	1	394-
	---*---			
-18	159-13333-7	. PLUG ASSY, Wing center section jacking and mooring assy	1	394-
-19	159-13333-5	. . INSERT, Wing center section jacking and mooring assy	1	394-
-20	159-13333-9	. . PLUG, Wing center section jacking and mooring assembly	1	394-
-21	159-13333	. PLUG ASSY, Wing center section jacking and mooring assy	1	394-
-22	159-13333-5	. . INSERT, Jacking and mooring plug	1	394-
-23	159-13333-3	. . PLUG, Jacking and mooring	1	394-
-24	159-13334-3	. PLUG, Wing center section gun and bomb assembly	3	394-
-25	159-13334-5	. PLUG, Wing center section gun and bomb assembly	4	394-
-26	159-13334-7	. PLUG, Wing center section gun and bomb assembly	2	394-
-27	174-13100-1	. PANEL ASSY, WCS complete LH (superseded by 174-13100-101 174-13100-1 may be used interchangeably with 174-13100-101 until stock is exhausted) (see figure 16 for detail breakdown)	1	394-528
	174-13100-2	. PANEL ASSY, WCS complete RH (superseded by 174-13100-102 174-13100-2 may be used interchangeably with 174-13100-102 until stock is exhausted) (see figure 16 for detail breakdown)	1	394-528
	174-13100-101	. PANEL ASSY, WCS complete LH (supersedes 174-13100-1 for future procurement) (see fig. 16 for detail breakdown)	1	394-
	174-13100-102	. PANEL ASSY, WCS complete RH (supersedes 174-13100-2 for future procurement) (see fig. 16 for detail breakdown)	1	394-
	174-54013-1	. ELECTRICAL EQUIPMENT INSTALLATION, Inner wing LH (see figure -1 for detail breakdown)	NP	394-
	174-54013-2	. ELECTRICAL EQUIPMENT INSTALLATION, Inner wing RH (see figure -1 for detail breakdown)	NP	394-
	159-51013-1	. INSTRUMENT EQUIP. INSTL, WCS LH (see fig. 35 for breakdown)	NP	394-
	159-51013-2	. INSTRUMENT EQUIP. INSTL, WCS RH (see fig. 35 for breakdown)	NP	394-
	174-48013-1	. FUEL SYS EQUIP. INSTL, WCS LH (see fig. 27 for breakdown)	NP	394-
	174-48013-2	. FUEL SYS EQUIP. INSTL, WCS RH (see fig. 27 for breakdown)	NP	394-
	159-33013-1	. MAIN ALIGHTING GEAR INSTALLATION, Wing LH (see figure 198 for detail breakdown)	NP	394-
	159-33013-2	. MAIN ALIGHTING GEAR INSTALLATION, Wing RH (see figure 198 for detail breakdown)	NP	394-
	159-58013-1	. HYD EQUIP. INSTL, Wing LH (see fig. 37 for breakdown)	NP	394-
	159-58013-2	. HYD EQUIP. INSTL, Wing RH (see fig. 37 for breakdown)	NP	394-
	159-52013-1	. SURFACE CONTROLS INSTL, Wing LH (see fig. 36 for breakdown)	NP	394-
	159-52013-2	. SURFACE CONTROLS INSTL, Wing RH (see fig. 36 for breakdown)	NP	394-
	171-71011	. CABLE INSTALLATION, Radio receiver LH WCS antenna	NP	394-
	171-71072	. . WIRING DIAGRAM, Radio AN/ARN14 and AN/ARN18 antenna cables wing center section	1	394-843
-28	RG8/U	. . . CABLE, Co-axial (American Phenolic)	32ft	394-843
-29	UG23C/U	. . JACK (American Phenolic)	2	394-843
-30	UG21C/U	. . PLUG (American Phenolic)	2	394-843
-31	AN931-8S13	. . GROMMET	2	394-
-32	295111-14B	. . GROMMET (United-Carr Fastener)	2	394-
-33	295111-20B	. . GROMMET (United-Carr Fastener)	2	394-
	174-71050-20	. . CABLE ASSY, AN/ARN14 Radio antenna	1	844-
-34	UG23D/U	. . . JACK (American Phenolic)	2	844-
-35	174-71050-2	. . . CABLE, Co-axial (altered from American Phenolic RG8A/U) (187 inches)	1	844-
	174-71060-20	. . CABLE ASSY, AN/ARN18 radio antenna	1	844-
-36	UG21D/U	. . . PLUG (American Phenolic)	2	844-
-37	174-71060-2	. . . CABLE, Co-axial (altered from American Phenolic RG8A/U) (192 1/2 inches)	1	844-
-38	159-16233-5	SUP. ASSY, Ail. trim & boost tab operating mech LH (see fig. 12)	Ref	
	159-16233-6	SUP. ASSY, Ail. trim & boost tab operating mech RH (see fig. 12)	Ref	

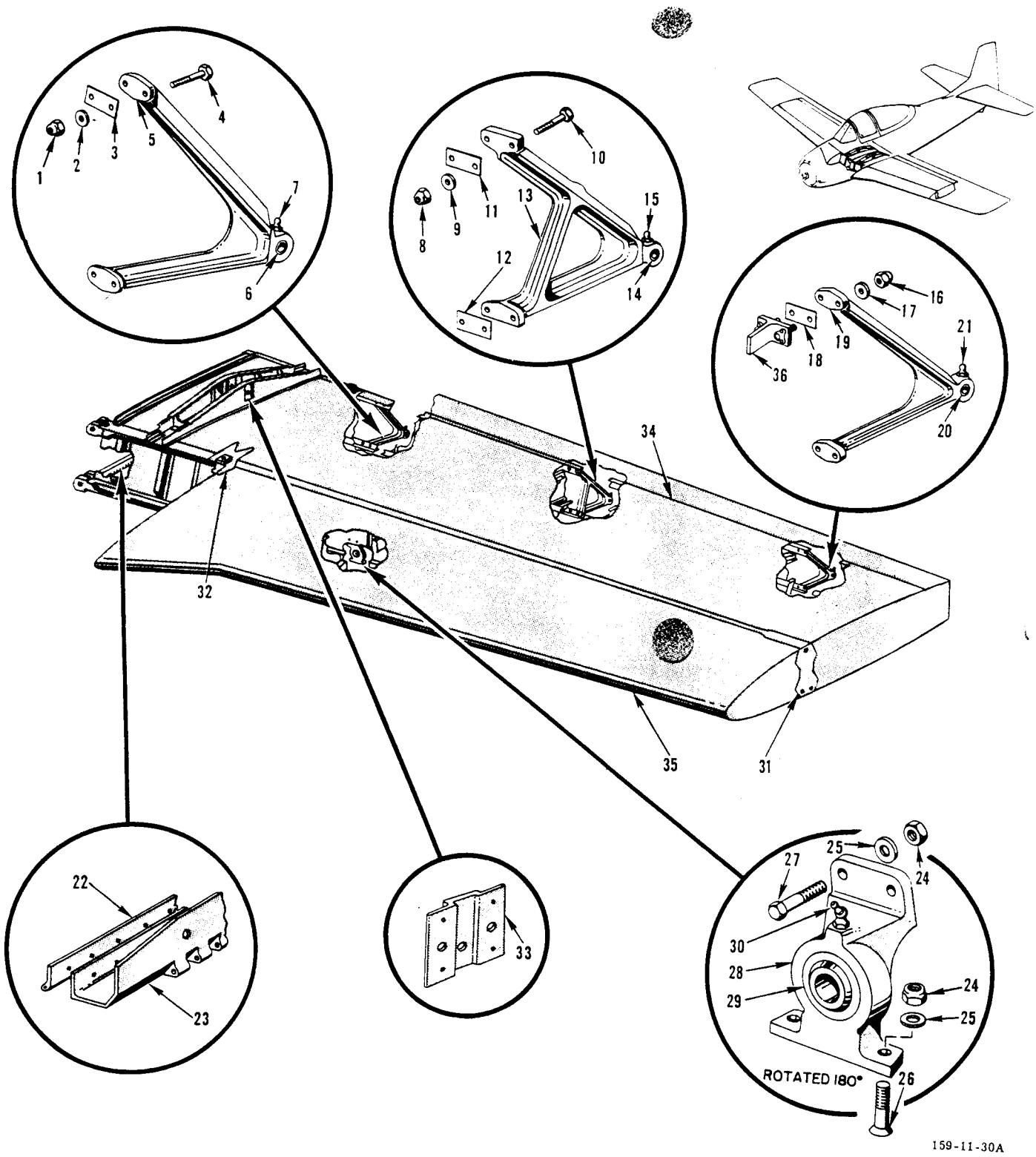


FIGURE 15 - WING CENTER SECTION PANEL ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
15	159-13100-201	PANEL ASSEMBLY, Wing center section complete LH (supersedes 159-13100-1) (see figure 13 for next assembly)	Ref	4-268
	159-13100-301	PANEL ASSEMBLY, Wing center section complete LH (see figure 13 for next assembly)	Ref	269-393

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
15	159-13100-202	PANEL ASSY, Wing center section complete RH (supersedes 159-13100-2 and -102) (see fig. 13 for next assembly)	Ref	4-393
	No Number	. WING CENTER SECTION PANEL ASSEMBLY COVERS AND DOORS (see figure 17 for detail breakdown)	NP	4-393
	No Number	. WING CENTER SECTION PANEL ASSEMBLY COVERS AND DOORS (CONTINUED) (see figure 18 for detail breakdown)	NP	4-393
	No Number	. AILERON CONTROL FITTINGS AND ATTACHING PARTS (see figure 12 for detail breakdown)	NP	4-393
-1	AN365-428	. NUT (Magnetic inspected)	4	4-393
-2	AN960D416L	. WASHER	4	4-393
-3	159-13328-3	. SHIM, Flap hinge fitting	AR	4-393
	159-13328-11	. SHIM, Flap hinge fitting	AR	4-393
-4	AN4-13A	. BOLT, (Magnetic inspected)	4	4-393
-5	159-18011-5	. FITTING ASSEMBLY, Flap forward inboard hinge LH	1	4-393
	159-18011-6	. FITTING ASSEMBLY, Flap forward inboard hinge RH	1	4-393
-6	4E19B8-009	. . BUSHING, Press fit plain (North American)	2	4-393
-7	NAS2-101	. . FITTING, Lubrication	1	4-393
-8	AN365-624	. NUT (Magnetic inspected)	2	4-393
-9	AN960D616L	. WASHER	2	4-393
-10	AN6-15A	. BOLT (Magnetic inspected)	4	4-393
-11	159-13328-9	. SHIM, Flap hinge fitting	AR	4-393
	159-13328-17	. SHIM, Flap hinge fitting	AR	4-393
-12	159-13328-7	. SHIM, Flap hinge fitting	AR	4-393
	159-13328-15	. SHIM, Flap hinge fitting	AR	4-393
-13	159-18012-5	. FITTING ASSEMBLY, Flap forward center hinge LH	1	4-393
	159-18012-6	. FITTING ASSEMBLY, Flap forward center hinge RH	1	4-393
-14	4E20B6-009	. . BUSHING, Press fit flanged (North American)	2	4-393
-15	NAS2-101	. . FITTING, Lubrication	1	4-393
-16	AN365-428	. NUT (Magnetic inspected)	4	4-393
-17	AN960D416L	. WASHER	4	4-393
-18	159-13328-5	. SHIM, Flap hinge fitting	AR	4-393
	159-13328-13	. SHIM, Flap hinge fitting	AR	4-393
-19	159-18013-5	. FITTING ASSEMBLY, Flap forward outboard hinge LH	1	4-393
	159-18013-6	. FITTING ASSEMBLY, Flap forward outboard hinge RH	1	4-393
-20	4E20B6-009	. . BUSHING, Press fit flanged (North American)	2	4-393
-21	NAS2-101	. . FITTING, Lubrication	1	4-393
-22	159-13100-3	. WEATHERSTRIP, Main landing gear fuselage door fuselage attaching hinge (left wing only)	1	4-393
-23	159-33342-1	. HINGE, Main LG fuselage door fuselage attaching LH	1	4-393
	159-33342-2	. HINGE, Main LG fuselage door fuselage attaching RH	1	4-393
-24	AN365-428	. NUT	4	4-393
-25	AN960D416	. WASHER	4	4-393
-26	MS9382-15	. SCREW, Brazier head Phillips recess alloy steel 1/4-28	2	4-393
-27	AN4-6A	. BOLT	2	4-393
-28	159-33132-5	. FITTING ASSEMBLY, Main alighting gear brace shaft forward	1	4-393
-29	HSB10A	. . BEARING (Hafco Bearing)	1	4-393
-30	NAS2-201	. . FITTING, Lubrication	1	4-393
-31	159-13165	. PLATE, WCS station 153.375 front spar rib splice	1	4-393
-32	159-13022-1	. FITTING ASSEMBLY, Wing center section to fuselage drag LH	1	4-393
	159-13022-2	. FITTING ASSEMBLY, Wing center section to fuselage drag RH	1	4-393
	159-33500-1	. SUPPORT ASSEMBLY, Main alighting gear uplock LH (used on 159-13100-201 and -301)	1	81-393
	159-33500-2	. SUPPORT ASSEMBLY, Main alighting gear uplock RH (used on 159-13100-202)	1	81-393
	159-33473-1	. SUPPORT ASSEMBLY, Main alighting gear uplock LH (used on 159-13100-1)	1	4-80
	159-33473-2	. SUPPORT ASSEMBLY, Main alighting gear uplock RH (used on 159-13100-2)	1	4-80
-33	159-33505-1	. . FITTING, Main alighting gear uplock support LH (used on 159-13100-201)	1	81-393
	159-33505-2	. . FITTING, Main alighting gear uplock support RH (used on 159-13100-202)	1	81-393
	159-33467	. . FITTING, Main alighting gear uplock support (used on 159-13100-1 and -2)	2	4-80
-34	159-13026-1	. STRUCTURE ASSEMBLY, Wing center section intermediate LH (see figure 20 for detail breakdown)	1	4-80
	159-13026-2	. STRUCTURE ASSEMBLY, Wing center section intermediate RH (see figure 20 for detail breakdown)	1	4-40
	159-13026-202	. STRUCTURE ASSEMBLY, Wing center section intermediate RH (see figure 20 for detail breakdown)	1	41-80
	159-13026-101	. STRUCTURE ASSEMBLY, Wing center section intermediate LH (see figure 20 for detail breakdown)	1	81-268
	159-13026-301	. STRUCTURE ASSEMBLY, Wing center section intermediate LH (see figure 20 for detail breakdown)	1	269-393
	159-13026-102	. STRUCTURE ASSEMBLY, Wing center section intermediate RH (see figure 20 for detail breakdown)	1	81-393
-35	159-13006-1	. LEADING EDGE ASSY, WCS LH (see fig. 19 for detail breakdown)	1	4-268
	159-13006-101	. LEADING EDGE ASSY, WCS LH (see fig. 19 for detail breakdown)	1	269-393
	159-13006-2	. LEADING EDGE ASSY, WCS RH (see fig. 19 for detail breakdown)	1	4-393
	159-48113-1	. LINER INSTALLATION, WCS fuel tank LH (see figure 30 for detail breakdown)	NP	4-393
	159-48113-2	. LINER INSTALLATION, WCS fuel tank RH (see figure 30 for detail breakdown)	NP	4-393
-36	159-18223	FITTING ASSEMBLY, Flap outboard hinge lower attaching (see figure 20)	Ref	

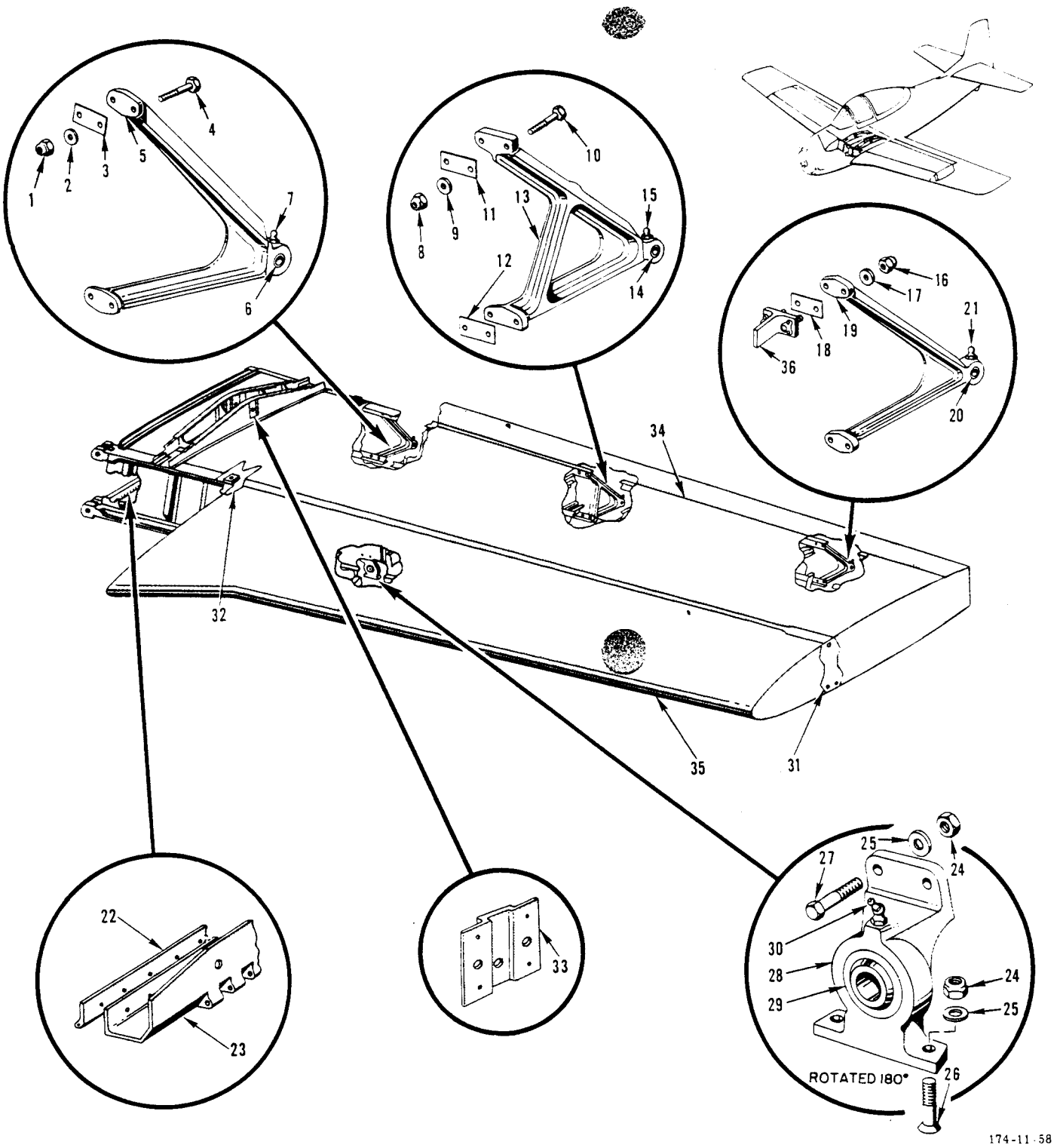


FIGURE 16 - WING CENTER SECTION PANEL ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
16	174-13100-1	PANEL ASSY, WCS complete LH (superseded by 174-13100-101, . . . 174-13100-1 may be used interchangeably with 174-13100-101 until stock is exhausted) (see fig. 14 for next assy)	Ref	394-528
	174-13100-2	PANEL ASSY, WCS complete RH (superseded by 174-13100-102. . . . 174-13100-2 may be used interchangeable with 174-13100-102 until stock is exhausted) (see fig. 14 for next assy)	Ref	394-528
	174-13100-101	PANEL ASSY, WCS complete LH (supersedes 174-13100-1 for future . procurement) (see figure 14 for next assembly)	Ref	394-
	174-13100-102	PANEL ASSY, WCS complete RH (supersedes 174-13100-2 for future . procurement) (see figure 14 for next assembly)	Ref	394-
	No Number	. WING CENTER SECTION COVERS AND DOORS . . . . . (see figure 17 for detail breakdown)	NP	394-
	No Number	. WING CENTER SECTION COVERS AND DOORS (CONTINUED). . . . . (see figure 18 for detail breakdown)	NP	394-
	No Number	. AILERON CONTROL FITTINGS AND ATTACHING PARTS. . . . . (see figure 12 for detail breakdown)	NP	394-
-1	AN365--28	. NUT (Magnetic inspected).	4	394-
-2	AN960D416L	. WASHER.	4	394-
-3	159-13328-3	. SHIM, Flap hinge fitting	AR	394-
	159-13328-11	. SHIM, Flap hinge fitting	AR	394-
-4	AN4-13A	. BOLT (Magnetic inspected)	4	394-
-5	159-18011-5	. FITTING ASSEMBLY, Flap forward inboard hinge LH	1	394-
	159-18011-6	. FITTING ASSEMBLY, Flap forward inboard hinge RH	1	394-
-6	4B1288-009	. . BUSHING, Press fit plain (North American).	2	394-
-7	MA82-101	. . FITTING, Lubrication	1	394-
-8	AN365-624	. NUT (Magnetic inspected).	2	394-
-9	AN960D616L	. WASHER.	2	394-
-10	AN6-15A	. BOLT (Magnetic inspected)	4	394-
-11	159-13328-9	. SHIM, Flap hinge fitting.	AR	394-
	159-13328-17	. SHIM, Flap hinge fitting.	AR	394-
-12	159-13328-7	. SHIM, Flap hinge fitting.	AR	394-
	159-13328-15	. SHIM, Flap hinge fitting.	AR	394-
-13	159-18012-5	. FITTING ASSEMBLY, Flap forward center hinge LH.	1	394-
	159-18012-6	. FITTING ASSEMBLY, Flap forward center hinge RH.	1	394-
-14	4B1286-009	. . BUSHING, Press fit flanged (North American).	2	394-
-15	MA82-101	. . FITTING, Lubrication	1	394-
-16	AN365-428	. NUT (Magnetic inspected).	4	394-
-17	AN960D416L	. WASHER.	AR	394-
-18	159-13328-5	. SHIM, Flap hinge fitting.	AR	394-
	159-13328-13	. SHIM, Flap hinge fitting.	AR	394-
-19	159-18013-5	. FITTING ASSEMBLY, Flap forward outboard hinge LH.	1	394-
	159-18013-6	. FITTING ASSEMBLY, Flap forward outboard hinge RH.	1	394-
-20	4B1286-009	. . BUSHING, Press fit plain (North American).	2	394-
-21	MA82-101	. . FITTING, Lubrication	1	394-
-22	174-13100-3	. WEATHERSTRIP, Main landing gear fuselage door fuselage. . . . attaching hinge (left wing only)	1	394-
-23	159-33342-1	. HINGE, Main LG fuselage door fuselage attaching LH	1	394-
	159-33342-2	. HINGE, Main LG fuselage door fuselage attaching RH	1	394-
-24	AN365-428	. NUT	4	394-
-25	AN960D416	. WASHER.	4	394-
-26	MS20004-15	. SCREW, Brazier head Phillips recess alloy steel 1--28 . . .	2	394-
-27	AN--3A	. BOLT	2	394-
-28	159-33132-5	. FITTING ASSEMBLY, Main alighting gear brace shaft forward . .	1	394-
-29	HCB10A	. . BEARING (Half-to Bearing)	1	394-
-30	MA82-201	. . FITTING, Lubrication	1	394-
-31	174--13165	. PLATE, WCS station 153.875 front spar rib splice.	1	394-
-32	159-13022-1	. FITTING ASSEMBLY, Wing center section to fuselage drag LH . .	1	394-
	159-13022-2	. FITTING ASSEMBLY, Wing center section to fuselage drag RH . .	1	394-
	159-33500-1	. SUPPORT ASSEMBLY, Main alighting gear uplock LH	1	394-
	159-33500-2	. SUPPORT ASSEMBLY, Main alighting gear uplock RH	1	394-
-33	159-33505-2	. . FITTING, Main alighting gear uplock sub RH (used on LH) .	2	394-
	159-33505-1	. . FITTING, Main alighting gear uplock sub LH (used on RH) .	2	394-
-34	174-13026-1	. STRUCTURE ASSY, WCS intermediate LH (superseded by . . . . . 174-13026-101. 174-13026-1 may be used interchangeably with 174-13026-101 until stock is exhausted) (see figure 21 for detail breakdown)	1	394-528
	174-13026-2	. STRUCTURE ASSY, WCS intermediate RH (superseded by 174-13026-102. 174-13026-2 may be used interchangeably with 174-13026-102 until stock is exhausted) (see figure 21 for detail breakdown)	1	394-528
	174-13026-101	. STRUCTURE ASSY, WCS intermediate LH (supersedes 174-13026-1 . for future procurement) (see fig. 21 for breakdown)	1	394-
	174-13026-102	. STRUCTURE ASSY, WCS intermediate RH (supersedes 174-13026-2 . for future procurement) (see fig. 21 for breakdown)	1	394-
-35	159-13006-201	. LEADING EDGE ASSY, WCS LH (see fig. 19 for detail breakdown).	1	394-528
	159-13006-202	. LEADING EDGE ASSY, WCS RH (see fig. 19 for detail breakdown).	1	394-528
	159-13006-301	. LEADING EDGE ASSY, WCS LH (see fig. 19 for detail breakdown).	1	529-
	159-13006-302	. LEADING EDGE ASSY, WCS RH (see fig. 19 for detail breakdown).	1	529-
	159-48113-11	. LINER INSTALLATION, WCS fuel tank LH (see fig. 30 for . . . . detail breakdown)	NP	394-
	159-48113-12	. LINER INSTALLATION, WCS fuel tank RH (see figure 30 for . . . detail breakdown)	NP	394-
-36	159-18223	FITTING ASSEMBLY, Flap outboard hinge lower attaching. . . . . (see figure 20)	Ref	

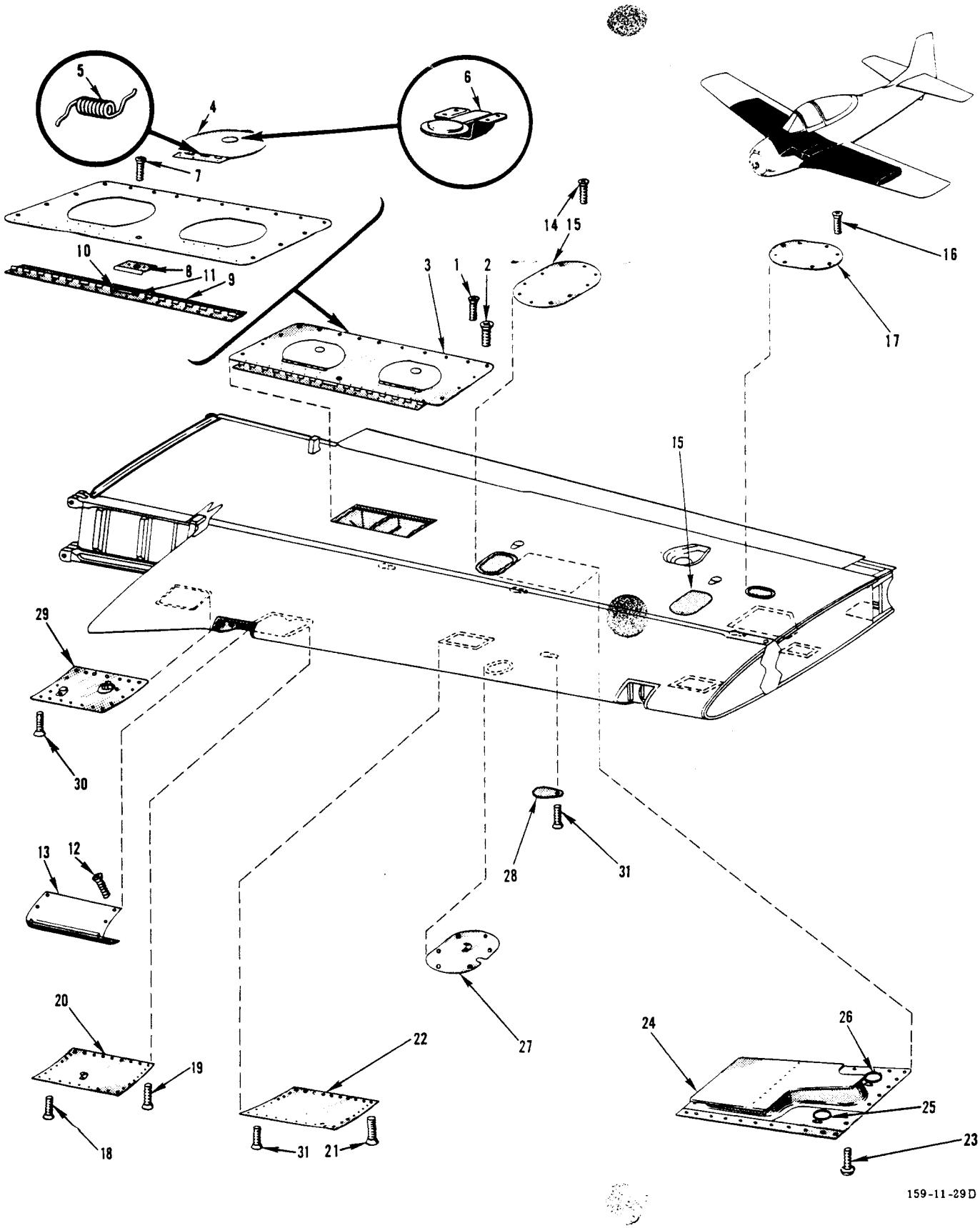


FIGURE 17 - WING CENTER SECTION COVERS AND DOORS

WING (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
17	No Number	WING CENTER SECTION COVERS AND DOORS (See figure 15 and 16 for next assembly)	NP	
-1	NAS222-14	. SCREW, Brazier head Phillips recess alloy steel 1/4-28	10	81-
	AN509-10R10	. SCREW	6	4-80
-2	NAS221-10	. SCREW, Brazier head Phillips recess alloy steel 10-32	18	81-
	AN509-416R14	. SCREW	10	4-80
-3	159-13347-1	. DOOR ASSY, WCS upper surface alighting gear access LH	1	81-
	159-13347-2	. DOOR ASSY, WCS upper surface alighting gear access RH	1	81-
	159-13083-1	. DOOR ASSY, WCS upper surface alighting gear access LH	1	4-80
	159-13083-2	. DOOR ASSY, WCS upper surface alighting gear access RH	1	4-80
-4	159-13343	. . DOOR ASSY, Wing center section upper surface fuel and hydraulic line inspection and access	2	
-5	159-13351-11	. . . SPRING, Wing center section door opening (supersedes 159-13351 which may be used interchangeably until stock is exhausted)	1	
-6	MS680	. . . LATCH ASSEMBLY, (Camloc Fastener)	1	
-7	NAS221-8	. . SCREW, Brazier head Phillips recess alloy steel 10-32	1	4-80
-8	159-13335-1	. . STOP ASSEMBLY, WCS access door hinge pin LH.	1	4-80
	159-13335-2	. . STOP ASSEMBLY, WCS access door hinge pin RH.	1	4-80
-9	159-13096	. . HINGE ASSY, WCS upper surface alighting gear access door	1	4-80
-10	159-14113-9	. . . PIN, Wing outer panel lower trailing edge door hinge.	1	4-80
-11	159-14113-7	. . . PIN, Wing outer panel lower trailing edge door hinge.	1	4-80
-12	AN509-10R10	. SCREW (Left wing only)	18	
-13	159-13324	. COVER, WCS gun camera auxiliary (left wing only)	1	
-14	AN509-10R10	. SCREW (used on 159-13100-1, -2 and -102)	20	4-80
	NAS221-10	. SCREW, Brazier head Phillips recess alloy steel 10-32 (used on 159-13100-201, -202 and -301)	20	
-15	159-13295-1	. COVER ASSY, WCS upper surface liquidometer access LH	2	4-80
	159-13295-2	. COVER ASSY, WCS upper surface liquidometer access RH	2	4-80
	159-13295-11	. COVER ASSY, WCS upper surface liquidometer access LH	2	81-
	159-13295-12	. COVER ASSY, WCS upper surface liquidometer access RH	2	81-
-16	AN509-10R10	. SCREW (used on 159-13100-1 and -2 and -102)	8	4-80
	NAS221-10	. SCREW, Brazier head Phillips recess alloy steel 10-32 (used on 159-13100-201, -202 and -301)	8	4-393
-17	159-13302	. COVER ASSY, WCS upper surface control sta 138.812 fuel vent access (used on 159-13100-1, -2 and -102)	1	4-80
	159-13302-11	. COVER ASSY, WCS upper surface control sta 138.812 fuel vent access (used on 159-13100-201, -202 & -301)	1	4-393
-18	AN509-10R10	. SCREW (right wing only)	22	
-19	AN509-416R14	. SCREW (right wing only)	10	
-20	159-13270	. DOOR ASSY, WCS leading edge sta 49.75 to 59 elec access RH	1	
-21	AN509-416R14	. SCREW	9	
-22	159-13269	. DOOR ASSY, WCS leading edge sta 84 to 93 elec access	1	
-23	NAS221-11	. SCREW, Brazier head Phillips recess alloy steel 10-32	36	
-24	159-13049-1	. DOOR ASSY, WCS fuel bay access inboard LH	1	4-393
	159-13049-2	. DOOR ASSY, WCS fuel bay access inboard RH	1	4-393
	174-13049-1	. DOOR ASSY, WCS fuel bay access inboard LH	1	394-
	174-13049-2	. DOOR ASSY, WCS fuel bay access inboard RH	1	394-
-25	159-13355	. SEAL, WCS fuel booster pump drain	1	4-393
-26	159-48094	. SEAL, WCS fuel cell sump drain	1	
-27	159-13266-1	. COVER ASSY, WCS leading edge armament and elec access LH	1	4-528, 594
	159-13266-2	. COVER ASSY, WCS leading edge armament and elec access RH	1	4-528, 594
	174-13266-1	. COVER ASSY, WCS leading edge armament and elec access LH	1	529-593, 595-
	174-13266-2	. COVER ASSY, WCS leading edge armament and elec access RH	1	529-593, 595-
-28	803-2-032	. COVER, Bolt access (North American)	1	
-29	174-13362-1	. COVER ASSY, WCS pitot line access LH	1	394-
	174-13362-2	. COVER ASSY, WCS pitot line access RH	1	394-
-30	AN509-10R10	. SCREW	20	394-
-31	AN509-10R10	. SCREW	22	

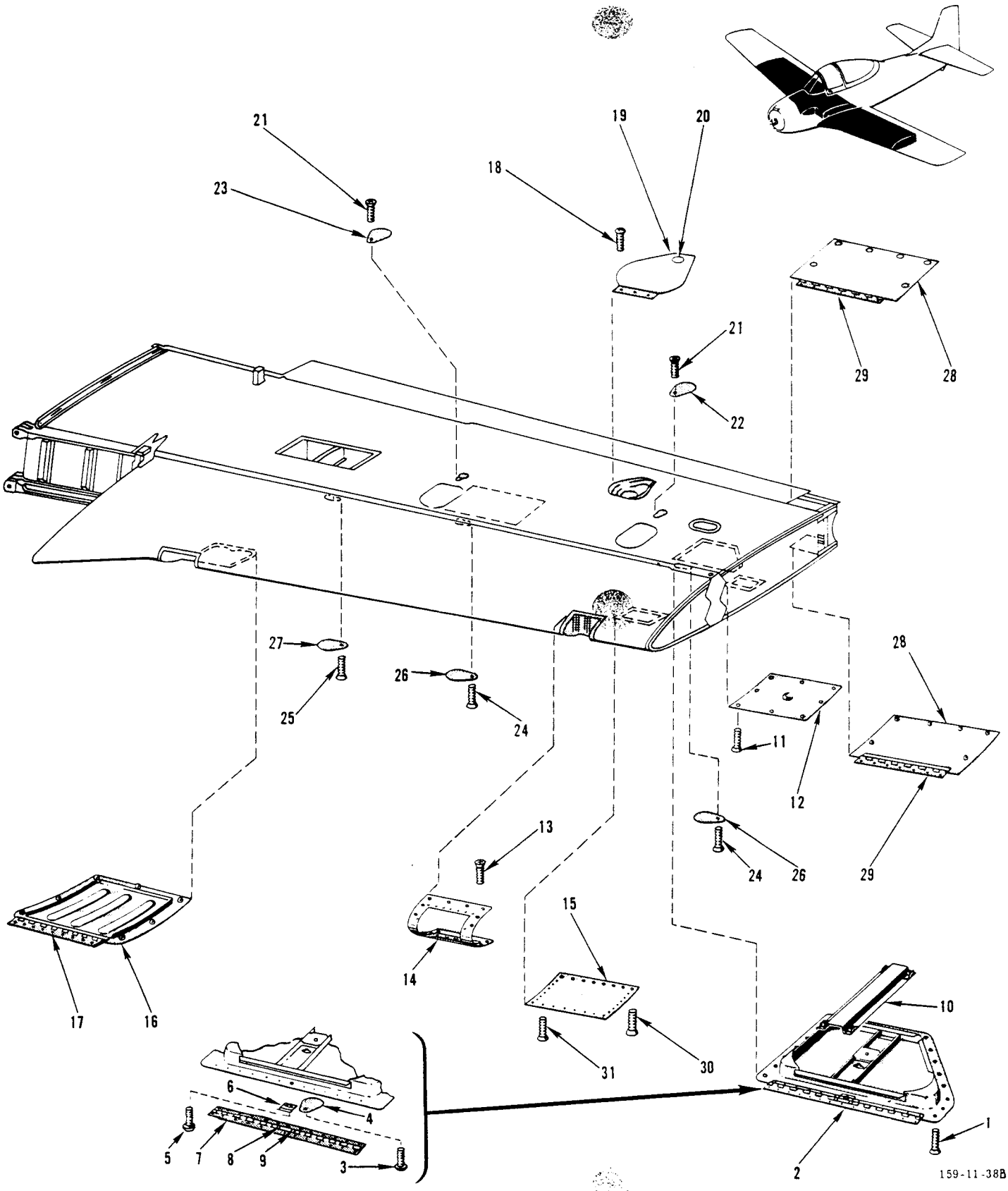


FIGURE 18 - WING CENTER SECTION COVERS AND DOORS (CONTINUED)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
18	No Number		WING CENTER SECTION COVERS AND DOORS (CONTINUED) (see figure 15 and 16 for next assembly)	NP	
-1	NAS221-11	.	SCREW, Brazier head Phillips recess alloy steel 10-32	22	4-80
	NAS221-11	.	SCREW, Brazier head Phillips recess alloy steel 10-32	34	81-
-2	159-13353-1	.	COVER, WCS outboard fuel access LH.	1	81-
	159-13353-2	.	COVER, WCS outboard fuel access RH.	1	81-
	159-13050-1	.	DOOR ASSEMBLY, WCS fuel bay access outboard LH	1	4-80
	159-13050-2	.	DOOR ASSEMBLY, WCS fuel bay access outboard RH	1	4-80
-3	NAS221-8	. .	SCREW, Brazier head Phillips recess alloy steel 10-32.	1	4-80
-4	8C3A2-032	. .	COVER, Bolt access (North American).	1	4-80
-5	NAS221-9	. .	SCREW, Brazier head Phillips recess alloy steel 10-32	1	4-80
-6	159-13335-1	. .	STOP ASSEMBLY, WCS access door hinge pin LH.	1	4-80
	159-13335-2	. .	STOP ASSEMBLY, WCS access door hinge pin RH.	1	4-80
-7	159-13098	. .	HINGE ASSY, WCS lower surface fuel cell access outbd door.	1	4-80
-8	159-14113-11	. . .	PIN, WCP lower trailing edge door hinge	1	4-80
-9	159-14113-5	. . .	PIN, WCP lower trailing edge door hinge	1	4-80
-10	159-13352-1	.	SUPPORT ASSY, WCS outboard fuel cell LH	1	81-
	159-13352-2	.	SUPPORT ASSY, WCS outboard fuel cell RH	1	81-
-11	AN509-10R10	.	SCREW (Used on 159-13100-1, -2, and -102)	8	4-80
	NAS221-10	.	SCREW, Brazier head Phillips recess alloy steel 10-32 (used on 159-13100-201, -202 and -301)	8	
-12	159-13080	.	DOOR ASSEMBLY, WCS station 148 3/8 lower access (used on 159-13100-1, -2 and -102)	1	4-80
	159-13080-11	.	DOOR ASSEMBLY, WCS station 148 3/8 lower access (used on 159-13100-201, -202 and -301)	1	81-
-13	AN509-10R10	.	SCREW (left wing only).	16	
-14	159-54154	.	COVER ASSY, WCS leading edge station 135 5/8 to 143 1/2 passing light (left wing only)	1	
-15	159-13268	.	DOOR ASSEMBLY, WCS leading edge station 135.628 to 143.5. electric access	1	
	159-13006	.	LEADING EDGE ASSEMBLY, Wing center section LH	Ref	
-16	159-66007	. .	DOOR ASSEMBLY, WCS gun camera access (left wing only).	1	
-17	159-66010	. . .	HINGE ASSEMBLY, Camera door (left wing only).	1	
	159-13026	.	STRUCTURE ASSEMBLY, Wing center section intermediate.	Ref	4-393
	174-13026	.	STRUCTURE ASSEMBLY, Wing center section intermediate.	Ref	394-
	159-13002	. .	SKIN ASSEMBLY, Wing center section intermediate upper.	Ref	4-393
	174-13002	. .	SKIN ASSEMBLY, Wing center section intermediate upper.	Ref	394-
-18	NAS221-11	. . .	SCREW, Brazier head Phillips recess alloy steel 10-32	3	4-393
-19	159-48030	. . .	DOOR ASSEMBLY, WCS fuel tank filler neck access	1	4-393
-20	MM580	. . . .	LATCH ASSEMBLY (Camloc Fastener)	1	4-393
-21	AN507-1032-8	. . .	SCREW	2	4-80
	NAS221-8	. . .	SCREW, Brazier head Phillips recess alloy steel 10-32	2	81-
-22	8C3-2-025	. . .	COVER, Bolt access (North American)	1	4-80
	8C3A2-025	. . .	COVER, Bolt access (North American)	1	81-
-23	8C3-2-032	. . .	COVER, Bolt access (North American)	1	4-80
	8C3A2-032	. . .	COVER, Bolt access (North American)	1	81-
	159-13003	. .	SKIN ASSEMBLY, Wing center section lower	Ref	
-24	AN507-1032-8	. . .	SCREW	2	4-80
-25	AN507-1032R12	. . .	SCREW	1	4-80
	NAS221-8	. . .	SCREW, Brazier head Phillips recess alloy steel 10-32	3	81-
-26	8C3-2-032	. . .	COVER, Bolt access (North American)	2	4-80
	8C3A2-032	. . .	COVER, Bolt access (North American)	2	81-
-27	8C3-3-032	. . .	COVER, Bolt access (North American)	1	4-80
	8C3A3-032	. . .	COVER, Bolt access (North American)	1	81-
-28	159-13326-1	. .	DOOR ASSEMBLY, WCS aileron mechanism access upper LH	1	4-80
	159-13326-2	. .	DOOR ASSEMBLY, WCS aileron mechanism access upper RH	1	4-80
	159-13348-1	. .	DOOR ASSEMBLY, WCS aileron mechanism access upper LH	1	81-528
	159-13348-2	. .	DOOR ASSEMBLY, WCS aileron mechanism access upper RH	1	81-528
	174-13348-1	. .	DOOR ASSEMBLY, WCS aileron mechanism access upper LH	1	529-
	174-13348-2	. .	DOOR ASSEMBLY, WCS aileron mechanism access upper RH	1	529-
	159-13327-1	. .	DOOR ASSEMBLY, WCS aileron mechanism access lower LH	1	4-80
	159-13327-2	. .	DOOR ASSEMBLY, WCS aileron mechanism access lower RH	1	4-80
	159-13349-1	. .	DOOR ASSEMBLY, WCS aileron mechanism access lower LH	1	81-
	159-13349-2	. .	DOOR ASSEMBLY, WCS aileron mechanism access lower RH	1	81-
-29	159-13350	. . .	HINGE ASSY, WCS aileron mechanism access door	1	
	H5000-2-040-102	. . .	LATCH ASSY (Hartwell Aviation Supply) (used on 174-13348)	2	529-
-30	AN509-416R14	.	SCREW	8	
-31	AN509-10R10	.	SCREW	20	

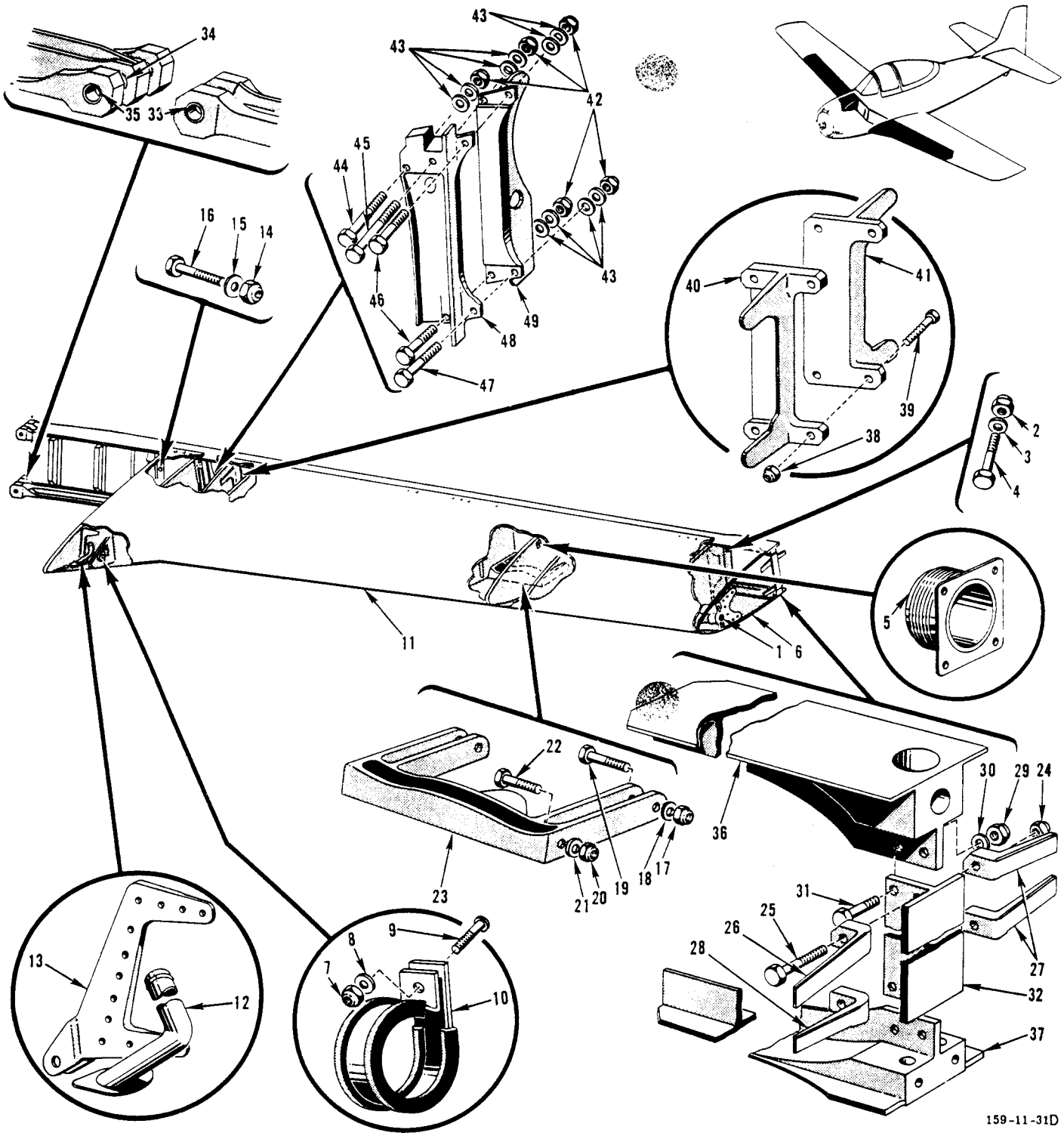


FIGURE 19 - WING CENTER SECTION LEADING EDGE ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
19	159-13006-1	LEADING EDGE ASSEMBLY, WCS LH (see fig. 15 for next assembly) . .	Ref	4-268
	159-13006-101	LEADING EDGE ASSEMBLY, WCS LH (see fig. 15 for next assembly) . .	Ref	269-393
	159-13006-2	LEADING EDGE ASSEMBLY, WCS RH (see fig. 15 for next assembly) . .	Ref	4-393
	159-13006-201	LEADING EDGE ASSEMBLY, WCS LH (see fig. 16 for next assembly) . .	Ref	394-528
	159-13006-202	LEADING EDGE ASSEMBLY, WCS RH (see fig. 16 for next assembly) . .	Ref	394-528
	159-13006-301	LEADING EDGE ASSEMBLY, WCS LH (see fig. 16 for next assembly) . .	Ref	529-
	159-13006-302	LEADING EDGE ASSEMBLY, WCS RH (see fig. 16 for next assembly) . .	Ref	529-
	NOTE: For Covers and Doors See Figure 18			
-1	159-14021-3	. FITTING, Wing outer panel to WCS leading edge	1	
-2	AN365-1032	. NUT (Magnetic inspected)	4	
-3	AN960D10	. WASHER.	4	

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
19-4	AN3-7A	. BOLT (Magnetic inspected)	4	
	159-13109-1	. RIB ASSY, WCS sta 110.75 leading edge LH	1	4-268
	159-13109-21	. RIB ASSY, WCS sta 110.75 leading edge LH (supersedes 159-13109-31)	1	269-
	159-13109-2	. RIB ASSY, WCS sta 110.75 leading edge RH (supersedes 159-13109-32)	1	
-5	2182-18	. . RECEPTACLE (Cannon Electric Development Co)	1	
	159-13154-1	. RIB ASSY, WCS sta 153.375 leading edge LH	1	4-268
	159-13154-21	. RIB ASSY, WCS sta 153.375 leading edge LH	1	269-393
	159-13154-31	. RIB ASSY, WCS sta 153.375 leading edge LH	1	394-
	159-13154-2	. RIB ASSY, WCS sta 153.375 leading edge RH	1	4-393
	159-13154-32	. RIB ASSY, WCS sta 153.375 leading edge RH	1	394-
-6	159-13154-13	. . SEAL, WCS sta 153.375 leading edge (Make from 5W1-2-35-11)	1	
-7	AN365-1032	. NUT (Left wing only)	1	
-8	AN960D10L	. WASHER (Left wing only)	1	
-9	AN520-5-10	. SCREW (Left wing only)	1	
-10	754E24-2-8	. CLAMP (Adel Precision Products) (left wing only)	1	
-11	159-13070-1	. LEADING EDGE ASSY, Wing center section extended LH	1	
	159-13070-2	. LEADING EDGE ASSY, Wing center section extended RH	1	4-393
	159-13070-102	. LEADING EDGE ASSY, Wing center section extended RH	1	394-
-12	159-53383	. . DUCT ASSY, Heat and vent system heater combustion air inlet (left wing only) (supersedes 159-53394)	1	
	159-13142-1	. BEAM ASSY, WCS station 28.750 to station 43.250 nose LH	1	
	159-13142-2	. BEAM ASSY, WCS station 28.750 to station 43.250 nose RH	1	4-393
	159-13142-22	. BEAM ASSY, WCS station 28.750 to station 43.250 nose RH	1	394-
-13	159-13015-1	. . FITTING, WCS to fuselage leading edge attaching LH	1	
	159-13015-2	. . FITTING, WCS to fuselage leading edge attaching RH	1	
-14	AN365-428	. NUT	4	
-15	AN960D416	. WASHER	4	
-16	AN4-6A	. BOLT (Magnetic inspected)	4	
-17	AN365-428	. NUT (Magnetic inspected)	4	
-18	AN960D416	. WASHER	4	
-19	AN4-7A	. BOLT (Magnetic inspected)	4	
-20	AN365-524	. NUT (Magnetic inspected)	2	
-21	AN960D516	. WASHER	2	
-22	AN5-7A	. BOLT (Magnetic inspected)	2	
-23	159-61100-5	. FITTING ASSY, WCS gun and bomb attaching forward LH	1	
	159-61100-6	. FITTING ASSY, WCS gun and bomb attaching forward RH	1	
	159-13004-1	. SPAR ASSEMBLY, Wing center section front LH	1	4-268
	159-13004-101	. SPAR ASSEMBLY, Wing center section front LH	1	269-393
	159-13004-201	. SPAR ASSEMBLY, Wing center section front LH	1	394-
	159-13004-2	. SPAR ASSEMBLY, Wing center section front RH	1	4-393
	159-13004-202	. SPAR ASSEMBLY, Wing center section front RH	1	394-
-24	AN365-428	. . NUT	2	
-25	AN174-14A	. . BOLT (Magnetic inspected)	2	
-26	159-13251-1	. . ANGLE, WCS front spar to nose rib sta 153 7/8 upper bolt LH	1	
	159-13251-2	. . ANGLE, WCS front spar to nose rib sta 153 7/8 upper bolt RH	1	
-27	159-13252	. . ANGLE, WCS front spar to intermediate rib sta 153 7/8 bolt	2	
-28	159-13253-1	. . ANGLE, WCS front spar to nose rib sta 153 7/8 lower bolt LH	1	
	159-13253-2	. . ANGLE, WCS front spar to nose rib sta 153 7/8 lower bolt RH	1	
-29	AN365-1032	. . NUT	2	
-30	AN960D10	. . WASHER	2	
-31	AN173-7A	. . BOLT (supersedes 33-7A)	2	
-32	159-13023-1	. . ANGLE ASSY, WCS front spar sta 153 7/8 rib attach tee LH	1	
	159-13023-2	. . ANGLE ASSY, WCS front spar sta 153 7/8 rib attach tee RH	1	
	159-13011	. . CAP ASSY, Wing center section front spar upper LH	1	
	159-13009	. . CAP ASSY, Wing center section front spar upper RH	1	
	159-13012	. . CAP ASSY, Wing center section front spar lower LH	1	
	159-13010	. . CAP ASSY, Wing center section front spar lower RH	1	
-33	4B19S14-031	. . . BUSHING, Press fit plain (North American)	2	
-34	4B19S14-031	. . . BUSHING, Press fit plain (North American)	1	
-35	4B19S14-015	. . . BUSHING, Press fit plain (North American)	2	
-36	159-13016-1	. . FITTING, WCS to wing outer panel front spar upper LH	1	
	159-13016-2	. . FITTING, WCS to wing outer panel front spar upper RH	1	
-37	159-13017-1	. . FITTING, WCS to wing outer panel front spar lower LH	1	
	159-13017-2	. . FITTING, WCS to wing outer panel front spar lower RH	1	
-38	AN365-524	. . NUT	4	
-39	AN5-15A	. . BOLT (Magnetic inspected)	4	
-40	159-13089	. . FITTING, WCS station 43.25 front spar forward	1	
-41	159-13090-1	. . FITTING, WCS Station 43.25 front spar aft LH	1	
	159-13090-2	. . FITTING, WCS station 43.25 front spar aft RH	1	
-42	AN365-428	. . NUT	5	
-43	AN960D416	. . WASHER	10	
-44	AN174-26A	. . BOLT (Magnetic inspected)	1	
-45	AN174-30A	. . BOLT (Magnetic inspected)	1	
-46	AN174-12A	. . BOLT (Magnetic inspected)	2	
-47	AN174-11A	. . BOLT (Magnetic inspected)	1	
-48	159-13013-1	. . FITTING, WCS to fuselage front spar attaching LH	1	
	159-13013-2	. . FITTING, WCS to fuselage front spar attaching RH	1	
-49	159-13148-1	. . FITTING, Wing center section station 28.75 forward intermediate rib to front spar attaching LH	1	
	159-13148-2	. . FITTING, Wing center section station 28.75 forward intermediate rib to front spar attaching RH	1	

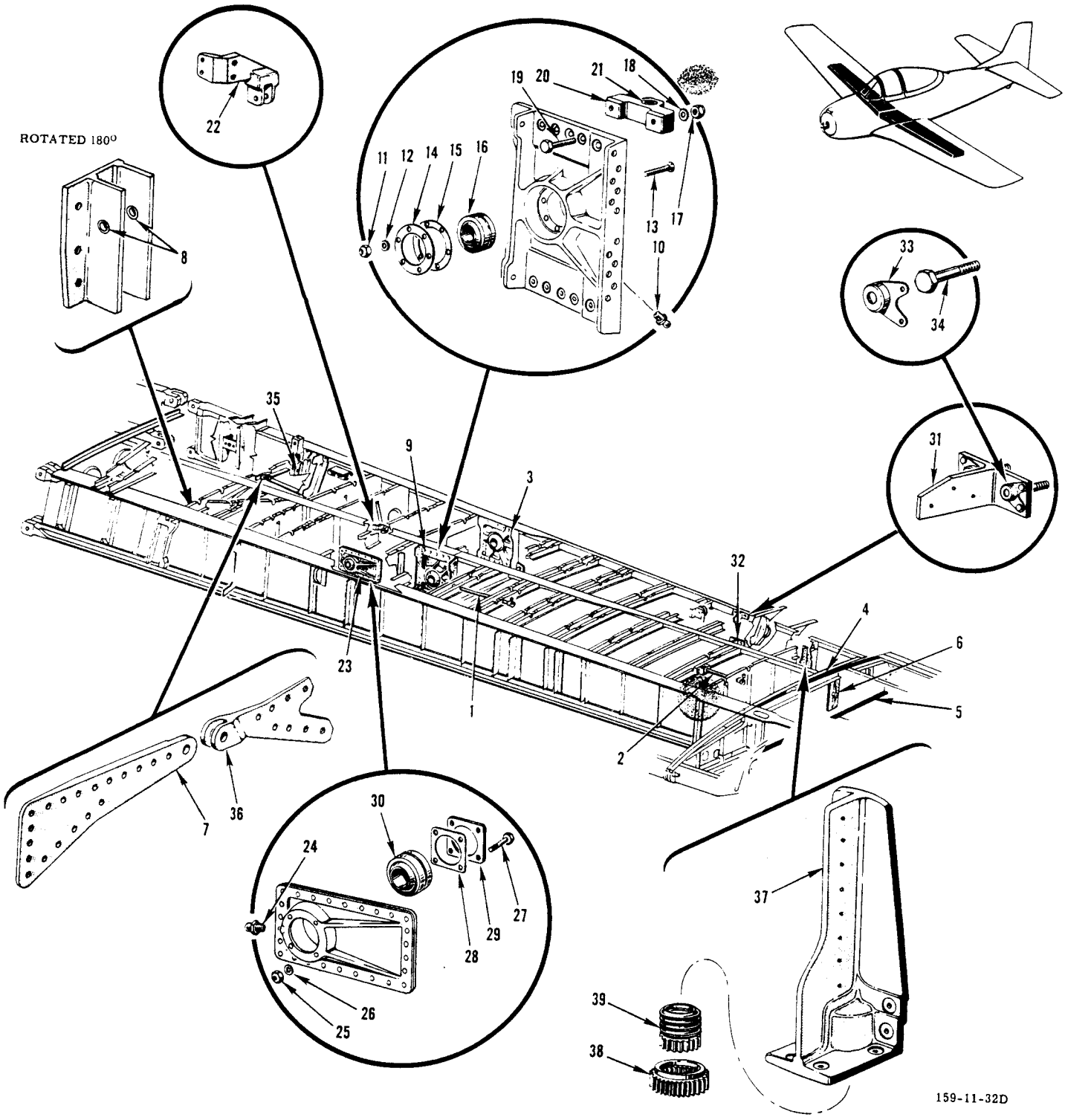


FIGURE 20 - WING CENTER SECTION INTERMEDIATE STRUCTURE ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
20	159-13026-1		STRUCTURE ASSY, WCS intermediate LH (see fig. 15 for next assy) .	Ref	4-80
	159-13026-2		STRUCTURE ASSY, WCS intermediate RH (see fig. 15 for next assy) .	Ref	4-40
	159-13026-202		STRUCTURE ASSY, WCS intermediate RH (see fig. 15 for next assy) .	Ref	41-80
	159-13026-101		STRUCTURE ASSY, WCS intermediate LH (see fig. 15 for next assy) .	Ref	81-268
	159-13026-301		STRUCTURE ASSY, WCS intermediate LH (see fig. 15 for next assy) .	Ref	269-393
	159-13026-102		STRUCTURE ASSY, WCS intermediate RH (see fig. 15 for next assy) .	Ref	81-393
	NOTE: For Covers and Doors See Figure 18				
	159-13002-1		. SKIN ASSEMBLY, WCS intermediate upper LH	1	4-80
	159-13002-2		. SKIN ASSEMBLY, WCS intermediate upper RH	1	4-80
	159-13002-101		. SKIN ASSEMBLY, WCS intermediate upper LH	1	81-268
	159-13002-201		. SKIN ASSEMBLY, WCS intermediate upper LH	1	269-393

WING (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
20	159-13002-102	. SKIN ASSEMBLY, WCS intermediate upper RH	1	81-393
		NOTE: For Covers and Doors See Figure 18		
-1	159-54156-3	. . CONDUIT, WCS elec wire harness (to inbd transmitter)	1	4-393
-2	159-54156-5	. . CONDUIT, WCS elec wire harness (to outbd transmitter)	1	4-393
	159-13003-1	. SKIN ASSEMBLY, Wing center section lower LH	1	4-80
	159-13003-2	. SKIN ASSEMBLY, Wing center section lower RH	1	4-80
	159-13003-101	. SKIN ASSEMBLY, Wing center section lower LH	1	81-393
	159-13003-102	. SKIN ASSEMBLY, Wing center section lower RH	1	81-393
		NOTE: For Covers See Figure 18		
-3	159-13007-1	. TRAILING EDGE ASSY, WCS inbd LH (see Fig. 22 for breakdown)	1	4-80
	159-13007-2	. TRAILING EDGE ASSY, WCS inbd RH (see Fig. 22 for breakdown)	1	4-40
	159-13007-202	. TRAILING EDGE ASSY, WCS inbd RH (see Fig. 22 for breakdown)	1	41-80
	159-13007-101	. TRAILING EDGE ASSY, WCS inbd LH (see Fig. 22 for breakdown)	1	81-393
	159-13007-102	. TRAILING EDGE ASSY, WCS inbd RH (see Fig. 22 for breakdown)	1	81-393
	159-13155-1	. RIB ASSEMBLY, WCS sta 153.875 intermediate LH	1	4-393
	159-13155-2	. RIB ASSEMBLY, WCS sta 153.875 intermediate RH	1	4-393
-4	159-13155-15	. . SEAL, WCS sta 153.875 intermediate upper (make from 5W1-2)	1	4-393
-5	159-13155-17	. . SEAL, WCS sta 153.875 intermediate lower (make from 5W1-2)	1	4-393
-6	159-13158-3	. . FITTING, Wing center section to wing outer panel aft	1	4-393
	159-13008	. STRUCTURE ASSEMBLY, WCS intermediate	Ref	
	159-13030-1	. . RIB ASSEMBLY, WCS sta 28.750 forward intermediate LH	1	4-393
	159-13030-2	. . RIB ASSEMBLY, WCS sta 28.750 forward intermediate RH	1	4-393
-7	159-13132-1	. . . FITTING, Wing center section station 28.75 forward intermediate rib aft attaching LH	1	4-393
	159-13132-2	. . . FITTING, Wing center section station 28.75 forward intermediate rib aft attaching RH	1	4-393
	159-33352-1	. . . BRACKET ASSY, Main alighting gear door actuating mech pivot forward LH	1	4-393
	159-33352-2	. . . BRACKET ASSY, Main alighting gear door actuating mech pivot forward RH	1	4-393
-8	+B19S3-004	. . . . BUSHING, Press fit plain (North American)	2	4-393
	159-13105-1	. . BEAM ASSEMBLY, WCS main alighting gear support LH	1	4-393
	159-13105-2	. . BEAM ASSEMBLY, WCS main alighting gear support RH	1	4-393
-9	159-33125-5	. . . FITTING ASSY, Main alighting gear trunnion LH	1	4-393
	159-33125-6	. . . FITTING ASSY, Main alighting gear trunnion RH	1	4-393
-10	MAS2-101	. . . . FITTING, Lubrication	1	4-393
-11	AN365-1032	. . . . NUT	6	4-393
-12	AN960-10	. . . . WASHER	6	4-393
-13	AN509-10R27	. . . . SCREW	6	4-393
-14	159-33128	. . . . RETAINER, Main landing gear trunnion bearing	1	4-393
-15	159-33130	. . . . SHIM, Main alighting gear trunnion bearing retainer	1	4-393
-16	159-33127	. . . . BEARING ASSY, Main alighting gear trunnion fitting	1	4-393
-17	AN365-524	. . . NUT (magnetic inspected)	2	4-393
-18	AN960D516	. . . WASHER	2	4-393
-19	AN5-17A	. . . BOLT (magnetic inspected)	2	4-393
-20	159-13339	. . . FITTING ASSEMBLY, Wing hoist	1	4-393
-21	R312SH16	. . . . INSERT (Rosan)	1	4-393
	R172SB11	. . . . RING (Rosan)	1	4-393
-22	159-33131-3	. . . FITTING, Main alighting gear side brace bungee LH	1	4-393
	159-33131-4	. . . FITTING, Main alighting gear side brace bungee RH	1	4-393
-23	159-33135-5	. . . FITTING ASSY, Main alighting gear side brace shaft	1	4-393
-24	MAS2-101	. . . . FITTING, Lubrication	1	4-393
-25	AN365-1032	. . . . NUT	4	4-393
-26	AN960-10	. . . . WASHER	4	4-393
-27	AN3-13A	. . . . BOLT	4	4-393
-28	159-33138	. . . . SHIM, Main alighting gear side brace shaft bearing	1	4-393
-29	159-33137	. . . . RETAINER, Main alighting gear side brace shaft brg	1	4-393
-30	159-33136	. . . . BEARING ASSEMBLY, Main alighting gear drag brace shaft fitting	1	4-393
-31	159-18213-1	. FITTING ASSEMBLY, Flap outboard hinge upper attaching LH	1	4-393
	159-18213-2	. FITTING ASSEMBLY, Flap outboard hinge upper attaching RH	1	4-393
-32	159-18223-1	. FITTING ASSEMBLY, Flap outboard hinge lower attaching LH	1	4-393
	159-18223-2	. FITTING ASSEMBLY, Flap outboard hinge lower attaching RH	1	4-393
-33	6320-048	. . RETAINER, Bolt (Nutt-Shell)	2	4-393
-34	AN4-13A	. . BOLT	2	4-393
	159-13130-1	. RIB ASSEMBLY, WCS station 28.750 aft intermediate LH	1	4-393
	159-13130-2	. RIB ASSEMBLY, WCS station 28.750 aft intermediate RH	1	4-393
	159-33353-3	. . BRACKET ASSEMBLY, Main alighting gear door actuating mechanism rear pivot LH	1	4-393
	159-33353-4	. . BRACKET ASSEMBLY, Main alighting gear door actuating mechanism rear pivot RH	1	4-393
	159-33353-5	. . BRACKET ASSEMBLY, Main alighting gear door actuating mechanism rear pivot LH	1	4-393
	159-33353-6	. . BRACKET ASSEMBLY, Main alighting gear door actuating mechanism rear pivot RH	1	4-393
-35	+B19S3-004	. . . BUSHING, Press fit plain (North American)	1	4-393
-36	159-13131-1	. . FITTING, Wing center section sta 28.75 aft intermediate rib forward attaching LH	1	4-393
	159-13131-2	. . FITTING, Wing center section sta 28.75 aft intermediate rib forward attaching RH	1	4-393
-37	159-13038-5	. FITTING ASSEMBLY, WCS station 143.5 jacking and mooring LH	1	4-393
	159-13038-6	. FITTING ASSEMBLY, WCS station 143.5 jacking and mooring RH	1	4-393
-38	R172SB11	. . RING (Rosan)	1	4-393
-39	R312SH16	. . INSERT (Rosan)	1	4-393

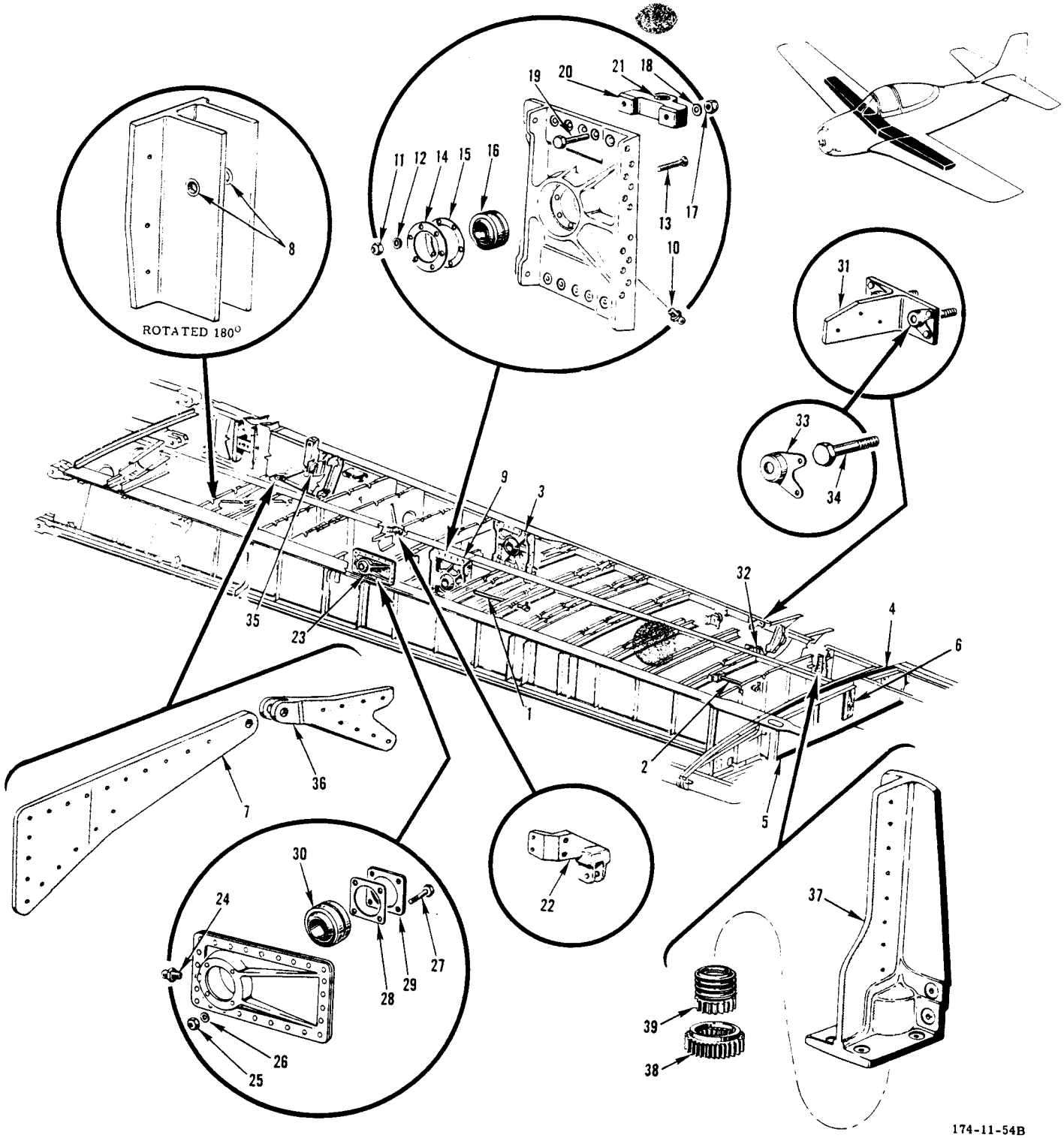


FIGURE 21 - WING CENTER SECTION INTERMEDIATE STRUCTURE ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
21	174-13026-1	STRUCTURE ASSY, WCS intermediate LH (superseded by 174-13026-101 174-13026-1 may be used interchangeably with 174-13026-101 until stock is exhausted) see fig. 16 for next assembly)	Ref	394-528
	174-13026-2	STRUCTURE ASSY, WCS intermediate RH (superseded by 174-13026-102 174-13026-2 may be used interchangeably with 174-13026-102 until stock is exhausted) (see fig. 16 for next assembly)	Ref	394-528
	174-13026-101	STRUCTURE ASSY, WCS intermediate LH (supersedes 174-13026-1 . . for future procurement) (see fig. 16 for next assy)	Ref	394-

WING (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
21	174-13026-102		STRUCTURE ASSY, WCS intermediate RH (supersedes 174-13026-2 for future procurement) see fig. 16 for next assembly)	Ref	394-
			NOTE: For Covers and Doors See Figure 18		
	174-13002-1	.	SKIN ASSEMBLY, WCS intermediate upper LH	1	394-
	174-13002-2	.	SKIN ASSEMBLY, WCS intermediate upper RH	1	394-
			NOTE: For Covers and Doors See Figure 18		
-1	159-54156-3	. .	CONDUIT, WCS elec wire harness (to inboard transmitter)	1	394-
-2	159-54156-5	. .	CONDUIT, WCS elec wire harness (to outboard transmitter)	1	394-
	159-13003-201	.	SKIN ASSEMBLY, Wing center section lower LH	1	394-
	159-13003-202	.	SKIN ASSEMBLY, Wing center section lower RH	1	394-
			NOTE: For Covers See Figure 18		
-3	159-13007-301	.	TRAILING EDGE ASSY, WCS Inbd LH (see fig. 23 for breakdown)	1	394-528
	159-13007-302	.	TRAILING EDGE ASSY, WCS Inbd RH (see fig. 23 for breakdown)	1	394-528
	159-13007-401	.	TRAILING EDGE ASSY, WCS Inbd LH (see fig. 23 for breakdown)	1	529-
	159-13007-402	.	TRAILING EDGE ASSY, WCS Inbd RH (see fig. 23 for breakdown)	1	529-
	174-13155-1	.	RIB ASSEMBLY, WCS station 153.875 intermediate LH	1	394-
	174-13155-2	.	RIB ASSEMBLY, WCS station 153.875 intermediate RH	1	394-
-4	174-13155-15	. .	SEAL, WCS sta 153.875 intermediate upper (make from 5W1-2)	1	394-
-5	174-13155-17	. .	SEAL, WCS sta 153.875 intermediate lower (make from 5W1-2)	1	394-
-6	159-13158-3	. .	FITTING, Wing center section to wing outer panel aft	1	394-
	159-13008	.	STRUCTURE ASSEMBLY, WCS intermediate	Ref	
	159-13030-21	. .	RIB ASSEMBLY, WCS sta 28.750 forward intermediate LH	1	394-
	159-13030-22	. .	RIB ASSEMBLY, WCS sta 28.750 forward intermediate RH	1	394-
-7	159-13132-1	. . .	FITTING, Wing center section station 28.75 forward intermediate rib aft attaching LH	1	394-
	159-13132-2	. . .	FITTING, Wing center section station 28.75 forward intermediate rib aft attaching RH	1	394-
	159-33352-1	. . .	BRACKET ASSY, Main alighting gear door actuating mech pivot forward LH	1	394-
	159-33352-2	. . .	BRACKET ASSY, Main alighting gear door actuating mech pivot forward RH	1	394-
-8	4B19S3-004	. . . .	BUSHING, Press fit plain (North American)	2	
	159-13105-1	. .	BEAM ASSEMBLY, WCS main alighting gear support LH	1	394-
	159-13105-2	. .	BEAM ASSEMBLY, WCS main alighting gear support RH	1	394-
-9	159-33125-5	. . .	FITTING ASSY, Main alighting gear trunnion LH	1	394-
	159-33125-6	. . .	FITTING ASSY, Main alighting gear trunnion RH	1	394-
-10	NAS2-101	. . . .	FITTING, Lubrication	1	394-
-11	AN365-1032	. . . .	NUT	8	394-
-12	AN960-10	. . . .	WASHER	8	394-
-13	AN509-10R27	. . . .	SCREW	6	394-
-14	159-33128	. . . .	RETAINER, Main landing gear trunnion bearing	1	394-
-15	159-33130	. . . .	SHIM, Main alighting gear trunnion bearing retainer	1	394-
-16	159-33127	. . . .	BEARING ASSY, Main alighting gear trunnion fitting	1	394-
-17	AN365-524	. . . .	NUT (magnetic inspected)	2	394-
-18	AN960D516	. . . .	WASHER	2	394-
-19	AN5-17A	. . . .	BOLT (magnetic inspected)	2	394-
-20	159-13339	. . . .	FITTING ASSEMBLY, Wing hoist	1	394-
-21	R312SH16	. . . . .	INSERT (Rosan)	1	394-
	RL72SB11	. . . . .	RING (Rosan)	1	394-
-22	159-33131-3	. . .	FITTING, Main alighting gear side brace bungee LH	1	394-
	159-33131-4	. . .	FITTING, Main alighting gear side brace bungee RH	1	394-
-23	159-33135-5	. . .	FITTING ASSY, Main alighting gear side brace shaft	1	394-
-24	NAS2-101	. . . .	FITTING, Lubrication	1	394-
-25	AN365-1032	. . . .	NUT	4	394-
-26	AN960-10	. . . .	WASHER	4	394-
-27	AN3-13A	. . . .	BOLT	4	394-
-28	159-33138	. . . .	SHIM, Main alighting gear side brace shaft bearing	1	394-
-29	159-33137	. . . .	RETAINER, Main alighting gear side brace shaft brg	1	394-
-30	159-33136	. . . .	BEARING ASSY, Main alighting gear drag brace shaft fitting	1	394-
-31	159-18213-1	.	FITTING ASSEMBLY, Flap outboard hinge upper attaching LH	1	394-
	159-18213-2	.	FITTING ASSEMBLY, Flap outboard hinge upper attaching RH	1	394-
-32	159-18223-1	.	FITTING ASSEMBLY, Flap outboard hinge lower attaching LH	1	394-
	159-18223-2	.	FITTING ASSEMBLY, Flap outboard hinge lower attaching RH	1	394-
-33	6820-048	. .	RETAINER, Bolt (Nutt-Shel)	2	394-
-34	AN4-12A	. .	BOLT	2	394-
	159-13130-1	.	RIB ASSEMBLY, WCS station 28.750 aft intermediate LH	1	394-
	159-13130-2	.	RIB ASSEMBLY, WCS station 28.750 aft intermediate RH	1	394-
	159-33353-3	. .	BRACKET ASSEMBLY, Main alighting gear door actuating mechanism rear pivot LH	1	394-
	159-33353-4	. .	BRACKET ASSEMBLY, Main alighting gear door actuating mechanism rear pivot RH	1	394-
	159-33353-5	. .	BRACKET ASSEMBLY, Main alighting gear door actuating mechanism rear pivot LH	1	394-
	159-33353-6	. .	BRACKET ASSEMBLY, Main alighting gear door actuating mechanism rear pivot RH	1	394-
-35	4B19S3-004	. . .	BUSHING, Press fit plain (North American)	1	394-
-36	159-13131-1	. .	FITTING, WCS sta 28.75 aft intermediate rib forward attaching LH	1	394-
	159-13131-2	. .	FITTING, WCS sta 28.75 aft intermediate rib forward attaching RH	1	394-
-37	159-13038-5	.	FITTING ASSEMBLY, WCS sta 143.5 jacking and mooring LH	1	394-
	159-13038-6	.	FITTING ASSEMBLY, WCS sta 143.5 jacking and mooring RH	1	394-
-38	RL72SB11	. .	RING (Rosan)	1	394-
-39	R312SH16	. .	INSERT (Rosan)	1	394-

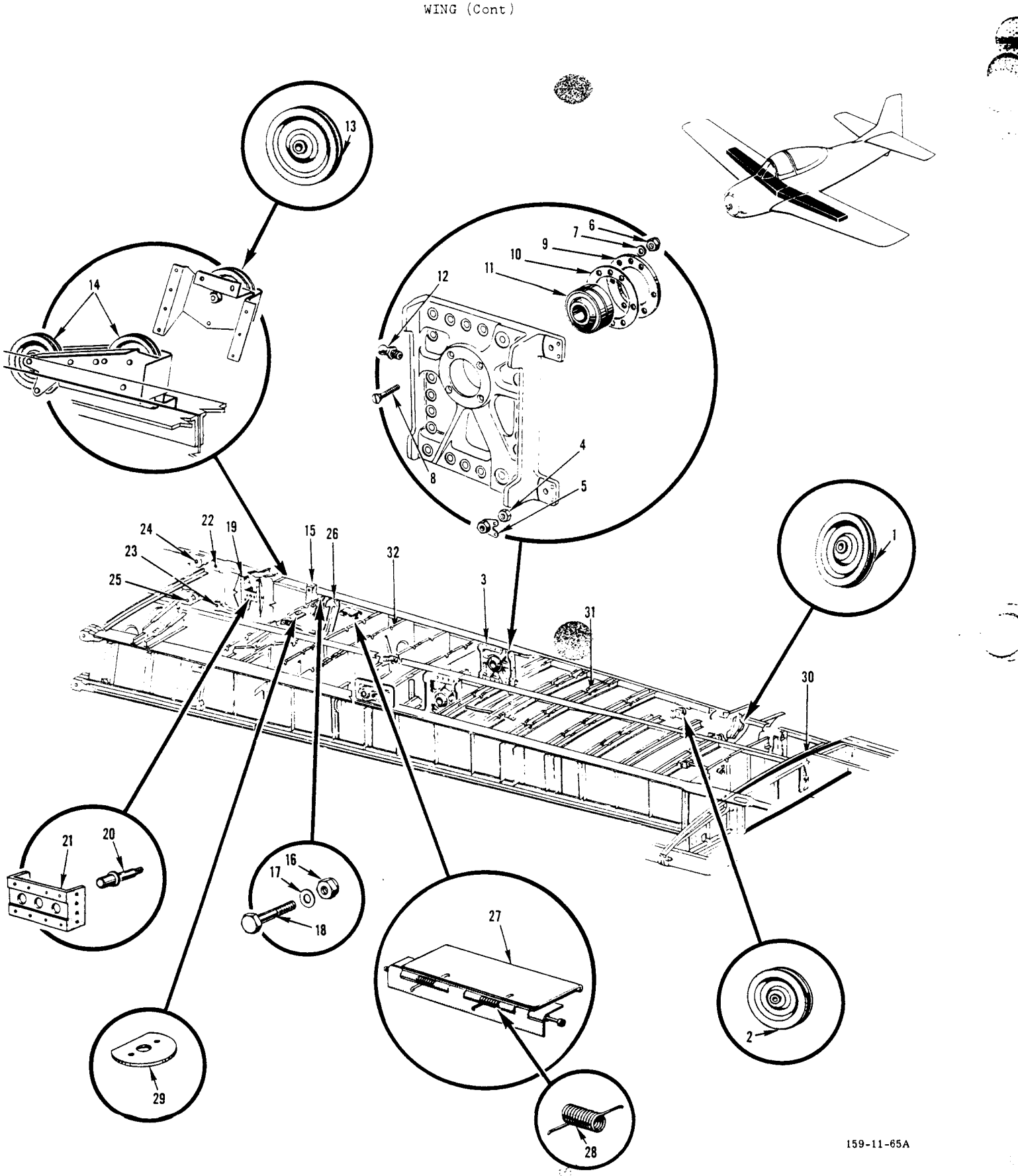


FIGURE 22 - WING CENTER SECTION INBOARD TRAILING EDGE ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
22	159-13007-1	TRAILING EDGE ASSY, WCS inbd LH (see fig. 20 for next assy)	Ref	4-80
	159-13007-2	TRAILING EDGE ASSY, WCS inbd RH (see fig. 20 for next assy)	Ref	4-40
	159-13007-202	TRAILING EDGE ASSY, WCS inbd RH (see fig. 20 for next assy)	Ref	41-80
	159-13007-101	TRAILING EDGE ASSY, WCS inbd LH (see fig. 20 for next assy)	Ref	81-393
	159-13007-102	TRAILING EDGE ASSY, WCS inbd RH (see fig. 20 for next assy)	Ref	81-393
	159-52313-1	. BRACKET ASSY, Aileron control cable pulley LH	1	4-393
	159-52313-2	. BRACKET ASSY, Aileron control cable pulley RH	1	4-393
-1	AN210-3A	. . PULLEY	1	4-393
	159-13005-1	. SPAR ASSEMBLY, Wing center section rear LH	1	4-393
	159-13005-2	. SPAR ASSEMBLY, Wing center section rear RH	1	4-393
	159-52314	. . BRACKET ASSEMBLY, Aileron trim tab control pulley wing station 120 LH side	1	4-393
-2	AN210-1A	. . . PULLEY	1	4-393
-3	159-33126-5	. . FITTING ASSY, Main alighting gear trunnion rear LH	1	4-393
	159-33126-6	. . FITTING ASSY, Main alighting gear trunnion rear RH	1	4-393
-4	AN365-624	. . . NUT	2	4-393
-5	6620-064	. . . RETAINER, Nut (Nutt-Shel)	2	4-393
-6	AN365-1032	. . . NUT	4	4-393
-7	AN960-10	. . . WASHER	4	4-393
-8	AN509-10R26	. . . SCREW	4	4-393
-9	159-33128	. . . RETAINER, Main alighting gear trunnion bearing	1	4-393
-10	159-33130	. . . SHIM, Main alighting gear trunnion bearing retainer	1	4-393
-11	159-33127	. . . BEARING ASSY, Main alighting gear trunnion fitting (Clevenger Engineering Co. No. CSB600-64)	1	4-393
-12	NAS2-101	. . . FITTING, Lubrication	1	4-393
	159-52316-1	. . BRACKET ASSEMBLY, Aileron control cable pulley wing station 26 upper LH	1	4-393
	159-52316-2	. . BRACKET ASSEMBLY, Aileron control cable pulley wing station 26 upper RH	1	4-393
-13	AN210-4A	. . . PULLEY	1	4-393
	159-52317	. . BRACKET ASSEMBLY, Aileron trim tab control cable pulley wing spar 18	1	4-393
-14	AN210-2A	. . . PULLEY	2	4-393
-15	159-13014	. . FITTING, WCS to fuselage rear spar attaching	1	4-393
	ATTACHING PARTS			
-16	AN365-428	. . NUT (Magnetic inspected)	4	4-393
-17	AN960D416	. . WASHER	4	4-393
-18	AN4-11A	. . BOLT (Magnetic inspected)	4	4-393
	---*---			
-19	159-52307-1	. . SUPPORT ASSY, Aileron control quadrant inboard LH	1	4-393
	159-52307-2	. . SUPPORT ASSEMBLY, Aileron control quadrant inbd RH	1	4-393
-20	159-52320	. . . PIVOT, Aileron control inboard quadrant	1	4-393
-21	159-52310	. . . SUPPORT, Aileron control quadrant inboard	1	4-393
	159-13018	. . CAP ASSEMBLY, Wing center section rear spar upper LH	1	4-393
-22	4B19S12-030	. . . BUSHING, Press fit plain (North American)	1	4-393
	159-13019	. . CAP ASSEMBLY, Wing center section rear spar lower LH	1	4-393
-23	4B19S10-030	. . . BUSHING, Press fit plain (North American)	1	4-393
	159-13024	. . CAP ASSEMBLY, Wing center section rear spar upper RH	1	4-393
-24	4B19S12-015	. . . BUSHING, Press fit plain (North American)	2	4-393
	159-13025	. . CAP ASSEMBLY, Wing center section rear spar lower RH	1	4-393
-25	4B19S10-015	. . . BUSHING, Press fit plain (North American)	2	4-393
-26	159-13149-1	. . FITTING, Wing center section station 28.75 aft intermediate rib to rear spar attaching LH	1	4-393
	159-13149-2	. . FITTING, Wing center section station 28.75 aft intermediate rib to rear spar attaching RH	1	4-393
-27	159-13160	. DOOR ASSEMBLY, WCS shroud step hand hold	1	4-393
-28	134-51081	. . SPRING, Instrument panel close-out door	2	4-393
-29	159-10013	. WASHER, Wing to fuselage fillet skin reinforcement	2	4-393
-30	159-13007-21	. SEAL, WCS inboard trailing edge (lower edge)	1	4-393
-31	159-13007-23	. SEAL, WCS inboard trailing edge (lower edge)	1	4-393
-32	159-13007-25	. SEAL, WCS inboard trailing edge (lower edge)	1	4-393

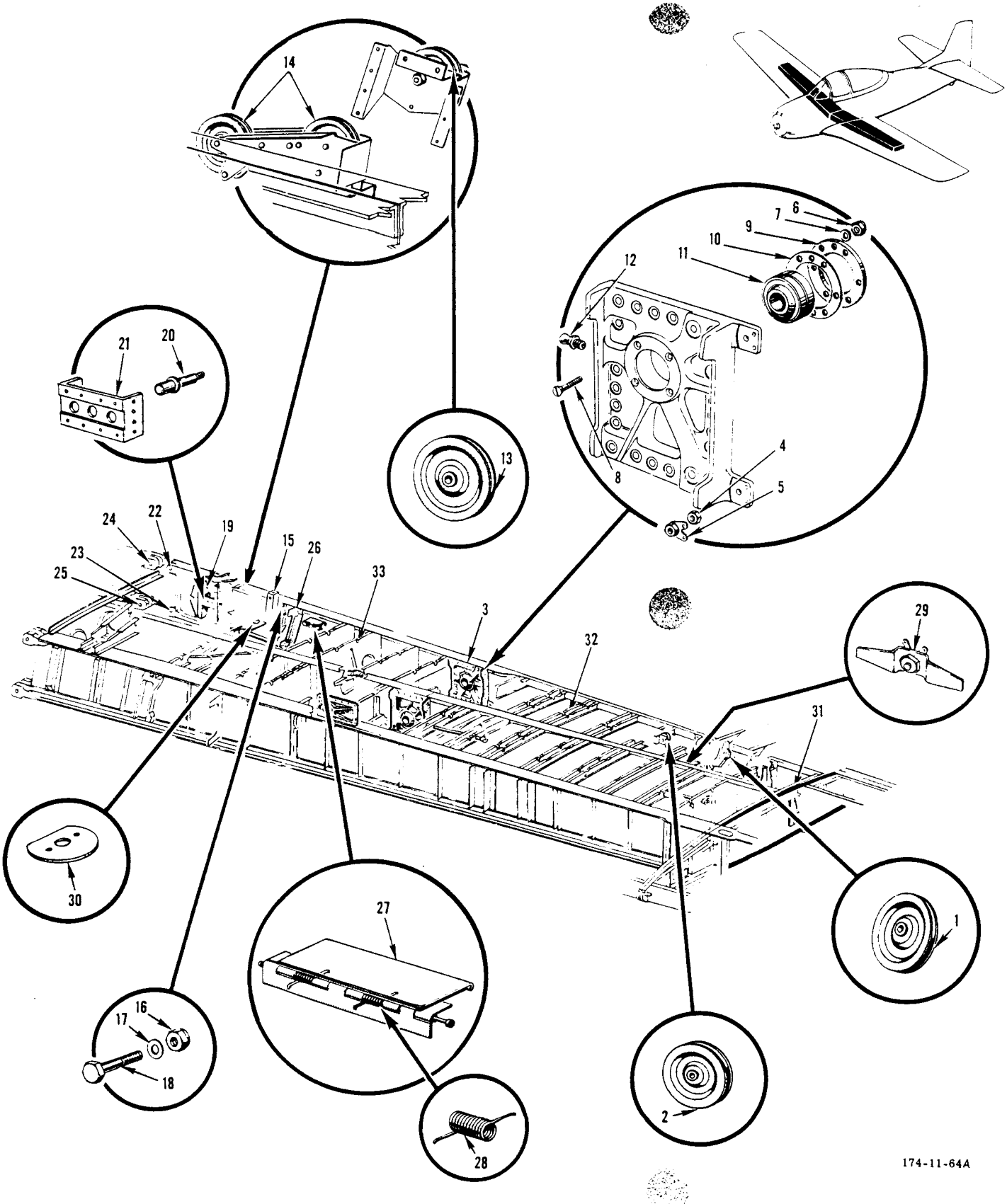


FIGURE 23 - WING CENTER SECTION INBOARD TRAILING EDGE ASSEMBLIES

WING (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
23	159-13007-301	TRAILING EDGE ASSEMBLY, Wing center section inboard LH . . . . . (see figure 21 for next assembly)	Ref	394-528
	159-13007-302	TRAILING EDGE ASSEMBLY, Wing center section inboard RH . . . . . (see figure 21 for next assembly)	Ref	394-528
	159-13007-401	TRAILING EDGE ASSEMBLY, Wing center section inboard LH . . . . . (see figure 21 for next assembly)	Ref	529-
	159-13007-402	TRAILING EDGE ASSEMBLY, Wing center section inboard RH . . . . . (see figure 21 for next assembly)	Ref	529-
	159-52313-1	. BRACKET ASSEMBLY, Aileron control cable pulley LH	1	394-
	159-52313-2	. BRACKET ASSEMBLY, Aileron control cable pulley RH	1	394-
-1	AN210-3A	. . PULLEY	1	394-
	159-13005-101	. SPAR ASSEMBLY, Wing center section rear LH	1	394-
	159-13005-102	. SPAR ASSEMBLY, Wing center section rear RH	1	394-
	159-52314	. . BRACKET ASSEMBLY, Aileron trim tab control pulley . . . . wing station 120 LH side	1	394-
-2	AN210-1A	. . . PULLEY	1	394-
-3	159-33126-5	. . FITTING ASSEMBLY, Main alighting gear trunnion rear LH . .	1	394-
	159-33126-6	. . FITTING ASSEMBLY, Main alighting gear trunnion rear RH . .	1	394-
-4	AN365-624	. . . NUT	2	394-
-5	6621-064	. . . RETAINER, Nut (Nutt-Shel)	2	394-
-6	AN365-1032	. . . NUT	4	394-
-7	AN960-10	. . . WASHER	4	394-
-8	AN509-10R26	. . . SCREW	4	394-
-9	159-33128	. . . RETAINER, Main alighting gear trunnion bearing	1	394-
-10	159-33130	. . . SHIM, Main alighting gear trunnion bearing retainer . .	1	394-
-11	159-33127	. . . BEARING ASSY, Main alighting gear trunnion fitting . . (Clevenger Engineering Co. No. CSB600-6-)	1	394-
-12	MAS2-101	. . . FITTING, Lubrication	1	394-
	159-52316-1	. . BRACKET ASSEMBLY, Aileron control cable pulley wing . . . station 88 upper LH	1	394-
	159-52316-2	. . BRACKET ASSEMBLY, Aileron control cable pulley wing . . . station 88 upper RH	1	394-
-13	AN210-4A	. . . PULLEY	1	394-
	159-52317	. . BRACKET ASSEMBLY, Aileron trim tab control cable . . . . . pulley wing spar 18	1	394-
-14	AN210-2A	. . . PULLEY	2	394-
-15	159-13014	. . FITTING, Wing center section to fuselage rear spar . . . . attaching	1	394-
	ATTACHING PARTS			
-16	AN365-428	. . NUT (magnetic inspected)	4	394-
-17	AN960D416	. . WASHER	4	394-
-18	AN4-11A	. . BOLT (magnetic inspected)	4	394-
	---*---			
-19	159-52307-1	. . SUPPORT ASSY, Aileron control quadrant inboard LH	1	394-
	159-52307-2	. . SUPPORT ASSY, Aileron control quadrant inboard RH	1	394-
-20	159-52320	. . . PIVOT, Aileron control inboard quadrant	1	394-
-21	159-52310	. . . SUPPORT, Aileron control quadrant inboard	1	394-
	159-13018-11	. . CAP ASSEMBLY, Wing center section rear spar upper LH . . .	1	394-
-22	+B19S12-030	. . . BUSHING, Press fit plain (North American)	1	394-
	159-13019	. . CAP ASSEMBLY, Wing center section rear spar lower LH . . .	1	394-
-23	+B19S10-030	. . . BUSHING, Press fit plain (North American)	1	394-
	159-13024-11	. . CAP ASSEMBLY, Wing center section rear spar upper RH . . .	1	394-
-24	+B19S12-015	. . . BUSHING, Press fit plain (North American)	2	394-
	159-13025	. . CAP ASSEMBLY, Wing center section rear spar lower RH . . .	1	394-
-25	+B19S10-015	. . . BUSHING, Press fit plain (North American)	2	394-
-26	159-13149-1	. . FITTING, Wing center section station 28.75 aft . . . . . intermediate rib to rear spar attaching LH	1	394-
	159-13149-2	. . FITTING, Wing center section station 28.75 aft . . . . . intermediate rib to rear spar attaching RH	1	394-
-27	159-13160	. DOOR ASSEMBLY, Wing center section shroud step hand hold . . .	1	394-
-28	13--31081	. . SPRING, Instrument panel close-out door	2	394-
-29	201	. JACK ASSEMBLY, Fuel nozzle grounding (North American)	1	394-
-30	159-10013	. WASHER, Wing to fus fillet skin reinforcement	2	394-
-31	159-13007-21	. SEAL, WCS inboard T.E. (lower edge)	1	394-
-32	159-13007-23	. SEAL, WCS inboard T.E. (lower edge)	1	394-
-33	159-13007-25	. SEAL, WCS inboard T.E. (lower edge)	1	394-

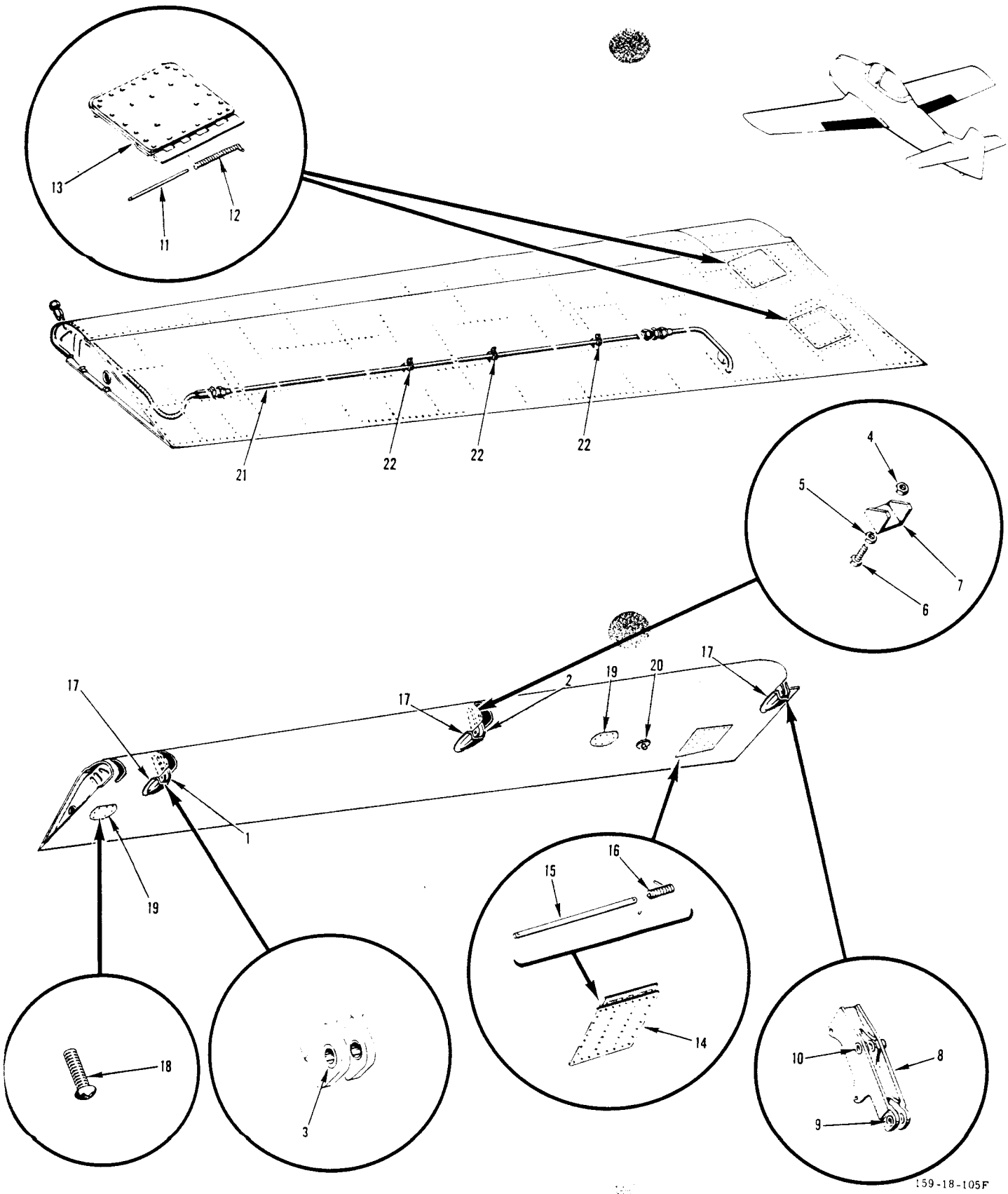


FIGURE 24 - WING FLAP ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
24	159-18001-1	FLAP ASSEMBLY, Wing LH (superseded by 159-18001-201, -301, . . . and 401. 159-18001-1 may be used interchangeably with -201,-301, and -401 until stock is exhausted)	Ref	
	159-18001-201	FLAP SSEMBLY, Wing LH (supersedes 159-18001-1 and is superseded. by 159-18001-301 and -401. 159-18001-201 may be used interchangeably with 159-18001-301 and -401 until stock is exhausted)	Ref	
	159-18001-301	FLAP ASSEMBLY, Wing LH (supersedes 159-18001-1 and -201 for. . . future procurement and is superseded by 159-18001-401. 159-18001-301 may be used interchangeably with 159-18001-401 until stock is exhausted) (see figure 13 and 14 for next assembly)	Ref	
	159-18001-401	FLAP ASSEMBLY, Wing LH (supersedes 159-18001-1, -201, and -301 . for future procurement)	Ref	
	159-18001-2	FLAP ASSEMBLY, Wing RH (superseded by 159-18001-102, -202 . . . -302 and -402. 159-18001-2 OK to use on airplanes noted)	Ref	4-393
	159-18001-102	FLAP ASSEMBLY, Wing RH (supersedes 159-18001-2 and is. . . . . superseded by 159-18001-202, -302 and -402. 159-18001-102 may be used interchangeably with -202, -302 and -402 until stock is exhausted)	Ref	
	159-18001-202	FLAP ASSEMBLY, Wing RH (supersedes 159-18001-2 and -102 and. . . is superseded by 159-18001-302 and -402. 159-18001-202 may be used interchangeably with -302 and -402 until stock is exhausted)	Ref	
	159-18001-302	FLAP ASSEMBLY, Wing RH (supersedes 159-18001-2, -102, and -202 . for future procurement and is superseded by 159-18001-402. 159-18001-302 may be used interchangeably with 159-18001-402 until stock is exhausted) (see figure 13 and 14 for next assembly)	Ref	
	159-18001-402	FLAP ASSEMBLY, Wing RH (supersedes 159-18001-2, -102, -202,. . . and -302 for future procurement	Ref	
-1	159-18104	. FITTING ASSEMBLY, Flap aft outboard hinge	1	
-2	159-18103	. FITTING ASSEMBLY, Flap aft center hinge	1	
-3	[illegible]	. . BUSHING, Press fit flanged (North American)	2	
-4	AN316-5R	. NUT	1	
-5	AN315-5R	. NUT	1	
-6	MS3428-5-10	. BOLT, adjusting crowned hexagon head	1	
-7	159-18151	. STOP, Flap center hinge	1	
-8	159-18102-1	. FITTING ASSEMBLY, Flap aft inboard hinge LH	1	
	159-18102-2	. FITTING ASSEMBLY, Flap aft inboard hinge RH	1	
-9	-B20B8-007	. . BUSHING, Press fit plain (North American)	2	
-10	-B20S7-012	. . BUSHING, Press fit flanged (North American)	2	
-11	159-18039	. PIN, Flap step spring (used on 159-18001-1 & 159-18001-102) .	2	
-12	159-18041-2	. SPRING, Flap step door upper (RH) (used on 159-18001-1, . . -201, -301 and -401)	2	
	159-18041-1	. SPRING, Flap step door upper (LH) (used on 159-18001-102 . . -202, -302 and -402)	2	
-13	159-18018-1	. DOOR ASSY, Flap step upper surf. (not used on 159-18001-2) .	2	4-343
	159-18018-1	. DOOR ASSY, Flap step upper surface	1	844-
	159-18018-21	. DOOR ASSY, Flap step upper surface	1	844-
	159-18015	. . HINGE ASSY, Flap step door	2	
-14	159-18019-1	. DOOR ASSY, Flap step lower surface (LH)	1	4-343
	159-18019-2	. DOOR ASSY, Flap step lower surface (RH) (not used on . . . . 159-18001-2)	1	4-343
	159-18019-21	. DOOR ASSY, Flap step lower surface (LH)	1	844-
	159-18019-22	. DOOR ASSY, Flap step lower surface (RH)	1	844-
	159-18037-1	. . HINGE ASSY, Flap step door lower surface LH	1	
	159-18037-2	. . HINGE ASSY, Flap step door lower surface RH	1	
-15	159-18037-9	. . . PIN, Flap step door hinge	1	
-16	159-18042-1	. . . SPRING, Flap step door lower surface LH	3	
	159-18042-2	. . . SPRING, Flap step door lower surface RH	3	
-17	159-18227	. FAIRING, Flap hinge fitting	3	
-18	AN515-3R7	. SCREW	8	
-19	159-18147	. DOOR ASSY, Flap fuel vent line access	2	
-20	159-48037	. SEAL ASSY, WCS fuel system flap vent line outlet	1	
-21	159-48012-1	. FUEL EQUIPMENT INSTALLATION, Wing flap LH (see figure . . . . 26 for detail breakdown)	NP	
	159-48012-2	. FUEL EQUIPMENT INSTALLATION, Wing Flap RH (see figure . . . . 26 for detail breakdown)	NP	
	159-18074-1	. RIB ASSY, Flap sta 75.120 LH	1	
	159-18074-2	. RIB ASSY, Flap sta 75.120 RH	1	
	159-18093-1	. RIB ASSY, Flap sta 94.000 LH	1	
	159-18093-2	. RIB ASSY, Flap sta 94.000 RH	1	
	159-18110-1	. RIB ASSY, Flap sta 110.625 LH	1	
	159-18110-2	. RIB ASSY, Flap sta 110.625 RH	1	
-22	159-48036-1	. . CLAMP ASSY, WCS fuel sys flap vent line LH	1	
	159-48036-2	. . CLAMP ASSY, WCS fuel sys flap vent line RH	1	

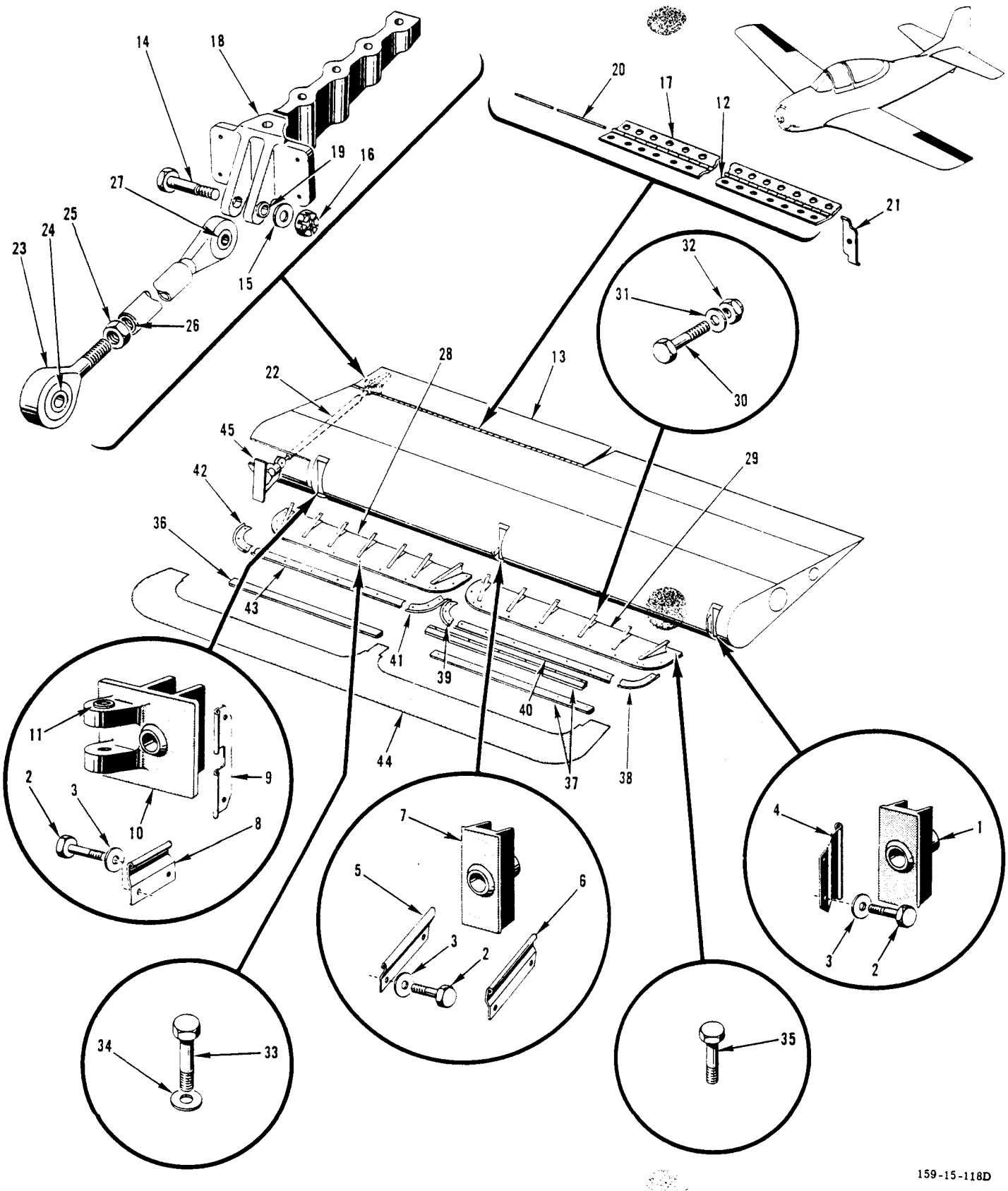


FIGURE 25 - AILERON ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
25	159-16301	AILERON ASSEMBLY, Complete (supersedes 159-16001-201). . . . . (see figure 7 and 8 for next assembly)	Ref	61-
	159-16001-201	AILERON ASSEMBLY, Complete (see figure 7 for next assembly). . .	Ref	4-60
-1	159-16102-5	. FITTING, Aileron outboard hinge	1	
-2	5B1704A	. BOLT, Corrosion resistant 10-32 (North American).	10	
-3	AN960D10	. WASHER.	10	
-4	159-16155	. STRIP, Aileron station 87.5 seal retaining.	1	
-5	159-16154-1	. STRIP, Aileron sta -9.983 and 51.983 seal retaining LH. . .	1	
-6	159-16154-2	. STRIP, Aileron sta -9.983 and 51.983 seal retaining RH. . .	1	
-7	159-16102-3	. FITTING, Aileron aft center and outboard hinge.	1	
-8	159-16153	. STRIP, Aileron sta 11.250 horizontal seal retaining	1	
-9	159-16152	. STRIP, Aileron sta 11.250 vertical seal retaining	1	
-10	159-16101	. FITTING ASSEMBLY, Aileron aft inboard hinge	1	
-11	4B20S5-028	. . BUSHING, Press fit flange (North American)	2	
-12	159-16202-5	. HINGE, Aileron trim tab	1	
-13	159-16201	. TAB ASSEMBLY, Aileron trim	1	
	ATTACHING PARTS			
-14	AN173-11	. BOLT.	1	
-15	AN960-10L	. WASHER.	1	
-16	AN310-3	. NUT	1	
	---*---			
-17	159-16202-3	. . HINGE, Aileron trim tab.	1	
-18	159-16209	. . FITTING ASSEMBLY, Aileron tab actuator	1	
-19	4B19B3-008	. . . BUSHING, Press fit plain (North American)	2	
-20	159-16001-23	. PIN, Aileron.	1	4-60
	AN253-2-3944	. PIN	1	61-
-21	159-16301-21	. RETAINER, Trim tab hinge pin (Used on 159-16301 only)	2	
-22	159-16230	. ARM ASSY, Aileron trim and boost tab operating mechanism. . .	1	
-23	159-16231	. . ROD END ASSEMBLY, Aileron trim and boost tab operating . . mechanism	1	
-24	AN206DS3	. . . BEARING	1	
-25	AN316-5R	. . NUT.	1	
	159-16230-5	. . ROD ASSEMBLY, Aileron trim and boost tab operating . . . . mechanism	1	
-26	159-16219	. . . ADAPTER, Aileron trim and boost tab operating . . . . . mechanism	1	
	159-16248	. . . FITTING ASSEMBLY, Aileron trim and boost tab . . . . . operating arm	1	
-27	AN200K3L	. . . . BEARING.	1	
	159-16151	. PADDLE INSTALLATION, Aileron leading edge	NP	
-28	159-16151-3	. . PADDLE ASSEMBLY, Aileron leading edge.	1	
-29	159-16151-5	. . PADDLE ASSEMBLY, Aileron leading edge.	1	
	ATTACHING PARTS			
-30	5B1704A	. . BOLT, Corrosion resistant 10-32 (North American)	24	
-31	AN960D10	. . WASHER	24	
-32	AN363C1032	. . NUT.	24	
	---*---			
-33	5B1707A	. . BOLT, Corrosion resistant 10-32 (North American) . . . . . (inboard)	6	
	5B1711A	. . BOLT, Corrosion resistant 10-32 (North American)	6	
-34	AN960D10	. . WASHER	12	
-35	5B1704A	. . BOLT, Corrosion resistant 10-32 (North American)	12	
-36	159-16151-37	. . WEIGHT, Aileron leading edge	1	
-37	159-16151-39	. . WEIGHT, Aileron leading edge	2	
-38	159-16151-57	. . CLIP, Aileron leading edge	1	
-39	159-16151-55	. . CLIP, Aileron leading edge	1	
-40	159-16151-61	. . CLIP, Aileron leading edge	1	
-41	159-16151-53	. . CLIP, Aileron leading edge	1	
-42	159-16151-51	. . CLIP, Aileron leading edge	1	
-43	159-16151-59	. . CLIP, Aileron leading edge	1	
-44	159-16162	. SEAL ASSEMBLY, Aileron.	1	
-45	159-16233	SUPPORT ASSEMBLY, Aileron trim and boost tab operating . . . . . mechanism (figure 12)	Ref	

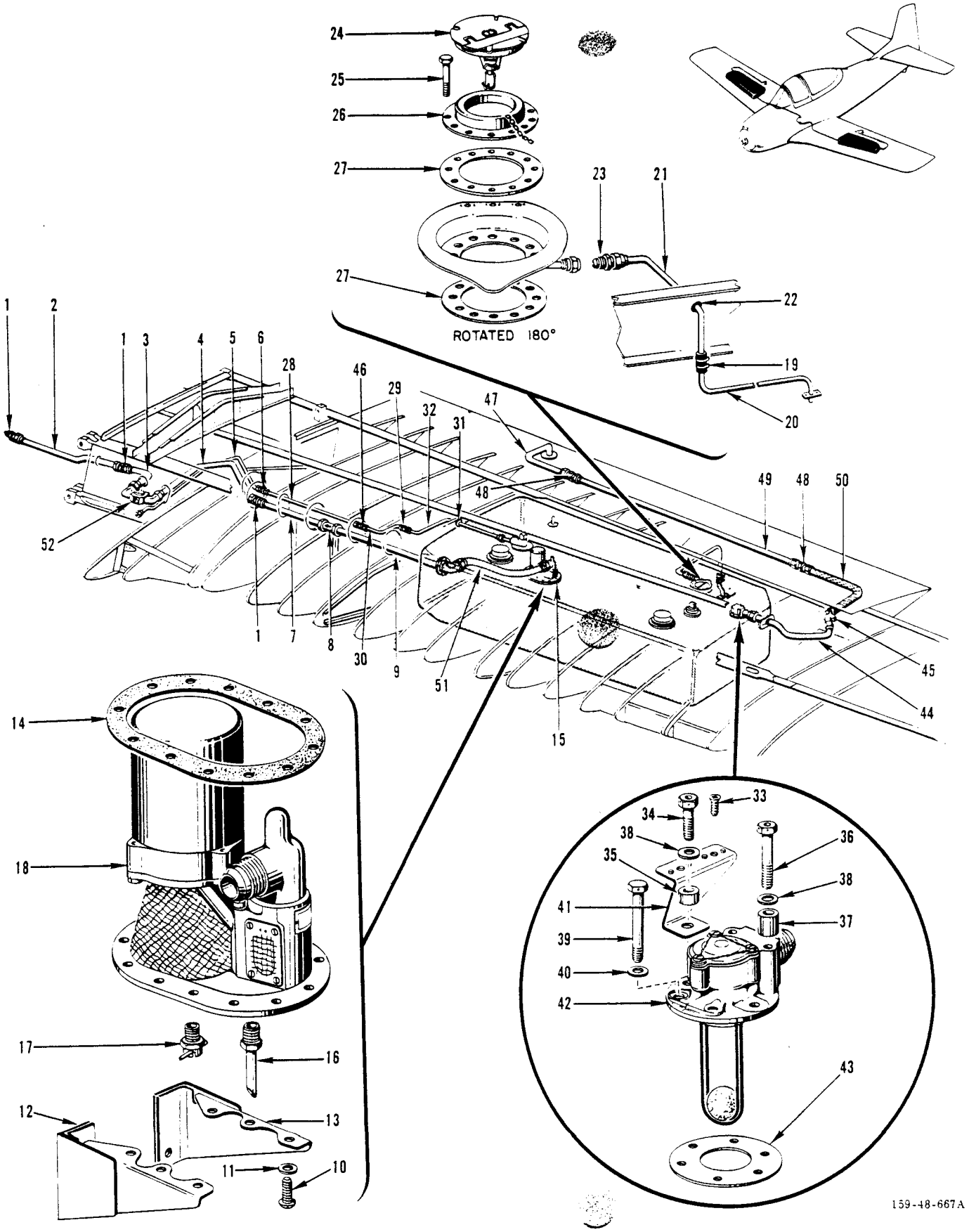


FIGURE 26 - COMPLETE WING FUEL SYSTEM

WING FUEL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
26		COMPLETE WING FUEL SYSTEM		
	159-48010	. FUEL SYSTEM EQUIPMENT INSTALLATION, Wing and fuselage joining (see figure 3 for next assembly)	NP	4-393
-1	AN815-12D	. . UNION	3	4-393
-2	159-48801-8	. . LINE ASSEMBLY, Main fuel union to union RH	1	4-393
-3	159-48801-10	. . LINE ASSEMBLY, Main fuel union to selector valve RH	1	4-393
-4	159-48801-9	. . LINE ASSEMBLY, Main fuel union to selector valve LH	1	4-393
-5	159-48801-37	. . LINE ASSEMBLY, Carburetor vapor return union to sump	1	4-40
	159-48801-15	. . LINE ASSEMBLY, Carburetor vapor return union to sump	1	41-393
-6	AN815-6D	. . UNION	1	4-393
	159-48013-1	. FUEL SYSTEM EQUIP INSTL, WCS LH (see fig. 13 for next assy)	NP	4-393
	159-48013-2	. FUEL SYSTEM EQUIP INSTL, WCS RH (see fig. 13 for next assy)	NP	4-393
	No Number	. . FUEL CELL ASSEMBLIES (see figure 28 for detail breakdown)	NP	4-393
-7	159-48801-5	. . LINE ASSEMBLY, Main fuel check valve to union LH	1	4-393
	159-48801-6	. . LINE ASSEMBLY, Main fuel check valve to union RH	1	4-393
-8	6-5-9-83	. . VALVE ASSEMBLY, Check (Parker Appliance)	1	4-393
-9	159-48801-3	. . LINE ASSEMBLY, Main fuel cell to check valve LH	1	4-393
	159-48801-4	. . LINE ASSEMBLY, Main fuel cell to check valve RH	1	4-393
-10	AN7-6	. . BOLT	10	4-393
	AN502-416-12	. . SCREW	2	4-393
-11	AN960-416L	. . WASHER	12	4-393
-12	159-48091-1	. . SUPPORT ASSY, WCS fuel booster pump mounting LH	1	5-393
	159-48018-1	. . BRACKET ASSY, WCS fuel booster pump mounting LH	1	4
-13	159-48091-2	. . SUPPORT ASSY, WCS fuel booster pump mounting RH	1	5-393
	159-48018-2	. . BRACKET ASSY, WCS fuel booster pump mounting RH	1	4
-14	157-48257	. . GASKET, Fuel cell upper fuselage aft vent manifold seal	1	4-393
-15	159-48017-1	. . PUMP ASSEMBLY, Wing center section fuel booster LH	1	4-393
	159-48017-2	. . PUMP ASSEMBLY, Wing center section fuel booster RH	1	4-393
-16	159-48065	. . . FITTING ASSY, Wing center section fuel booster pump seal drain (make from AN840-4)	1	4-393
-17	3CA4850	. . . VALVE ASSY, Drain (Curtis Automotive Devices, Inc. (supersedes 3CA1450)	1	4-393
-18	TF31400-22	. . . PUMP ASSEMBLY, Fuel booster (Thompson Products)	1	4-393
-19	3H2-6-11	. . HOSE (North American)	1	4-393
	AN737BM26	. . CLAMP	2	4-393
-20	159-48804-1	. . LINE ASSY, Fuel system scupper cup drain lower LH	1	4-393
	159-48804-2	. . LINE ASSY, Fuel system scupper cup drain lower RH	1	4-393
-21	159-48801-31	. . LINE ASSEMBLY, Filler neck scupper cup drain LH	1	4-393
	159-48801-32	. . LINE ASSEMBLY, Filler neck scupper cup drain RH	1	4-393
-22	AN931-6-10	. . GROMMET	1	4-393
-23	AN815-6D	. . UNION	1	4-393
-24	39E5435	. . CAP ASSEMBLY, Fuel tank filler	1	4-393
-25	AN74-4	. . BOLT	12	4-393
-26	20071	. . ADAPTER ASSEMBLY, Wing fuel cell filler cap (Universal Metal Products) (supersedes 151-8135)	1	4-393
-27	159-48020	. . GASKET, WCS fuel tank filler support	2	4-393
-28	159-48801-36	. . LINE ASSY, Carburetor vapor return union to union (LH side only)	1	4-270
	159-48801-42	. . LINE ASSY, Carburetor vapor return check valve to union (LH side only)	1	271-393
-29	AN815-6D	. . UNION (LH side only)	1	4-393
-30	159-48801-35	. . LINE ASSY, Carburetor vapor return tank to union (LH side)	1	4-393
-31	AN931-8-13	. . GROMMET (LH side only)	1	4-393
-32	159-48801-39	. . LINE ASSY, Carburetor vapor return union to union (LH)	1	4-393
-33	AN509-8-7	. . SCREW	2	4-393
-34	AN74-6	. . BOLT	2	4-393
-35	4S3-416-10	. . SPACER, Bolt (North American)	2	4-393
-36	AN74-12	. . BOLT	2	4-393
-37	4S3-416-20	. . SPACER, Bolt (North American)	2	4-393
-38	AN960D416	. . WASHER	4	4-393
-39	AN4H15	. . BOLT	2	4-393
-40	AN960-416L	. . WASHER	6	4-393
-41	159-48021-1	. . SUPPORT ASSEMBLY, WCS fuel tank vent outlet LH	1	4-393
	159-48021-2	. . SUPPORT ASSEMBLY, WCS fuel tank vent outlet RH	1	4-393
-42	159-48074	. . VALVE ASSEMBLY, Fuel tank vent slosh (see figure 33 for detail breakdown)	1	4-393
-43	159-48051	. . GASKET, WCS fuel tank vent and fuel out fitting	1	4-393
-44	159-48801-17	. . LINE ASSEMBLY, Tank vent tank to rear spar LH	1	4-393
	159-48801-18	. . LINE ASSEMBLY, Tank vent tank to rear spar RH	1	4-393
-45	159-48029	. . ELBOW, Wing center section fuel vent line rear spar	1	4-393
-46	AN815-6D	. . UNION (LH side only)	1	4-270
	10-1744-75	. . VALVE ASSY, Check (Parker Appliance)	1	271-393
	159-48012-1	. FUEL EQUIP. INSTL, Wing flap LH (see fig. 24 for next assy)	NP	
	159-48012-2	. FUEL EQUIP. INSTL, Wing flap RH (see fig. 24 for next assy)	NP	
-47	159-48045-1	. . ELBOW ASSEMBLY, Wing flap fuel system vent outlet LH	1	
	159-48045-2	. . ELBOW ASSEMBLY, Wing flap fuel system vent outlet RH	1	
-48	AN815-12D	. . UNION	2	
-49	159-48801-19	. . LINE ASSEMBLY, Tank vent in flap hose to outlet LH	1	
	159-48801-20	. . LINE ASSEMBLY, Tank vent in flap hose to outlet RH	1	
-50	AN6264-12D26 1-2	. . HOSE ASSEMBLY	1	
-51	AN6264-12D15 3-4	HOSE ASSEMBLY (See figure 38)	Ref	
-52	159-48014	VALVE ASSEMBLY, Fuel WCS system tank selector (see figure 90)	Ref	

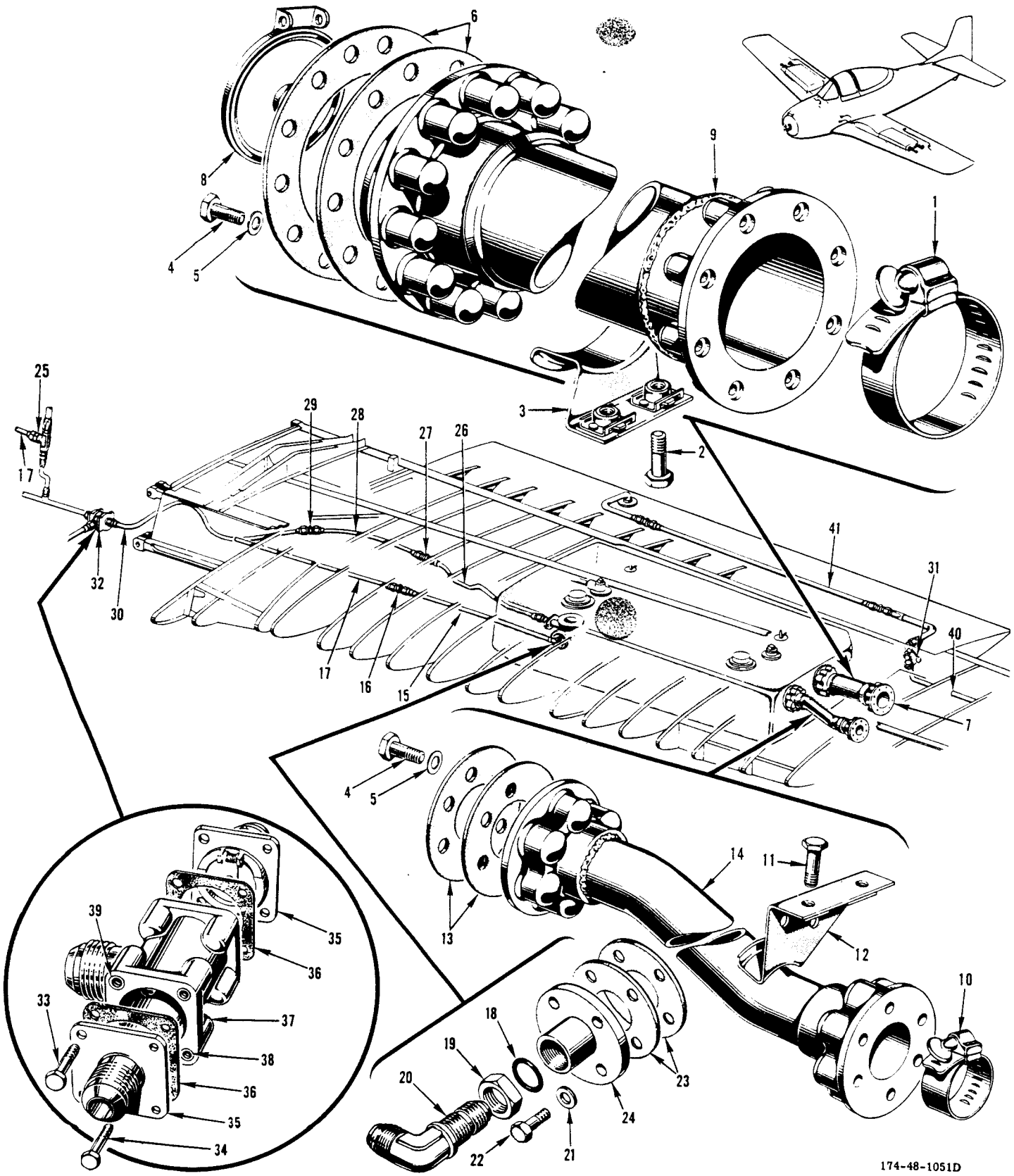


FIGURE 27 - WING CENTER SECTION FUEL SYSTEM EQUIPMENT

WING FUEL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
27	174-48013-1	FUEL SYSTEM EQUIPMENT INSTALLATION, Wing center section LH . . . (see figure 14 for next assembly)	NP	394-
	174-48013-2	FUEL SYSTEM EQUIPMENT INSTALLATION, Wing center section RH . . . (see figure 14 for next assembly)	NP	394-
	No Number	. FUEL CELL ASSEMBLIES (see fig. 29 for detail breakdown) . . .	NP	394-
-1	AN737TW98	. CLAMP	1	394-
-2	AN3-4A	. BOLT	2	394-
-3	174-48187	. BRACKET ASSEMBLY, Wing center section fuel filling interconnector support	1	394-
-4	AN4-7A	. BOLT	18	394-
-5	AN935-416	. WASHER	18	394-
-6	174-48182	. GASKET, Center section wing fuel filling interconnector . . .	2	394-
-7	174-48186	. INTERCONNECTOR ASSY, Center section wing fuel filling complete	1	394-
-8	11-248-88	. . CHECK VALVE (Parker Appliance)	1	394-
-9	174-48185	. . INTERCONNECTOR ASSEMBLY, WCS fuel filling	1	394-
	RD206SB6.5L	. . . INSERT (Rosan)	20	394-
	RL28SB8	. . . RING (Rosan)	20	394-
-10	AN737TW44	. CLAMP	1	394-
-11	AN3-4A	. BOLT	2	394-
-12	174-48176	. BRACKET ASSEMBLY, Center section wing fuel vent interconnector support	1	394-
-13	174-48177	. GASKET, Center section wing fuel vent interconnector	2	394-
-14	174-48179	. TUBE ASSEMBLY, WCS fuel vent interconnector	1	394-
	RD206SB6.5L	. . INSERT (Rosan)	12	394-
	RL28SB8	. . RING (Rosan)	12	394-
-15	174-48801-40	. LINE ASSEMBLY, WCS fuel vent outboard section RH side	1	394-
-16	AN815-8D	. UNION (RH only)	1	394-
-17	174-48801-14	. LINE ASSEMBLY, WCS fuel vent inboard section RH side	1	394-
-18	934-12	. PACKING (RH only)	1	394-
-19	AN924-8D	. NUT (RH only)	1	394-
-20	AN833-8D	. ELBOW (RH only)	1	394-
-21	AN960D416L	. WASHER (RH only)	4	394-
-22	AN4H6A	. BOLT (RH only)	4	394-
-23	159-48050	. GASKET, WCS fuel system tank drain and float access (RH only)	2	394-
-24	174-48170	. FITTING, WCS fuel cell front spar sump tank vent adapter (RH only) . .	1	394-
-25	No Number	. FUSELAGE FUEL SUMP TANK LINES (see figure 91 and 92 for detail breakdown) . . .	NP	394-
-26	174-48801-12	. LINE ASSY, WCS fuel section No. 1 LH side	1	394-
	174-48801-13	. LINE ASSY, WCS fuel section No. 1 RH side	1	394-
-27	AN815-12D	. UNION	1	394-
-28	174-48801-18	. LINE ASSY, WCS fuel section No. 2 LH side	1	394-
-29	AN815-12D	. UNION (LH only)	1	394-
-30	174-48801-20	. LINE ASSY, WCS fuel section No. 3 LH side	1	394-
-31	159-48029	. ELBOW, WCS fuel vent line rear spar	1	394-
-32	174-48102	. VALVE ASSY, Fuselage fuel sump tank inlet (RH only)	1	394-
-33	AN4H3A	. . BOLT	2	394-
-34	AN3H3A	. . BOLT	6	394-
-35	1111-517229	. . VALVE ASSY, Fuel sump tank inlet (Parker Appliance) . . .	2	394-
-36	174-48104	. . GASKET, Fuselage fuel sump tank valve	2	394-
-37	174-48103	. . BODY ASSY, Fuselage fuel sump tank valve	1	394-
-38	RL24SB7	. . . RING (Rosan)	6	394-
	RD205SH5.5L	. . . INSERT (Rosan)	6	394-
-39	RL28SB8	. . . RING (Rosan)	2	394-
	RD206SH6.5L	. . . INSERT (Rosan)	2	394-
-40	3H3-12-17 1-2	HOSE ASSEMBLY, Plastic covered (North American)(see figure 32) .	Ref	
-41	159-48012	FUEL EQUIPMENT INSTALLATION, Wing flap (see figure 26)	Ref	

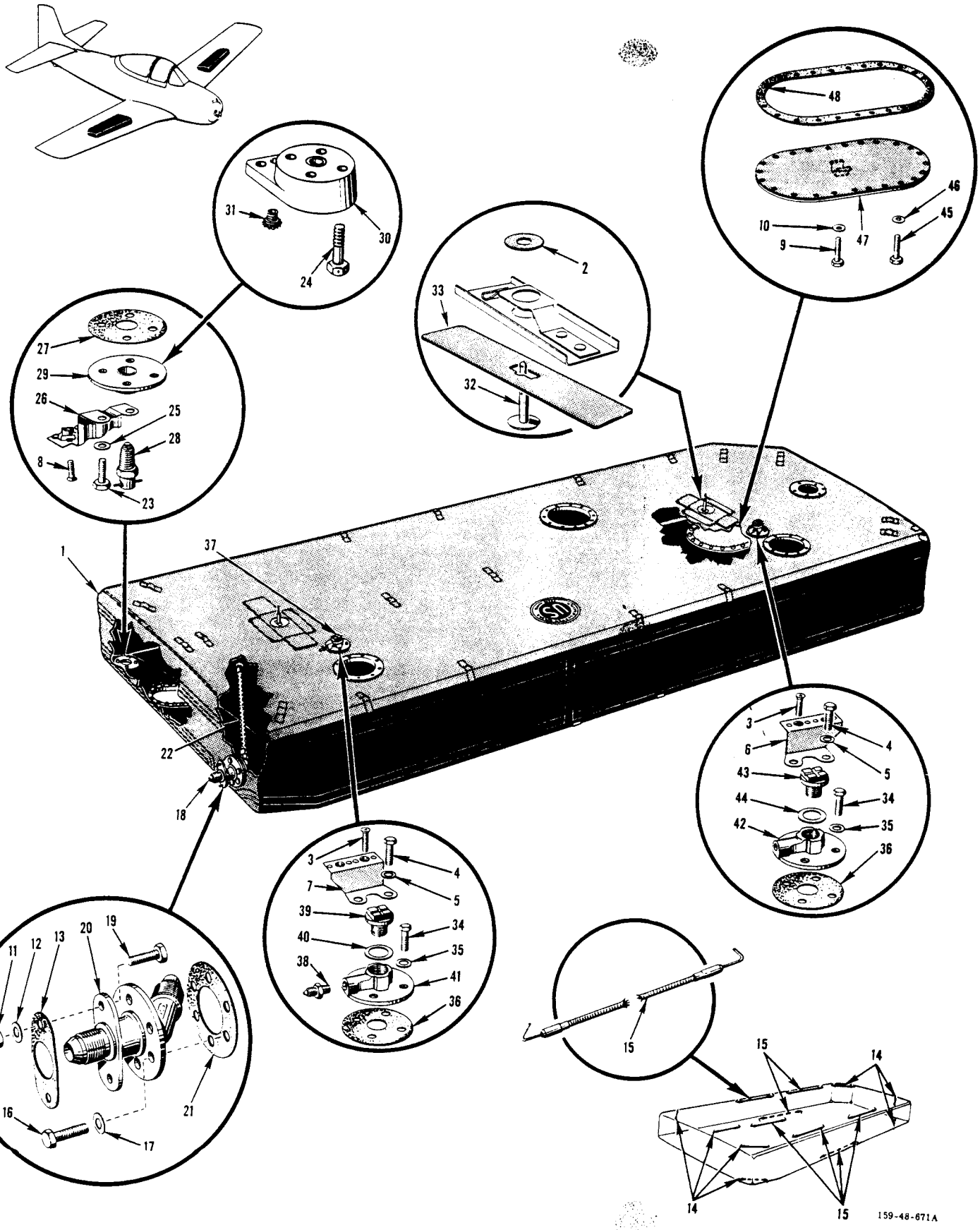


FIGURE 28 - FUEL CELL ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
28	No Number		FUEL CELL ASSEMBLIES (See figure 26 for next assembly)	NP	4-393
	Quantities Listed Per One Wing Except As Noted				
-1	159-48016-1		CELL ASSEMBLY, Complete fuel LH	1	4-7
	159-48016-2		CELL ASSEMBLY, Complete fuel RH	1	4-7
	159-48016-3		CELL ASSEMBLY, Complete fuel LH	1	8-393
	159-48016-4		CELL ASSEMBLY, Complete fuel RH	1	8-393
	ATTACHING PARTS				
-2	SW1AL20-32-64		WASHER, Plain (North American)	4	4-393
-3	AN509-8-8		SCREW	2	4-393
-4	AN74-5		BOLT	4	4-393
-5	AN960-416L		WASHER	4	4-393
-6	159-48054-1		CLIP ASSEMBLY, Wing center section fuel quantity gage float arm access fitting support LH (outboard fitting)	1	4-393
	159-48054-2		CLIP ASSEMBLY, Wing center section fuel quantity gage float arm access fitting support RH (outboard fitting)	1	4-393
-7	159-48054-2		CLIP ASSEMBLY, WCS fuel quantity gage float arm access. fitting support RH (use on LH instl) (inbd fitting)	1	4-393
	159-48054-1		CLIP ASSEMBLY, WCS fuel quantity gage float arm access. fitting support LH (use on RH instl) (inbd fitting)	1	4-393
-8	AN509-8-8		SCREW	3	4-393
-9	AN4-5A		BOLT	1	4-393
-10	SW1AL20-32-64		WASHER, Plain (North American)	1	4-393
-11	AN365-1032		NUT	2	4-393
-12	AN960D10		WASHER	2	4-393
-13	159-48073		GASKET, WCS fuel system tank outlet fitting	1	4-393
-14	RS5223E7-0		CORD, Fuel cell shock (Pacific Coast Engineering Co.)	7	4-393
-15	RS5223E12-6		CORD, Fuel cell shock (Pacific Coast Engineering Co.)	7	4-393
	---*---				
	159-48002-1		CELL ASSY, Wing center section fuel LH (less equipment)	1	4-393
	159-48002-2		CELL ASSY, Wing center section fuel RH (less equipment)	1	4-393
-16	AN74-5		BOLT	6	4-393
-17	AN960D416		WASHER	12	4-393
-18	159-48038		ELBOW ASSEMBLY, WCS fuel system tank outlet	1	4-393
-19	AN3-5A		BOLT	2	4-393
-20	8800-02		RETAINER, Fuel tank outlet (Nutt-Shel)	1	4-393
-21	159-48051		GASKET, WCS fuel tank vent and fuel outlet fitting	1	4-393
-22	AN6264-12D15 3-4		HOSE ASSEMBLY	1	4-393
-23	AN74-4		BOLT	4	4-7
-24	AN74-4		BOLT	4	8-393
-25	AN960D416		WASHER	4	4-393
-26	159-48061-1		SUPPORT ASSEMBLY, WCS fuel tank drain fitting LH	1	4-7
	159-48061-2		SUPPORT ASSEMBLY, WCS fuel tank drain fitting RH	1	4-7
-27	159-48050		GASKET, WCS fuel system tank drain and float access	1	4-393
-28	DDA1500		VALVE ASSY, Fuel drain adapter (Curtis Automotive Devices)	1	4-393
-29	159-48062		ADAPTER, Wing center section fuel tank drain	1	4-7
-30	159-48093-1		FITTING ASSY, Fuel cell sump drain LH	1	8-393
	159-48093-2		FITTING ASSY, Fuel cell sump drain RH	1	8-393
-31	R124337		RING (Rosan)	1	8-393
	RD2056H5.5L		INSERT (Rosan)	1	8-393
-32	159-48068		STUD, WCS fuel cell float clearance stiffener attaching	4	4-393
-33	159-48067-5		STIFFENER, WCS fuel cell float clearance (top inbd stud)	1	4-393
	159-48067-3		STIFFENER, WCS fuel cell float clearance	3	4-393
-34	AN74-5		BOLT	4	4-393
-35	AN960D416		WASHER	4	4-393
-36	159-48050		GASKET, WCS fuel system tank drain and float access	2	4-393
-37	159-48053		ADAPTER ASSEMBLY, Wing center section fuel quantity transmitter float arm access (LH tank only)	1	4-393
-38	AN816-6-2		NIPPLE	1	4-393
-39	159-48043		PLUG, WCS fuel quantity transmitter float arm access	1	4-393
-40	AN900-12		GASKET	1	4-393
-41	159-48028-3		ADAPTER, WCS fuel quantity transmitter float arm access	1	4-393
-42	159-48028-5		ADAPTER, Wing center section fuel quantity transmitter float arm access (LH tank)	1	4-393
	159-48028-5		ADAPTER, Wing center section fuel quantity transmitter float arm access (RH tank)	2	4-393
-43	159-48043		PLUG, Wing center section fuel quantity transmitter float arm access (LH tank)	1	4-393
	159-48043		PLUG, Wing center section fuel quantity transmitter float arm access (RH tank)	2	4-393
-44	AN900-12		GASKET (LH tank)	1	4-393
	AN900-12		GASKET (RH tank)	2	4-393
-45	AN74-4		BOLT	24	4-393
-46	AN960D416		WASHER	48	4-393
-47	159-48063		COVER ASSEMBLY, Wing center section fuel tank access	1	4-393
-48	159-48064		GASKET, Wing center section fuel tank access door	1	4-393

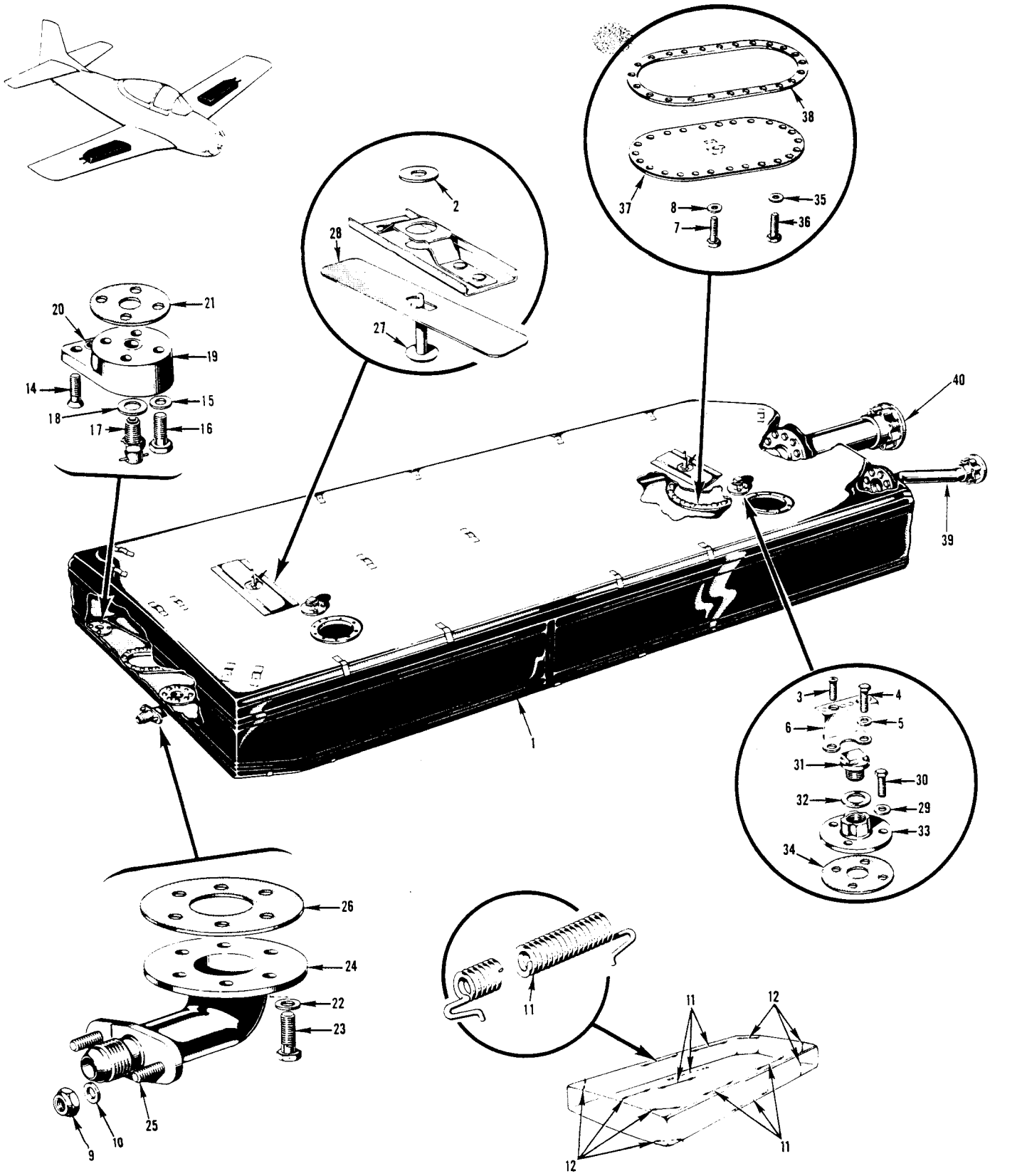


FIGURE 29 - FUEL CELL ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
29	No Number		FUEL CELL ASSEMBLIES (see figure 27 for next assembly)	NP	394-
-1	174-48016-1		. CELL ASSEMBLY, Complete fuel LH	1	394-
	174-48016-2		. CELL ASSEMBLY, Complete fuel RH	1	394-
	ATTACHING PARTS				
-2	2W1AL20-32-64		. WASHER, Plain(North American)	4	394-
-3	AN507-1032R8		. SCREW	2	394-
-4	AN74-5		. BOLT.	4	394-
-5	AN960D416L		. WASHER.	4	394-
-6	159-48054-1		. CLIP ASSY, WCS fuel quantity gage float arm access fitting. .	2	394-
			support LH		
	159-48054-2		. CLIP ASSY, WCS fuel quantity gage float arm access fitting. .	2	394-
			support RH		
-7	AN4-5A		. BOLT.	1	394-
-8	2W1AL20-32-64		. WASHER, Plain (North American).	1	394-
-9	AN365-1032		. NUT	2	394-
-10	AN960D10		. WASHER.	2	394-
-11	174-48025		. SPRING, Fuel cell hanger (supersedes Pacific Coast.	7	394-
			Engineering Co. No. PS5223B12-6 which may be used		
			interchangeably until stock is exhausted)		
-12	174-48023		. SPRING, Fuel cell hanger (Supersedes Pacific Coast.	7	394-
			Engineering Co. No. PS5223B7-3 which may be used		
			interchangeably until stock is exhausted)		
-13	DELETED				
-14	AN507-1032R9		. SCREW	2	394-
		---*---			
-15	AN960D416		. . WASHER	4	394-
-16	AN74--		. . BOLT	4	394-
-17	83501-1	*	. . VALVE ASSY, Fuel drain adapter (Hoehler Aircraft Products)	1	394-
			(Curtis Automotive Devices No. CCA4300 may be sub)		
-18	93--6	*	. . PACKING.	1	394-
-19	159-48093-3	*	. . FITTING ASSY, Fuel cell sump drain LH.	1	394-
	159-48093-4	*	. . FITTING ASSY, Fuel cell sump drain RH.	1	394-
-20	[illegible]		. . . RING(Rosan	1	394-
	[illegible]		. . . INSERT (Rosan)	1	394-
-21	159-48060		. . GASKET, WCS fuel system tank drain and float access. . . .	1	394-
-22	AN960D416		. . WASHER	4	394-
-23	AN74-8		. . BOLT	4	394-
-24	174-48188-1		. . FITTING ASSY, WCS fuel gravity flow outlet elbow LH. . . .	1	394-
	174-48188-2		. . FITTING ASSY, WCS fuel gravity flow outlet elbow RH. . . .	1	394-
-25	AN3-5A		. . . BOLT.	2	394-
	6550-12		. . . RETAINER (Nutt-Shel)	2	394-
-26	159-48051		. . GASKET, WCS fuel tank vent and fuel outlet fitting	1	394-
-27	159-48068		. . STUD, WCS fuel cell float clearance stiffener attaching. .	4	394-
-28	159-48067-5		. . STIFFENER, WCS fuel cell float clearance (top inbd stud) .	1	394-
	159-48067-3		. . STIFFENER, WCS fuel cell float clearance	3	394-
-29	AN960D416		. . WASHER	4	394-
-30	AN74-8		. . BOLT	4	394-
-31	159-48043		. . PLUG, WCS fuel quantity transmitter float arm access . . .	1	394-
-32	AN960-12		. . GASKET	2	394-
-33	174-48028		. . ADAPTER, WCS fuel quantity transmitter float arm access. .	2	394-
-34	159-48050		. . GASKET, WCS fuel system tank drain and float access. . . .	2	394-
-35	AN960D416		. . WASHER	48	394-
-36	AN74-4		. . BOLT	24	394-
-37	159-48063		. . COVER ASSEMBLY, WCS fuel tank access	1	394-
-38	159-48064		. . GASKET, WCS fuel tank access door	1	394-
	174-48008-1		. . CELL ASSEMBLY, Wing center section fuel LH (United States.	1	394-
			Rubber No. PD2[illegible])		
	174-48008-2		. . CELL ASSEMBLY, Wing center section fuel RH (United States.	1	394-
			Rubber No. PD2[illegible])		
-39	174-48179		TUBE ASSEMBLY, WCS fuel vent interconnector (see fig. 27). . . .	Ref	
-40	174-48180		INTERCONNECTOR ASSY, Center section wing fuel filling (see . . .	Ref	
			figure 27)		

* Hoehler Aircraft No. 83501-1 with 159-48093-3 and -4 and 934-6 as a set, supersedes Curtis Automotive No. CCA1500 or CCA4900 with 159-48093-1, and -2 as a set, the latter or superseded parts may be used interchangeably as a set until stock is exhausted.

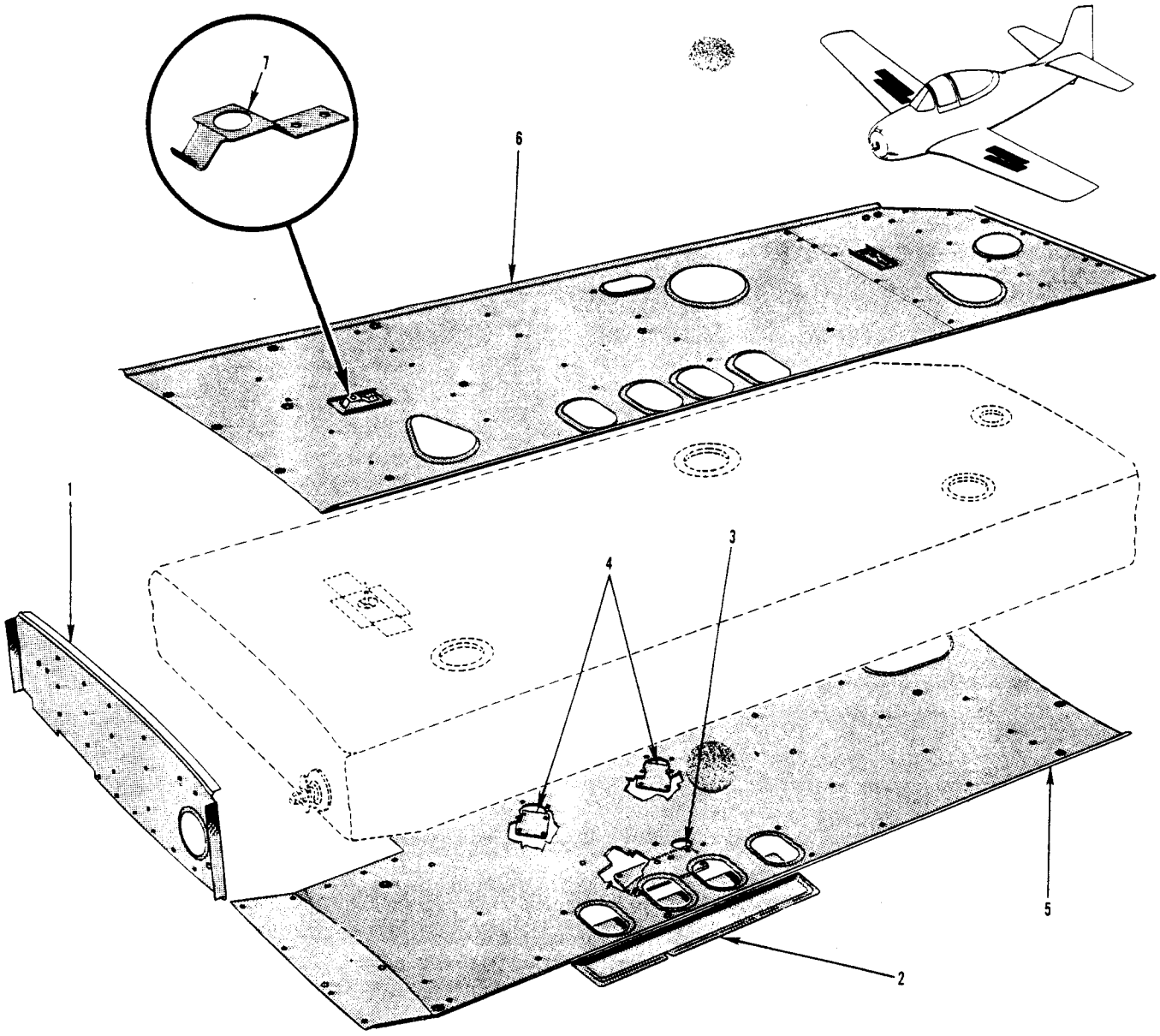


FIGURE 30 - WING CENTER SECTION FUEL TANK LINERS

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
30	159-48113-1	LINER INSTL, WCS fuel tank LH (see fig. 15 for next assembly)	NP	4-393
	159-48113-2	LINER INSTL, WCS fuel tank RH (see fig. 15 for next assembly)	NP	4-393
	159-48113-11	LINER INSTL, WCS fuel tank LH (see fig. 16 for next assembly)	NP	394-
	159-48113-12	LINER INSTL, WCS fuel tank RH (see fig. 16 for next assembly)	NP	394-
-1	159-48128-1	. LINER ASSY, WCS fuel tank sta 76 9/32 inboard end LH	1	4-393
	159-48128-2	. LINER ASSY, WCS fuel tank sta 76 9/32 inboard end RH	1	4-393
	159-48128-49	. LINER ASSY, WCS fuel tank sta 76 9/32 inboard end LH	1	394-
	159-48128-50	. LINER ASSY, WCS fuel tank sta 76 9/32 inboard end RH	1	394-
-2	159-48139-1	. COVER, WCS fuel tank liner access hole LH	1	
	159-48139-2	. COVER, WCS fuel tank liner access hole RH	1	
-3	159-48132	. COVER, WCS fank liner lower bomb rack attaching fittings	1	
-4	159-48131	. COVER, WCS tank liner lower gun package attaching fittings	2	
-5	159-48136-1	. LINER ASSY, Wing center section fuel tank lower LH	1	4-393
	159-48136-2	. LINER ASSY, Wing center section fuel tank lower RH	1	4-393
	159-48136-11	. LINER ASSY, Wing center section fuel tank lower LH	1	394-
	159-48136-12	. LINER ASSY, Wing center section fuel tank lower RH	1	394-
-6	159-48137-1	. LINER ASSY, Wing center section fuel tank upper LH	1	4-393
	159-48137-2	. LINER ASSY, Wing center section fuel tank upper RH	1	4-393
	159-48137-5	. LINER ASSY, Wing center section fuel tank upper LH	1	394-
	159-48137-6	. LINER ASSY, Wing center section fuel tank upper RH	1	394-
	159-48134	. . SUPPORT ASSY, Wing center section fuel tank spring	2	
-7	159-48070	. . . SPRING, WCS fuel cell fitting suspension	1	

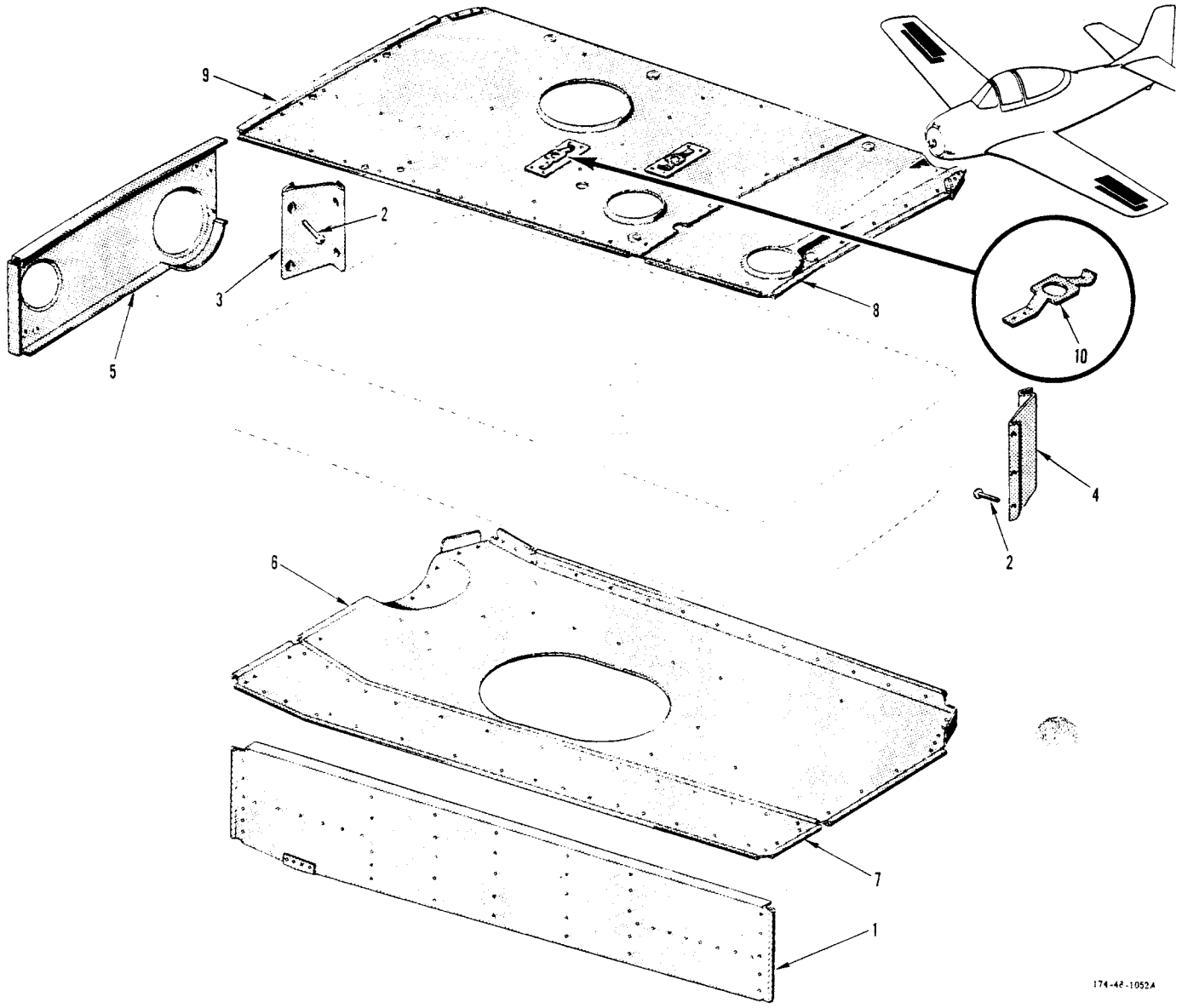


FIGURE 31 - WING OUTER PANEL FUEL TANK LINERS

FIGURE & INDEX NUMBER	PART NUMBER	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
31	174-48301-1	LINER INSTALLATION, Wing outer panel fuel tank LH (see figure 10 for next assembly)	NP	394-
	174-48301-2	LINER INSTALLATION, Wing outer panel fuel tank RH (see figure 10 for next assembly)	NP	394-
-1	174-48304-1	. LINER ASSY, Wing outer panel fuel tank front spar LH	1	394-
	174-48304-2	. LINER ASSY, Wing outer panel fuel tank front spar RH	1	394-
-2	7S14CN1032-8A	. SCREW	10	394-
	AN960C10L	. WASHER	10	394-
-3	174-48307-1	. DOOR, WOP fuel tank liner inboard fitting access LH	1	394-
	174-48307-2	. DOOR, WOP fuel tank liner inboard fitting access RH	1	394-
-4	174-48306-1	. DOOR, WOP fuel tank aileron hinge bracket access LH	1	394-
	174-48306-2	. DOOR, WOP fuel tank aileron hinge bracket access RH	1	394-
-5	174-48305-1	. LINER, Wing outer panel fuel tank sta 154.125 LH	1	394-
	174-48305-2	. LINER, Wing outer panel fuel tank sta 154.125 RH	1	394-
-6	174-48303-3	. LINER ASSY, Wing outer panel fuel tank lower LH	1	394-
	174-48303-4	. LINER ASSY, Wing outer panel fuel tank lower RH	1	394-
-7	174-48303-5	. LINER ASSY, Wing outer panel fuel tank lower LH	1	394-
	174-48303-6	. LINER ASSY, Wing outer panel fuel tank lower RH	1	394-
-8	174-48302-5	. LINER ASSY, Wing outer panel fuel tank upper LH	1	394-
	174-48302-6	. LINER ASSY, Wing outer panel fuel tank upper RH	1	394-
-9	174-48302-3	. LINER ASSY, Wing outer panel fuel tank upper LH	1	394-
	174-48302-4	. LINER ASSY, Wing outer panel fuel tank upper RH	1	394-
	159-48134	. . SUPPORT ASSY, Wing center section fuel tank spring	2	394-
-10	159-48070	. . . SPRING, WCS fuel cell fitting suspension	1	394-

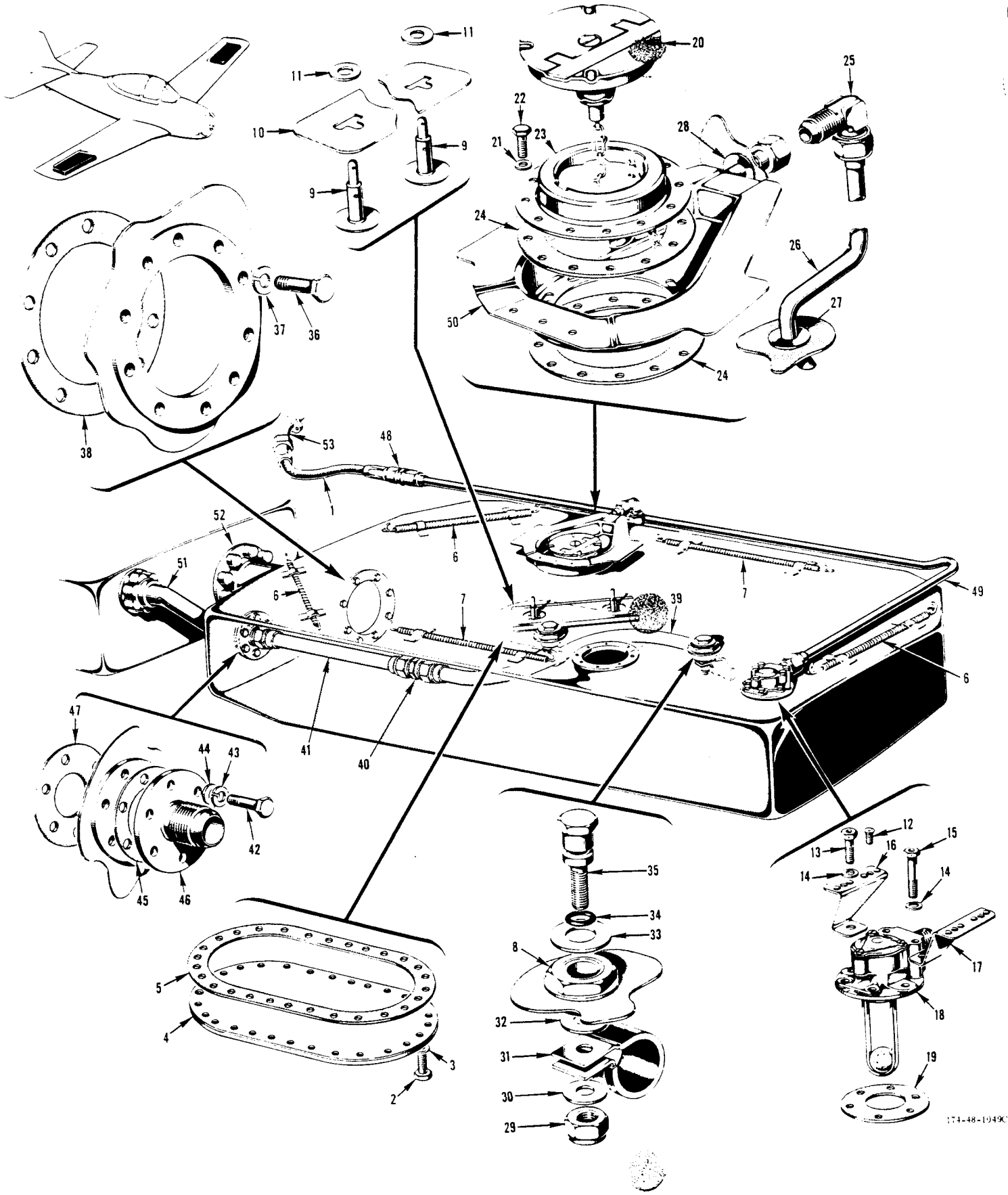


FIGURE 32 - WING OUTER PANEL FUEL SYSTEM EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
32	174-48300-1	FUEL SYSTEM EQUIPMENT INSTALLATION, Wing outer panel LH. . . . . (see figure 5 for next assembly)	NP	394-
	174-48200-2	FUEL SYSTEM EQUIPMENT INSTALLATION, Wing outer panel RH. . . . . (see figure 5 for next assembly)	NP	394-
-1	3H3-12-17 1-2 (AN6264-12D17 1-2)	. HOSE ASSEMBLY, Plastic covered (North American)	1	394-
-2	AN74-4	. BOLT.	24	394-
-3	AN960D416	. WASHER.	48	394-
-4	159-48063	. COVER ASSY, Wing center section fuel tank access.	1	394-
-5	159-48064	. GASKET, Wing center section fuel tank access door	1	394-
-6	174-48023	. SPRING, Fuel cell hanger (supersedes Pacific Coast . . . . . Engineering Co. No. PS5223B7-6 which may be used interchangeably until stock is exhausted)	3	394-
-7	174-48025	. SPRING, Fuel cell hanger (supersedes Pacific Coast. . . . . Engineering Co. No. PS5223B12-6 which may be used interchangeably until stock is exhausted)	2	394-
	174-48003-1	. CELL ASSEMBLY, Wing outer panel cell LH (United States. . . . Rubber No. FCB20685)	1	394-
	174-48003-2	. CELL ASSEMBLY, Wing outer panel cell RH (United States. . . . Rubber No. FCB21686)	1	394-
-8	FCB20509	. . BUSHING ASSEMBLY (United States Rubber).	2	394-
-9	159-48068	. STUD, WCS fuel cell float clearance stiffener attaching . . .	2	394-
-10	174-48005	. STIFFENER, WOP fuel cell float clearance.	1	394-
-11	2W1AL20-32-64	. WASHER, Plain (North American).	2	394-
-12	AN507-1032R7	. SCREW	2	394-
-13	AN4H5A	. BOLT	4	394-
-14	AN960D416L	. WASHER.	6	394-
-15	AN4H15A	. BOLT.	2	394-
-16	174-48193-1	. BRACKET ASSY, WOP fuel vent anti-slosh valve supporting LH. .	1	394-
-17	174-48193-2	. BRACKET ASSY, WOP fuel vent anti-slosh valve supporting RH. .	1	394-
-18	159-48074	. VALVE ASSY, Fuel tank vent slosh (see figure 33 for . . . . . detail breakdown)	1	394-
-19	159-48051	. GASKET, WCC fuel tank vent and fuel out-fitting	1	394-
-20	3955435	. CAP ASSEMBLY, Fuel tank filler (Universal Metal Products) . .	1	394-
-21	AN960D416	. WASHER.	12	394-
-22	AN74-4	. BOLT.	12	394-
-23	30071	. ADAPTER ASSEMBLY, Wing fuel cell filler cap (Universal. . . . Metal Products	1	394-
-24	174-48182	. GASKET, Center section wing fuel filling interconnector . . .	2	394-
-25	AN831-6D	. ELBOW	1	394-
-26	174-48801-11	. LINE ASSY, Wing outer panel fuel scupper drain LH	1	394-
	174-48801-15	. LINE ASSY, Wing outer panel fuel scupper drain RH	1	394-
-27	AN931-6S10	. GROMMET	1	394-
-28	AN931-6S16	. GROMMET	1	394-
-29	AN365-1032	. NUT	2	394-
-30	AN960D10	. WASHER.	2	394-
-31	755-16-2-8	. CLAMP, Line supporting (Adel Precision)	2	394-
-32	2W1AL16-24-64	. WASHER, Plain (North American).	2	394-
-33	2W1AL26-30-64	. WASHER, Plain (North American).	2	394-
-34	934-5	. PACKING	2	394-
-35	174-48195	. BOLT, Wing outer panel fuel tank vent line support.	2	394-
-36	AN4-6A	. BOLT.	8	394-
-37	AN935-416	. WASHER.	8	394-
-38	174-48123	. GASKET, Wing center section fuel filling interconnector . . .	1	394-
-39	174-48801-5	. LINE ASSY, Wing outer panel fuel vent LH interconnector . . . internal section No. 2	1	394-
	174-48801-6	. LINE ASSY, Wing outer panel fuel vent RH interconnector . . . internal section No. 2	1	394-
-40	AN815-16D	. Union	1	394-
-41	174-48801-3	. LINE ASSY, Wing outer panel fuel vent LH interconnector . . . internal section No. 1	1	394-
	174-48801-4	. LINE ASSY, Wing outer panel fuel vent RH interconnector . . . internal section No. 1	1	394-
-42	AN4-7A	. BOLT.	6	394-
-43	AN935-416	. WASHER.	6	394-
-44	AN960C416L	. WASHER.	6	394-
-45	174-48175	. GASKET, Wing outer panel fuel vent interconnector nipple . .	1	394-
-46	174-48181	. NIPPLE, Wing outer panel fuel vent interconnector	1	394-
-47	174-48177	. GASKET, Center section wing fuel vent interconnector.	1	394-
-48	AN815-12D	. UNION	1	394-
-49	174-48801-9	. LINE ASSY, Wing outer panel fuel vent LH side	1	394-
	174-48801-10	. LINE ASSY, Wing outer panel fuel vent RH side	1	394-
-50	174-48190	CUP ASSEMBLY, WOP fuel tank filler support (see figure 10) . . .	Ref	
-51	174-48179	TUBE ASSY, WCS fuel vent interconnector (see figure 27). . . .	Ref	
-52	174-48186	INTERCONNECTOR ASSY, Center section wing fuel filling. . . . . (see figure 27)	Ref	
-53	159-48029	ELBOW, WCS fuel vent line rear spar (see figure 27).	Ref	

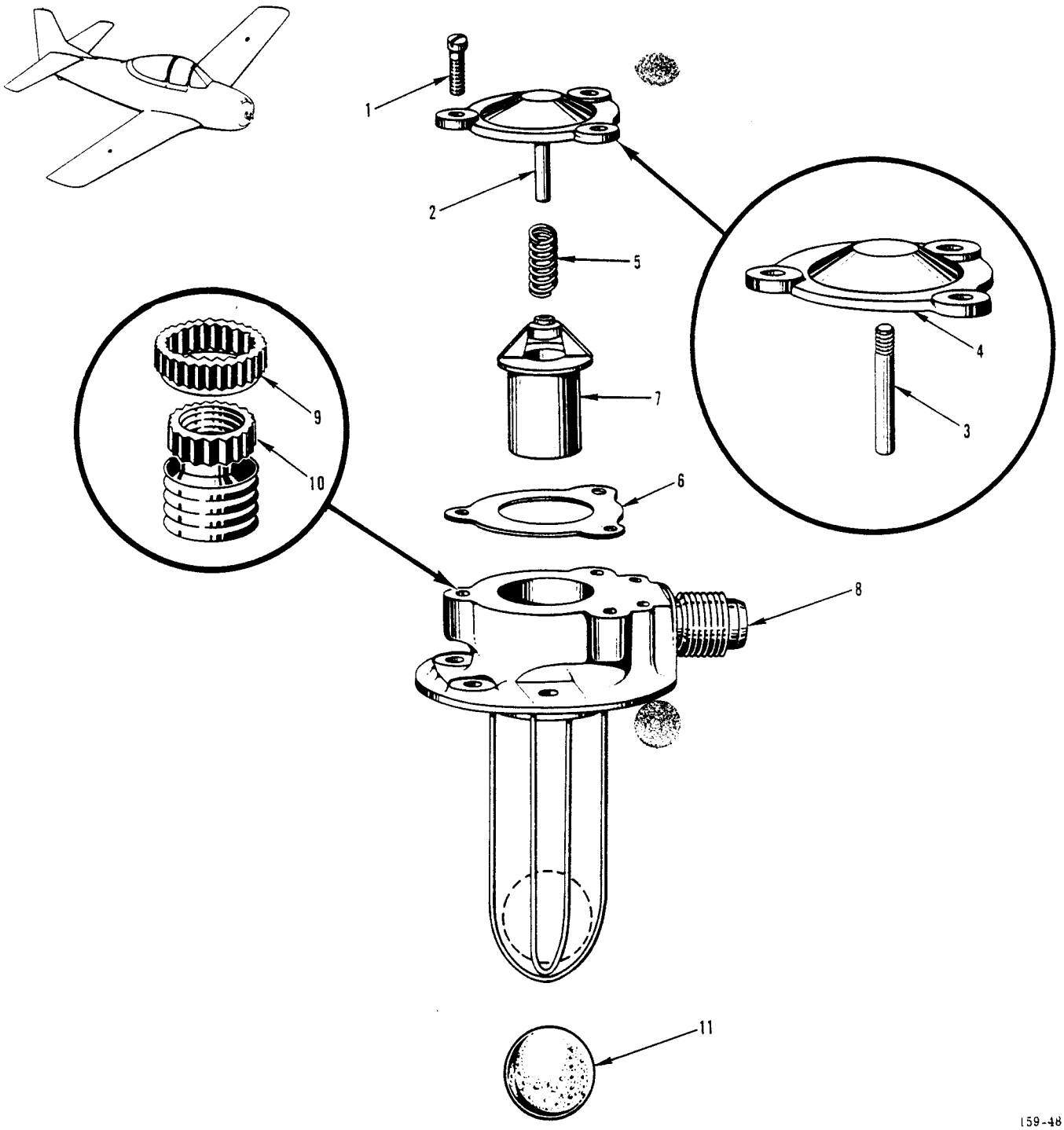


FIGURE 33 - FUEL TANK VENT SLOSH VALVE ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
33	159-48074	VALVE ASSEMBLY, Fuel tank vent slosh (see figure 26 and 32 for next assembly)	Ref	
-1	AN500A6-8	. SCREW	3	
-2	159-48077	. CAP ASSEMBLY, Fuel tank vent slosh valve	1	
-3	159-48079	. . PIN, Fuel tank vent slosh valve poppet guide	1	
-4	159-48078	. . CAP, Fuel tank vent slosh valve	1	
-5	159-48081	. SPRING, Fuel tank vent slosh valve	1	
-6	159-48082	. GASKET, Fuel tank vent slosh valve cap	1	
-7	159-48080	. POPPET, Fuel tank vent slosh valve	1	
-8	159-48075	. HOUSING ASSEMBLY, Fuel tank vent slosh valve	1	
	159-48076	. . BODY ASSEMBLY, Fuel tank vent slosh valve	1	
-9	RL18SE6	. . . RING, Slosh valve housing (Rosan)	3	
-10	R103SH5	. . . INSERT, Slosh valve housing (Rosan)	3	
-11	159-48083	. FLOAT, Fuel tank vent slosh valve	1	

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WING INSTRUMENTS

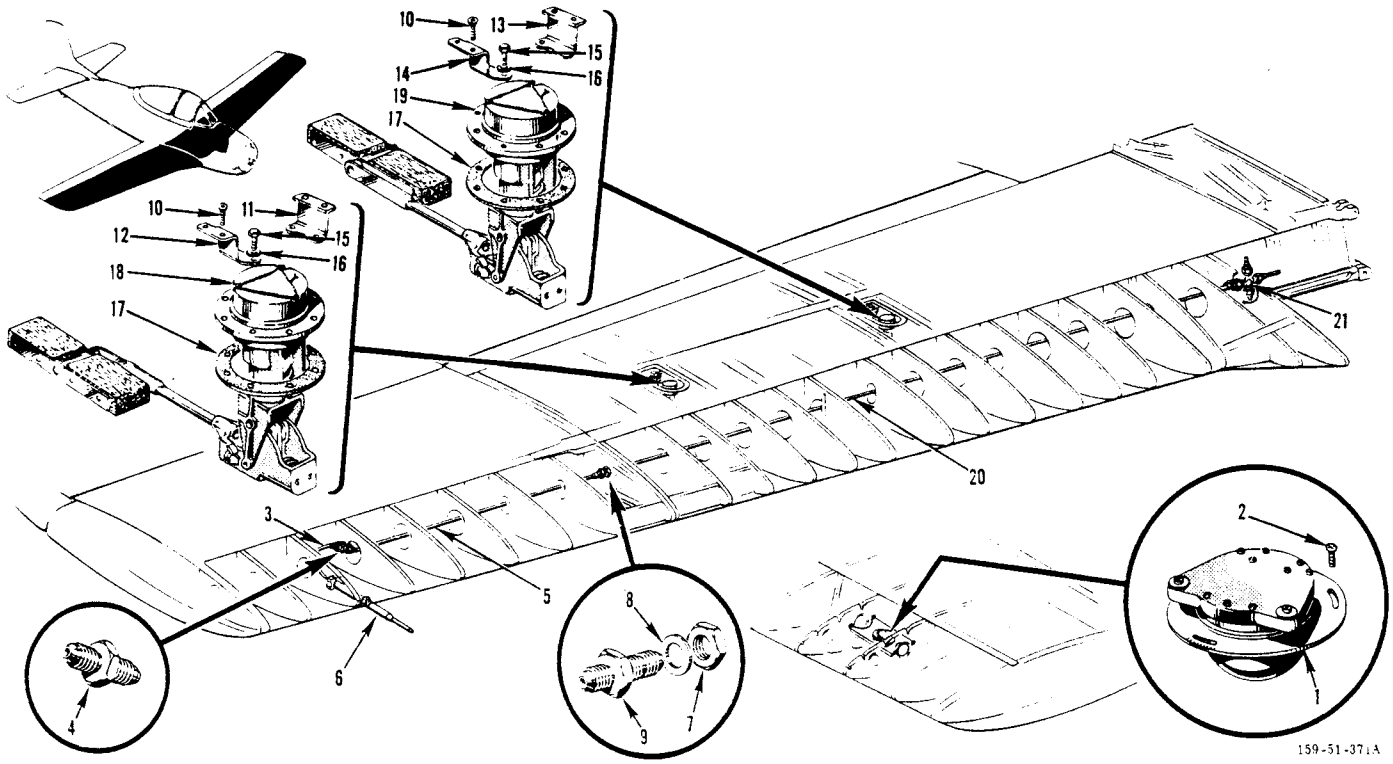

FIGURE 34 - WING INSTRUMENT EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
34		WING INSTRUMENT EQUIPMENT		
	159-51014	. INSTRUMENT EQUIPMENT INSTALLATION, Left outer wing . . . . . (see figure 7 for next assembly)	NP	4-393
-1	664543	. . TRANSMITTER ASSEMBLY, Remote compass type C2 (Spec 27635) (Sperry Gyroscope CFAE	1	4-393
		ATTACHING PARTS		
-2	TS14CN632-8A	. . SCREW, Round head corrosion resistant (North American) . .	3	4-393
		---*---		
	159-51114	. INSTRUMENT EQUIPMENT INSTALLATION, Right outer wing . . . . . (see figure 7 for next assembly)	NP	4-393
-3	159-51801-28	. . LINE ASSY, Pitot tube to drain sump (section 1)	1	4-393
-4	AN815-4D	. . UNION	1	4-393
-5	159-51801-30	. . LINE ASSY, Pitot tube to drain sump (section 2)	1	4-393
-6	No Number	. . TUBE ASSY, Electrically heated pitot (Spec 94-27378) . . . (type G1) (supersedes AN5813-1)	1	4-393
	159-51013-2	. INSTRUMENT EQUIPMENT INSTALLATION, Wing center section RH . . (see figure 13 for next assembly)	NP	4-393
	159-51013-1	. INSTRUMENT EQUIPMENT INSTALLATION, Wing center section LH . . (see figure 13 for next assembly)	NP	4-393
-7	AN924-4D	. . NUT (right wing)	1	4-393
-8	AN960D716	. . WASHER (right wing)	1	4-393
-9	AN832-4D	. . UNION (right wing)	1	4-393
-10	AN507-1032R8	. . SCREW	4	4-393
-11	159-48024-2	. . SUPPORT ASSY, Wing center section outboard fuel . . . . . quantity transmitter inner (right wing)	1	4-393
	159-48024-1	. . SUPPORT ASSY, Wing center section outboard fuel . . . . . quantity transmitter inner (left wing)	1	4-393
-12	159-48057-2	. . SUPPORT ASSY, Wing center section outboard fuel . . . . . quantity transmitter outer (right wing)	1	4-393
	159-48057-1	. . SUPPORT ASSY, Wing center section outboard fuel . . . . . quantity transmitter outer (left wing)	1	4-393
-13	159-48023-2	. . SUPPORT ASSY, WCS inboard fuel quantity transmitter . . .	1	4-393
-14	159-48023-1	. . SUPPORT ASSY, WCS inboard fuel quantity transmitter . . .	1	4-393
-15	AN74-6	. . BOLT	16	4-393
-16	AN960D416	. . WASHER	24	4-393
-17	159-48026	. . GASKET, WCS fuel tank quantity transmitter	2	4-393
-18	EA850-643	. . TANK UNIT ASSY, Outer (right wing) (Liquidometer)	1	4-393
	EA850-636	. . TANK UNIT ASSY, Outer (left wing) (Liquidometer)	1	4-393
-19	EA850-644	. . TANK UNIT ASSY, Inner (right wing) (Liquidometer)	1	4-393
	EA850-637	. . TANK UNIT ASSY, Inner (left wing) (Liquidometer)	1	4-393
-20	159-51801-32	. . LINE ASSY, Pitot tube to drain sump (sect.3)(right wing) .	1	4-393
-21	AN827-4D	CROSS (see figure 96)	Ref	

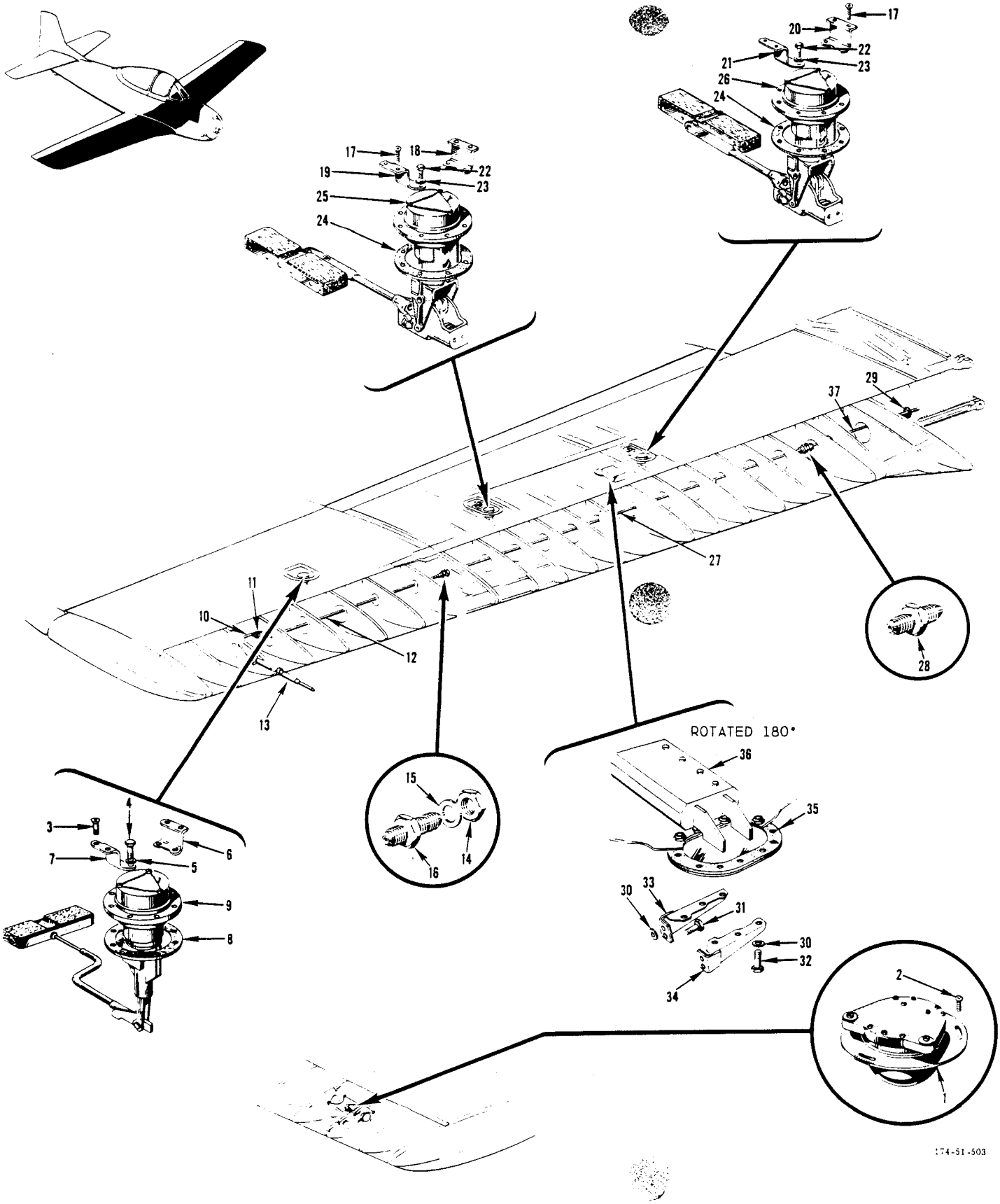

FIGURE 35 - WING INSTRUMENT EQUIPMENT

WING INSTRUMENTS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
35		WING INSTRUMENT EQUIPMENT		
	174-51114	. INSTRUMENT EQUIPMENT INSTALLATION, Right outer wing . . . . . (see figure 3 for next assembly)	NP	394-
	174-51014	. INSTRUMENT EQUIPMENT INSTALLATION, Left outer wing . . . . . (see figure 3 for next assembly)	NP	394-
-1	No Number	. . TRANSMITTER ASSY, Remote compass type C2 . . . . . (Spec 27535) (GFAE) (AERNC 60-1476) (left wing)	1	394-
	ATTACHING PARTS			
-2	TS14CN632-8A	. . SCREW, Round head corrosion resistant (North American) . . (left wing)	3	394-
	---*---			
-3	AN507-1032R7	. . SCREW	2	394-
-4	AN502-416-12	. . SCREW	8	394-
-5	AN960D416	. . WASHER	12	394-
-6	159-48023-1	. . SUPPORT ASSY, WCS inboard fuel quantity transmitter LH . .	1	394-
-7	159-48023-2	. . SUPPORT ASSY, WCS inboard fuel quantity transmitter RH . .	1	394-
-8	159-48026	. . GASKET, WCS fuel tank quantity transmitter	1	394-
-9	EA1030-792	. . TANK UNIT ASSEMBLY (right wing) (Liquidometer)	1	394-
	EA1030-793	. . TANK UNIT ASSEMBLY (left wing) (Liquidometer)	1	394-
-10	159-51801-28	. . LINE ASSY, Pitot tube to drain sump (section 1) (RH) . . .	1	394-
-11	AN815-4D	. . UNION (right wing)	1	394-
-12	159-51801-30	. . LINE ASSY, Pitot tube to drain sump (section 2) (RH) . . .	1	394-
-13	AN5813-1	. . TUBE ASSY, Electrically heated pitot (screws furnished with tube) (GFAE) (AERNC 60-9660) (right wing)	1	394-
	159-51013-2	. INSTRUMENT EQUIPMENT INSTALLATION, Wing center section RH . . (see figure 14 for next assembly)	NP	394-
	159-51013-1	. INSTRUMENT EQUIPMENT INSTALLATION, Wing center section LH . . (see figure 14 for next assembly)	NP	394-
-14	AN924-4D	. . NUT (right wing)	1	394-
-15	AN960D716	. . WASHER (right wing)	1	394-
-16	AN832-4D	. . UNION (right wing)	1	394-
-17	AN507-1032R8	. . SCREW	4	394-
-18	159-48024-2	. . SUPPORT ASSY, WCS outboard fuel quantity transmitter . . . inner (right wing)	1	394-
	159-48024-1	. . SUPPORT ASSY, WCS outboard fuel quantity transmitter . . . inner (left wing)	1	394-
-19	159-48057-2	. . SUPPORT ASSY, Wing center section outboard fuel . . . . . quantity transmitter outer (right wing)	1	394-
	159-48057-1	. . SUPPORT ASSY, Wing center section outboard fuel . . . . . quantity transmitter outer (left wing)	1	394-
-20	159-48023-2	. . SUPPORT ASSY, WCS inboard fuel quantity transmitter . . .	1	394-
-21	159-48023-1	. . SUPPORT ASSY, WCS inboard fuel quantity transmitter . . .	1	394-
-22	AN502-416-12	. . SCREW	16	394-
-23	AN960D416	. . WASHER	24	394-
-24	159-48026	. . GASKET, WCS fuel tank quantity transmitter	2	394-
-25	EA1030-794	. . TANK UNIT ASSEMBLY, Outer (right wing) (Liquidometer) . .	1	394-
	EA1030-795	. . TANK UNIT ASSEMBLY, Outer (left wing) (Liquidometer) . . .	1	394-
-26	EA1030-796	. . TANK UNIT ASSEMBLY, Inner (right wing) (Liquidometer) . .	1	394-
	EA1030-797	. . TANK UNIT ASSEMBLY, Inner (left wing) (Liquidometer) . . .	1	394-
-27	174-51801-18	. . LINE ASSY, Pitot tube to drain sump airspeed pressure . . (section 3) (right wing)	1	394-
-28	AN815-4D	. . UNION (right wing)	1	394-
-29	AN931-11-16	. . GROMMET (right wing)	1	394-
-30	AN960D416	. . WASHER (right wing)	28	394-
-31	AN4-5A	. . BOLT (right wing)	4	394-
-32	AN74-6	. . BOLT (right wing)	12	394-
-33	159-48091-1	. . SUPPORT ASSY, WCS fuel boost pump mounting LH (right wing)	1	394-
-34	159-48091-2	. . SUPPORT ASSY, WCS fuel boost pump mounting RH (right wing)	1	394-
-35	157-48257	. . GASKET, Fuel cell upper fus aft vent manifold seal . . . . (right wing)	1	394-
-36	EA904E1A1	. . LIQUIDENSITOMETER ASSEMBLY (right wing) (Liquidometer) . . (supersedes EA904A-C1 which may be used interchangeably until stock is exhausted)	1	394-
-37	174-51801-20	LINE ASSEMBLY, Pitot tube to drain sump airspeed pressure . . . (section 4) see figure 3)	Ref	

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WING SURFACE CONTROLS

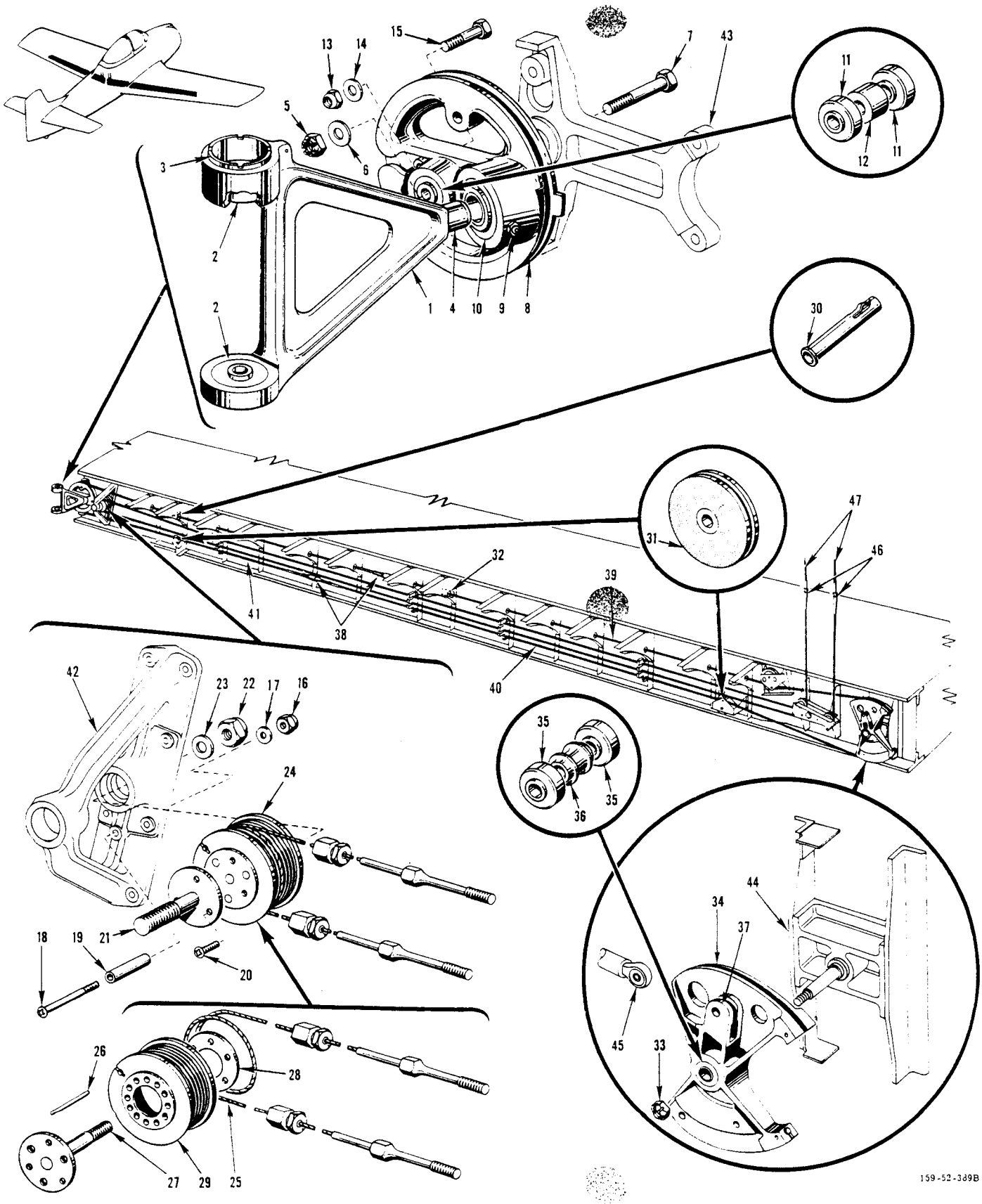


FIGURE 36 - WING SURFACE CONTROLS

WING SURFACE CONTROLS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
36	159-52013-1			SURFACE CONTROLS INSTALLATION, Wing LH (see figure 13 and 14 for next assembly)	NP	
	159-52013-2			SURFACE CONTROLS INSTALLATION, Wing RH (see figure 13 and 14 for next assembly)	NP	
-1	159-52362-5			. FORK ASSEMBLY, Aileron control aileron sta 7 7/16	1	
-2	AN200KP5			. . BEARING.	2	
-3	159-52332			. . RETAINER, Aileron control fork bearing	1	
-4	9156			. . INNER RACE (Torrington).	1	
-5	AN310-8			. NUT	1	
-6	AN960-816			. WASHER	1	
-7	AN178-27			. BOLT.	1	
-8	159-52361-3			. QUADRANT ASSY, Aileron control cable wing outboard LH	1	
	159-52361-5			. QUADRANT ASSY, Aileron control cable wing outboard RH	1	
-9	MAS3-101			. . FITTING, Lubrication	1	
-10	159-52304			. . BEARING ASSEMBLY, Aileron control cable quadrant	1	
	B108XP-0H			. . . BEARING (Torrington).	1	
-11	AN201KP8A			. . BEARING.	2	
-12	4SC-8-400			. . SPACER, Plain, dual bearing (North American)	1	
-13	AN365-428			. NUT	1	
-14	BW1-16-30-93			. WASHER, Plain (North American).	1	
-15	AN4-6A			. BOLT.	1	
-16	AN365-832			. NUT (Left wing only)	2	
-17	AN960D8			. WASHER (Left wing only)	2	
-18	MS3220-34			. SCREW, Brazier head Phillips recess alloy steel 8-32. (left wing)	2	
-19	159-52586			. GUARD, Aileron trim control cable	2	
-20	AN502-10-10			. SCREW, (left wing only)	3	
	AN960D10			. WASHER, (left wing only)	AR	
	AN960D10L			. WASHER, (left wing only)	AR	
-21	159-16235			. SCREW, Aileron trim tab operating mechanism male jack (left wing only)	1	
-22	AN365-428			. NUT, (left wing only)	1	
-23	AN960D416			. WASHER, (left wing only)	1	
-24	159-16229			. DRUM ASSEMBLY, Aileron trim tab operating mechanism (left wing only)	1	
-25	159-52520			. . CABLE ASSEMBLY, Aileron trim tab outboard control	1	
-26	256-6			. . PIN, Locking (North American)	1	
-27	159-16244			. . STUD, Aileron trim tab operating mechanism	1	
-28	159-16245			. . WASHER, Aileron trim tab operating mechanism	1	
-29	321			. . DRUM, Cable (North American) (supersedes 102-52509)	1	
-30	NAS-27K8			. PIN, Pulley guard (left wing only	1	
	NAS-27K10			. PIN, Pulley guard (station 121 and station 181)	3	
	NAS-27K12			. PIN, Pulley guard (inboard) (left wing only)	4	
-31	AN210-3A			. PULLEY	2	
-32	159-52337			. FAIRLEAD, Aileron control cable wing station 101.266	2	
-33	AN310-5			. NUT	1	
	AN960D516			. WASHER	1	
-34	159-52308-11	*		. QUADRANT ASSEMBLY, Aileron control cable inboard LH	1	
	159-52308-12	*		. QUADRANT ASSEMBLY, Aileron control cable inboard RH	1	
-35	AN201KPA			. . BEARING	2	
-36	4ST-11-391			. . SPACER, Flanged dual bearing (North American)	1	
-37	R216SB5			. . INSERT, (Bardwell & McAlister)	1	
	RL216SB8			. . RING, (Bardwell & McAlister)	1	
-38	AN155-32L			. BARREL	2	
-39	159-52305			. CABLE ASSEMBLY, Aileron control inboard upper	1	
-40	159-52306			. CABLE ASSEMBLY, Aileron control inboard lower	1	
-41	159-52318			. CABLE ASSEMBLY, Aileron control outboard	1	
-42	159-16233			SUPPORT ASSEMBLY, Aileron trim and boost tab operating mechanism (figure 12)	Ref	
-43	159-52303			SUPPORT ASSEMBLY, Aileron control quadrant outboard (figure 12).	Ref	
-44	159-52307			SUPPORT ASSEMBLY, Aileron control quadrant inboard (figures 22 and 23)	Ref	
-45	159-52312			TUBE ASSEMBLY, Aileron control sector interconnect (figure 4)	Ref	
-46	AN155-6L			BARREL, (see 159-16001)	Ref	
-47	159-52519			CABLE ASSEMBLY, Aileron trim tab inboard control (figure 24)	Ref	

* 159-52308-1 or -2 when T. O. 01-60FGA-22 is incorporated, is equivalent to 159-52308-11 or -12. 159-52308-11 or -12 should be used for future procurement.

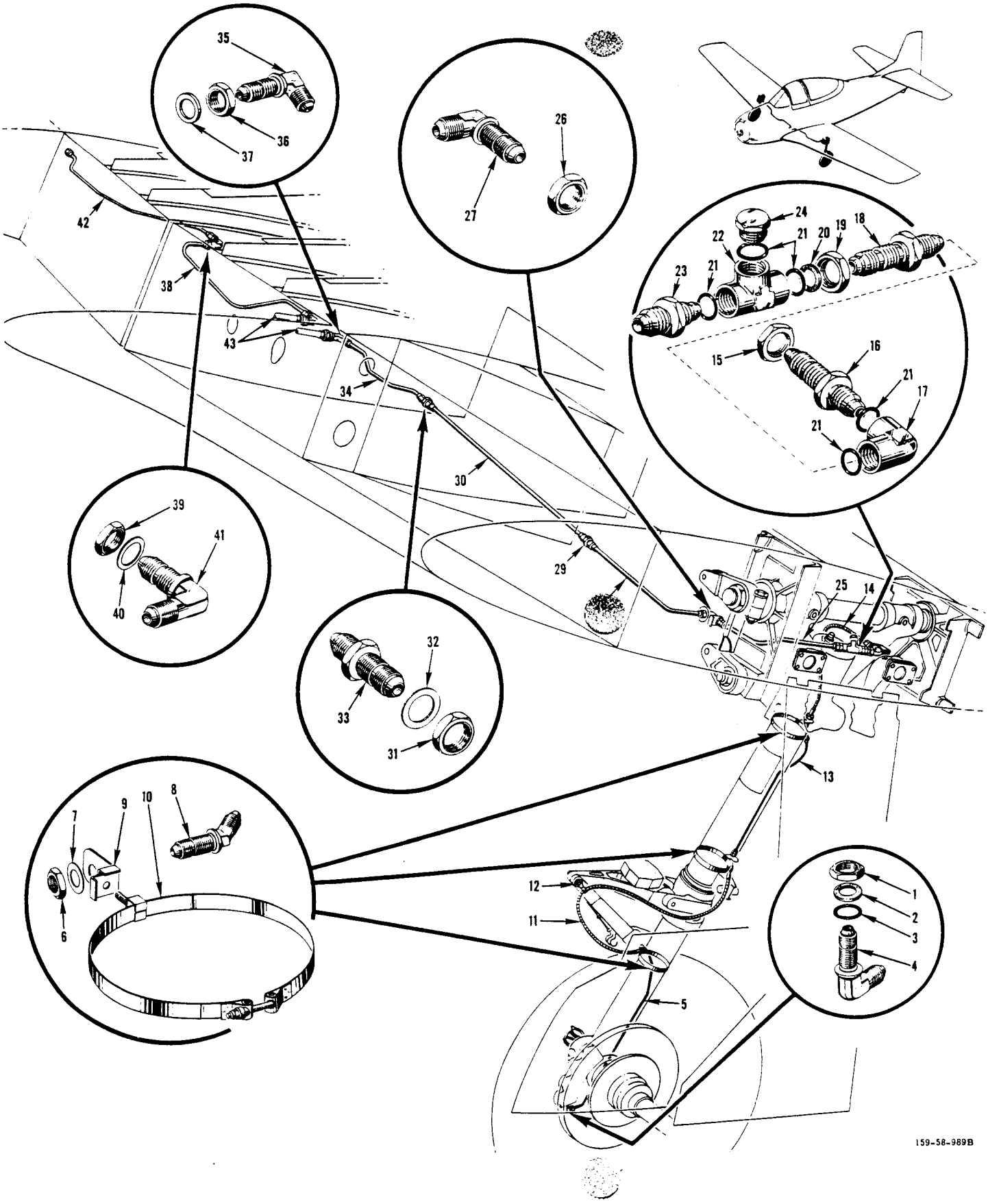


FIGURE 37 - WING BRAKE PRESSURE HYDRAULIC EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
37			WING BRAKE PRESSURE HYDRAULIC EQUIPMENT		
	159-58013-1	.	HYDRAULIC EQUIPMENT INSTALLATION, Wing LH (see figure 13. . . . and 14 for next assembly)	NP	
	159-58013-2	.	HYDRAULIC EQUIPMENT INSTALLATION, Wing RH (see figure 13. . . and 14 for next assembly)	NP	
	No Number	. .	WING MAIN LANDING GEAR HYDRAULIC EQUIPMENT (see . . . . . figure 38 for detail breakdown)	NP	
-1	AN6289-4	. .	NUT	1	
-2	AN6291-4	. .	RING	1	
-3	AN6290-4	. .	GASKET	1	
-4	AN833-4	. .	ELBOW	1	
-5	159-58813-3	. .	LINE ASSEMBLY, LH brake pressure from lower 45° elbow. . . on strut to 90° elbow on wheel brake spots	1	
	159-58813-4	. .	LINE ASSEMBLY, RH brake pressure from lower 45° elbow. . . on strut to 90° elbow on wheel brake spots	1	
-6	AN924-4	. .	NUT.	3	
-7	AN960C716	. .	WASHER	3	
-8	AN837-4	. .	ELBOW.	3	
-9	159-58247-1	. .	SUPPORT, Hydraulic brake line LH	3	
	159-58247-2	. .	SUPPORT, Hydraulic brake line RH	3	
-10	21675-2.968-1	. .	CLAMP, Lower (Marman Products)	1	
	21675-3.687-1	. .	CLAMP, Center (Marman Products) (see 159-33101).	Ref	
	21675-3.875-2	. .	CLAMP, Upper (Marman Products)	1	
-11	AN6271-4-25 1-4	. .	HOSE ASSEMBLY.	1	
-12	159-58248	. .	GUIDE, Hydraulic landing gear flexible brake line.	1	
-13	159-58813-5	. .	LINE ASSEMBLY, LH brake pressure from upper 45° elbow. . . on strut to center 45° elbow on strut	1	
	159-58813-6	. .	LINE ASSEMBLY, RH brake pressure from upper 45° elbow. . . on strut to center 45° elbow on strut	1	
-14	AN6271-4-15	. .	HOSE ASSEMBLY.	1	
-15	AN924-4	. .	NUT.	1	
-16	AN832-4	. .	UNION.	1	
-17	AN927-4D	. .	ELBOW.	1	
-18	AN832-4	. .	UNION.	1	
-19	AN6289D4	. .	NUT.	1	
-20	AN6291-4	. .	RING	5	
-21	AN6290-4	. .	GASKET	1	
-22	AN926-4D	. .	TEE.	1	
-23	AN919-6D	. .	REDUCER.	1	
-24	AN814-4D	. .	PLUG AND BLEEDER	1	
-25	159-58813-33	. .	LINE ASSEMBLY, LH brake pressure from 90° elbow wing . . . station 65 to bleeder tee wing station 75	1	
	159-58813-35	. .	LINE ASSEMBLY, RH brake pressure from 90° elbow wing . . . station 65 to bleeder tee wing station 75	1	
-26	AN924-6D	. .	NUT.	1	
-27	AN833-6D	. .	ELBOW.	1	
-28	159-58813-7	. .	LINE ASSEMBLY, LH brake pressure from union wing . . . . . station 51.75 to reducer wing station 65	1	
	159-58813-8	. .	LINE ASSEMBLY, RH brake pressure from union wing . . . . . station 51.75 to reducer wing station 65	1	
-29	AN815-6D	. .	UNION.	1	
-30	159-58813-9	. .	LINE ASSEMBLY, LH brake pressure from union wing . . . . . station 30 to union wing station 51.75	1	
	159-58813-10	. .	LINE ASSEMBLY, RH brake pressure from union wing . . . . . station 30 to union wing station 51.75	1	
-31	AN924-6D	. .	NUT.	1	
-32	AN960D916	. .	WASHER	1	
-33	AN832-6D	. .	UNION.	1	
-34	159-58813-11	. .	LINE ASSEMBLY, LH brake pressure from 90° elbow wing . . . station 19 to union wing station 30	1	
-35	AN833-6D	. .	ELBOW (LH)	2	
-36	AN924-6D	. .	NUT (LH)	2	
-37	AN960D916	. .	WASHER (LH).	2	
-38	159-58813-13	. .	LINE ASSEMBLY, RH brake pressure from 90° elbow wing . . . station 17 to elbow wing station 2	1	4-393
	159-58813-67	. .	LINE ASSEMBLY, RH brake pressure from 90° elbow wing . . . station 17 to union wing station 2	1	394-
-39	AN924-6D	. .	NUT (RH)	1	4-393
-40	AN960D916	. .	WASHER (RH).	1	4-393
-41	AN833-6D	. .	ELBOW (RH)	1	4-393
	AN815-6D	. .	UNION.	1	394-
-42	159-58813-15	. .	LINE ASSEMBLY, RH brake pressure from elbow wing station . 1 to union wing station 30	1	4-393
	159-58813-65	. .	LINE ASSEMBLY, RH brake pressure from union wing station . 1 to union wing station 30	1	394-
-43	For Wing to Fuselage Mating Lines see 159-58023 Brake Pressure Equipment Fig. 139 .			Ref	

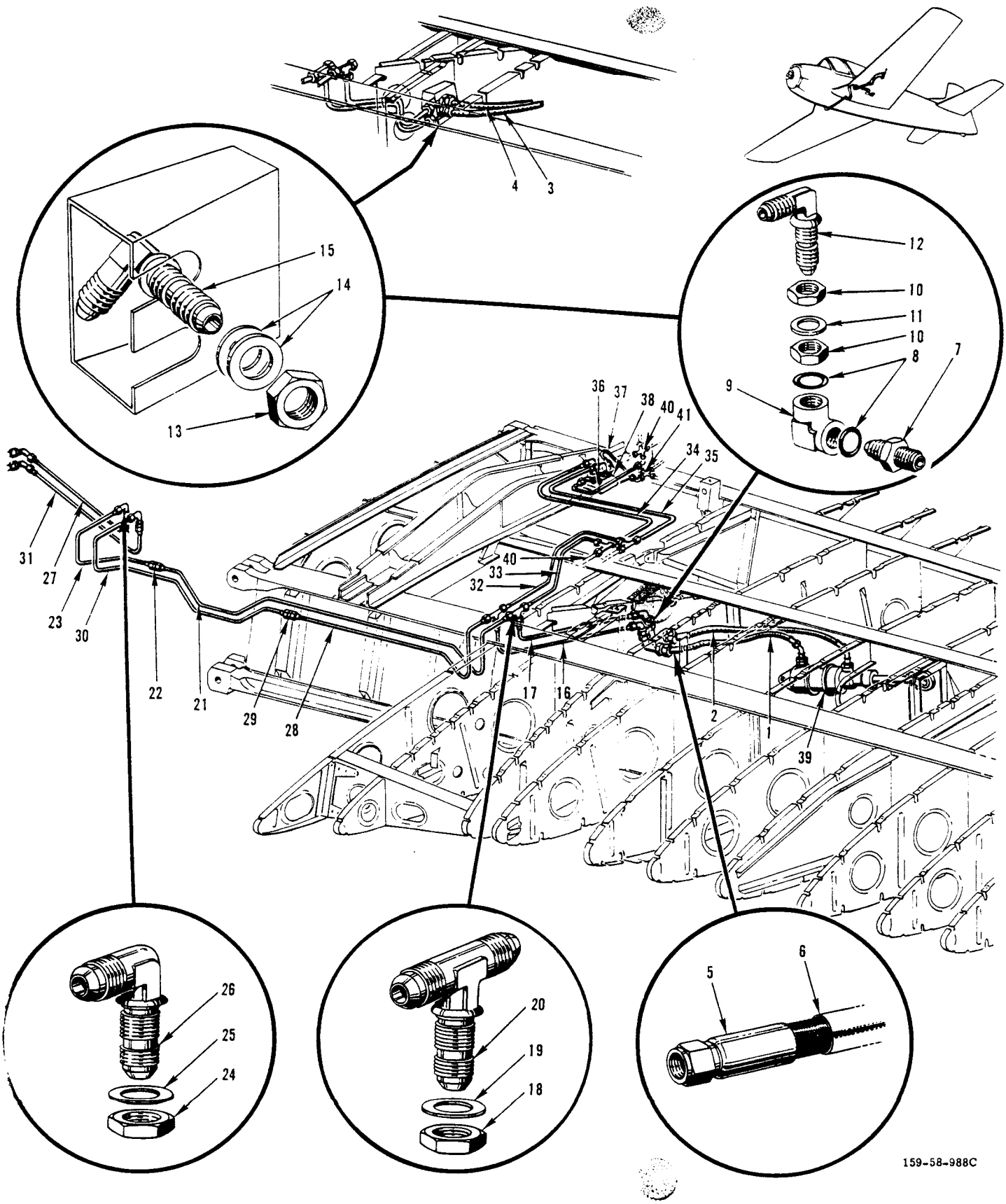


FIGURE 38 - WING MAIN LANDING GEAR AND MATING FUSELAGE TO WING HYDRAULIC EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
38			WING MAIN LANDING GEAR AND MATING FUSELAGE TO WING HYD EQUIPMENT		
	No Number	.	WING MAIN LANDING GEAR HYDRAULIC EQUIPMENT (see figure 37 for next assembly)	NP	
-1	159-58812-1	. .	HOSE ASSY, Hyd main landing gear cylinder (LG up)	1	4-10
-2	159-58812-2	. .	HOSE ASSY, Hyd main landing gear cylinder (LG down)	1	4-10
-3	3H3-6-15 3/4 (AN6271-6-15 3/4)	. .	HOSE ASSY, Plastic covered (North American) (LG up) (supersedes 159-58-12-3 for future procurement)	1	11-
	159-58-12-3	. .	HOSE ASSY, Hyd main landing gear cyl (LG up) (superseded by 3H3-6-15 3/4 (AN6271-6-15 3/4)	1	11-
-4	3H3-6-22 1/2 (AN6271-6-22 1/2)	. .	HOSE ASSY, Plastic covered (North American) (LG down) (supersedes 159-58-12-4 for future procurement)	1	11-
	159-58-12-4	. .	HOSE ASSY, Hyd main landing gear cyl (LG down) (superseded by 3H3-6-22 1/2 (AN6271-6-22 1/2)	1	11-
-5	AN6271-6-13 1-4	. . .	HOSE ASSEMBLY (LG up)	1	4-10
	AN6271-6-20 1-2	. . .	HOSE ASSEMBLY (LG down)	1	4-10
	AN6271-6-15 3-4	. . .	HOSE ASSEMBLY (LG up)	1	11-
	AN6271-6-22 1-2	. . .	HOSE ASSEMBLY (LG down)	1	11-
-6	159-58-12-7	. . .	COVER, Hyd main landing gear cylinder nose (LG up)	1	4-10
	159-58-12-8	. . .	COVER, Hyd main landing gear cylinder nose (LG down)	1	4-10
	159-58-12-9	. . .	COVER, Hyd main landing gear cylinder nose (LG up)	1	11-
	159-58-12-10	. . .	COVER, Hyd main landing gear cylinder nose (LG down)	1	11-
-7	AN815-6D	. .	UNION	2	4-10
-8	AN6227-9	. .	PACKING	4	4-10
-9	AN927-6D	. .	ELBOW	2	4-10
-10	159-58-26	. .	NUT, Hydraulic nose instl aux landing gear beam jam	4	4-10
-11	AN960D916	. .	WASHER	2	4-10
-12	AN833-6D	. .	ELBOW	2	4-10
-13	AN924-6D	. .	NUT	2	11-
-14	AN960D916	. .	WASHER	4	11-
-15	AN833-6D	. .	ELBOW	2	11-
-16	159-58813-19	. .	LINE ASSEMBLY, LH landing gear up from tee wing station 23 1/4 to 90° elbow wing station 40	1	4-10
	159-58813-37	. .	LINE ASSEMBLY, LH landing gear up from tee wing station 23 1/4 to 90° elbow wing station 40	1	11-
-17	159-58813-17	. .	LINE ASSY, LH LG down from tee wing sta 24 1/4 to 90° elbow	1	4-10
	159-58813-39	. .	LINE ASSY, LH LG down from tee wing sta 24 1/4 to 90° elbow	1	11-
-18	AN924-6D	. .	NUT (LH side)	2	
-19	AN960D916	. .	WASHER (LH side)	2	
-20	AN833-6D	. .	TEE (LH side)	2	
-21	159-58813-29	. .	LINE ASSEMBLY, LH landing gear down from tee wing station 24 1/2 LH to union wing station 5 RH	1	
-22	AN815-6D	. .	UNION (RH side)	1	
-23	159-58813-21	. .	LINE ASSEMBLY, RH landing gear down from union wing station 5 RH to 90° elbow wing station 24 1/2 RH	1	
-24	AN924-6D	. .	NUT (RH side)	2	
-25	AN960D916	. .	WASHER (RH side)	2	
-26	AN833-6D	. .	ELBOW (RH side)	2	
-27	159-58813-23	. .	LINE ASSEMBLY, RH landing gear down from 90° elbow wing station 24 1/4 to 90° elbow wing station 40	1	4-10
	159-58813-43	. .	LINE ASSEMBLY, RH landing gear down from 90° elbow wing station 24 1/4 to 90° elbow wing station 40	1	11-
-28	159-58813-31	. .	LINE ASSEMBLY, LH landing gear up from tee wing station 23 1/4 LH to union wing station 5 LH	1	
-29	AN815-6D	. .	UNION (LH)	1	
-30	159-58813-25	. .	LINE ASSEMBLY, RH landing gear up from union wing station 5 LH to 90° elbow wing station 23 1/4 RH	1	
-31	159-58813-27	. .	LINE ASSEMBLY, RH landing gear up from 90° elbow wing station 23 1/4 to 90° elbow wing station 40	1	4-10
	159-58813-41	. .	LINE ASSEMBLY, RH landing gear up from 90° elbow wing station 23 1/4 to 90° elbow wing station 40	1	11-
	159-58023	.	HYDRAULIC EQUIPMENT INSTALLATION, Mating fuselage to wing (see figure 3 for next assy & fig. 39, 139 for additional breakdown)	NP	
-32	159-58810-29	. .	LINE ASSEMBLY, Landing gear up hydraulic fuselage station 113-tee to fuselage station 100 tee on wing LH side	1	4-200
	159-58813-61	. .	LINE ASSEMBLY, LH LG up from fuselage sta 113 tee to tee on wing fuselage sta 100	1	201-
-33	159-58810-27	. .	LINE ASSEMBLY, Landing gear down hydraulic fuselage station 113 tee to fuselage station 99 tee on wing LH side	1	4-200
	159-58813-63	. .	LINE ASSEMBLY, LH LG down from fuselage sta 113 tee to tee on wing fuselage sta 99	1	201-
-34	159-58817-71	. .	LINE ASSEMBLY, Landing gear down hydraulic fuselage station 125 valve to fuselage station 113 tee LH side	1	
-35	159-58817-75	. .	LINE ASSEMBLY, Landing gear up hydraulic fuselage station. 125 valve to fuselage station 113 tee LH side	1	
-36	159-58817-47	. .	LINE ASSEMBLY, Pressure hydraulic fuselage station 125 cross to landing gear valve behind elbow LH side	1	
-37	159-58817-79	. .	LINE ASSEMBLY, Return hydraulic fuselage sta 125 landing gear valve to fuselage sta 126 cross return LH side	1	
-38	159-58048		VALVE ASSY, Hyd landing gear complete control (see fig. 39)	Ref	
-39	159-58628		CYLINDER ASSY, Hyd main LG complete operating (see fig. 216)	Ref	
-40	For continuation of these lines see figure 130 and 119			Ref	
-41	For continuation of these lines see figure 120			Ref	

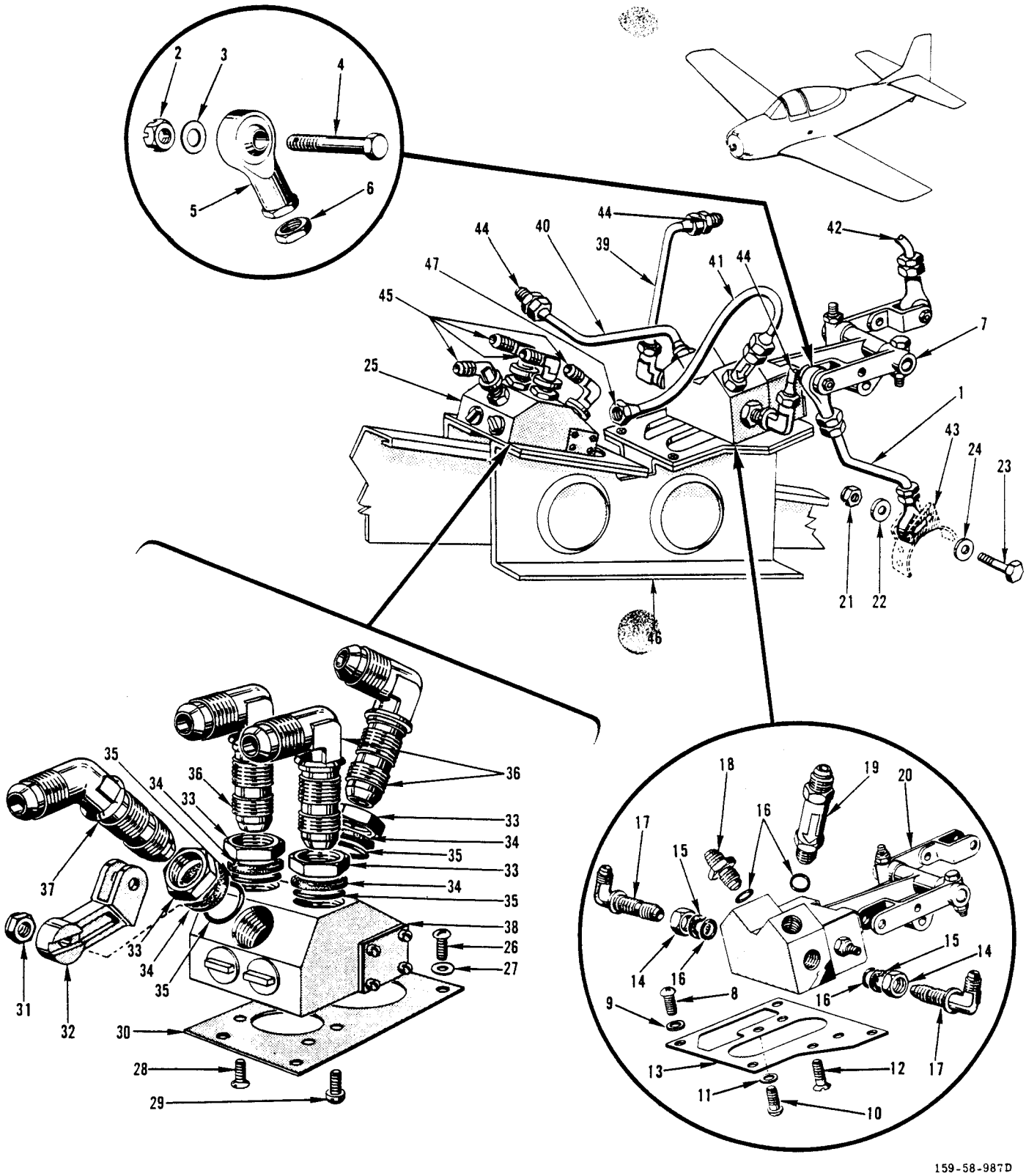


FIGURE 39 - MATING FUSELAGE TO WING HYDRAULIC EQUIPMENT

WING HYDRAULICS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
39	159-58023	HYDRAULIC EQUIPMENT INSTALLATION, Mating fuselage to wing . . . . (see figure 3 for next assembly and figures 38 and 139 for additional breakdown)	NP	
-1	159-58433	. TUBE ASSEMBLY, Hydraulic wing flap selector (LH side)	1	4-393
	174-58233	. TUBE ASSEMBLY, Hydraulic wing flap selector (LH side)	1	394-
		ATTACHING PARTS		
-2	AN320-3	. NUT, (LH side)	2	
-3	AN960-10	. WASHER, (LH side)	2	
-4	AN173-11	. BOLT, (LH side)	2	
		---*---		
-5	REB3N2	. . BEARING, Rod end (Fafnir Bearing)	2	
-6	AN316-5R	. . NUT	2	
-7	159-58046	. VALVE ASSEMBLY, Hydraulic wing flap complete control . . . . (LH side)	1	
		ATTACHING PARTS		
-8	AN520-10R10	. SCREW	4	
-9	AN960D10L	. WASHER	4	
		---*---		
-10	AN509A10-7	. . SCREW	2	
-11	AN960-10L	. . WASHER	2	
-12	AN507-1024R7	. . SCREW	2	
-13	159-58229	. . PLATE, Hydraulic flap selector valve mounting	1	
-14	AN6289D4	. . NUT	2	
-15	AN6291-4	. . RING	2	
-16	AN6290-4	. . GASKET	4	
-17	AN833-4D	. . ELBOW	2	
-18	AN815-4D	. . UNION	1	
-19	AN6207-4	. . VALVE, 1500 PSI hydraulic check	1	
-20	21089	. . VALVE ASSEMBLY, Walking beam four-way (wing flap . . . . selector)(Adel Precision)	1	
-21	AN365-1032	. NUT	1	
-22	AN960-10	. WASHER	1	
-23	AN173-12A	. BOLT	1	4-393
	AN173-13A	. BOLT	1	394-
	AN960D10	. WASHER	2	394-
-24	159-54283	. WASHER, Auxiliary alighting gear taxi light actuating arm . . adjusting	1	
-25	159-58048	. VALVE ASSEMBLY, Hydraulic landing gear complete control . . .	1	
		ATTACHING PARTS		
-26	AN520-10R10	. SCREW	4	
-27	AN960D10L	. WASHER	4	
		---*---		
-28	AN509-10R6	. . SCREW	2	
-29	AN501A10-7	. . SCREW	2	
-30	159-58221	. . PLATE, Hydraulic landing gear selector valve mounting . . .	1	
-31	AN364--28	. . NUT	1	
-32	159-58223	. . LEVER, Hydraulic landing gear selector valve operating . .	1	
-33	AN6289D6	. . NUT	4	
-34	AN6291-6	. . RING	4	
-35	AN6290-6	. . GASKET	4	
-36	AN833-6D	. . ELBOW	3	
-37	AN837-6D	. . ELBOW	1	
-38	AN6210-1	. . VALVE, "In" line type 3 1/2 GPM hydraulic directional . . . control (Adel part No. D10150-2 may be used)	1	
-39	159-58810-25	. LINE ASSEMBLY, Flaps up hydraulic fuselage station 131 . . . . union to wing flap valve bulkhead elbow	1	
-40	159-58817-29	. LINE ASSEMBLY, Return hydraulic fuselage sta 126 cross to . . fuselage sta 131 wing flap selector valve union	1	
-41	159-58817-49	. LINE ASSEMBLY, Pressure hydraulic fuselage station 125 . . . . check valve to wing flap valve reducer	1	
-42	159-58234	ROD ASSEMBLY, Hydraulic wing flap selector valve control . . . . quadrant to valve (See fig. 116)	Ref	
-43	159-58434	ARM ASSEMBLY, Hydraulic flap selector valve control (See fig. 117)	Ref	
-44	For continuation of this equipment see figure 131		Ref	
-45	For continuation of this equipment see figure 38		Ref	
-46	159-58228	SUPPORT ASSEMBLY, Hydraulic flap and alighting gear valve	Ref	
-47	For continuation of this equipment see figure 119		Ref	

WING ELECTRICAL

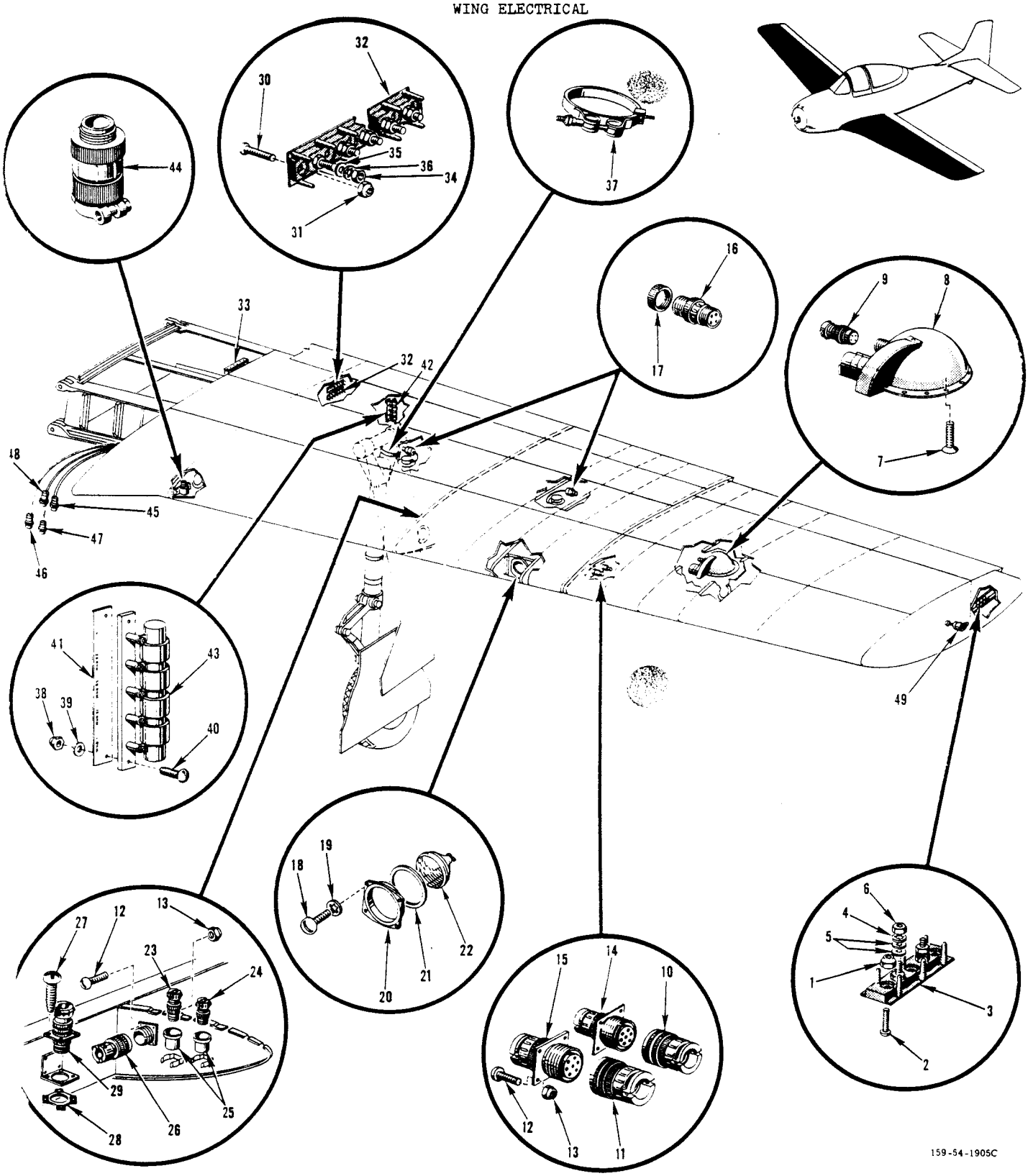


FIGURE 40 - WING ELECTRICAL EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
-0		WING ELECTRICAL EQUIPMENT		
	159-54014-1	. ELECTRICAL EQUIPMENT INSTALLATION, Outboard wing LH (see fig. 7 for next assy)	NP	4-393
	159-54014-2	. ELECTRICAL EQUIPMENT INSTALLATION, Outboard wing RH (see fig. 7 for next assy)	NP	4-393
-1	AN365-440	. . NUT	2	4-393
-2	AN515-4R8	. . SCREW	2	4-393
-3	NAS45-6-2	. . PANEL ASSEMBLY, Electrical connector (left wing)	1	4-393

WING ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
40	MAS45-6-1	. .	PANEL ASSEMBLY, Electrical connector (right wing)	1	4-393
-4	AN936A6	. .	WASHER, (left wing)	2	4-393
	AN936A6	. .	WASHER, (right wing)	1	4-393
-5	AN960-6	. .	WASHER, (left wing)	4	4-393
	AN960-6	. .	WASHER, (right wing)	2	4-393
-6	AN340-6	. .	NUT, (left wing)	2	4-393
	AN340-6	. .	NUT, (right wing)	1	4-393
-7	AN507-632R8	. .	SCREW	15	--393
-8	AN3095-7	*1 . .	LIGHT ASSY, (GFAE)	1	4-393
-9	AN3106-18-5S	. .	PLUG	1	--393
	AN3057-10A	. .	ADAPTER	1	4-393
-10	AN3106-16S1P	. .	PLUG, (left wing)	1	--393
	AN3057-8A	. .	ADAPTER, (left wing)	1	--393
-11	AN3106-18-8P	. .	PLUG, (left wing)	1	--393
	AN3057-10A	. .	ADAPTER, (left wing)	1	4-393
	AN3106-20-21P	*1 . .	PLUG, (right wing)	1	--393
	AN3057-12A	*1 . .	ADAPTER, (right wing)	1	--393
	159-54013-1	.	ELEC EQUIP INSTL, Inner wing LH (see fig. 13 for next assy)	NP	--393
	159-54013-2	.	ELEC EQUIP INSTL, Inner wing RH (see fig. 13 for next assy)	NP	4-393
-12	AN515-4R5	. .	SCREW, (left wing)	12	--393
	AN515-4R5	. .	SCREW, (right wing)	8	--393
-13	AN365-440	. .	NUT, (left wing)	12	--393
	AN365-440	. .	NUT, (right wing)	8	--393
-14	AN3100-16S1S	. .	RECEPTACLE, (left wing)	1	--393
	AN3057-8A	. .	ADAPTER, (left wing)	1	--393
-15	AN3100-18-8S	. .	RECEPTACLE, (left wing)	1	--393
	AN3057-10A	. .	ADAPTER, (left wing)	1	--393
	AN3100-20-21S	*1 . .	RECEPTACLE, (right wing)	1	--393
	AN3057-12A	*1 . .	ADAPTER, (right wing)	1	4-393
-16	AN3101-14S2S	. .	RECEPTACLE	2	4-393
-17	AN3054-6	. .	NUT	2	--393
-18	AN515-8R8	. .	SCREW, (left wing)	4	--393
-19	AN936A8	. .	WASHER, (left wing)	2	4-393
-20	159-54155	. .	BRACKET, WCS passing light attaching (left wing)	1	--393
-21	144-5-2-6	. .	GASKET, Taxi light (left wing)	2	--393
-22	AN3144-4505	. .	LAMP, (left wing)	1	--393
-23	AN3101-14S2S	. .	RECEPTACLE, (bomb cannister)	1	--393
-24	AN3107-14S2S	. .	PLUG	1	--393
	AN3057-6A	. .	ADAPTER	1	--393
-25	159-63011	. .	COLLAR, Bomb rack electrical disconnect plug	1	--393
-26	AN3106-16S1S	. .	PLUG, (gun)	1	--393
	AN3057-8A	. .	ADAPTER	1	--393
-27	AN515-4R8	. .	SCREW	4	--393
-28	A6974-18-41	. .	RETAINER RING, (Tinnerman)	1	--393
-29	AN3100-18-1S	. .	RECEPTACLE	1	--393
	AN3057-10A	. .	ADAPTER	1	--393
-30	AN515-4R6	. .	SCREW, (left wing)	6	--393
	AN515-4R6	. .	SCREW, (right wing)	4	--393
-31	AN365-440	. .	NUT, (left wing)	6	4-393
	AN365-440	. .	NUT, (right wing)	4	--393
-32	MAS45-6-6	. .	PANEL ASSEMBLY, Electrical connector (left wing)	2	4-393
	MAS45-6-7	. .	PANEL ASSEMBLY, Electrical connector (right wing)	1	--393
-33	MAS45-6-6	. .	PANEL ASSEMBLY, Electrical connector	1	4-393
-34	AN340-6	. .	NUT, (left wing)	18	--393
	AN340-6	. .	NUT, (right wing)	13	4-393
-35	AN960-6	. .	WASHER, (left wing)	18	--393
	AN960-6	. .	WASHER, (right wing)	13	4-393
-36	AN936A6	. .	WASHER, (left wing)	18	--393
	AN936A6	. .	WASHER, (right wing)	13	--393
-37	21675-2.500-1	. .	CLAMP, 3/16 T-Bolt coded lug (Marman Products)	1	--393
-38	AN365-1032	. .	NUT	2	4-393
-39	AN960D10	. .	WASHER	2	--393
-40	AN520-10R12	. .	SCREW	2	4-393
-41	159-54368	. .	INSULATOR, Elec fuel pump resistor	1	4-393
-42	159-54370	. .	RESISTOR ASSEMBLY, Elec fuel pump	1	4-393
-43	29942	. . .	RESISTOR (Ohmite)	1	4-393
-44	102-0	. .	PLUG, Electrical connector (left wing) (Burton Electrical Engineering Co.)	1	4-393
-45	AN3106-22-14P	. .	PLUG	1	4-393
	AN3057-12A	. .	ADAPTER	1	4-393
-46	AN3101-24-7P	. .	RECEPTACLE	1	4-393
	AN3057-16A	. .	ADAPTER	1	4-393
-47	AN3106-20-21P	*1 . .	PLUG, (right wing)	1	4-393
	AN3057-12A	*1 . .	ADAPTER, (right wing)	1	--393
-48	AN3106-24-7P	. .	PLUG, (left wing)	1	4-393
	AN3057-16A	. .	ADAPTER, (left wing)	1	4-393
	159-54038-1	.	ELEC EQUIP INSTL, Wing tip (see fig. 7 for next assembly)	NP	4-393
	159-54038-2	.	ELEC EQUIP INSTL, Wing tip (see fig. 7 for next assembly)	NP	--393
-49	AN3033-7	. .	LIGHT ASSY, Wing position wing tip LH (red) (GFAE) (C.M.Hall No. A375-1 may be substituted)	1	--249
	AN3033-7	. .	LIGHT ASSY, Wing position wing tip LH (red)	1	250-393
	AN3033-8	. .	LIGHT ASSY, Wing position wing tip RH (green) (GFAE) (C.M.Hall No. A375-2 may be substituted)	1	4-269
	AN3033-8	. .	LIGHT ASSY, Wing position wing tip RH (green)	1	269-393

*1 Refer to T.O. 01-60FG-37

WING ELECTRICAL (Cont)

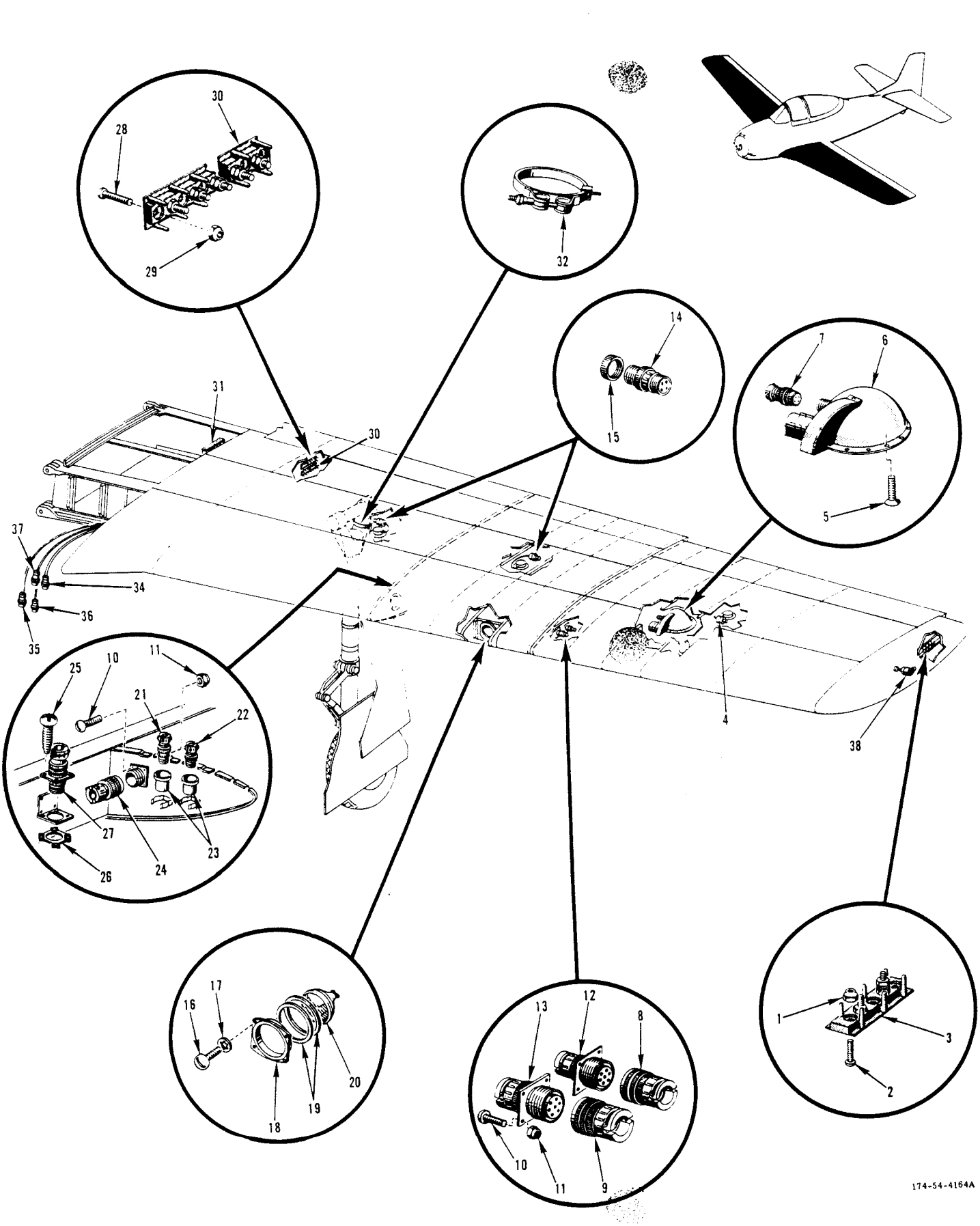


FIGURE 41 - WING ELECTRICAL EQUIPMENT

WING ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
41		WING ELECTRICAL EQUIPMENT		
	174-54014-1	. ELEC EQUIP. INSTL, Outbd wing LH (see fig. 3 for next assy) .	NP	394-
	174-54014-2	. ELEC EQUIP. INSTL, Outbd wing RH (see fig. 3 for next assy) .	NP	394-
-1	AN365-440	. . NUT	2	394-
-2	AN515-4R6	. . SCREW	2	394-
-3	AN3436-2-2	. . TERMINAL BLOCK ASSEMBLY, (left wing)	1	394-
	AN3436-2-1	. . TERMINAL BLOCK ASSEMBLY, (right wing)	1	394-
-4	AN3106-14S2S	. . PLUG	1	394-
	AN3054-8	. . NUT	1	394-
-5	AN507-832R8	. . SCREW	11	394-
	A3266	. . WASHER, Tinnerman	11	394-
-6	2304-B	. . LIGHT ASSY, Elec retractable landing, Grimes AN3095-7) .	1	394-
-7	AN3106-18-5S	. . PLUG	1	394-
	AN3057-10A	. . ADAPTER	1	394-
-8	AN3106-16S1P	. . PLUG, (left wing)	1	394-
	AN3057-8A	. . ADAPTER, (left wing)	1	394-
-9	AN3106-16-8P	. . PLUG, (left wing)	1	394-
	AN3057-10A	. . ADAPTER, (left wing).	1	394-
	AN3106-20-16P	. . PLUG, (right wing)	1	394-
	AN3057-12A	. . ADAPTER, (right wing)	1	394-
	174-54013-1	. ELEC EQUIP INSTL, Inner wing LH (see fig. 14 for next assy). .	NP	394-
	174-54013-2	. ELEC EQUIP INSTL, Inner wing RH (see fig. 14 for next assy). .	NP	394-
-10	AN515-R8	. . SCREW, (left wing)	12	394-
	AN515-R8	. . SCREW, (right wing)	6	394-
-11	AN365-440	. . NUT, (left wing)	6	394-
	AN365-440	. . NUT, (right wing)	6	394-
-12	AN3100-16S1S	. . RECEPTACLE, (left wing)	1	394-
	AN3057-8A	. . ADAPTER, (left wing)	1	394-
-13	AN3100-18-8S	. . RECEPTACLE, (left wing)	1	394-
	AN3057-10A	. . ADAPTER, (left wing)	1	394-
	AN3100-20-16S	. . RECEPTACLE, (right wing)	1	394-
	AN3057-12A	. . ADAPTER, (right wing)	1	394-
-14	AN3106-14-S2S	. . PLUG	2	394-
-15	AN3054-8	. . NUT	2	394-
-16	AN515-8R8	. . SCREW, (left wing).	2	394-
-17	AN960A8	. . WASHER, (left wing)	2	394-
-18	159-54155	. . BRACKET, (left wing).	1	394-
-19	144-54246	. . GASKET, (left wing)	1	394-
-20	AN3114-R-505	. . LAMP, (left wing)	1	394-
-21	AN3101-14-S2S	. . RECEPTACLE, (bomb jannister).	1	394-
-22	AN3107-14-S2S	. . PLUG	1	394-
	AN3057-6A	. . ADAPTER	1	394-
-23	159-63011	. . COLLAR, Bomb rack electrical disconnect plug	1	394-
-24	AN3106-16S1S	. . PLUG, (gun)	1	394-
	AN3057-8A	. . ADAPTER	1	394-
-25	AN520-R8	. . SCREW	1	394-
-26	A6974-16-1	. . RETAINER RING (Tinnerman)	1	394-
-27	AN3100-18-1S	. . RECEPTACLE	1	394-
	AN3057-10A	. . ADAPTER	1	394-
-28	AN515-R6	. . SCREW, (left wing).	6	394-
	AN515-R6	. . SCREW, (right wing)	6	394-
-29	AN365-440	. . NUT, (left wing)	6	394-
	AN365-440	. . NUT, (right wing)	6	394-
-30	AN3436-2-6	. . TERMINAL BLOCK ASSY, (left wing)	2	394-
	AN3436-2-7	. . TERMINAL BLOCK ASSY, (right wing)	1	394-
-31	AN3436-2-8	. . TERMINAL BLOCK ASSY	1	394-
-32	21075-2.500-1	. . CLAMP, 3/16 T-Bolt coded lug (Marman Products).	2	394-
-33	Deleted			
-34	AN3106-22-1-P	. . PLUG, (armament)	1	394-
	AN3057-12A	. . ADAPTER	1	394-
-35	AN3101-20-16P	. . RECEPTACLE, (misc) (left)	1	394-
	AN3057-12A	. . ADAPTER, (left)	1	394-
	AN3106-20-16P	. . PLUG, (fuel quantity and outer wing) (right)	1	394-
	AN3057-12A	. . ADAPTER	1	394-
-36	AN3101-16S1P	. . RECEPTACLE, (remote compass transmitter) (left wing). . . .	1	394-
	AN3057-8A	. . ADAPTER, (left wing).	1	394-
-37	AN3106-20-29P	. . PLUG, (wheel well) (left wing).	1	394-
	AN3057-12A	. . ADAPTER, (left wing)	1	394-
	AN3106-18-1P	. . PLUG, (wheel well) (right).	1	394-
	AN3057-10A	. . ADAPTER	1	394-
	159-54038-1	. ELEC EQUIP INSTL, Wing tip (see fig. 9 for next assembly). . .	NP	394-
	159-54038-2	. ELEC EQUIP INSTL, Wing tip (see fig. 9 for next assembly). . .	NP	394-
-38	AN3033-7	. . LIGHT ASSEMBLY, Wing position wing tip LH (red)	1	394-
	AN3033-8	. . LIGHT ASSEMBLY, Wing position wing tip RH (green)	1	394-
		(Grimes NO. 42138G2- Lamp with AN3042-- lens.)		

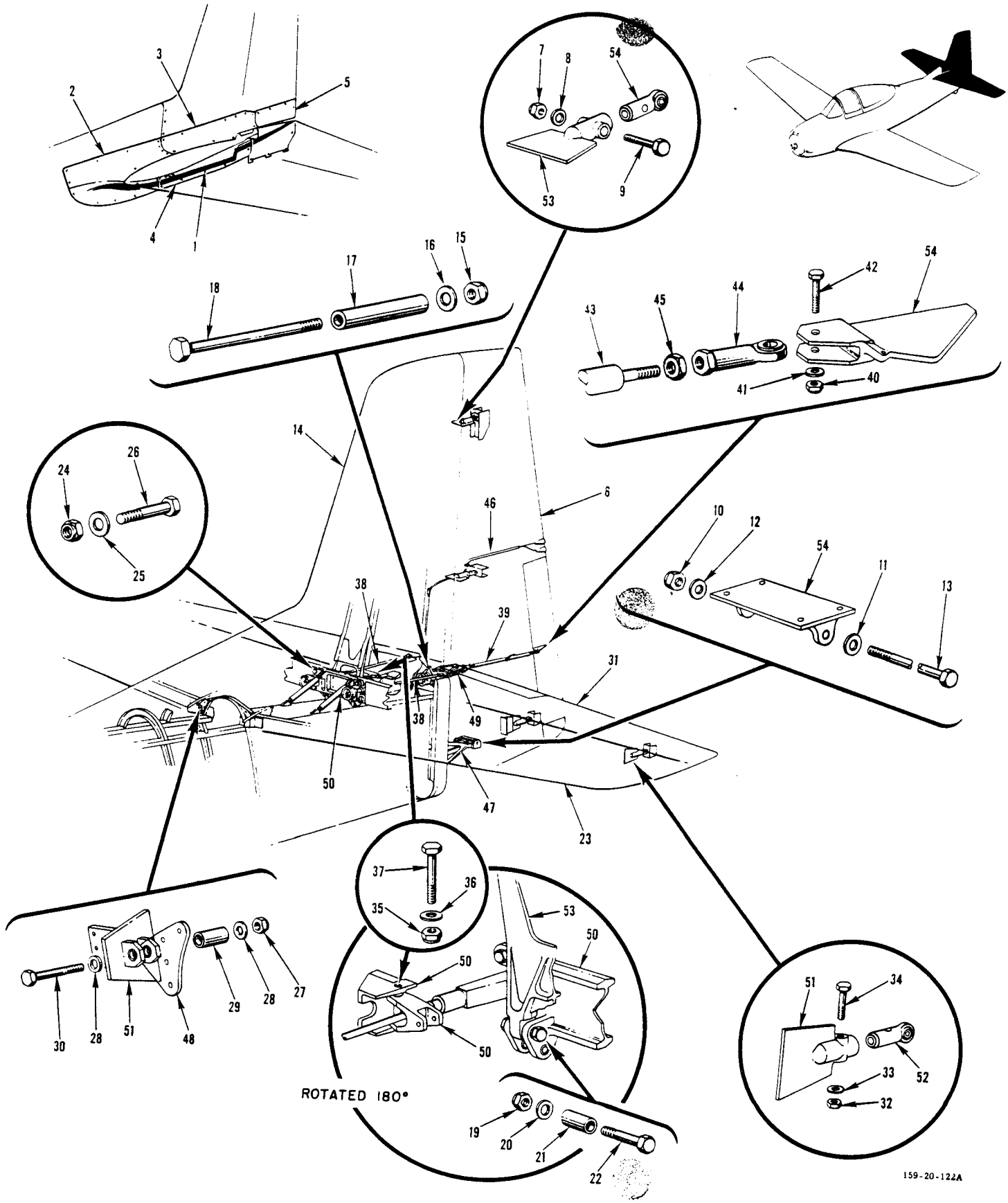
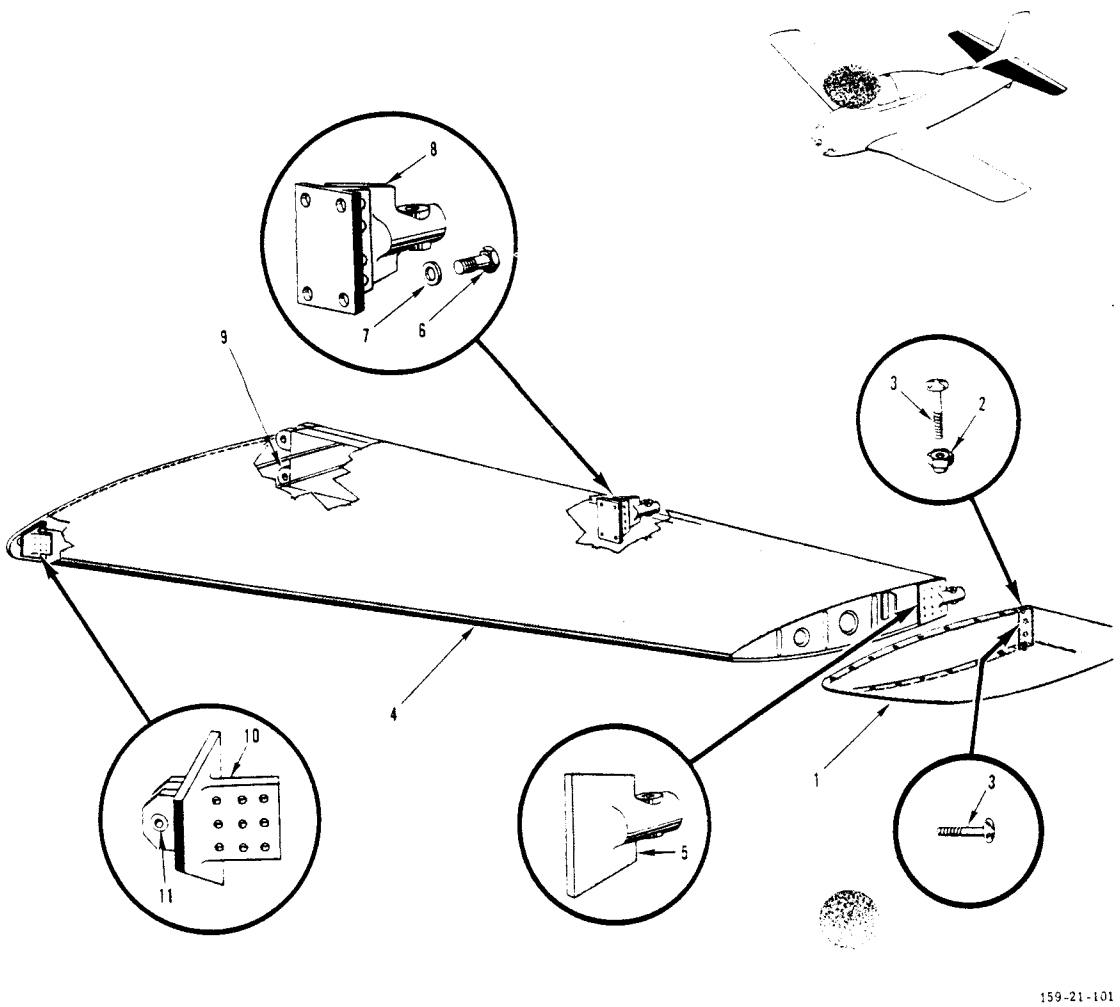


FIGURE 42 - COMPLETE EMPENNAGE

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
42	159-20001		EMPENNAGE INSTL, Complete (see figure 55 for next assembly)	NP	
-1	SP1561-832-9	.	SCREW ASSEMBLY, (Shakeproof)	88	
-2	159-25001-1	.	FILLET ASSY, Horizontal stabilizer to fuselage nose LH	1	
	159-25001-2	.	FILLET ASSY, Horizontal stabilizer to fuselage nose RH	1	
	159-25001-2	.	FILLET ASSY, Horizontal stabilizer to vert stab. upper LH	1	
-3	159-25002	.	FILLET ASSY, Horizontal stabilizer to vert stab. upper RH	1	
	159-25007	.	FILLET ASSY, Horizontal stabilizer to fuselage lower LH	1	
-4	159-25003	.	FILLET ASSY, Horizontal stabilizer to fuselage lower RH	1	
	159-25008	.	FILLET ASSY, Horizontal stabilizer to vert stab. aft LH	1	
-5	159-25004	.	FILLET ASSY, Horizontal stabilizer to vert stab. aft RH	1	
	159-25009	.	FILLET ASSY, Horizontal stabilizer to vert stab. aft RH	1	
-6	159-24001	.	RUDDER ASSY, Complete (see fig. 46 for detail breakdown)	1	
	ATTACHING PARTS				
-7	AN365-428	.	NUT	2	
-8	AN960-416	.	WASHER	2	
-9	AN4-20A	.	BOLT	2	
-10	AN365-428	.	NUT	1	
-11	AN960-416L	.	WASHER	1	
-12	AN960-416	.	WASHER	1	
-13	AN4-35A	.	BOLT	1	
	---*---				
-14	159-23001	.	STABILIZER ASSY, Vertical (see fig. 44 for detail breakdown)	1	
	ATTACHING PARTS				
-15	AN365-428	.	NUT	1	
-16	AN960-416	.	WASHER	1	
-17	-B21S4-101	.	BUSHING, Spacer (North American)	1	
-18	AN4-14A	.	BOLT	1	
-19	AN365-620	.	NUT	1	
	AN365-624	.	NUT	2	
-20	AN960-816	.	WASHER	2	
	AN960-616	.	WASHER	1	
-21	-B21S6-122	.	BUSHING, Spacer (North American) (RH side only)	1	
-22	AN6-23A	.	BOLT	1	
	AN6-23A	.	BOLT		
	---*---				
-23	159-21001	.	STABILIZER ASSY, Hor (see fig. 45 for detail breakdown)	2	
	ATTACHING PARTS				
-24	AN365-1018	.	NUT	4	
-25	AN960-1016	.	WASHER	4	
-26	AN10-25A	.	BOLT	2	
-27	AN365-428	*1 .	NUT	2	
	AN365-428	*2 .	NUT	4	
-28	AN960D416	*1 .	WASHER	12	
	2W1-24-24-4C	*2 .	WASHER, Plain (North American)	4	
	AN960-4D	*2 .	WASHER	2	
-29	-B21S4-104	*1 .	BUSHING, Spacer (North American)	2	
	-B21S4-100	*2 .	BUSHING, Spacer (North American)	2	
-30	AN--15A	*1 .	BOLT	2	
	AN--14A	*2 .	BOLT		
	---*---				
-31	159-22001	.	ELEVATOR ASSY, Complete (see fig. 46 for detail breakdown)	2	
	ATTACHING PARTS				
-32	AN365-428	.	NUT	4	
-33	AN960-416	.	WASHER	4	
-34	AN--20A	.	BOLT	4	
	---*---				
-35	AN365-524	.	NUT	2	
-36	AN960-516	.	WASHER	2	
-37	AN6-33A	.	BOLT	2	
-38	159-24502-3	.	ROD ASSEMBLY, Rudder and elevator trim tab push	1	
-39	159-24502-5	.	ROD ASSEMBLY, Rudder and elevator trim tab push	1	
	ATTACHING PARTS				
--0	AN365-1032	.	NUT	6	
--1	AN960-10	.	WASHER	10	
--2	AN3-11A	.	BOLT	6	
	---*---				
--3	159-24502-11	. .	ROD ASSEMBLY, Rudder and elevator trim tab push riveted (used on 159-24-502-5)	1	
	159-24502-13	. .	ROD ASSEMBLY, Rudder and elevator trim tab push riveted (used on 159-24502-3)	1	
--4	REB3N2	. .	ROD END, (Fafnir	1	
--5	AN316-5R	. .	NUT	1	
--6	159-24026		ELECTRICAL EQUIPMENT INSTALLATION, Rudder (see fig. 46)	Ref	
--7	159-23320		FITTING ASSEMBLY, Vertical stabilizer station 9 rudder hinge (see figure 36)	Ref	
--8	159-21409		SUPPORT ASSY, Hor stab. front beam to fuselage attaching (see figure 36)	Ref	
--9	159-24531		RUDDER TRIM TAB MECHANISM INSTL (see fig. 48)	Ref	
--0	159-22531		MECHANISM INSTL, Elevator torque tube and trim tab (see fig. 47)	Ref	
--1	For horizontal stabilizer attaching fittings see figure 43			Ref	
--2	For elevator attaching fittings see figure -5			Ref	
--3	For vertical stabilizer attaching fittings see figure 44			Ref	
--4	For rudder attaching fittings see figure -6			Ref	

*1 Parts marked thus used to attach 159-21-01-10, 159-21409-7 and 159-21409-8.
*2 Parts marked thus used to attach 159-21-01, 159-21409-1 and 159-21409-2.



159-21-101

FIGURE 43 - HORIZONTAL STABILIZER ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
43	159-21001	STABILIZER ASSY, Horizontal (See fig. 42 for next assy)	Ref	
-1	159-21311	. TIP ASSEMBLY, Horizontal stabilizer	1	
		ATTACHING PARTS	2	
-2	AN365-1032	. NUT	20	
-3	NAS221-8	. SCREW, Brazier head Phillips recess alloy steel 10-32		

-4	159-21002	. FRAME ASSEMBLY, Horizontal stabilizer	1	
	159-21083	. . RIB ASSEMBLY, Horizontal stabilizer station 83.750	1	
-5	159-23411-9	. . . FITTING, Rudder and elevator hinge	1	
-6	AN4-11A	. . BOLT	4	
-7	AN960D416L	. . WASHER	4	
-8	159-21406	. . FITTING ASSEMBLY, Horizontal stab. sta 47.75 elev hinge	1	
	159-21302	. . BEAM ASSEMBLY, Horizontal stabilizer rear	1	
	159-21410-1	. . . CAP ASSEMBLY, Horizontal stabilizer rear beam LH	1	
	159-21410-2	. . . CAP ASSEMBLY, Horizontal stabilizer rear beam RH	1	
-9	4B19S10-022	. . . . BUSHING, Press fit plain (North American)	1	
	159-21301	. . BEAM ASSEMBLY, Horizontal stabilizer front	1	
-10	159-21401-10	. . . FITTING ASSEMBLY, Horizontal stabilizer front beam to fuselage attaching (supersedes 159-21401)	1	
-11	4B20S6-008	. . . . BUSHING, Press fit flanged (North American)	2	

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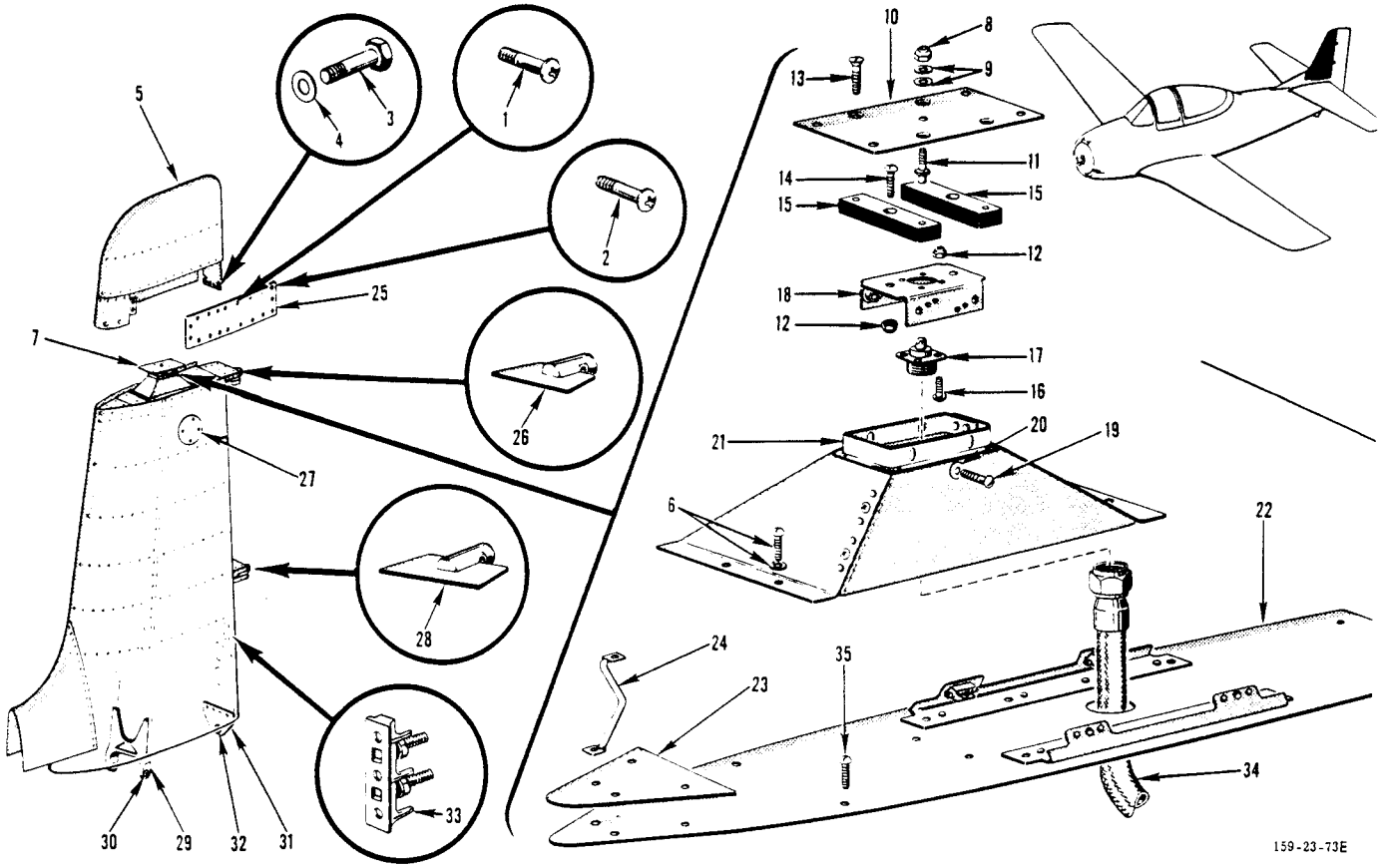

FIGURE 44 - VERTICAL STABILIZER ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
44	159-23001	STABILIZER ASSY, Vertical (see figure -2 for next assembly)	Ref	
-1	NAS221-9	. SCREW, Brazier head Phillips recess alloy steel 10-32	29	
-2	NAS221-10	. SCREW, Brazier head Phillips recess alloy steel 10-32	4	
-3	AN3--A	. BOLT	4	
-4	AN960D10	. WASHER	4	
-5	159-71024	. TIP ASSEMBLY, Vertical stabilizer radio antenna	1	
-6	AN515-8R8	. SCREW	4	
	AN960PD8L	. WASHER	4	
-7	159-71021	. PYRAMID ASSEMBLY, VHF- UHF Radio antenna complete	1	
-8	AN365--440	. . NUT	1	
-9	AN960--4	. . WASHER	2	
-10	159-71018	. . PLATE, VHF-UHF Radio antenna	1	
-11	159-71013	. . PIN, VHF-UHF Radio antenna	1	
-12	AN365--440	. . NUT	10	
-13	AN507--440R11	. . SCREW	4	
-14	AN515--4R7	. . SCREW	2	
-15	159-71016	. . INSULATOR, VHF-UHF Radio antenna	2	
-16	AN515--4R5	. . SCREW	4	
-17	UG58/U	. . RECEPTACLE, Type N (Industrial Products)	1	
-18	159-71015	. . CHANNEL ASSEMBLY, VHF-UHF Radio antenna	1	
-19	AN515-6R7	. . SCREW	4	
-20	AN960PD6L	. . WASHER	4	
-21	159-71014	. . PYRAMID ASSEMBLY, VHF-UHF Radio antenna	1	
-22	159-71017	. RIB ASSEMBLY, VHF-UHF Radio antenna	1	
-23	159-71020	. PLATE, VHF-UHF antenna shunt mounting	1	
-24	159-71019	. SHUNT, VHF-UHF Radio antenna	2	
-25	159-23324	. DOOR ASSEMBLY, Vertical stabilizer tip	1	
	159-23068	. RIB ASSEMBLY, Vertical stabilizer station 68.844 tip	1	
-26	159-23411-5	. . FITTING, Rudder and elevator hinge	1	
-27	159-23319	. DOOR ASSEMBLY, Vertical stabilizer radio antenna access	1	
	159-23033	. RIB ASSEMBLY, Vertical stabilizer station 32.094	1	
-28	159-23411-3	. . FITTING, Rudder and elevator hinge	1	
	159-23301	. BEAM ASSEMBLY, Vertical stabilizer front	1	
-29	159-23402-5	. . FITTING ASSY, Vertical stabilizer front beam attaching	1	
-30	4B1988-024	. . . BUSHING, Press fit plain (North American)	2	
	159-23302	. BEAM ASSEMBLY, Vertical stabilizer rear lower	1	
-31	159-23306	. . PLATE ASSY, Vertical stab. rear beam to fus sttaching	1	
-32	4B18-6-125	. . . BUSHING, Shoulder (North American)	1	
-33	AN3436-2-2	. . PANEL ASSEMBLY	1	
-34	159-71023	. ANTENNA CABLE INSTL, Radio VHF-UHF vertical stabilizer (see figure 174, 175 & 181 for detail breakdown)	NP	
-35	AN515-6R7	. SCREW	8	

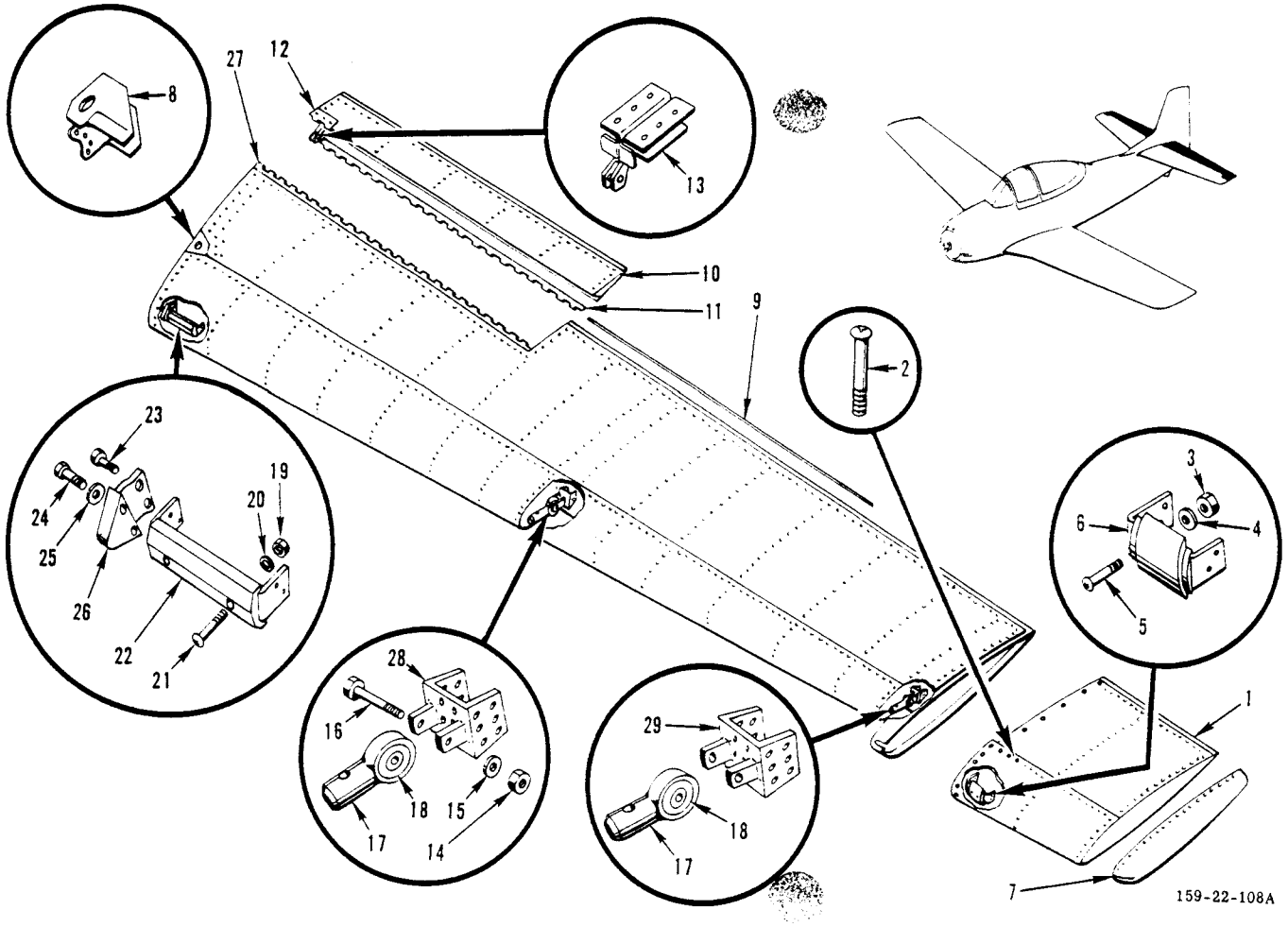

FIGURE -5 - ELEVATOR ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
-5	159-22001		ELEVATOR ASSY, Complete (see fig. -2 for next assembly)	Ref	
-1	159-22311		. TIP ASSEMBLY, Elevator	1	
	ATTACHING PARTS				
-2	NAS221-9		. SCREW, Brazier head Phillips recess alloy steel 10-32	28	
	---*---				
-3	AN365-1032		. . NUT	2	
-4	2W1-12-32-63		. . WASHER, Plain (North American)	2	
-5	NAS221-29		. . SCREW, Brazier head Phillips recess alloy steel 10-32	2	
-6	159-22416		. . WEIGHT ASSEMBLY, Elevator station 84 to 89	2	
-7	159-22305		. . TIP, Elevator	1	
	159-22007		. RIB ASSEMBLY, Elevator station 8.375 canted	1	
-8	159-22405		. . FITTING, Elevator torque tube attaching	1	
-9	159-22001-21		. PIN, Elevator trim tab hinge	1	
-10	159-22501		. TAB ASSEMBLY, Elevator trim	1	
-11	159-22501-9		. . HINGE, Elevator trim tab	1	
-12	159-22511		. . HINGE, Elevator trim tab	1	
-13	159-22506		. . HORN ASSEMBLY, Elevator trim tab	1	
-14	AN365--28		. NUT	2	
-15	AN960--16		. WASHER	4	
-16	AN4-14A		. BOLT	2	
-17	159-14025		. FITTING ASSEMBLY, Hinge bearing	2	
-18	AN207D4		. . BEARING	2	
-19	AN365-1032		. NUT	1	
-20	2W1-12-24-63		. WASHER, Plain (North American)	2	
-21	NAS221-22		. SCREW, Brazier head Phillips recess alloy steel 10-32	2	
-22	159-22414		. WEIGHT ASSEMBLY, elevator station 7 to station 13	2	
-23	AN3-3A		. BOLT	1	
-24	AN3-10A		. BOLT	2	
-25	2W1-12-24-63		. WASHER, Plain (North American)	2	
-26	159-22415		. WEIGHT ASSEMBLY, Elevator station 7	2	
	159-22302		. BEAM ASSEMBLY, Elevator rear	1	
-27	159-22302-5		. . HINGE, Elevator rear beam (altered from NAS40-5A-LL30.210).	1	
	159-22306		. RIB ASSEMBLY, Elevator hinge support station 47.750	1	
-28	159-22403		. . SUPPORT, Elevator hinge station 47.750	1	
	159-22307		. RIB ASSEMBLY, Elevator hinge support station 83.656	1	
-29	159-22404		. . SUPPORT, Elevator hinge station 84.656	1	

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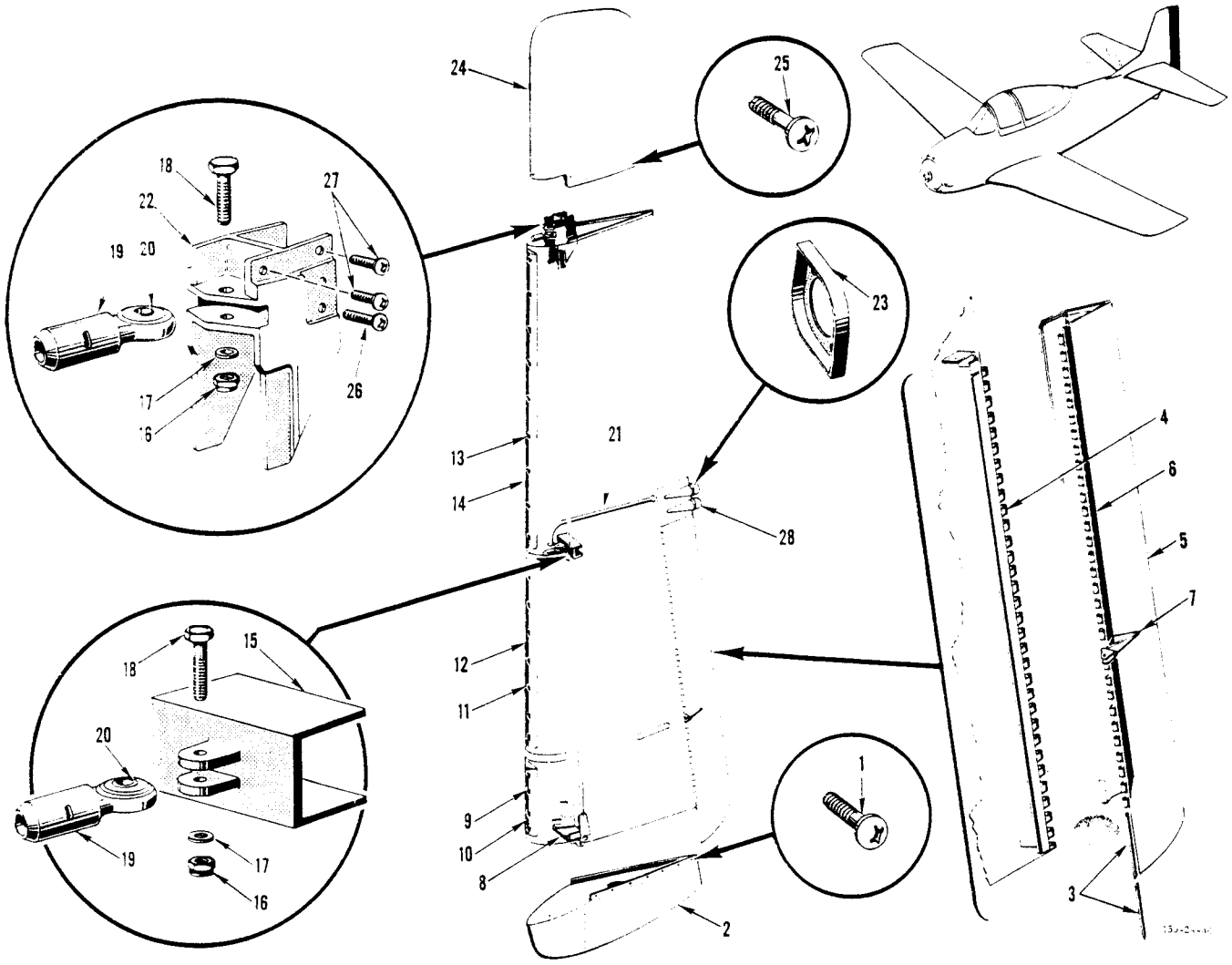


FIGURE -6 - RUDDER ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
46	159-24001	RUDDER ASSY, Complete (see fig. -2 for next assembly)	Ref	
-1	NAS211-6	. SCREW, Brazier head Phillips recess alloy steel 10-32	14	
-2	159-24302	. BOOT ASSEMBLY, Rudder	1	
-3	159-24001-23	. PIN, Rudder tab hinge (altered from AN253-2-4162)	2	
	159-24301	. BEAM ASSEMBLY, Rudder aft	1	
-4	159-24301-5	. . HINGE, Half	2	
-5	159-24501	. TAB ASSEMBLY, Rudder trim	1	
-6	159-24501-9	. . HINGE, Half	2	
-7	159-24503	. . FITTING, Rudder trim tab horn	1	
	159-24107	. RIB ASSEMBLY, Rudder station 7 3/8 canted	1	
-8	159-24401	. . SUPPORT, Rudder station 9	1	
-9	NAS221-12	. SCREW, Brazier head Phillips recess alloy steel 10-32	4	
-10	159-24409	. WEIGHT ASSEMBLY, Rudder station 6 1/2 to 8 balance	1	
-11	NAS221-13	. SCREW, Brazier head Phillips recess alloy steel 10-32	4	
-12	159-24410	. WEIGHT ASSEMBLY, Rudder station 11 to 31 3/16 balance	1	
-13	NAS221-16	. SCREW, Brazier head Phillips recess alloy steel 10-32	4	
-14	159-24411	. WEIGHT ASSEMBLY, Rudder station 33 3/16 to 67 3/4 balance	1	
	159-24322	. RIB ASSEMBLY, Rudder hinge station 32.1875	1	
-15	159-24402	. . SUPPORT, Rudder hinge station 32.187	1	
-16	AN365-428	. NUT	2	
-17	AN960-416	. WASHER	2	
-18	AN-3-14A	. BOLT	2	
-19	159-24025	. FITTING ASSEMBLY, Hinge bearing	1	
-20	AN210D4	. . BEARING	2	
-21	159-24208	. TUBE, Rudder tail light wire support	1	
-22	159-24403	. SUPPORT, Rudder hinge station 68.75	1	
-23	B3-67	. BRACKET ASSEMBLY, Tail light mounting (Grimes)	1	
-24	159-24305	. TIP ASSEMBLY, Rudder (plastic)	1	
	ATTACHING PARTS			
-25	NAS221-9	. SCREW, Brazier head Phillips recess alloy steel 10-32	6	
-26	NAS221-11	. SCREW, Brazier head Phillips recess alloy steel 10-32	4	
-27	NAS221-12	. SCREW, Brazier head Phillips recess alloy steel 10-32	4	
-28	159-24026	. ELEC EQUIP. INSTL, Rudder (see fig. 157 for breakdown)	NP	

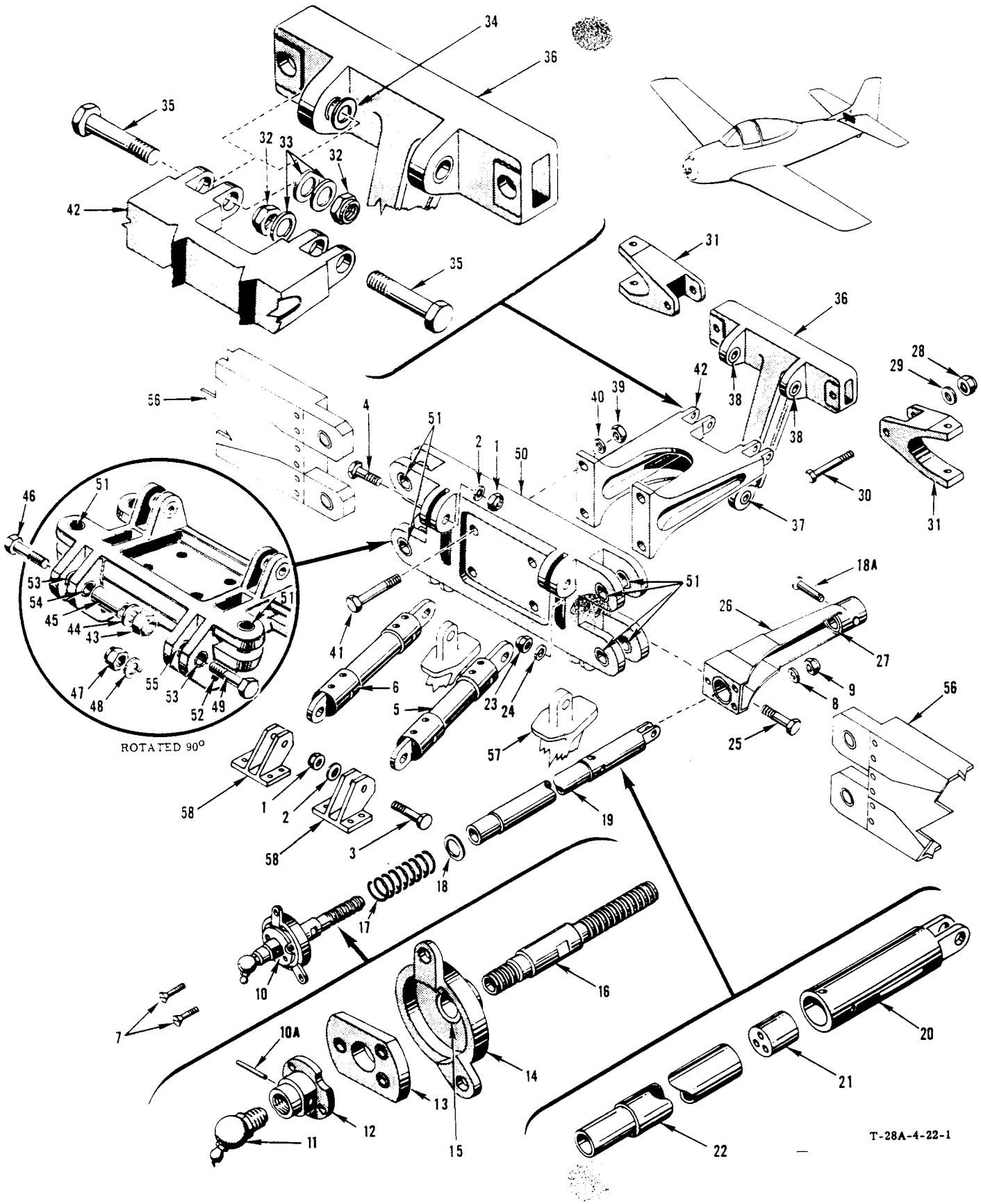


FIGURE 47 - ELEVATOR TORQUE TUBE AND TRIM TAB MECHANISM

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
47	159-22531	MECHANISM INSTALLATION, Elevator torque tube and trim tab (see figure 55 for next assembly)	NP	
-1	AN365-428	. NUT	4	
-2	AN960-416	. WASHER	4	
-3	AN4-10A	. BOLT	2	
-4	AN4-11A	. BOLT	2	
-5	159-21411-1	. STRUT ASSEMBLY, Fuselage to horizontal stabilizer LH	1	
-6	159-21411-2	. STRUT ASSEMBLY, Fuselage to horizontal stabilizer RH	1	
	159-21412	. . STRUT END, Fuselage to horizontal stabilizer aft	1	
	159-21413	. . STRUT END, Fuselage to horizontal stabilizer forward	1	
-7	AN509-10-14	. SCREW	6	
-8	AN960-10	. WASHER	4	
-9	AN365-1032	. NUT	4	
-10	159-22512-3	. SCREW ASSY, Elevator trim tab actuator (left side)	1	
	159-22512-5	. SCREW ASSY, Elevator trim tab actuator (right side)	1	
-10A	159-22512-7	. . PIN, Elevator trim tab actuator screw	1	
-11	MAS2-201	. . FITTING, Lubrication	1	
-12	159-24512	. . ADAPTER, Elevator and rudder trim tab operating	1	
-13	159-22513	. . RETAINER, Elevator trim tab actuator bearing	1	
-14	159-22509-1	. . BEARING ASSEMBLY, Elevator trim tab drum LH (used on 159-22512-3 only)	1	
	159-22509-2	. . BEARING ASSEMBLY, Elevator trim tab drum RH (used on 159-22512-5 only)	1	
-15	AN201K6A	. . . BEARING	1	
-16	159-24511-3	. . SCREW, Elevator and rudder trim tab operating (used on 159-22512-3 only)	1	
	159-24511-5	. . SCREW, Elevator and rudder trim tab operating (used on 159-22512-5 only)	1	
-17	13--52819	. SPRING, Trim tab push rod	2	
-18	2W1-45-36-62	. WASHER, Plain (North American)	2	
-18A	AN3[illegible]-2	. PIN	2	
-19	159-24504-3	. ROD ASSY, Elev and rudder trim tab actuating (left side)	1	
	159-24504-5	. ROD ASSY, Elev and rudder trim tab actuating (right side)	1	
-20	159-24509	. . CLEVIS, Elevator and rudder trim tab operating	1	
-21	159-24520	. . PLUG, Elevator and rudder trim tab push rod	1	
-22	159-24510-3	. . NUT, Elevator and rudder trim tab operating (used on 159-24504-3 only)	1	
	159-24510-5	. . NUT, Elevator and rudder trim tab operating (used on 159-24504-5 only)	1	
-23	AN365-1032	. NUT	6	
-24	AN960-10	. WASHER	6	
-25	AN3-10A	. BOLT	6	
-26	159-22507	. FITTING ASSEMBLY, Elevator trim tab drum support	2	
-27	159-24508	. . BUSHING, Elevator and rudder trim tab drum support	1	
-28	AN365-624	. NUT	2	
-29	AN960-616	. WASHER	2	
-30	AN3-25A	. BOLT	2	
-31	159-22408	. FITTING, Elevator torque tube end	2	
-32	AN365-428	. NUT	2	
-33	AN960-416	. WASHER	3	
-34	AN960D416L	. WASHER	AR	
-35	AN4-15A	. BOLT, (left side)	1	
	AN4-16A	. BOLT, (right side)	1	
-36	159-21410	. FITTING ASSEMBLY, Elevator torque tube	1	
-37	AN200KP4	. . BEARING	1	
-38	AN207DP4	. . BEARING	2	
-39	AN365-524	. NUT	4	
-40	AN960-516	. WASHER	4	
-41	AN5-12A	. BOLT	4	
-42	159-21405	. FITTING, Horizontal stabilizer sta "0" elevator hinge	1	
-43	AN365-720	. NUT	1	
-44	AN960-716	. WASHER	1	
-45	4B21S7-125	. BUSHING, Spacer (North American)	1	
-46	AN7-23A	. BOLT	1	
-47	AN365-918	. NUT	1	
-48	AN960-916	. WASHER	1	
-49	AN9-23A	. BOLT	1	
	159-21402-5	. FITTING ASSEMBLY, Horizontal stabilizer rear beam to fuselage attaching	1	
-50	159-21402-3	. . FITTING, Horizontal stabilizer rear beam to fuselage attaching	1	
-51	4B19S10-016	. . BUSHING, Press fit plain (North American)	8	
-52	4B19S8-013	. . BUSHING, Press fit plain (North American)	4	
-53	4B19S9-013	. . BUSHING, Press fit plain (North American)	2	
-54	4B19S9-017	. . BUSHING, Press fit plain (North American)	1	
-55	4B19S9-015	. . BUSHING, Press fit plain (North American)	1	
-56	159-21302	BEAM ASSEMBLY, Horizontal stabilizer rear (fig. 43)	Ref	
-57	159-31319-5	FITTING ASSY, Fus sta 317 empennage attaching (fig. 86)	Ref	
-58	159-31640	FITTING, Fus sta 307 5/8 empennage strut attaching (fig. 86)	Ref	

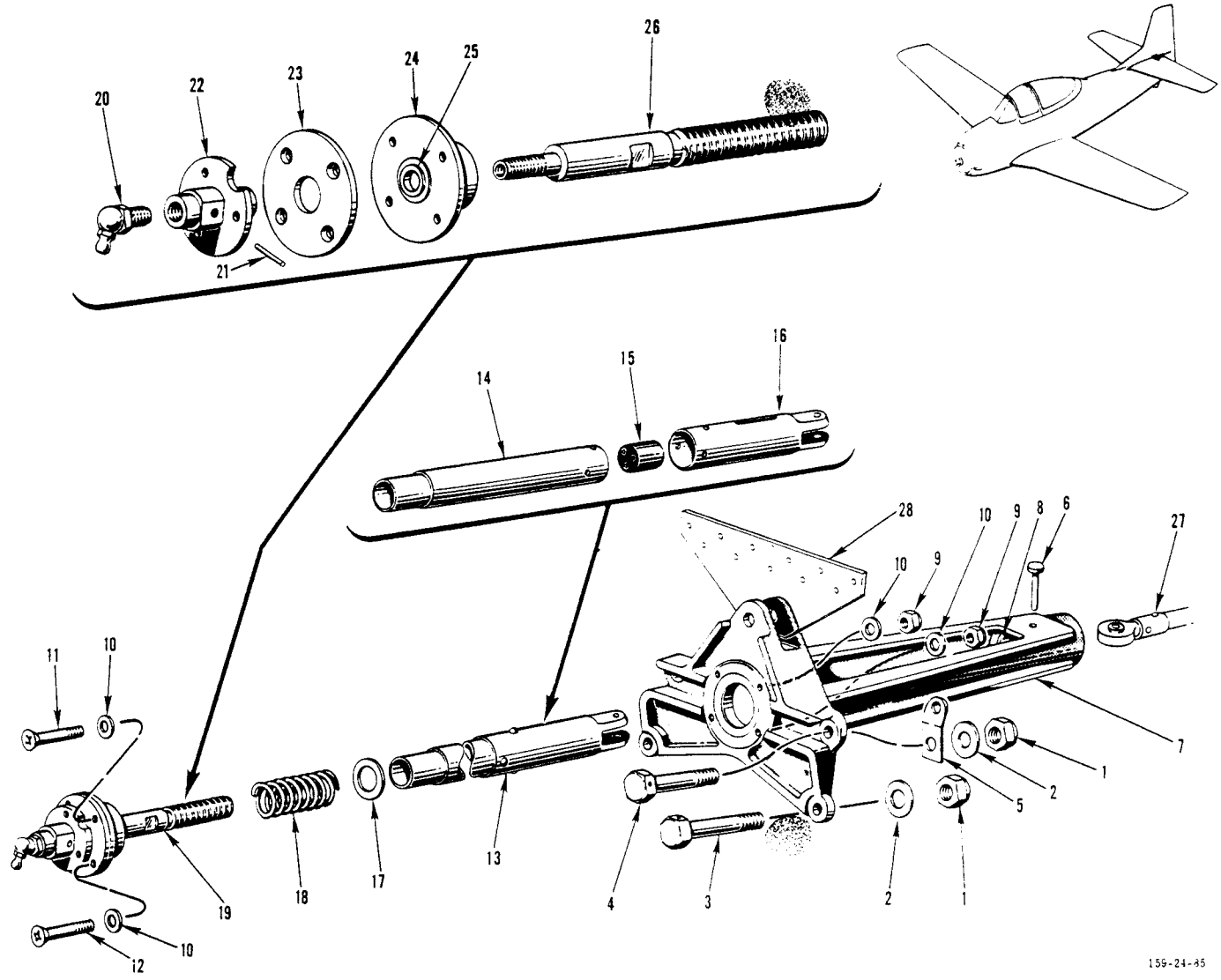
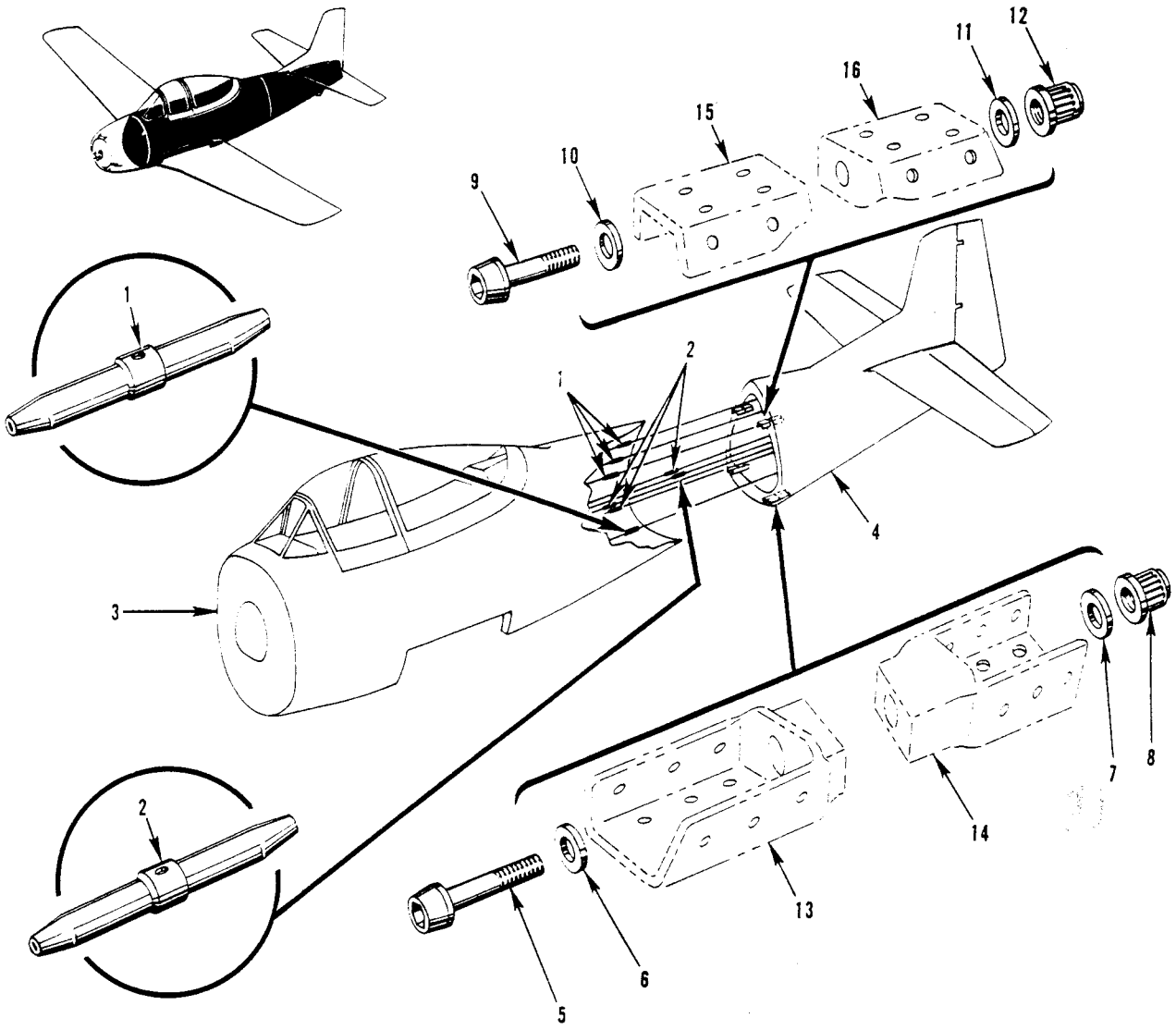


FIGURE 48 - RUDDER TRIM TAB MECHANISM

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
48	159-24531	MECHANISM INSTALLATION, Rudder trim tab (see figure 55. for next assembly)	NP	
-1	AN365--28	. NUT	4	
-2	AN960--16	. WASHER	2	
-3	AN4-10A	. BOLT, (lower)	2	
-4	AN4-7A	. BOLT, (upper)	1	
-5	159-71025	. CLIP, Radio VHF antenna cable attaching (left side only)	1	
-6	AN393--9	. PIN	1	
-7	159-24507	. FITTING ASSEMBLY, Rudder trim tab drum support	1	
-8	159-24508	. . BUSHING, Elevator and rudder trim tab drum support	4	
-9	AN365-1032	. NUT	1	
-10	AN960D10	. WASHER	2	
-11	AN509-10-20	. SCREW (upper)	1	
-12	AN509-10-19	. SCREW (lower)	1	
-13	159-24504-7	. ROD ASSEMBLY, Elevator and rudder trim tab actuating	1	
-14	159-24510-7	. . NUT, Elevator and rudder trim tab operating	1	
-15	159-24520	. . PLUG, Elevator and rudder trim tab push rod	1	
-16	159-24509	. . CLEVIS, Elevator and rudder trim tab operating	1	
-17	2W1-45-36-62	. WASHER, Plain (North American)	1	
-18	134-52819	. SPRING, Trim tab push rod	1	
-19	159-24521	. SCREW ASSEMBLY, Rudder trim tab actuator	1	
-20	NAS2-201	. . FITTING, Lubrication	1	
-21	159-24531-3	. . PIN, Adapter attaching screw	1	
-22	159-24512	. . ADAPTER, Elevator and rudder trim tab operating	1	
-23	159-24522	. . RETAINER, Rudder trim tab actuator bearing	1	
-24	159-24519	. . BEARING ASSEMBLY, Rudder trim tab actuator	1	
-25	AN201K6A	. . . BEARING	1	
-26	159-24511-3	. . SCREW, Elevator and rudder trim tab operating	1	
-27	159-24502-5	ROD ASSEMBLY, Rudder and elevator trim tab push (fig. -2)	Ref	
-28	159-23306	PLATE, (see 159-23302 vertical stabilizer rear beam) (fig. -4)	Ref	

AN 01-60FGA-4

FUSELAGE



159-31-831A

FIGURE 49 - COMPLETE FUSELAGE

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
49	159-31001	FUSELAGE INSTL, Complete (see figure 1 for next assembly)	NP	
-1	AN155-32L	. BARREL	4	
-2	AN155-8L	. BARREL	4	
-3	159-31601	. FUSELAGE ASSY, Forward section sta 49 1/2 to sta 238 7/8 . . . complete (see fig. 50 for detail breakdown)	1	
-4	159-31602	. FUSELAGE ASSY, Aft section sta 238 7/8 to sta 338 3/8 . . . . complete (see fig. 55 for detail breakdown)	1	
		ATTACHING PARTS		
-5	NAS147-30	. BOLT, Internal wrenching steel 7/16-20 (magnetic inspected). .	2	
-6	NAS143-7C	. WASHER, 125,000 to 145,000 PSI countersunk type	2	
-7	NAS143-7	. WASHER, 125,000 to 145,000 PSI plain type	2	
-8	EB670	. NUT, Cadmium plated steel (magnetic inspected) (Elastic . . . stop nut)	2	
-9	NAS146-27	. BOLT, Internal wrenching steel 3/8-24 (magnetic inspected) . .	2	
-10	NAS143-6C	. WASHER, 125,000 to 145,000 PSI countersunk type	2	
-11	NAS143-6	. WASHER, 125,000 to 145,000 PSI plain type.	2	
-12	EB664	. NUT, Cadmium plated steel (magnetic inspected)(Elastic Stop. . nut)	2	
		---*---		
-13	159-31113-3	FITTING, Fus sta 238 7/8 lower longeron splice (fig. 83)	Ref	
-14	159-31113-5	FITTING, Fus sta 238 7/8 lower longeron splice (fig. 85)	Ref	
-15	159-31114-3	FITTING, Fus sta 238 7/8 upper longeron splice (fig.83)	Ref	
-16	159-31114-5	FITTING, Fus sta 238 7/8 upper longeron splice (fig. 85)	Ref	

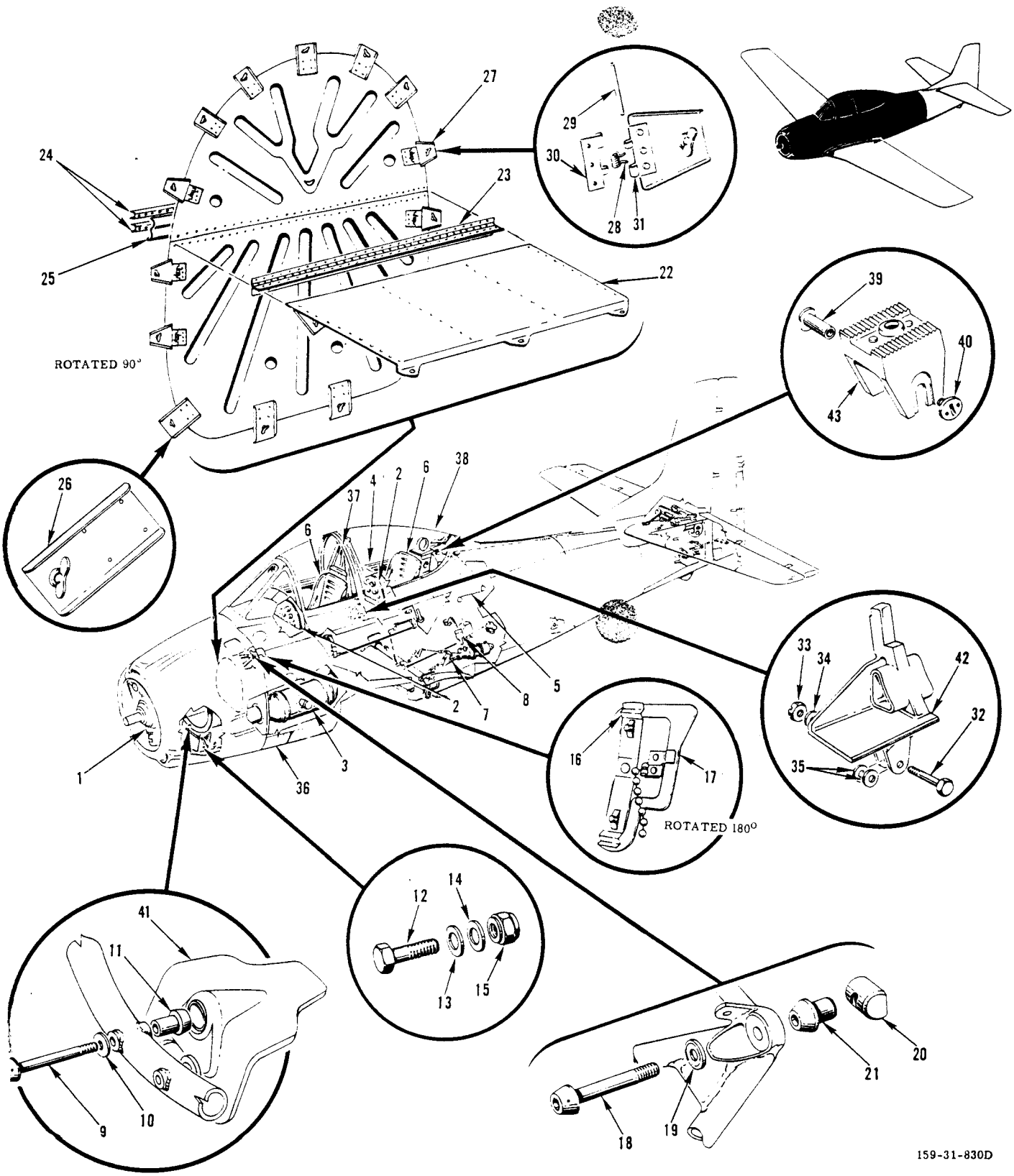


FIGURE 50 - COMPLETE FORWARD SECTION STATION 48 1/2 TO 238 7/8 FUSELAGE ASSEMBLY

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
50	159-31601	FUSELAGE ASSEMBLY, Forward section station 49 1/2 to 238 7/8 complete (see figure 49 for next assembly)	Ref	
-1	159-40040	. POWER PLANT INSTALLATION, Complete (see figure 220 for detail breakdown)	NP	
-2	159-51031	. INSTRUMENT EQUIPMENT INSTALLATION, Fuselage front (see figure 98 for detail breakdown)	NP	
-3	159-53307	. HEATER INSTL, Heat and vent sys cockpit combustion (see figure 197 for detail breakdown)	NP	
-4	159-31801	. CANOPY MECHANISM INSTL (see figure 73 for detail breakdown)	NP	
	159-40037	. ENGINE CONTROL EQUIPMENT INSTL - Eng section to fuselage section (see figure 229 for detail breakdown)	NP	
-5	159-31802	. CONTROL INSTALLATION, Canopy complete (see figure 69 for detail breakdown)	NP	
	159-53031	. FURNISHING EQUIPMENT INSTL, Fuselage (see figure 186 for detail breakdown)	NP	4-693
	174-53031	. FURNISHING EQUIPMENT INSTL, Fuselage (see figure 186A for detail breakdown)	NP	694-
-6	159-53008	. SEAT INSTL, Pilot's and co-pilot's (see figure 187 for detail breakdown)	NP	
-7	159-18100	. MECHANISM INSTL, Flap actuating (see figure 117 for detail breakdown)	NP	
-8	159-18200	. MECHANISM INSTL, Flap by-pass and unlock control (see figure 116 for detail breakdown)	NP	
	159-58019	. HYD EQUIP INSTL, Fus mating sta 49.5 to 238 7/8 (see figure 119, 120, 131, 134 and 136 for detail breakdown)	NP	
-9	NAS1-8DH71	. BOLT, Internal wrenching steel 1/2-20 (magnetic inspected)	1	
-10	NAS143-80	. WASHER, 125,000 to 145,000 PSI countersunk type	1	
-11	159-31916-3	. FITTING, Eng mount to fus lower tapered (supersedes 159-31916)	1	
-12	AN4--A	. BOLT	2	
-13	AN960D416	. WASHER	2	
-14	AN960D416	. WASHER	2	
-15	AN365--428	. NUT	2	
	159-31403-1	. COVER ASSY, Fuselage sta 49.5 firewall and upper longeron hoist fitting access LH	1	
	159-31403-2	. COVER ASSY, Fuselage sta 49.5 firewall and upper longeron hoist fitting access RH	1	
-16	A6086D1024-1	. . FASTENER (Tinnerman	1	
-17	159-31403-7	. . SEAL, Fus sta 49.5 firewall & upper longeron hoist fitting access cover	1	
-18	NAS1-6DH50	. BOLT, Internal wrenching steel 3/8-24 (magnetic inspected)	2	
-19	NAS143-60	. WASHER, 125,000 to 145,000 PSI countersunk type	2	
-20	32-1-52-064	. NUT, Barrel (Elastic Stop Nut)	2	
-21	159-31907-7	. FITTING, Eng mount to fus tapered (supersedes 159-31907-3)	2	
	159-31018	. DOOR ASSY, Firewall access	1	
-22	159-31019	. . DOOR ASSY, Fuselage floor access	1	
-23	159-31280	. . . HINGE ASSY, Fus floor and firewall access door	1	
-24	159-31024	. . STRIP, Firewall access door	2	
-25	159-31023	. . SEAL, Firewall access door	1	
-26	159-31022	. . BRACKET ASSY, Firewall access door fastener	2	
-27	159-31021	. . HINGE ASSY, Firewall access door fastener	2	
	159-31021-11	. . . HINGE ASSY, Firewall access door fastener	1	
-28	159-311119	. . . . SPRING, Fus firewall access door fastener hinge	1	
-29	AN253-3-169	. . . . PIN	1	
-30	159-31021-7	. . . . HINGE, Firewall access door fastener half	1	
-31	159-31021-9	. . . . HINGE, Firewall access door fastener half	1	
-32	AN24-20	. BOLT	6	
-33	AN320-4	. NUT	6	
-34	AN960D416	. WASHER	6	
-35	2W1017-32-14	. WASHER, Plain (North American)	12	
-36	159-31101	. FRAME ASSY, Fuselage sta 49.5 to 238 7/8 complete (see figure 51 for detail breakdown)	1	
-37	159-31811	. CANOPY ASSY, Cockpit enclosure front complete (see figure 70 for detail breakdown)	1	4-393
	159-31811-50	. CANOPY ASSY, Cockpit enclosure front complete (see figure 70 for detail breakdown)	1	394-693
	174-31811	. CANOPY ASSY, Cockpit enclosure front complete (see figure 71 for detail breakdown)	1	694-
-38	159-31812	. CANOPY ASSY, Cockpit enclosure rear complete (see figure 70 for detail breakdown)	1	4-268
	159-31812-25	. CANOPY ASSY, Cockpit enclosure rear complete (see figure 70 for detail breakdown)	1	269-393
	159-31812-50	. CANOPY ASSY, Cockpit enclosure rear complete (see figure 70 for detail breakdown)	1	394-693
	174-31812	. CANOPY ASSY, Cockpit enclosure rear complete (see figure 71 for detail breakdown)	1	694-
-39	159-318116	. PIN, Aft canopy aft attaching	1	
-40	159-318117	. RETAINER, Aft canopy aft attaching pin	1	
-41	159-31250-5	FITTING ASSY, Fus lower engine mount attaching (see figure 56)	Ref	
-42	159-31877	FITTING, Front cockpit enclosure rear attachment (see figure 72)	Ref	
	159-31876	FITTING, Front cockpit enclosure front attachment (see fig. 72)	Ref	
	159-31878	FITTING, Rear cockpit enclosure front attachment (see figure 72)	Ref	
-43	159-31879	FITTING ASSY, Rear cockpit encl rear attach lower (see fig. 72)	Ref	

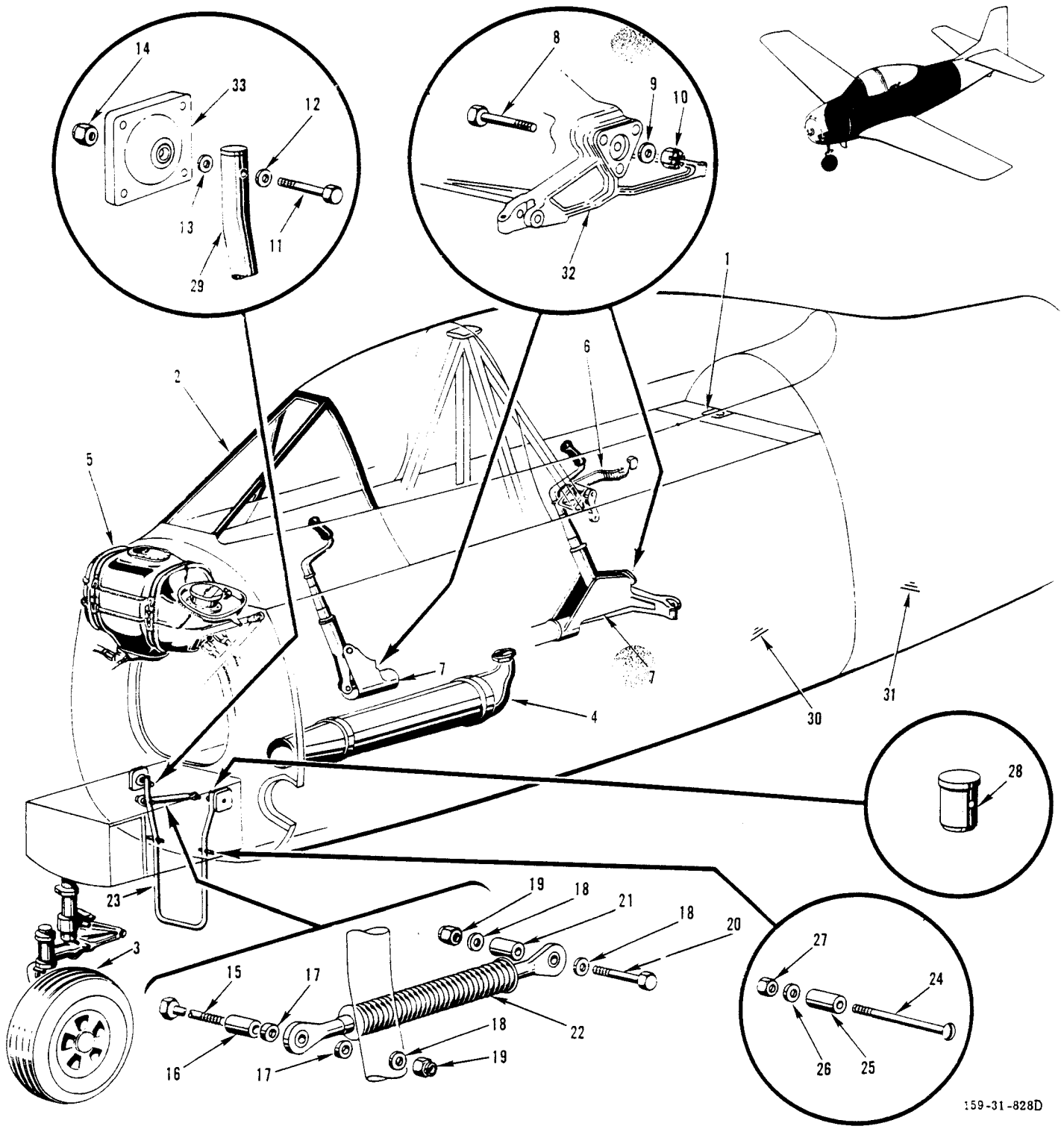


FIGURE 51 - FUSELAGE STATION +9.5 TO STATION 238 7/8 FRAME ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
51	159-31111		FRAME ASSEMBLY, Fuselage station +9.5 to station 238 7/8 . . . . (complete (see Figure 50 for next assembly)	Ref	
-1	159-51151		. COVER, Fuselage station 166 gyro compass sight	1	
	159-31113		. FUSELAGE ASSEMBLY, Station +9 1/2 to 168 complete	1	--693
	174-31003		. FUSELAGE ASSEMBLY, Station +9 1/2 to 168 complete	1	694-
-2	No Number		. . WINDSHIELD ASSEMBLY AND ATTACHING PARTS (see Figure 80 for detail breakdown . .	NP	--693
	No Number		. . WINDSHIELD ASSEMBLY AND ATTACHING PARTS (airplanes 694- see Figure 81 for detail breakdown) . .	NP	694-
	No Number		. . FWD FUS COVERS AND DOORS (see Figure 54 for breakdown) . .	NP	

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
51	159--2031		.	.					ENGINE ACCESSORY EQUIPMENT INSTL, Fuselage (see figure 90 for detail breakdown)	NP	4-20
	159--2131		.	.					ENGINE ACCESSORY EQUIPMENT INSTL, Fuselage (see figure 90 for detail breakdown)	NP	21-
	159--8031		.	.					FUEL SYS EQUIP. INSTL, Fus (see fig. 90 for breakdown)	NP	4-393
	174--8125		.	.					FUEL SYS EQUIP. INSTL, Fus (see fig. 90 for breakdown)	NP	394-693
	174--8031		.	.					FUEL SYS EQUIP. INSTL, Fus (see fig. 90 for breakdown)	NP	694-
	159-51033		.	.					INSTRUMENT EQUIP. INSTL, Fus sta 49 1/2 to sta 168 (see fig. 96, 98 and 251 for detail breakdown)	NP	
	159-52031		.	.					SURFACE CONTROL INSTALLATION, Fuselage forward (see figure 106 for detail breakdown)	NP	
	159-5-034		.	.					ELECTRICAL EQUIPMENT INSTL, Fus sta 49 1/2 to sta 168 complete (see figure 153 for detail breakdown)	NP	4-268
	171-5-034		.	.					ELECTRICAL EQUIPMENT INSTL, Fus sta 49 1/2 to sta 168 complete (see figure 154 for complete breakdown)	NP	269-393
	174-5-034		.	.					ELECTRICAL EQUIPMENT INSTL, Fus sta 49 1/2 to sta 168 complete (see figure 154 for complete breakdown)	NP	394-
	159-58018		.	.					HYDRAULIC EQUIPMENT INSTL, Fus mating pump disconnect to firewall (see figure 249 for detail breakdown)	NP	
	159-58021		.	.					HYDRAULIC EQUIPMENT INSTL, Fus mating floor to side panel (see fig. 137 and 139 for detail breakdown)	NP	
	159-58022		.	.					HYDRAULIC EQUIPMENT INSTL, Mating wheel to side panel (see figure 124, 130 and 139 for detail breakdown)	NP	
	159-71331		.	.					RADIO EQUIP. INSTL, Fuselage forward (see figure 176, 178, 179 and 180 for detail breakdown)	NP	4-843
	174-71331		.	.					RADIO EQUIP. INSTL, Fusealge sta 49 1/2 to 168 (see figure 180A for detail breakdown)	NP	844-
	159-71-31		.	.					RADIO EQUIP. INSTL, Fuselage sta 168 (see figure 174, 176 and 178 for detail breakdown)	NP	4-268
	171-71-31		.	.					RADIO EQUIP. INSTL, Fuselage sta 168 (see figure 176, 177, 179, 180 and 182 for detail breakdown)	NP	269-843
	174-71-31		.	.					RADIO EQUIP. INSTL, Fuselage sta 168 (see figure 177A, 180A and 182A for detail breakdown)	NP	844-
	159-73331		.	.					OXYGEN SYSTEM EQUIPMENT INSTL, Fuselage forward (see figure 189 for detail breakdown)	NP	4-268
	171-73331		.	.					OXYGEN SYS EQUIP. INSTL, Fus fwd (see fig. 189 for bkdn	NP	269-
-3	159-34031		.	.					AUXILIARY ALIGHTING GEAR INSTL (see fig. 211 for bkdn)	NP	
-4	159-53331		.	.					HEAT AND VENT SYS EQUIPMENT INSTL, Fus sta 49 1/2 to sta 168 (see figure 190 for detail bkdn)	NP	
-5	159-47031		.	.					OIL SYSTEM EQUIPMENT INSTL, Fuselage section (see figure 247 for detail bkdn)	NP	
-6	159-33018		.	.					ALIGHTING GEAR CONTROL SYSTEM INSTL, Rear cockpit (see fig. 210 for detail bkdn)	NP	
-7	159-52125		.	.					STICK ASSY, Forward and aft control complete (see fig. 112 for detail bkdn)	1	
	ATTACHING PARTS										
-8	AN6-20		.	.					BOLT	2	
-9	AN960D616		.	.					WASHER	2	
-10	AN310-6		.	.					NUT	2	
	---*---										
-11	AN4-17A		.	.					BOLT	2	
-12	AN960D416		.	.					WASHER	2	
-13	2W1AL16-14-91		.	.					WASHER, Plain (North American)	2	
-14	AN365-428		.	.					NUT	2	
-15	AN3-20A		.	.					BOLT	1	
-16	4S3D10-4		.	.					SPACER, Bolt (North American)	1	
-17	159-31779		.	.					SPACER, Fuselage station 57 service step bungee	2	
-18	AN960D10		.	.					WASHER	3	
-19	AN365-1032		.	.					NUT	2	
-20	AN3-13A		.	.					BOLT	1	
-21	4S3D10-10		.	.					SPACER, Bolt (North American)	1	
-22	159-33308		.	.					BUNGEE ASSY, Main alighting gear fus door actuating mechanism (refer to T. O. 16C1-1-114 for list of detail parts)	1	
-23	159-31776		.	.					STEP ASSEMBLY, Fuselage station 57.0 service	1	
-24	MAS221-32		.	.	.				SCREWS, Brazier head Phillips recess alloy steel 10-32.	2	
-25	4S3-10-20		.	.	.				SPACER, Bolt (North American)	2	
-26	AN960-10		.	.	.				WASHER	2	
-27	AN365-1032		.	.	.				NUT	2	
-28	159-31776-5		.	.	.				PLUG, Fuselage station 57.0 service	2	
-29	159-31776-3		.	.	.				STEP ASSEMBLY, Fuselage station 57.0 service	1	
-30	159-31102		.	.					FRAME ASSEMBLY, Fuselage station 49.5 to station 168 (see figure 52 for detail breakdown)	1	4-693
	174-31102		.	.					FRAME ASSEMBLY, Fuselage station 49.5 to station 168 (see figure 53 for detail breakdown)	1	694-843
	174-31102-51		.	.					FRAME ASSEMBLY, Fuselage station 49.5 to station 168 (see figure 53 for detail breakdown)	1	844-
-31	159-31611		.						FUSELAGE ASSY, Intermediate section sta 168 to sta 238 7/8 complete (see figure 33 for detail breakdown)	1	
-32	159-52103								YOKE ASSEMBLY, Control stick torque tube aft (see fig. 112)	Ref	
-33	159-31778								SUPPORT ASSY, Fus sta 57.0 service step (see figure 57)	Ref	

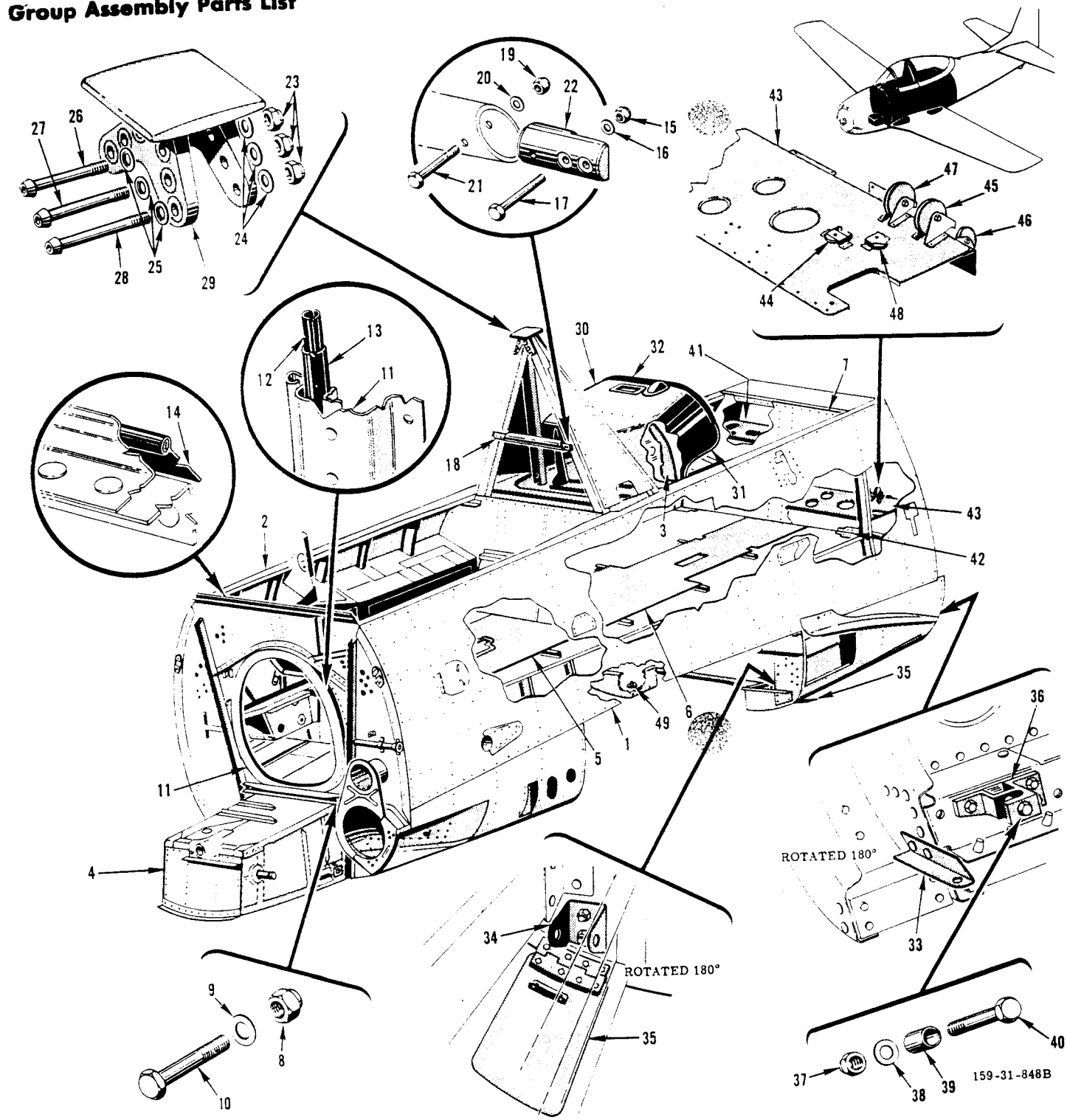


FIGURE 52 - FUSELAGE STATION 49.5 TO 168 FRAME ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
2	159-31100	FRAME ASSY, Fus sta 49.5 to 168 (see fig. 51 for next assy) . . .	Ref	4-693
-1	159-31601	. PANEL ASSEMBLY, Fuselage sta 49 1/2 to 168 LH complete . . . . (see figure 62 for detail breakdown)	1	4-693
-2	159-31605	. PANEL ASSEMBLY, Fuselage sta 49 1/2 to 168 RH complete . . . . (see figure 58 for detail breakdown)	1	4-268
-3	159-31683	. PANEL ASSEMBLY, Fuselage sta 121.375 left sub-instrument . . . (see figure 103 for detail breakdown)	1	269-393
	159-31683-51	. PANEL ASSEMBLY, Fuselage sta 121.375 left sub-instrument . . . (see figure 103 for detail breakdown)	1	394-493
	159-31683-101	. PANEL ASSEMBLY, Fuselage sta 121.375 left sub-instrument . . . (see figure 103 for detail breakdown)		

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
52	159-31683-151	.	PANEL ASSEMBLY, Fuselage sta 121.375 left sub-instrument (see figure 103 for detail breakdown)	1	494-693
-4	159-31620	.	BEAM ASSY, Nose wheel complete (see fig. 56 for breakdown)	1	4-693
-5	159-31785	.	FLOOR ASSEMBLY, Fuselage cockpit forward center (see figure 67 for detail breakdown)	1	4-693
	159-31785-51	.	FLOOR ASSEMBLY, Fuselage cockpit forward center (see figure 67 for detail breakdown)	1	61-82
	159-31785-101	.	FLOOR ASSEMBLY, Fuselage cockpit forward center (see figure 67 for detail breakdown)	1	83-268
	159-31785-151	.	FLOOR ASSY, Fuselage cockpit forward center (see fig. 67)	1	269-693
-6	159-31786	.	FLOOR ASSY, Fuselage cockpit rear center (see figure 67)	1	4-693
-7	159-31116	.	BULKHEAD ASSEMBLY, Fuselage station 156.855 canted rear. (see figure 67 for detail breakdown)	1	4-80
	159-31116-101	.	BULKHEAD ASSEMBLY, Fuselage station 156.855 canted rear (see figure 67 for detail breakdown)	1	81-160
	159-31116-201	.	BULKHEAD ASSEMBLY, Fuselage station 156.855 canted rear (see figure 67 for detail breakdown)	1	161-268
	159-31116-151	.	BULKHEAD ASSEMBLY, Fuselage station 156.855 canted rear (see figure 67 for detail breakdown)	1	269-693
-8	AN365-820	.	NUT	2	4-693
-9	AN960-816	.	WASHER	2	4-693
-10	AN8-12A	.	BOLT	2	4-693
-11	159-31716	.	RING ASSEMBLY, Fuselage sta 49.5 firewall door seal	1	4-693
-12	159-31716-11	.	. TUBE, Synthetic rubber	1	4-693
-13	159-31716-13	.	. TUBE, Vinyl	1	4-693
	159-31717	.	ANGLE ASSEMBLY, Fuselage station 49.5 firewall splice	1	4-268
	159-31717-51	.	ANGLE ASSEMBLY, Fuselage station 49.5 firewall splice	1	269-693
-14	159-31763	.	. SEAL ASSEMBLY, Fuselage sta 49.5 at WL +15 firewall	1	4-268
-15	AN365-428	.	NUT	4	4-693
-16	AN960-416	.	WASHER	4	4-693
-17	AN4-12A	.	BOLT	4	4-693
-18	159-53016	.	TUBE ASSEMBLY, Shoulder harness support front	1	4-693
-19	AN365-1032	.	. NUT	2	4-693
-20	AN960-10	.	. WASHER	2	4-693
-21	AN3-15A	.	. BOLT	2	4-693
-22	159-53015-1	.	. FITTING, Shoulder harness front tube support LH	1	4-693
	159-53015-2	.	. FITTING, Shoulder harness front tube support RH	1	4-693
-23	AN365-720	.	NUT,	6	4-693
-24	NAS143-7	.	WASHER, X4130 or equiv 125,000 to 145,000 PSI plain	6	4-693
-25	NAS143-70	.	WASHER, X4130 or equiv 125,000 to 145,000 PSI countersunk	6	4-693
-26	NAS147-45	.	BOLT, Internal wrenching steel 7/16-20	2	4-693
-27	NAS147-48	.	BOLT, Internal wrenching steel 7/16-20	2	4-693
-28	NAS147-50	.	BOLT, Internal wrenching steel 7/16-20	2	4-693
-29	159-31149	.	FITTING, Fuselage station 108 1/8 turnover truss cap	1	4-693
-30	159-31858	.	SHROUD ASSEMBLY, Aft cockpit enclosure	1	4-268
	159-31858-51	.	SHROUD ASSEMBLY, Aft cockpit enclosure	1	269-693
-31	159-31858-7	.	. PAD, Rubber LH side	1	4-693
	159-31858-9	.	. PAD, Rubber RH side	1	4-693
-32	159-318208-3	.	. PAD, Cockpit enclosure shroud	1	4-693
-33	159-31086-1	.	CLIP, Fuselage luggage door stop guide LH	1	4-693
	159-31086-2	.	CLIP, Fuselage luggage door stop guide RH	1	4-693
	159-31177	.	FRAME ASSEMBLY, Fuselage station 136 1/2 lower	1	4-693
-34	159-31068-1	.	. FITTING, Fuselage sta 136 1/2 luggage door hinge LH	1	4-693
	159-31068-2	.	. FITTING, Fuselage sta 136 1/2 luggage door hinge RH	1	4-693
-35	159-31713-1	.	DOOR ASSEMBLY, Luggage door and speed brake actuating LH	1	4-693
	159-31713-2	.	DOOR ASSEMBLY, Luggage door and speed brake actuating RH	1	4-693
-36	159-311127-1	.	STOP ASSEMBLY, Fuselage luggage door latch LH	1	4-693
	159-311127-2	.	STOP ASSEMBLY, Fuselage luggage door latch RH	1	4-693
-37	AN364-428	.	. NUT	1	4-693
-38	AN960-416L	.	. WASHER	1	4-693
-39	4B21S4-012	.	. BUSHING, Spacer (North American)	1	4-693
-40	AN4-11A	.	. BOLT	1	4-693
-41	159-51022	.	SUPPORT ASSEMBLY, Slaved gyro compass and amplifier fuselage station 158 7/16 to 168	1	4-268
	159-51022-51	.	SUPPORT ASSEMBLY, Slaved gyro compass and amplifier fuselage station 158 7/16 to 168	1	269-693
-42	159-31386-1	.	FITTING, Fuselage station 155.218 LH	1	4-693
	159-31386-2	.	FITTING, Fuselage station 155.218 RH	1	4-693
-43	159-71108	.	SUPPORT ASSY, Radio equipment fus sta 155 5/8 to 168	1	4-268
	159-71108-101	.	SUPPORT ASSY, Radio equipment fus sta 155 5/8 to 168	1	269-593
	159-71108-151	.	SUPPORT ASSY, Radio equipment fus sta 155 5/8 to 168	1	594-693
	159-52564	.	. BRACKET ASSY, Rudder trim tab cable fus sta 161 3/4	1	4-268
	159-52564-21	.	. BRACKET ASSY, Rudder trim tab cable fus sta 161 3/4	1	269-693
-44	AN210-1A	.	. . PULLEY	1	4-693
	159-52558	.	. BRACKET ASSY, Elev trim tab cable pulley fus sta 168 outbd.	1	4-693
-45	AN210-2A	.	. . PULLEY	1	4-693
	159-18234	.	. BRACKET ASSY, Flap by-pass control fus sta 169 5/16 pulley.	1	4-693
-46	AN210-2A	.	. . PULLEY	1	4-693
	159-52557	.	. BRACKET ASSY, Elev trim tab cable pulley fus sta 168 inbd	1	4-693
-47	AN210-2A	.	. . PULLEY	1	4-693
	159-52554	.	. BRACKET ASSY, Rud trim tab cable pulley fus sta 164 3/8	1	4-693
-48	AN210-1A	.	. . PULLEY	1	4-693
-49	3F2-4	.	FITTING, Bulkhead union (North American) (right side only)	1	4-693

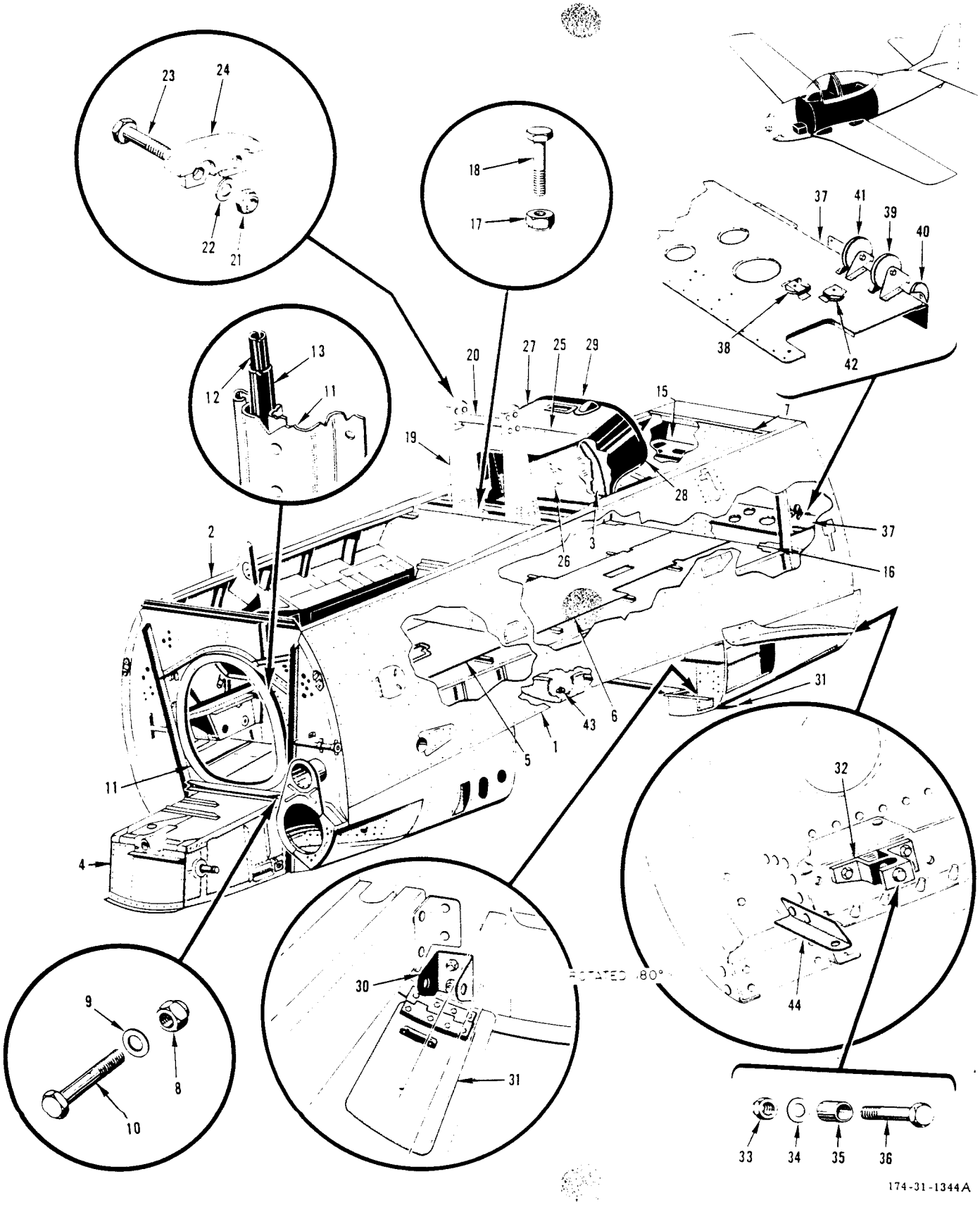


FIGURE 53 - FUSELAGE STATION 49.5 TO 168 FRAME ASSEMBLY

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
53	174-31102	FRAME ASSY, Fus sta 49.5 to 168 (see fig. 51 for next assy) . . .	Ref	694-843
	174-31102-51	FRAME ASSY, Fus sta 49.5 to 168 (see fig. 51 for next assy) . . .	Ref	844-
-1	174-31604	. PANEL ASSEMBLY, Fuselage sta 49 1/2 to 168 LH complete (see figure 62 for detail breakdown) .	1	694-
-2	174-31605	. PANEL ASSEMBLY, Fuselage sta 49 1/2 to 168 RH complete (see figure 62 for detail breakdown) .	1	694-
-3	159-31683-201	. PANEL ASSEMBLY, Fuselage sta 121.375 left sub-instrument . . . (see figure 103 for detail breakdown)	1	694-
-4	159-31682	. BEAM ASSY, Nose wheel complete (see fig. 56 for breakdown) . .	1	694-
-5	159-31785-151	. FLOOR ASSEMBLY, Fuselage cockpit forward center (see figure 67 for detail breakdown) .	1	694-
-6	159-31786-50	. FLOOR ASSY, Fuselage cockpit rear center (see figure 67) . . .	1	694-
-7	159-31116-151	. BULKHEAD ASSEMBLY, Fuselage station 156.855 canted rear . . . (see figure 67 for detail breakdown)	1	694-843
	159-31116-251	. BULKHEAD ASSEMBLY, Fuselage station 156.855 canted rear . . . (see figure 67 for detail breakdown)	1	844-
-8	AN365-632	. NUT	2	694-
-9	AN960-616	. WASHER	2	694-
-10	AN3-12A	. BOLT	2	694-
-11	159-31716	. RING ASSEMBLY, Fuselage station 49.5 firewall door seal . . .	1	694-
-12	159-31716-11	. . TUBE, Synthetic rubber	1	694-
-13	159-31716-13	. . TUBE, Vinyl	1	694-
-14	DELETED	. . . . .		
-15	159-31022-51	. SUPPORT ASSEMBLY, Slaved gyro compass and amplifier . . . . . fuselage station 158 7/16 to 168	1	694-
-16	159-31366-1	. FITTING, Fuselage station 155.215 LH	1	694-
	159-31366-2	. FITTING, Fuselage station 155.215 RH	1	694-
-17	AN365-624	. NUT	4	694-
	AN365-428	. NUT	4	694-
-18	AN3-11A	. BOLT	4	694-
	AN3-12A	. BOLT	4	694-
-19	174-31132	. SUPPORT ASSY, Fus sta 107 1/8 shoulder harness	1	694-
-20	174-31136	. . TUBE ASSY, Shoulder harness support forward	1	694-
-21	AN365-1032	. . NUT	1	694-
-22	AN960-716	. . WASHER	1	694-
-23	MS9221-10	. . SCREW, Brazier head Phillips recess alloy steel 10-32 . . .	1	694-
-24	174-31135-1	. . CAP, Fus sta 107 1/8 shoulder harness support LH	1	694-
	174-31135-2	. . CAP, Fus sta 107 1/8 shoulder harness support RH	1	694-
-25	174-31062	. FAIRING ASSEMBLY, Cockpit enclosure aft instrument	1	694-
	174-31145	. . SUPPORT ASSY, Inst panel upper stab rear (superseded by . . 174-311-5-51 and 174-311-5-101. 174-31145 may be used interchangeably with 174-311-5-51 and 174-311-5-101 until stock is exhausted)	2	694-944
	174-311-5-51	. . SUPPORT ASSY. Inst panel stab rear (supersedes 174-311-5 and is superseded by 174-31145-101. 174-31145-51 may be used interchangeably with 174-31145-101 until stock is exhausted)	2	694-944
	174-311-5-101	. . SUPPORT ASSY, Inst panel upper stab rear (supersedes . . . 174-311-5 and 174-31145-51 for future procurement)	2	694-
-26	AN6006D6	. . . INSULATOR, Vibration (Used on 174-31145)	1	694-944
	6952K	. . . MOUNT, MET-L-FLEX (Robinson Aviation) (used on . . . . . 174-31145-51)	1	694-944
	KL1-	. . . MOUNT (Robinson Aviation) (used on 174-31145-101) . . .	1	694-
-27	174-31858	. SHROUD ASSEMBLY, Aft cockpit enclosure	1	694-
-28	174-31858-3	. . PAD, Rubber LH side	1	694-
	174-31858-5	. . PAD, Rubber RH side	1	694-
-29	159-318208-3	. . PAD, Cockpit enclosure shroud	1	694-
	159-31177	. FRAME ASSEMBLY, Fuselage station 136 1/2 lower	1	694-
-30	159-31068-1	. . FITTING, Fuselage sta 136 1/2 luggage door hinge LH	1	694-
	159-31068-2	. . FITTING, Fuselage sta 136 1/2 luggage door hinge RH	1	694-
-31	159-31713-1	. DOOR ASSEMBLY, Luggage door and speed brake actuating LH . . .	1	694-
	159-31713-2	. DOOR ASSEMBLY, Luggage door and speed brake actuating RH . . .	1	694-
-32	159-311127-1	. STOP ASSEMBLY, Fuselage luggage door latch LH	1	694-
	159-311127-2	. STOP ASSEMBLY, Fuselage luggage door latch RH	1	694-
-33	AN364--428	. . NUT	1	694-
-34	AN960--16L	. . WASHER	1	694-
-35	-B21S4-012	. . BUSHING, Spacer (North American)	1	694-
-36	AN4-11A	. . BOLT	1	694-
-37	159-71108-151	. SUPPORT ASSY, Radio equipment fus sta 155 5/8 to 168	1	694-843
	17--71108	. SUPPORT ASSY, Radio equipment fus sta 155 5/8 to 168	1	844-
	159-52564-21	. . BRACKET ASSY, Rudder trim tab cable fus sta 161 3/4	1	694-
-38	AN210-1A	. . . PULLEY	1	694-
	159-52558	. . BRACKET ASSY, Elev trim tab cable pulley fus sta 166 outbd.	1	694-
-39	AN210-2A	. . . PULLEY	1	694-
	159-18234	. . BRACKET ASSY, Flap by-pass control fus sta 169 5/16 pulley.	1	694-
--0	AN210-2A	. . . PULLEY	1	694-
	159-52557	. . BRACKET ASSY, Elev trim tab cable pulley fus sta 168 inbd .	1	694-
--1	AN210-2A	. . . PULLEY	1	694-
	159-52555	. . BRACKET ASSY, Rud trim tab cable pulley fus sta 164 3/8 . .	1	694-
--2	AN210-1A	. . . PULLEY	1	694-
--3	3F2--	. FITTING, Bulkhead union (North American) (right side only) . .	1	694-
--4	159-31086-1	. CLIP, Fuselage luggage door stop guide LH	1	694-
	159-31086-2	. CLIP, Fuselage luggage door stop guide RH	1	694-

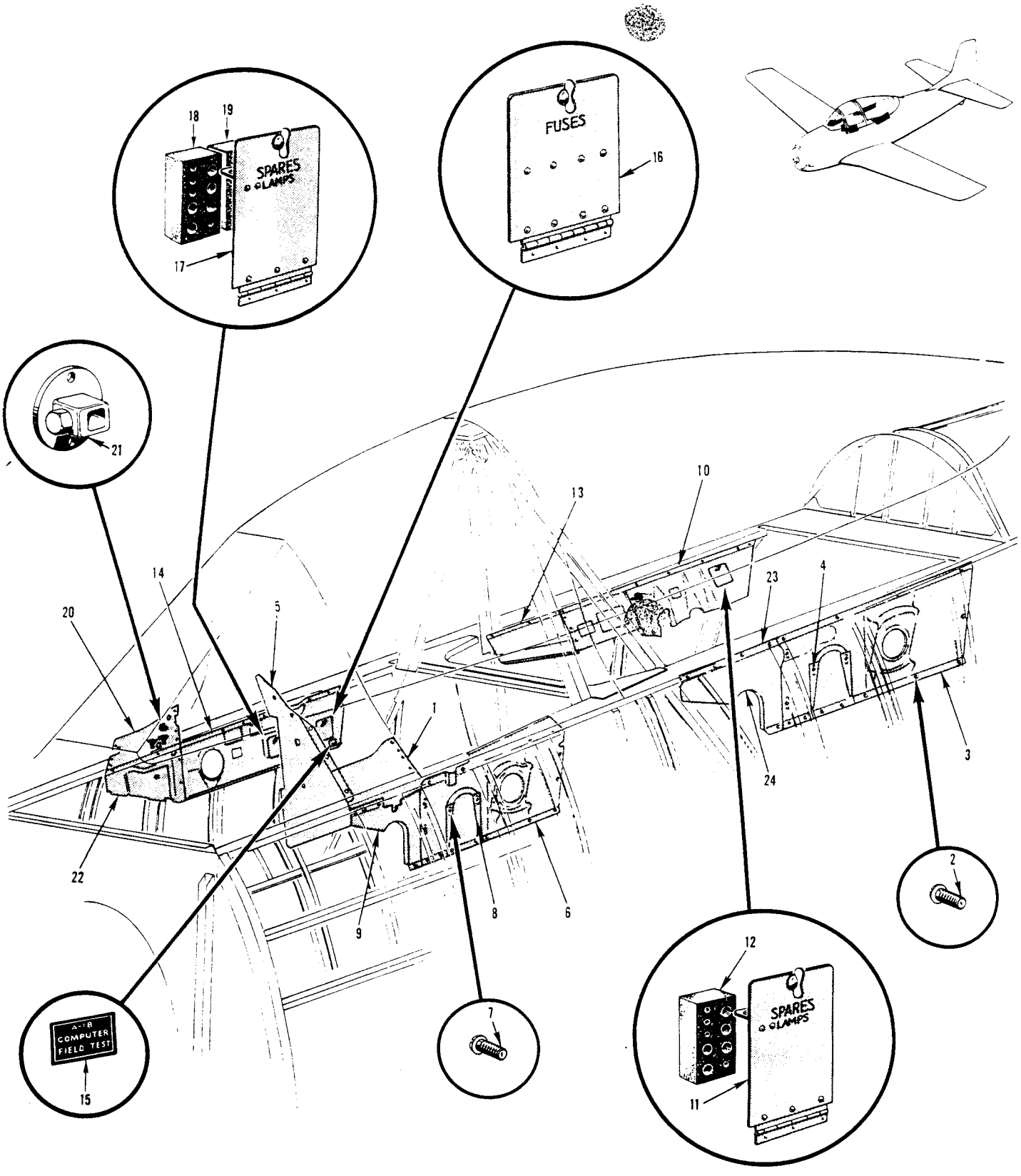


FIGURE 54 - FORWARD FUSELAGE COVERS AND DOORS

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
54	No Number			FORWARD FUSELAGE COVERS AND DOORS (see fig. 51 for next assy) . .	NP	
-1	159-31722			. PANEL ASSY, Fuselage sta 68 1/4 to windshield bow LH	1	
-2	AN515-8R7			. SCREW	58	
-3	159-31727			. PANEL ASSEMBLY, Fuselage station 136 to station 160 3/8 . . . cockpit canopy handle access	1	
-4	159-31729			. . DOOR ASSEMBLY, Aft cockpit canopy handle access	1	
-5	159-31682			. PANEL ASSY, Fus sta 68 1/4 left sub-inst (see fig. 103 for . . detail breakdown)	1	4-393
	159-31682-51			. PANEL ASSY, Fus sta 68 1/4 left sub-inst (see fig. 103 for . . detail breakdown)	1	394-4??
	159-31682-101			. PANEL ASSY, Fus sta 68 1/4 left sub-inst see fig. 103 for . . detail breakdown)	1	494-
-6	159-31726			. PANEL ASSY, Fus sta 82 7/16 to sta 107 cockpit close-out left.	1	
-7	AN515-8R7			. . SCREW	2	
-8	159-31728			. . DOOR ASSY, Forward cockpit canopy handle access	1	
-9	159-31724			. PANEL ASSY, Fus sta 68 3/32 to 83 1/8 cockpit close-out left .	1	
-10	159-31755			. PANEL ASSY, Fuselage station 132.375 to canted station . . . . 156.855 cockpit close-out RH	1	4-80
	159-31713-			. PANEL ASSY, Fuselage station 132.375 to canted station . . . . 156.855 cockpit close-out right	1	81-
-11	159-54100			. . PANEL ASSEMBLY, Spare lamp storage aft	1	
-12	159-54068-3			. . . PAD, Spare electric lamps retaining	1	
	1028--			. . BASE ASSY, Cockpit lamp type C5 and C4 (Soderberg) (Spec. . 94-32294D)	1	397-
-13	159-31754			. CLOSE-OUT, Fus sta 121.437 to 132.250 aft cockpit right . . .	1	
-14	159-31678			. PANEL ASSY, Fus sta 82 7/16 to 107 cockpit close-out right . .	1	4-80
	159-31-133			. PANEL ASSY, Fus sta 79 3/8 to 107 cockpit close-out right . .	1	81-268
	159-31-133-50			. PANEL ASSY, Fus sta 79 3/8 to 107 cockpit close-out right . .	1	269-593
	159-31-133-100			. PANEL ASSY, Fus sta 79 3/8 to 107 cockpit close-out right . .	1	594-
-15	159-54016			. . DECALCOMANIA, AIB flight computer field test receptacle . .	1	4-593
-16	159-54161	*3		. . PANEL ASSEMBLY, Electrical fuses	1	4-268
	174-54521	*4		. . PANEL ASSEMBLY, Electrical fuse	1	4-268
	171-54070			. . PANEL ASSEMBLY, Electrical fuse	1	269-593
	174-54065			. . PANEL ASSEMBLY, Electrical fuse	1	594-
-17	159-54100			. . PANEL ASSEMBLY, Spare lamp storage aft	1	4-80
	159-54431			. . PANEL ASSEMBLY, Spare lamp storage	1	81-
-18	159-54068-3			. . . PAD, Spare electric lamps retaining	1	
-19	159-54068-5			. . . PAD, Spare electric lamps retaining	1	81-
-20	159-311147			. PANEL ASSY, Fuselage station 68 1/4 to windshield . . . . . bow RH close-out	1	*1
	159-311147-51			. PANEL ASSY, Fuselage station 68 1/4 to windshield . . . . . bow RH close-out	1	*2
-21	1028--			. . BASE ASSY, Cockpit lamp type C5 and C4 (Soderberg) . . . . (Spec 94-32294D)	1	*2
-22	159-31677			. PANEL ASSY, Fuselage station 68.75 to 80.0 cockpit . . . . . close-out right	1	
	1028-4			. . BASE ASSY, Cockpit lamp type C5 and C4 (Soderberg) . . . . (Spec 94-32294D)	1	
-23	159-31725			. PANEL ASSY, Fuselage station 121 3/8 to 136 1/4 cockpit . . . close-out left	1	
-24	159-31725-5			. . RUBBERCRAFT	1	

*1 Used on ships 4 thru 328, 394 thru 396, 596 and subs.
*2 Used on ships 329 thru 393 and 397 thru 595.
*3 Not used on aircraft modified in accordance with T. O. 1T-28-50.
*4 Used on aircraft modified in accordance with T. O. 1T-28-50.

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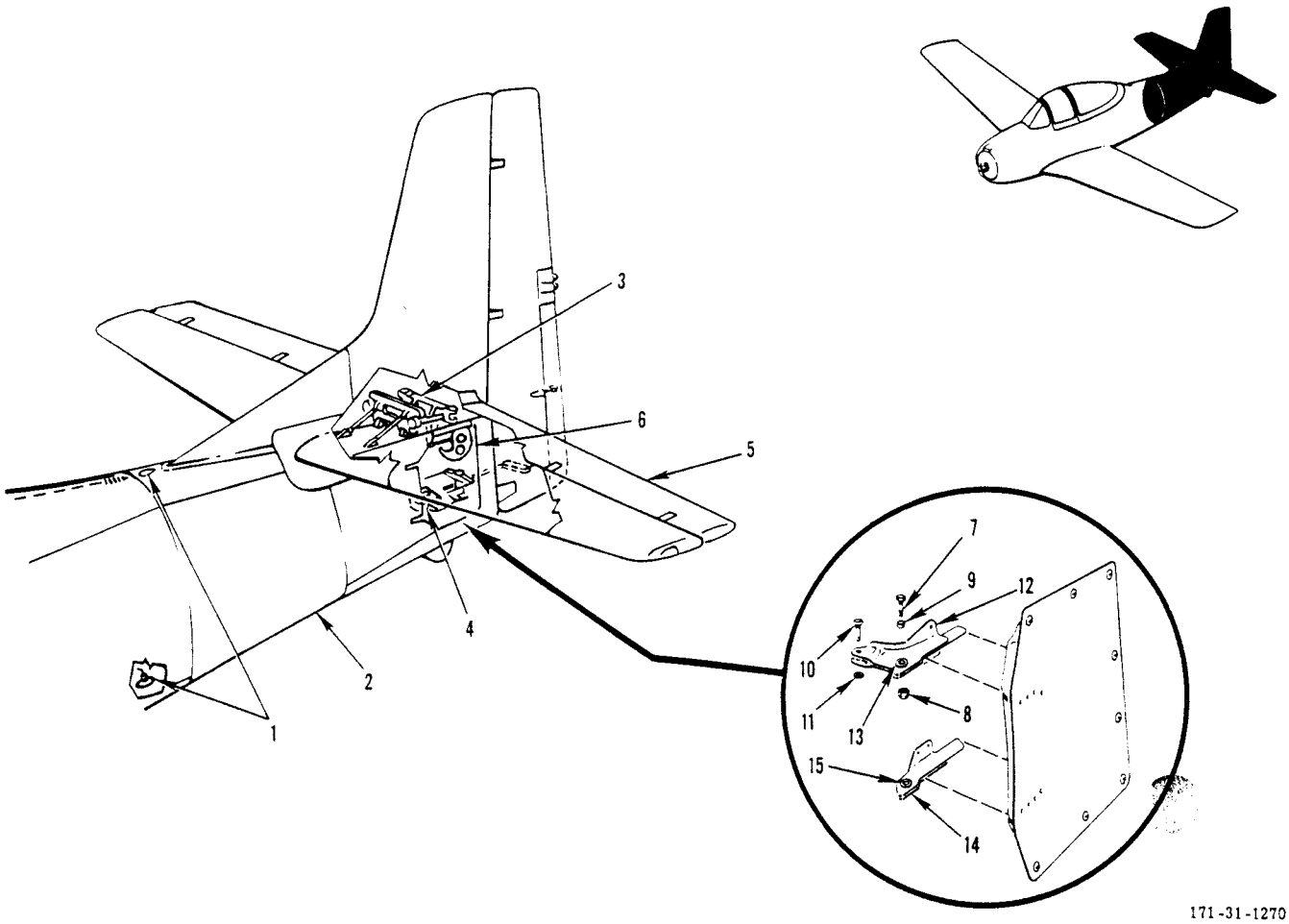


FIGURE 55 - COMPLETE AFT SECTION STATION 238 7/8 to 338 3/8 FUSELAGE ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
55	159-31602	FUSELAGE ASSY, Aft section sta 238 7/8 to 338 3/8 complete (see figure -3 for next assembly)	Ref	
	159-52032	. SURFACE CONTROL INSTL, Aft fuselage (see figure 118 for detail breakdown)	NP	
-1	159-54033	. ELECTRICAL EQUIP INSTL, Rear fuselage (see figure 157 for detail breakdown)	NP	
	159-71123	. RADIO EQUIP. INSTL, Fus aft (see fig. 174, 175, 178, 179, 180, 180A, 181 and 181A for detail breakdown.	NP	
-2	159-31301	. FRAME ASSY, Fuselage sta 238 7/8 to 338 3/8 complete (see figure 56 for detail breakdown)	1	1-160
	159-31301-101	. FRAME ASSY, Fuselage sta 238 7/8 to 338 3/8 complete (see figure 56 for detail breakdown)	1	161-5-6
	159-31301-151	. FRAME ASSY, Fuselage sta 238 7/8 to 338 3/8 complete (see figure 56 for detail breakdown)	1	546-
-3	159-22531	. ELEVATOR MECHANISM INSTL, Torque tube and trim tab (see figure 47 for detail breakdown,	NP	
-4	159-24531	. RUDDER MECHANISM INSTL, Trim tab (see figure 48 for detail breakdown)	NP	
-5	159-20001	. EMPENNAGE INSTL, Complete (see figure 42 for detail breakdown	NP	
-6	159-31010	. DOOR ASSY, Fuselage sta 317 to 338 3/8 canted access	1	
		ATTACHING PARTS		
-7	AN3-6A	. BOLT	2	
-8	AN365-1032	. NUT	2	
-9	4B2B3-008	. BUSHING, Spacer (North American)	2	
-10	AN393-11	. PIN	1	
-11	AN960-10L	. WASHER	1	
		---*---		
-12	159-31091	. . HINGE ASSY, Fus sta 317 access door upper	1	
-13	4B18-5-102	. . . BUSHING, Shoulder (North American)	1	
-14	159-31092	. . HINGE ASSY, Fus sta 317 access door lower	1	
-15	4B18-5-102	. . . BUSHING, Shoulder (North American	1	

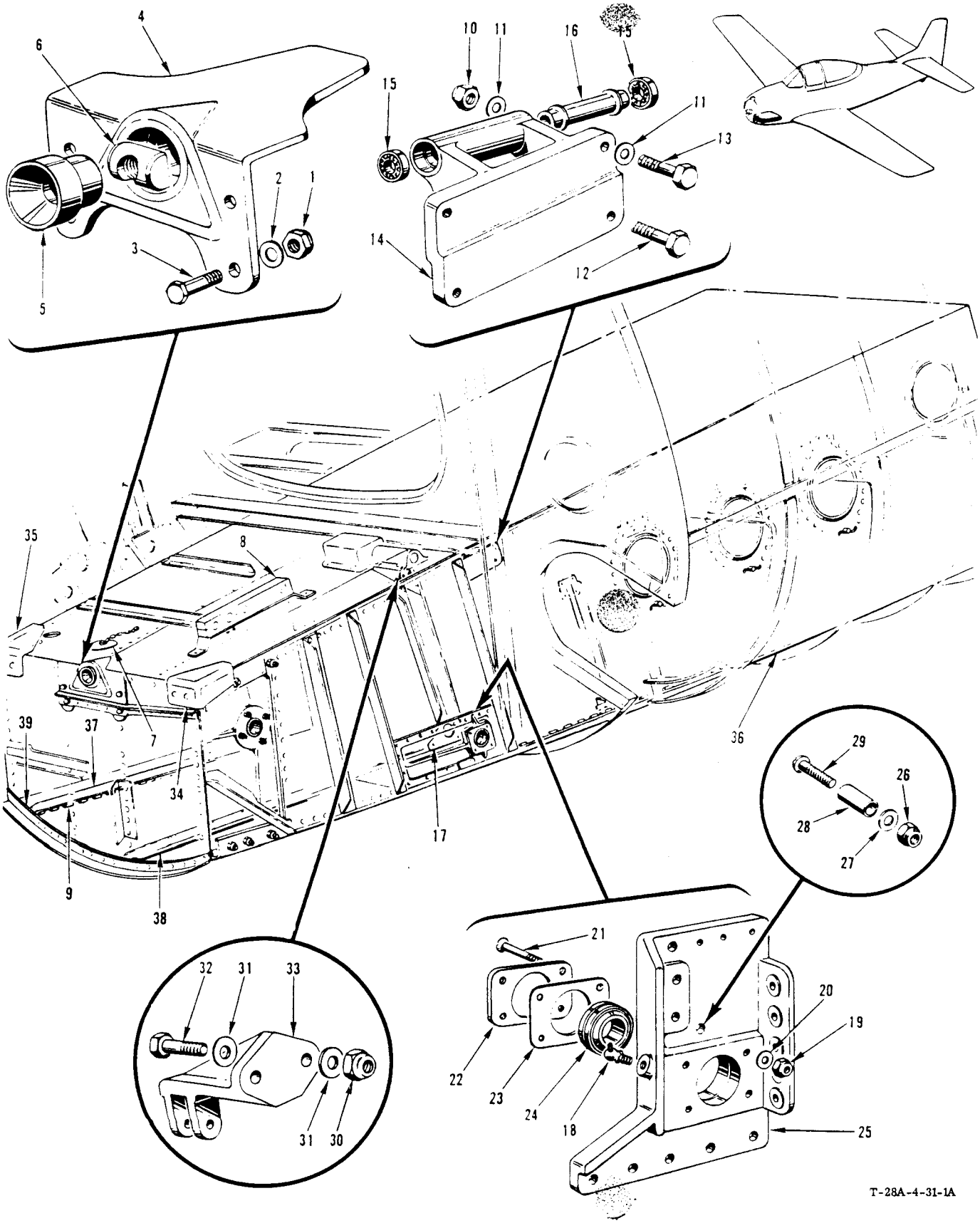


FIGURE 56 - COMPLETE NOSE WHEEL BEAM ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
56	159-31620	BEAM ASSEMBLY, Nose wheel complete (see figures 52 & 53 for next assembly)	Ref	
	159-58006	. HYDRAULIC SYSTEM EQUIPMENT INSTALLATION, Nose wheel well . . . (See fig. 124, 130, 139 & 249 for detail breakdown)	NP	
	159-31133	. BEAM ASSEMBLY, Nose wheel trunnion complete	1	4-140
	159-31133-201	. BEAM ASSEMBLY, Nose wheel trunnion complete	1	141-328
	159-31133-251	. BEAM ASSY, Nose wheel trunnion complete	1	329-393
	159-31133-211	. BEAM ASSY, Nose wheel trunnion complete	1	394-693
	159-31133-301	. BEAM ASSY, Nose wheel trunnion complete	1	694-
-1	AN365-624	. . NUT	4	
-2	AN960-616L	. . WASHER.	4	
-3	AN6-11A	. . BOLT	4	
-4	159-31250-5	. . FITTING ASSEMBLY, Fuselage lower engine mounting attaching	1	
-5	159-31950	. . . BUSHING, Fus lower engine mount attaching fitting . . .	1	
-6	32-1452-080	. . . NUT, Barrel (Elastic Stop Nut)	1	
	159-311154	. . COVER ASSY, Fus sta 33 filler valve access hole	1	
-7	51073	. . . CAP (United-Carr Fastener)	1	
	9C1-3-5	. . . CHAIN, Safety (North American)	1	
-8	159-42052	. . SUPPORT ASSY, Engine lines torque box top center	1	
-9	159-31133-19	. . HINGE, Half	1	
-10	AN365-1032	. . NUT	4	
-11	AN960-10	. . WASHER.	8	
-12	AN3-6A	. . BOLT	2	
-13	AN3-10A	. . BOLT	2	
-14	159-34309-1	. . FITTING ASSEMBLY, Auxiliary landing gear wheel door link attaching fuselage LH .	1	
	159-34309-2	. . FITTING ASSEMBLY, Auxiliary landing gear wheel door link attaching fuselage RH .	1	
-15	AN200K3	. . . BEARING	2	
-16	4S7-2-1.968	. . . SPACER, Flanged dual bearing (North American).	1	
-17	159-34128-5	. . FITTING ASSEMBLY, Auxiliary alighting gear drag brace inboard . . .	1	
-18	NAS2-201	. . . FITTING, Lubrication	1	
-19	AN365-1032	. . . NUT	4	
-20	AN960D10	. . . WASHER	4	
-21	AN509-10-20	. . . SCREW	4	
-22	159-34130	. . . RETAINER, Auxiliary alighting gear drag brace fitting .	1	
-23	159-34131	. . . SHIM, Auxiliary alighting gear drag brace retaining . .	1	
-24	159-34129	. . . BEARING ASSEMBLY, Auxiliary alighting gear drag brace fitting .	1	
-25	159-34128-3	. . . FITTING, Auxiliary alighting gear drag brace inboard . .	1	
-26	AN365-1032	. . . NUT	1	61-
-27	AN960-10	. . . WASHER	1	61-
-28	NAS43C3-48	. . . SPACER, Screw	1	61-
-29	AN520-10R22	. . . SCREW	1	61-
-30	AN365-428	. . NUT	2	
-31	AN960D416	. . WASHER.	4	
-32	AN4-6A	. . BOLT	2	
-33	159-34139-3	. . FITTING, Auxiliary alighting gear brace bungee	1	
-34	159-311133-1	. . CUP, Nose wheel trunnion beam seal LH	1	
-35	159-311133-2	. . CUP, Nose wheel trunnion beam seal RH	1	
-36	159-31134	. . BEAM ASSEMBLY, Nose wheel trunnion LH (see figure 57 for detail breakdown) . . .	1	4-140
	159-31134-101	. . BEAM ASSEMBLY, Nose wheel trunnion LH (see figure 57 for detail breakdown) . . .	1	141-693
	159-31134-201	. . BEAM ASSEMBLY, Nose wheel trunnion LH (see figure 57 for detail breakdown) . . .	1	694-
	159-31135	. . BEAM ASSEMBLY, Nose wheel trunnion RH (see figure 57 for detail breakdown) . . .	1	4-393
	159-31135-101	. . BEAM ASSEMBLY, Nose wheel trunnion RH (see figure 57 for detail breakdown) . . .	1	394-
-37	159-31133-13	. . ANGLE, Nose wheel trunnion	1	
-38	159-31133-21	. . ANGLE, Nose wheel trunnion	1	
-39	159-31133-45	. . ANGLE, Nose beam.	1	

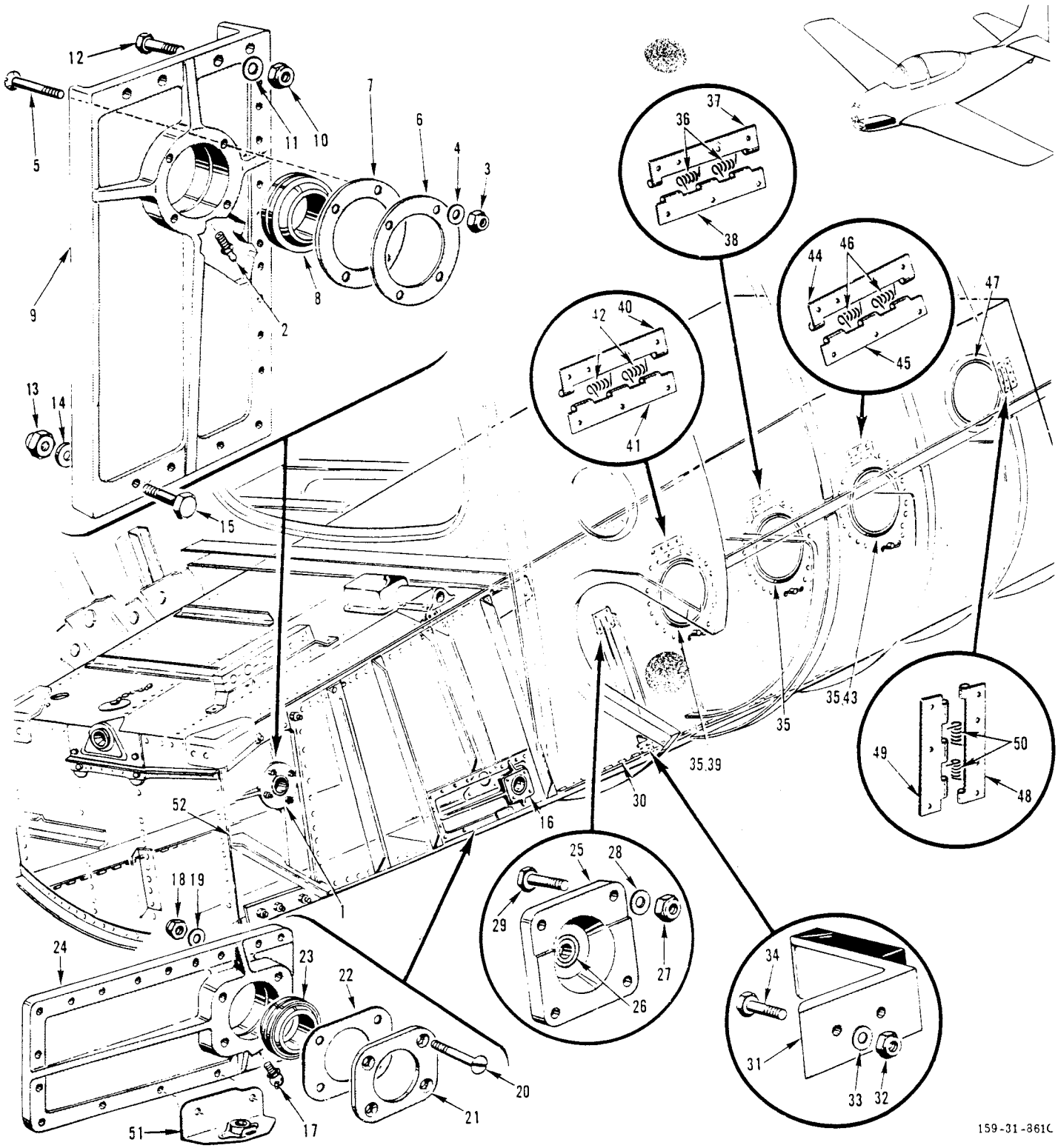


FIGURE 57 - LH AND RH NOSE WHEEL TRUNNION BEAM ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
57	159-31134	BEAM ASSY, Nose wheel trunnion LH (see fig. 56 for next assy) . .	Ref	4-140
	159-31134-101	BEAM ASSY, Nose wheel trunnion LH (see fig. 56 for next assy) . .	Ref	141-693
	159-31134-201	BEAM ASSY, Nose wheel trunnion LH (see fig. 56 for next assy) . .	Ref	694-
	159-31135	BEAM ASSY, Nose wheel trunnion RH (see fig. 56 for next assy) . .	Ref	4-393
	159-31135-101	BEAM ASSY, Nose wheel trunnion RH (see fig. 56 for next assy) . .	Ref	394-
-1	159-34125-5	. FITTING ASSY, Auxiliary alighting gear trunnion LH	1	
	159-34125-6	. FITTING ASSY, Auxiliary alighting gear trunnion RH	1	

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
57-2	NAS2-201	. . FITTING, Lubrication	1	
-3	AN365-1032	. . NUT	4	
-4	AN960-10	. . WASHER	4	
-5	AN509-10R23	. . SCREW	4	
-6	159-34127	. . RETAINER, Auxiliary alighting gear trunnion bearing	1	
-7	159-34134	. . SHIM, Auxiliary alighting gear trunnion bearing retainer	AR	
-8	159-34126	. . BEARING ASSY, Auxiliary alighting gear trunnion	1	
-9	159-34125-3	. . FITTING, Auxiliary alighting gear trunnion LH	1	
	159-34125-4	. . FITTING, Auxiliary alighting gear trunnion RH	1	
-10	AN365-524	. NUT	4	
-11	AN960D516	. WASHER	4	
-12	AN5-7A	. BOLT	4	
-13	AN365-428	. NUT	4	
-14	AN960D416	. WASHER	4	
-15	AN4-7A	. BOLT	4	
-16	159-34132-5	. FITTING ASSY, Aux alighting gear drag brace outbd (LH only)	1	
-17	NAS2-201	. . FITTING, Lubrication	4	
-18	AN365-1032	. . NUT	4	
-19	AN960D10	. . WASHER	4	
-20	AN509-10-20	. . SCREW	4	
-21	159-34130	. . RETAINER, Auxiliary alighting gear drag brace fitting	1	
-22	159-34131	. . SHIM, Auxiliary alighting gear drag brace retainer	AR	
-23	159-34129	. . BEARING ASSY, Aux alighting gear drag brace fitting	1	
-24	159-34132-3	. . FITTING, Auxiliary alighting gear drag brace	1	
-25	159-31778	. SUPPORT ASSY, Fuselage station 57.0 service step	1	
-26	HSBG4	. . BEARING (Adel Precision) (Heim No. LSS4 may be sub)	4	
-27	AN365-1032	. NUT	4	
-28	AN960-10	. WASHER	4	
-29	AN3-7A	. BOLT	4	
-30	159-34307	. HINGE, Auxiliary alighting gear wheel door fuselage	1	
-31	159-31777	. STOP ASSEMBLY, Fuselage station 57 service step down	1	
-32	AN365-1032	. NUT	2	
-33	AN960-10	. WASHER	2	
-34	AN3-6A	. BOLT	1	
	AN42-6A	. BOLT	1	
-35	159-31775	. DOOR ASSY, Nose wheel trun beam lightening hole (LH) (superseded by 159-31775-151. 159-31775 OK to use on airplanes noted)	1	--140
	159-31775-101	. DOOR ASSY, Nose wheel trun beam lightening hole (LH) (superseded by 159-31775-151. 159-31775-101 OK to use on airplanes noted)	1	141-
	159-31775-151	. DOOR ASSY, Nose wheel trunnion beam lightening hole (LH) (supersedes 159-31775 & -101 for future procurement)	1	
-36	159-311137	. . SPRING, Fuselage nose wheel trunnion beam LH door (Used on 159-31775 & -101)	2	
	174-31146	. . SPRING, Fus nose wheel trun beam access door (used on 159-31775-151)	2	
-37	159-31775-5	. . HINGE, Upper half	1	
-38	159-31775-7	. . HINGE, Lower half (used on 159-31775 and 159-31775-101)	1	
	159-31775-17	. . HINGE, Lower half (used on 159-31775-151)	1	141-
-39	159-311171	. DOOR ASSY, Fus aux alighting gear trun beam (superseded by 159-311171-51. 159-311171 may be used interchangeably with 159-311171-51 until stock is exhausted)	1	141-
	159-311171-51	. DOOR ASSY, Fus aux alighting gear trun beam (supersedes 159-311171 for future procurement)	1	141-
-40	159-311171-5	. . HINGE, Half	1	141-
-41	159-311171-7	. . HINGE, Half (used on 159-311171)	1	141-
	159-311171-17	. . HINGE, Half (used on 159-311171-51)	1	141-
-42	159-311137	. . SPRING, Fus nose wheel trun beam LH door (used on 159-311171)	2	141-
	174-31146	. . SPRING, Fus nose wheel trun beam access door (used on 159-311171-51)	2	141-
	AN253-2-304	. . PIN	1	141-
-43	159-311174	. DOOR ASSY, Fus sta 82 3/4 trun beam lighting hole (LH)(superseded by 159-311174-51. 159-311174 may be used interchangeably with 159-311174-51 until stock is exhausted)	1	141-
	159-311174-51	. DOOR ASSY, Fus sta 82 3/4 trun beam lighting hole (LH) (supersedes 159-311174 for future procurement)	1	141-
-44	159-311174-5	. . HINGE, Half	1	141-
-45	159-311174-7	. . HINGE, Half (used on 159-311174)	1	141-
	159-311174-17	. . HINGE, Half (used on 159-311174-51)	1	141-
-46	159-311137	. . SPRING, Fus nose wheel trun beam LH door (used on 159-311174)	2	141-
	174-31146	. . SPRING, Fus nose wheel trun beam access door (used on 159-311174-51)	2	141-
	AN253-2-304	. . PIN	1	141-
-47	159-311173	. DOOR ASSY, Fus sta 82 trunnion beam lightening hole (LH)	1	---
-48	159-311173-5	. . HINGE, Half	1	---
-49	159-311173-7	. . HINGE, Half	1	---
-50	159-311137	. . SPRING, Fuselage nose wheel trunnion beam LH door	2	---
	AN253-2-303	. . PIN	1	---
-51	159-315282	. FITTING ASSY, Engine lower LH cowl torque box rear attaching	1	
-52	159-31533-1	. SEAL ASSY, Engine fixed cowl LH torque box LH	1	
	159-31533-2	. SEAL ASSY, Engine fixed cowl LH torque box RH	1	
	159-31554	. . SEAL, Engine fixed cowl LH torque box	1	

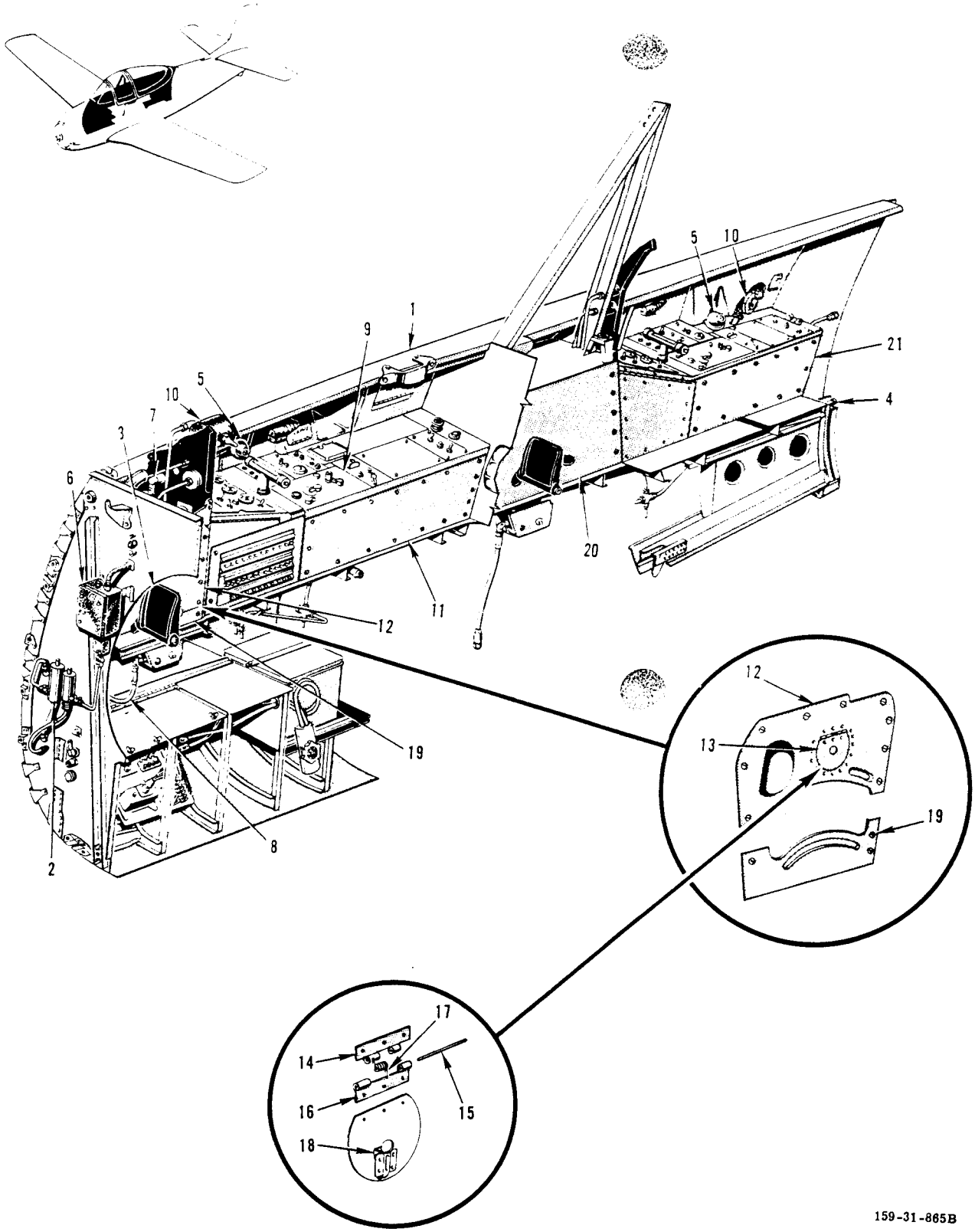


FIGURE 58 - FUSELAGE STATION 49 1/2 TO 168 RH PANEL ASSEMBLY COMPLETE

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
58	159-31605	PANEL ASSEMBLY, Fuselage station 49 1/2 to 168 right hand . . . . complete (see figure 52 for next assembly)	Ref	4-693
	174-31605	PANEL ASSEMBLY, Fuselage station 49 1/2 to 168 right hand . . . . complete (see figure 53 for next assembly)	Ref	694-

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
58-1	159-31105	.	PANEL ASSEMBLY, Fuselage station 49.5 to 168 side right hand complete (see figure 59 for detail breakdown)	Ref	
	174-31105	.	PANEL ASSEMBLY, Fuselage station 49.5 to 168 side RH (see figure 60 for detail breakdown)	Ref	
-2	159-51036	.	INSTRUMENT EQUIPMENT INSTALLATION, Right side panel (see figure 96, 98 and 251 for detail breakdown)	NP	4-268
	171-51036	.	INSTRUMENT EQUIPMENT INSTALLATION, Right side panel (see figure 97, 98 and 251 for detail breakdown)	NP	269-
-3	159-52475	.	CONTROLS INSTALLATION, Rudder pedal right side (see figure 111 for detail breakdown)	NP	
-4	159-53012	.	RELIEF TUBE INSTL, Fus sta +9 1/2 to 168 right hand side panel (see figure 186 and 186A for detail breakdown)	NP	
-5	159-53306	.	HEAT AND VENT EQUIPMENT INSTL, Fuselage sta +9 1/2 to 168 RH side panel (see figure 193 for detail breakdown)	NP	4-268
	159-53306-10	.	HEAT AND VENT EQUIPMENT INSTL, Fuselage sta +9 1/2 to 168 RH side panel (see figure 193 for detail breakdown)	NP	269-
-6	159-54031	.	ELECTRICAL EQUIPMENT INSTALLATION, Fuselage station 49 1/2 to 168 RH side (see figure 144 for detail breakdown)	NP	4-80
	159-54031	.	ELECTRICAL EQUIPMENT INSTALLATION, Fuselage station 49 1/2 to 168 RH side (see figure 144 for detail breakdown)	NP	81-268
	171-54031	.	ELECTRICAL EQUIPMENT INSTALLATION, Fuselage station 49 1/2 to 168 RH side (see figure 145 for detail breakdown)	NP	269-393
	174-54031	.	ELECTRICAL EQUIPMENT INSTALLATION, Fuselage station 49 1/2 to 168 RH side (see figure 145 for detail breakdown)	NP	394-
-7	159-54240	.	SWITCH INSTL, Ignition (see fig. 159 for detail breakdown)	NP	
-8	159-58010	.	HYDRAULIC EQUIPMENT INSTL, Fuselage station -9.5 to 168 right hand side (see figure 138 for detail breakdown)	NP	
-9	159-71031	.	RADIO EQUIPMENT INSTL, Fuselage station +9.5 to 168 RH side (see fig. 174, 176 and 178 for detail breakdown)	NP	4-80
	159-71091	.	RADIO EQUIPMENT INSTL, Fuselage station -9.5 to 168 RH side (see fig. 174, 176 and 178 for detail breakdown)	NP	81-268
	171-71031	.	RADIO EQUIPMENT INSTL, Fuselage station +9.5 to 168 RH side (see figure 175, 177 and 179 for detail breakdown)	NP	269-593
	174-71031	.	RADIO EQUIPMENT INSTL, Fuselage station +9 1/2 to 168 RH side. (see figure 177, 180, 181 & 182 for detail breakdown)	NP	594-843
	174-71091	.	RADIO EQUIPMENT INSTL, Fuselage station +9 1/2 to 168 RH side. (see figure 177A, 180A, 181A & 182A for detail breakdown)	NP	844-
-10	159-73330	.	OXYGEN SYSTEM EQUIPMENT INSTL, Fuselage side panel (see figure 189 for detail breakdown)	NP	4-268
	171-73330	.	OXYGEN SYSTEM EQUIPMENT INSTL, Fuselage side panel (see figure 189 for detail breakdown)	NP	269-
-11	159-31748	.	COVER ASSY, Fus sta 81 to 103.726 pilot's console fwd RH	1	4-80
	159-314115	.	COVER ASSY, Right fwd console terminal panel closeout	1	81-
-12	159-31749	.	COVER ASSEMBLY, Fuselage station +9 1/2 to 68 1/4 pilot's console right hand forward upper	1	4-80
	159-314113	.	COVER ASSY, Right hand fwd console rud pedal closeout upper	1	81-493
	159-314113-11	.	COVER ASSY, Right hand fwd console rud pedal closeout upper	1	494-
-13	159-54159	. .	PANEL ASSEMBLY, Voltage regulator access	1	81-493
	174-54159	. .	PANEL ASSEMBLY, Voltage regulator access	1	494-
-14	159-54159-7	. . .	HINGE, Voltage regulator access panel half	1	81-493
	174-54159-7	. . .	HINGE, Voltage regulator access panel half	1	494-
-15	159-54159-9	. . .	PIN, Voltage regulator access panel hinge	1	81-493
	174-54159-9	. . .	PIN, Voltage regulator access panel hinge	1	494-
-16	159-54159-5	. . .	HINGE, Voltage regulator access panel half	1	81-493
	174-54159-5	. . .	HINGE, Voltage regulator access panel half	1	494-
-17	159-311137	. . .	SPRING, Fuselage nose wheel trunnion beam LH door (supersedes 147-53008)	1	
-18	KM610-32	. . .	FASTENER, Latch (Camlock Fastener)	1	81-493
	H5000-2-032-064	. . .	LATCH ASSY (Hartwell Aviation Supply)	1	494-
-19	159-31750	.	COVER ASSEMBLY, Fuselage station +9 1/2 to 68 1/4 pilot's console right hand forward lower	1	4-80
	159-314114	.	COVER ASSY, Right hand fwd console rud pedal closeout lower	1	81-
-20	159-31751	.	COVER ASSEMBLY, Fuselage station 103.726 to fuselage station 124 pilot's console right hand aft	1	4-80
	159-314125	.	COVER ASSEMBLY, Right hand aft console rudder pedal closeout	1	81-
-21	159-31752	.	COVER ASSEMBLY, Fuselage station 135 to fuselage station 155.355 pilot's console right hand aft	1	4-80
	159-314126	.	COVER ASSY, Right hand aft console terminal panel closeout	1	81-
	174-48032	.	FUEL SYS EQUIP INSTL, Fus RH side panel (see figure 92 for detail breakdown)	NP	694-

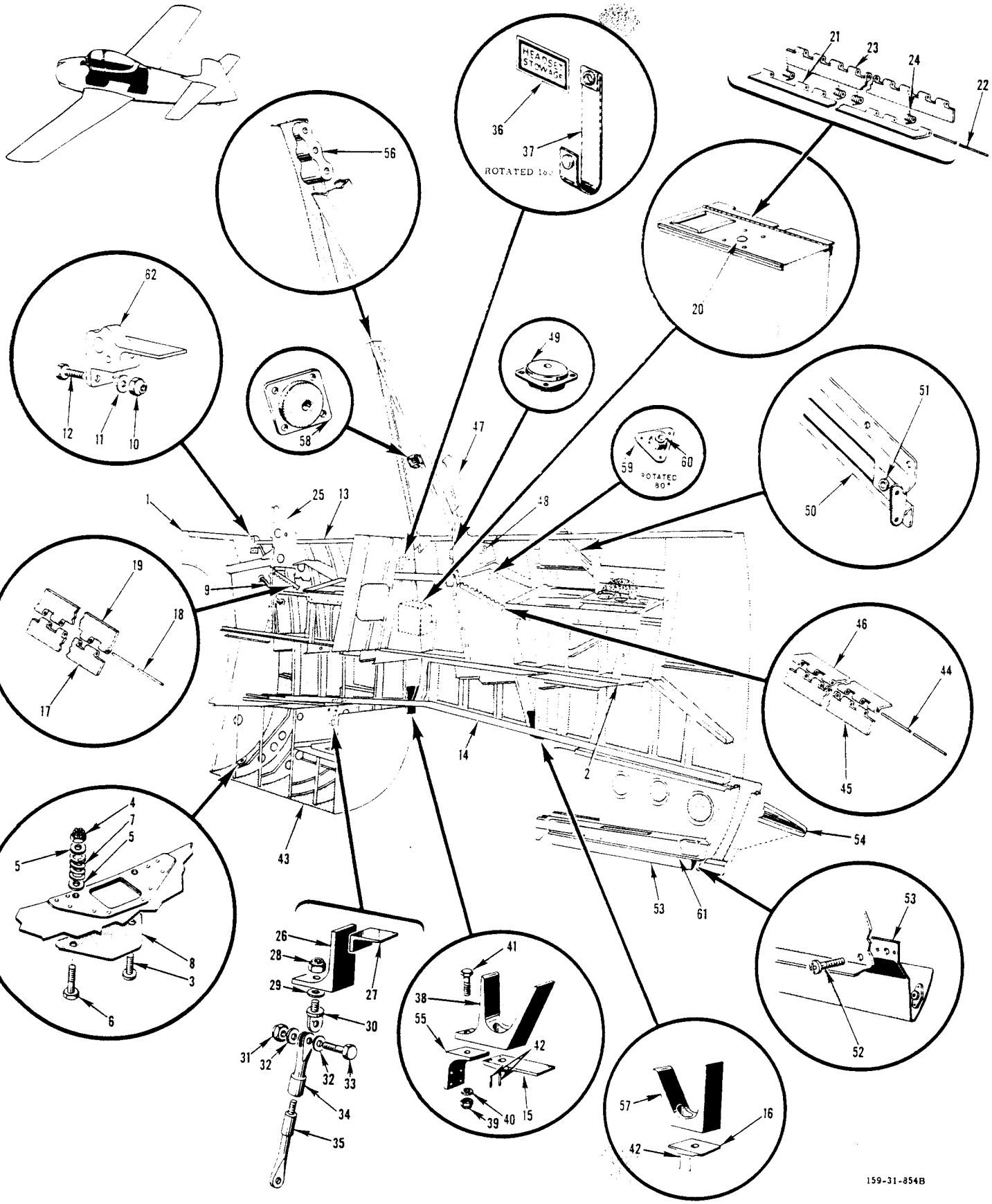


FIGURE 59 - FUSELAGE STATION 48 1/2 TO 168 SIDE RH PANEL ASSEMBLY

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
59	159-31105	PANEL ASSEMBLY, Fuselage station 49 1/2 to 168 side RH . . . . . (see figure 58 for next assembly)	Ref	
-1	159-31219	. FIREWALL ASSEMBLY, Fuselage station -9.5 RH side (see . . . . figure 65 for detail breakdown)	1	--25
	159-31219-101	. FIREWALL ASSY, Fus sta -9.5 RH side (see fig. 65 for breakdown)	1	26-80
-2	159-31784	. FLOOR ASSY, Fus cockpit RH side (see fig. 67 for breakdown) .	1	--80
-3	NAS220-9	. SCREW, Brazier head Phillips recess alloy steel 8-32	2	--80
-4	AN320-3	. NUT	2	--80
-5	AN960-10L	. WASHER	2	--80
-6	AN23-12	. BOLT	1	--80
-7	140-680-6	. SPRING, Plunger compression	1	--80
-8	159-31017	. PLATE, Fus sta -9 1/2 firewall jacking attach fitting cover .	1	--80
-9	159-47090	. TUBE ASSY, Eng crankcase breather line Fus sta -9 1/2	1	--80
-10	AN365--28	. NUT	2	--80
-11	AN960--16	. WASHER	2	--80
-12	AN4-10A	. BOLT	1	--80
-13	159-31121	. LONGERON ASSY, Fuselage station 49 1/2 to 168 forward . . . . upper RH (see figure 60 for detail breakdown)	1	
-14	159-31123	. LONGERON ASSY, Fus sta -9.5 to 168 forward lower RH	1	--80
-14A	159-31131-2	. . PAD, Fuselage station 98.625 to wing front spar	1	--80
-14B	159-31135-2	. . PAD, Fuselage station 131.437 to wing rear spar	1	--80
	159-31006	. FRAME ASSEMBLY, Pilot's console RH forward	1	--80
-15	159-31006-7	. . HINGE, Half	1	--80
-15A	159-31006-9	. . PIN, Hinge	1	--80
-15B	159-31006-21	. . HINGE, Half	1	--80
	159-53103	. . CASE ASSY, Pilot's console RH fwd map and data stowage . .	1	--80
	159-53103-10	. . . COVER ASSEMBLY, Map and data case	1	--80
-20	KM610-51	. . . . LATCH ASSEMBLY (Camloc Fastener)	1	--80
-20A	159-53103-11	. . . . HINGE, Half	1	--80
-20B	159-53103-15	. . . PIN, Hinge	1	--80
-20C	159-53103-13	. . . HINGE, Half	1	--80
-20D	117-53008	. . . SPRING, Navigator's map and data case cover	1	--80
-25	159-31476	. . PANEL ASSY, Pilot's console RH fwd Fus sta 68 1/2 sub-inst.	1	--80
	159-31247	. . . PLATE, Ignition switch indicator	1	--80
	159-31158	. FRAME ASSEMBLY, Fuselage station 78 3/8 side RH	1	--80
-26	159-31147	. . FITTING, Fuselage sta 77.625 wing attaching front	1	--80
-26A	159-31393	. . ANGLE, Fuselage sta 76.375 to lower intercostal	1	--80
-26B	AN365-720	. NUT	1	--80
-26C	AN960-716	. WASHER	1	--80
-27	159-311153	. EYEBOLT, Fuselage to wing attaching forward	1	--80
-27A	AN310-6	. NUT	2	--80
-27B	AN960-616	. WASHER	2	--80
-33	AN6-12	. BOLT (magnetic inspected)	1	--80
-34	159-31382	. FORK, Fus to wing center section leading edge attaching . . .	1	--80
-35	159-31383	. EYE, Fus to wing center section leading edge attaching . . .	1	--80
	159-31264-2	. FRAME ASSY, Fus sta 98.625 fitting wing front spar attaching.	1	--80
	159-31125	. . BULKHEAD ASSEMBLY, Fuselage sta 103.726 RH canted	1	--80
-36	159-71073	. . . DECAL, Headset stowage identification	1	--80
-37	117-71160	. . . STRAP ASSEMBLY, Headset and microphone cord stowage . .	1	--80
-38	159-31146	. . FITTING, Fuselage sta 98.625 wing front spar attaching . .	1	--80
-39	AN365-524	. NUT (magnetic inspected)	1	--80
-40	AN960-516	. WASHER	1	--80
-41	AN5-13A	. BOLT (magnetic inspected)	1	--80
-42	159-311104	. PIN, Fuselage lower longeron to spar fitting attaching . . .	1	--80
-43	159-31112	. FRAME ASSEMBLY, Fuselage station -9.5 to 95.75 lower RH . . . (see figure 66 for detail breakdown)	1	--80
	159-31008	. FRAME ASSEMBLY, Pilot's console RH aft	1	--80
-44	159-31008-7	. . PIN, Hinge	1	--80
-45	159-31008-5	. . HINGE, Half	1	--80
-46	159-31008-3	. . HINGE, Half	1	--80
-47	159-31675	. . PANEL ASSY, Pilot's console RH aft sub-instrument	1	--80
-48	159-54247	. . . PLATE, Ignition switch indicator	1	--80
	159-51112	. . . MOUNT ASSY, Pilot's console RH aft main inst panel sup.	1	--80
-49	AN8C08D10	. . . . INSULATOR	1	--80
-50	159-318107	. FITTING ASSY, Cockpit encl Fus sta 1-5 opening cable end . .	1	--80
-51	4B18-3-64	. . BUSHING, Shoulder (North American)	16	--80
-52	NAS220-8	. SCREW, Brazier head Phillips recess alloy steel 8-32	1	4-80
-53	159-31088-2	. FAIRING ASSY, Fus sta 136.5 to 168 speed brake well	1	4-80
-54	159-10002-2	. FILLET ASSEMBLY, Wing to fuselage upper aft	1	4-80
	BW1-6-27-12	. . WEATHERSEAL (North American)	1	--80
	159-31118-2	. BULKHEAD ASSEMBLY, Fuselage station 95 3/4 lower	1	--80
-55	159-31201	. . ANGLE, Fus sta 95.75 bhd to lower longeron attaching . . .	1	4-80
	159-31265-2	. FRAME ASSY, Fus sta 131.437 fitting wing rear spar attaching.	1	4-80
	159-31128-2	. . CHANNEL ASSEMBLY, Fuselage turnover truss aft	1	4-80
-56	159-31266-2	. . . FILLER, Fuselage sta 108 1/2 turnover truss cap	1	--80
-57	159-31148	. . FITTING, Fuselage sta 131.437 wing rear spar attaching . .	1	--80
	159-31145-2	. . SUPPORT ASSY, Instrument panel upper stabilizer rear . . .	1	--80
-58	AN8C08D6	. . . INSULATOR	1	--80
	159-31199	. . FRAME ASSY, Fus sta 125 RH side canted	1	--80
-59	159-54242	. . . SUPPORT ASSY, Ignition switch	1	4-80
-60	4B20B6-010	. . . . BUSHING, Press fit flanged (North American)	1	4-80
	159-31124-2	. INTERCOSTAL ASSY, Fus sta 136.5 to sta 168 RH	1	4-80
-61	159-311170-11	. . SEAL, Fuselage baggage door molded	Ref	
-62	159-31150	FITTING, Fuselage station -9.5 firewall and upper longeron . . . hoist (see figure 66)		

FUSELAGE (Cont)

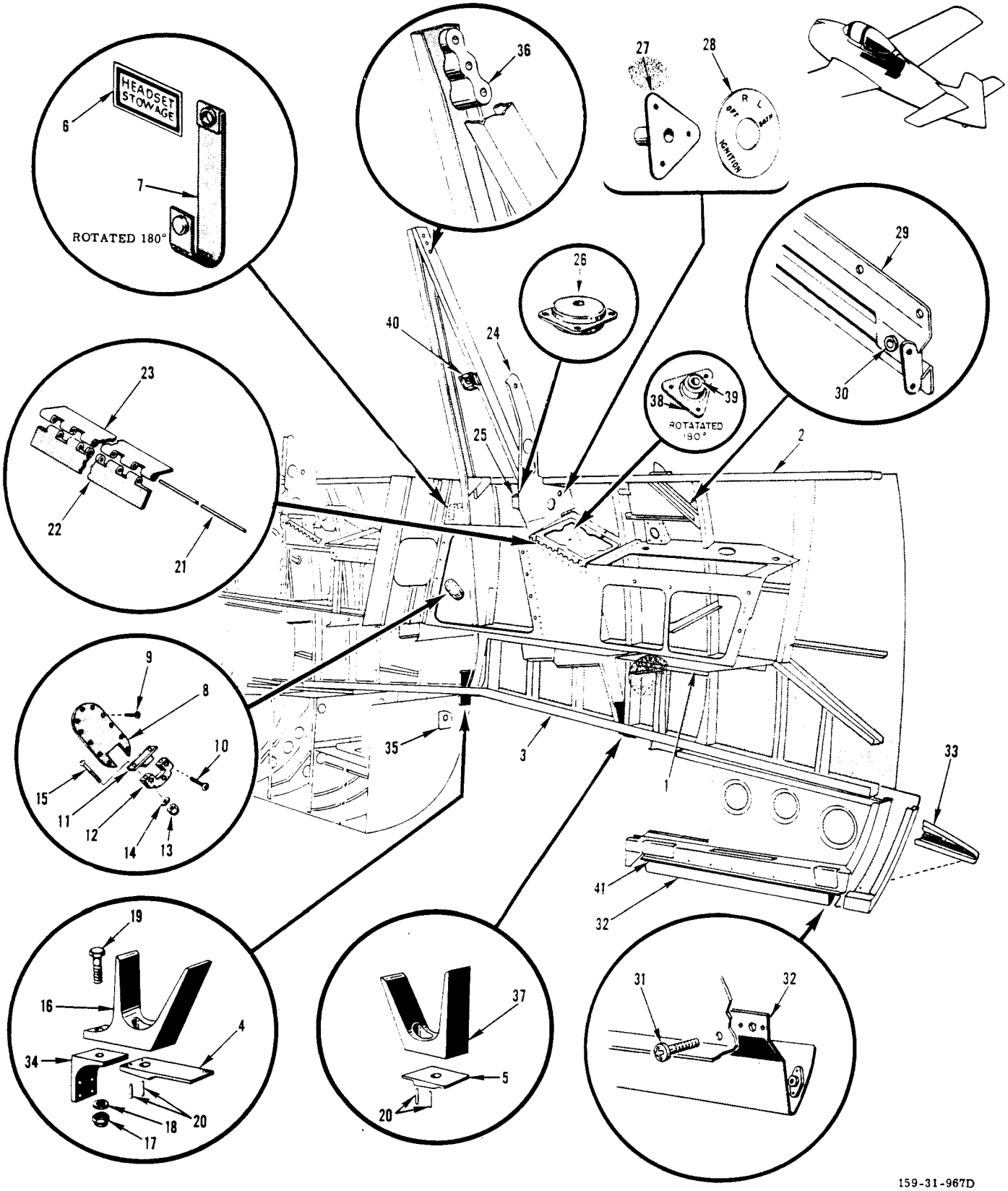


FIGURE 61 - FUSELAGE STATION +9.5 TO 164 SIDE RH PANEL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
60	159-31105	PANEL ASSEMBLY, Fus sta +9.5 to 164 side RH (see Fig. 62 for next assembly)	Ref	
	174-31105	PANEL ASSEMBLY, Fus sta +9.5 to 164 side RH (see Fig. 62 for next assembly)	Ref	
	No Number	. FUSELAGE STATION +9 1/2 to 95 1/2 RH SIDE PANEL EQUIPMENT (see Figure 61 for detail breakdown)	NP	81-

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
60-1	159-31784-101	FLOOR ASSY, Fus cockpit RH side (see fig. 67 for breakdown)	1	81-268
	159-31784-151	FLOOR ASSY, Fus cockpit RH side (see fig. 67 for breakdown)	1	269-393 494-693
	159-31784-201	FLOOR ASSY, Fus cockpit RH side (see fig. 67 for breakdown)	1	394-493
	159-31784-251	FLOOR ASSY, Fus cockpit RH side (see fig. 67 for breakdown)	1	694-
-2	159-31121	LONGERON ASSEMBLY, Fuselage sta 49 1/2 to 168 forward upper RH (see figure 68 for detail breakdown)	1	81-693
	159-31121-50	LONGERON ASSEMBLY, Fuselage sta 49 1/2 to 168 forward upper RH (see figure 68 for detail breakdown)	1	694-
-3	159-31123	LONGERON ASSEMBLY, Fuselage sta 49.5 to 168 fwd lower RH	1	81-393
	159-31123-101	LONGERON ASSEMBLY, Fuselage sta 49.5 to 168 fwd lower RH	1	394-
-4	159-31181-2	. PAD, Fuselage station 98.625 to wing front spar	1	81-
-5	159-31185-2	. PAD, Fuselage station 131.437 to wing rear spar	1	81-
	159-31264-102	FRAME ASSY, Fus sta 98.625 fitting wing front spar attaching	1	81-268
	159-31264-152	FRAME ASSY, Fus sta 98.625 fitting wing front spar attaching	1	269-693
	174-31264-2	FRAME ASSY, Fus sta 98.625 fitting wing front spar attach RH	1	694-843
	174-31264-52	FRAME ASSY, Fus sta 98.625 fitting wing front spar attach RH	1	844-
	159-31125-101	. BULKHEAD ASSEMBLY, Fuselage sta 103.726 RH canted	1	81-268
	159-31125-151	. BULKHEAD ASSEMBLY, Fuselage sta 103.726 RH canted	1	269-693
	174-31125	. BULKHEAD ASSEMBLY, Fuselage sta 103.126 RH canted	1	694-843
	174-31125-51	. BULKHEAD ASSEMBLY, Fuselage sta 103.126 RH canted	1	844-
-6	159-71073	. . DECAL, Headset stowage identification	1	81-
-7	159-71080	. . STRAP ASSEMBLY, Headset and microphone cord stowage	1	81-
-8	159-31125-25	. . DOOR, Fuselage sta 103.726 RH canted bulkhead	1	269-693
	174-31125-15	. . DOOR, Fuselage sta 103.726 RH canted bulkhead	1	694-
-9	NAS221-8	. . SCREW, Brazier head Phillips recess alloy steel 10-32	2	269-
-10	NAS221-21	. . SCREW, Brazier head Phillips recess alloy steel 10-32	2	269-
	171-71044	. . CLAMP ASSEMBLY, Radio cable	1	269-
-11	171-71044-3	. . . PAD, Radio cable clamp	1	269-
-12	171-71043	. . BLOCK, Radio cable clamp	1	269-
-13	AN365-832	. . NUT	2	269-
-14	AN960D8	. . WASHER	2	269-
-15	AN515-8R8	. . SCREW	2	269-
-16	159-311-6	. FITTING, Fus sta 98.625 wing front spar attaching	1	81-
-17	AN365-824	NUT (magnetic inspected)	1	81-
-18	AN960-516	WASHER	1	81-
-19	AN5-13A	BOLT (magnetic inspected)	1	81-
-20	159-311104	PIN, Fuselage lower longeron to spar fitting attaching	4	81-
	159-314108	FRAME ASSEMBLY, Pilot's RH aft console	1	81-268
	159-314108-51	FRAME ASSEMBLY, Pilot's RH aft console	1	269-693
	159-314108-101	FRAME ASSEMBLY, Pilot's RH aft console	1	694-843
	159-314108-151	FRAME ASSEMBLY, Pilot's RH aft console	1	844-
	159-314122	. PANEL ASSEMBLY, RH aft console side	1	81-268
	159-314122-51	. PANEL ASSEMBLY, RH aft console side	1	269-843
	159-314122-101	. PANEL ASSEMBLY, RH aft console side	1	844-
-21	AN253-2-1050	. . PIN.	1	81-
-22	159-314122-11	. . HINGE, RH aft console side panel half	1	81-
-23	159-314122-9	. . HINGE, RH aft console side panel half	1	81-
-24	159-314124	. PANEL ASSEMBLY, RH aft console sub-instrument	1	81-268
	159-314124-51	. PANEL ASSEMBLY, RH aft console sub-instrument	1	269-693
	159-314124-101	. PANEL ASSEMBLY, RH aft console sub-instrument	1	694-
-25	159-51112	. . MOUNT ASSY, Pilot's console RH aft main inst panel sup	1	81-693
	174-51112	. . MOUNT ASSY, Pilot's console RH aft main inst panel sup	1	694-
-26	AN8008D10	. . . INSULATOR	1	81-
	6952L	. . . MOUNT, MET-L-FLEX (Robinson Aviation) (supersedes AN8008D10 for future procurement)	1	744-
-27	159-54248	. . SUPPORT, Ignition switch	1	81-
-28	159-54247	. . . PLATE, Ignition switch indicator	1	81-
-29	159-318107	FITTING ASSY, Cockpit encl fus sta 145 opening cable end	1	81-
-30	4B18-3-64	. BUSHING, Shoulder (North American)	16	81-
-31	NAS220-8	SCREW, Brazier head Phillips recess alloy steel 8-32	1	81-
-32	159-31088-2	FAIRING ASSY, Fus sta 136.5 to 168 speed brake well	1	81-
-33	159-10002-2	FILLET ASSEMBLY, Wing to fuselage upper aft	1	81-
	5W1-6-27-12	. WEATHERSEAL (North American)	1	81-268
	159-31118-2	BULKHEAD ASSEMBLY, Fuselage station 95 3/4 lower	1	269-393
	159-31118-52	BULKHEAD ASSEMBLY, Fuselage station 95 3/4 lower	1	394-
	159-31118-102	BULKHEAD ASSEMBLY, Fuselage station 95 3/4 lower	1	81-
-34	159-31201	. ANGLE, Fus sta 95.75 bhd to lower longn attaching	1	394-
-35	174-31117	. DOOR ASSY, Fuselage sta 95.75 fuel sump tank vent access	1	394-
	174-31117-5	. . SEAL, Fus sta 95.75 fuel sump tank vent access	1	81-693
	159-31265-102	FRAME ASSY, Fus sta 131.437 fitting wing rear spar attaching	1	694-
	174-31265-2	FRAME ASSY, Fus sta 131.437 fitting wing rear spar attach RH	1	81-693
	159-31128-2	. CHANNEL ASSEMBLY, Fuselage turnover truss aft	1	81-693
-36	159-31266-2	. . FILLER, Fuselage sta 108 1/2 turnover truss cap	1	81-
-37	159-31148	. FITTING, Fuselage sta 131.437 wing rear spar attaching	1	81-693
	159-31199	. FRAME ASSY, Fus sta 125 RH side canted	1	694-
	174-31199	. FRAME ASSY, Fus sta 125 RH side canted	1	81-
-38	159-54242	. . SUPPORT ASSY, Ignition switch	1	81-
-39	4B20B6-010	. . . BUSHING, Press fit flanged (North American)	1	81-693
	159-51145-2	. SUPPORT ASSY, Instrument panel upper stabilizer rear	1	81-693
-40	AN8008D6	. . INSULATOR	1	81-
	159-31124-2	INTERCOSTAL ASSY, Fus sta 136.5 to sta 168 RH	1	81-
-41	159-311170-11	. SEAL, Fuselage baggage door molded	1	81-

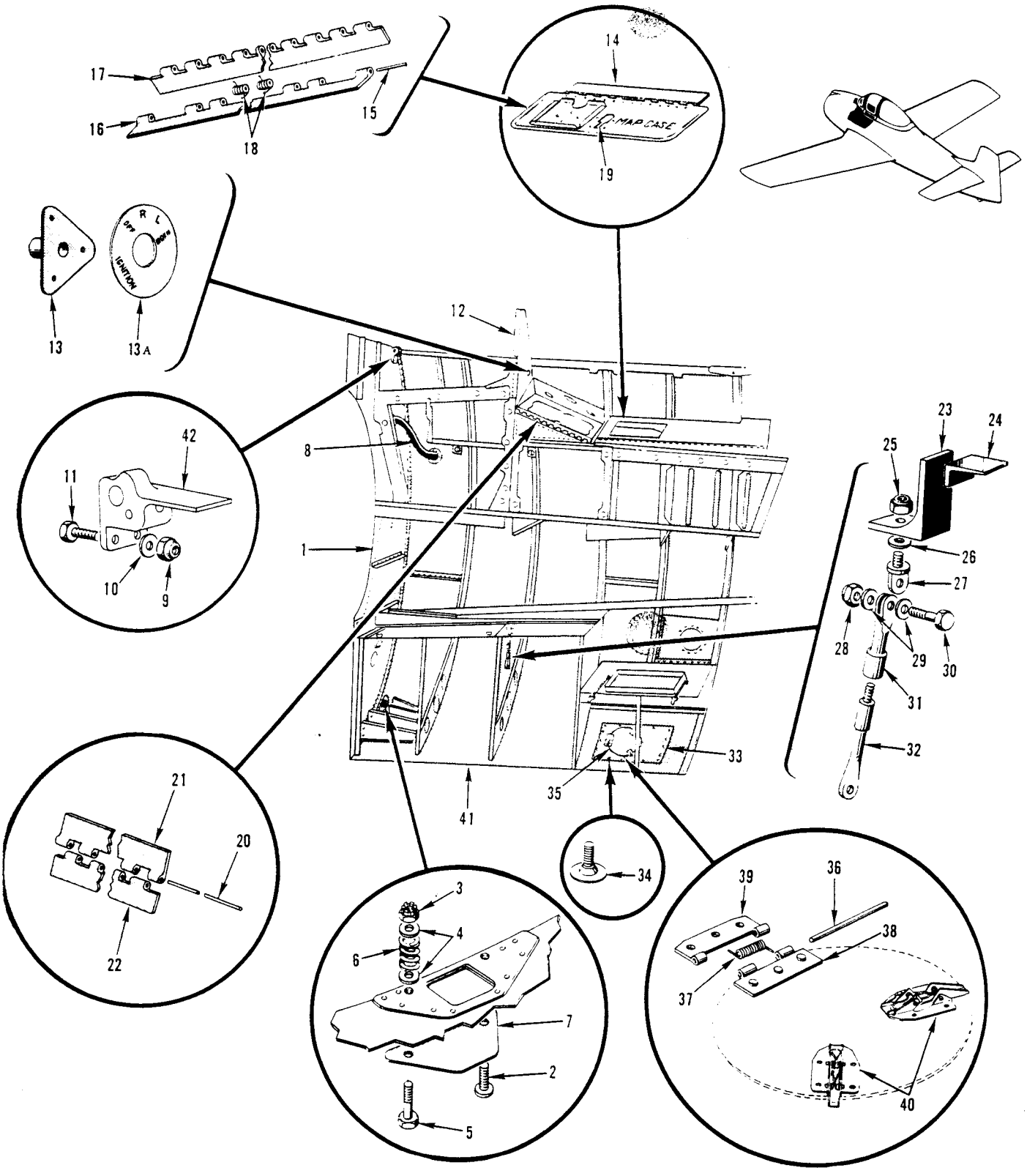


FIGURE 61 - FUSELAGE STATION +9 1/2 TO 85 1/2 RH SIDE PANEL EQUIPMENT

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
61	No Number	FUSELAGE STATION 49 1/2 TO 95 1/2 RH SIDE PANEL EQUIPMENT . . . . (see figure 60 for next assembly)	NP	81-
-1	159-31219-101	. FIREWALL ASSY, Fuselage sta 49.5 RH side . . . . . (see figure 65 for detail breakdown)	1	81-455
	159-31219-151	. FIREWALL ASSY, Fuselage sta 49.5 RH side . . . . . (see figure 65 for detail breakdown)	1	456-
-2	NAS220-9	. SCREW, Brazier head Phillips recess alloy steel 8-32	1	81-
-3	AN320-3	. NUT	1	81-
-4	AN960-10L	. WASHER	2	81-
-5	AN23-12	. BOLT	1	81-
-6	140-68046	. SPRING, Plunger compression	1	81-
-7	159-31017	. PLATE, Fus sta 49 1/2 firewall jacking attach fitting cover .	1	81-
-8	159-47090	. TUBE ASSY, Eng crankcase breather line fus sta 49 1/2	1	81-
-9	AN365-428	. NUT	2	81-
-10	AN960-416	. WASHER	2	81-
-11	AN4-10A	. BOLT (magnetic inspected)	2	81-
	159-314106	. FRAME ASSEMBLY, RH forward console	1	81-268
	159-314106-51	. FRAME ASSEMBLY, RH forward console	1	269-843
	159-314106-101	. FRAME ASSEMBLY, RH forward console	1	844-
-12	159-314112	. . PANEL ASSEMBLY, RH forward console sub-instrument	1	81-268
	159-314112-21	. . PANEL ASSEMBLY, RH forward console sub-instrument	1	269-
-13	159-54248	. . . SUPPORT, Ignition switch	1	81-
-13A	159-54247	. . . PLATE, Ignition switch indicator	1	81-
	159-314111	. . PANEL ASSEMBLY, RH forward console top	1	81-268
	159-314111-51	. . PANEL ASSEMBLY, RH forward console top	1	269-843
	159-314111-101	. . PANEL ASSEMBLY, RH forward console top	1	844-
-14	159-314119	. . . COVER ASSEMBLY, RH forward console map case	1	81-
-15	159-314119-9	. . . . PIN, RH forward console map case cover hinge	1	81-
-16	159-314119-5	. . . . HINGE, RH forward console map case cover half	1	81-
-17	159-314119-7	. . . . HINGE, RH forward console map case cover half	1	81-
-18	146-58211	. . . . SPRING, Hyd emergency exit and canopy valve lock . .	2	81-
-19	H5000-2-051-091	. . . . LATCH, Map case cover (Hartwell Aviation Supply) . .	1	81-
	159-314110	. . PANEL ASSEMBLY, RH forward console side	1	81-268
	159-314110-51	. . PANEL ASSEMBLY, RH forward console side	1	269-843
	159-314110-101	. . PANEL ASSEMBLY, RH forward console side	1	844-
-20	AN253-2-950	. . . PIN	1	81-
-21	159-314110-17	. . . HINGE, RH forward console side panel half	1	81-
-22	159-314110-19	. . . HINGE, RH forward console side panel half	1	81-
	159-31158-11	. FRAME ASSEMBLY, Fuselage station 78 3/8 side RH	1	81-
-23	159-31147	. . FITTING, Fuselage sta 77.625 wing attaching front	1	81-
-24	159-31393	. . ANGLE, Fuselage sta 78.375 to lower intercostal	1	81-
-25	AN365-720	. NUT	1	81-
-26	AN960-716	. WASHER	1	81-
-27	159-311153	. EYEBOLT, Fuselage to wing attaching forward	1	81-
-28	AN310-6	. NUT	1	81-
-29	AN960-616	. WASHER	2	81-
-30	AN6-12	. BOLT, (magnetic inspected)	1	81-
-31	159-31382	. FORK, Fus to wing center section leading edge attaching . . .	1	81-
-32	159-31383	. EYE, Fuselage to wing center section leading edge attaching .	1	81-
-33	174-31012	. DOOR ASSY, Fus sta 79 3/4 to 95 5/8 fuel sump removal	1	394-
		ATTACHING PARTS		
-34	SP1561-832-13	. SCREW ASSEMBLY (Shakeproof)	16	394-
		---*---		
-35	174-31011	. . DOOR ASSY, Fuselage sta 86 1/2 fuel sump access	1	394-
-36	AN253-2-312	. . . PIN	1	394-
-37	174-31130	. . . SPRING, Fuselage sta 80 fuel sump door	1	394-
-38	174-31011-5	. . . HINGE, Fus sta 86 1/2 fuel sump access door half . . . . (altered from AN257XP3-300)	1	394-
-39	174-31011-9	. . . HINGE, Fus sta 86 1/2 fuel sump access door half . . . . (altered from AN257XP3-300)	1	394-
-40	H5000-2-064-102	. . . LATCH (Hartwell Aviation Supply)	2	394-
-41	159-31112	. FRAME ASSY, Fus sta +9.5 to 95.75 lower RH (see figure 66 for detail breakdown)	1	81-268
	159-31112-101	. FRAME ASSY, Fus sta +9.5 to 95.75 lower RH (see figure 66 for detail breakdown)	1	269-393
	159-31112-151	. FRAME ASSY, Fus sta +9.5 to 95.75 lower RH (see figure 66 for detail breakdown)	1	394-396
	159-31112-201	. FRAME ASSY, Fus sta +9.5 to 95.75 lower RH (see figure 66 for detail breakdown)	1	397-693
	159-31112-301	. FRAME ASSY, Fus sta +9.5 to 95.75 lower RH (see figure 66 for detail breakdown)	1	694-
-42	159-31150	FITTING, Fuselage sta +9.5 firewall and upper longeron hoist . . (see figure 68)	Ref	

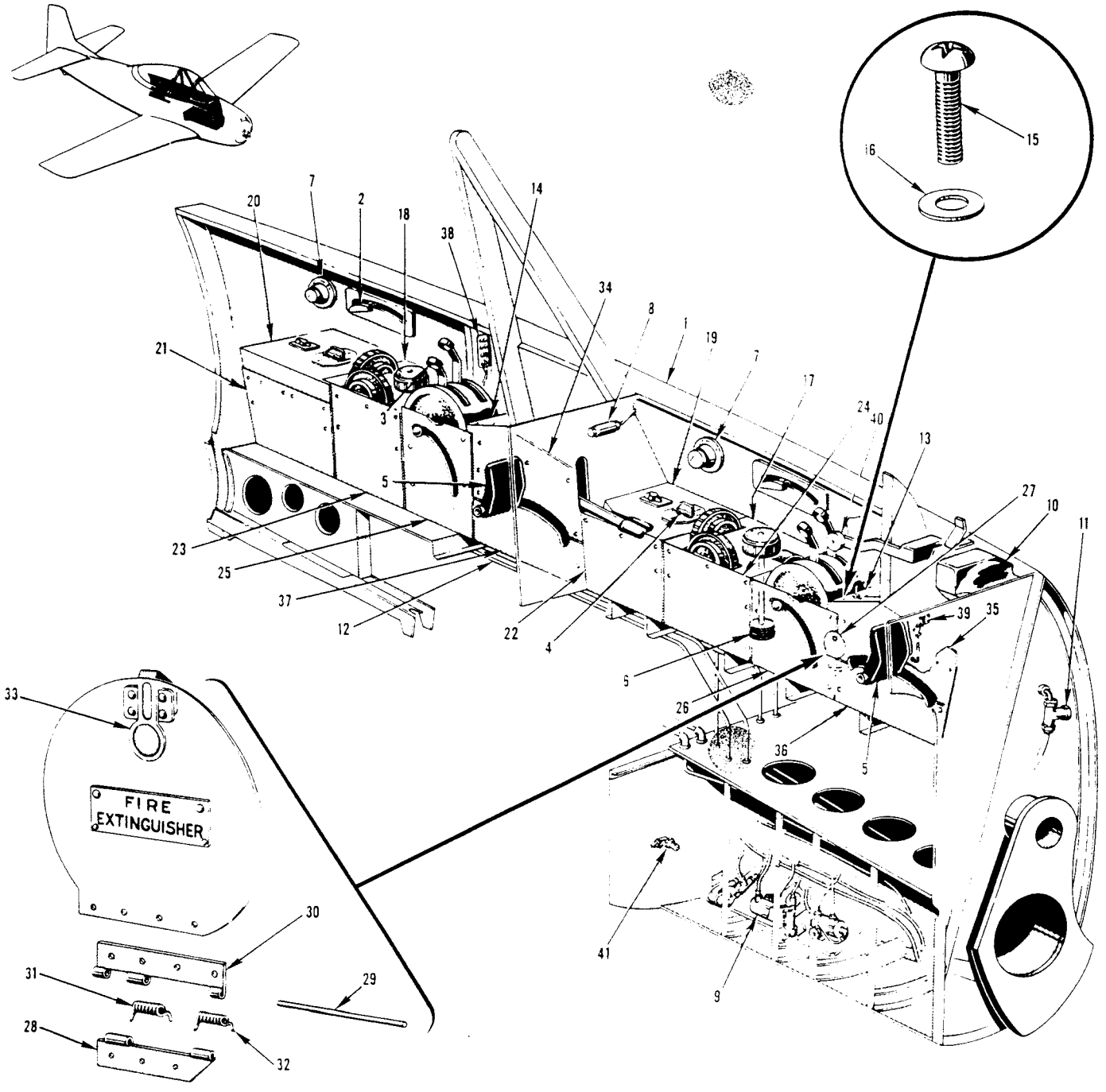


FIGURE 62 - FUSELAGE STATION +49.5 TO 168 LH PANEL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
62	159-31604	PANEL ASSEMBLY, Fuselage station +49.5 to 168 LH complete (see figure 62 for next assembly	Ref	4-693
	174-31604	PANEL ASSEMBLY, Fuselage station +49.5 to 168 LH complete (see figure 62 for next assembly	Ref	694-
-1	159-31104	. PANEL ASSEMBLY, Fuselage station +49.5 to 168 side LH (see figure 63 for detail breakdown	1	4-25
	159-31104-151	. PANEL ASSEMBLY, Fuselage station +49.5 to 168 side LH (see figure 63 for detail breakdown	1	26-80
	159-31104-101	. PANEL ASSEMBLY, Fuselage station +49.5 to 168 side LH (see figure 63 for detail breakdown	1	81-180
	159-31104-201	. PANEL ASSEMBLY, Fuselage station +49.5 to 168 side LH (see figure 63 for detail breakdown	1	181-268
	159-31104-251	. PANEL ASSEMBLY, Fuselage station +49.5 to 168 side LH (see figure 63 for detail breakdown	1	269-393
	174-31104	. PANEL ASSEMBLY, Fuselage sta +49.5 to 168 side LH (see figure 63 for detail breakdown	1	394-693

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
62	174-31114	.	PANEL ASSEMBLY, Fus sta 49.5 to 168 side LH (see fig. 63 for detail breakdown)	1	694-793
	174-31114-151	.	PANEL ASSEMBLY, Fus sta 49.5 to 168 side LH see fig. 63 for detail breakdown)	1	794-843
	174-31114-101	.	PANEL ASSEMBLY, Fus sta 49.5 to 168 side LH (see fig. 63 for detail breakdown)	1	844-
-2	159-31803	.	MECHANISM INSTL, Cockpit canopy controls see figure 74 for detail breakdown)	NP	
-3	159-43031	.	ENGINE CONTROL EQUIPMENT INSTL, Fuselage LH side panel (see figure 330 for detail breakdown)	NP	
-4	159-48169	.	FUEL SYSTEM EQUIPMENT INSTL, Selector valve control see figure 95 for detail breakdown)	NP	
-5	159-52-74	.	CONTROLS INSTALLATION, Rudder pedal left side (see figure 111 for detail breakdown)	NP	
-6	159-52570	.	DRUM INSTL, Elevator and rudder trim fuselage station 37 to 166 see figure 108 for detail breakdown)	NP	
-7	159-53305	.	HEAT AND VENT SYSTEM EQUIPMENT INSTL, Fuselage station 49.5 to 168 LH see figure 191 for detail breakdown	NP	
-8	159-54030	.	ELECTRICAL EQUIPMENT INSTL, Fuselage station 49 1/2 to 168 LH side see figure 152 for detail breakdown)	NP	4-30
	159-54530	.	ELECTRICAL EQUIPMENT INSTL, Fuselage station 49 1/2 to 168 LH side see figure 152 for detail breakdown)	NP	31-268
	171-54030	.	ELECTRICAL EQUIPMENT INSTL, Fuselage station 49 1/2 to 168 LH side (see figure 152 for detail breakdown)	NP	269-393
	174-54030	.	ELECTRICAL EQUIPMENT INSTL, Fuselage station 49 1/2 to 168 LH side (see figure 152 for detail breakdown)	NP	394-
-9	159-58008	.	HYD EQUIP. INSTL, LH lower Fus sta 49 1/2 to 97.5 (see fig. 121, 124, 130, 138, 139, & 142 for breakdown)	NP	4-140
	159-58005	.	HYD EQUIP. INSTL, LH lower Fus sta 49 1/2 to 97.5 (see fig. 122, 124, 130, 138, 139 & 142 for breakdown)	NP	141-
-10	159-58014	.	HYD EQUIP. INSTL, Fus sta 49.5 firewall see figure 121, 122, 139, 141 and 1-2 for detail breakdown)	NP	
-11	159-58016	.	HYD EQUIP. INSTL, Engine section station 28 1/2 to station 49 1/2 see figure 250 for detail breakdown)	NP	
-12	159-58017	.	HYD EQUIP. INSTL, Fus sta 49.5 to sta 168 LH side (see fig. 116, 119, 121, 130, 131, 136, 137, 141, & 142 for detail breakdown	NP	
-13	159-31429	.	PANEL ASSEMBLY, Console forward canted instrument support left (see figure 104 for detail breakdown)	1	
-14	159-31431	.	PANEL ASSEMBLY, Console aft canted instrument support left (see figure 11- for detail breakdown)	1	
	ATTACHING PARTS FOR ABOVE TWO PANELS				
-15	AN515-8R7	.	SCREW	8	
-16	AN960D8L	.	WASHER	8	
	---*---				
-17	159-52501	.	PANEL ASSEMBLY, Trim tab control mechanism forward (see figure 115 for detail breakdown	1	
-18	159-52502	.	PANEL ASSEMBLY, Trim tab control mechanism aft (see figure 115 for detail breakdown)	1	
-19	159-31441	.	COVER ASSY, Console fwd fus sta 90 27/32 to 104 3/4 left top.	1	4-393
	159-31441-20	.	COVER ASSY, Console fwd fus sta 90 27/32 to 104 3/4 left top.	1	394-543
	159-31441-50	.	COVER ASSY, Console aft fus sta 90 27/32 to 104 3/4 left top.	1	544-
-20	159-31795	.	COVER ASSY, Console aft fus sta 143 15/16 to 157 29/32 left top	1	4-393
	159-31795-20	.	COVER ASSY, Console aft fus sta 143 15/16 to 157 29/32 left top	1	394-593
	159-31795-50	.	COVER ASSY, Console aft fus sta 143 15/16 to 157 29/32 left top	1	594-
-21	159-31442	.	COVER ASSY, Console aft fus sta 143 15/16 to 157 29/32 left side	1	
-22	159-31442-10	.	COVER ASSY, Console fwd fus sta 90 27/32 to 104 3/4 left side	1	
-23	159-31443	.	COVER ASSY, Console aft fus sta 134 15/32 to 143 15/16 left	1	
-24	159-31443-10	.	COVER ASSY, Console fwd fus sta 81 11/32 to 90 13/16 left	1	
-25	159-31444	.	COVER ASSY, Console aft fus sta 122 9/32 to 134 7/16 left side	1	
-26	159-31445	.	COVER ASSY, Console fwd fus sta 69 5/32 to 81 5/16 side left.	1	
-27	159-31439	. .	DOOR ASSY, Forward console fire extinguisher access	1	
-28	159-31439-5	. . .	HINGE, Forward console fire extinguisner access half	1	
-29	159-31439-9	. . .	PIN, Forward console fire extinguisner access hinge	1	
-30	159-31439-7	. . .	HINGE, Forward console fire extinguisher access half.	1	
-31	146-58211	. . .	SPRING, Hydraulic emergency exit & canopy valve lock	1	
-32	159-13351-11	. . .	SPRING, WCS door opening (supersedes 159-13351 which is not OK for replacement on any airplanes and is to be scrapped when replacement is necessary)	1	
-33	H5000-2-040-072	. . .	LATCH, Door (Hartwell Aviation Supply)	1	
-34	159-31446	.	COVER ASSY, Console aft fus sta 102 5/8 to 122 5/16 side left	1	
-35	159-31447	.	COVER ASSY, Console fwd fus sta 49 1/2 to 69 3/16 side left	1	
-36	159-31448	.	COVER ASSY, Fwd console fus sta 52 1/2 to 69 3/16 side left	1	
-37	159-31449	.	COVER ASSY, Aft console fus sta 103 5/32 to 122 5/16 side left	1	
-38	159-71231	.	RADIO EQUIP. INSTL, Fus sta 49 1/2 to 168 LH side (see fig. 178, 179 and 180 for detail breakdown)	NP	4-843
	174-71231	.	RADIO EQUIP. INSTL, Fus sta 49 1/2 to 168 LH (see figure 181A for detail breakdown)	NP	844-
-39	159-43130	.	LOCK INSTL, Eng control throttle (see fig. 105 for breakdown)	NP	
-40	159-33016	.	ALIGHTING GEAR CONTROL SYSTEM INSTL, LH side panel (see figure 209 for detail breakdown)	NP	
-41	174-48033	.	FUEL SYSTEM EQUIPMENT INSTL, Fuselage LH side panel (see figure 92 for detail breakdown)	NP	694-

FUSELAGE (Cont)

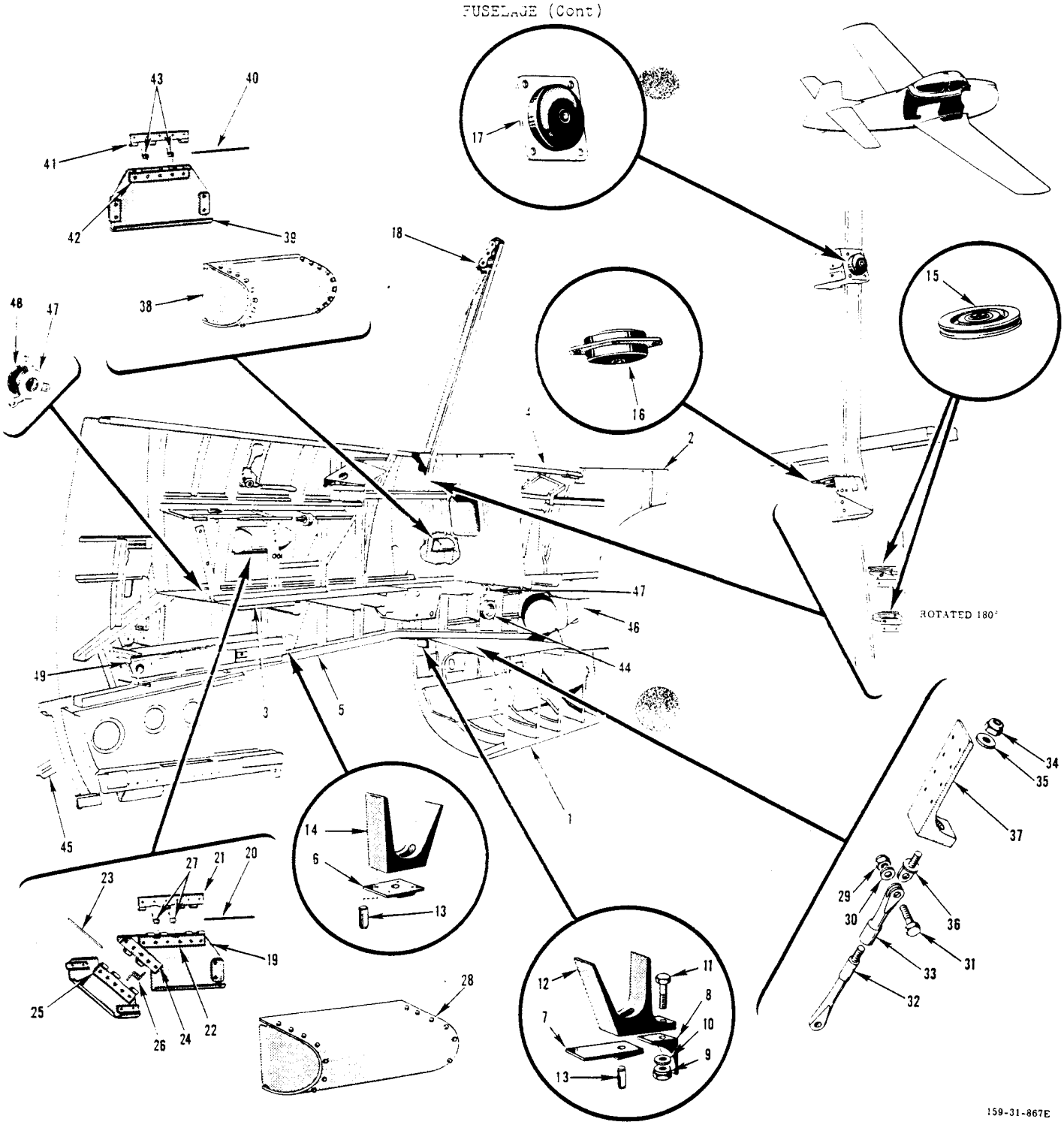


FIGURE 63 - FUSELAGE STATION +9.5 TO 168 LEFT SIDE PANEL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
63	159-31104	PANEL ASSEMBLY, Fuselage station +9.5 to 168 left side (see figure 62 for next assembly)	Ref	4-25
	159-31104-151	PANEL ASSEMBLY, Fuselage sta +9.5 to 168 left side (see fig. 62).	Ref	26-80
	159-31104-151	PANEL ASSEMBLY, Fuselage sta +9.5 to 168 left side (see fig. 62).	Ref	81-180
	159-31104-201	PANEL ASSEMBLY, Fuselage sta +9.5 to 168 left side (see fig. 62).	Ref	181-268
	159-31104-251	PANEL ASSEMBLY, Fuselage sta +9.5 to 168 left side (see fig. 62).	Ref	269-393
	174-31104	PANEL ASSEMBLY, Fuselage sta +9.5 to 168 side LH (see fig. 62).	Ref	394-693
	174-31104	PANEL ASSEMBLY, Fuselage sta +9.5 to 168 side LH (see fig. 62).	Ref	694-793
	174-31104-151	PANEL ASSEMBLY, Fuselage sta +9.5 to 168 side LH (see fig. 62).	Ref	794-843
	174-31104-151	PANEL ASSEMBLY, Fuselage sta +9.5 to 168 side LH (see fig. 62).	Ref	844-
	No Number	. FUSELAGE STATION +9.5 TO 168 LEFT SIDE PANEL ASSEMBLY (CONT) (see figure 64 for detail breakdown)	NP	
-1	159-31111	. FRAME ASSEMBLY, Fuselage station 49.5 to 97.5 lower LH (see figure 66 for detail breakdown)	1	4-693

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
63	159-31111-51	.	FRAME ASSEMBLY, Fuselage station 49.5 to 97.5 lower LH . . . . (see figure 66 for detail breakdown)	1	694-
-2	159-31119	.	FIREWALL ASSY, Fus sta 49.5 LH side (see fig. 65 for breakdown)	1	4-25
	159-31119-101	.	FIREWALL ASSY, Fus sta 49.5 LH side (see fig. 65 for breakdown)	1	26-
-3	159-31783	.	FLOOR ASSY, Fus cockpit left side (see fig. 67 for breakdown).	1	4-268
	159-31783-101	.	FLOOR ASSY, Fus cockpit left side (see fig. 67 for breakdown).	1	269-393
	159-31783-151	.	FLOOR ASSY, Fus cockpit left side (see fig. 67 for breakdown).	1	394-693
	159-31783-201	.	FLOOR ASSY, Fus cockpit left side (see fig. 67 for breakdown).	1	694-843
	159-31783-251	.	FLOOR ASSY, Fus cockpit left side (see fig. 67 for breakdown).	1	844-
-4	159-31120	.	LONGERON ASSY, Fuselage station 49 1/2 to 168 forward upper LH (see figure 68 for detail breakdown)	1	4-693
	159-31120-50	.	LONGERON ASSY, Fuselage station 49 1/2 to 168 forward upper LH (see figure 68 for detail breakdown)	1	694-
-5	159-31122	.	LONGERON ASSEMBLY, Fus sta 49.5 to 168 forward lower LH . . .	1	
-6	159-31125-1	.	. PAD, Fuselage sta 131.437 to wing rear spar LH	1	
-7	159-31131-1	.	. PAD, Fuselage sta 98.625 to wing front spar LH	1	
	159-31118-1	.	BULKHEAD ASSEMBLY, Fuselage sta 95 3/4 lower LH	1	4-393
	159-31118-101	.	BULKHEAD ASSEMBLY, Fuselage sta 95 3/4 lower LH	1	394-
-8	159-31201	.	. ANGLE, Fuselage sta 95.75 bhd to lower longn attaching . .	1	
-9	AN365-524	.	NUT (magnetic inspected)	1	
-10	AN960-516	.	WASHER	1	
-11	AN5-13A	.	BOLT (magnetic inspected)	1	
	159-31264-1	.	FRAME ASSY, Fus sta 98.625 fitting wing front spar attaching .	1	4-693
	174-31264-1	.	FRAME ASSY, Fus sta 98.625 fitting wing front spar attaching . (superseded by 174-31264-101)	1	694-
	174-31264-101	.	FRAME ASSY, Fus sta 98.625 fitting wing front spar attaching . (supersedes 174-31264-1)	1	694-
-12	159-31146	.	. FITTING, Fus sta 98.625 wing front spar attaching	1	
-13	159-311104	.	PIN, Fuselage lower longeron to spar fitting attaching	1	
	159-31265-1	.	FRAME ASSY, Fus sta 131.437 fitting wing rear spar attach LH .	1	4-180
	159-31265-101	.	FRAME ASSY, Fus sta 131.437 fitting wing rear spar attach LH .	1	181-693
	174-31265-1	.	FRAME ASSY, Fus sta 131.437 fitting wing rear spar attach LH .	1	694-
-14	159-31148	.	. FITTING, Fuselage sta 131.437 wing rear spar attaching . .	1	
	159-31174	.	. FRAME ASSY, Fuselage sta 125 LH side canted	1	4-693
	174-31174	.	. FRAME ASSY, Fus sta 125 LH side canted	1	694-
	159-52552	.	. . BRACKET ASSY, Elev trim tab cable pulley fus sta 121 7/8	1	
	159-52553	.	. . BRACKET ASSY, Elev trim tab cable pulley fus sta 122 27/32	1	
-15	AN210-1A	.	. . . PULLEY	1	
	159-31680	.	. BRACKET ASSY, Console aft instrument panel support left . .	1	4-180
	159-314130	.	. BRACKET ASSY, Console aft instrument panel left support . .	1	181-693
	174-51151	.	. SUPPORT ASSEMBLY, Aft instrument panel LH	1	694-
-16	AN8008D10	.	. . INSULATOR	1	
	6952L	.	. . MOUNT (Robinson Aviation)(supersedes AN8008D10 for future procurement) . . .	1	744-
	159-51145-1	.	. SUPPORT ASSY, Instrument panel upper stabilizer rear . . .	1	4-693
-17	AN8008D6	.	. . INSULATOR	1	4-693
	159-31128-1	.	. CHANNEL ASSY, Fuselage turnover truss aft LH	1	4-693
-18	159-31266-1	.	. . FILLER, Fuselage sta 108 1/2 turnover truss cap LH	1	4-693
-19	159-31136	.	DOOR ASSEMBLY, Fuselage aft step	1	
-20	AN253-2-475	.	. PIN	1	
-21	159-31136-9	.	. HINGE, Fuselage aft step half	1	
-22	159-31136-7	.	. HINGE, Fuselage aft step half	1	
-23	AN253-2-275	.	. PIN	1	
-24	159-31136-19	.	. HINGE, Fuselage aft step half	1	
-25	159-31136-21	.	. HINGE, Fuselage aft step half	1	
-26	146-42541	.	. SPRING, Engine compartment fire exiting door tension . . .	1	
-27	159-311132	.	. SPRING, Fuselage step door	2	
-28	159-31096	.	CUP ASSEMBLY, Fuselage aft step	1	
-29	AN310-6	.	NUT	1	
-30	AN960-616	.	WASHER	2	
-31	AN6-12	.	BOLT (magnetic inspected)	1	
-32	159-31383	.	EYE, Fus to wing center section leading edge attaching	1	
-33	159-31382	.	FORK, Fus to wing center section leading edge attaching . . .	1	
-34	AN365-720	.	NUT	1	
-35	AN960-716	.	WASHER	1	
-36	159-311153	.	EYE BOLT, Fuselage to wing attaching forward	1	
	159-31157	.	FRAME ASSEMBLY, Fuselage sta 78 3/8 side LH	1	
-37	159-31147	.	. FITTING, Fuselage sta 77.625 wing attaching front	1	
-38	159-31098	.	CUP ASSEMBLY, Fuselage forward step	1	
-39	159-31014	.	DOOR ASSEMBLY, Fuselage forward cockpit step	1	
-40	AN253-3-375	.	. PIN	1	
-41	159-31014-9	.	. HINGE, Fuselage forward cockpit step half	1	
-42	159-31014-11	.	. HINGE, Fuselage forward cockpit step half	1	
-43	159-311132	.	. SPRING, Fuselage step door	2	
-44	159-53368	.	SHROUD ASSEMBLY, Heat & vent sys heater exhuast duct outlet .	1	
-45	159-10002-1	.	FILLET ASSEMBLY, Wing to fuselage upper aft LH	1	
	5W1-6-27-12	.	. WEATHERSEAL (North American)	1	
-46	159-53400	.	DUCT ASSY, Heat and vent cockpit heater attaching fwd complete	1	
-47	174-61080	.	DOOR ASSY, Target aligning sight fus sta 69 19/32 and 145 27/32 access	2	794-
-48	174-61080-5	.	. SEAL, Target aligning sight fus sta 69 19/32 and 145 27/32 access	1	794-
-49	159-31616	.	SUPPORT ASSY, Fus sta 161.689 flap cyl rear	1	4-80
	159-311151	.	SUPPORT ASSY, Fus sta 161.689 flap cyl rear	1	81-

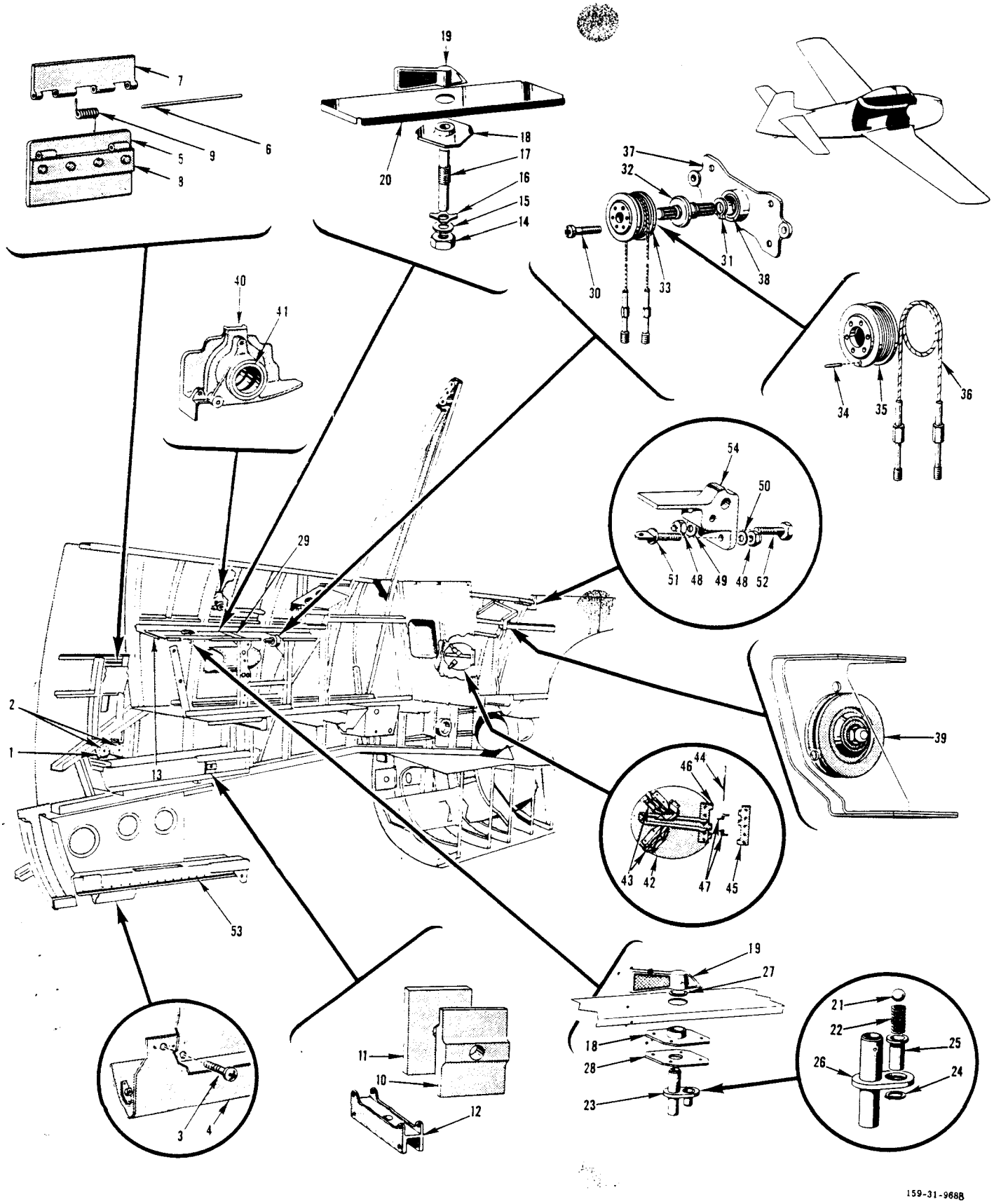


FIGURE 64 - FUSELAGE STATION 49.8 TO 168 LEFT SIDE PANEL ASSEMBLY

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
63	159-31111-51	.	FRAME ASSEMBLY, Fuselage station 49.5 to 97.5 lower LH . . . . (see figure 66 for detail breakdown)	1	694-
-2	159-31119	.	FIREWALL ASSY, Fus sta 49.5 LH side (see fig. 65 for breakdown)	1	4-25
	159-31119-101	.	FIREWALL ASSY, Fus sta 49.5 LH side (see fig. 65 for breakdown)	1	26-
-3	159-31783	.	FLOOR ASSY, Fus cockpit left side (see fig. 67 for breakdown).	1	4-268
	159-31783-101	.	FLOOR ASSY, Fus cockpit left side (see fig. 67 for breakdown).	1	269-393
	159-31783-151	.	FLOOR ASSY, Fus cockpit left side (see fig. 67 for breakdown).	1	394-693
	159-31783-201	.	FLOOR ASSY, Fus cockpit left side (see fig. 67 for breakdown).	1	694-843
	159-31783-251	.	FLOOR ASSY, Fus cockpit left side (see fig. 67 for breakdown).	1	844-
-4	159-31120	.	LONGERON ASSY, Fuselage station 49 1/2 to 168 forward upper . LH (see figure 68 for detail breakdown)	1	4-693
	159-31120-50	.	LONGERON ASSY, Fuselage station 49 1/2 to 168 forward upper . LH (see figure 68 for detail breakdown)	1	694-
-5	159-31122	.	LONGERON ASSEMBLY, Fus sta 49.5 to 168 forward lower LH . . .	1	
-6	159-31135-1	.	. PAD, Fuselage sta 131.437 to wing rear spar LH	1	
-7	159-31131-1	.	. PAD, Fuselage sta 98.625 to wing front spar LH	1	
	159-31118-1	.	BULKHEAD ASSEMBLY, Fuselage sta 95 3/4 lower LH	1	4-393
	159-31118-101	.	BULKHEAD ASSEMBLY, Fuselage sta 95 3/4 lower LH	1	394-
-8	159-31201	.	. ANGLE, Fuselage sta 95.75 bhd to lower longn attaching . .	1	
-9	AN365-52-	.	NUT (magnetic inspected)	1	
-10	AN960-516	.	WASHER	1	
-11	AN5-13A	.	BOLT (magnetic inspected)	1	
	159-31264-1	.	FRAME ASSY, Fus sta 98.625 fitting wing front spar attaching .	1	4-693
	174-31264-1	.	FRAME ASSY, Fus sta 98.625 fitting wing front spar attaching . (superseded by 174-31264-101)	1	694-
	174-31264-101	.	FRAME ASSY, Fus sta 98.625 fitting wing front spar attaching . (supersedes 174-31264-1)	1	694-
-12	159-311-6	.	. FITTING, Fus sta 98.625 wing front spar attaching	1	
-13	159-311104	.	PIN, Fuselage lower longeron to spar fitting attaching	-	
	159-31265-1	.	FRAME ASSY, Fus sta 131.437 fitting wing rear spar attach LH .	1	4-180
	159-31265-101	.	FRAME ASSY, Fus sta 131.437 fitting wing rear spar attach LH .	1	181-693
	174-31265-1	.	FRAME ASSY, Fus sta 131.437 fitting wing rear spar attach LH .	1	694-
-14	159-311-8	.	. FITTING, Fuselage sta 131.437 wing rear spar attaching . .	1	
	159-31174	.	. FRAME ASSY, Fuselage sta 125 LH side canted	1	4-693
	174-31174	.	. FRAME ASSY, Fus sta 125 LH side canted	1	694-
	159-52552	.	. . BRACKET ASSY, Elev trim tab cable pulley fus sta 121 7/8	1	
	159-52553	.	. . BRACKET ASSY, Elev trim tab cable pulley fus sta 122 27/32	1	
-15	AN210-1A	.	. . . PULLEY	1	
	159-31680	.	. BRACKET ASSY, Console aft instrument panel support left . .	1	4-180
	159-314130	.	. BRACKET ASSY, Console aft instrument panel left support . .	1	181-693
	174-51151	.	. SUPPORT ASSEMBLY, Aft instrument panel LH	1	694-
-16	AN8008D10	.	. . INSULATOR	1	
	6952L	.	. . MOUNT (Robinson Aviation)(supersedes AN8008D10 for . . . future procurement)	1	744-
	159-51145-1	.	. SUPPORT ASSY, Instrument panel upper stabilizer rear . . .	1	4-693
-17	AN8008D6	.	. . INSULATOR	1	4-693
	159-31128-1	.	. CHANNEL ASSY, Fuselage turnover truss aft LH	1	4-693
-18	159-31266-1	.	. . FILLER, Fuselage sta 108 1/2 turnover truss cap LH	1	4-693
-19	159-31136	.	DOOR ASSEMBLY, Fuselage aft step	1	
-20	AN253-2-475	.	. PIN	1	
-21	159-31136-9	.	. HINGE, Fuselage aft step half	1	
-22	159-31136-7	.	. HINGE, Fuselage aft step half	1	
-23	AN253-2-275	.	. PIN	1	
-24	159-31136-19	.	. HINGE, Fuselage aft step half	1	
-25	159-31136-21	.	. HINGE, Fuselage aft step half	1	
-26	146-42541	.	. SPRING, Engine compartment fire exiting door tension . . .	1	
-27	159-311132	.	. SPRING, Fuselage step door	2	
-28	159-31096	.	CUP ASSEMBLY, Fuselage aft step	1	
-29	AN310-6	.	NUT	1	
-30	AN960-616	.	WASHER	2	
-31	AN6-12	.	BOLT (magnetic inspected)	1	
-32	159-31383	.	EYE, Fus to wing center section leading edge attaching	1	
-33	159-31382	.	FORK, Fus to wing center section leading edge attaching . . .	1	
-34	AN365-720	.	NUT	1	
-35	AN960-716	.	WASHER	1	
-36	159-311153	.	EYE BOLT, Fuselage to wing attaching forward	1	
	159-31157	.	FRAME ASSEMBLY, Fuselage sta 78 3/8 side LH	1	
-37	159-31147	.	. FITTING, Fuselage sta 77.625 wing attaching front	1	
-38	159-31098	.	CUP ASSEMBLY, Fuselage forward step	1	
-39	159-31014	.	DOOR ASSEMBLY, Fuselage forward cockpit step	1	
-40	AN253-3-375	.	. PIN	1	
-41	159-31014-9	.	. HINGE, Fuselage forward cockpit step half	1	
-42	159-31014-11	.	. HINGE, Fuselage forward cockpit step half	1	
-43	159-311132	.	. SPRING, Fuselage step door	2	
-44	159-53368	.	SHROUD ASSEMBLY, Heat & vent sys heater exhuast duct outlet .	1	
-45	159-10002-1	.	FILLET ASSEMBLY, Wing to fuselage upper aft LH	1	
	5W1-6-27-12	.	. WEATHERSEAL (North American)	1	
-46	159-53400	.	DUCT ASSY, Heat and vent cockpit heater attaching fwd complete	1	
-47	174-61080	.	DOOR ASSY, Target aligning sight fus sta 69 19/32 and . . . . 145 27/32 access	2	794-
-48	174-61080-5	.	. SEAL, Target aligning sight fus sta 69 19/32 and . . . . . 145 27/32 access	1	794-
-49	159-31616	.	SUPPORT ASSY, Fus sta 161.689 flap cyl rear	1	4-80
	159-311151	.	SUPPORT ASSY, Fus sta 161.689 flap cyl rear	1	81-

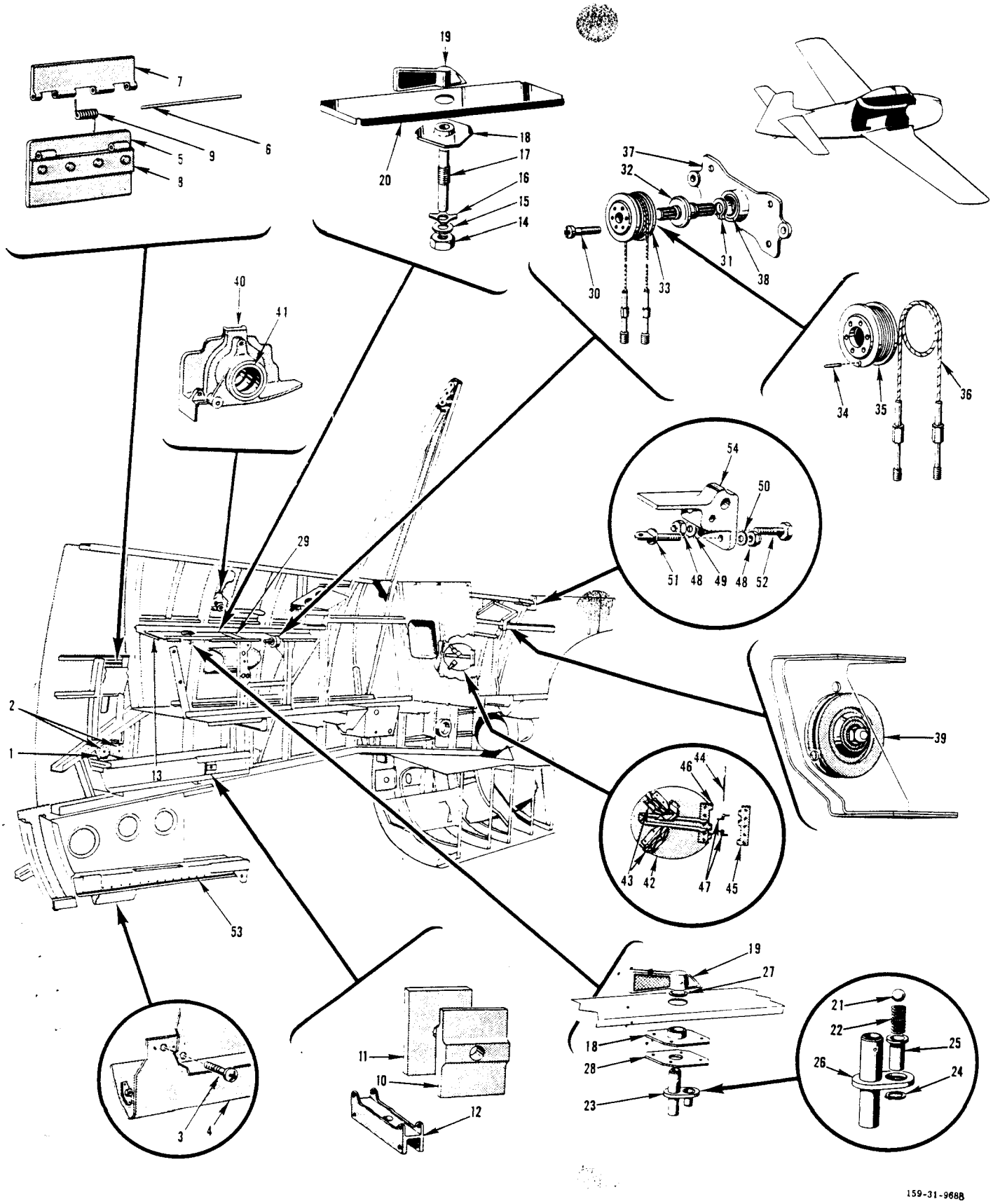


FIGURE 64 - FUSELAGE STATION 49.5 TO 168 LEFT SIDE PANEL ASSEMBLY

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
64	No Number	FUSELAGE STATION -9.5 TO 168 LEFT SIDE PANEL ASSEMBLY . . . . . (continued) (see figure 63 for next assembly)	NP	
	159-31226	. INTERCOSTAL ASSY, Fuselage sta 155 7/32 to 168 LH canted . . .	1	
-1	159-18233	. . BRACKET ASSEMBLY, Flap by-pass and unlock control fuselage. station 159 21/32 pulley	1	
-2	AN210-2A	. . . PULLEY	2	
-3	MAS220-6	. SCREW, Brazier head Phillips recess alloy steel 6-32	16	
	MAS220-9	. SCREW, Brazier head Phillips recess alloy steel 6-32	5	
-4	159-31088-1	. FAIRING ASSY, Fus sta 136.5 to 168 speed brake well LH	1	
-5	159-18250	. DOOR ASSEMBLY, Flap by-pass handle access	1	
-6	159-18250-9	. . PIN, Flap by-pass handle access door hinge	1	
-7	159-18250-5	. . HINGE, Flap by-pass handle access door half	1	
-8	159-18250-7	. . HINGE, Flap by-pass handle access door half	1	
-9	146-2541	. . SPRING, Eng compt fire exting door tension	1	
	159-31615	. CHANNEL ASSY, Fuselage sta 136 to 160 flap cylinder	1	4-80
	159-311148	. CHANNEL ASSY, Fuselage sta 136 to 160 flap cylinder	1	81-
-10	159-31612	. . FITTING, Fuselage sta 142.9 flap fitting support outer . .	2	--80
	159-311149	. . FITTING, Fuselage sta 142.9 flap fitting support	2	81-
-11	159-31614	. . FITTING, Fuselage sta 142.9 flap fitting support	2	--80
-12	159-18132	. . BRACKET, Flap operating mechanism up stop support	1	
	159-31009	. FRAME ASSEMBLY, Console aft cockpit LH	1	--80
	159-31007	. FRAME ASSEMBLY, Console forward cockpit LH	1	--80
	159-314107	. FRAME ASSEMBLY, LH forward console	1	81-
	159-314109	. FRAME ASSEMBLY, LH aft console	1	81-
-13	159-31456-10	. . CHANNEL ASSEMBLY, Console aft rear left	1	--80
	159-31-56	. . CHANNEL ASSEMBLY, Console forward rear left	1	--80
	159-31-131	. . SUPPORT ASSEMBLY, LH front console top (superseded by . . . 159-31-131-10. 159-314131 may be used interchangeably with 159-314131-10 until stock is exhausted)	1	81-
	159-31-131-10	. . SUPPORT ASSEMBLY, LH front console top (supersedes . . . . 159-31-131 for future procurement)	1	81-
	159-31-132	. . SUPPORT ASSEMBLY, LH rear console top	1	81-
-14	AN320-6	. . . NUT (used on 159-31-131)	1	
-15	2W1AL25-40-64	. . . WASHER, Plain (North American) (used on 159-31-131) . .	1	
-16	159-53432-10	. . . SPRING, Heat and vent system outlet handle positioning . (used on 159-314131)	1	
-17	159-53579	. . . FITTING, Heat and vent system emergency control handle . (used on 159-314131)	1	
-18	159-53582	. . . BEARING, Heat and vent system shut-off control rod . . .	1	
-19	159-53577	. . . HANDLE, Heat and vent system shut-off control . . . . . (supersedes 159-53580)	1	
-20	159-31455	. . . CHANNEL ASSEMBLY, Console aft rear left	1	--80
	159-31455-10	. . . CHANNEL ASSEMBLY, Console forward rear left	1	--80
-21	Comm	. . . BALL, 1/4 Diameter (Strom Steel Ball Co) (used on . . . 159-31-131-10)	1	81-
-22	174-53581	. . . SPRING, Compression (used on 159-314131-10)	1	81-
-23	174-53580	. . . DETENT ASSY, Heat & vent sys emer control handle complete (used on 159-314131-10)	1	81-
-24	MAS51-37	. . . . RING, External retainer	1	81-
-25	159-42224	. . . . BOSS, Carburetor air valve detent	1	81-
-26	174-53579	. . . . DETENT ASSY, Heat and vent sys emer control handle .	1	81-
-27	2W1023-20-20	. . . WASHER, Plain (North American) (used on 159-314131-10) .	1	81-
-28	174-53582	. . . PLATE ASSY, Heat and vent system shut-off control rod . detent (used on 159-314131-10)	1	81-
-29	159-31427	. . CHANNEL ASSY, Aft console control quadrant support left . .	1	
-30	AN501A10-6	. . . SCREW	3	
-31	MAS51-50	. . . RING, External retainer	1	
-32	159-52529	. . . SHAFT, Aileron trim tab control drum	1	
-33	159-52563	. . . DRUM ASSY, Aileron trim control cable inboard	1	
-34	2P5-6	. . . . PIN, Locking (North American)	1	
-35	3D1	. . . . DRUM, Cable (North American) (supersedes 102-52509) .	1	
-36	159-52519	. . . . CABLE ASSY, Aileron trim tab outboard control	1	
-37	159-52542	. . . SUPPORT ASSY, Trim tab control cockpit drum	1	
-38	AN201K8A	. . . . BEARING	1	
	159-52423	. . BRACKET ASSY, Rud pedal adjustment pulley WP 5 forward . .	1	
-39	AN210-1A	. . . PULLEY	1	
-40	159-318474-3	. SUPPORT ASSEMBLY, Cockpit enclosure control aft handle mech .	1	
-41	159-318176	. . BEARING, Cockpit enclosure control handle mechanism	2	
-42	159-31013	. DOOR ASSY, Fus sta 63 1/2 fire extinguisher access	1	4-843
-43	H5000-2-040-091	. . LATCH (Hartwell Aviation Supply)	2	4-843
-44	159-31013-11	. . PIN, Fus sta 63 1/2 fire extinguisher access hinge	1	--843
-45	159-31013-7	. . HINGE, Fus sta 63 1/2 fire extinguisher access half	1	--843
-46	159-31013-9	. . HINGE, Fus sta 63 1/2 fire extinguisher access half	1	--843
-47	146-58211	. . SPRING, Hydraulic emergency exit and canopy valve lock . .	2	--843
-48	AN365-428	. NUT	2	
-49	AN960-416	. WASHER	1	
-50	AN960C416L	. WASHER	AR	
-51	AN43-7A	. BOLT (magnetic inspected)	1	
-52	AN4-10A	. BOLT (magnetic inspected)	1	
	159-31124-1	. INTERCOSTAL ASSY, Fus sta 136.5 to sta 168 LH	1	
-53	159-311170-11	. . SEAL, Fus baggage door molded	1	
-54	159-31150	FITTING, Fus sta 49.5 firewall & upper longn hoist (see fig. 68).	Ref	

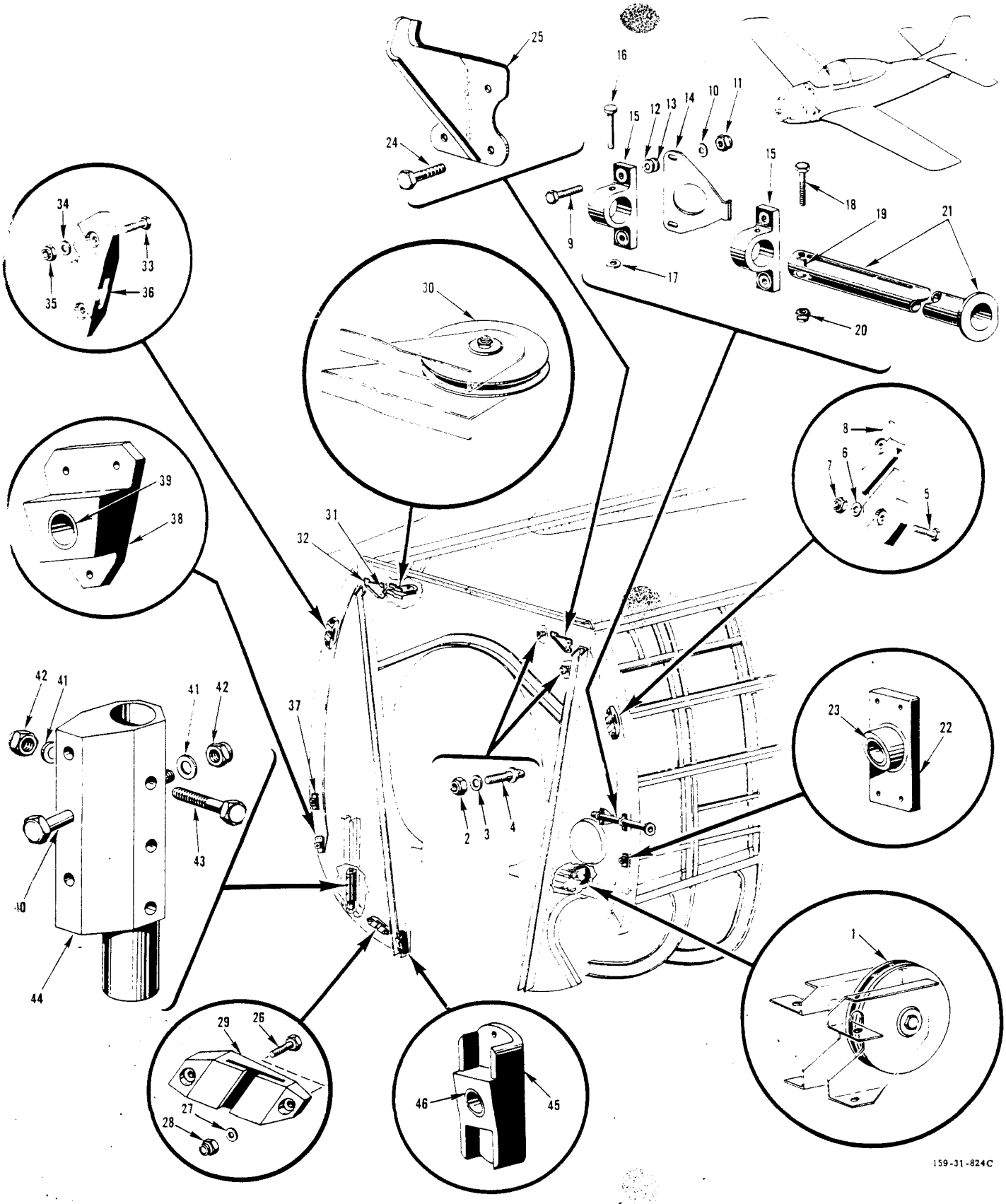


FIGURE 65 - COMPLETE LH AND RH FIREWALL ASSEMBLIES

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
55		COMPLETE LH AND RH FIREWALL ASSEMBLIES		
	159-31119	. FIREWALL ASSY, Fus sta 49.5 LH side (see fig. 63 for next assembly)	Ref	4-25
	159-31119-101	. FIREWALL ASSY, Fus sta 49.5 LH side (see fig. 63 for next assembly)	Ref	26-
	159-58262	. . BRACKET ASSY, Hydraulic parking brake valve control station 49 1/2 lower pulley	1	4-25
	159-58422	. . BRACKET ASSY, Hydraulic parking brake valve control station 49 1/2 lower pulley	1	26-
-1	AN210-2A	. . . PULLEY	1	
-2	AN365-428	. . NUT	2	
-3	AN960-416	. . WASHER	2	
-4	AN43-4A	. . BOLT	2	
-5	AN4-10A	. . BOLT	2	4-25
	159-311161-1	. . CLIP ASSY, Fus sta 49.5 upper intercostal to firewall attaching LH	1	26-
	159-311162-1	. . CLIP ASSY, Fus sta 49.5 intermediate intercostal to firewall attaching LH	1	26-
-6	AN960-416	. . WASHER	2	
-7	AN365-428	. . NUT	2	
-8	159-315218-3	. . BRACKET, Engine cowl latch firewall attaching side	1	--25
	159-315227-1	. . BRACKET, Engine cowl latch firewall attaching side	1	26-
-9	AN4-7A	. . BOLT	4	
-10	AN960-416	. . WASHER	4	
-11	AN365-428	. . NUT	4	
-12	AN960-10	. . WASHER	2	
-13	AN960-10L	. . WASHER	2	
-14	159-31792	. . SPRING, Fuselage station 49.5 step retainer	1	
-15	159-31793	. . FITTING, Fuselage station 49.5 step support	2	
-16	AN392-11	. . PIN	1	
-17	AN960-8	. . WASHER	1	
-18	AN3-12	. . BOLT	1	
-19	483-10-26	. . SPACER, Bolt (North American)	1	
-20	AN310-3	. . NUT	1	
-21	159-31791	. . TUBE ASSY, Fuselage station 49.5 step	1	
-22	159-315408	. . SUPPORT ASSY, Engine upper side cowl firewall lower	1	
-23	159-315420-3	. . . BUSHING, Engine cowling firewall support (supersedes 4B20S9-012)	1	
-24	AN4-5A	. . BOLT	4	
-25	159-31904	. . HOOK ASSEMBLY, Engine mount to firewall	1	
	159-31219	. FIREWALL ASSEMBLY, Fuselage station 49.5 RH side (see figure 59 for next assembly)	Ref	--25
	159-31219-101	. FIREWALL ASSEMBLY, Fuselage station 49.5 RH side (see figures 59 and 61 for next assembly)	Ref	26--55
	159-31219-151	. FIREWALL ASSEMBLY, Fuselage station 49.5 RH side (see figure 61 for next assembly)	Ref	-56-
-26	AN4-7A	. . BOLT	2	4-25
	159-311163	. . CLIP ASSY, Fus sta 49.5 lower RH intercostal to firewall attaching	2	26-
-27	AN960D416	. . WASHER	2	
-28	AN365-428	. . NUT	2	
-29	159-315219	. . BRACKET, Engine cowl latch firewall attaching lower	1	4-25
	159-315286	. . BRACKET, Engine cowl latch firewall attaching lower	1	26-
	159-58258	. . BRACKET ASSY, Hyd park brake valve control pulley	1	
-30	AN210-2A	. . . PULLEY	1	
-31	AN4-5A	. . BOLT	4	
-32	159-31904	. . HOOK ASSEMBLY, Engine mount to firewall	1	
-33	AN4-10A	. . BOLT	2	4-25
	159-311161-2	. . CLIP ASSY, Fuselage station 49.5 upper intercostal to firewall attaching RH	1	26-
	159-311162-2	. . CLIP ASSY, Fuselage station 49.5 intermediate intercostal to firewall attaching RH	1	26-
-34	AN960D416	. . WASHER (4 used on 26 and subs)	2	4-25
-35	AN365-428	. . NUT (4 used on 26 and subs)	2	4-25
-36	159-315218-4	. . BRACKET, Engine cowl latch firewall attaching side	1	4-25
	159-315227-2	. . BRACKET, Engine cowl latch firewall attaching side	1	26-
-37	159-315408	. . SUPPORT ASSY, Engine upper side cowl firewall lower	1	
	159-315420-3	. . . BUSHING, Engine cowling firewall support (supersedes 4B20S9-012)	1	
-38	159-315526	. . SUPPORT ASSY, Engine lower RH cowl firewall upper	1	
-39	159-315420-7	. . . BUSHING, Engine cowling firewall support (supersedes 4B20S9-019)	1	
-40	AN4-21A	. . BOLT	3	
-41	AN960D416	. . WASHER	6	
-42	AN365-428	. . NUT	6	
-43	AN4-15A	. . BOLT	3	
-44	159-55007	. . FITTING, Fuselage sta 49.5 firewall jacking attaching	1	
-45	159-315525	. . SUPPORT ASSY, Engine lower RH cowl firewall lower	1	
-46	159-315420-7	. . . BUSHING, Engine cowling firewall support (supersedes 4B20S9-019)	1	

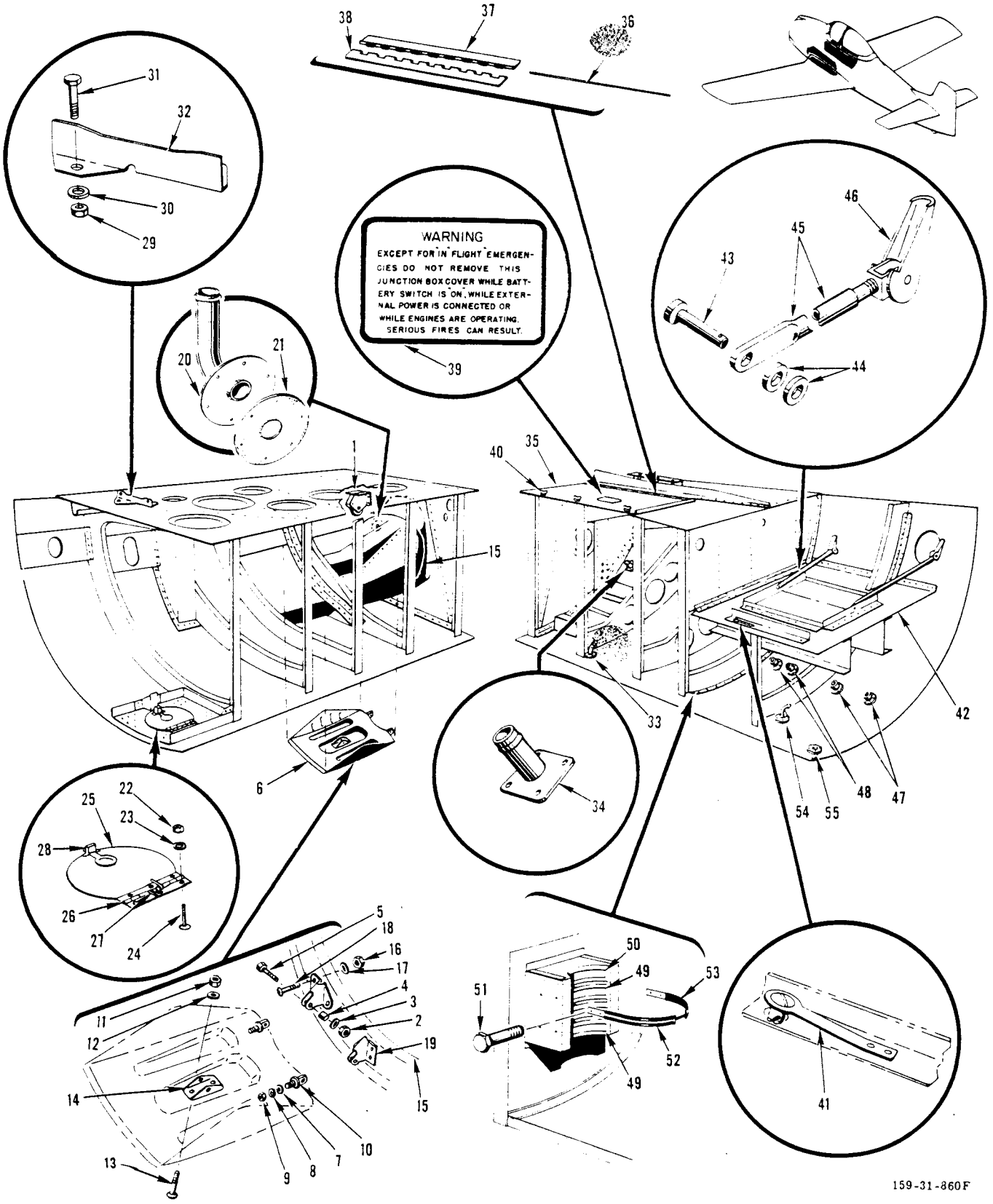


FIGURE 66 - FUSELAGE STATION 48.6 TO 87.75 LOWER FRAME ASSEMBLIES

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
66		FUSELAGE STATION 49.5 TO 97.75 LOWER FRAME ASSEMBLIES		
	159-31111	. FRAME ASSEMBLY, Fuselage station 49.5 to 97.5 lower LH (see figure 63 for next assembly)	Ref	4-693
	159-31111-51	. FRAME ASSEMBLY, Fuselage station 49.5 to 97.5 lower LH (see figure 63 for next assembly)	Ref	694-
	159-58218	. . BRACKET ASSEMBLY, Hydraulic parking brake valve control fuselage station 59.125 pulley	1	4-40
-1	AN210-2A	. . . PULLEY	1	4-40
-2	AN310-4	. . NUT	2	
-3	AN960D416	. . WASHER	4	
-4	4B21S4-13	. . BUSHING, Spacer (North American)	2	
-5	AN4-10	. . BOLT	2	
-6	159--7117-35	. . DOOR ASSEMBLY, Oil cooler air duct exit (supersedes 159-47117)	1	
-7	2W1-24-20-40	. . . WASHER, Plain (North American)	2	
-8	AN960C516	. . . WASHER	2	
-9	AN365-524	. . . NUT	2	
-10	171--7122	. . . BOLT, Oil cooler air duct exit door eye	2	
-11	AN365-428	. . . NUT	2	
-12	AN960-416	. . . WASHER	2	
-13	NAS222-10	. . . SCREW, Brazier head Phillips recess alloy steel 1/4-28	2	
-14	159--7131	. . . BRACKET, Oil cooler air exit door actuator (supersedes 159-47123)	1	
-15	159--7111	. . DUCT ASSEMBLY, Oil cooler aft exit complete	1	
-16	AN365-428	. . . NUT	6	
-17	AN960-416	. . . WASHER	6	
-18	NAS222-10	. . . SCREW, Brazier head Phillips recess alloy steel 1/4-28	6	
-19	159--7116-1	. . . HINGE, Oil cooler air duct exit door fuselage LH	1	
	159--7116-2	. . . HINGE, Oil cooler air duct exit door fuselage RH	1	
	159--7110	. . . DUCT ASSEMBLY, Oil cooler aft exit	1	
-20	159--7030	. . . . TUBE ASSEMBLY, Oil tank scupper drain	1	
-21	159--7038	. . . . GASKET, Oil tank scupper drain tube	1	
-22	AN365-1032	. . NUT	3	
-23	AN960-10	. . WASHER	3	
-24	NAS221-9	. . SCREW, Brazier head Phillips recess alloy steel 10-32	3	
-25	159--8059	. . DOOR ASSEMBLY, Fuel strainer fuselage access	1	
-26	159--8059-13	. . . HINGE ASSEMBLY, Fuel strainer fuselage access door	1	
-27	146--2541	. . . . SPRING, Engine compartment fire exting door tension	1	
-28	KM610-32	. . . LATCH ASSEMBLY (Camloc Fastener)	1	
-29	AN365-1032	. . NUT	2	
-30	AN960-10	. . WASHER	2	
-31	AN3--A	. . BOLT	2	
-32	159-53343	. . SUPPORT, Heat and vent system main distributing duct lower.	1	
	159-31112	. FRAME ASSEMBLY, Fuselage station 49.5 to 97.75 lower RH (see figure 59 & 61 for next assembly)	Ref	--268
	159-31112-101	. FRAME ASSEMBLY, Fuselage station 49.5 to 97.75 lower RH (see figure 61 for next assembly)	Ref	269-393
	159-31112-151	. FRAME ASSEMBLY, Fuselage station 49.5 to 97.75 lower RH (see figure 61 for next assembly)	Ref	394-396
	159-31112-201	. FRAME ASSEMBLY, Fuselage station 49.5 to 97.75 lower RH (see figure 61 for next assembly)	Ref	397-693
	159-31112-301	. FRAME ASSEMBLY, Fuselage station 49.5 to 97.75 lower RH (see figure 61 for next assembly)	Ref	694-
-33	159-54205	. . TUBE ASSEMBLY, Electrical forward battery vent inlet	1	4-268
-34	159-51012	. . TUBE ASSEMBLY, Anti - "G" valve overboard	1	
-35	159-31401	. . DOOR ASSEMBLY, Fuselage lower RH horizontal web	1	
-36	AN253-3-1675	. . . PIN	1	
-37	159-31401-7	. . . HINGE, Fus lower RH horizontal web door half	1	
-38	159-31401-5	. . . HINGE, Fuselage lower RH horizontal web door half	1	
-39	151-54094	. . . DECAL, Junction box cover warning	1	
-40	AW6 1/2-40	. . . STUD (Dzus Fastener)	3	
	GA6 1/2-375	. . . GROMMET (Dzus Fastener)	3	
	159-54212	. . ANGLE ASSEMBLY, Battery lock	1	4-268
-41	149-31799	. . . SPRING ASSEMBLY, Tray radar nacelle	1	4-268
-42	159-54210	. . RETAINER ASSEMBLY, Fuselage station 79 27/32 to 95 1/2 battery	1	4-268
-43	AN393-17	. . . PIN	2	4-268
-44	AN960D10	. . . WASHER	4	4-268
-45	159-54211	. . . ROD ASSEMBLY, Electrical battery hold-down	2	4-268
-46	AN3156-3	. . . . CLAMP	1	4-268
-47	3F2-4	. . FITTING, Bulkhead union (North American)	2	4-393
-48	3F2--	. . FITTING, Bulkhead union (North American)	2	394-
	174-31140	. . FRAME ASSY, Fus sta 79.75 lower RH side	1	394-
	174--8101	. . . SUPPORT ASSY, Fus fuel sump tank	1	394-
-49	174--8101-7	. . . . PAD, Fuselage fuel sump tank support	2	394-
-50	174--8101-9	. . . . PAD, Fuselage fuel sump tank support	1	394-
-51	AN3-4A	. . . . BOLT	8	394-
-52	15191-10	. . . . STRAP ASSEMBLY, (Marman Products)	2	394-
-53	15191-12	. . . . STRAP ASSEMBLY, (Marman Products)	2	394-
-54	174--8171	. . TUBE ASSY, Fus fuel sump tank pump seal drain	1	394-
-55	174-31194	. . TUBE, Fuselage sta 94 1/4 fuel sump tank bay vent	1	394-

FUSELAGE (Cont)

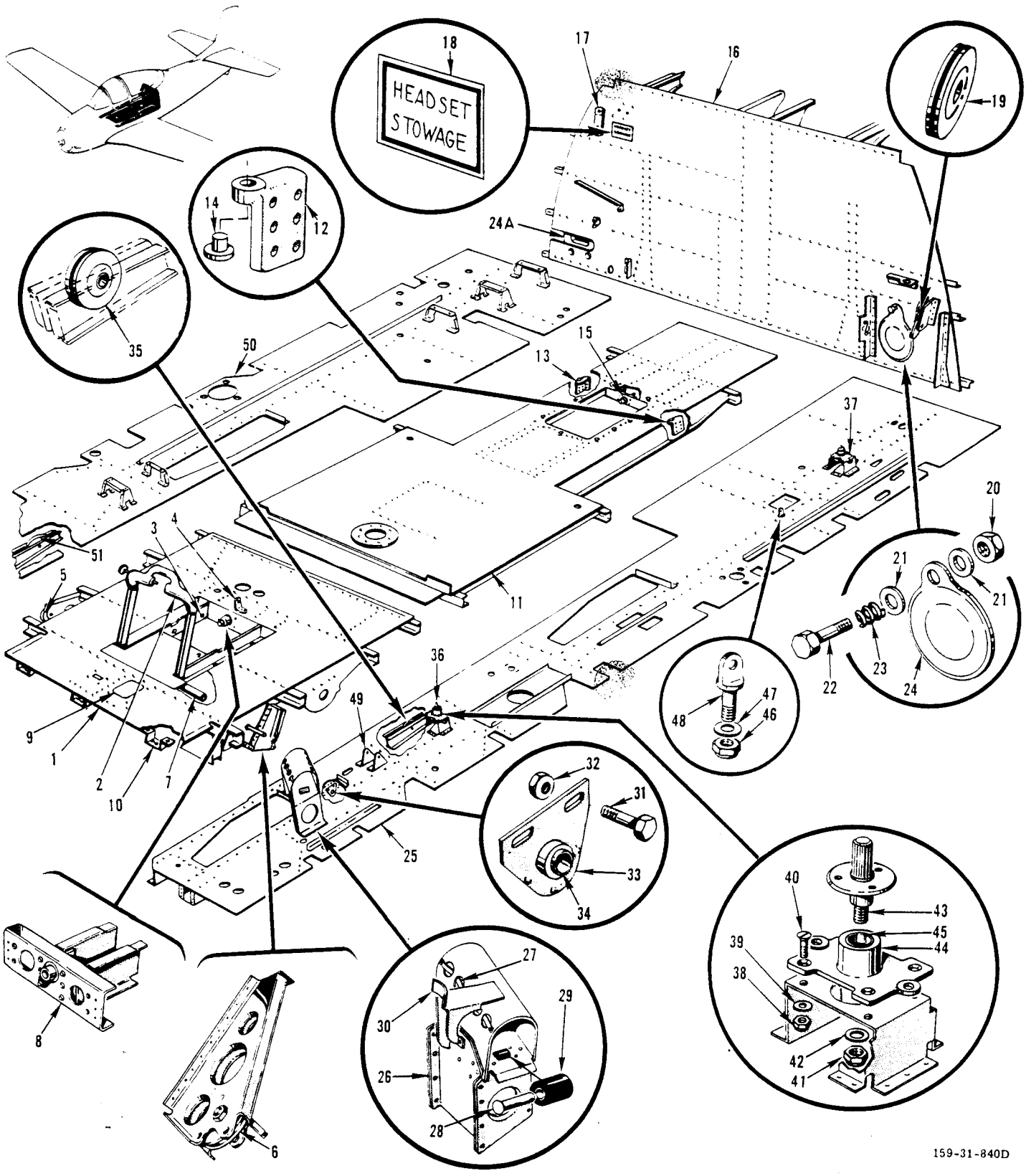


FIGURE 67 - FUSELAGE FLOORS AND STATION 156.855 CANTED REAR BULKHEAD

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
67		FUSELAGE FLOORS AND STATION 156.855 CANTED REAR BULKHEAD		
-1	159-31785	. FLOOR ASSY, Fus cockpit fwd center (see fig. 52 for next assy)	Ref	4-60
	159-31785-51	. FLOOR ASSY, Fus cockpit fwd center (see fig. 52 for next assy)	Ref	61-82
	159-31785-101	. FLOOR ASSY, Fus cockpit fwd center (see fig. 52 for next assy)	Ref	83-268
	159-31785-151	. FLOOR ASSY, Fus cockpit fwd center (see figures 52 and. . . . 53 for next assembly)	Ref	269-

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
67-2	159-52005	. . MECHANISM ASSY, Rudder and aileron interconnect control lock (see fig. 110 for detail breakdown) .	1	4-60
	159-52005-10	. . MECHANISM ASSY, Rudder and aileron interconnect control lock (see fig. 110 for detail breakdown) .	1	61-82
	159-52010	. . MECHANISM ASSY, Control lock rudder and aileron interconnect (see fig. 113 for detail breakdown) . .	1	83-
	ATTACHING PARTS			
-3	AN3-4A	. . BOLT	5	4-82
	AN3-4A ---*---	. . BOLT	12	83-
-4	159-52024	. . LATCH, Control lock handle downlock	1	
	159-52418	. . BRACKET ASSY, Rudder bus forward pulley RH	1	
-5	AN210-4A	. . . PULLEY	1	
	159-52492	. . BRACKET ASSY, Rudder bus cable LH forward	1	83-
-6	AN210-4A	. . . PULLEY	1	83-
-7	159-43140	. . TUBE, Throttle lock actuating torque	1	83-
-8	159-52120	. . SUPPORT ASSEMBLY, Control stick fuselage station 83 . . .	1	83-
-9	159-31281	. . PLATE ASSEMBLY, Fuselage floor arm panel cover	1	
-10	159-31276	. . RETAINER ASSEMBLY, Fuselage floor door stud	3	
-11	159-31786	. FLOOR ASSY, Fus cockpit rear center (see fig. 52 for next assy)	Ref	4-693
	159-31786-50	. FLOOR ASSY, Fus cockpit rear center (see fig. 53 for next assy)	Ref	694-
-12	159-52112	. . STOP ASSEMBLY, Aileron control stick LH	1	
-13	159-52123	. . STOP ASSEMBLY, Aileron control stick RH	1	
-14	1P7	. . . PLUG, Control stop (North American)	1	
	159-52121	. . SUPPORT ASSEMBLY, Control stick fuselage station 140 . . .	1	
-15	159-52111	. . . SUPPORT, Aileron control stick torque tube	1	
-16	159-31116	. BULKHEAD ASSEMBLY, Fuselage station 156.855 canted rear (see figure 52 for next assembly) . . .	Ref	4-80
	159-31116-101	. BULKHEAD ASSEMBLY, Fuselage station 156.855 canted rear (see figure 52 for next assembly) . . .	Ref	81-160
	159-31116-201	. BULKHEAD ASSEMBLY, Fuselage station 156.855 canted rear (see figure 52 for next assembly) . . .	Ref	161-268
	159-31116-151	. BULKHEAD ASSEMBLY, Fuselage station 156.855 canted rear (see figure 52 and 53 for next assembly) . . .	Ref	269-843
	159-31116-251	. BULKHEAD ASSEMBLY, Fuselage station 156.855 canted rear (see figure 53 for next assembly) . . .	Ref	844-
-17	117-71160	. . STRAP ASSEMBLY, Headset and microphone cord stowage . . .	1	
-18	159-71073	. . DECAL, Headset stowage identification	1	
	159-52551	. . BRACKET ASSY, Elevator trim tab pulley fus sta 155 1/2 . .	1	
-19	AN210-2A	. . . PULLEY	1	
-20	AN310-3	. . NUT	1	
-21	AN960-10L	. . WASHER	2	
-22	AN3-7	. . BOLT	1	
-23	140-68046	. . SPRING, Plunger compression	1	
-24	159-311113	. . COVER, Fuselage station 155 7/32 bulkhead access hole . .	1	
-24A	171-71045	. . CLAMP ASSEMBLY, Radio harness	1	269-
	171-71045-5	. . . PAD, Radio harness clamp	1	269-
-25	159-31783	. FLOOR ASSY, Fus cockpit left side (see fig. 63 for next assy)	Ref	4-268
	159-31783-101	. FLOOR ASSY, Fus cockpit left side (see fig. 63 for next assy)	Ref	269-393
	159-31783-151	. FLOOR ASSY, Fus cockpit left side (see fig. 63 for next assy)	Ref	394-693
	159-31783-201	. FLOOR ASSY, Fus cockpit left side (see fig. 63 for next assy)	Ref	694-843
	159-31783-251	. FLOOR ASSY, Fus cockpit left side (see fig. 63 for next assy)	Ref	844-
-26	159-73510	. . SUPPORT ASSEMBLY, Hand fire extinguisher	1	4-843
	174-73510	. . SUPPORT ASSEMBLY, Hand fire extinguisher	1	844-
-27	159-73511	. . . SPRING, Fire extinguisher support	4	
-28	AN393-33	. . . PIN	2	4-843
-29	159-73512	. . . ROLLER ASSEMBLY, Fire extinguisher support	2	4-843
-30	159-53547	. . . SUPPORT, Heat & vent sys LH defroster valve duct . . .	1	
-31	AN3-4A	. . BOLT	2	
-32	AN365-1032	. . NUT	2	
-33	159-43141	. . SUPPORT ASSEMBLY, Throttle lock tube bearing	1	
-34	BCP4W10	. . . BEARING, Anti-friction bellcrank (Fafnir Bearing) . . .	1	
	159-52428	. . BRACKET ASSEMBLY, Rudder bus aft pulley	1	
-35	AN210-4A	. . . PULLEY	1	
-36	159-52538	. . SUPPORT ASSEMBLY, Rudder trim tab drum (forward)	1	
-37	159-52538-5	. . SUPPORT ASSEMBLY, Rudder trim tab drum (aft)	1	
-38	AN365-1032	. . . NUT	4	
-39	AN960D10	. . . WASHER	4	
-40	AN509-10-10	. . . SCREW	4	
-41	AN365-524	. . . NUT	1	
-42	2W1-20-20-64	. . . WASHER, Plain (North American)	1	
-43	159-52508	. . . SHAFT, Rudder and elevator trim tab control drum . . .	1	
-44	159-52542	. . . SUPPORT ASSEMBLY, Trim tab control cockpit drum	1	
-45	AN201K8A	. . . . BEARING	1	
-46	AN365-1032	. . NUT	1	
-47	AN960D10	. . WASHER	1	
-48	AN42-4	. . BOLT	1	
-49	159-58237	. . SUPPORT, Hydraulic wing flap selector valve bellcrank . .	2	
-50	159-31784	. FLOOR ASSY, Fus cockpit RH side (see fig. 59 for next assy) .	Ref	4-80
	159-31784-101	. FLOOR ASSY, Fus cockpit RH side (see fig. 60 for next assy) .	Ref	81-268
	159-31784-151	. FLOOR ASSY, Fus cockpit RH side (see fig. 60 for next assy) .	Ref	269-393, 494-693
	159-31784-201	. FLOOR ASSY, Fus cockpit RH side (see fig. 60 for next assy) .	Ref	394-493
	159-31784-251	. FLOOR ASSY, Fus cockpit RH side (see fig. 60 for next assy) .	Ref	694-
	159-52428	. . BRACKET ASSEMBLY, Rudder bus aft pulley	1	
-51	AN210-4A	. . . PULLEY	1	

FUSELAGE (Cont)

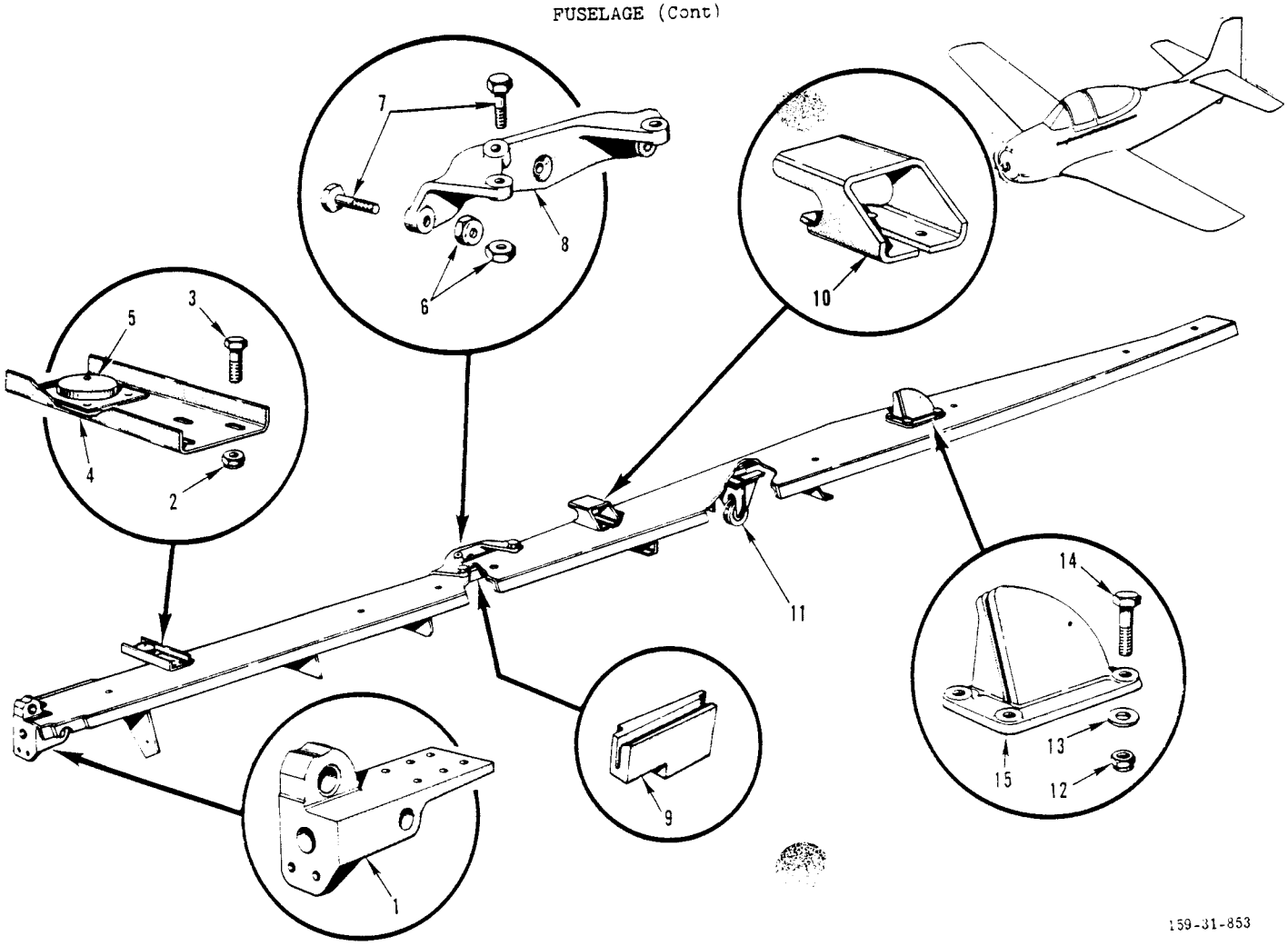
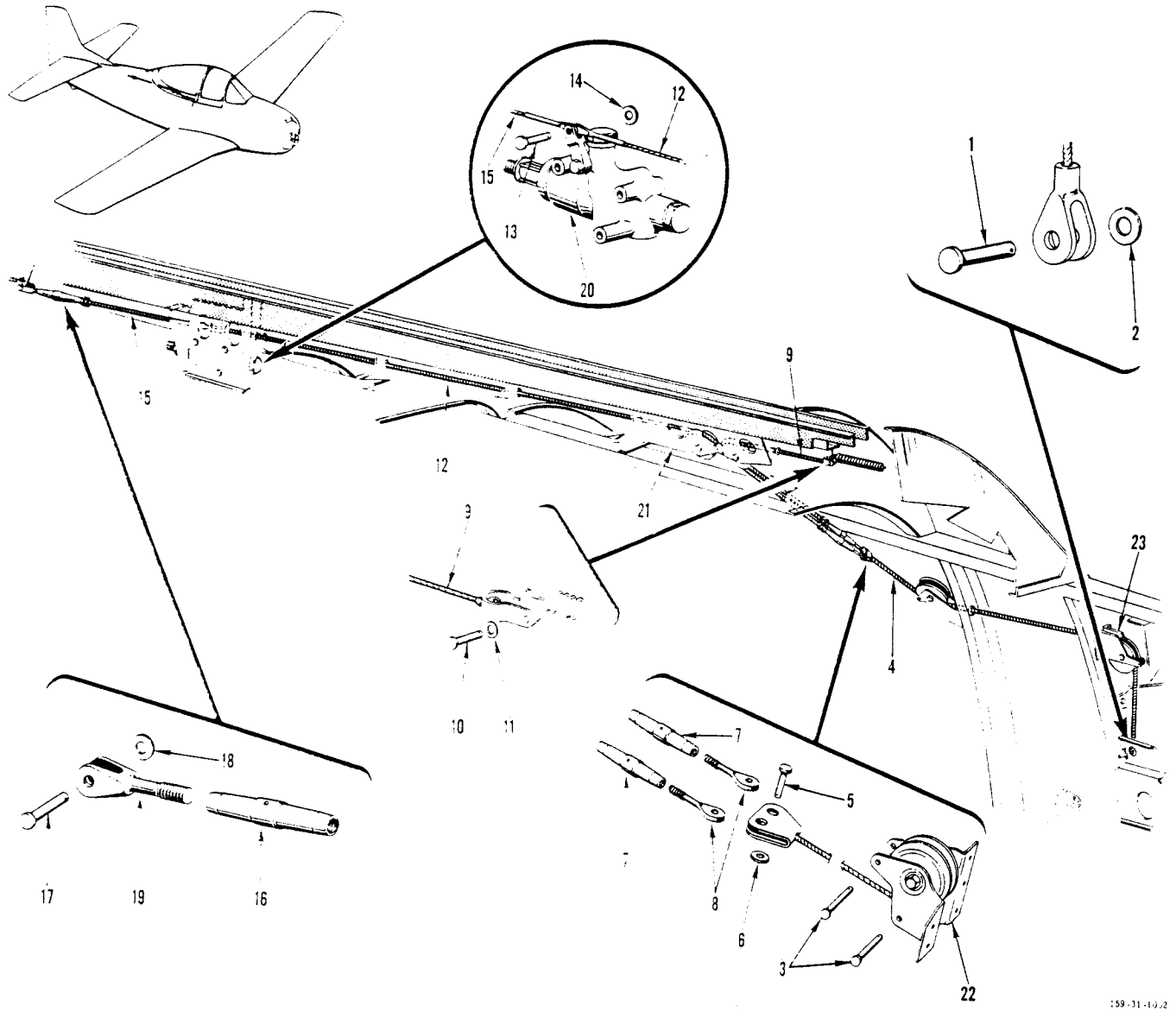


FIGURE 68 - FUSELAGE STATION 49.5 TO 168 FORWARD UPPER LH AND RH LONGERON ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
68	159-31120	LONGERON ASSEMBLY, Fuselage station 49.5 to 168 forward upper LH (see figure 63 for next assembly)	Ref	4-693
	159-31120-50	LONGERON ASSEMBLY, Fuselage station 49.5 to 168 forward upper LH (see figure 63 for next assembly)	Ref	694-
	159-31121	LONGERON ASSEMBLY, Fuselage station 49.5 to 168 forward upper RH (see figures 59 and 60 for next assembly)	Ref	4-693
	159-31121-50	LONGERON ASSEMBLY, Fuselage station 49.5 to 168 forward upper RH (see figure 60 for next assembly)	Ref	694-
-1	159-31150-1	. FITTING, Fus sta 49.5 firewall and upper longeron hoist LH	1	
	159-31150-2	. FITTING, Fus sta 49.5 firewall and upper longeron hoist RH	1	
-2	AN365-1032	. NUT	2	
-3	AN3-4A	. BOLT	2	
-4	159-51011	. SUPPORT ASSY, Inst panel shock absorber mounting front. (superseded by 159-51011-51. 159-51011 may be used interchangeably with 159-51011-51 until stock is exhausted)	1	
	159-51011-51	. SUPPORT ASSY, Inst panel shock absorber mounting front. (supersedes 159-51011 for future procurement)	1	694-
-5	AN8008D10	. . INSULATOR (Used on 159-51011)	1	
	6952L	. . MOUNT, MET-L-FLEX (Roberson Aircraft) (used on 159-51011-51)	1	694-
-6	AN365-428	. NUT	4	
-7	AN4-6A	. BOLT	4	
-8	159-31826-1	. BRACKET, Fwd cockpit encl fus sta 105 pulley & track sup. LH.	1	
	159-31826-2	. BRACKET, Fwd cockpit encl fus sta 105 pulley & track sup. RH.	1	
-9	159-31874-1	. WEDGE, Fwd cockpit encl fus sta 97 pulley bracket LH.	1	
	159-31874-2	. WEDGE, Fwd cockpit encl fus sta 97 pulley bracket RH.	1	
-10	159-318114-1	. SUPPORT, Front cockpit enclosure canopy track rear LH	1	
	159-318114-2	. SUPPORT, Front cockpit enclosure canopy track rear RH	1	
	159-318106	. BRACKET ASSY, Cockpit enclosure cable deflecting pulley	1	
-11	AN210-3A	. . PULLEY	1	
-12	AN365-1032	. NUT	4	
-13	AN960-10	. WASHER	4	
-14	AN3-10A	. BOLT	4	
-15	159-318479-1	. BRACKET, Cockpit enclosure control fus sta 138 cable guide. LH (supersedes 159-31887-1, 159-31888-1, 159-318163-1)	1	
	159-318479-2	. BRACKET, Cockpit enclosure control fus sta 138 cable guide. RH (supersedes 159-31887-2, 159-31888-2, 159-318163-2)	1	



159-31-10.2

FIGURE 59 - CANOPY CONTROLS

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
59	159-312002		NOMENCLATURE ENGR2, Canopy complete (see fig. 60 for next assy) . . .	NP	
-1	AN393-6		. PIN	1	
-2	AN960-416		. WASHER	1	
-3	MS21044C3		. NUT, Fillet guard	6	
-4	159-312195		. CABLE ASSEMBLY, Cockpit enclosure by-pass control	1	
-5	AN393-11		. PIN	2	
-6	AN960-416		. WASHER	2	
-7	AN156-10		. BARREL	2	
-8	AN100-6R8		. EYE	2	
-9	159-312181		. CABLE ASSY, Cockpit enclosure lock release forward	1	
-10	AN393-7		. PIN	1	
-11	AN960-416		. WASHER	1	
-12	159-312196		. CABLE ASSY, Cockpit enclosure by-pass valve control	1	
-13	AN393-10		. PIN	1	
-14	AN960-416		. WASHER	1	
-15	159-312182		. CABLE ASSEMBLY, Cockpit enclosure by-pass control aft	1	
-16	AN156-10		. BARREL	1	
-17	AN393-6		. PIN	1	
-18	AN960-416		. WASHER	1	
-19	AN393-7		. PIN	1	
-20	159-312179		VALVE ASSY, Hnd canopy complete solenoid by-pass (figure 128) . .	Ref	
-21	159-312174		BRACKET ASSY, Cockpit enclosure fuselage station 182 1/2	Ref	
			by-pass control pulley (figure 84)		
-22	159-312177		BRACKET ASSY, Cockpit enclosure fuselage station 177 3/4	Ref	
			by-pass control pulley (figure 83)		
-23	159-312475		BRACKET ASSY, Fus sta for by-pass cont pulley (see fig. 83) . .	Ref	

Revised 27 May 1 [illegible]

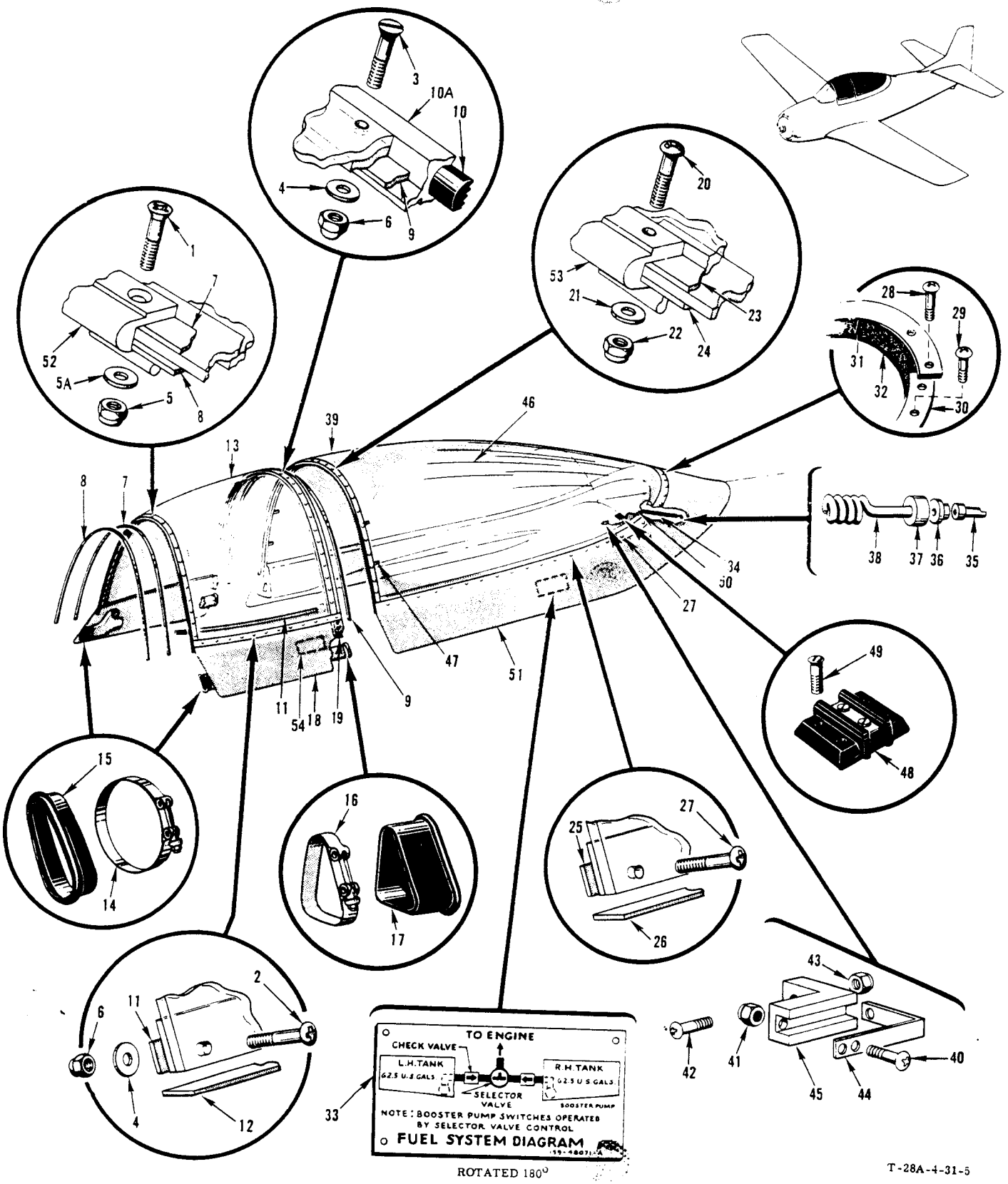


FIGURE 70 - COCKPIT ENCLOSURE CANOPY

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
70		COCKPIT ENCLOSURE CANOPY		
	159-31811	. CANOPY ASSEMBLY, Cockpit enclosure front complete (see figure 50 for next assembly)	Ref	4-393
	159-31811-50	. CANOPY ASSEMBLY, Cockpit enclosure front complete (see figure 50 for next assembly)	Ref	394-693
-1	7S16-10-17	. . SCREW, 100° flush head corrosion resistant (North American	23	4-693
-2	NAS221-17	. . SCREW, Brazier head Phillips recess alloy steel 10-32	24	4-693
-3	NAS221-21	. . SCREW, Brazier head Phillips recess alloy steel 10-32	27	4-693
-4	AN960C10	. . WASHER	78	4-693
-5	AN363C1032	. . NUT	23	4-693
-5A	AN960C10	. . WASHER	46	4-693
-6	AN365-1032	. . NUT	51	4-693
-7	159-31811-9	. . SEAL, Cockpit enclosure front	1	4-693
-8	159-31811-5	. . SEAL, Cockpit enclosure front	AR	4-693
-9	159-31811-7	. . SEAL, Cockpit enclosure front	1	4-693
-10	174-31816-9	. . SEAL, Cockpit enclosure bow (supersedes 117-31850-3 which may be used interchangeably until stock is exhausted)	1	4-693
	159-318240	. . ANGLE ASSY, Cockpit enclosure front canopy rear bow	1	4-693
-10A	159-31809	. . . BOW, Pilot's enclosure front canopy rear	1	4-693
-11	159-31811-11	. . SEAL, Cockpit enclosure front	2	4-693
-12	159-31811-3	. . FILLER, Cockpit enclosure front	12	4-693
-13	159-31806	. . GLASS ASSEMBLY, Forward cockpit enclosure	1	4-693
-14	23560	. . CLAMP, T-Bolt (Marman Products)	2	4-693
-15	159-53556	. . SEAL, Heat and vent windshield to canopy defroster air (supersedes 159-53562)	2	4-693
-16	22908	. . CLAMP, 3/16 T-Bolt special triangular band (Marman Products	2	4-693
-17	159-53568-1	. . SEAL, Heat and vent forward to aft canopy defroster LH (supersedes 159-53571-1)	1	4-693
	159-53568-2	. . SEAL, Heat and vent forward to aft canopy defroster RH (supersedes 159-53571-2)	1	4-693
-18	159-31804	. . FRAME ASSEMBLY, Cockpit enclosure forward (see figure 72 for detail breakdown)	1	4-393
	159-31804-50	. . FRAME ASSEMBLY, Cockpit enclosure forward (see figure 72 for detail breakdown)	1	394-693
-19	159-31865	. . BLOCK, Pilot's encl front canopy rear bow spacer	2	4-693
	159-31812	. CANOPY ASSEMBLY, Cockpit enclosure rear complete (see figure. 50 for next assembly	Ref	4-268
	159-31812-25	. CANOPY ASSEMBLY, Cockpit enclosure rear complete (see figure. 50 for next assembly	Ref	269-393
	159-31812-50	. CANOPY ASSEMBLY, Cockpit enclosure rear complete (see figure. 50 for next assembly	Ref	394-693
-20	AN509-10R17	. . SCREW	27	4-693
-21	AN960-10L	. . WASHER	27	4-693
-22	AN365-1032	. . NUT	27	4-693
-23	159-31812-5	. . SEAL, Cockpit enclosure rear	1	4-693
-24	159-31812-3	. . SEAL, Cockpit enclosure rear	AR	4-693
-25	159-31812-7	. . SEAL, Cockpit enclosure rear	1	4-693
-26	159-31812-9	. . FILLER, Cockpit enclosure rear	26	4-693
-27	NAS221-17	. . SCREW, Brazier head Phillips recess alloy steel 10-32	34	4-693
-28	NAS221-9	. . SCREW, Brazier head Phillips recess alloy steel 10-32	1	4-693
-29	NAS221-8	. . SCREW, Brazier head Phillips recess alloy steel 10-32	20	4-693
-30	159-318232-3	. . RETAINER, Cockpit enclosure aft canopy glass (RH side)	1	4-693
-31	159-318232-5	. . RETAINER, Cockpit enclosure aft canopy glass (LH side)	1	4-693
-32	159-31812-11	. . SEAL, Aft canopy glass	1	4-693
-33	159-48071	. . FUEL SYSTEM DIAGRAM	1	4-393
	174-48071	. . PLACARD, Fuel system diagram	1	394-693
-34	151-71023-10	. . CORD ASSEMBLY, Radio compass sense	1	4-693
-35	140-71042	. . . PIN, Radio compass sense antenna disconnect	1	4-693
-36	140-71041	. . . INSULATOR, Radio compass sense antenna disconnect cap	1	4-693
-37	140-71043	. . . CAP, Radio compass sense antenna disconnect	1	4-693
-38	151-71023-7	. . . CORD, Radio compass sense	1	4-693
-39	159-31817	. . GLASS ASSEMBLY, Aft cockpit enclosure complete	1	4-693
	159-31807	. . . GLASS ASSEMBLY, Aft cockpit enclosure	1	4-693
-40	AN515-4R6	. . . . SCREW	1	4-693
-41	AN365-440	. . . . NUT	1	4-693
-42	AN515-6R8	. . . . SCREW	1	4-693
-43	AN365-632	. . . . NUT	1	4-693
-44	147-71086	. . . . TERMINAL, AN/ARN6 compass sense antenna	1	4-693
-45	147-71085	. . . . CONNECTOR, AN/ARN6 compass sense antenna lead-in	1	4-693
-46	159-71121	. . . . WIRE ASSY, Radio compass sense antenna (supersedes 151-71026-15 for future procurement)	1	4-693
-47	159-53067	. . . . CLIP, Aft encl view limiter attaching (supersedes 159-31807-25)	4	4-693
-48	1-1-0	. . TERMINAL STRIP, Jones (United-Carr Fastener)	1	4-693
-49	AN515-6R10	. . SCREW	2	4-693
-50	159-71162	. . SPRING, Tension (supersedes 159-71161)	1	4-693
-51	159-31805	. . FRAME ASSEMBLY, Cockpit enclosure rear (see figure 72 for detail breakdown	1	4-693
-52	159-31808	BOW, Pilot's enclosure front canopy (see figure 72)	Ref	
-53	159-31810	BOW, Pilot's enclosure rear canopy (see figure 72)	Ref	
-54	159-48071	FUEL SYSTEM DIAGRAM, (see figure 72)	Ref	
	174-48071	PLACARD, Fuel system diagram (see figure 72)	Ref	

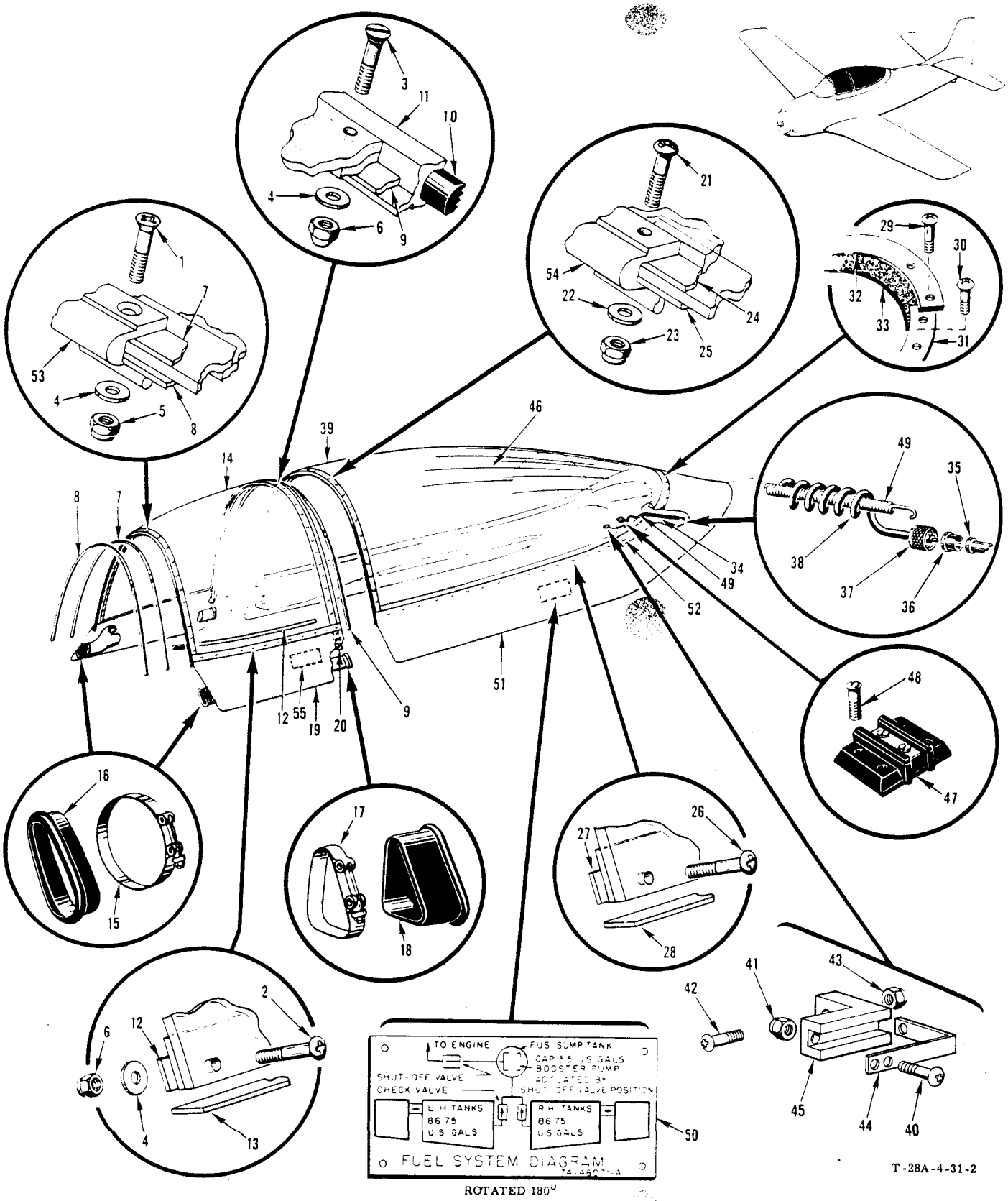


FIGURE 71 - COCKPIT ENCLOSURE CANOPY

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
71		COCKPIT ENCLOSURE CANOPY		
	174-31811	. CANOPY ASSEMBLY, Cockpit enclosure front complete (see figure 71 for next assembly)	Ref	694-
-1	MS16-10-17	. . SCREW, 100° Flush head corrosion resistant (North American)	23	694-
-2	NAS221-17	. . SCREW, Brazier head Phillips recess alloy steel 10-32	24	694-
-3	NAS221-21	. . SCREW, Brazier head Phillips recess alloy steel 10-32	27	694-
-4	AN960D10	. . WASHER	124	694-
-5	AN363C1032	. . NUT	23	694-
-6	AN365-1032	. . NUT	51	694-
-7	174-31811-7	. . SEAL, Cockpit enclosure front canopy	1	694-
-8	174-31811-5	. . SEAL, Cockpit enclosure front canopy	1	694-
-9	174-31811-9	. . SEAL, Cockpit enclosure front canopy	2	694-
-10	174-31816-5	. . SEAL, Cockpit enclosure bow	1	694-
-11	174-31829	. . BOW ASSY, Cockpit enclosure front canopy rear (supersedes 174-31809 which may be used interchangeably until stock is exhausted)	1	694-
-12	174-31811-11	. . SEAL, Cockpit enclosure front canopy	2	694-
-13	174-31811-3	. . FILLER, Cockpit enclosure front canopy	12	694-
-14	174-31806	. . GLASS ASSEMBLY, Forward cockpit enclosure	1	694-
-15	23561	. . CLAMP, T-Bolt (Marman Products)	2	694-
-16	159-53556	. . SEAL, Heat and vent windshield to canopy defroster air (supersedes 159-53562)	2	694-
-17	22905	. . CLAMP, 3/16 T-Bolt special triangular band (Marman Products)	2	694-
-18	159-53568-1	. . SEAL, Heat and vent forward to aft canopy defroster LH (supersedes 159-53571-1)	1	694-
	159-53568-2	. . SEAL, Heat and vent forward to aft canopy defroster RH (supersedes 159-53571-2)	1	694-
-19	159-31804-101	. . FRAME ASSEMBLY, Cockpit enclosure forward (see figure 72 for detail breakdown)	1	694-
-20	159-31865	. . BLOCK, Pilot's enclosure front canopy rear bow spacer	2	694-
	174-31812	. CANOPY ASSEMBLY, Cockpit enclosure rear complete (see figure 71 for next assembly)	Ref	694-
-21	AN509-10R17	. . SCREW	27	694-
-22	AN960D10	. . WASHER	27	694-
-23	AN365-1032	. . NUT	27	694-
-24	174-31812-5	. . SEAL, Cockpit enclosure rear	1	694-
-25	174-31812-3	. . SEAL, Cockpit enclosure rear	1	694-
-26	NAS221-16	. . SCREW, Brazier head Phillips recess alloy steel 10-32	32	694-
-27	174-31812-7	. . SEAL, Cockpit enclosure rear	1	694-
-28	174-31812-9	. . FILLER, Cockpit enclosure rear	26	694-
-29	NAS221-9	. . SCREW, Brazier head Phillips recess alloy steel 10-32	1	694-
-30	NAS221-8	. . SCREW, Brazier head Phillips recess alloy steel 10-32	20	694-
-31	159-318232-3	. . RETAINER, Cockpit enclosure aft canopy glass (RH side)	1	694-
-32	159-318232-5	. . RETAINER, Cockpit enclosure aft canopy glass (LH side)	1	694-
-33	174-31812-11	. . SEAL, Aft canopy glass	1	694-
-34	151-71023-10	. . CORD ASSEMBLY, Radio compass sense	1	694-
-35	140-71042	. . . PIN, Radio compass sense antenna disconnect	1	694-
-36	140-71041	. . . INSULATOR, Radio compass sense antenna disconnect cap	1	694-
-37	140-71043	. . . CAP, Radio compass sense antenna disconnect	1	694-
-38	151-71023-7	. . . CORD, Radio compass sense	1	694-
-39	174-31807	. . GLASS ASSEMBLY, Aft cockpit enclosure	1	694-
-40	AN515-4R5	. . . SCREW	1	694-
-41	AN365-440	. . . NUT	1	694-
-42	AN515-6R9	. . . SCREW	1	694-
-43	AN365-632	. . . NUT	1	694-
-44	147-71086	. . . TERMINAL, AN/ARN6 Compass sense antenna	1	694-
-45	147-71085	. . . CONNECTOR, AN/ARN6 Compass sense antenna lead-in	1	694-
-46	159-71121	. . . WIRE ASSY, Radio compass sense antenna (supersedes 151-71026-15 for future procurement)	1	694-
-47	1-140	. . TERMINAL STRIP, Jones (United-Carr Fastener)	1	694-
-48	AN515-6R10	. . SCREW	2	694-
-49	159-71162	. . SPRING, Tension (supersedes 159-71161)	1	694-
-50	174-48071	. . PLACARD, Fuel system diagram	1	694-
-51	159-31805-101	. . FRAME ASSEMBLY, Cockpit enclosure rear (see figure 72 for detail breakdown)	1	694-
-52	NAS221-17	. . SCREW, Brazier head Phillips recess alloy steel 10-32	2	694-
-53	174-31828	BOW, Pilot's enclosure front canopy front (see figure 72)	Ref	
-54	174-31830	BOW, Pilot's enclosure rear canopy (see figure 72)	Ref	
-55	174-48071	PLACARD, Fuel system diagram (see figure 72)	Ref	

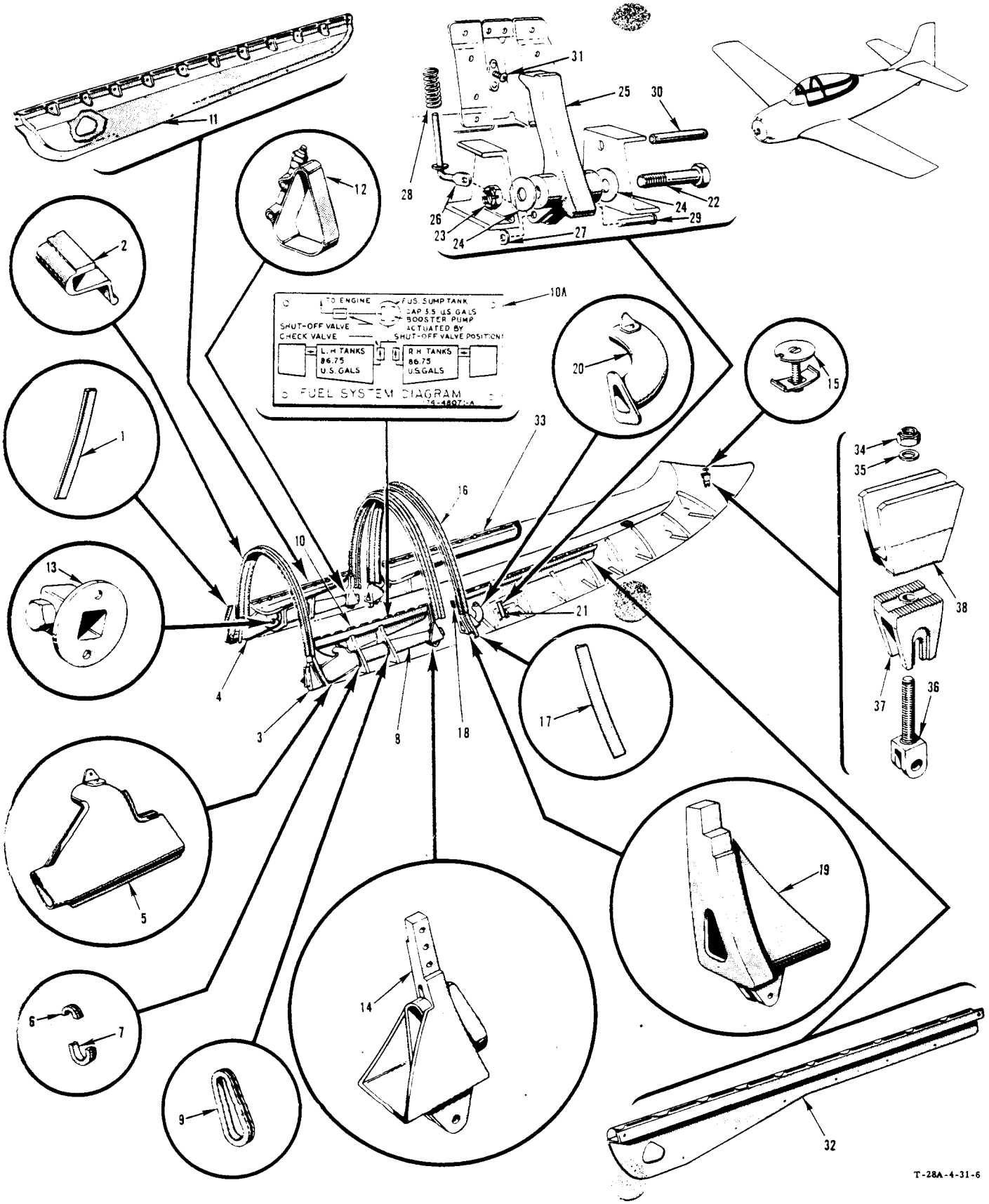


FIGURE 72 - FORWARD AND REAR COCKPIT ENCLOSURE FRAME

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
72		FORWARD AND REAR COCKPIT ENCLOSURE FRAME		
	159-31804	. FRAME ASSEMBLY, Cockpit enclosure forward (see figure 70 . . for next assembly)	Ref	4-393
	159-31804-50	. FRAME ASSEMBLY, Cockpit enclosure forward (see figure 70 . . for next assembly)	Ref	394-693
	159-31804-101	. FRAME ASSEMBLY, Cockpit enclosure forward (see figure 71 . . for next assembly)	Ref	694-
-1	159-31804-21	. . SEAL, Cockpit enclosure forward	2	
-2	159-31808	. . BOW, Pilot's enclosure front canopy front	1	4-693
	174-31828	. . BOW, Cockpit enclosure front canopy front . . . . . (supersedes 174-31808 which may be used interchangeably until stock is exhausted)	1	694-
-3	159-31876-1	. . FITTING, Front cockpit enclosure front attachment LH . .	1	
-4	159-31876-2	. . FITTING, Front cockpit enclosure front attachment RH . .	1	
-5	159-53563-1	. . DUCT ASSEMBLY, Heat and vent system forward canopy beam defroster supply LH	1	
	159-53563-2	. . DUCT ASSEMBLY, Heat and vent system forward canopy beam defroster supply RH	1	
-6	159-31804-15	. . PAD, Cockpit enclosure forward.	2	
-7	159-31804-11	. . PAD, Cockpit enclosure forward.	2	
-8	159-53570-1	. . DUCT, Heat and vent system forward to aft canopy defrost. connecting LH	1	
	159-53570-2	. . DUCT, Heat and vent system forward to aft canopy defrost. connecting RH	1	
-9	159-31804-13	. . PAD, Cockpit enclosure forward.	2	
-10	159-53564-1	. . MANIFOLD ASSEMBLY, Heat and vent system forward canopy. . defrost LH	1	4-393
	159-53564-10	. . MANIFOLD ASSEMBLY, Heat and vent system forward canopy. . defrost LH	1	394-
-10A	159-48071	. . . FUEL SYSTEM DIAGRAM	1	4-393
	174-48071	. . . PLACARD, Fuel system diagram	1	394-
-11	159-53564-2	. . MANIFOLD ASSEMBLY, Heat and vent system forward canopy. . defrost RH	1	
-12	23796	. . CLAMP, 3/16 T-Bolt special forward band (Marman Products)	2	
-13	1028--	. . BASE ASSEMBLY, Cockpit lamp type 25 and 24 (Soderberg). . (Specification 94-32294D)	1	4-328
-14	159-31877-1	. . FITTING, Front cockpit enclosure rear attachment LH . . .	1	
	159-31877-2	. . FITTING, Front cockpit enclosure rear attachment RH . . .	1	
	159-31805	. FRAME ASSEMBLY, Cockpit enclosure rear (see figure 70 for. . next assembly)	Ref	4-693
	159-31805-101	. FRAME ASSEMBLY, Cockpit enclosure rear (see figure 71 for. . next assembly)	Ref	694-
-15	A6912-832-1	. . PATCH PLATE (Zimmerman)	1	
-16	159-31810	. . BOW ASSEMBLY, Pilot's enclosure rear canopy	1	4-693
	174-31830	. . BOW, Cockpit enclosure rear canopy (supersedes . . . . . 174-31810 which may be used interchangeably until stock is exhausted)	1	694-
-17	159-31805-31	. . SEAL, Cockpit enclosure rear	2	
-18	159-318135	. . SEAL, Pilot's enclosure rear canopy bow (supersedes . . . 159-31805-35)	2	
-19	159-31878-1	. . FITTING, Rear cockpit enclosure front attachment LH . . .	1	
	159-31878-2	. . FITTING, Rear cockpit enclosure front attachment RH . . .	1	
-20	159-53572-1	. . DUCT, Heat and vent system aft canopy beam defroster. . . supply LH	1	
	159-53572-2	. . DUCT, Heat and vent system aft canopy beam defroster. . . supply RH	1	
-21	159-318319	. . HANDLE ASSEMBLY, Cockpit enclosure external complete. . .	1	
-22	AN5-21	. . . BOLT	1	
-23	AN320-5	. . . NUT.	1	
-24	2W1022-25-32	. . . WASHER, Plain (North American)	2	
-25	159-318320	. . . HANDLE, Cockpit enclosure external	1	
-26	159-318123	. . . PIN ASSEMBLY, Cockpit enclosure external handle. . . . (supersedes 159-318323)	1	
-27	AN960-8	. . . WASHER	1	
-28	159-318124	. . . SPRING, Cockpit enclosure external handle (supersedes. 159-318322)	1	
-29	AN392-25	. . . PIN.	1	
-30	159-318312	. . . PIN, Cockpit enclosure external handle stop.	1	
-31	AN515-8R14	. . . SCREW.	1	
-32	159-53573-1	. . DUCT ASSEMBLY, Heat and vent sys aft canopy beam. . . . . defroster LH	1	
-33	159-53573-2	. . DUCT ASSEMBLY, Heat and vent sys aft canopy beam. . . . . defroster RH	1	
-34	AN365-624	. . NUT	1	
-35	AN960-616	. . WASHER.	1	
-36	159-31825	. . YOKE, Rear cockpit enclosure rear attaching	1	
-37	159-31879	. . FITTING ASSEMBLY, Rear cockpit enclosure rear attaching . lower	1	
-38	159-31864	. . FITTING, Rear cockpit enclosure rear attaching upper. . .	1	

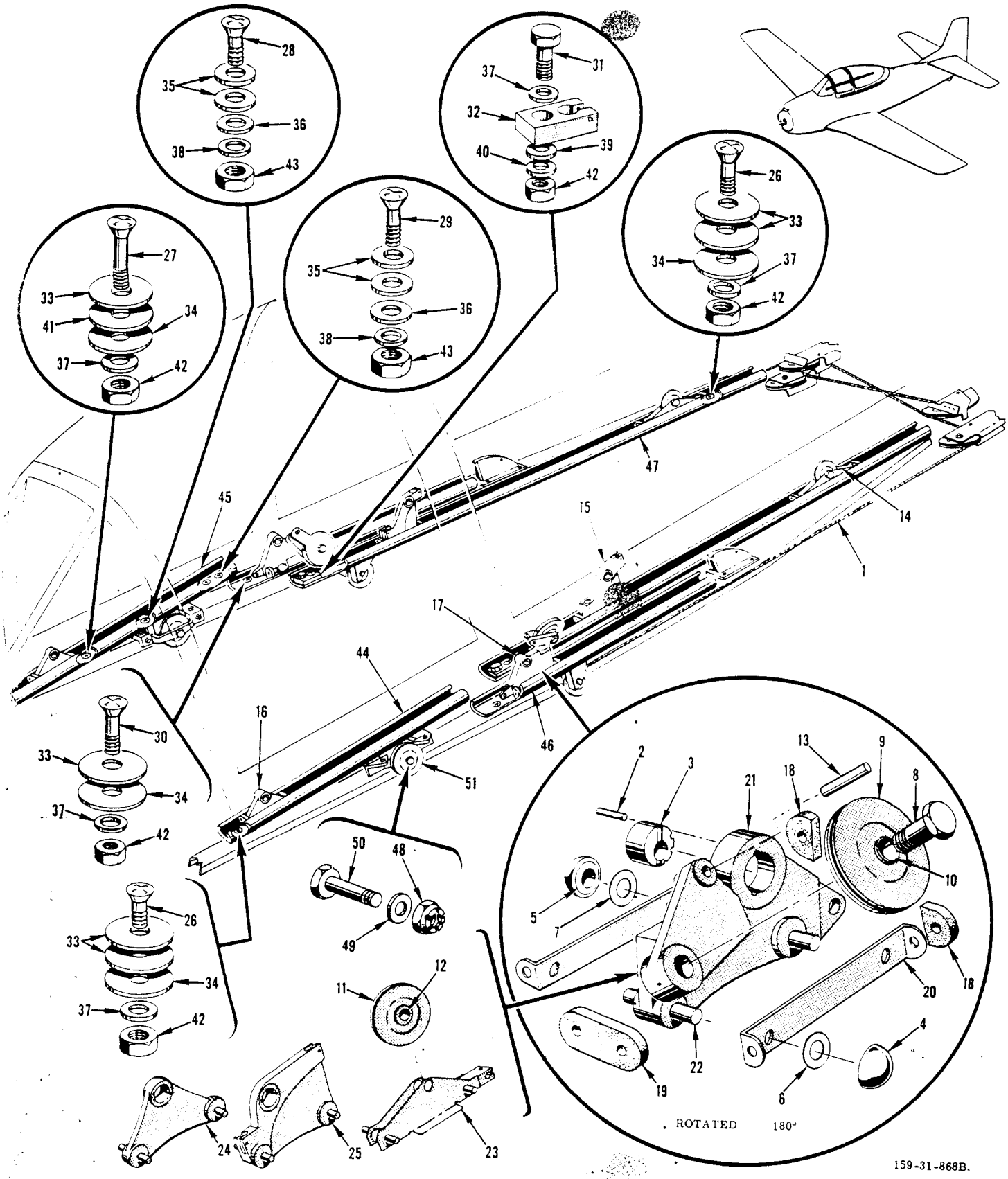


FIGURE 13 - CANOPY MECHANISM

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
73	159-31801	CANOPY MECHANISM INSTL (See Fig. 50 for next assembly).	NP	
-1	No Number	. FORWARD COCKPIT ENCLOSURE CABLES (see Fig. 76 for detail breakdown) . .	NP	
-2	159-31867	. PIN, Cockpit enclosure adjustment retaining.	6	
-3	159-31850	. INSERT, Cockpit enclosure adjustment bushing	6	
-4	159-31841-13	. ROLLER ASSEMBLY, Cockpit enclosure sliding canopy truck. . . (supersedes 159-31841-3)	32	
-5	4B16DP4-8	. . BEARING, Sintered oil impregnated (North American). . . .	1	
-6	2W1B17-20-16	. WASHER, Plain (North American)	AR	
-7	2W1B17-20-32	. WASHER, Plain (North American)	AR	
-8	AN5-11A	. BOLT (Magnetic inspected	1	
-9	159-31886	. PULLEY ASSY, Forward cockpit enclosure rear truck cable. . .	2	
-10	AN201K5A	. . BEARING	1	
-11	159-31844	. PULLEY ASSY, Forward cockpit enclosure control cable	2	
-12	AN201K3A	. . BEARING	1	
-13	AN392-21	. PIN.	1	
-14	159-31872-1	. TRUCK AND WIPER ASSY, Front cockpit enclosure actuating LH .	1	
	159-31872-2	. TRUCK AND WIPER ASSY, Front cockpit enclosure actuating RH .	1	
	159-31871	. TRUCK AND WIPER ASSY, Aft cockpit enclosure forward.	2	
-15	159-31895	. TRUCK AND WIPER ASSY, Front cockpit enclosure forward. . . .	2	
-16	159-31896-1	. TRUCK AND WIPER ASSY, Front cockpit enclosure aft LH	1	
-17	159-31896-2	. TRUCK AND WIPER ASSY, Front cockpit enclosure aft RH	1	
-18	159-31866-3	. . WIPER, Cockpit enclosure track (2 required on 159-31872-1 159-31872-2, 159-31896-1 and 159-31896-2)	2	
-19	159-31866-5	. . WIPER, Cockpit enclosure track (2 required on 159-31895 . 159-31871, 159-31896-1 and 159-31896-2)	1	
-20	159-31893-5	. . STRAP, Cockpit enclosure track wiper (used on 159-31871 . 159-31895, 159-31896-1 and 159-31896-2)	2	
	159-31893-3	. . STRAP, Cockpit enclosure track wiper (used on . . . . . 159-31872-1 and 159-31872-2)	2	
-21	159-31843-1	. . TRUCK ASSY, Forward canopy aft LH (used on 159-31896-1) .	1	
	159-31843-2	. . TRUCK ASSY, Forward canopy aft RH (used on 159-31896-2) .	1	
-22	159-31829-7	. . . PIN, Cockpit enclosure roller	2	
-23	159-31848-1	. . TRUCK ASSEMBLY, Forward cockpit enclosure actuating LH . (Used on 159-31872-1) (superseded by 159-31848-21 159-31848-1 may be used interchangeably with 159-31848-21 until stock is exhausted)	1	
	159-31848-21	. . TRUCK ASSY, Forward cockpit enclosure actuating LH. . . . (supersedes 159-31848-1 for future procurement)	1	
	159-31848-2	. . TRUCK ASSY, Fwd cockpit encl actuating LH (used on . . . 159-31872-2) superseded by 159-31848-22. 159-31848-2 may be used interchangeably with 159-31848-22 until stock is exhausted)	1	
	159-31848-22	. . TRUCK ASSY, Fwd cockpit encl actuating RH (supersedes . . 159-31848-2 for future procurement)	1	
	159-31829-5	. . . PIN, Cockpit enclosure roller (used on 159-31848-1,-2)	1	
	159-31835-7	. . . PIN, Aft cockpit encl truck lock(used on 159-31848-1 . and 159-31848-2)	1	
	159-31829-9	. . . PIN, Cockpit encl roller (used on 159-31848-21 & -22).	2	
-24	159-31868-5	. . TRUCK ASSY, Front cockpit encl fwd (used on 159-31895). .	1	
	159-31829-7	. . . PIN, Cockpit enclosure roller.	2	
-25	159-31885-5	. . TRUCK ASSY, Aft cockpit encl fwd (used on 159-31871). . .	1	
	159-31829-7	. . . PIN, Cockpit enclosure roller.	2	
-26	AN509-416R13	. SCREW (Magnetic inspected	14	
-27	AN509-416R16	. SCREW (Magnetic inspected	2	
-28	AN509-10R18	. SCREW (Magnetic inspected	2	
-29	AN509-10R11	. SCREW (Magnetic inspected	4	
-30	AN509-416R15	. SCREW (Magnetic inspected	2	
-31	AN4-12A	. BOLT (Magnetic inspected	2	
-32	159-31869	. FITTING, Forward cockpit enclosure closing cable end	2	
-33	AN960-916	. WASHER	32	
-34	AN960-916L	. WASHER	18	
-35	AN960-716	. WASHER	12	
-36	AN960-716L	. WASHER	6	
-37	AN960-416	. WASHER	20	
-38	AN960-10	. WASHER	6	
-39	AN960-416L	. WASHER	2	
-40	AN960D416L	. WASHER	4	
-41	AN960D916L	. WASHER	2	
-42	AN365-428	. NUT (Magnetic inspected)	20	
-43	AN365-1032	. NUT (Magnetic inspected)	6	
-44	159-31813-7	. TRACK ASSEMBLY, Cockpit encl front canopy forward LH	1	
-45	159-31813	. TRACK ASSEMBLY, Cockpit encl front canopy forward RH	1	
-46	159-31814	. TRACK ASSY, Cockpit enclosure front canopy aft	2	
-47	159-31815	. TRACK ASSY, Cockpit enclosure rear canopy forward	2	
-48	AN310-5	. NUT (Magnetic inspected)	1	
-49	AN960-516L	. WASHER	1	
-50	NAS335-17	. BOLT, 100° close tolerance high strength 5/16-24 (mag Insp).	1	
-51	NAS377-2	. PULLEY, Flight control	2	

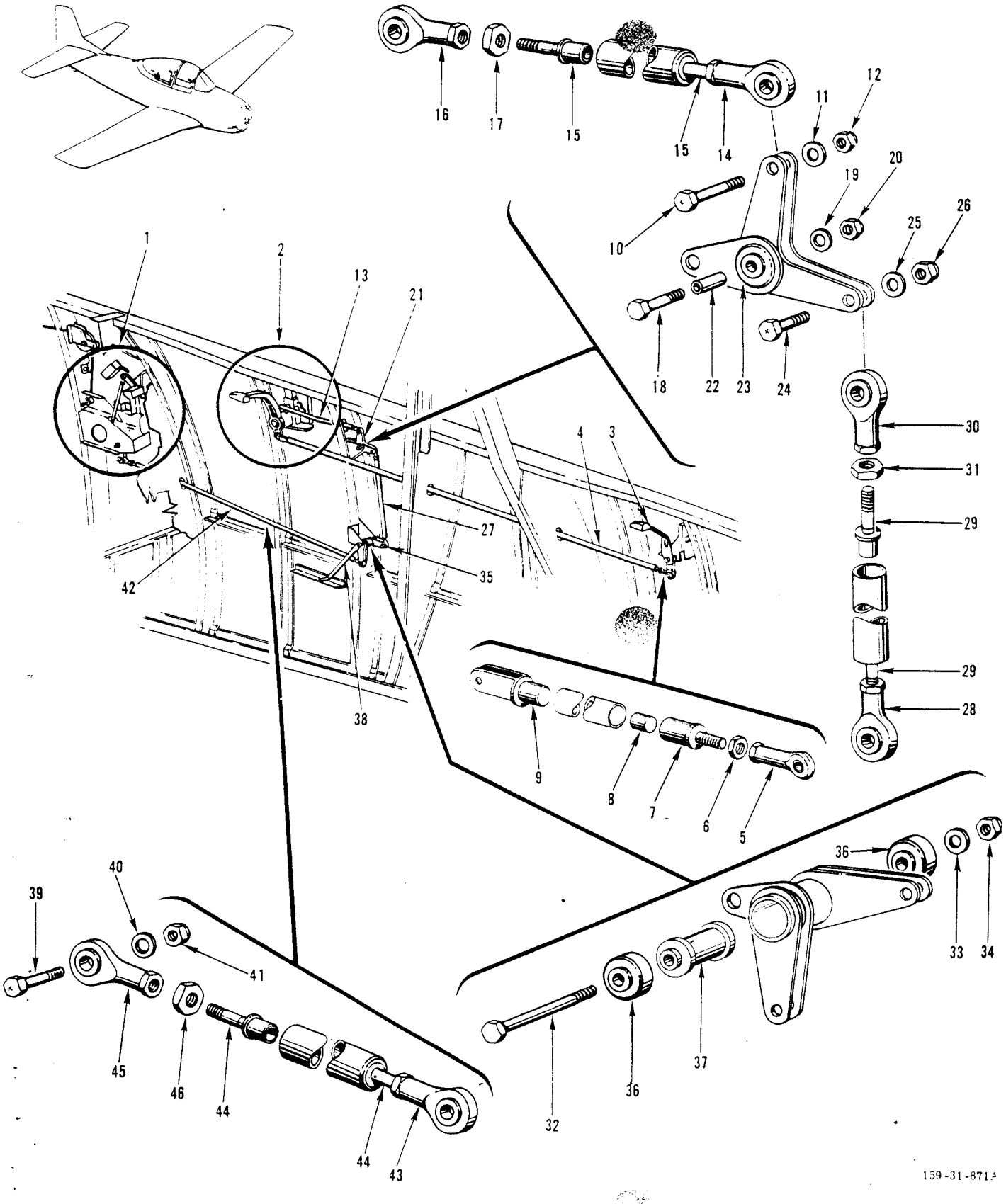


FIGURE 74 - COCKPIT CANOPY CONTROL MECHANISM

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
74	159-31803	MECHANISM INSTL, Cockpit canopy control (see fig. 62 for next assembly)	NP	
-1	No Number	. COCKPIT ENCLOSURE CONTROL MECHANISM BRACKET ASSY (see figure 78 for detail breakdown)	NP	
-2	No Number	. AFT COCKPIT ENCLOSURE CONTROL MECHANISM (see figure 75 for detail breakdown)	NP	
-3	159-318162	. HANDLE ASSY, Cockpit enclosure control forward (see fig. 77 for detail breakdown and attaching parts)	1	4-40
	159-318482	. HANDLE ASSY, Complete cockpit enclosure control forward (see fig. 77 for detail breakdown & attaching parts)	1	41-
-4	159-318171	. TUBE ASSY, Cockpit enclosure control handle interconnect	1	
-5	REB3N2	. . ROD END BEARING (Fafnir Bearing)	1	
-6	AN316-5R	. . NUT	1	
-7	146-523160	. . END ASSY, Aileron control wing break inboard push pull rod	1	
-8	159-52117-15	. . PLUG, Rod end and tube rivet	1	
-9	159-318172	. . FORK, Cockpit enclosure control handle interconnect tube	1	
-10	AN3-12A	. BOLT	1	
-11	AN960-10	. WASHER	1	
-12	AN365-1032	. NUT	1	
-13	159-318462	. TUBE ASSY, Cockpit enclosure control upper push-pull	1	
	159-318462-5	. . TUBE SUB-ASSY, Cockpit enclosure control upper push-pull	1	
-14	REB3N2	. . . ROD END BEARING, Double rod self aligning metal shielded female thread (Fafnir Bearing)	1	
-15	159-52220-3	. . . TUBE END, Elevator control threaded	2	
-16	REB3N2	. . ROD END BEARING (Fafnir Bearing)	1	
-17	AN316-5R	. . NUT, Check	1	
-18	AN3-12A	. BOLT	1	
-19	AN960D10	. WASHER	1	
-20	AN365-1032	. NUT	1	
-21	159-318405	. BELLCRANK ASSY, Cockpit enclosure control upper idler	1	
-22	4S6-3-0.156	. . SPACER, Plain dual bearing (North American)	1	
-23	AN201K3A	. . BEARING	2	
-24	AN3-7A	. BOLT	2	
-25	AN960-10	. WASHER	2	
-26	AN365-1032	. NUT	2	
-27	159-318463	. TUBE ASSY, Cockpit encl control upper intermediate push-pull	1	
	159-318463-5	. . TUBE SUB-ASSEMBLY, Cockpit enclosure control upper intermediate push-pull	1	
-28	REB3N2	. . . ROD END BEARING (Fafnir Bearing)	1	
-29	159-52220-3	. . . TUBE END, Elevator control threaded	2	
-30	REB3N2	. . ROD END BEARING (Fafnir Bearing)	1	
-31	AN316-5R	. . NUT	1	
-32	AN3-32H	. BOLT	1	
-33	AN960-10	. WASHER	1	
-34	AN365-1032	. NUT	1	
-35	159-318455	. BELLCRANK ASSY, Cockpit enclosure control lower idler	1	
-36	AN201K3A	. . BEARING	2	
-37	4S7-1-1.968	. . SPACER, Flanged dual bearing (North American)	1	
-38	159-318473	. BRACE ASSY, Cockpit encl control lower idler bellcrank bracket	1	
-39	AN3-7A	. BOLT	2	
-40	AN960-10	. WASHER	2	
-41	AN365-1032	. NUT	2	
-42	159-318150	. TUBE ASSY, Cockpit enclosure control push-pull	1	4-270
	159-318146	. TUBE ASSY, Cockpit enclosure control push-pull	1	271-
	159-318150-5	. . TUBE SUB-ASSY, Cockpit enclosure control push-pull	1	4-270
	159-318146-5	. . TUBE SUB-ASSY, Cockpit enclosure control push-pull	1	271-
-43	REB3N2	. . . ROD END BEARING (Fafnir Bearing)	1	
-44	159-52220-3	. . . TUBE END, Elevator control threaded	2	4-270
	1R12-10-065-524	. . . RIVETING ROD END, Threaded (North American)	1	271-
-45	REB3N2	. . ROD END BEARING (Fafnir Bearing)	1	
-46	AN316-5R	. . NUT	1	

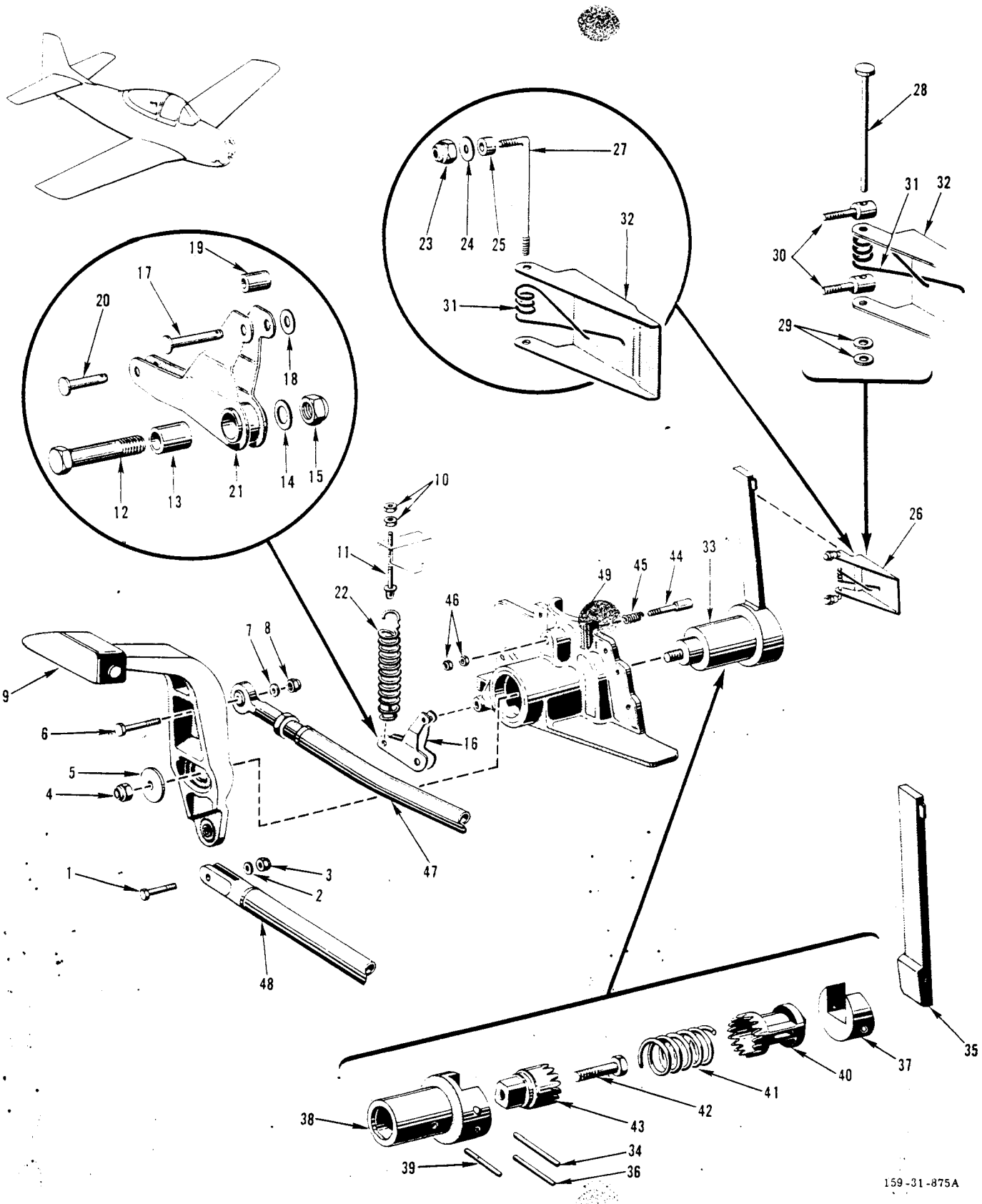


FIGURE 75 - AFT COCKPIT ENCLOSURE CONTROL MECHANISM

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
75	No Number	AFT COCKPIT ENCLOSURE CONTROL MECHANISM (See figure 74 for next assembly)	NP	
-1	AN3-10A	. BOLT		
-2	AN960-10	. WASHER		
-3	AN365-1032	. NUT		
-4	AN364-428	. NUT		
-5	AN970--	. WASHER		
-6	AN3-12A	. BOLT		
-7	AN960-10L	. WASHER		
-8	AN365-1032	. NUT		
-9	159-318406	. HANDLE ASSEMBLY, Cockpit enclosure control aft inboard complete (see figure 77 for detail breakdown)	1	
-10	AN315-3	. NUT		
-11	159-318415	. BOLT, Cockpit enclosure control handle bungee adjusting		
-12	AN4-14A	. BOLT		
-13	4-82184-015	. BUSHING, Spacer (North American)		
-14	AN960--16L	. WASHER		
-15	AN365--8	. NUT		
-16	159-318401	. BELLCRANK ASSY, Cockpit enclosure control handle bungee		
-17	AN392-17	. . PIN		
-18	AN960D4	. . WASHER		
-19	159-318418	. . ROLLER, Cockpit enclosure control handle position index		
-20	AN392-9	. . PIN		
-21	159-318401-3	. . BELLCRANK SUB ASSEMBLY, Cockpit enclosure control handle bungee	1	
-22	159-31873	. SPRING, Cockpit enclosure locking truck release		
-23	AN365-440	. NUT		
-24	AN960-4	. WASHER		
-25	-8424--	. SPACER, Rivet (North American)		
-26	159-318411	. LATCH ASSY, Cockpit enclosure external control handle		4-82
	159-318489	. LATCH ASSY, Cockpit enclosure external control handle		83-
-27	159-318414	. . PIN, Cockpit enclosure external control handle latch		4-82
-28	AN392--3	. . PIN		83-
-29	AN960D4	. . WASHER	2	83-
-30	159-318488	. . SUPPORT, Cockpit enclosure external control handle latch pin		83-
-31	159-318413	. . SPRING, Cockpit enclosure external control handle latch		
-32	159-318412	. . LATCH, Cockpit enclosure external control handle		
-33	159-318147	. MECHANISM ASSEMBLY, Cockpit enclosure control aft handle		
-34	159-318185	. . PIN, Cockpit enclosure control outboard handle		
-35	159-318151	. . HANDLE ASSEMBLY, Cockpit enclosure control outboard		
-36	159-318187	. . PIN, Outboard cockpit enclosure handle plug retainer		
-37	159-318159	. . INSERT, Cockpit enclosure control handle mechanism		
-38	159-318184	. . CASE, Cockpit enclosure control handle mechanism.		
-39	159-318186	. . PIN, Cockpit enclosure control aft handle		
-40	159-318165	. . COUPLING, Cockpit enclosure control aft outboard handle		
-41	159-318168	. . SPRING, Cockpit enclosure emergency control handle		
-42	AN4-7A	. . BOLT.		
-43	159-318158	. . COUPLING, Cockpit enclosure control aft inboard handle.		
	AN960D616L	. . WASHER		
-44	159-318189	. PLUNGER, Cockpit enclosure control outboard handle release		
-45	151-54339	. SPRING, Landing gear electrical control handle		
-46	AN340-6	. NUT.		
-47	159-318462	TUBE ASSY, Cockpit encl control upper push-pull (figure 74)	Ref	
-48	159-318171	TUBE ASSY, Cockpit encl control handle interconnect (figure 74)	Ref	
-49	159-318474-3	SUPPORT ASSY, Cockpit encl control aft handle mech (figure 64).	Ref	

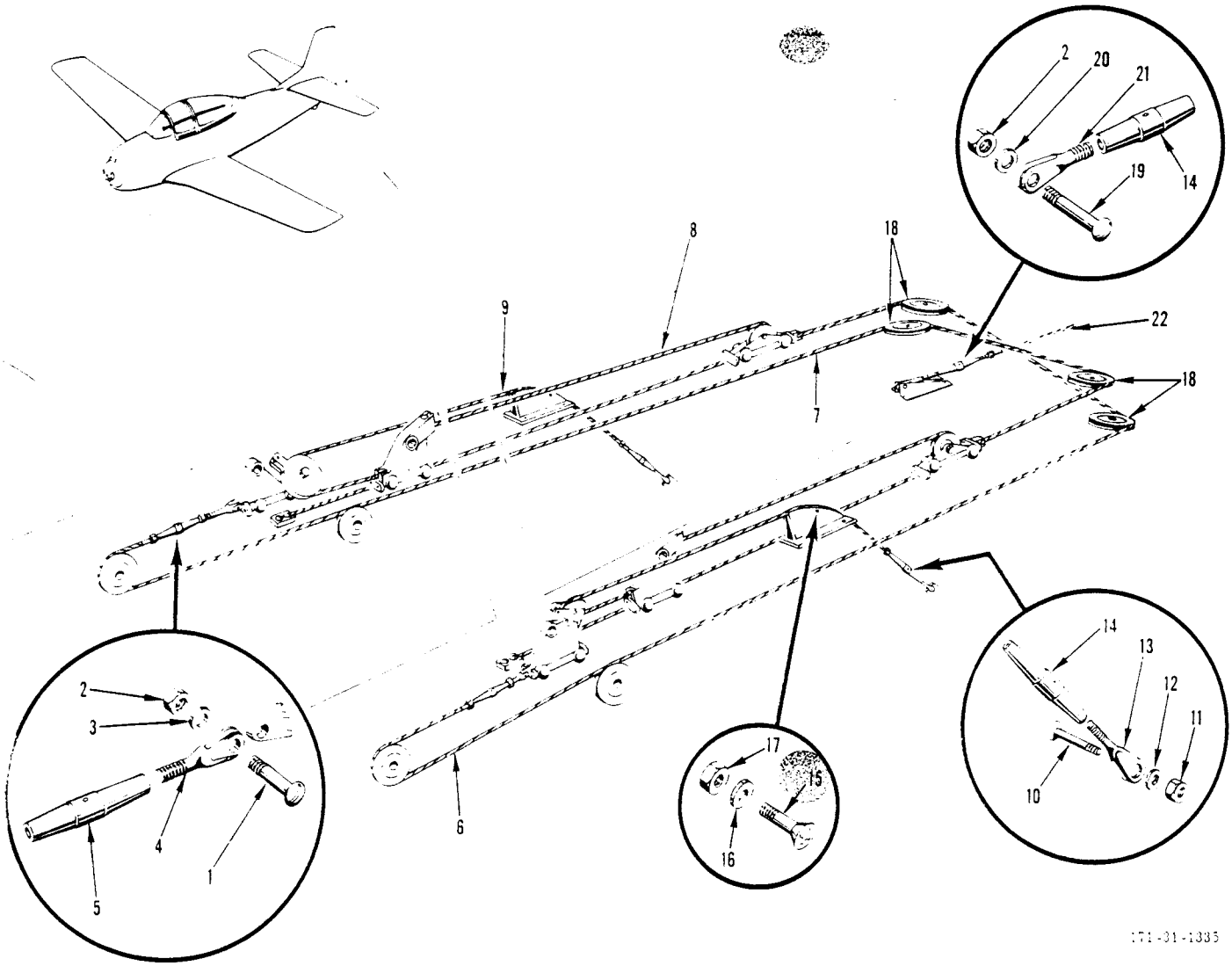


FIGURE 76 - FORWARD COCKPIT ENCLOSURE CABLES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
76		FORWARD COCKPIT ENCLOSURE CABLES (See fig. 73 for next assy)	HP	
-1	AN24-13	BOLT		
-2	AN320-4	NUT		
-3	AN960-416	WASHER		
-4	AN161-32LS	FORK		
-5	AN155-32S	TURNBUCKLE		
-6	159-31882	CABLE ASSEMBLY, Forward cockpit enclosure closing LH		
-7	159-31870	CABLE ASSEMBLY, Forward cockpit enclosure closing RH		
-8	159-31880	CABLE ASSEMBLY, Forward cockpit enclosure closing		
-9	159-31881	CABLE ASSY, Forward cockpit enclosure opening intermediate		
-10	AN23-11	BOLT		
-11	AN320-3	NUT		
-12	AN960-10	WASHER		
-13	AN161-22LL	FORK		
-14	AN155-32L	TURNBUCKLE		
-15	AN509-8-12	SCREW		
-16	AN960D8L	WASHER		
-17	AN365-832	NUT		
-18	AN210-4A	PULLEY		
-19	AN24-14	BOLT		
-20	AN960-416	WASHER		
-21	AN161-32RL	FORK		
-22	159-31883	CABLE ASSEMBLY, Aft cockpit enclosure closing (see figure 79)	Ref	

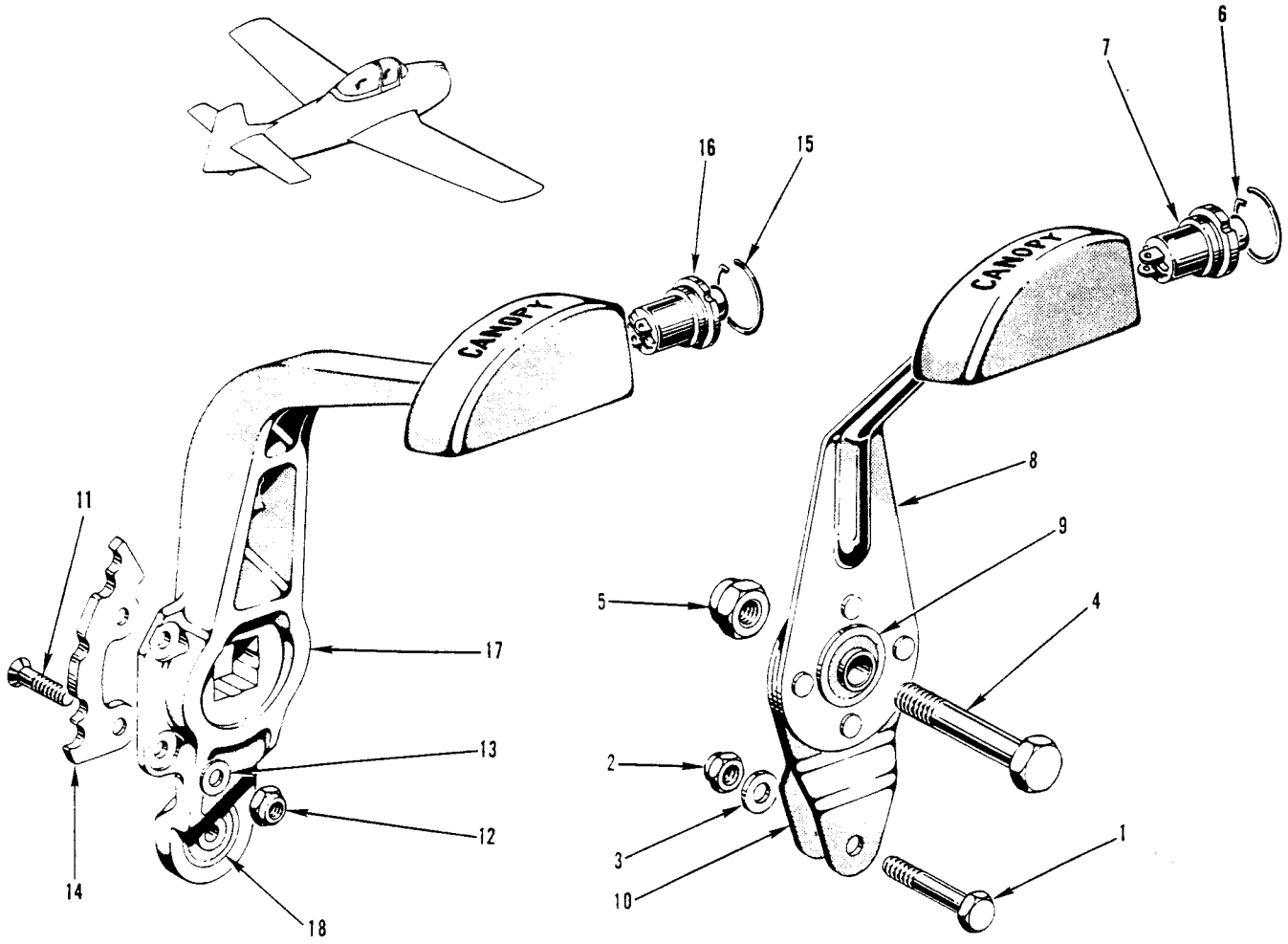


FIGURE 77 - COCKPIT ENCLOSURE CONTROL FORWARD AND AFT HANDLE ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
77		COCKPIT ENCLOSURE CONTROL FORWARD AND AFT HANDLE ASSEMBLIES		
	159-318162	. HANDLE ASSEMBLY, Cockpit enclosure control forward (see figure 74 for next assembly)	Ref	---3
	159-318482	. HANDLE ASSEMBLY, Complete cockpit enclosure control forward (see figure 74 for next assembly)	Ref	-1-
		ATTACHING PARTS		
-1	AN3-10A	. BOLT	1	
-2	AN365-1032	. NUT	1	
-3	AN960-10	. WASHER	1	
-4	AN5-25A	. BOLT	1	
-5	AN365-524	. NUT	1	
		---*---		
-6	159-318164	. . RETAINER, Control switch	1	
-7	138618	. . SWITCH, Snap (Ucinite)	1	
-8	159-318175	. . KNOB ASSEMBLY, Cockpit enclosure control	1	---3
	159-318481	. . KNOB ASSEMBLY, Cockpit enclosure control	1	-1-
	159-318175-3	. . . KNOB, Cockpit enclosure control	1	---3
	159-318481-3	. . . KNOB, Cockpit enclosure control	1	-1-
-9	AN218-5	. . BEARING (Fafnir No. BCP5W11 may be used)	1	
-10	159-318161	. . ARM, Cockpit enclosure control forward bellcrank	2	
	159-318406	. HANDLE ASSEMBLY, Cockpit enclosure control aft inboard complete (see figure 75 for next assembly)	Ref	
-11	AN509-8R8	. . SCREW	2	
-12	AN364-832	. . NUT	2	
-13	AN960D8L	. . WASHER	2	
-14	159-318410	. . PLATE, Cockpit enclosure control handle position index	1	
-15	159-318164	. . RETAINER, Control switch	1	
-16	138618	. . SWITCH, Snap (Ucinite)	1	
-17	159-318155	. . HANDLE ASSEMBLY, Cockpit enclosure control aft inboard	1	
-18	AN200KS3	. . . BEARING	1	

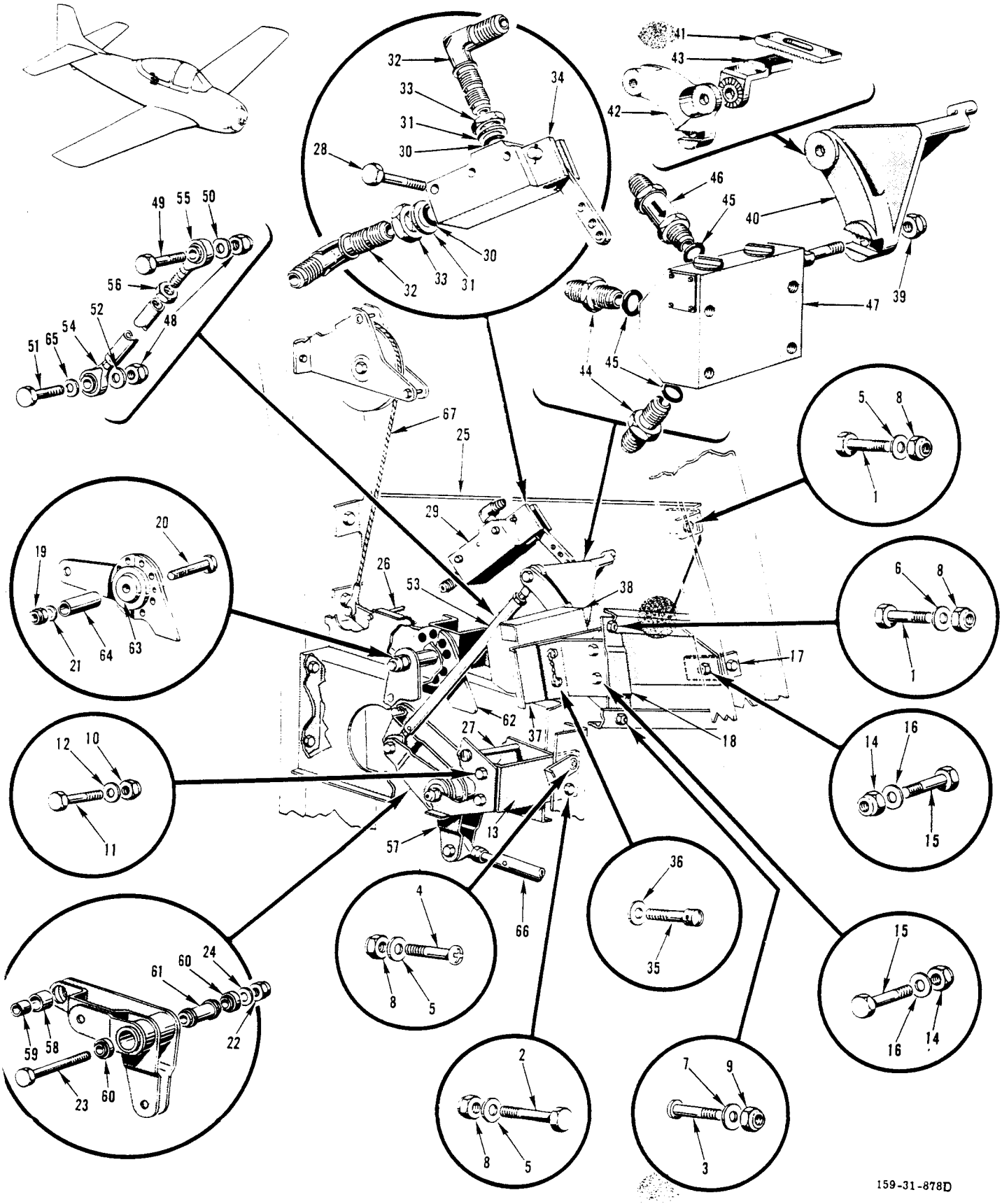


FIGURE 79 - COCKPIT ENCLOSURE CONTROL MECHANISM BRACKET ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
73	No Number	COCKPIT ENCLOSURE CONTROL MECHANISM BRACKET ASSEMBLY (see figure 74 for next assembly)	NP	
	159-318468	. BRACKET ASSY, Cockpit enclosure control mechanism	1	--268
	159-318468-11	. BRACKET ASSY, Cockpit enclosure control mechanism	1	269-283
	159-318468-13	. BRACKET ASSY, Cockpit enclosure control mechanism	1	289-
	ATTACHING PARTS			
-1	AN3-4A	. BOLT	4	
-2	AN3-5A	. BOLT	4	
-3	AN515-8-10	. SCREW	1	
-4	MS9281-12	. SCREW, Brazier head Phillips recess alloy steel 10-32	1	
-5	AN960D10L	. WASHER	7	
-6	AN960-10	. WASHER	2	
-7	AN960D10L	. WASHER	1	
-8	AN365-1032	. NUT	9	
-9	AN315-8R	. NUT	1	
	---*---			
-10	AN365-1032	. . NUT	4	
-11	AN3-4A	. . BOLT	4	
-12	AN960D10	. . WASHER	4	
-13	159-318468-3	. . BRACKET SUB ASSEMBLY, Cockpit enclosure control mechanism	1	
-14	AN365-1032	. . NUT	4	
-15	AN3-4A	. . BOLT	4	
-16	AN960D10	. . WASHER	4	
-17	159-318465-3	. . CLIP, Cockpit enclosure control mech support upper outbd	2	
-18	159-318470	. . CLIP, Cockpit enclosure selector valve support	1	
-19	AN365-428	. . NUT	1	
-20	AN4-22A	. . BOLT	1	
-21	AN960D416	. . WASHER	1	
-22	AN365-832	. . NUT	1	
-23	AN3-21A	. . BOLT	1	
-24	AN960D516	. . WASHER	1	
-25	159-318468-5	. . BRACKET SUB ASSY, Cockpit enclosure control mechanism	1	--268
	159-318468-7	. . BRACKET SUB ASSY, Cockpit enclosure control mechanism	1	269-
-26	MS24-3	. . SPACER, Rivet (North American)	1	
-27	MS20-2DD6-106	. . SPACER, Rivet	1	
-28	AN3-12A	. . BOLT	2	
-29	159-58063	. . VALVE ASSEMBLY, Hyd air canopy emergency complete	1	--268
	171-58073	. . VALVE ASSEMBLY, Hyd emergency air canopy open complete	1	269-
-30	AN6290-4	. . . GASKET	2	1-268
	AN6290-4	. . . GASKET	3	269-
-31	AN6291-4	. . . RING	2	1-268
	AN6291-4	. . . RING	3	269-
-32	AN833-4D	. . . ELBOW	3	1-268
	AN833-4D	. . . ELBOW	3	269-
-33	AN6289D4	. . . NUT	3	1-268
	AN6289D4	. . . NUT	3	269-
-34	840104	. . . VALVE ASSEMBLY, Power control actuator (Walter Kidde)	1	1-268
	870358	. . . VALVE ASSEMBLY, Power control actuator (Walter Kidde)	1	269-
-35	AN502-10-8	. . SCREW	4	
-36	AN960D10L	. . WASHER	4	
-37	159-318471	. . SUPPORT ASSEMBLY, Cockpit enclosure selector valve	1	
-38	159-58045	. . VALVE ASSEMBLY, Hydraulic canopy complete control	1	--268
	159-58045-3	. . VALVE ASSEMBLY, Hydraulic canopy complete control	1	269-
-39	AN364-428	. . . NUT	1	
-40	159-58210	. . . LEVER, Hydraulic canopy selector valve	1	1-268
	171-58210	. . . ARM ASSY, Hyd canopy selector valve adjustable lever	1	269-
-41	171-58212	. . . . ARM, Hyd canopy selector valve adjusting	1	269-
-42	171-58213	. . . . ARM, Hyd canopy selector valve clevis	1	269-
-43	171-58211	. . . . LEVER, Hyd canopy selector valve adjusting	1	269-
-44	AN815-6D	. . . UNION	3	
-45	AN6290-6	. . . GASKET	4	
-46	AN6207-6	. . . VALVE ASSY, 1500 PSI hydraulic check	1	
-47	10150-4	. . . VALVE ASSEMBLY, Four-way selector (Adel Precision)	1	
-48	AN365-1032	. . NUT	2	
-49	AN3-10A	. . BOLT	1	
-50	AN960D10L	. . WASHER	1	
-51	AN3-6A	. . BOLT	1	
-52	AN960D10	. . WASHER	1	
-53	159-318154	. . ROD ASSEMBLY, Cockpit enclosure control valve connecting	1	
	159-318154-5	. . . ROD SUB ASSY, Cockpit encl control valve connecting	1	
-54	RE3ML3A	. . . . ROD END BEARING, Double row self aligning metal shielded male thread (Fafnir Bearing)	1	
-55	RE3ML3A	. . . ROD END BEARING, Double row self aligning metal shielded male thread (Fafnir Bearing)	1	
-56	AN315-3L	. . . NUT	1	
-57	159-318152	. . BELLCRANK ASSY, Cockpit enclosure control valve complete	1	
-58	4B19S5-007	. . . BUSHING, Press fit plain (North American)	1	
-59	4B21S3-008	. . . BUSHING, Spacer (North American)	1	
-60	AN201K5A	. . . BEARING	2	
-61	4S7-7-1.031	. . . SPACER, Flanged dual bearing (North American)	1	
-62	159-318157	. . LEVER ASSEMBLY, Cockpit enclosure by-pass control	1	
-63	AN218-4	. . . BEARING	1	
-64	NAS43DD4-65	. . SPACER, Screw and bolt	1	
-65	AN960C10	. . WASHER	1	
-66	159-318150	TUBE ASSY, Cockpit enclosure control push-pull (see fig. 74)	Ref	
-67	159-318195	CABLE ASSY, Cockpit enclosure by-pass control (see figure 69)	Ref	

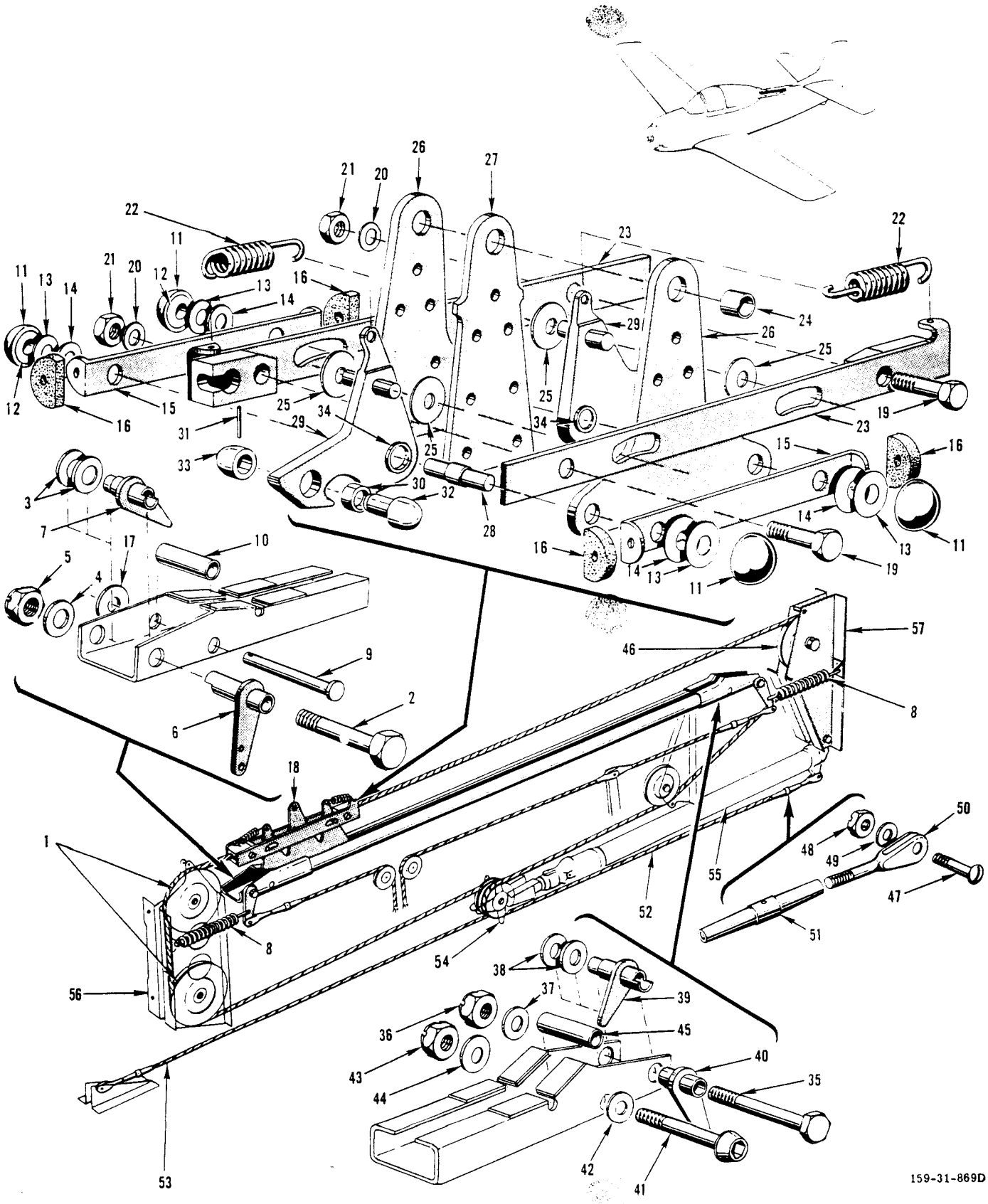


FIGURE 79 - COCKPIT ENCLOSURE AFT CANOPY MECHANISM

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
79	159-31875	CANOPY MECHANISM INSTL, Cockpit enclosure aft (see fig. 83 for next assembly)	NP	
-1	AN210-4A	. PULLEY	2	
-2	AN3-27	. BOLT	1	
-3	AN960-516	. WASHER	2	
-4	AN960-10	. WASHER	1	
-5	AN310-3	. NUT	1	
-6	159-31890-5	. ARM ASSY, Cockpit enclosure locking truck release	1	
-7	159-318495-3	. TRIGGER ASSY, Cockpit enclosure locking truck release	1	
-8	149-52016	. SPRING, Auto-pilot servo disconnect cable	2	
-9	AN394-59	. PIN	1	
-10	159-31894	. ROLLER, Aft cockpit enclosure lock	1	
-11	159-31841-15	. ROLLER ASSY, Cockpit enclosure sliding canopy truck (supersedes 159-31841-3)	4	
-12	4B20B4-006	. . BUSHING, Press fit flanged (North American)	1	
-13	2W1B17-20-32	. WASHER, Plain (North American)	AR	
-14	2W1B17-20-16	. WASHER, Plain (North American)	AR	
-15	159-31834	. WIPER ASSEMBLY, Cockpit enclosure track locking	2	
-16	159-31866-3	. . WIPER, Cockpit enclosure track	2	
-17	AN960-416L	. WASHER	1	
-18	159-31833-10	. TRUCK ASSY, Aft cockpit enclosure locking	1	
-19	AN3-7A	. . BOLT	2	
-20	AN960-10	. . WASHER	2	
-21	AN365-1032	. . NUT	2	
-22	147-31078	. . SPRING, Tension	2	
-23	159-31836	. . STRAP ASSY, Aft cockpit enclosure lock release	2	
-24	4B19B6-012	. . BUSHING, Press fit plain (North American)	1	
-25	2W1B16-15-16	. . WASHER, Plain (North American)	AR	
	159-31833-5	. . TRUCK ASSEMBLY, Aft cockpit enclosure locking	1	
-26	159-31846	. . . PLATE, Cockpit enclosure locking truck frame	2	
-27	159-31847	. . . SPACER, Cockpit enclosure locking truck frame	1	
-28	159-31829-3	. . . PIN, Cockpit enclosure roller	2	
-29	159-318493	. . . LATCH ASSY, Cockpit enclosure 40G lock	2	
-30	4B19B4-008	. . . . BUSHING, Press fit plain (North American)	1	
-31	159-318492	. . . . PIN, Cockpit enclosure 40G lock latch	1	
-32	159-318491	. . . . SHAFT, Cockpit enclosure 40G lock latch roller	1	
-33	159-318490	. . . . ROLLER, Cockpit enclosure 40G lock latch	1	
-34	4B19B5-005	. . . . BUSHING, Press fit plain (North American)	1	
-35	AN3-27	. BOLT	1	
-36	AN310-3	. NUT	1	
-37	AN960-10	. WASHER	1	
-38	AN960-516	. WASHER	2	
-39	159-318495-5	. TRIGGER ASSY, Cockpit enclosure locking truck release	1	
-40	159-31890-3	. ARM ASSY, Cockpit enclosure locking truck release	1	
-41	NAS144A36	. BOLT, Internal wrenching steel 1/4-28 (magnetic inspected)	1	
-42	NAS143-4C	. WASHER, 125,000 to 145,000 PSI countersunk type	1	
-43	AN310-4	. NUT (magnetic inspected)	1	
-44	NAS143-4	. WASHER, 125,000 to 145,000 PSI countersunk type	1	
-45	159-31894	. ROLLER, Aft cockpit enclosure lock	1	
-46	AN210-4A	. PULLEY	1	
-47	AN24-13	. BOLT	1	
-48	AN320-4	. NUT	1	
-49	AN960-416	. WASHER	1	
-50	AN161-32LL	. FORK	1	
-51	AN155-32L	. BARREL	1	
-52	159-31884	. CABLE ASSY, Aft cockpit enclosure opening	1	
-53	159-31883	. CABLE ASSY, Aft cockpit enclosure closing	1	
-54	159-31827	BRACKET ASSY, Cockpit encl actuating cyl pulley (see fig. 133)	Ref	
-55	159-58635	CYLINDER ASSY, Hyd canopy complete operating (see figure 134)	Ref	
-56	159-31830	BRACKET ASSY, Aft cockpit encl fus sta 168 pulley (see fig. 84)	Ref	
-57	159-31831	BRACKET ASSY, Aft cockpit enclosure fuselage station 238 7/8 pulley (see figure 83)	Ref	

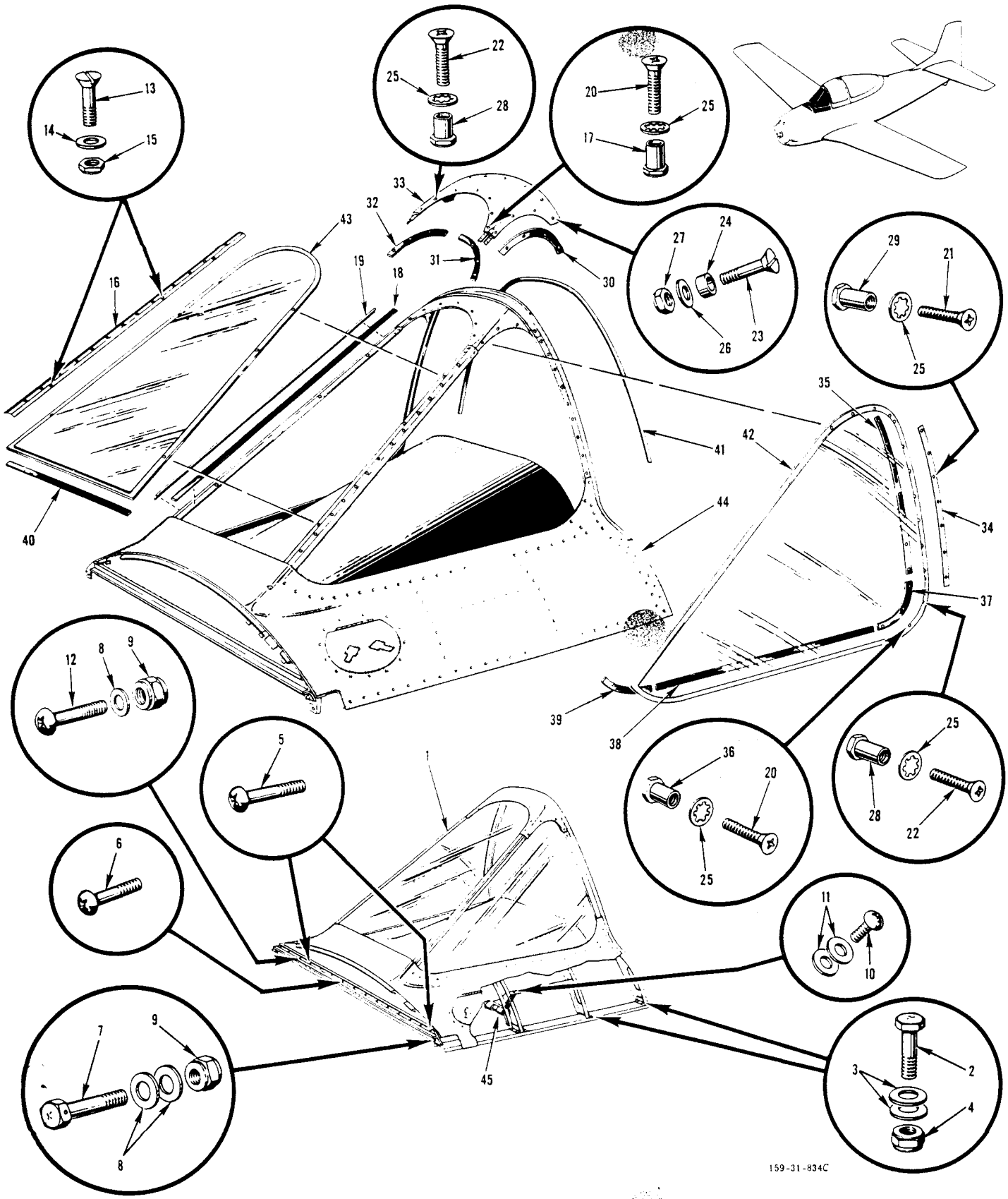


FIGURE 30 - WINDSHIELD ASSEMBLY AND ATTACHING PARTS

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
80	No Number	WINDSHIELD ASSEMBLY AND ATTACHING PARTS (see figure 81 for next assembly)	NP	4-693
-1	159-31851	. WINDSHIELD ASSEMBLY, Complete	1	4-693
	ATTACHING PARTS			
-2	AN3-5A	. BOLT	7	4-693
-3	AN960-10	. WASHER	14	4-693
-4	AN365-1032	. NUT	7	4-693
-5	NAS220-5	. SCREW, Brazier head Phillips recess alloy steel 8-32	4	269-693
	NAS220-10	. SCREW, Brazier head Phillips recess alloy steel 8-32	4	4-268
-6	NAS220-6	. SCREW, Brazier head Phillips recess alloy steel 8-32	11	269-693
	NAS220-9	. SCREW, Brazier head Phillips recess alloy steel 8-32	11	4-268
-7	AN3-7A	. BOLT	2	4-693
-8	AN960-10	. WASHER	5	4-693
-9	AN365-1032	. NUT	3	4-693
-10	NAS221-8	. SCREW, Brazier head Phillips recess alloy steel 10-32	1	4-693
-11	AN960-10	. WASHER	AR	4-693
-12	NAS221-12	. SCREW, Brazier head Phillips recess alloy steel 8-32	2	4-268
	NAS221-11	. SCREW, Brazier head Phillips recess alloy steel 8-32	2	269-693
-13	7016-8-14	. . SCREW, 100° Flush head corrosion resistant (North American)	28	4-693
-14	AN960C8	. . WASHER	4	4-693
-15	AN365-1032	. . NUT (Standard Pressed Steel Co. No. 59FH832)	4	4-693
-16	159-31880-2	. . RETAINER, Cockpit enclosure windshield glass to post RH	1	4-693
	159-31880-1	. . RETAINER, Cockpit enclosure windshield glass to post LH	1	4-693
-17	159-31881-7	. . NUT, Cockpit enclosure windshield glass bow attaching	6	4-693
-18	159-31881-11	. . SEAL, Windshield	2	4-693
-19	159-31881-21	. . SEAL, Windshield	2	4-693
-20	AN507-8R12R10	. . SCREW	9	4-693
-21	AN507-8R8R14	. . SCREW	20	4-693
-22	AN507-8R8R8	. . SCREW	8	4-693
	AN507-8R8R16	. . SCREW	2	4-693
-23	7016-8-10	. . SCREW, 100° Flush head corrosion resistant (North American)	6	4-693
-24	NAS4303-14	. . SPACER, Bolt	2	4-693
-25	AN960C10L	. . WASHER	37	4-693
-26	AN960C8	. . WASHER	8	4-693
-27	AN365-1032	. . NUT (Standard Pressed Steel Co. No. 59FH832)	8	4-693
-28	159-31881-5	. . NUT, Cockpit enclosure windshield glass bow attaching	9	4-693
-29	159-31881-9	. . NUT, Cockpit enclosure windshield glass bow attaching	20	4-693
-30	159-31881-12	. . SEAL, Windshield LH	1	4-693
	159-31881-22	. . SEAL, Windshield RH	1	4-693
-31	159-31881-13	. . SEAL, Windshield LH	1	4-693
-32	159-31881-14	. . SEAL, Windshield RH	1	4-693
-33	159-31821	. . FAIRING ASSEMBLY, Cockpit enclosure windshield post to bow outer	1	4-693
-34	159-31881-3	. . RETAINER, Windshield	2	4-693
-35	159-31881-4	. . SEAL, Windshield	2	4-693
-36	159-31881-5	. . NUT, Cockpit enclosure windshield glass bow attaching	2	4-693
-37	159-31881-7	. . SEAL, Windshield LH	1	4-693
	159-31881-8	. . SEAL, Windshield RH	1	4-693
-38	159-31881-8	. . SEAL, Windshield	2	4-693
-39	159-31881-15	. . SEAL, Windshield LH	1	4-693
	159-31881-16	. . SEAL, Windshield RH	1	4-693
--0	159-31881-17	. . SEAL, Windshield	1	4-693
--1	174-31816-7	. . SEAL, Cockpit enclosure bow (supersedes 117-31850-3 which may be used interchangeably until stock is exhausted)	1	4-693
--2	159-31856-1	. . GLASS, Cockpit enclosure windshield side LH	1	4-693
	159-31856-2	. . GLASS, Cockpit enclosure windshield side RH	1	4-693
--3	159-31855	. . GLASS, Cockpit enclosure windshield front	1	4-693
--4	159-31852	. . FRAME ASSEMBLY, Cockpit enclosure windshield (see figure 82 for detail breakdown)	1	4-693
--5	159-33409	SUPPORT ASSY, Aligning gear forward cockpit handle (Fig. 209).	Ref	

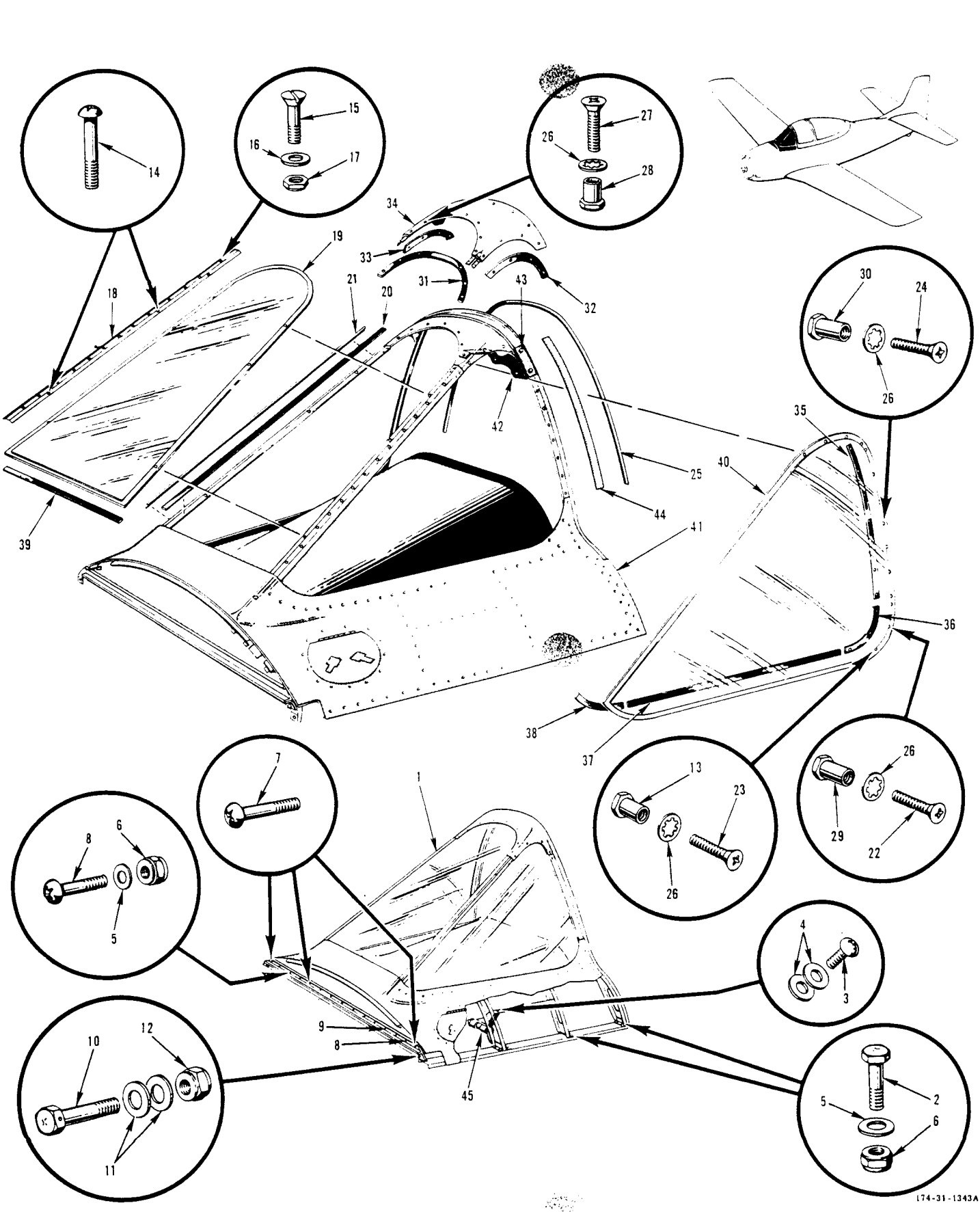


FIGURE 31 - WINDSHIELD ASSEMBLY AND ATTACHING PARTS (AIRPLANES 694-)

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
81	No Number	WINDSHIELD ASSEMBLY AND ATTACHING PARTS (AIRPLANES 694-) (see figure 51 for next assembly)	NP	694-
-1	174-31851	. WINDSHIELD ASSEMBLY, Cockpit enclosure complete	1	694-
		ATTACHING PARTS		
-2	AN3-5A	. BOLT	6	694-
	AN3-6A	. BOLT	10	694-
	NAS221-10	. SCREW, Brazier head Phillips recess alloy steel 10-32	4	694-
-3	NAS221-8	. SCREW, Brazier head Phillips recess alloy steel 10-32	1	694-
-4	AN960D10	. WASHER	AR	694-
-5	AN960D10	. WASHER	21	694-
-6	AN365-1032	. NUT	21	694-
-7	NAS220-9	. SCREW, Brazier head Phillips recess alloy steel 8-32	4	694-
-8	NAS221-11	. SCREW, Brazier head Phillips recess alloy steel 10-32	2	694-
-9	NAS220-8	. SCREW, Brazier head Phillips recess alloy steel 8-32	11	694-
-10	AN3-7A	. BOLT	2	694-
-11	AN960D10	. WASHER	4	694-
-12	AN365-1032	. NUT	2	694-
		---*---		
-13	159-31861-5	. . NUT, Cockpit enclosure windshield glass bow attaching	2	694-
-14	TS16-6-1-	. . SCREW, 100° Flush head corrosion resistant (North American)	28	694-
-15	TS16-8-18	. . SCREW, 100° Flush head corrosion resistant (North American)	4	694-
-16	AN960D8	. . WASHER	4	694-
-17	AN365D832	. . NUT	4	694-
-18	17--31859-2	. . RETAINER, Cockpit enclosure windshield glass to post RH	1	694-
	17--31859-1	. . RETAINER, Cockpit enclosure windshield glass to post LH	1	694-
-19	17--31855	. . GLASS, Cockpit enclosure windshield front	1	694-
-20	17--31851-15	. . SEAL, Windshield	2	694-
-21	17--31851-13	. . SEAL, Windshield	2	694-
-22	TS130N832-8A	. . SCREW (North American)	8	694-
-23	TS130N832-10A	. . SCREW (North American)	8	694-
-24	TS130N832-14A	. . SCREW (North American)	20	694-
-25	17--31816-3	. . SEAL, Cockpit enclosure bow	1	694-
-26	AN936A416B	. . WASHER	32	694-
-27	TS130N832-12A	. . SCREW (North American)	6	694-
-28	159-31861-11	. . NUT, Cockpit enclosure windshield glass bow attaching	2	694-
-29	159-31861-3	. . NUT, Cockpit enclosure windshield glass bow attaching	2	694-
-30	159-31861-9	. . NUT, Cockpit enclosure windshield glass bow attaching	20	694-
-31	17--31851-17	. . SEAL, Windshield RH	1	694-
-32	17--31851-11	. . SEAL, Windshield LH	1	694-
-33	17--31851-12	. . SEAL, Windshield RH	1	694-
-34	17--31875	. . FAIRING, Cockpit enclosure windshield to bow	1	694-
-35	17--31851-3	. . SEAL, Windshield	2	694-
-36	17--31851-5	. . SEAL, Windshield LH	1	694-
	17--31851-6	. . SEAL, Windshield RH	1	694-
-37	17--31851-7	. . SEAL, Windshield	2	694-
-38	17--31851-9	. . SEAL, Windshield LH	1	694-
	17--31851-10	. . SEAL, Windshield RH	1	694-
-39	17--31851-19	. . SEAL, Windshield	1	694-
-40	17--31856-1	. . GLASS, Cockpit enclosure windshield side LH	1	694-
	17--31856-2	. . GLASS, Cockpit enclosure windshield side RH	1	694-
-41	174-31852	. . FRAME ASSEMBLY, Cockpit enclosure windshield (see figure 62 for detail breakdown)	1	694-
-42	174-31018	. . BRACKET, Stand-by compass support	1	694-
-43	159-31861-13	. . NUT, Cockpit encl windshield glass bow attaching (LH only)	2	694-
	159-31861-15	. . NUT, Cockpit encl windshield glass bow attaching (LH only)	1	694-
	TS130N832-16A	. . SCREW (LH only) (North American)	2	694-
-44	17--31860-1	. . RETAINER, Cockpit encl windshield bow side glass LH	1	694-
	17--31860-2	. . RETAINER, Cockpit encl windshield bow side glass RH	1	694-
-45	159-33409	SUPPORT ASSEMBLY, Alighting gear fwd cockpit handle (see figure 209)	Ref	

FUSELAGE (Cont.)

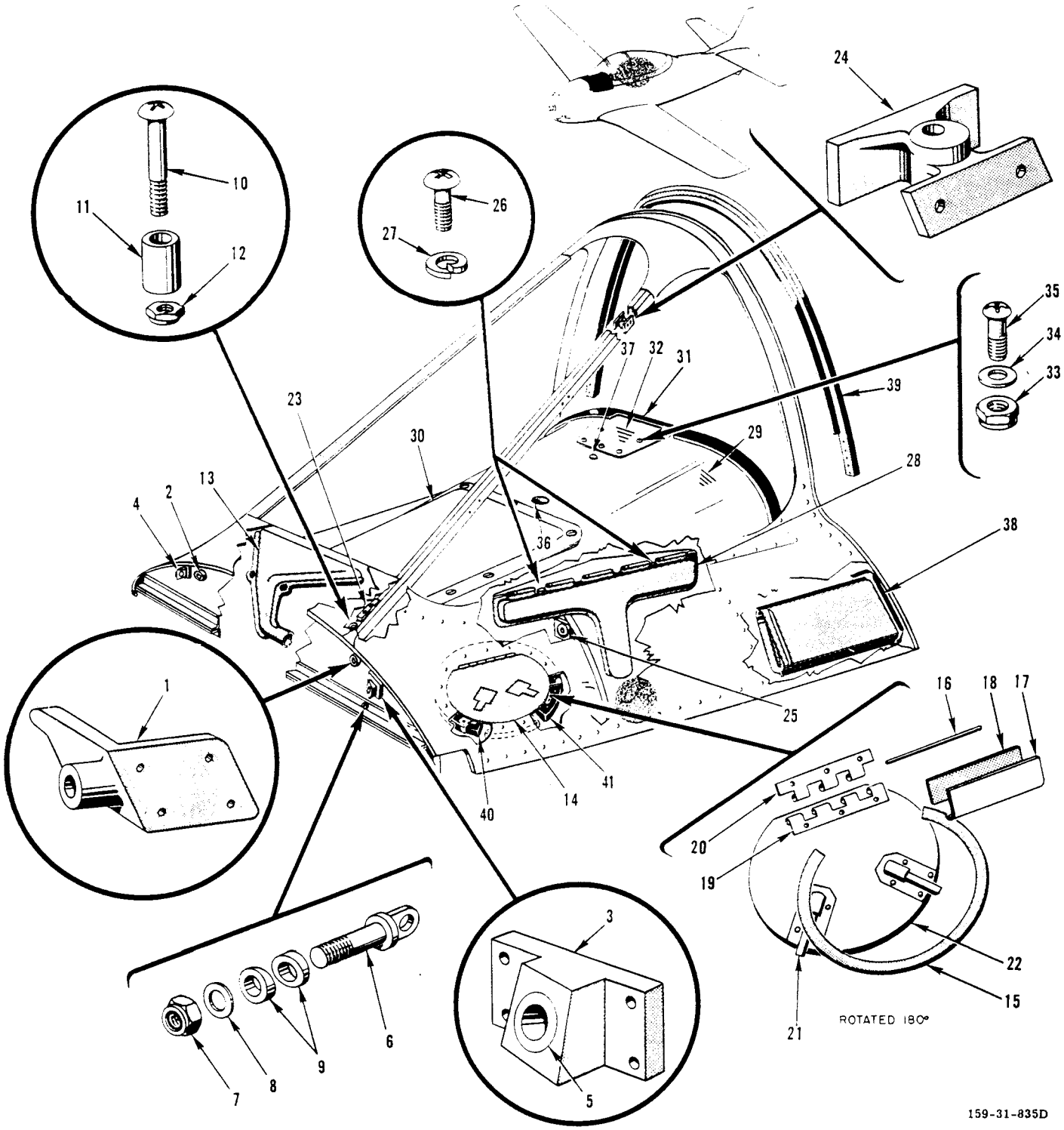
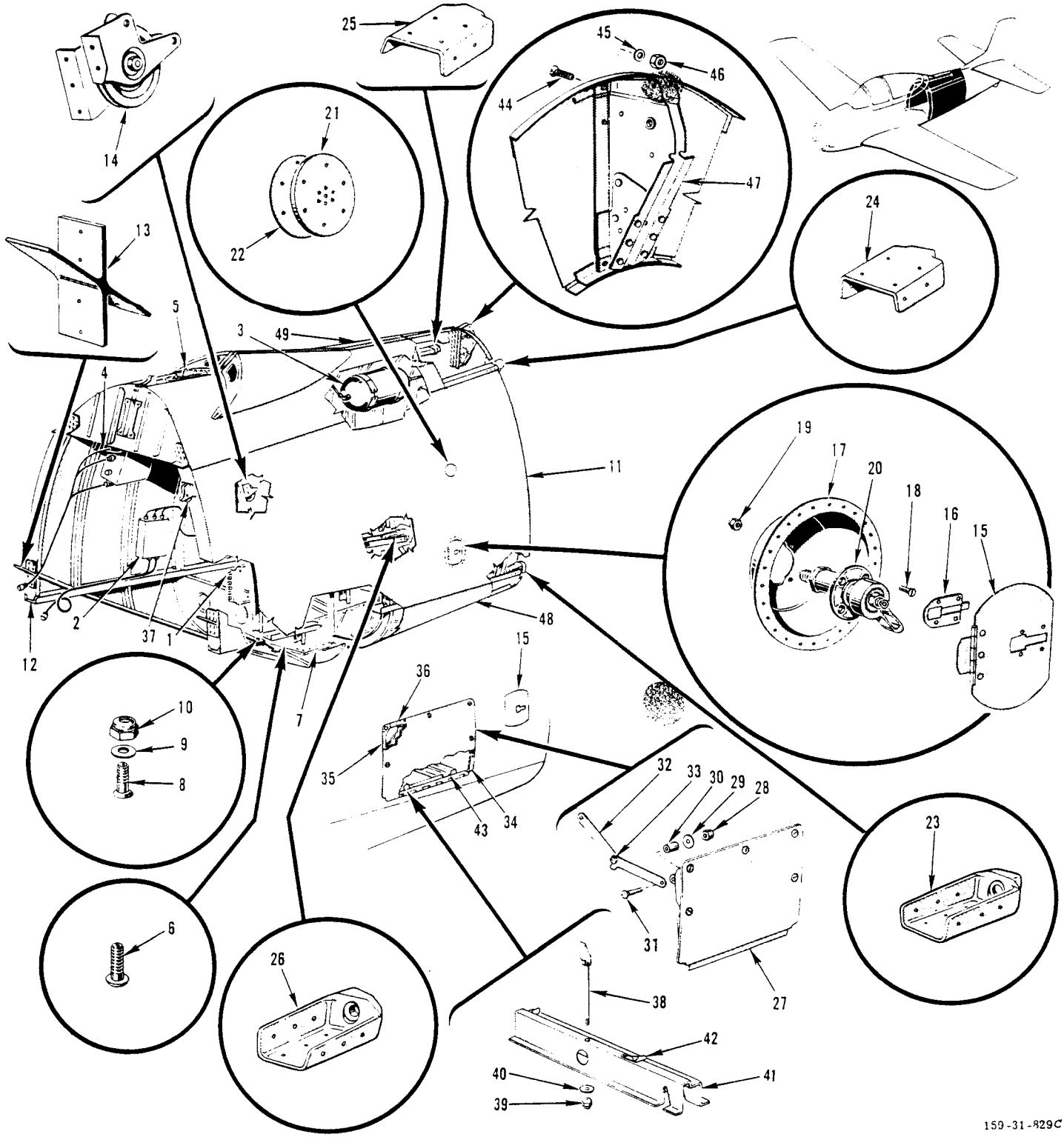


FIGURE 82 - COCKPIT ENCLOSURE WINDSHIELD FRAME ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
82	159-31852	FRAME ASSY, Cockpit encl windshield (see fig. 80 for next assy).	Ref	4-693
	174-31852	FRAME ASSY, Cockpit encl windshield (see fig. 81 for next assy).	Ref	694-
-1	159-318216-1	. FITTING ASSY, Fixed cowl to cockpit encl windshield attach LH	1	
-2	159-318216-2	. FITTING ASSY, Fixed cowl to cockpit encl windshield attach RH	1	
	159-318221	. BULKHEAD ASSY, Cockpit encl windshield canted firewall (superseded by 159-318221-51. 159-318221 may be used interchangeably with 159-318221-51 until stock is exhausted)	1	4-693
	159-318221-51	. BULKHEAD ASSY, Cockpit encl windshield canted firewall . . . (supersedes 159-318221 for future procurement)	1	4-693
	159-318221-101	. BULKHEAD ASSY, Cockpit encl windshield canted firewall . . .	1	694-
-3	159-315409-1	. . SUPPORT ASSY, Engine upper side cowl firewall upper LH . . (used on 159-318221,	1	4-693
	159-315409-11	. . SUPPORT ASSY, Engine upper side cowl firewall upper LH . . (used on 159-318221-51 and -101)	1	

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
82--	159-315409-2	. .	SUPPORT ASSY, Engine upper side cowl firewall upper RH . . (used on 159-318221)	1	--693
	159-315409-12	. .	SUPPORT ASSY, Engine upper side cowl firewall upper RH . . (used on 159-318221-51 and -101)	1	
-5	159-315420-5	. . .	BUSHING, Eng cowling firewall sup. (supersedes -82139-014)	1	
-6	AN43-10A	. .	BOLT	1	
-7	AN365--28	. .	NUT	1	
-8	AN960--416	. .	WASHER	1	
-9	159-58318	. .	WASHER, Hyd sys reservoir mounting bolt tapered	1	
-10	NAS221BZ29	.	SCREW, Brazier head Phillips recess bronze 10-32	2	--693
-11	-S4D6-18	.	SPACER, Rivet (North American)	2	--693
-12	AN364-1032	.	NUT	2	--693
-13	159-53535	.	OUTLET ASSY, Heat and vent sys center windshield defroster .	1	
-14	159-31100	.	DOOR ASSEMBLY, Fuselage station 53 21/32 access	1	
-15	159-31100-11	. .	SEAL, Fuselage station 53 21/32 access door	1	
-16	AN253-2-325	. .	PIN	1	
-17	159-31100-7	. .	RETAINER, Fuselage sta 53 21/32 access door hinge	1	
-18	159-31100-9	. .	SEAL, Fuselage station 53 21/32 access door	1	
-19	159-31100-5	. .	HINGE, Fuselage station 53 21/32 access door	1	
-20	159-31100-15	. .	HINGE, Fuselage station 53 21/32 access door	1	
-21	H5000-2-064--156	. .	LATCH ASSEMBLY, Torsion spring type (Hartwell Aviation . . Supply) (supersedes H-600-064--156)	2	
-22	159-31100-3	. .	DOOR, Fuselage station 53 21/32 access	1	
	159-31857-1	.	POST ASSEMBLY, Cockpit enclosure windshield LH	1	--693
	174-31857-1	.	POST ASSEMBLY, Cockpit enclosure windshield LH	1	694-
	159-31857-2	.	POST ASSEMBLY, Cockpit enclosure windshield RH	1	--693
	174-31857-2	.	POST ASSEMBLY, Cockpit enclosure windshield RH	1	694-
-23	159-31862	. .	BLOCK, Cockpit enclosure windshield skin to post filler. .	1	--693
-24	159-61606	. .	FITTING, A1B Gunsight reflector mtg bracket support . . .	4	--693
	159-318213-1	.	FRAME ASSY, Cockpit encl windshield fus sta 58 1/4 LH	1	--693
	174-31866-1	.	FRAME ASSY, Cockpit encl windshield fus sta 58 1/4 LH (superseded by 174-31866-51 & 174-31866-101. 174-31866-1 may be used interchangeably with 174-31866-51 & 174-31866-101 until stock is exhausted)	1	694-
	174-31866-51	.	FRAME ASSY, Cockpit encl windshield fus sta 58 1/4 LH (supersedes 174-31866-1 and is superseded by 174-31866-101. 174-31866-51 may be used interchangeably with 174-31866-101 until stock is exhausted)	1	694--846
	174-31866-101	.	FRAME ASSY, Cockpit encl windshield fus sta 58 1/4 LH (supersedes 174-31866-1 and 174-31866-51 for future procurement)	1	
	159-318213-2	.	FRAME ASSY, Cockpit encl windshield fus sta 58 1/4 RH	1	--693
	174-31866-2	.	FRAME ASSY, Cockpit encl windshield fus sta 58 1/4 RH (superseded by 174-31866-52 and 174-31866-102. 174-31866-2 may be used interchangeably with 174-31866-52 & 174-31866-102 until stock is exhausted)	1	694-
	174-31866-52	.	FRAME ASSY, Cockpit encl windshield fus sta 58 1/4 RH . . . . (supersedes 174-31866-2 and is superseded by 174-31866-102. 174-31866-52 may be used interchangeably with 174-31866-102 until stock is exhausted)	1	694--846
	174-31866-102	.	FRAME ASSY, Cockpit encl windshield fus sta 58 1/4 RH (supersedes 174-31866-2 & 174-31866-52 for future procurement)	1	
-25	AN8C08D6	. .	INSULATOR (used on 159-31866-1 and 159-31866-2)	1	--693
	6952K	. .	MOUNT, MET-L-FLEX (Robinson Aviation) (used on . . . . . 174-31866-51 and 174-31866-52 only)	1	694--846
	K114	. .	MOUNT, MET-L-FLEX (Robinson Aviation) (used on . . . . . 174-31866-101 and 174-31866-102)	1	
-26	NAS221-8	.	SCREW, Brazier head Phillips recess steel 10-32	2	
-27	AN935-10	.	WASHER	2	
-28	159-53530-1	.	OUTLET ASSY, Heat & vent sys side glass defroster complete LH	1	
	159-53530-2	.	OUTLET ASSY, Heat & vent sys side glass defroster complete RH	1	
-29	159-31854-251	.	SHROUD ASSY, Cockpit encl fwd (supersedes 159-31854, ... 159-31854-101 and 159-31854-201 for future procurement)	1	4-693
	174-31854	.	SHROUD ASSY, Cockpit enclosure forward	1	694-
-30	159-31854-5	. .	COVER, Cockpit enclosure forward	1	4-693
-31	159-31820C8-5	. .	PAD, Cockpit encl snroud (used on 159-31854, -101 & -201).	1	4-693
	17--31894	. .	PAD, Cockpit encl fwd snroud (used on 159-31854-251 and . . 174-31854)	1	
-32	174-61612	. .	COVER ASSY, N6 GSAP Camera access (used on 159-31854-251 . and 174-31854)	1	
	ATTACHING PARTS				
-33	AN365-632	. .	NUT	6	
-34	AN960D6	. .	WASHER	6	
-35	AN515-6R6	. .	SCREW	5	
	AN515-6R8	. .	SCREW	1	
	---*---				
-36	48189	. .	PLUG BUTTON (United-Carr)	1	
-37	48153	. .	PLUG BUTTON (United-Carr)	1	
-38	159-53567-1	.	DUCT ASSY, Heat & vent sys defroster bow line frame attach LH	1	
	159-53567-2	.	DUCT ASSY, Heat & vent sys defroster bow line frame attach RH	1	
-39	159-31853	.	BOW, Cockpit enclosure windshield	1	4-693
	174-31853	.	BOW, Cockpit enclosure windshield	1	694-
	159-31703	.	DOUBLER ASSY, Fus sta 53 21/32 access door	1	
-40	159-31703-5	. .	FILLER, Fus sta 53 21/32 access door doubler	1	
-41	159-31703-7	. .	FILLER, Fus sta 53 21/32 access door doubler	1	



159-31-829C

FIGURE 33 - INTERMEDIATE SECTION STATION 168 TO 238 7/8 FUSELAGE ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
33	159-31611	FUSELAGE ASSEMBLY, Intermediate section station 168 to 238 7/8. complete (see figure 51 for next assembly)	Ref	
	159-31131	. INSTRUMENT EQUIPMENT INSTL, Fuselage sta 168 to sta 238 7/8. (see figure 28 for detail breakdown)	NP	
	159-33013	. RELIEF TUBE INSTL, Fus sta 168 to sta 238 7/8 RH sid.. . . . panel (see figure 186 & item for detail breakdown)	NP	
-1	159-58011	. HYD EQUIPMENT INSTL, Fus sta 168 to sta 238 7/8 (see fig.. . 120, 134, 135 and 136 for detail breakdown)	NP	
-2	159-71131	. RADIO EQUIPMENT INSTL, Fus sta 168 to sta 238 (see fig.. . . 174, 176 and 178 for detail breakdown)	NP	-268
	171-71131	. RADIO EQUIPMENT INSTL, Fus sta 168 to sta 238 (see fig.. . . 175, 177, and 179 for detail breakdown)	NP	269-293

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
83	174-71131	.	RADIO EQUIP. INSTL, Fus sta 168 to sta 238 (see figure 180, 181, and 182 for detail breakdown)	NP	594-843
	174-71191	.	RADIO EQUIP. INSTL, Fus sta 168 to 238 (see figure 177A, 180A, 181A & 182A for detail breakdown)	NP	844-
-3	159-73332	.	OXYGEN SYSTEM EQUIP. INSTL, Fus rear (see fig. 189A)	NP	4-268
	159-73332-30	.	OXYGEN SYSTEM EQUIP. INSTL, Fus rear (see fig. 189A)	NP	269-
--	159-54032	.	ELEC EQUIP INSTL, Fus sta 168 to 238 7/8 (see fig. 187)	NP	4-268
	171-54032	.	ELEC EQUIP INSTL, Fus sta 168 to 238 7/8 (see fig. 188)	NP	269-
-5	159-31075	.	CANOPY MECH INSTL, Cockpit encl aft (see fig. 79)	NP	
-6	MAS220-6	.	SCREW, Brazier head Phillips recess alloy steel 6-32	36	
-7	159-71140	.	COVER, Marker beacon antenna fuselage	1	
	159-31108	.	FRAME ASSEMBLY, Fus sta 168 to sta 238 5/8	Ref	
-8	AN509--10-16	. .	SCREW (Magnetic inspected)	4	
-9	AN960--10	. .	WASHER	4	
-10	AN365--1028	. .	NUT	4	
-11	159-31106	. .	PANEL ASSY, Fus sta 168 to sta 238 7/8 LH side	1	4-268
	159-31106-101	. .	PANEL ASSY, Fus sta 168 to sta 238 7/8 LH side	1	269-
-12	159-31107	. .	PANEL ASSY, Fus sta 168 to sta 238 7/8 RH side	1	4-268
	159-31107-101	. .	PANEL ASSY, Fus sta 168 to sta 238 7/8 RH side	1	269-593
	159-31107-151	. .	PANEL ASSY, Fus sta 168 to sta 238 7/8 RH side	1	594-843
	159-31107-201	. .	PANEL ASSY, Fus sta 168 to sta 238 7/8 RH side	1	844-
-13	159-31402	. . .	FITTING, Fuselage station 168 frame splice	1	
	159-31198	. . .	FRAME ASSEMBLY, Fuselage station 177 3/4 LH side	1	
	159-318177	. . . .	BRACKET ASSY, Cockpit enclosure Fus sta 177 3/4 by-pass control pulley (left side only)	1	
-14	AN210-2A	. . . . .	PULLEY	1	
-15	159-31011	. . .	DOOR ASSY, Fus sta 217 to 226 3/4 oxygen filler valve (left side only)	1	4-268
	159-31011-51	. . .	DOOR ASSY, Fus sta 217 to sta 226 3/4 oxygen filler valve (left side only)	1	269-
-16	H5000-2-064-064	. . . .	LATCH ASSY, Torsion spring type (supersedes H-5000-2-06-06) (Hartwell Aviation Supply)	1	
	159-73308	. . .	SUP. ASSY, Oxy filler valve complete (left side only)	1	
	159-73308-11	. . . .	SUPPORT ASSY, Oxygen filler valve complete	1	
-17	159-73307	. . . . .	SUPPORT, Oxygen filler valve	1	
-18	AN509-10R8	. . . .	SCREW	4	
-19	AN365-1032	. . . .	NUT	4	
-20	AN6024--6	. . . .	VALVE ASSY, Low pressure oxygen filler (GFAE) (AERNO 60-2910)	1	4-268
-21	+2A13995	. . .	TUBE, Static press. (GFAE) (AERNO 60-2700)	1	
-22	+2A11521	. . .	PLATE, Flush static pressure tube backing (GFAE)	1	
	159-31222	. . .	LONGERON ASSY, Fus sta 168 to sta 238 7/8 lower LH	1	4-268
	159-31222-101	. . .	LONGERON ASSY, Fus sta 168 to sta 238 7/8 lower LH	1	269-
-23	159-31113-3	. . . .	FITTING, Fus sta 238 7/8 lower longeron splice LH	1	
	159-31220	. . .	LONGERON ASSY, Fus sta 168 to sta 238 7/8 upper LH	1	
-24	159-31111--3	. . . .	FITTING, Fus sta 238 7/8 upper longeron splice LH	1	
	159-31221	. . .	LONGERON ASSY, Fus sta 168 to sta 238 7/8 RH upper	1	
-25	159-3111---	. . . .	FITTING, Fus sta 238 7/8 upper longeron splice RH	1	
	159-31223	. . .	LONGERON ASSY, Fus sta 168 to sta 238 7/8 lower RH	1	4-268
	159-31223-101	. . .	LONGERON ASSY, Fus sta 168 to sta 238 7/8 lower RH	1	269-
-26	159-31113--	. . . .	FITTING, Fus sta 238 7/8 lower longeron splice RH	1	
-27	171-31010	. . .	DOOR ASSY, Fus sta 217 battery access (left side only)	1	269-
	171-31033	. . . .	FITTING, Fus sta 217 access door strap attaching	2	269-
-28	AN365-1032	. . .	NUT (Left side)	4	269-
-29	2W1-12-20-63	. . .	WASHER, Plain (Left side) (North American)	4	269-
-30	+B21S3-004	. . .	BUSHING, Spacer (Left side) (North American)	4	269-
-31	AN509-10R9	. . .	SCREW (Left side)	4	269-
-32	171-31032-1	. . .	STRAP ASSY, Fus sta 217 access door sup. LH (left side)	1	269-
	171-31032-2	. . .	STRAP ASSY, Fus sta 217 access door sup. RH (left side)	1	269-
-33	+B21S3-007	. . . .	BUSHING, Spacer (North American)	1	269-
-34	159-31106-25	. . .	SEAL, Fuselage sta 217 battery access door	1	269-
-35	159-31106-27	. . .	SEAL, Fuselage sta 217 battery access door	1	269-
-36	159-31106-29	. . .	SEAL, Fuselage sta 217 battery access door	1	269-
	159-31191	. . .	FRAME ASSY, Fus sta 168 LH side	1	
	159-318475	. . . .	BRACKET ASSY, Cockpit encl Fus sta 168 by-pass control pulley	1	
-37	AN210-2A	. . . . .	PULLEY	1	
-38	159-54211-11	. .	ROD ASSEMBLY, Electrical battery holddown	2	269-
	AN3156-3	. . .	CLAMP	1	269-
-39	AN310-5	. .	NUT	2	269-555
	174-54051	. .	NUT, Electric battery holddown	2	556-
-40	AN960D516	. .	WASHER	2	269-555
-41	171-54048	. .	SUPPORT ASSEMBLY, Electrical fuselage sta 213 battery	1	269-
-42	171-54048-7	. . .	SPRING, Electrical fuselage sta 213 battery	1	269-
-43	171-54049	. .	SUPPORT ASSEMBLY, Electrical fus sta 223 battery	1	269-
	159-31229	. .	FRAME ASSY, Fuselage sta 238 7/8 forward	1	4-268
	159-31229-101	. .	FRAME ASSY, Fuselage sta 238 7/8 forward	1	269-
-44	AN509-10-11	. . .	SCREW, (upper)	2	
	AN3-5A	. . .	BOLT, (lower)	2	
-45	AN960-10	. . .	WASHER	4	
-46	AN365-1032	. . .	NUT	4	
-47	159-31831	. . .	BRACKET ASSY, Aft cockpit encl Fus sta 238 7/8 pulley	1	
	+B18-4-64	. . . .	BUSHING, Shoulder (North American)	2	
-48	159-31109	. .	DECK ASSY, Fus sta 177 3/4 to 238 7/8 lower (see fig. 84 for detail breakdown)	Ref	
-49	159-31108	. .	DECK ASSY, Fus sta 168 to 238 7/8 upper (see fig. 84)	Ref	

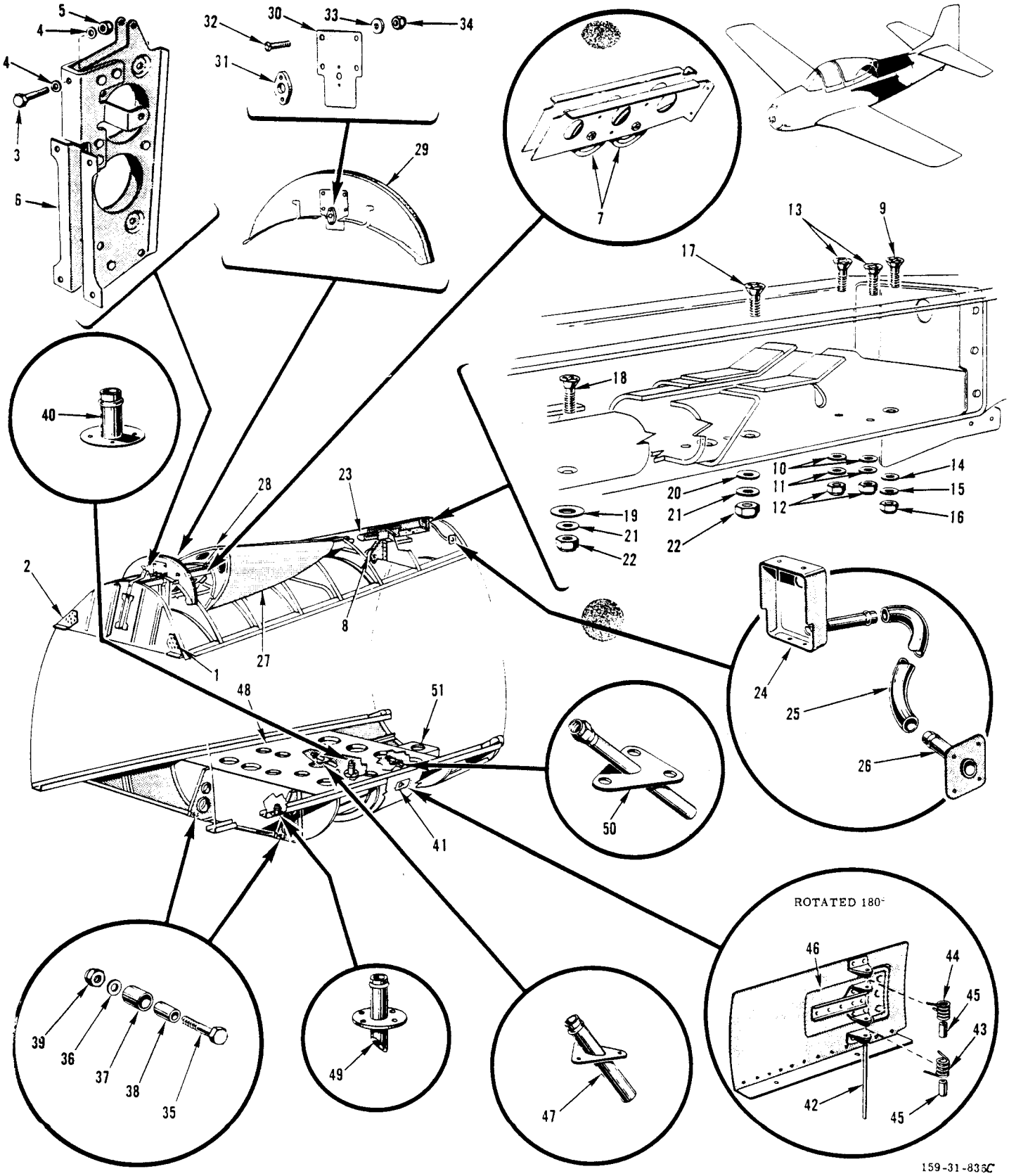


FIGURE 34 - FUSELAGE STATION 168 TO STATION 238 7/8 UPPER AND LOWER DECK ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
34		FUSELAGE STATION 168 TO STATION 238 7/8 UPPER AND LOWER DECK ASSEMBLIES		
	159-31108	. DECK ASSEMBLY, Fuselage station 168 to station 238 7/8 upper (see figure 83 for next assembly)	Ref	
	159-31190	. . BULKHEAD ASSY, Fus sta 170.928 upper canted	1	4-268
	159-31190-151	. . BULKHEAD ASSEMBLY, Fuselage sta 170.928 upper canted (supersedes 159-31190-101)	1	269-
-1	159-31400-1	. . . FITTING, Fuselage station 168 upper longeron to canted frame attaching LH	1	
-2	159-31400-2	. . . FITTING, Fuselage station 168 upper longeron to canted frame attaching RH	1	
-3	AN4-5A	. . BOLT	5	
-4	AN960-416	. . WASHER	6	
-5	AN365-428	. . NUT	5	
-6	159-31830	. . BRACKET ASSY, Aft cockpit encl fus sta 168 pulley	1	
	159-318178	. . BRACKET ASSEMBLY, Cockpit enclosure fuselage station 182 1/2 by-pass control pulley	1	
-7	AN210-2A	. . . PULLEY	2	
	159-31840	. . BRACKET ASSEMBLY, Aft cockpit encl fus sta 226 3/4 pulley	1	
-8	AN210-3A	. . . PULLEY	1	
-9	AN509-10-9	. . BOLT	1	
-10	AN960-10	. . WASHER	3	
-11	2W1C20-20-28	. . WASHER, Plain (North American)	2	
-12	AN365-1032	. . NUT	2	
-13	AN509-10-10	. . SCREW	2	
-14	AN960-10	. . WASHER	1	
-15	2W1C20-20-28	. . WASHER, Plain (North American)	1	
-16	AN365-1032	. . NUT	1	
-17	AN509-416-11	. . SCREW	3	
-18	AN509-416-12	. . SCREW	6	
-19	2W1C40-40-93	. . WASHER, Plain (North American)	5	
-20	2W1C17-20-28	. . WASHER, Plain (North American)	4	
-21	AN960-416	. . WASHER	9	
-22	AN365-428	. . NUT	9	
-23	159-31816	. . TRACK ASSEMBLY, Cockpit enclosure rear canopy aft	1	
-24	159-31735	. . TUBE ASSEMBLY, Fuselage upper deck support channel	1	
-25	159-31108-33	. . TUBE, Rubber	1	
-26	159-31747	. . TUBE ASSEMBLY, Fuselage upper deck drain outlet	1	
-27	159-31305-1	. . FAIRING ASSEMBLY, Fuselage station 178 to station 215 upper deck enclosure LH	1	
-28	159-31305-2	. . FAIRING ASSEMBLY, Fuselage station 178 to station 215 upper deck enclosure RH	1	
	159-318112	. . SEAL ASSEMBLY, Pilot's enclosure aft canopy	1	4-82
	159-318112-100	. . SEAL ASSEMBLY, Pilot's enclosure aft canopy	1	83-
-29	159-318112-7	. . . SEAL, Pilot's enclosure aft canopy	1	
-30	159-318112-11	. . . DOOR, Pilot's enclosure aft canopy	1	4-82
	159-318112-19	. . . DOOR, Pilot's enclosure aft canopy	1	83-
-31	159-318112-9	. . . SEAL, Pilot's enclosure aft canopy	1	4-82
-32	AN515-8R6	. . . SCREW	4	4-82
	AN515-6R8	. . . SCREW	5	83-
-33	AN960C8	. . . WASHER	4	4-82
-34	AN365-832	. . . NUT	4	4-82
	159-31109	. DECK ASSEMBLY, Fuselage station 177 3/4 to station 238 7/8. lower (see figure 83 for next assembly)	Ref	
-35	AN3-10A	. . BOLT	2	
-36	AN960D10	. . WASHER	2	
-37	4S4-6-18	. . SPACER, Rivet (North American)	2	
-38	159-31693	. . ROLLER, Fuselage station 197 3/8 access door latch	2	
-39	AN365-1032	. . NUT	2	
-40	159-54206	. . TUBE ASSEMBLY, Electrical battery vent outlet	1	
-41	159-31012	. . DOOR ASSEMBLY, Fuselage station 209 9/16 external power receptacle access	1	
-42	159-31012-11	. . . PIN, Fuselage station 209 9/16 external power receptacle access	1	
-43	159-31067-1	. . . SPRING, Fuselage station 209 9/16 power receptacle. access door LH	1	
-44	159-31067-2	. . . SPRING, Fuselage station 209 9/16 power receptacle. access door RH	1	
-45	NAS42DD4-50	. . . SPACER, Rivet	2	
-46	159-31012-3	. . . DOOR, Fuselage station 209 9/16 external power receptacle access	1	
-47	159-53039	. . TUBE ASSEMBLY, Exit relief	1	
-48	159-31230	. . SHELF ASSEMBLY, Fuselage station 197 3/8 to station. 226 3/4 radio equipment mounting	1	4-268
	171-31230	. . SHELF ASSEMBLY, Fuselage station 197 3/8 to station. 226 3/4 radio equipment mounting	1	269-342
	171-31230-101	. . SHELF ASSEMBLY, Fuselage station 197 3/8 to station. 226 3/4 radio equipment mounting	1	343-593
	171-31230-151	. . SHELF ASSEMBLY, Fuselage station 197 3/8 to station. 226 3/4 radio equipment mounting	1	594-
-49	171-54063	. . TUBE ASSEMBLY, Electrical battery vent inlet	1	269-
-50	171-58251	. . TUBE ASSEMBLY, Hydraulic canopy emergency air overbd vent	1	269-
-51	171-54051	. . SUPPORT ASSY, Elec battery jar and relay	1	269-
	117-54083	. . . SHEET, Battery sump bottle supporting	1	269-

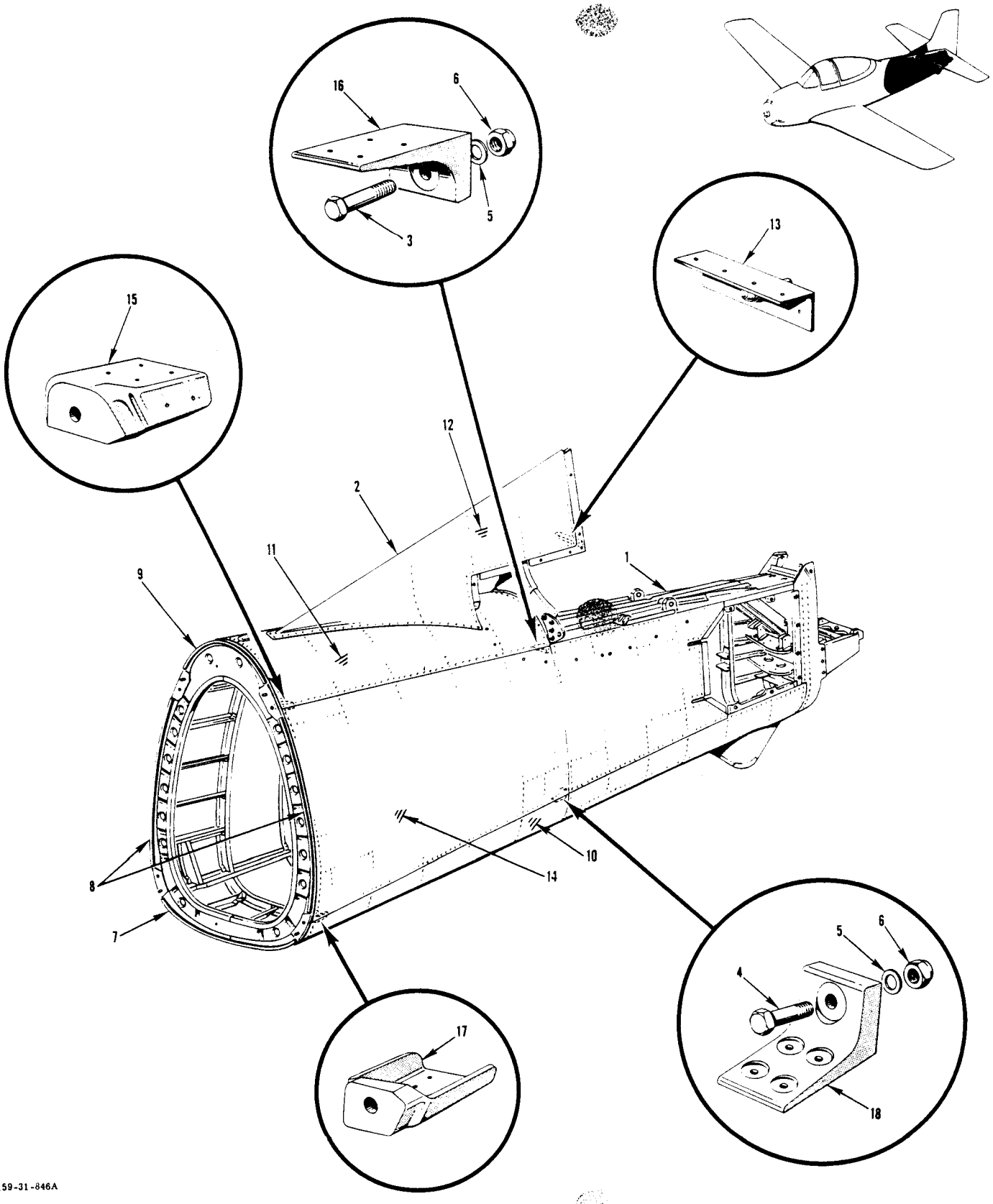


FIGURE 85 - STATION 238 7/8 TO STATION 338 7/8 FUSELAGE ASSEMBLY

FUSELAGE (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
85	159-31301	FUSELAGE ASSEMBLY, Fuselage station 238 7/8 to station 338 3/8 complete (see figure 55 for next assembly)	Ref	4-160
	159-31301-101	FUSELAGE ASSEMBLY, Fuselage station 238 7/8 to station 338 3/8 complete (see figure 55 for next assembly)	Ref	161-545
	159-31301-151	FUSELAGE ASSEMBLY, Fuselage station 238 7/8 to station 338 3/8 complete (see figure 55 for next assembly)	Ref	546-
-1	159-31303	. FRAME ASSEMBLY, Fuselage station 289 1/2 to station 338 3/8 (see figure 86 for detail breakdown)	1	4-160
	159-31303-101	. FRAME ASSEMBLY, Fuselage station 289 1/2 to station 338 3/8 (see figure 86 for detail breakdown)	1	161-268
	159-31303-131	. FRAME ASSEMBLY, Fuselage station 289 1/2 to station 338 3/8 (see figure 86 for detail breakdown)	1	269-545
	159-31303-151	. FRAME ASSEMBLY, Fuselage station 289 1/2 to station 338 3/8 (see figure 86 for detail breakdown)	1	546-
-2	159-31302	. FRAME ASSEMBLY, Fuselage station 238 7/8 to station 289 1/2	1	
	ATTACHING PARTS			
-3	AN5-12A	. BOLT (Magnetic inspected)	2	
-4	AN5-11A	. BOLT (Magnetic inspected)	2	
-5	AN960-516	. WASHER	6	
-6	AN365-524	. NUT	4	
	---*---			
-7	159-31302-7	. . SEAL, Fuselage station 238 7/8 to station 289 1/2	1	
-8	159-31302-3	. . SEAL, Fuselage station 238 7/8 to station 289 1/2	2	
-9	159-31302-5	. . SEAL, Fuselage station 238 7/8 to station 289 1/2	1	
-10	159-31309	. . DECK ASSEMBLY, Fuselage station 238 7/8 to station 289 1/2 lower	1	
-11	159-31308	. . DECK ASSEMBLY, Fuselage station 238 7/8 to station 289 1/2 upper	1	
-12	159-31325	. . . DORSAL FIN ASSEMBLY, Fuselage station 249 to station 301 17/32	1	
-13	159-311108	. . . . ANGLE ASSEMBLY, Fuselage station 301 17/32 dorsal fin	1	
-14	159-31304-1	. . PANEL ASSEMBLY, Fuselage station 238 7/8 to station 289 1/2 side LH	1	
	159-31304-2	. . PANEL ASSEMBLY, Fuselage station 238 7/8 to station 289 1/2 side RH	1	
	159-31320-1	. . . LONGERON ASSEMBLY, Fuselage station 238 7/8 to station 289 1/2 upper LH	1	
	159-31320-2	. . . LONGERON ASSEMBLY, Fuselage station 238 7/8 to station 289 1/2 upper RH	1	
-15	159-31114-5	. . . . FITTING, Fuselage station 238 7/8 upper longeron splice LH	1	
	159-31114-6	. . . . FITTING, Fuselage station 238 7/8 upper longeron splice RH	1	
-16	159-31317-1	. . . . FITTING, Upper longeron splice fuselage station 289 1/2 forward LH	1	
	159-31317-2	. . . . FITTING, Upper longeron splice fuselage station 289 1/2 forward RH	1	
	159-31321-1	. . . LONGERON ASSEMBLY, Fuselage station 238 7/8 to station 289 1/2 lower LH	1	
	159-31321-2	. . . LONGERON ASSEMBLY, Fuselage station 238 7/8 to station 289 1/2 lower RH	1	
-17	159-31113-5	. . . . FITTING, Fuselage station 238 7/8 lower longeron splice LH	1	
	159-31113-6	. . . . FITTING, Fuselage station 238 7/8 lower longeron splice RH	1	
-18	159-31318-1	. . . . FITTING, Lower longeron splice fuselage station 289 1/2 forward LH	1	
	159-31318-2	. . . . FITTING, Lower longeron splice fuselage station 289 1/2 forward RH	1	

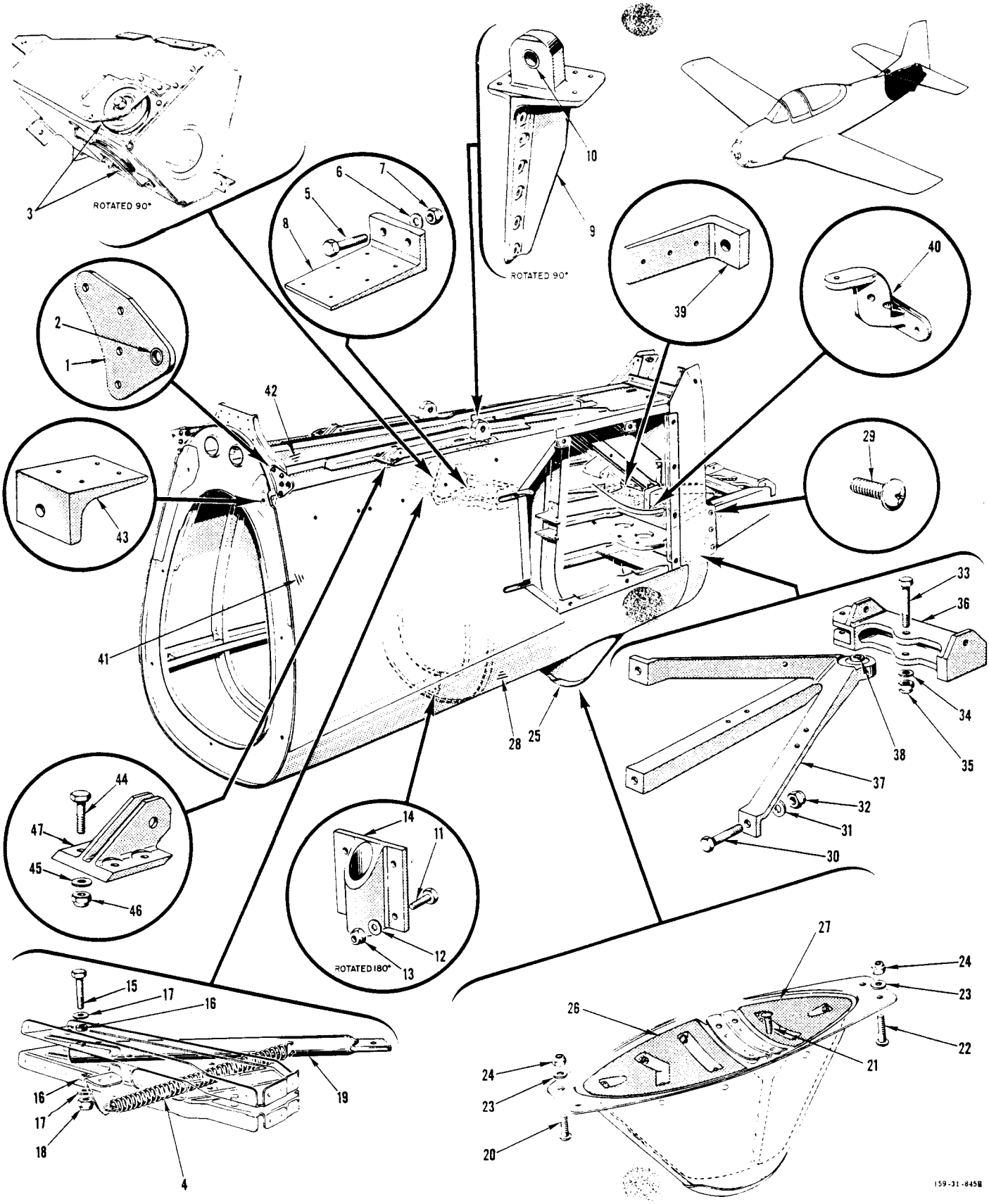


FIGURE 86 - FUSELAGE STATION 289 1/2 TO STATION 338 3/8 FRAME ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
36	159-31303		FRAME ASSEMBLY, Fuselage station 289 1/2 to station 338 3/8. . . (see figure 85 for next assembly)	Ref	-160
	159-31303-101		FRAME ASSEMBLY, Fuselage station 289 1/2 to station 338 3/8. . . (see figure 85 for next assembly)	Ref	161-268
	159-31303-131		FRAME ASSEMBLY, Fuselage station 289 1/2 to station 338 3/8. . . (see figure 85 for next assembly)	Ref	269-545
	159-31303-151		FRAME ASSEMBLY, Fuselage station 289 1/2 to station 338 3/8. . . (see figure 85 for next assembly)	Ref	546-
	159-31347		. FRAME ASSEMBLY, Fuselage station 289 1/2.	1	
-1	159-21409-7		. . SUP., Hor stab. front beam to fus attaching LH . . . . . (supersedes 159-21409-1 which may be used interchangeably until stock is exhausted)	1	
	159-21409-8		. . SUP., Hor stab. front beam to fus attaching RH . . . . . (supersedes 159-21409-2 which may be used interchangeably until stock is exhausted)	1	
-2	+B19S6-006		. . . BUSHING, Press fit flanged (North American) (Used . . . on 159-21409-1 and -2 only)	1	
	159-52547		. BRACKET ASSEMBLY, Elevator trim tab control	1	
-3	AN210-2A		. . PULLEY	2	
-4	159-311138		. SPRING, Fus sta 317 empennage access door support tube. . . .	1	
	159-31322		. BULKHEAD ASSEMBLY, Fuselage station 317	1	
-5	AN4-11A		. . BOLT (Magnetic inspected).	4	
-6	AN960-416		. . WASHER	4	
-7	AN365-428		. . NUT	4	
-8	159-31626-1		. . FITTING, Fuselage sta 317 intercostal attaching LH	1	
	159-31626-2		. . FITTING, Fuselage sta 317 intercostal attaching RH	1	
-9	159-31319-5		. . FITTING ASSY, Fus sta 317 empennage attaching LH	1	
	159-31319-6		. . FITTING ASSY, Fus sta 317 empennage attaching RH	1	
-10	+B19S9-024		. . . BUSHING, Press fit flanged (North American)	4	
-11	AN3-6A		. . BOLT	4	
-12	AN960-10		. . WASHER	4	
-13	AN365-1032		. . NUT	4	
-14	159-55003		. . FITTING, Fuselage station 317 mooring attaching.	1	
-15	AN3-11A		. BOLT.	1	
-16	MAS4206-8		. SPACER, Rivet	2	
-17	2M1013-20-32		. WASHER, Plain (North American).	2	
-18	AN365-1032		. NUT	1	
-19	159-31744		. TUBE ASSY, Empennage access door support fus sta 317.	1	
-20	MAS221-10		. SCREW, Brazier head Phillips recess alloy steel 10-32	2	
-21	MAS221-9		. SCREW, Brazier head Phillips recess alloy steel 10-32	4	
-22	MAS221-11		. SCREW, Brazier head Phillips recess alloy steel 10-32	2	
-23	AN960D10		. WASHER.	4	
-24	AN365-1032		. NUT	4	
-25	159-34500		. SKID ASSEMBLY, Tail complete	1	4-268
-26	159-311176	*1	. . WEIGHT, Fuselage sta 331 forward balance	1	4-268
-27	159-311177	*1	. . WEIGHT, Fuselage sta 331 aft balance	1	4-268
	159-34501-10		. . TAIL SKID ASSEMBLY (supersedes 159-34501).	1	4-268
	159-34501-10		. TAIL SKID ASSEMBLY (supersedes 159-34501)	1	269-
-28	159-31312		. DECK ASSEMBLY, Fus sta 289 1/2 to sta 338 3/8 lower	1	
-29	AN526-1032-7		. SCREW	6	
-30	AN4-12A		. BOLT (Magnetic inspected)	3	
-31	AN960D416		. WASHER.	3	
-32	AN365-428		. NUT	3	
	159-23320		. FITTING ASSEMBLY, Vertical stabilizer sta -9 rudder hinge . .	1	4-545
	159-23330		. FITTING ASSEMBLY, Vertical stabilizer sta -9 rudder hinge . .	1	546-
-33	AN4-14A		. . BOLT (Magnetic inspected).	1	4-545
	AN26-22		. . BOLT	1	546-
-34	AN960-416		. . WASHER	1	4-545
	AN960-616		. . WASHER	1	546-
-35	AN365F428		. . NUT (Magnetic inspected)	1	4-545
	AN364-624		. . NUT.	1	546-
-36	159-24404		. . HORN, Rudder	1	4-545
	159-24415		. . HORN, Rudder	1	546-
-37	159-23410		. . FITTING ASSEMBLY, Vertical stab. sta -9 rudder hinge . . .	1	4-545
	159-23413		. . FITTING ASSEMBLY, Vertical stab. sta -9 rudder hinge . . .	1	546-
-38	AN207D4		. . . BEARING	1	4-545
	AN200KP6		. . . BEARING	1	546-
-39	159-31642		. FITTING, Fuselage sta 338 7/8 canted RH upper support	1	
-40	159-52441		. STOP, Rudder control bellcrank.	1	4-545
-41	159-31306		. PANEL ASSEMBLY, Fuselage sta 289 1/2 to sta 338 3/8 canted. . LH side (see figure 87 for detail breakdown)	1	
	159-31307		. PANEL ASSEMBLY, Fuselage sta 289 1/2 to sta 338 3/8 canted. . RH side (see figure 87 for detail breakdown)	1	
-42	159-31310		. DECK ASSEMBLY, Fuselage sta 289 1/2 to sta 338 3/8. . . . . canted upper	1	4-160
	159-31310-101		. DECK ASSEMBLY, Fuselage sta 289 1/2 to sta 338 3/8. . . . . canted upper	1	161-
-43	159-31316-1		. . FITTING, Upper longn splice fus sta 289 1/2 aft LH	1	
	159-31316-2		. . FITTING, Upper longn splice fus sta 289 1/2 aft RH	1	
-44	AN3-6A		. . BOLT	8	
-45	AN960-10		. . WASHER	8	
-46	AN365-1032		. . NUT	8	
-47	159-31640		. . FITTING, Fus sta 307 5/8 empennage strut attaching	2	

*1 Parts marked thus not used on aircraft modified in accordance with T. O. 1T-28-50 to incorporate AN/ARC27 radio equipment.

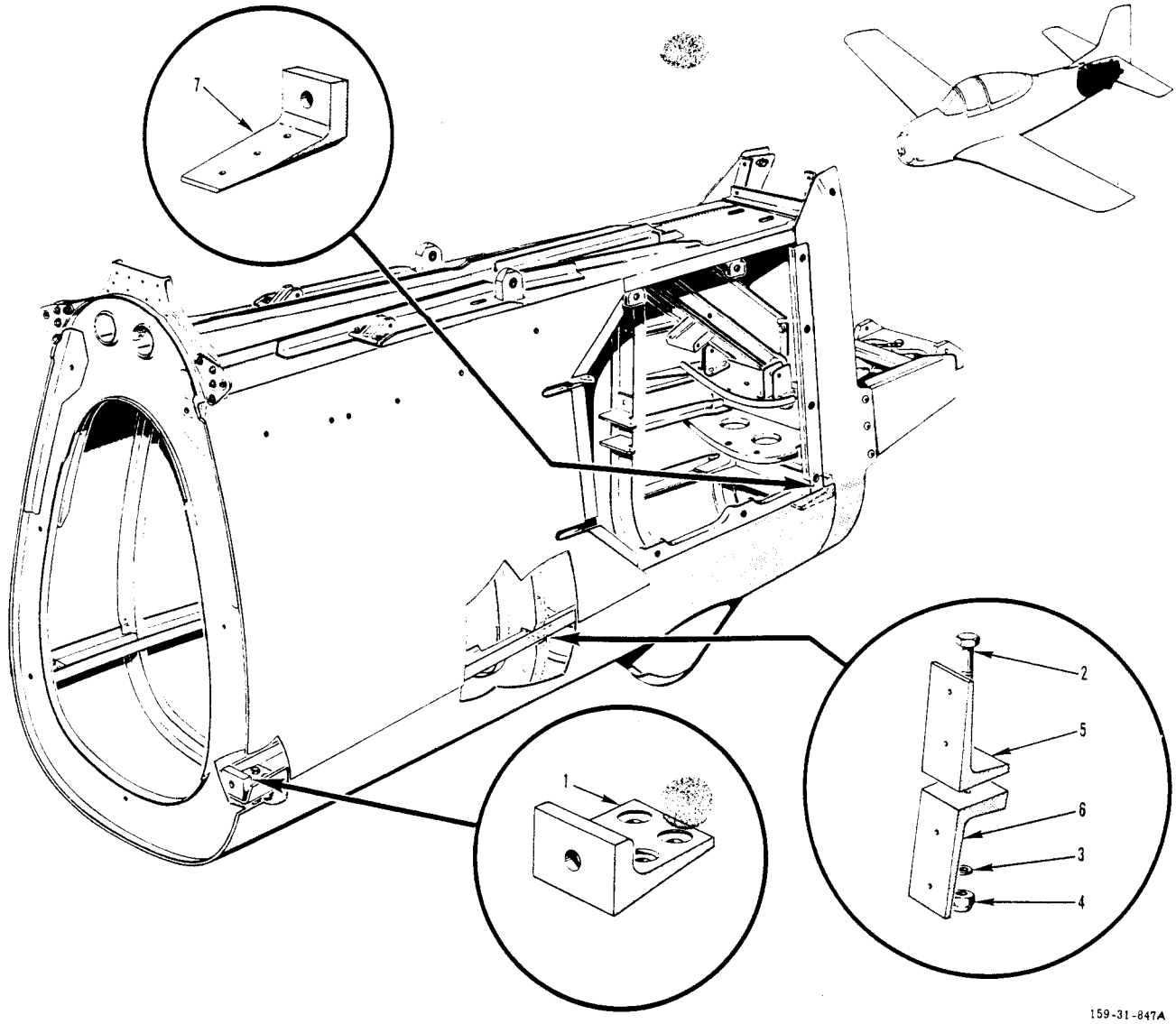
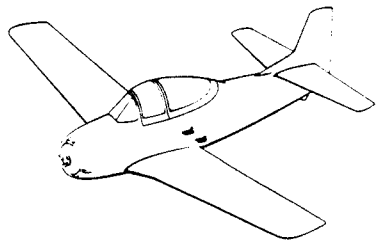
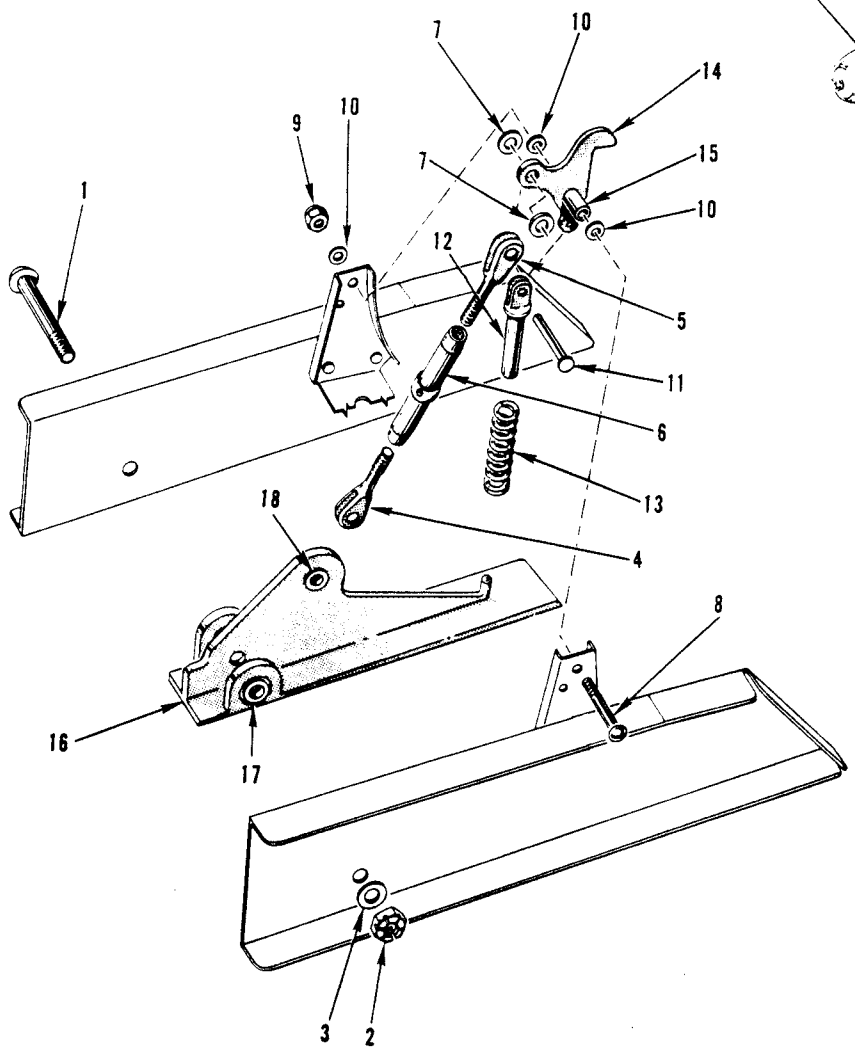


FIGURE 87 - FUSELAGE STATION 289 1/2 TO STATION 338 3/8 CANTED LH AND RH SIDE PANEL ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
87	159-31306	PANEL ASSEMBLY, Fuselage station 289 1/2 to station 338 3/8 canted LH side (see figure 86 for next assembly)	Ref	
	159-31307	PANEL ASSEMBLY, Fuselage station 289 1/2 to station 338 3/8 canted RH side (see figure 86 for next assembly)	Ref	
	159-31422	. LONGERON ASSEMBLY, Fuselage station 289 1/2 to station 338 3/8 canted lower LH	1	
	159-31423	. LONGERON ASSEMBLY, Fuselage station 289 1/2 to station 338 3/8 canted lower RH	1	
-1	159-31315-1	. . FITTING, Lower longeron splice fuselage station 289 1/2 aft LH	1	
	159-31315-2	. . FITTING, Lower longeron splice fuselage station 289 1/2 aft RH	1	
-2	AN3-7A	. . BOLT (magnetic inspected)	2	
-3	AN960-10	. . WASHER	2	
-4	AN365-1032	. . NUT	2	
-5	159-31631-1	. . FITTING, Fuselage frame station 317 lower longeron attaching upper LH	2	
	159-31631-2	. . FITTING, Fuselage frame station 317 lower longeron attaching upper RH	2	
-6	159-31632-1	. . FITTING, Fuselage frame station 317 lower longeron attaching lower LH	2	
	159-31632-2	. . FITTING, Fuselage frame station 317 lower longeron attaching lower RH	2	
-7	159-31643-1	. . FITTING, Fuselage station 338 3/8 lower longeron to frame attaching LH	1	
	159-31643-2	. . FITTING, Fuselage station 338 3/8 lower longeron to frame attaching RH	1	





159-31-862B

FIGURE 88 - FUSELAGE STATION 168 TO STATION 196.5 ACCESS DOOR LATCH ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
88	159-31039-1	LATCH ASSEMBLY, Fuselage station 168 to station 196.5 access door LH (see figure 89 for next assembly)	Ref	
	159-31039-2	LATCH ASSEMBLY, Fuselage station 168 to station 196.5 access door RH (see figure 89 for next assembly)	Ref	
-1	AN24-26	. BOLT	1	
-2	AN320-4	. NUT	1	
-3	AN960-416L	. WASHER	1	
-4	AN161-32LS	. FORK	1	
-5	AN161-32RS	. FORK	1	
-6	AN155-32S	. BARREL	1	
-7	AN960-416L	. WASHER	2	
-8	AN23-24	. BOLT	1	
-9	AN320-3	. NUT	1	
-10	2W17-10	. WASHER, Corrosion resistant steel (North American)	2	
-11	AN392-11	. PIN	1	
-12	159-31040	. PIN, Fuselage sta 168 to sta 196.5 access door latch mechanism spring guide	1	
-13	159-31041	. SPRING, Fus sta 168 to 196.5 access door latch mechanism	1	
-14	159-31036	. HOOK ASSY, Fus sta 168 to 196.5 access door latch mechanism	1	
-15	4B19S3-030	. . BUSHING, Press-fit plain (North American)	1	
-16	159-31037-1	. HANDLE ASSY, Fus sta 168 to 196.5 access door latch mech LH	1	
	159-31037-2	. HANDLE ASSY, Fus sta 168 to 196.5 access door latch mech RH	1	
-17	4B20S4-005	. . BUSHING, Press-fit flanged (North American)	2	
-18	4B19S4-007	. . BUSHING, Press-fit plain (North American)	1	
-19	2W18-10	. WASHER, Flat (North American)	1	

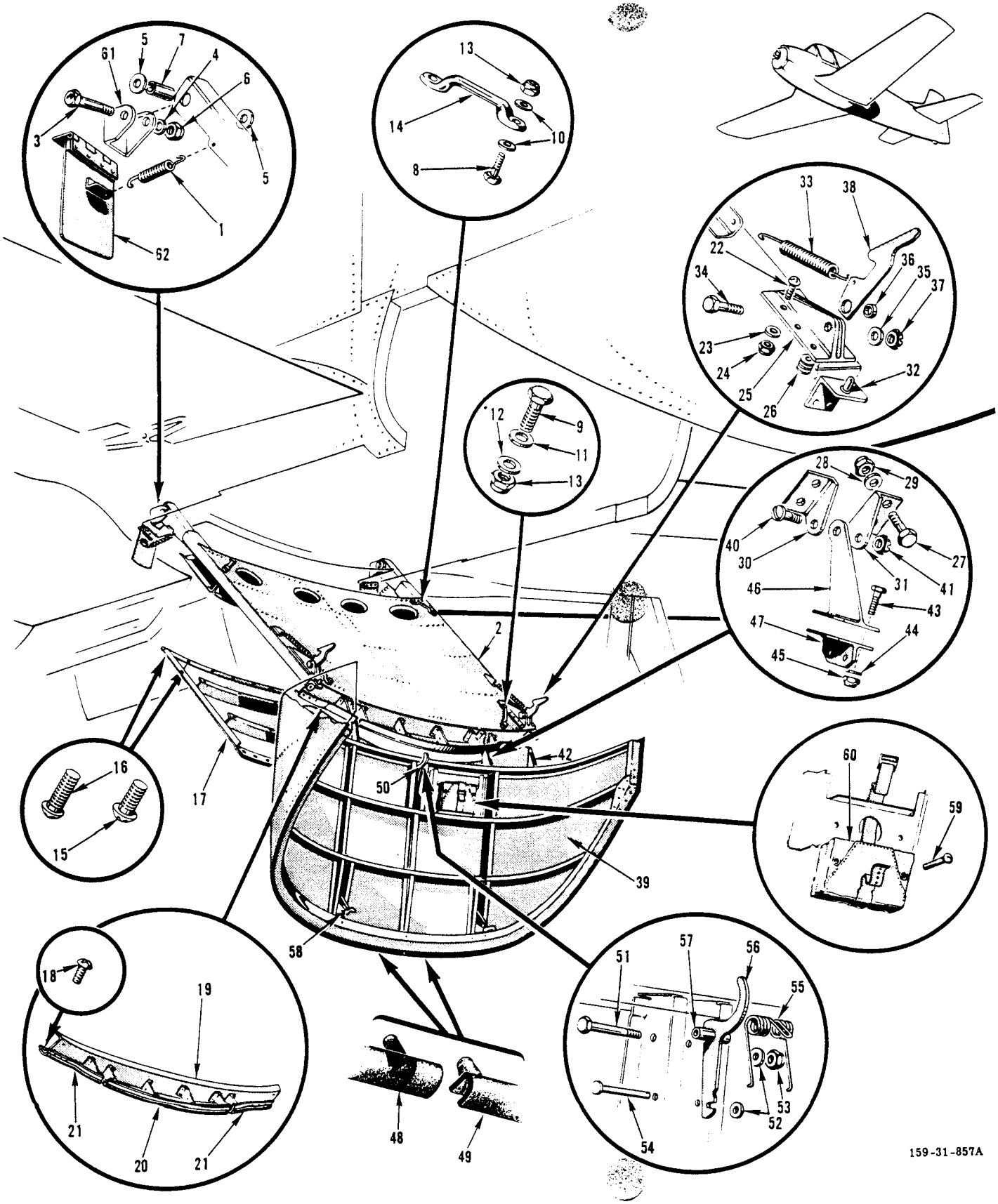


FIGURE 89 - BAGGAGE AND ACCESS DOOR

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
89	159-31002	DOOR INSTALLATION, Baggage & access (see fig. 1 for next assy) .	NP	
-1	142-58646	. SPRING, Hydraulic valve control indicator return	2	
-2	159-31015	. DOOR ASSEMBLY, Fuselage sta 136.5 to station 168 luggage . .	1	
		ATTACHING PARTS		
-3	AN6-17A	. BOLT (Magnetic inspected)	2	
-4	AN960-616	. WASHER.	2	
-5	2W1-34-48-64	. WASHER, Plain (North American).	4	
	2W1-25-24-63	. WASHER, Plain (North American).	2	
-6	AN365-624	. NUT	2	
-7	4S4-12-30	. SPACER, Rivet (North American).	2	
		---*---		
-8	AN3-5A	. . BOLT	4	
-9	AN3-6A	. . BOLT	4	
-10	AN960D10	. . WASHER	8	
-11	AN960-10	. . WASHER	4	
-12	2W1AL12-18-91	. . WASHER, Plain (North American)	2	
-13	AN365-1032	. . NUT	8	
-14	3L1	. . LOOP, Tie down (North American).	4	
-15	MAS221-8	. . SCREW, Brazier head Phillips recess alloy steel 10-32 . .	25	
-16	MAS221-10	. . SCREW, Brazier head Phillips recess alloy steel 10-32 . .	2	
-17	159-31075	. . FAIRING ASSEMBLY, Fuselage luggage door.	1	
-18	MAS221-8	. . SCREW, Brazier head Phillips recess alloy steel 10-32. . .	13	
-19	159-31069	. . FRAME ASSEMBLY, Fuselage sta 166.718 luggage door. . . .	1	
	159-31061	. . . SKIN ASSY, Fus sta 166.718 to 169 5/8 luggage door . .	1	
-20	159-31061-9	. . . . SEAL, Fus sta 166.718 to 169 5/8 luggage door . . .	1	
-21	159-31061-11	. . . . SEAL, Fus sta 166.718 to 169 5/8 luggage door . . .	2	
-22	MAS221-11	. . SCREW, Brazier head Phillips recess alloy steel 10-32. . .	10	
-23	AN960-10	. . WASHER	10	
-24	AN365-1032	. . NUT.	10	
-25	159-31060-1	. . HINGE, Fuselage station 168 luggage door latch LH	1	
	159-31060-2	. . HINGE, Fuselage station 168 luggage door latch RH	1	
-26	2W1AL13-24-12	. . WASHER, Plain (North American)	AR	
-27	MAS221-9	. . SCREW, Brazier head Phillips recess alloy steel 10-32. . .	8	
-28	AN960-10	. . WASHER	8	
-29	AN365-1032	. . NUT.	8	
-30	159-31035-1	. . HINGE, Fus sta 168 to 196.5 access door angle LH	2	
-31	159-31035-2	. . HINGE, Fus sta 168 to 196.5 access door angle RH	2	
-32	159-31087	. . SLIP ASSEMBLY, Fuselage luggage door stop guide.	2	
-33	130-48668	. . SPRING, Luggage door hinge	2	
-34	AN4-6	. . BOLT	2	
-35	AN960-416	. . WASHER	2	
-36	4S4-8-8	. . SPACER, Rivet (North American)	2	
-37	AN310-4	. . NUT	2	
-38	159-31073	. . HOOK, Fuselage luggage door latch	2	
-39	159-31016	. DOOR ASSEMBLY, Fuselage station 168 to sta 196.5 access . . .	1	4-268
	159-31016-50	. DOOR ASSEMBLY, Fuselage station 168 to sta 196.5 access . . .	1	269-
		ATTACHING PARTS		
-40	AN23-10A	. BOLT.	2	
-41	AN365-1032	. NUT	2	
		---*---		
-42	159-311170-7	. . SEAL, Fus baggage door molded	1	
	159-311170-9	. . SEAL, Fus baggage door molded	1	
-43	AN3-5A	. . BOLT	8	
-44	AN960A10L	. . WASHER	8	
-45	AN365-1032	. . NUT.	8	
-46	159-31034	. . HINGE, Fus sta 168 to sta 196.5 access door tee	2	
-47	159-31049	. . SUPPORT, Fus sta 168 to 196.5 access door tee hinge . . .	2	
-48	159-311170-3	. . SEAL, Fuselage baggage door molded	1	
-49	159-311170-5	. . SEAL, Fuselage baggage door molded	1	
-50	159-31042	. . LATCH ASSY, Fus sta 168 to sta 196.5 access door open . .	1	
-51	AN23-24	. . . BOLT.	1	
-52	AN960-10L	. . . WASHER	2	
-53	AN365-1032	. . . NUT	1	
-54	AN393-39	. . . PIN	1	
-55	159-31046	. . . SPRING, Fus sta 168 to 196.5 access door latch	1	
-56	159-31043	. . . HOOK ASSY, Fus sta 168 to 196.5 access door open latch.	1	
-57	4B19B3-104	. . . . BUSHING, Press fit plain (North American).	1	
-58	159-31039-1	. . LATCH ASSEMBLY, Fuselage station 168 to 196.5 access . . . door LH (see figure 88 for detail breakdown)	1	
	159-31039-2	. . LATCH ASSEMBLY, Fuselage station 168 to 196.5 access . . . door RH (see figure 88 for detail breakdown)	1	
-59	AN520-10-8	. . SCREW	2	269-
-60	E1377-50	. . BAG ASSEMBLY, Jacking and mooring	1	269-
-61	159-31068-1	FITTING, Fus sta 136 1/2 luggage door hinge LH (see fig. 52) . .	Ref	
	159-31068-2	FITTING, Fus sta 136 1/2 luggage door hinge RH (see fig. 52) . .	Ref	
-62	159-31713-1	DOOR ASSY, Luggage door & speed brake actuating LH (see fig. 52)	Ref	
	159-31713-2	DOOR ASSY, Luggage door & speed brake actuating RH (see fig. 52)	Ref	

FUSELAGE FUEL (Cont)

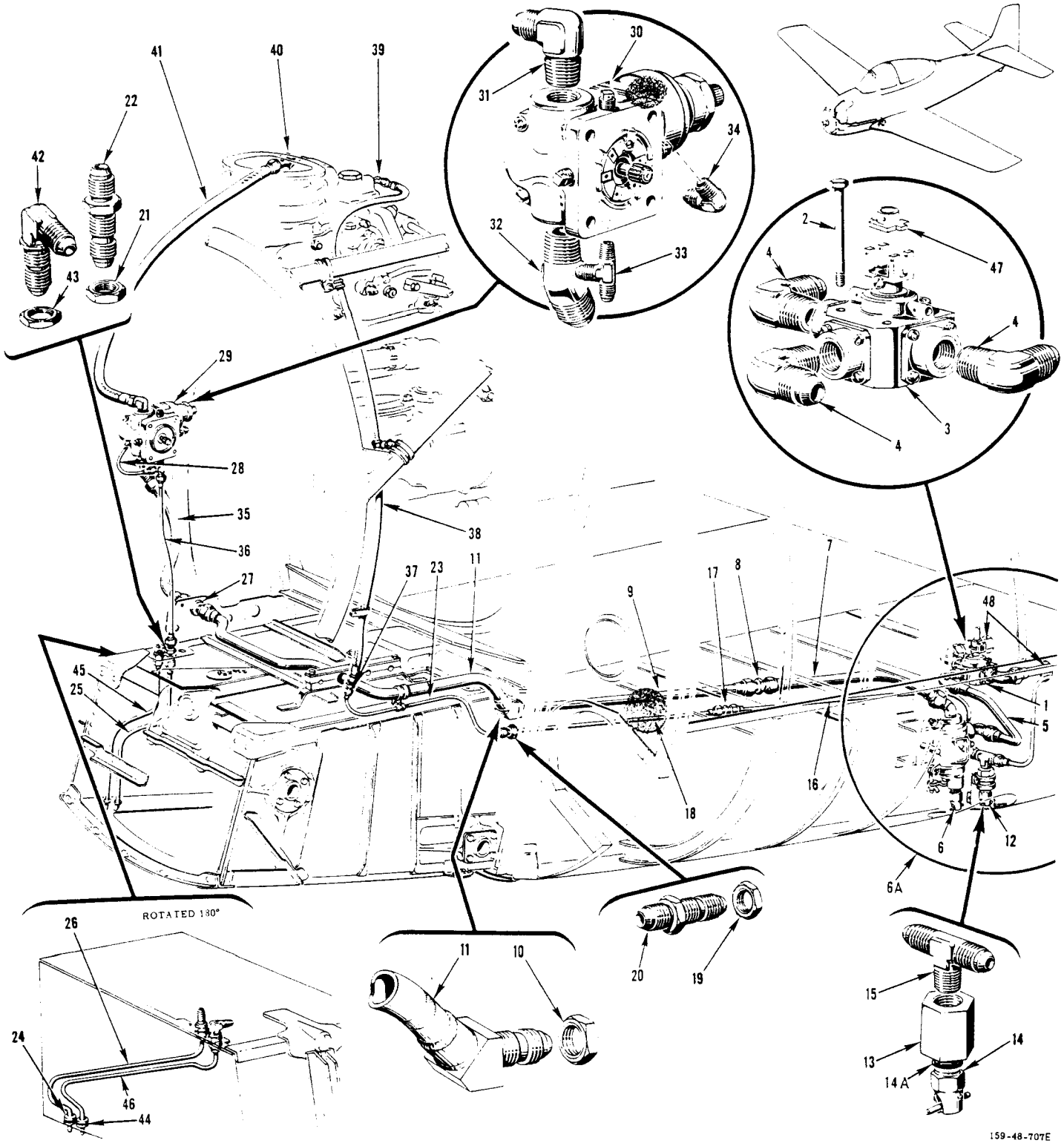


FIGURE 90 - FUSELAGE AND POWER PLANT FUEL SYSTEM AND SUPERCHARGER DRAIN LINE

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
90		FUSELAGE AND POWER PLANT FUEL SYSTEM & SUPERCHARGER DRAIN LINE		
	159---6031	. FUEL SYSTEM EQUIP. INSTL, Fus (see Fig. 91 for next assy) . .	NP	4-393
	17---6125	. FUEL SYS EQUIP. INSTL, Fuselage (see Fig. 91 for next assy) .	NP	394-693
	17---6031	. FUEL SYS EQUIP. INSTL, Fus complete (see Fig. 91 for next assy)	NP	694-
-1	159---601-	. . VALVE ASSEMBLY, MCS fuel system tank selector	1	4-393
		ATTACHING PARTS		
-2	AN3-22A	. . BOLT	3	4-393
		---*---		
-3	1218A	. . . VALVE ASSY, Fuel sel style "J" (Hydro-Aire) (supersedes 1218 for future procurement) (North American dwg 159---601-) . .	1	4-393

FUSELAGE FUEL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1	2	3	4	5	6	7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
90--	AN822-12				.	.				ELBOW	3	4-393
-5	159-48801-11				.	.				LINE ASSY, Main fuel selector valve to strainer	1	4-40
	159--8801-7				.	.				LINE ASSY, Main fuel selector valve to strainer	1	41-393
-6	No Number				.	.				FUSELAGE FUEL STRAINER ASSEMBLY AND ATTACHING PARTS (see figure 93 for detail breakdown)	NP	4-393
-6A	No Number				.	.				FUS FUEL SUMP TANK EQUIP. (see fig. 91 for breakdown)	NP	394-693
	No Number				.	.				FUS FUEL SUMP TANK EQUIP. (see fig. 92 for breakdown)	NP	694-
-7	159--8801-12				.	.				LINE ASSEMBLY, Main fuel strainer to union	1	4-140
	159--8801-21				.	.				LINE ASSEMBLY, Main fuel strainer to union	1	141-
-8	AN815-12D				.	.				UNION	1	
-9	159--8801-13				.	.				LINE ASSEMBLY, Main fuel union to firewall	1	
-10	AN924-12				.	.				NUT	1	
-11	159--8803-10				.	.				LINE ASSEMBLY, Fuel system (supersedes 159--8803 which may be used interchangeably until stock is exhausted)	1	
-12	159--8027				.	.				SUMP ASSY, Fuel fus carb vapor return line (superseded by 159--8027-11. 159--8027 may be used interchangeably with 159--8027-11 until stock is exhausted)	1	4-40
	159--8027-11				.	.				SUMP ASSY, Fuel fus carburetor vapor return line (supersedes 159--8027 for future procurement)	1	4-40
	159--8027-5				.	.				SUMP ASSY, Fuel fus carb. vapor return line (superseded by 159--8027-9. 159--8027-5 may be used interchangeably with 159--8027-9 until stock is exhausted)	1	41-393
	159--8027-9				.	.				SUMP ASSY, Fuel fus carburetor vapor return line (supersedes 159--8027-5 for future procurement)	1	41-393
-13	159-48027-7	*			.	.	.			BODY, Fuel fus carburetor vapor return line sump	1	4-393
-14	83501-1	*			.	.	.			VALVE ASSY, Drain (Koenler Aircraft) (Curtis Automotive Devices No. CCA4300 may be used)	1	4-393
-14A	934-6	*			.	.	.			PACKING	1	4-393
-15	AN825-6				.	.	.			TEE	1	4-40
	AN826-6				.	.	.			TEE	1	41-393
-16	159--8801-38				.	.				LINE ASSY, Carburetor vapor return sump to fwd union	1	4-40
	159--8801-16				.	..				LINE ASSY, Carburetor vapor return sump to fwd union	1	41-140
	159--8801-22				.	.				LINE ASSY, Carburetor vapor return sump to fwd union	1	141-
-17	AN815-6D				.	.				UNION	1	
-18	159--48801--0				.	.				LINE ASSY, Carburetor vapor return union to firewall	1	4-140
	159--48801-23				.	.				LINE ASSY, Carburetor vapor return union to firewall	1	141-
-19	AN924-6				.	.				NUT	1	
-20	AN832-6				.	.				UNION	1	
-21	AN92---				.	.				NUT	1	
-22	AN832--				.	.				UNION	1	
-23	159--8801--1				.	.				LINE ASSY, Carb vapor return firewall to forward reducer	1	
-24	AN931-4-7				.	.				GROMMET	1	21-
-25	159--48801-28				.	.				LINE ASSY, Engine driven fuel pump drain	1	4-20
-26	159--48801-34				.	.				LINE ASSY, Engine driven fuel pump seal drain	1	21-
-27	AN832-12				.	.				UNION	1	
	AN924-12				.	.				NUT	1	
	159-48040				.					FUEL SYS EQUIP. INSTL, Eng sect (see fig. 220 for next assy)	NP	
-28	159-48801-30				.	.				LINE ASSY, Pump supercharger vent fitting to seal drain tee	1	4-40
	159-48801-33				.	.				LINE ASSY, Pump supercharger vent fitting to seal drain tee	1	41-
-29	159-48041-30				.	.				PUMP ASSY, Fuel sys engine driven type G6 (attaching nuts furnished with engine) (supersedes 159--8041, 159-48041-10 and 159-48041-20)	1	
-30	AN4100-1				.	.	.			PUMP ASSY, 200 GPH power driven fuel type G6 (GFAE) (MIL-P-25082) (used on 159-48041 and 159-48041-10)	1	
	TF900-2				.	.	.			PUMP ASSY, 200 GPH power driven fuel type G6 (Thompson) (MIL-P-25032) (AN4100-1) (Pesco No. 2P-R400BRDC1 supersedes 2P-R400BRDC & R400BRDC) (2P-R400BRDC, type G6 may be substituted)	1	
-31	AN822-12				.	.	.			ELBOW	1	
-32	AN823-12				.	.	.			ELBOW	1	
-33	AN826-4				.	.	.			TEE	1	
-34	159-48085				.	.	.			FITTING ASSY, .070R restricted G6 fuel pump (used on 159-48041 only)	1	4-40
	159-48085-5				.	.	.			FITTING ASSY, .070R restricted G6 fuel pump	1	
-35	AN6264-12D20 1-2				.	.				HOSE ASSEMBLY	1	
-36	AN6264-4-11 3-4				.	.				HOSE ASSEMBLY	1	
-37	AN919-6				.	.				REDUCER	1	
-38	AN6264-4-47				.	.				HOSE ASSEMBLY (carb vapor return)	1	
-39	AN822-4				.	.				ELBOW	1	
-40	AN823-12				.	.				ELBOW	1	
-41	AN6264-12D26				.	.				HOSE ASSEMBLY (fuel pump to carburetor)	1	
	159-42031				.					ENG ACCESSORY EQUIP. INSTL, Fus (see fig. 51 for next assy)	NP	4-20
	159-42131				.					ENG ACCESSORY EQUIP. INSTL, Fus (see fig. 51 for next assy)	NP	21-
-42	AN833-6				.	.				ELBOW	1	
-43	AN924-6				.	.				NUT	1	
-44	AN931-6-10				.	.				GROMMET	1	
-45	159-942031-5				.	.				LINE ASSEMBLY, Supercharger drain	1	4-20
-46	159-42801-13				.	.				LINE ASSY, Supercharger drain (supersedes 159-42801-7)	1	21-
-47	066650				DRIVER (see figure 95)						Ref	
-48	For Continuation of these lines see 159--8010 (Figure 26)										Ref	

* Koehler Aircraft No. 83501-1 with 159-48027-7 and 934-6 as a set supersede Curtis Automotive No. CCA4850 with 159--8027-3 as a set, the latter or superseded parts may be used interchangeably as a set until stock is exhausted.

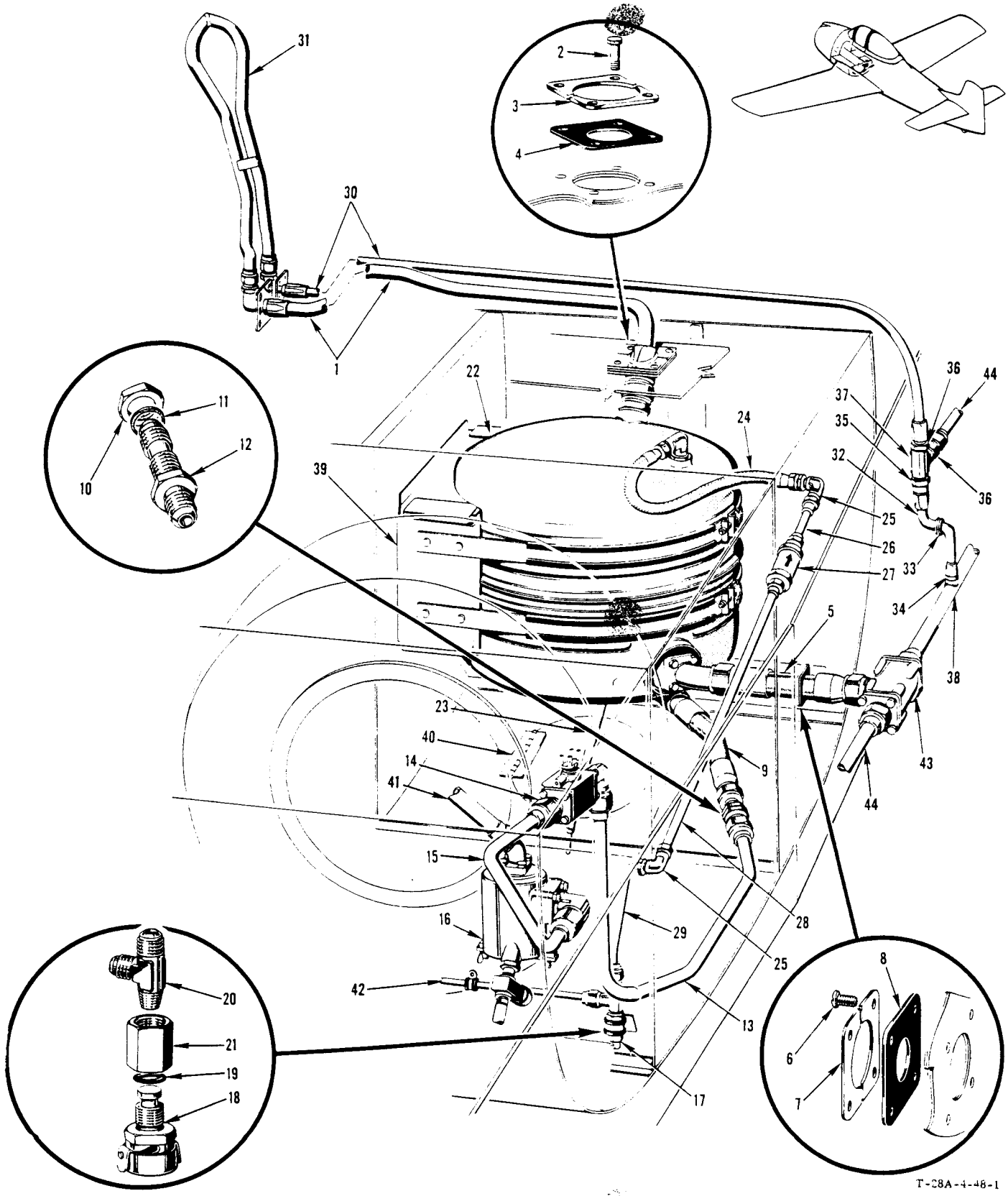


FIGURE 91 - FUSELAGE FUEL SUMP TANK EQUIPMENT

FUSELAGE FUEL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
91									FUSELAGE FUEL SUMP TANK EQUIPMENT		
	No Number			.					FUSELAGE FUEL SUMP TANK EQUIPMENT (see figure 90 for next assy and figure 92 for airplanes 694-)	NP	394-693
-1	950171-16-43 1-2	*2.		.	.				HOSE ASSEMBLY (Aeroquip)	1	394-693
-2	AN3-6			.	.				BOLT	4	394-693
	AN960D10L			.	.				WASHER	4	394-693
-3	174-48159			.	.				PLATE ASSY, Fuselage fuel sump tank vent seal	1	394-693
-4	174-48160			.	.				SEAL, Fuselage fuel sump tank vent inlet	1	394-693
-5	AN6264-16D6 3-4			.	.				HOSE ASSEMBLY	1	394-693
-6	AN520-8R14			.	.				SCREW	4	394-693
-7	174-48119			.	.				PLATE ASSY, Fuselage fuel tank inlet seal	1	394-693
-8	174-48118			.	.				SEAL, Fuselage fuel sump tank inlet	1	394-693
-9	AN6264-12D9			.	.				HOSE ASSEMBLY	1	394-693
-10	AN924-12D			.	.				NUT	1	394-693
-11	AN902-12			.	.				GASKET	1	394-693
-12	AN833-12D			.	.				UNION	1	394-693
-13	174-48801-24			.	.				LINE ASSY, Main fuel tank to fuel shut-off valve	1	394-693
-14	2864A			.	.				VALVE ASSY, Fuel shut-off (Hydro-Aire) (supersedes 2864 for future procurement)	1	394-693
-15	174-48801-23			.	.				LINE ASSY, Main fuel on and off valve to strainer	1	394-693
-16	No Number			.	.				FUSELAGE FUEL STRAINER ASSY AND ATTACHING PARTS (see figure 93 for detail breakdown)	NP	394-693
-17	159-48027-5			.	.				SUMP ASSY, Fuel fus carb vapor return line (superseded by 159-48027-9, 159-48027-5 may be used interchangeably with 159-48027-9 until stock is exhausted)	1	394-693
	159-48027-9			.	.				SUMP ASSY, Fuel fus carburetor vapor return line (supersedes 159-48027-5 for future procurement)	1	394-693
-18	83501-1	*1		.	.	.			VALVE ASSY, Drain (Koehler Aircraft) (Curtis Automotive No. CCA4800 may be used)	1	394-693
-19	934-6	*1		.	.	.			PACKING	1	394-693
-20	AN826-6			.	.	.			TEE	1	394-693
-21	159-48027-7	*1		.	.	.			BODY, Fuel fuselage carburetor vapor return line sump	1	394-693
-22	174-48105			.	.				TANK ASSY, Fuselage fuel sump complete (see figure 94 for detail breakdown)	1	394-693
-23	159-48065-10			.	.				FITTING ASSY, WCS fuel booster pump seal drain	1	394-693
-24	AN6264-6-11			.	.				HOSE ASSEMBLY	1	394-693
-25	AN833-6D			.	.				ELBOW	2	394-693
	AN924-6D			.	.				NUT	2	394-693
-26	174-48801-43			.	.				LINE ASSY, Carburetor vapor return line section 2	1	394-693
-27	10-1744-75			.	.				VALVE ASSY, On center swing type 527-6D No. 6 check (Parker Appliance)	1	394-693
-28	174-48801-44			.	.				LINE ASSY, Carburetor vapor return line section 1	1	394-693
-29	174-48801-45			.	.				LINE ASSY, Carburetor vapor return line section 3	1	394-693
-30	950172-16-8-54 1-4	*2		.	.				HOSE ASSEMBLY (Aeroquip)	1	394-693
-31	174-48151	*2		.	.				TUBE ASSY, Fuselage fuel sump tank vent standpipe	1	394-693
	No Number			.					FUSELAGE FUEL SUMP TANK LINES (see figure 27 for next assy and figure 92 for airplanes 694-)	NP	394-693
-32	AN6264-4-8			.	.				HOSE ASSEMBLY	1	394-693
-33	295202-16A			.	.				GROMMET (United-Carr)	1	394-693
-34	AN815-4D			.	.				UNION	1	394-693
	934-6			.	.				PACKING	1	394-693
-35	AN919-10D			.	.				REDUCER	1	394-693
	934-12			.	.				PACKING	3	394-693
-36	AN815-8D			.	.				UNION	2	394-693
-37	AN926-8D			.	.				TEE	1	394-693
-38	174-48156			.	.				LINE ASSY, Fuel wing center section section No. 2 RH side.	1	394-693
-39	174-48101								SUPPORT ASSY, Fuselage fuel sump tank (see figure 66)	Ref	
-40	174-31011								DOOR ASSY, Fus sta 86 1/2 fuel sump access (see figure 61)	Ref	
-41	159-48801-21								LINE ASSY, Main fuel strainer to union (see figure 90)	Ref	
-42	159-48801-22								LINE ASSY, Carb vapor return sump to fwd union (see figure 90)	Ref	
-43	174-48102								VALVE ASSY, Fuselage fuel sump tank inlet (see figure 27)	Ref	
-44	For continuation of these lines see 174-48013 (figure 27)									Ref	

*1 Koehler No. 83501-1 with 159-48027-7 and 934-6 as a set supersede Curtis Automotive No. CCA4850 with 159-48027-3 as a set, the latter or superseded parts may be used interchangeably as a set until stock is exhausted.

*2 Refer to T.O. 01-60FGA-59A.

FUSELAGE FUEL (Cont)

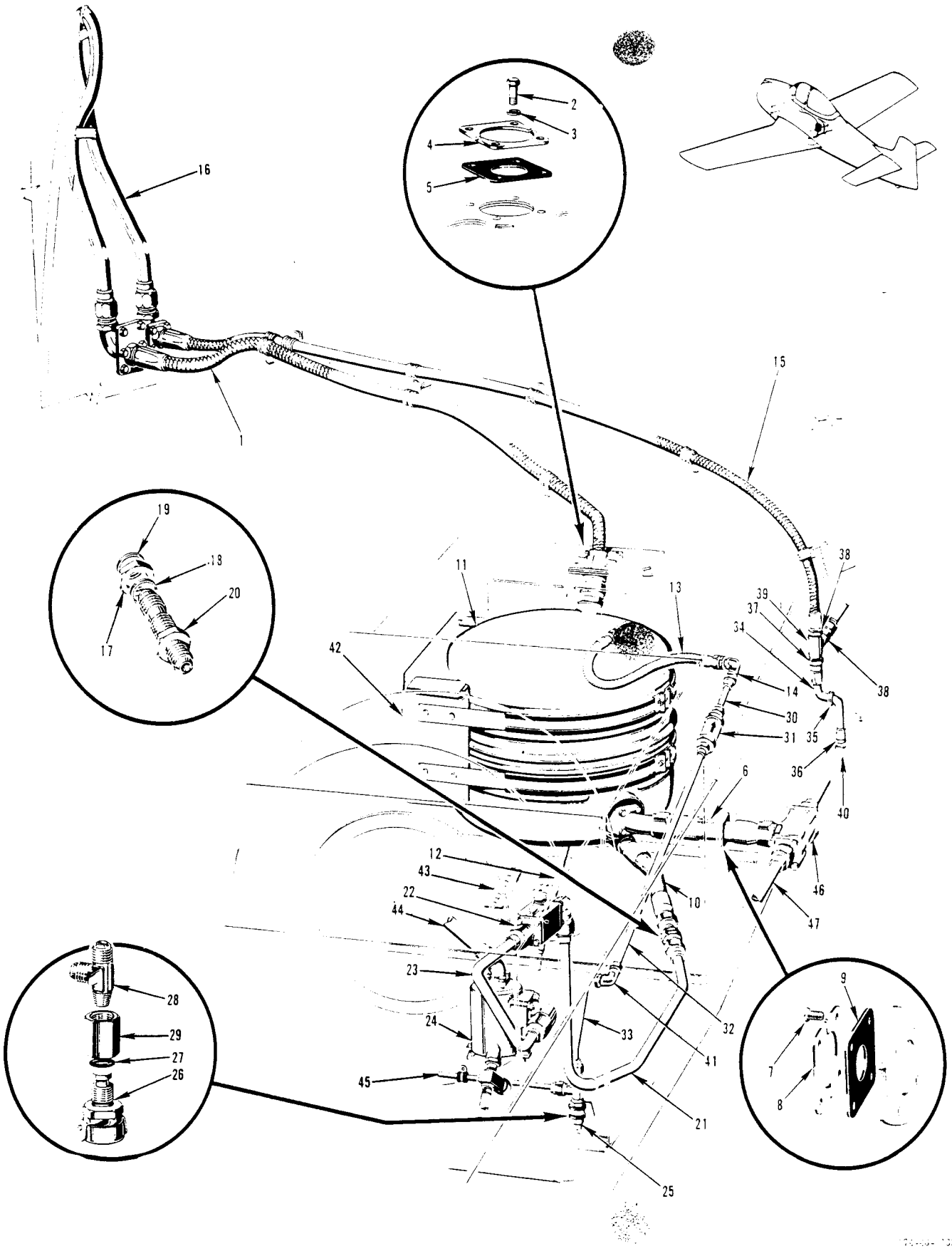


FIGURE 92 - FUSELAGE FUEL SUMP TANK EQUIPMENT

FUSELAGE FUEL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
92			FUSELAGE FUEL SUMP TANK EQUIPMENT		
	174-48032	.	FUEL SYSTEM EQUIP. INSTL, Fus RH side panel (see fig. 58 for next assy and fig. 91 for airplanes 394-693)	NP	694-
-1	350171-16-3 1-2	. .	HOSE ASSEMBLY (Aeroquip)	1	694-
-2	AN3-6	. .	BOLT	4	694-
-3	AN960D10L	. .	WASHER	4	694-
-4	174-48159	. .	PLATE ASSY, Fuselage fuel sump tank vent seal	1	694-
-5	174-48160	. .	SEAT, Fuselage fuel sump tank vent inlet	1	694-
-6	AN6264-16D6 3--	. .	HOSE ASSEMBLY	1	694-
-7	AN515-8R14	. .	SCREW	4	694-
-8	174-48113	. .	PLATE ASSY, Fuselage fuel sump tank inlet seal	1	694-
-9	174-48114	. .	SEAL, Fuselage fuel sump tank inlet	1	694-
-10	AN6264-12D9	. .	HOSE ASSEMBLY	1	694-
-11	174-48105	. .	TANK ASSEMBLY, Fuselage fuel sump complete (see figure 94 for detail breakdown)	1	694-
-12	159-48065-13	. .	FITTING ASSY, WCS fuel booster pump seal drain	1	694-
-13	AN6264-6-11	. .	HOSE ASSEMBLY	1	694-
-14	AN833-6D	. .	ELBOW	1	694-
	AN960D916	. .	WASHER	1	694-
	AN924-6D	. .	NUT	1	694-
-15	350178-16-3-5- 1--	. .	HOSE ASSEMBLY (Aeroquip)	1	694-
-16	174-48151	. .	TUBE ASSY, Fuselage fuel sump tank vent standpipe	1	694-
	No Number	.	FUSELAGE FUEL SUMP TANK EQUIPMENT (see fig. 92 for next assy and figure 91 for airplanes 394-693)	NP	694-
-17	AN924-12D	. .	NUT	1	694-
-18	AN912-12	. .	GASKET	1	694-
-19	AN960D1216	. .	WASHER	1	694-
-20	AN832-12D	. .	UNION	1	694-
-21	174-48801-2-	. .	LINE ASSY, Main fuel tank to fuel shut-off valve	1	694-
-22	2864A	. .	VALVE ASSY, Fuel shut-off (Hydro-Aire) (supersedes 2864 for future procurement)	1	694-
-23	174-48801-23	. .	LINE ASSY, Main fuel on and off valve to strainer	1	694-
-24	No Number	. .	FUSELAGE FUEL STRAINER ASSEMBLY AND ATTACHING PARTS (see figure 93 for detail breakdown)	NP	694-
-25	159-48027-5	. .	SUMP ASSY, Fuel fuselage carburetor vapor return line (superseded by 159-48027-9. 159-48027-5 may be used interchangeably with 159-48027-9 until stock is exhausted)	1	694-
	159-48027-9	. .	SUMP ASSY, Fuel fuselage carburetor vapor return line (supersedes 159-48027-5 for future procurement)	1	694-
-26	83501-1 *	. . .	VALVE ASSEMBLY, Drain (Koehler Aircraft	1	694-
-27	934-6 *	. . .	PACKING	1	694-
-28	AN826-6	. .	TEE	1	694-
-29	159-48027-7 *	. . .	BODY, Fuel fuselage carburetor vapor return line sump	1	694-
-30	174-48801-43	. .	LINE ASSY, Carburetor vapor return line section 2	1	694-
-31	10-1744-75	. .	VALVE ASSY, In center swing type 527-6D No. 6 check (Parker Appliance)	1	694-
-32	174-48801-44	. .	LINE ASSY, Carburetor vapor return line section 1	1	694-
-33	174-48801-45	. .	LINE ASSY, Carburetor vapor return line section No. 3	1	694-
	No Number	.	FUSELAGE FUEL SUMP TANK LINES (see fig. 27 for next assy and figure 91 for airplanes 394-693)	NP	694-
-34	AN6264-4-8	. .	HOSE ASSEMBLY	1	694-
-35	295202-16A	. .	GROMMET (United-Carr)	1	694-
-36	AN815-4D	. .	UNION	1	694-
	934-6	. .	PACKING	1	694-
-37	AN919-10D	. .	REDUCER	1	694-
	934-12	. .	PACKING	3	694-
-38	AN815-8D	. .	UNION	2	694-
-39	AN926-8D	. .	TEE	1	694-
-40	174-48156	. .	LINE ASSY, Fuel WCS section No. 2 RH side	1	694-
	174-48033	.	FUEL SYSTEM EQUIPMENT INSTALLATION, Fuselage LH side panel (see figure 62 for next assembly and figure 91 for airplanes 394-693)	NP	694-
-41	AN833-6D	. .	ELBOW	1	694-
	AN960D916	. .	WASHER	2	694-
	AN924-6D	. .	NUT	1	694-
-42	174-48101		SUPPORT ASSY, Fuselage fuel sump tank (see figure 66)	Ref	
-43	174-31011		DOOR ASSY, Fus sta 86 1/2 fuel sump access (see figure 61)	Ref	
-44	159-48801-21		LINE ASSY, Main fuel strainer to union (see figure 90)	Ref	
-45	159-48801-22		LINE ASSY, Carburetor vapor return sump to forward union (see figure 90)	Ref	
-46	174-48102		VALVE ASSY, Fuselage fuel sump tank inlet (see figure 27)	Ref	
-47	For continuation of these lines see 174-48013 figure 27)			Ref	

* Koehler No. 83501-1 with 159-48027-7 and 934-6 as a set supersede Curtis Automotive No. CCA4850 with 159-48027-3 as a set, the latter or superseded parts may be used interchangeably as a set until stock is exhausted.

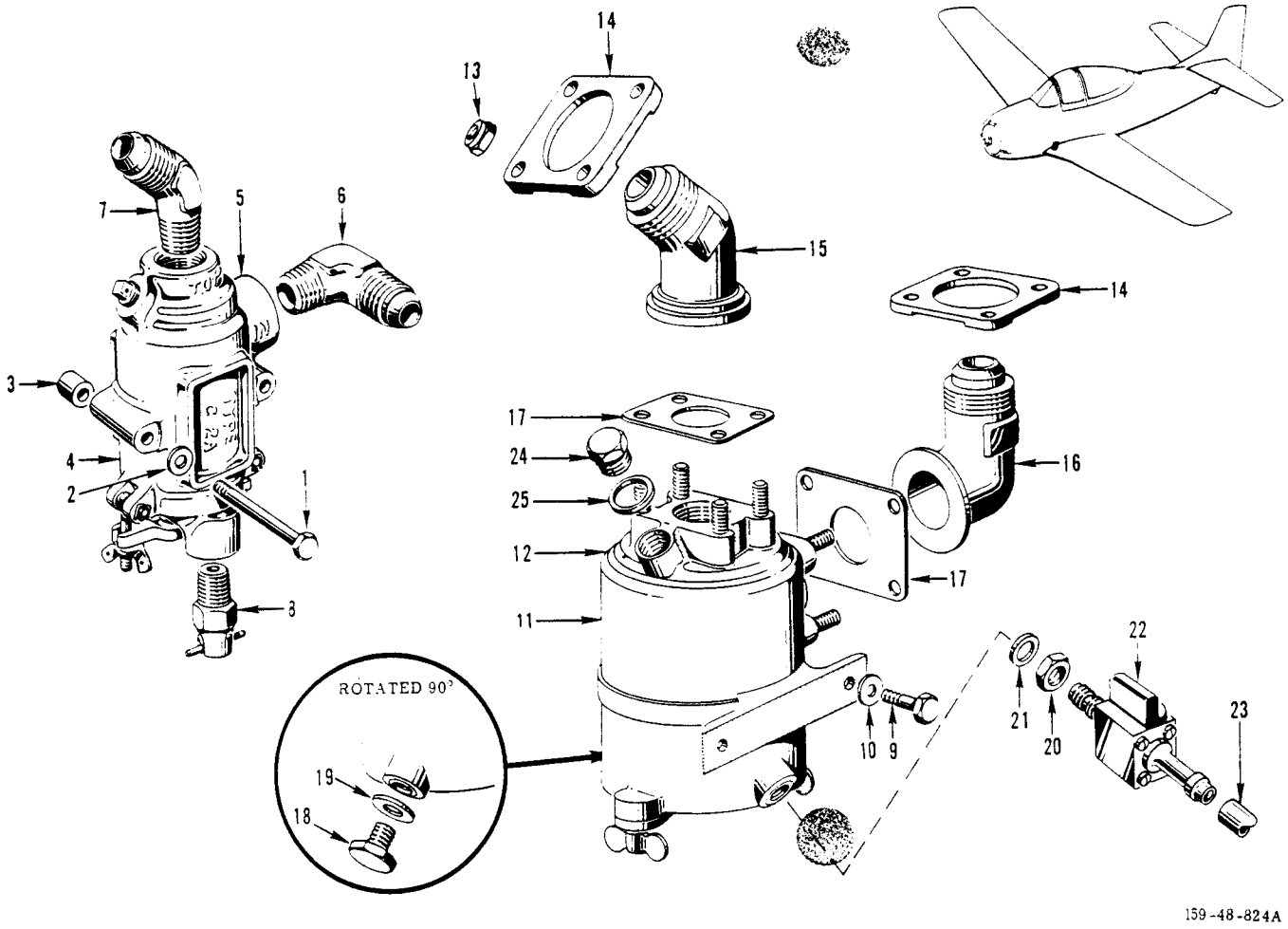


FIGURE 93 - FUSELAGE FUEL STRAINER ASSEMBLY AND ATTACHING PARTS

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
93	No Number	FUSELAGE FUEL STRAINER ASSY AND ATTACHING PARTS (see fig. 90 . . . 91, and 92 for next assembly)	NP	
-1	AN4-25A	. BOLT.	2	4-40
-2	AN960D10	. WASHER	2	4-40
-3	4S3D416-17	. SPACER, Bolt (North American)	2	4-40
-4	159-48032	. STRAINER ASSY, Fuselage fuel system	1	4-40
-5	FS200	. . STRAINER ASSY, Fuel (Type 33B) (Chas. E. Chapin) (United-Aircraft part No. 7635A may be substituted)	1	4-40
-6	AN822-12D	. . ELBOW	1	4-40
-7	AN823-12D	. . ELBOW	1	4-40
-8	CCA1500	. . VALVE ASSY, Fuel strainer drain (Curtis Automotive Devices) (Curtis Automotive Devices No. CCA4900 may be sub.)	1	4-40
-9	AN4-6A	. BOLT.	2	41-
-10	AN960D416	. WASHER	2	41-
-11	159-48095	. STRAINER ASSY, Fuselage fuel system	1	41-
-12	U945	. . STRAINER ASSY, 100 GPH Fuel (United Aircraft) (AF dwg S50C9124-2) (Aero Supply No. 104936 may be substituted) (U945 or 10-936 supersedes FS200)	1	41-
-13	AN365-1032	. . NUT.	8	41-
-14	AN756-D12	. . FLANGE	2	41-
-15	AN761D12	. . ELBOW	1	41-
-16	AN762D12	. . ELBOW	1	41-
-17	AN763-12	. . GASKET	2	41-
-18	AN814-4D	. . PLUG AND BLEEDER	1	41-
-19	AN902-4	. . GASKET	2	41-
-20	AN924-4D	. . NUT	1	41-
-21	AN902-4	. . GASKET	1	41-
-22	7901-1	. . VALVE (Koehler Aircraft)	1	41-
-23	159-48095-3	. . TUBE, Fuselage fuel strainer	1	41-
-24	AN814-3D	. . PLUG AND BLEEDER	1	41-
-25	AN902-3	. . GASKET	1	41-

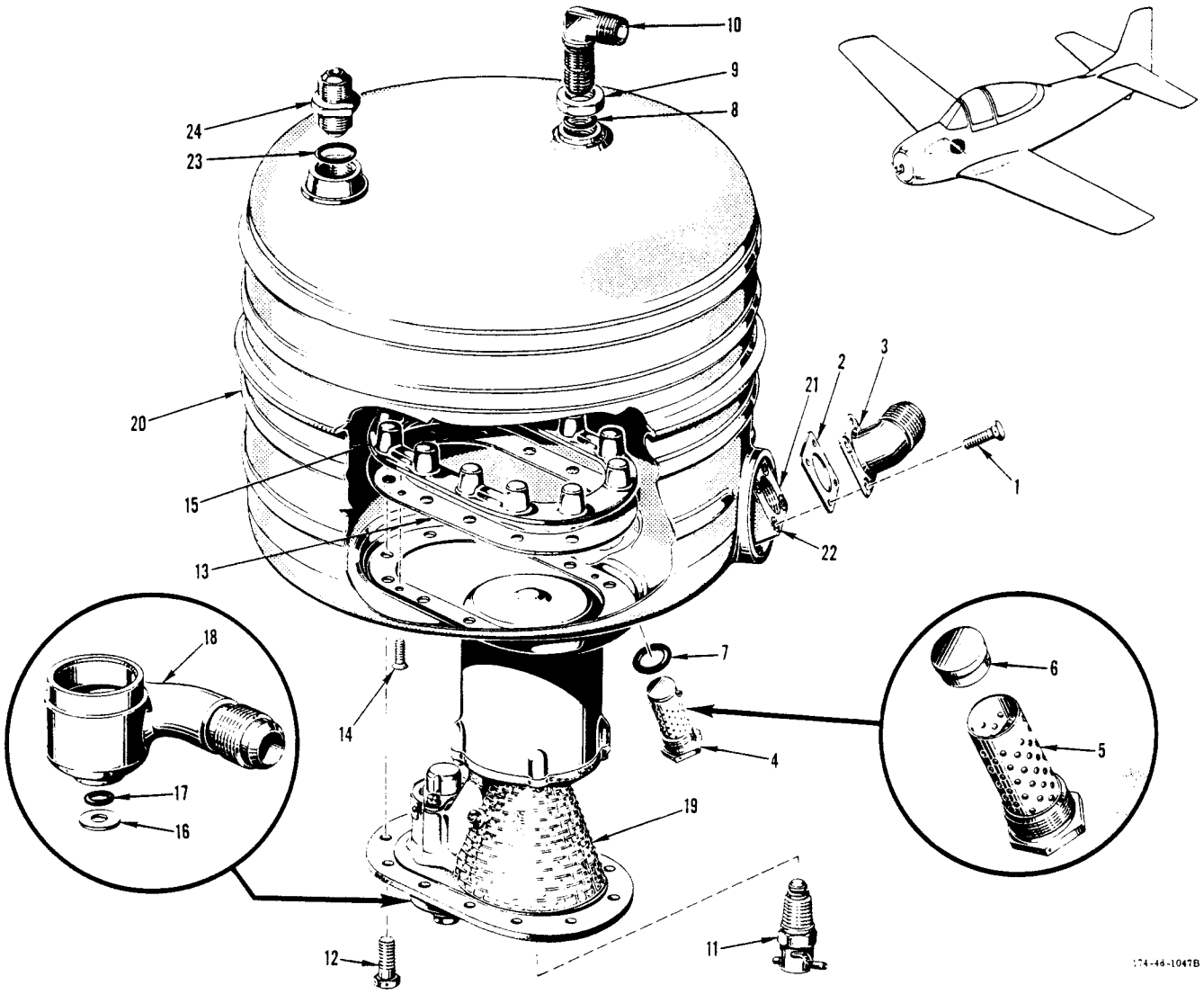
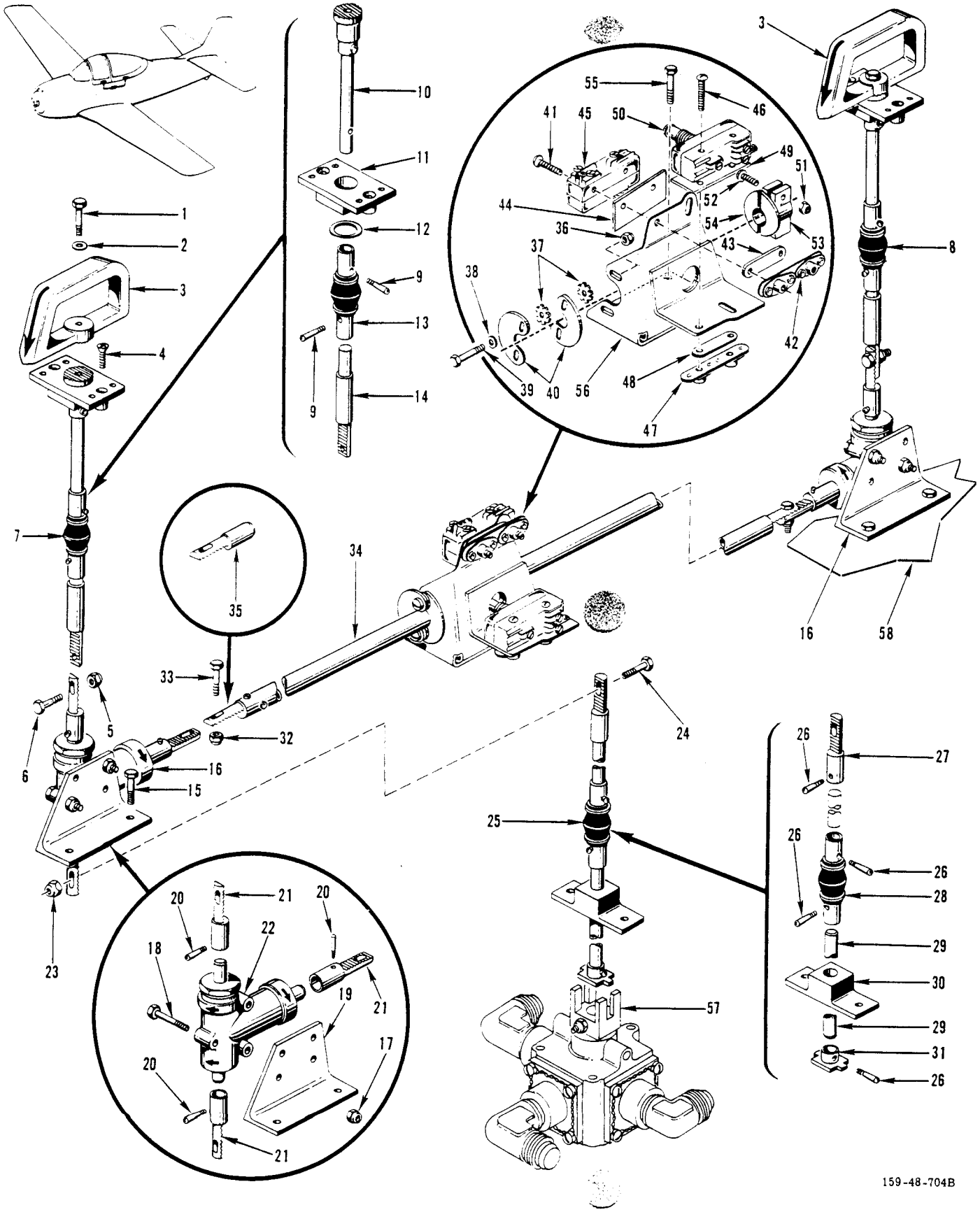


FIGURE 94 - FUSELAGE FUEL SUMP TANK ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
94	174-48105	TANK ASSY, Fuselage fuel sump complete (see fig. 91 & 92 for next assembly)	Ref	394-
-1	AN3H4A	. BOLT	4	394-
-2	174-48109	. GASKET, Fuselage fuel sump tank fuel inlet	1	394-
-3	174-48110	. ELBOW, Fuselage fuel sump tank fuel inlet	1	394-
-4	146-48700	. CARTRIDGE ASSY, Drop fuel tank corrosion inhibitor	1	394-
-5	146-48700-3	. . CYLINDER ASSY, Drop fuel tank corrosion inhibitor cartridge	1	394-
-6	146-48699	. . CAP, Drop fuel tank corrosion inhibitor	1	394-
-7	AN900-16	. GASKET	1	394-
-8	934-89	. PACKING	1	394-
-9	AN924-6D	. NUT	1	394-
-10	AN833-6D	. ELBOW	1	394-
-11	CCA1450	. VALVE ASSY, Drain (Curtis Automotive Devices) (CCA4850 may be used)	1	394-
-12	AN4H5A	. BOLT	12	394-
-13	174-48174	. GASKET, Fuselage fuel sump tank inner	1	394-
-14	AN509-10-4	. SCREW	4	394-
-15	MEC4x6-12T32	. FLANGE (Neuschotz Engineering Co.)	1	394-
-16	AN960D616	. WASHER	1	394-
-17	934-7	. PACKING	1	394-
-18	174-48116	. FITTING, Fuselage fuel sump tank booster pump outlet	1	394-
-19	TF31400-37	. PUMP ASSEMBLY, Fuel booster (Thompson Products)	1	394-
-20	174-48106	. TANK ASSEMBLY, Fuselage fuel sump	1	394-
-21	174-48108	. . BOSS ASSEMBLY, Fuselge fuel sump tank fuel inlet	1	394-
-22	RL24SB7	. . . RING (Rosan)	4	394-
	RD205SH5.5L	. . . INSERT (Rosan)	4	394-
-23	934-11	. PACKING	1	394-
-24	AN815-16D	. UNION	1	394-



159-48-704B

FIGURE 95 - SELECTOR VALVE CONTROL FUEL SYSTEM EQUIPMENT

FUSELAGE FUEL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
95	159-48169	FUEL SYSTEM EQUIPMENT INSTALLATION, Selector valve control . . . (see figure 62 for next assembly)	NP	
-1	AN3-6A	. BOLT	2	
-2	AN936A10	. WASHER	2	
-3	159-48143	. HANDLE, Fuel selector valve control	2	394-4-393
	52C1533	. HANDLE, Fuel selector valve control (Ref. T.O. 01-60FG-47)	2	
-4	AN515-8-10	. SCREW	4	
-5	AN365-1032	. NUT	4	
-6	AN3-6A	. BOLT	4	
-7	159-[illegible]	. ROD ASSY, Fuel selector valve control handle to floor fwd	1	
-8	159-[illegible]	. ROD ASSY, Fuel selector valve control handle to floor aft	1	
-9	AN385H20P6	. . PIN	4	
-10	159-[illegible]	. . ROD ASSY, Fuel selector valve control console	1	
	159-[illegible]	. . . FITTING ASSY, Fuel selector valve control console (supersedes 159-[illegible] for future procurement)	1	
	ASL305SB5.5LK	. . . INSERT (Rosan)	1	
-11	159-[illegible]	. . ADAPTER ASSY, Fuel selector control console	1	
-12	AN960-8-32-32	. . WASHER, Plain (North American)	1	
-13	AN27[illegible]	. . JOINT	1	
-14	159-[illegible]	. . ROD, Fuel selector valve control vertical (forward)	1	
-15	159-[illegible]	. . ROD, Fuel selector valve control vertical (aft)	1	
-16	AN3-6A	. BOLT	1	
-17	159-[illegible]	. BOX ASSY, Fuel selector valve control forward gear	1	
-18	159-[illegible]	. BOX ASSY, Fuel selector valve control aft gear	1	
-19	AN365-1032	. . NUT	6	
-20	AN3-[illegible]	. . BOLT	6	
-21	159-[illegible]	. . SUPPORT, Fuel selector control gear box	3	
-22	AN385H20P6	. . PIN, Tapered (used on 159-[illegible])	2	
	AN385H20P6	. . PIN (used on 159-[illegible])	2	
-23	159-[illegible]	. . FITTING, Fuel selector valve control vertical rod (2 used on 159-[illegible])	8	
-24	M-[illegible]	. . GEAR BOX ASSY, Model --M- (Air Associates) (used on 159-[illegible])	1	
	M-[illegible]	. . GEAR BOX ASSY, Model --M (Air Associates) (used on 159-[illegible])	1	
-25	AN365-1032	. NUT	1	
-26	AN3-6A	. BOLT	1	
-27	159-[illegible]	. ROD ASSY, Fuel selector valve control floor to valve	1	
-28	AN385H2[illegible]	. PIN	1	
-29	159-[illegible]	. FITTING, Fuel selector valve control vertical rod	1	
-30	[illegible]	. JOINT	1	
-31	159-[illegible]	. ADAPTER, Fuel selector valve control floor to valve rod	1	
-32	159-[illegible]	. FAIRLEAD, Fuel selector valve control floor to valve rod	1	
-33	[illegible]	. DEFLECTOR, Fuel shut control guide (Air Corps Drawing)	1	
-34	AN365-1032	. NUT	2	
-35	AN3-6A	. BOLT	2	
-36	159-[illegible]	. ROD ASSEMBLY, Fuel selector valve control intercockpit	1	
-37	159-[illegible]	. . FITTING, Fuel selector valve control intercockpit rod	2	
-38	AN365-1032	. NUT	2	
-39	AN938B-10	. WASHER	2	
-40	AN960D8	. WASHER	2	
-41	AN515-8-12	. SCREW	2	
-42	159-[illegible]	. FAIRLEAD, Fuel selector valve control intercockpit rod	2	
-43	AN515-8-20	. SCREW	2	--393
-44	159-[illegible]	. PLATE ASSY, Engine control microswitch hold-down	2	--393
-45	159-[illegible]	. PLATE, Engine control microswitch mounted	1	--393
-46	159-48167	. INSULATOR, Fuel selector valve control microswitch	2	--393
-47	BZ7R[illegible]	. SWITCH, Micro (Micro Switch)	2	
-48	AN515-8-20	. SCREW	2	
-49	159-[illegible]	. PLATE ASSY, Engine control microswitch hold-down	2	
-50	159-[illegible]	. PLATE, Engine control microswitch mounted	1	
-51	159-48167	. INSULATOR, Fuel selector valve control microswitch	2	
-52	BZ7R[illegible]	. SWITCH, Micro (Micro Switch)	2	
-53	AN365-1032	. NUT	2	
-54	AN515-8-12	. SCREW	2	
-55	159-48160-3	. DAM, Fuel selector valve control microswitch	1	
-56	159-48160-5	. DAM, Fuel selector valve control microswitch	1	
-57	AN3-4	. BOLT	3	
-58	159-[illegible]	. BRACKET ASSY, Fuel selector valve control microswitch	1	
-59	159-[illegible]	VALVE ASSY, WCS fuel system tank selector (see figure 90)	Ref	
-60	159-[illegible]	FLOOR ASSY, Fuselage cockpit left side (see figure 63)	Ref	

FUSELAGE INSTRUMENTS

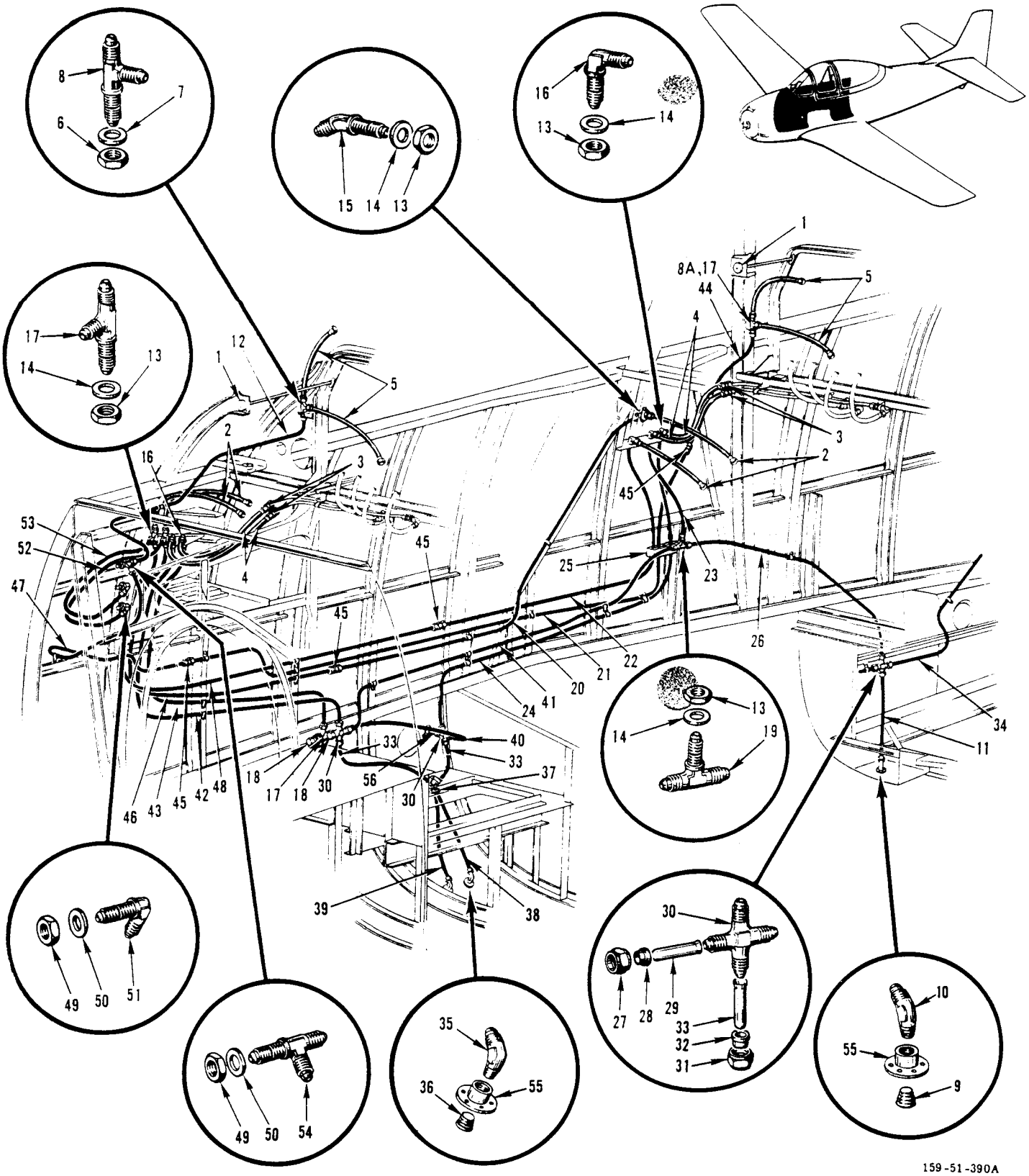


FIGURE 96 - FRONT AND INTERMEDIATE FUSELAGE INSTRUMENT LINES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
96		FRONT AND INTERMEDIATE FUSELAGE INSTRUMENT LINES		
	159-51033	. INSTRUMENT EQUIP. INSTL, Fus sta 49 1/2 to 168 (see fig. 51 for next assy and figure 98, 101, and 251 for additional breakdown) . . .	NP	
-1	No Number	. . PILOT'S INST PANEL SUPPORT EQUIPMENT (see figure 101 for breakdown) . . .	NP	

FUSELAGE INSTRUMENTS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
96-2	AN6270-4-26	. .	HOSE ASSEMBLY	4	
-3	AN815-4D	. .	UNION	4	
-4	AN6270-4-14	. .	HOSE ASSEMBLY	4	
-5	AN6270-4-20	. .	HOSE ASSEMBLY	4	
-6	AN924--D	. .	NUT	1	
-7	AN960D716	. .	WASHER	1	
-8	AN804D4	. .	TEE	1	
-8A	AN804D4	. .	TEE	1	694-
	AN960D716	. .	WASHER	1	694-
	AN924--D	. .	NUT	1	694-
-9	AN932C2	. .	PLUG	1	16-229
	AN932-2	. .	PLUG	2	230-
-10	AN823-4D	. .	ELBOW	1	16-
-11	159-51801-44	. .	LINE ASSY, Airspeed press. rear drain sump from static cross to elbow station 139 RH side	1	16-
-12	159-51801-66	. .	LINE ASSY, Manifold pressure firewall tee to front instrument panel tee	1	4-30
	159-51801-64	. .	LINE ASSY, Manifold pressure firewall tee to front instrument panel tee	1	31-393
	171-51801-70	. .	LINE ASSY, Manifold pressure firewall tee to front instrument panel tee	1	394-
	159-51036	.	INSTRUMENT EQUIP. INSTL, Right side panel (see fig. 56 for next assy & fig. 38 & 251 for additional breakdown)	NP	4-268
	NOTE:	For Airplanes 269- see figure 37			
-13	AN924-4D	. .	NUT	11	4-268
-14	AN960D716	. .	WASHER	11	4-268
-15	AN837-4D	. .	ELBOW	1	4-268
-16	AN833--D	. .	ELBOW	3	4-268
-17	AN804D4	. .	TEE	1	4-268
-18	AN929-4	. .	CAP	2	4-268
-19	AN834--D	. .	TEE	1	4-268
-20	159-51801-50	. .	LINE ASSY, Fuel pressure front instrument hose to rear instrument hose (section 2)	1	4-268
-21	159-51801-72	. .	LINE ASSY, Manifold pressure firewall tee to rear instrument hose disconnect (section 2)	1	4-268
-22	159-51801-60	. .	LINE ASSY, Oil pressure front instrument hose to rear instrument hose (section 2)	1	4-268
-23	159-51801-12	. .	LINE ASSY, Airspeed static rear instrument panel attaching tee to rear instrument panel hose	1	4-268
-24	159-51801-24	. .	LINE ASSY, Airspeed pressure drain sump to rear instrument hose disconnect	1	4-268
-25	171-51066	. .	SUPPORT ASSY, Instrument line (supersedes 159-51065)	2	
-26	159-51801-10	. .	LINE ASSY, Airspeed static rear drain sump to rear panel attaching tee	1	4-268
-27	AN818-4D	. .	NUT	1	4-268
-28	AN819-4Z	. .	SLEEVE	1	4-268
-29	9S1	. .	SUMP, Drain (North American) (used as support)	1	4-268
-30	AN827-4D	. .	CROSS	1	4-268
-31	AN818-4D	. .	NUT	3	4-15
-32	AN819-4Z	. .	SLEEVE	3	4-15
-33	9S1	. .	SUMP, Drain (North American)	3	4-15
-34	159-51801-22	. .	LINE ASSY, Airspeed static sta 168 elbow to rear drain sump (for continuation of line see 159-51131)	1	4-268
-35	AN823-4D	. .	ELBOW	2	16-
-36	AN932C2	. .	PLUG	2	16-229
	AN932-2	. .	PLUG	2	230-268
-37	AN931-14-20	. .	GROMMET	1	16-
-38	159-51801-26	. .	LINE ASSY, Airspeed pressure drain sump from cross to elbow station 81 1/2	1	16-
-39	159-51801-42	. .	LINE ASSY, Airspeed static drain sump from forward static cross to elbow station 59	1	16-
-40	159-51801-36	. .	LINE ASSY, Airspeed pressure drain sump to gunsight computer hose tee	1	4-268
-41	159-51801-16	. .	LINE ASSY, Airspeed static rear panel attaching tee to front drain sump	1	4-268
-42	159-51801-18	. .	LINE ASSY, Airspeed static front drain sump to front instrument panel hose	1	4-268
-43	159-51801-38	. .	LINE ASSY, Gunsight computer tee to front inst panel hose.	1	4-268
-44	159-51801-74	. .	LINE ASSY, Manifold pressure firewall tee to rear instrument hose disconnect (section 3)	1	4-268
-45	AN815-4D	. .	UNION	4	4-268
-46	159-51801-48	. .	LINE ASSY, Fuel pressure front instrument hose to rear instrument hose (section 1)	1	4-268
-47	159-51801-70	. .	LINE ASSY, Manifold pressure firewall tee to rear instrument hose disconnect (section 1)	1	4-268
-48	159-51801-58	. .	LINE ASSY, Oil pressure front instrument hose to rear instrument hose (section 1)	1	4-268
-49	AN924-4	. .	NUT	3	4-268
-50	AN960-716	. .	WASHER	3	4-268
-51	AN833-4	. .	ELBOW	2	4-268
-52	159-51801-46	. .	LINE ASSY, Fuel press. firewall to front inst hose	1	4-268
-53	159-51801-56	. .	LINE ASSY, Oil press. firewall to front oil inst hose	1	4-268
-54	AN804-4	. .	TEE	1	4-268
-55	3F2-4		FITTING, Bulkhead union (North American) (see figure 66)	Ref	
-56	159-51801-32		LINE ASSY (see figure 34)	Ref	

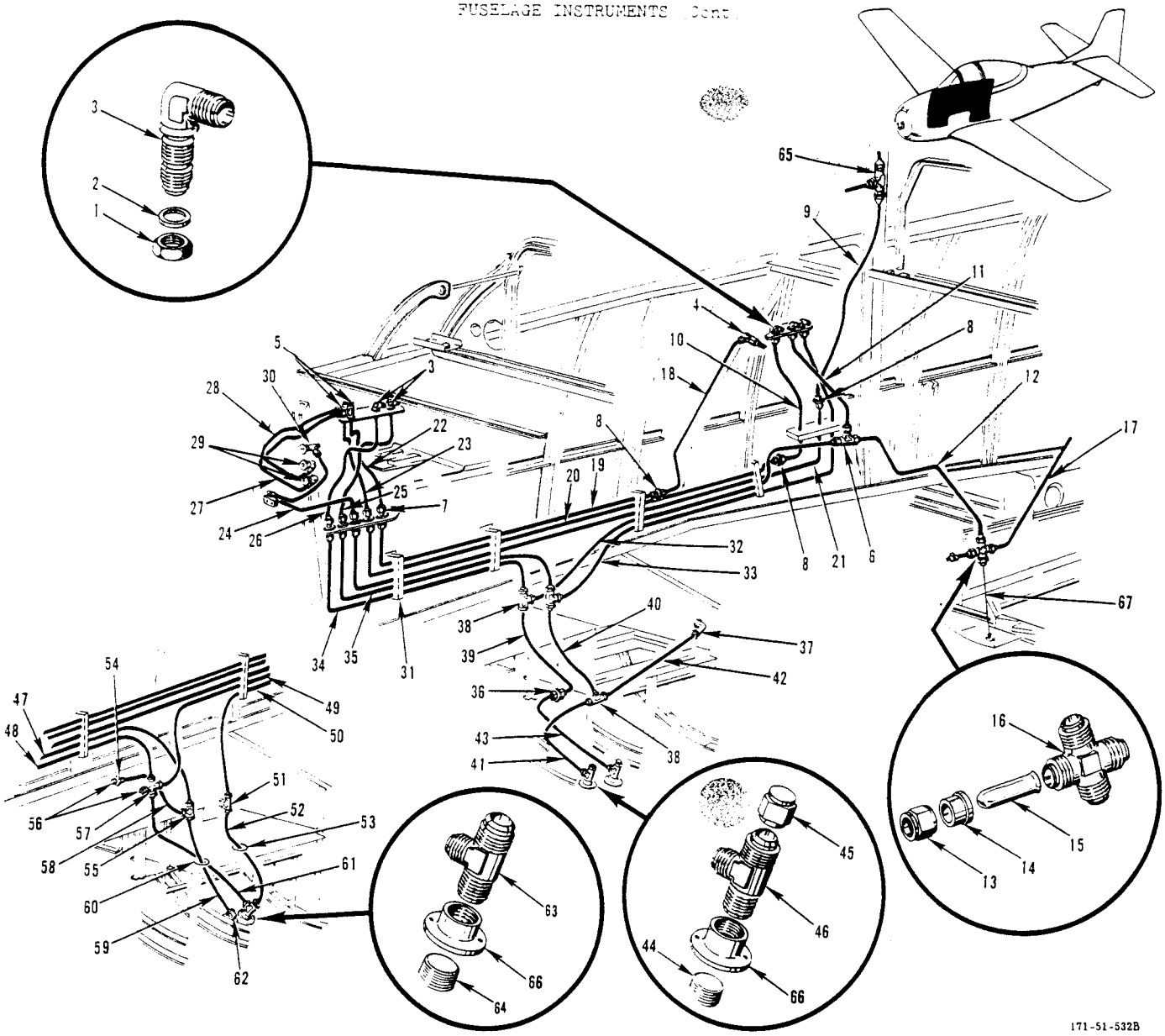


FIGURE 97 - RIGHT SIDE PANEL INSTRUMENT EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
97	171-51036	INSTRUMENT EQUIP. INSTL, Right side panel (see Fig. 58 for . . . next assy and Figure 98 and 99 for additional breakdown)	NP	269-
	NOTE:	For airplanes 4-266 see figure 96		
-1	AN924-4D	. NUT	14	269-
-2	AN960D716	. WASHER	14	269-
-3	AN833-4D	. ELBOW	5	269-
-4	AN833-4D	. ELBOW	1	269-455
	AN837-4D	. ELBOW	1	456-
-5	AN804D4	. TEE	2	269-
-6	AN834-4D	. TEE	1	269-
-7	AN832-4D	. UNION	5	269-
-8	AN815-4D	. UNION	3	269-
-9	171-51801-66	. LINE ASSEMBLY, Manifold pressure firewall tee to rear . . . instrument flexible disconnect (section 3)	1	269-693
	171-51801-68	. LINE ASSEMBLY, Manifold pressure firewall tee to rear . . . instrument flexible disconnect (section 3)	1	694-
-10	171-51801-56	. LINE ASSEMBLY, Oil pressure front instrument panel flexible . to rear instrument panel flexible (section 3)	1	269-
-11	159-51801-12	. LINE ASSY, Airspeed static rear inst panel attaching tee . . to rear instrument panel flexible	1	269-
-12	171-51801-34	. LINE ASSEMBLY, Airspeed static rear drain sump to rear . . . instrument panel attaching tee	1	269-
-13	AN818-4D	. NUT	1	269-
-14	AN819-4Z	. SLEEVE	1	269-
-15	9S1	. SUMP DRAIN (North American)	1	269-
-16	AN827-4D	. CROSS	1	269-
-17	159-51801-22	. LINE ASSY, Airspeed static sta 168 elbow to rear drain sump .	1	269-

FUSELAGE INSTRUMENTS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
97-18	171-51801-48	.	LINE ASSY, Fuel pressure front instrument panel flexible to rear instrument panel flexible (section 3)	1	269-693
	171-51801-74	.	LINE ASSY, Fuel pressure front instrument panel flexible to rear instrument panel flexible (section 3)	1	694-
-19	171-51801-46	.	LINE ASSY, Fuel pressure front instrument panel flexible to rear instrument panel flexible (section 2)	1	269-
-20	171-51801-54	.	LINE ASSY, Oil pressure front instrument panel flexible to rear instrument panel flexible (section 2)	1	269-
-21	171-51801-64	.	LINE ASSY, Manifold pressure firewall tee to rear instrument flexible disconnect (section 2)	1	269-
-22	171-51801-44	.	LINE ASSY, Fuel pressure front instrument panel flexible to rear instrument panel flexible (section 1)	1	269-
-23	171-51801-52	.	LINE ASSY, Oil pressure front instrument panel flexible to rear instrument panel flexible (section 1)	1	269-
-24	171-51801-62	.	LINE ASSY, Manifold pressure firewall tee to rear instrument. flexible disconnect section 1)	1	269-393, 456-
	174-51801-60	.	LINE ASSY, Manifold pressure firewall tee to rear instrument. flexible disconnect section 1)	1	394-455
-25	171-51801-12	.	LINE ASSY, Airspeed pressure gunsight computer flexible tee to front instrument panel flexible section 2)	1	269-
-26	171-51801-28	.	LINE ASSY, Airspeed static front drain sump to front instrument panel flexible (section 2)	1	269-
-27	159-51801-46	.	LINE ASSY, Fuel press. firewall to front inst flexible	1	269-
-28	159-51801-56	.	LINE ASSY, Oil pressure firewall to front inst flexible	1	269-
-29	AN833--	.	ELBOW	2	269-
-30	AN804--	.	TEE	1	269-
	AN960-716	.	WASHER	3	269-
	AN924-4	.	NUT	3	269-
-31	171-51066	.	SUPPORT ASSY, Instrument line supersedes 159-51066)	3	269-
-32	174-51801-2	.	LINE ASSY, Airspeed static rear instrument panel attaching tee to front drain sump (section 1)	1	394-
-33	174-51801-30	.	LINE ASSY, Airspeed pressure drain sump tee to rear instrument panel flexible	1	394-
-34	174-51801-6	.	LINE ASSY, Airspeed static front drain sump to front instrument panel flexible (section 1)	1	394-
-35	174-51801-28	.	LINE ASSY, Airspeed pressure drain sump tee to front instrument panel flexible (section 2)	1	394-
-36	AN832--D	.	UNION	1	394-
-37	AN833--D	.	ELBOW	1	394-
-38	AN804--	.	TEE	3	394-
	AN960D716	.	WASHER	3	394-
	AN924-4D	.	NUT	3	394-
-39	174-51801--	.	LINE ASSY, Airspeed static rear instrument panel attaching tee to front drain sump (section 2)	1	394-
-40	174-51801-26	.	LINE ASSY, Airspeed pressure drain sump tee to front instrument panel flexible (section 1)	1	394-
-41	174-51801-2-	.	LINE ASSY, Airspeed press. pitot tube to drain sump (sect. 6)	1	394-
-42	174-51801-22	.	LINE ASSY, Airspeed press. pitot tube to drain sump (sect. 5	1	394-
-43	174-51801-8	.	LINE ASSY, Airspeed static front drain sump to front inst panel section 3)	1	394-
-44	AN932-2	.	PLUG	2	394-
-45	AN929-4	.	CAP	2	394-693
-46	AN826-4D	.	TEE	2	394-693
	AN822-4D	.	ELBOW	2	694-
-47	171-51801-10	.	LINE ASSY, Airspeed pressure gunsight computer flexible tee to front instrument panel flexible (section 1)	1	269-393
-48	171-51801-26	.	LINE ASSY, Airspeed static front drain sump to front inst panel flexible section 1)	1	269-393
-49	171-51801-24	.	LINE ASSY, Airspeed static rear instrument panel attaching tee to front drain sump	1	269-393
-50	171-51801--	.	LINE ASSY, Airspeed pressure drain sump to rear instrument panel flexible disconnect	1	269-393
-51	AN824-4D	.	TEE	1	269-393
-52	171-51801-2	.	LINE ASSY, Airspeed press. pitot tube to drain sump (sect. 4)	1	269-393
-53	AN931-4-12	.	GROMMET	1	269-393
-54	AN832-4D	.	UNION	1	269-393
-55	AN834-4D	.	TEE	1	269-393
	AN960D716	.	WASHER	2	269-393
	AN924-4D	.	NUT	2	269-393
-56	AN929-4	.	CAP	2	269-393
-57	AN827-4D	.	CROSS	1	269-393
-58	171-51801-8	.	LINE ASSY, Airspeed pressure drain sump to gunsight computer flexible tee (section 2)	1	269-393
-59	159-51801-42	.	LINE ASSY, Airspeed static fwd cross to fwd drain sump	1	269-393
-60	AN931-14-20	.	GROMMET	1	269-393
-61	171-51801-6	.	LINE ASSY, Airspeed pressure drain sump to gunsight computer flexible tee (section 1)	1	269-393
-62	AN823-4D	.	ELBOW	1	269-393
-63	AN826-4D	.	TEE	1	269-393
-64	AN932-2	.	PLUG	2	269-393
-65	AN804D4	.	ELBOW	1	269-693
	AN960D716	.	WASHER	1	269-693
	AN924-4D	.	NUT	1	269-693
-66	3F2-4		FITTING, Bulkhead union (North American) (see figure 66)	Ref	
-67	159-51801-44		LINE ASSEMBLY (see figure 96)	Ref	

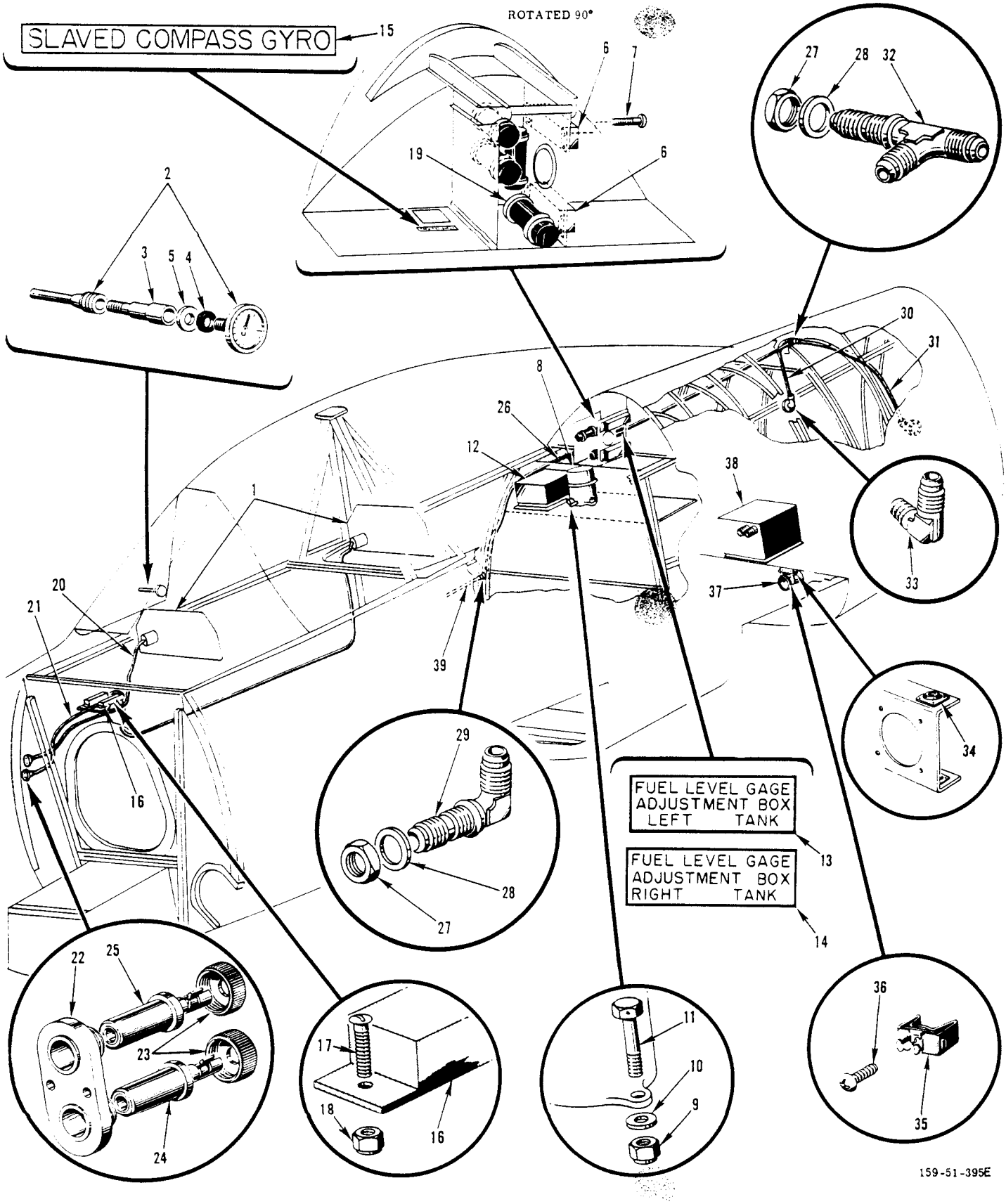


FIGURE 98 - FRONT AND INTERMEDIATE FUSELAGE MISCELLANEOUS INSTRUMENT EQUIPMENT

FUSELAGE INSTRUMENTS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
98		FRONT AND INTERMEDIATE FUSELAGE MISCELLANEOUS INSTRUMENT EQUIPMENT		
	159-51031	. INSTRUMENT EQUIPMENT INSTALLATION, Fuselage front (see figure 50 for next assembly)	NP	
-1	159-51005	. . PANEL ASSEMBLY, Pilot's instrument complete (see figure 99 for detail breakdown)	2	4-743
	171-51005	. . PANEL ASSEMBLY, Pilot's instrument complete (see figure 99 for detail breakdown)	2	744-
-2	No Number	. . THERMOMETER, Free air direct reading (type C13B) (Spec 94-27328B or C) (AERNO 61-9150) (GFAE)	1	
-3	159-51035	. . ADAPTER, Free air temperature indicator	1	
-4	2W1SR2C-2C-63	. . WASHER, Plain rubber (North American)	1	
-5	2W1B2C-32-31	. . WASHER, Plain brass (North American)	1	
-6	EA318-1	. . CONTROL BOX, Warning light (Liquidometer) (EA318-2 may be substituted)	2	4-393
	EA318-2	. . CONTROL BOX, Warning light (Liquidometer) (EA318-1 may be substituted)	1	394-
-7	AN52C-1CR13	. . SCREW	8	
-8	No Number	. . CONTROL GYRO, Slaved non-indicating (Sperry Gyroscope) (Spec 21198) (AERNO 60-1732) (type C1) (GFAE) (GFAE type C3A (Spec MIL-C-6231) (AERNO 60-1-80) or GFAE type C3A (Spec 21098B may be substituted)	1	
-9	AN365--28	. . NUT	2	
-10	AN960--16	. . WASHER	2	
-11	AN4-6A	. . BOLT	2	
-12	No Number	. . AMPLIFIER, Single channel integral slaved gyro magnetic compass (Sperry Gyroscope) (type A2) (AERNO 60-1702) (GFAE) (Spec 21125) (Furnished with mtg screws)	1	
-13	159-51039-3	. . DECAL, Fuel level gage adjustment box	1	4-393
	159-51039-7	. . DECAL, Fuel level gage adjustment box	1	394-
-14	159-51039-5	. . DECAL, Fuel level gage adjustment box	1	4-393
-15	159-51047	. . DECAL, Slaved compass gyro	1	
	159-51033	. INSTRUMENT EQUIPMENT INSTL, Fus sta 49 1/2 to 168 (see fig. 51 for next assy and fig. 96 and 251 for additional breakdown)	NP	
-16	AN5534-1	. . RESISTOR	2	
-17	AN515-8R10	. . SCREW	4	
-18	AN365-832	. . NUT	4	
-19	HC1560	. . CONDENSER, Dry electrolytic 6000 MFD at 15 volt DC (P. & R. Mallory)	4	4-393
	HC156C	. . CONDENSER, Dry electrolytic 6000 MFD at 15 volt DC (P. & R. Mallory)	2	394-
	159-51036	. INSTRUMENT EQUIP. INSTL, Right side panel (see figure 58 for next assy and figure 96 and 251 for additional breakdown)	NP	4-268
	171-51036	. INSTRUMENT EQUIP. INSTL, Right side panel (see figure 58 for next assy & fig. 97 & 251 for additional breakdown)	NP	269-
-20	159-51008	. . LEAD ASSY, Cylinder head temperature thermocouple firewall to instrument panel front	1	
-21	159-51008-10	. . LEAD ASSY, Cylinder head temperature thermocouple firewall to instrument panel rear	1	
-22	42A4298	. . . BODY ASSY, Thermocouple lead connector	1	
-23	AN3054-4	. . . NUT	2	
-24	43A19144	. . . RECEPTACLE ASSY, Thermocouple lead connector small	1	
-25	43A19148	. . . RECEPTACLE ASSY, Thermocouple lead connector large	1	
	159-51131	. INSTRUMENT EQUIPMENT INSTL, Fuselage station 168 to 238 7/8 (see figure 83 for next assembly)	NP	
-26	159-51801-6	. . LINE ASSEMBLY, Airspeed static port tee to station 168 elbow water line -7 1/4	1	4-268
	171-51801-36	. . LINE ASSEMBLY, Airspeed static port tee to station 168 elbow water line -7 1/4	1	269-
-27	AN924-4D	. . NUT	2	
-28	AN960D716	. . WASHER	2	
-29	AN833-4D	. . ELBOW	1	
-30	159-51801-2	. . LINE ASSEMBLY, Airspeed static right static port to static port tee	1	
-31	159-51801-4	. . LINE ASSEMBLY, Airspeed static left static port to static port tee	1	4-268
	171-51801-32	. . LINE ASSEMBLY, Airspeed static left static port to static port tee	1	269-
-32	AN804D4	. . TEE	1	
-33	AN822-4D	. . ELBOW	2	
	171-51012	*1 . . BRACKET ASSY, Fuselage sta 197 3/8 instrument complete	1	269-
	171-51011	*1 . . . BRACKET ASSY, Fuselage sta 197 3/8 instrument	1	269-
-34	AN8008D1	*1 . . . . INSULATOR	4	269-
-35	A6939-632-125	*1 . . NUT (Tinnerman)	4	
-36	SK179BP6-16	*1 . . SCREW, (American Screw Co)	4	
-37	No Number	*1 . . INDICATOR ASSY, Radio type ID251/ARN (GFAE)	1	
-38	No Number	*1 . . AMPLIFIER, Compass type C1 (GFAE) (AERNO 60-3850) (Eclipse-Pioneer Spec 3106)	1	
-39	159-51801-22	LINE ASSEMBLY, Airspeed static and station 168 elbow to rear drain dump (see figure 96)	Ref	

*1 Refer to T. O. 1T-28-50.

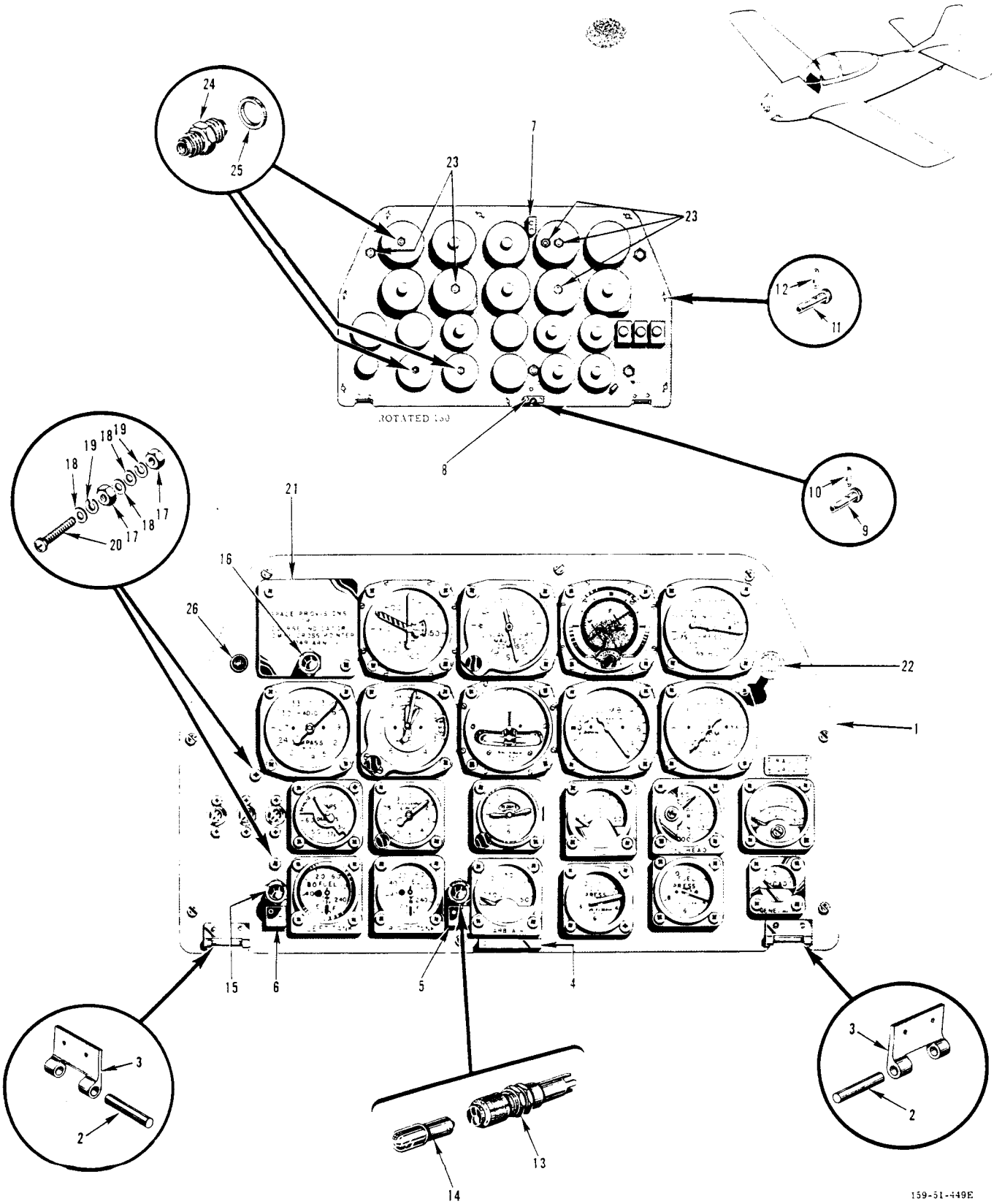
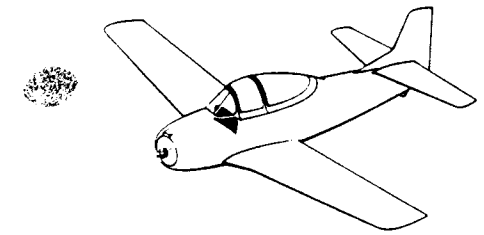


FIGURE 99 - PILOT'S INSTRUMENT PANEL ASSEMBLY COMPLETE

FUSELAGE INSTRUMENTS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
99	169-51005	PANEL ASSEMBLY, Pilot's instrument complete (see figure 98 for next assembly)	Ref	4-743
	174-51005	PANEL ASSEMBLY, Pilot's instrument complete (see figure 98 for next assembly)	Ref	744-
	No Number	. PILOT'S INSTRUMENT PANEL DECALS (see figure 102 for detail breakdown)	NP	
	No Number	. PILOT'S INSTRUMENTS (see figure 100 for detail breakdown)	NP	
-1	169-51003	. PANEL ASSEMBLY, Instrument (less equipment)	1	4-393
	169-51003-10	. PANEL ASSEMBLY, Instrument (less equipment)	1	394-743
	174-51003	. PANEL ASSEMBLY, Pilot's instrument	1	744-1137
	174-51003-10	. PANEL ASSEMBLY, Pilot's instrument	1	1138-
	169-51075	. . HINGE ASSEMBLY, Instrument panel supporting	2	
-2	169-51075-6	. . . PIN, Hinge	1	
-3	169-51075-3	. . . HINGE, Instrument panel	1	
-4	169-51003-7	. . BLOCK, Panel supporting	1	4-743
	174-51003-7	. . BLOCK, Panel supporting	1	744-
-5	169-51003-6	. . BLOCK, Panel supporting	1	4-743
	174-51003-6	. . BLOCK, Panel supporting	1	744-
-6	169-51003-5	. . BLOCK, Panel supporting	1	4-393
-7	167-51062	. . SUPPORT, Instrument panel support chord attaching	1	
-8	169-51003-9	. . SPACER, Block instrument panel	1	4-743
	174-51003-9	. . SPACER BLOCK, Instrument panel	1	744-
-9	99899-5-270	. . STUD, Airlock (United-Carr)	1	
-10	99786-2	. . CROSS PIN, Airlock (United-Carr)	1	
-11	99899-2-190	. . STUD, Airlock (United-Carr)	1	
-12	99786-2	. . CROSS PIN, Airlock (United-Carr)	1	
-13	AN3157-2	. LIGHT ASSEMBLY, Press. to test Indicator color red (Marco Industries Part No. VM400-2) (low level warn)	1	
-14	AN3121-313	. LAMP	1	
-15	AN3157-2	. LIGHT ASSEMBLY, Press to test Indicator color red (Marco Industries Part No. VM400-2) (low level warn)	1	4-393
	AN3121-313	. LAMP	1	4-393
-16	AN3157-4	. LIGHT ASSEMBLY, Press to test Indicator color red (Marco Industries Part No. VM400-4) (Marker beacon)	1	4-393
	AN3121-313	. LAMP	1	4-393
-17	AN3-1-6	. NUT (for electrical use)	4	
-18	AN960B6	. WASHER	6	
-19	AN935B6	. WASHER	4	
-20	SK179B6-16	. SCREW (American Screw Co) (electrical ground post)	2	
-21	169-51052	. PLATE, Cross pointer cover	1	4-393
-22	W1706-1-6D	. VALVE ASSEMBLY, Manifold pressure purge line (William R. Whittaker Spec. 40779)	1	
-23	AN816-4D	. NIPPLE	5	
-24	AN815-4D	. UNION	3	
-25	AN902-4	. GASKET	3	
-26	50635	. PLUG, Button (United-Carr)	1	269-393



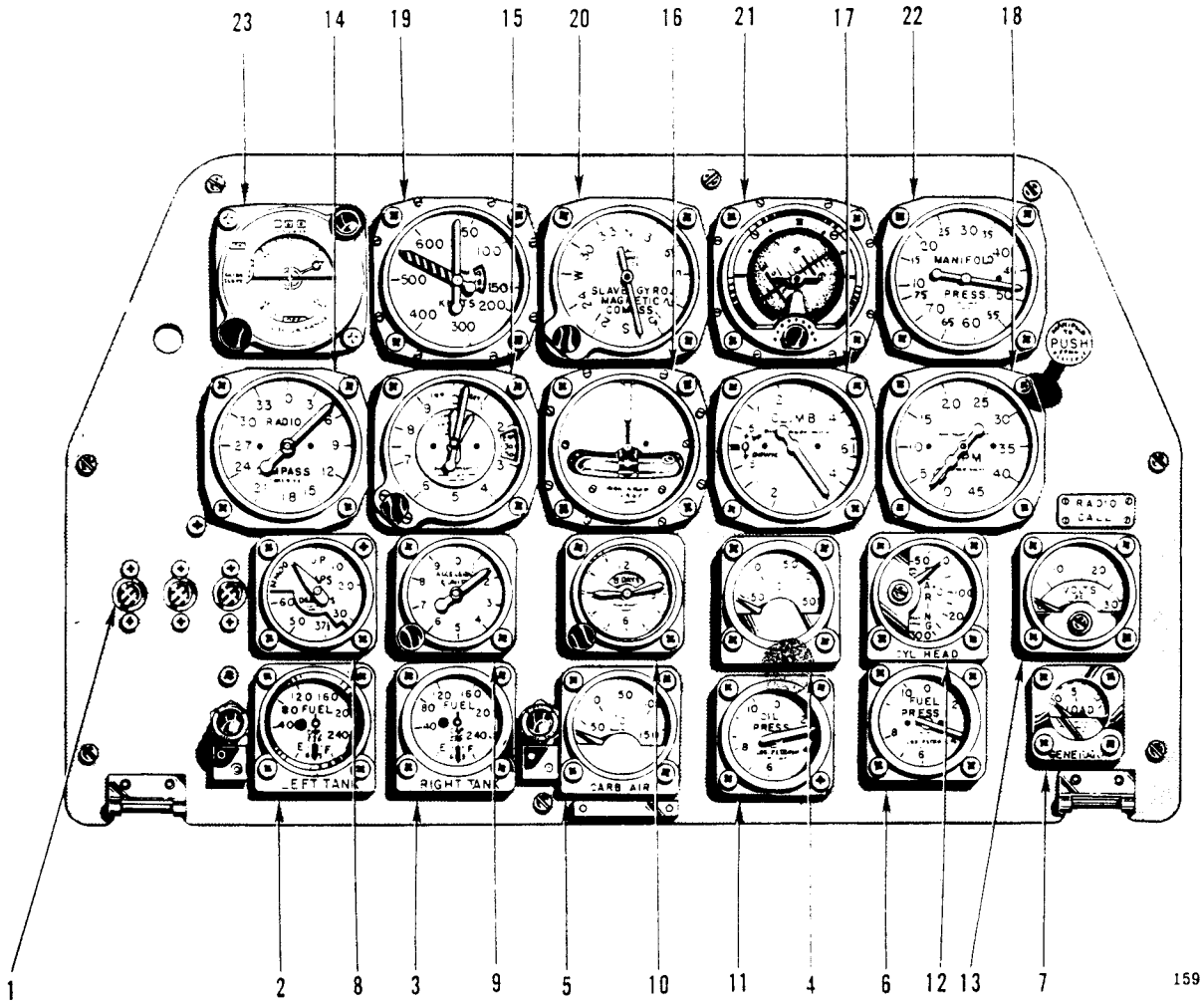


FIGURE 100 - PILOT'S INSTRUMENTS

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
100	No Number		PILOT'S INSTRUMENTS, (see figure 99 for next assembly	NP	
-1	AN5839-1		. INDICATOR ASSY, Position LG individual indicator 24 volts . . DC (type J1) (Spec MIL-I-6839A) (GFAE) (AERNO 60-3170)	3	4-743
	AN5839-1		. INDICATOR ASSY, Position LG individual indicating 28 volts . DC (GFAE) (Spec MIL-I-6839) (use AN5839-1 until exh)	3	744-
-2	EA711ANH1		. INDICATOR ASSY, Fuel level left tank (Liquidometer)	1	4-393
-3	EA711ANH1		. INDICATOR ASSY, Fuel level right tank (Liquidometer)	1	4-393
	EA711M1	*3	. INDICATOR ASSY, Fuel level (Liquidometer)	1	394-
-4	AN5790T6		. INDICATOR ASSY, Elec resistance type therm single (GFAE) . . (oil temp) (AN5790T6A may be substituted)	1	4-268
	MS28009-1	*1	. INDICATOR ASSY, Multi-function elec res single (oil temp) . . (type J5) (Spec MIL-I-7077) (GFAE) (AERNO 61-8833)	1	269-
-5	AN5790T6		. INDICATOR ASSY, Elec resistance type therm single (GFAE) . . (carburetor air temp) (AN5790T6A may be substituted)	1	4-268
	MS28009-1	*1	. INDICATOR ASSY, Multi-function elec res single (carb air temp) (type J5) (Spec MIL-I-7077) (GFAE) (AERNO 61-8833)	1	269-
-6	No Number		. GAGE ASSY, Fuel pressure direct indicating (type J32) . . . . (Spec 21225) (GFAE) (AERNO 61-2306)	1	4-268
	AW-2-15	*1	. GAGE ASSY, Fuel pressure direct indicating (U. S. Gage) . . . (type J33) (Spec MIL-I-3404A) (GFAE) (AERNO 61-2311)	1	269-
-7	Z22.76A		. AMMETER ASSY, (type J1) (Spec 32529) (GFAE) (AERNO 61-700) .	1	4-173
	Z22.76A		. AMMETER ASSY, (type J1) DeJur-Amsco (Spec MIL-A5125) . . . supersedes Spec 32529A for future procurement)	1	174-

FUSELAGE INSTRUMENTS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
100-8	No Number		INDICATOR ASSY, Wing flap position (type A4) (Spec 27433B) (GFAE) (AERNO 60-3165)	1	4-268
	MS28003-1	*1	INDICATOR ASSY, Wing flap position (type A7) (Spec MIL-I-7067) (GFAE) (AERNO 60-3172)	1	269-
-9	No Number		ACCELEROMETER ASSY, Aircraft single pointer pilot's warning (type B4) (Spec 27663A) (GFAE) (AERNO 60-205)	1	4-268
	3419-5A-A1		ACCELEROMETER ASSY, Aircraft three pointer (Eclipse-Pioneer) (type B6) (Spec MIL-A5885A) (GFAE) (AERNO 60-0206)	1	269-
-10	AN5743T1A		CLOCK ASSY, 1 7/8 Inch dial (AERNO 60-1200) (GFAE) (Spec 94-27970, type A11 or Spec 94-27970A may be sub)	1	
-11	No Number		GAGE ASSY, Oil pressure direct indicating (type B22) (Spec 27401) (GFAE) (AERNO 61-2308)	1	4-268
	AW2-14B	*1	GAGE ASSY, Oil pressure direct indicating (U. S. Gage) (type B23) (Spec MIL-G-8170) (GFAE) (AERNO 61-2313)	1	269-
-12	No Number		INDICATOR ASSY, cyl head temperature thermocouple multi purpose (type G4) (Spec 21235) (Spec 21235A may be used) (GFAE) (AERNO 61-2430)	1	4-268
	MS28007-1	*1	INDICATOR ASSY, Cyl head temp thermocouple multi-function (type G9) (Spec MIL-I-7074) (GFAE) (AERNO 61-8834)	1	269-
-13	AN3203V30		VOLTMETER ASSY, Direct current panel (GFAE)	1	4-268
	AN3203V30		VOLTMETER ASSY, Direct current panel (General Electric No. 8DW53VAB10 or Hickok Elec Inst Co. No. 3122-11 may be used)	1	269-
-14	ID250/ARN-14	*5	INDICATOR ASSY, Radio compass type I-81-L (type I-81N AD3581 may be sub) (Spec 271-1719) (GFAE)	1	4-180
	201565-91A	*5	INDICATOR ASSY, Radio compass (Bendix) (A)/ARN6 (GFAE) (GFAE indicator ID91A/ARN6 may be used)	1	181-593
	No Number	*4	INDICATOR ASSY, Radio compass type ID250/ARN (GFAE) (ID250A/ARN may be substituted)	1	
-15	AN5760T2A		ALTIMETER ASSY, Pressure (Spec 94-27957) (Type C12 may be substituted) (GFAE) (AERNO 60-700)	1	4-268
	AN5760-4B		ALTIMETER ASSY, Pressure (Spec 94-27386) (GFAE) (AERNO 60-1050) (type C16 may be substituted)	1	269-
-16	B4A		INDICATOR ASSY, Elec turn & bank (Schwein) (Spec 21106A or 21106 may be sub) (type C5) (GFAE) (AERNO 60-5700)	1	4-268
	MS28024-1		INDICATOR ASSY, Elec turn and bank (Spec MIL-I-7805) (GFAE) (AERNO 60-5701)	1	269-
-17	AN5825T3		INDICATOR ASSY, Rate of climb (GFAE)(Spec 94-27967B) (type C2) (AN5825-1 & -3, AN5825T1 or AN5825T6 (AERNO 60-6901) may be sub) (Spec 94-27408, type C3 may be sub)	1	
-18	8DJ13AKD33		INDICATOR ASSY, Tachometer (General Electric) (type E33) (Spec 21263) (GFAE) (AERNO 61-216)	1	4-743
	8DJ13AKD33		INDICATOR ASSY, Tachometer (General Electric) (type E33) (Spec MIL-I5264) (AERNO 61-216) (GFAE)	1	744-1137
	MS28029-1		INDICATOR ASSY, Tachometer (Type E35) (Spec MIL-I6329) (GFAE)	1	1138-
-19	MS28046-W1		INDICATOR ASSY, Airspeed pitot static radio active fluor marking (Spec MIL-I-5417A) (GFAE) (AERNO 60-4961)	1	4-743
	AN5861W2		INDICATOR ASSY, Airspeed pitot static 40-400 knots (GFAE)	1	744-
-20	No Number		INDICATOR ASSY, Setable dial gyro magnetic compass (type V2) (Spec 21123) (GFAE) (AERNO 60-1754)	1	4-268
	665263-21		INDICATOR ASSY, Setable dial gyro magnetic compass (Sperry) (type V3) (Spec 21174) (GFAE) (AERNO 60-1770) (type V8 may be sub)	1	269
-21	664911		INDICATOR ASSY, Attitude gyro (Sperry) (type J3) (Spec 27579) (GFAE) (AERNO 60-5930)	1	4-10
	654514-11		INDICATOR ASSY, Vertical gyro (Sperry) (Spec 21278) (type A1) (GFAE) (AERNO 60-5930-1)	1	11-175
	654514-11	*2	INDICATOR ASSY, Vertical gyro (Sperry) (Spec 21278) (type A1) (GFAE) (AERNO 60-5930-1)	1	176-268
	654514-21	*2	INDICATOR ASSY, Vertical gyro (type A2) (Spec 21327) (GFAE) (AERNO 60-5931-1	1	176-268
	14602-1J-A1	*2	INDICATOR ASSY, Attitude gyro (Eclipse-Pioneer) (Spec MIL-I5133) (type J8) (GFAE) (AERNO 60-59338)	1	176-
-22	AW2 3/4-25L		GAGE ASSY, Manifold press. direct indicating single (U. S. Gage) (type D18) (Spec 27760) (GFAE)	1	
-23	201565-249		INDICATOR ASSY, Course type ID249/ARN (Kearfott) (GFAE) ID249A or B/ARN or Weston Electric ID351/ARN or ID351A/ARN may be substituted)	1	

*1 Items marked thus, used with bezel mounting (GFAE) (Type A1) (Spec 21316 or MIL-B6836) on ships 4 thru 743. On ships 744 & sub. use AN5808-1 clamp.
*2 Items marked thus, used alternately in front and rear cockpit on ships 176 thru 236 and in front cockpit only on ships 237 thru 268.
*3 Item marked thus used with AN5808-1 clamp on ships 744 & subs.
*4 Also used on aircraft coded 4-593 which have been modified in accordance with T. O. 1T-28-50.
*5 Items marked thus not used on aircraft modified in accordance with T. O. 1T-28-50

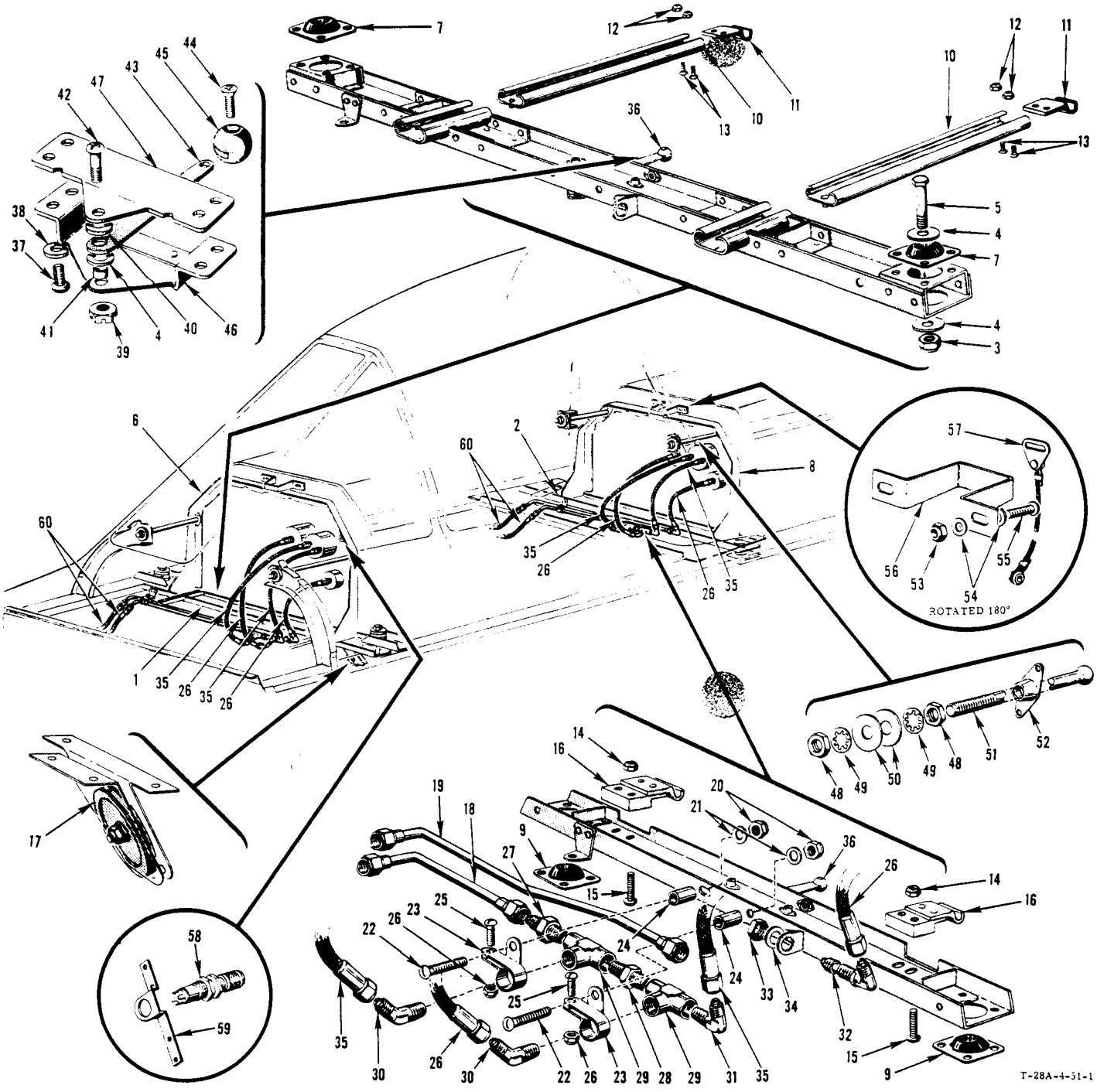


FIGURE 101 - PILOT'S INSTRUMENT PANEL SUPPORT EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
101	No Number	PILOT'S INST PANEL SUPPORT EQUIP., (see fig. 96 for next assy) .	NP	
-1	159-51004	. BEAM ASSY, Pilot's inst panel and equip. sup. complete front.	1	4-743
	159-51004-10	. BEAM ASSY, Pilot's inst panel and equip. sup. complete front.	1	744-
-2	159-51104	. BEAM ASSY, Pilot's inst panel and equip. sup. complete rear .	1	4-268
	159-51104-10	. BEAM ASSY, Pilot's inst panel and equip. sup. complete rear .	1	269-743
	159-51104-20	. BEAM ASSY, Pilot's inst panel and equip. sup. complete rear .	1	744-
	ATTACHING PARTS			
-3	AN365B428	. NUT	4	4-846
	AN363C428	. NUT	4	847-
-4	AN8013D2	. WASHER	8	4-743
	NAS43DD4-24	. SPACER, Screw and bolt	4	744-

FUSELAGE INSTRUMENTS (Cont)

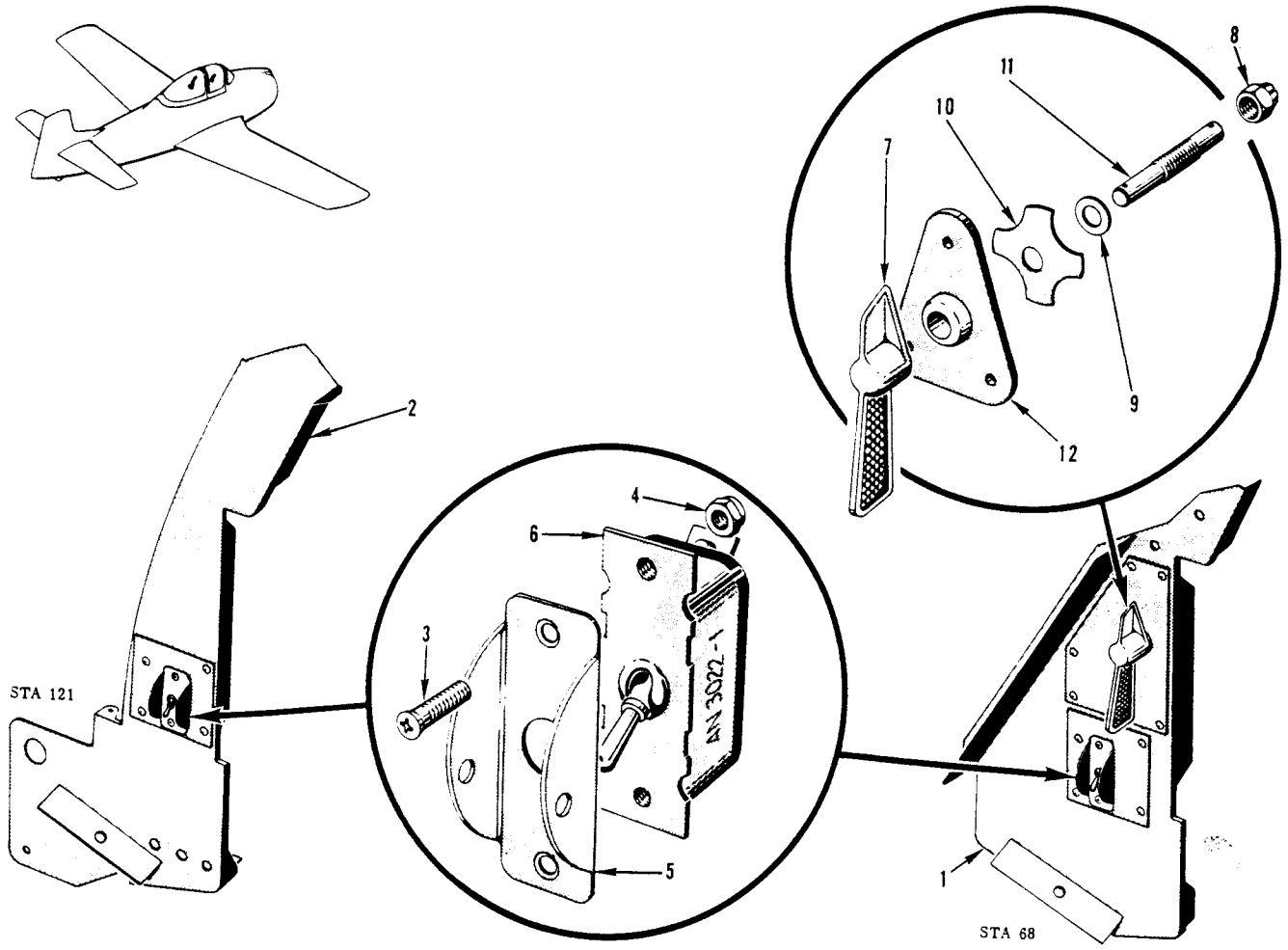
FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
101-5	AN4DD16A	. BOLT		4	4-743
	AN4DD24A	. BOLT		4	744-943
	5B18C25A	. BOLT, 1/4-28 corrosion resistant (North American)		4	944-
	---*---				
-6	159-51007	. . SUPPORT ASSY, Pilot's inst panel front (less equip.)		1	4-743
	159-51007-10	. . SUPPORT ASSY, Pilot's inst panel front (less equip.)		1	744-
	159-51010	. . . MOUNT ASSEMBLY, Instrument panel front		1	4-743
-7	AN8008D10	. . . . INSULATOR		2	4-743
-8	159-51107	. . SUPPORT ASSY, Pilot's inst panel rear (less equip.)		1	4-268
	159-51107-10	. . SUPPORT ASSY, Pilot's inst panel rear (less equip.)		1	269-743
	159-51107-20	. . SUPPORT ASSY, Pilot's inst panel rear (less equip.)		1	744-
-9	AN8008D10	. . . INSULATOR		2	4-743
-10	159-51061	. . TRACK ASSEMBLY, Instrument panel front)		2	
-11	159-51074	. . HINGE, Instrument panel supporting front		2	
-12	AN364B1032	. . NUT		4	
-13	AN509Z19R5	. . SCREW		4	
-14	AN365B832	. . NUT		2	
-15	AN515B8R12	. . SCREW		2	
-16	159-51062	. . HINGE ASSEMBLY, Instrument panel rear		2	
	159-52422	. . BRACKET ASSY, Rud pedal adjustment pulley WP12 fwd		1	
-17	AN210-1A	. . . PULLEY, Anti-friction bearing control		1	
-18	159-51801-14	. . LINE ASSY, Airspeed static rear instrument panel flexible to instrument flexible disconnect		1	4-268
	171-51801-30	. . LINE ASSY, Airspeed static rear instrument panel flexible to instrument flexible disconnect		1	269-
	159-51801-20	. . LINE ASSY, Airspeed static front instrument panel flexible to instrument flexible disconnect		1	
-19	159-51801-34	. . LINE ASSY, Airspeed pressure rear instrument panel flexible to instrument flexible disconnect		1	4-268
	171-51801-14	. . LINE ASSY, Airspeed pressure rear instrument panel flexible to instrument flexible disconnect		1	269-
	159-51801-40	. . LINE ASSY, Airspeed pressure front instrument panel flexible to instrument disconnect		1	
-20	AN365B832	. . NUT		4	
-21	AN960D8	. . WASHER		2	
-22	AN515B8R16	. . SCREW		2	
-23	735-9	. . CLAMP, (Adel Precision)		2	
-24	483D8-16	. . SPACER, Bolt North American)		2	
-25	AN515B8R7	. . SCREW		2	
-26	AN6270-4-22	. . HOSE ASSEMBLY		2	
-27	AN816-4D	. . NIPPLE		1	
-28	AN911-1D	. . NIPPLE		1	
-29	AN917-1D	. . TEE		2	
-30	AN823-4D	. . ELBOW		2	
-31	AN822-4D	. . ELBOW		1	
-32	AN833-4D	. . ELBOW		1	
-33	AN924-4D	. . NUT		1	
-34	AN960D716	. . WASHER		1	
-35	AN6270-4-20	. . HOSE ASSEMBLY		2	
-36	159-52421	. . BRACKET ASSY, Rudder pedal adjustment handle		1	
	ATTACHING PARTS				
-37	AN520B10R10	. . SCREW		2	
-38	AN960D10	. . WASHER		2	
	---*---				
-39	AN320-3	. . . NUT		1	
-40	2W1AL20-18-51	. . . WASHER, Plain (North American)		2	
-41	4B21B3-008	. . . BUSHING, Spacer (North American)		1	
-42	AN23-11	. . . BOLT		1	
-43	159-52420	. . . HANDLE ASSY, Rudder pedal adjustment		1	
-44	AN509-8-8	. . . . SCREW		1	
-45	NAS120B125	. . . . KNOB, Control 3/4 spherical		1	
-46	159-52421-3	. . . PLATE, Rudder pedal adjustment handle		1	
-47	159-52421-5	. . . PLATE, Rudder pedal adjustment handle		1	
-48	AN341-416	. NUT, (8 req on airplanes 4-846)		4	
-49	AN936A416	. WASHER, (8 req on airplanes 4-846)		4	
-50	AN8013D2	. WASHER		8	4-743
	NAS43DD4-24	. SPACER, Screw and bolt		4	744-
-51	5B15D7-3 *1	. BOLT, Panel (RH side rear panel) (North American)		1	4-268
	5B15D51-13 *1	. BOLT, Panel (LH side rear panel) (North American)		1	4-268)
	5B15D83-26	. BOLT, Panel (rear panel) (North American)		2	694-846
	5B15D61-9	. BOLT, Panel (rear panel) (North American)		2	847-
	5B15D6-3	. BOLT, Panel (LH side rear panel) (North American)		1	269-693
	5B15D7-3	. BOLT, Panel (RH side rear panel) (North American)		1	269-693
	5B15D10-5	. BOLT, Panel (front panel) (North American)		2	4-743
	5B15D91-26	. BOLT, Panel (front panel) (North American)		2	744-846
	5B15D70-9	. BOLT, Panel (front panel) (North American)		2	847-
-52	5B16	. RETAINER, Bolt (North American)		4	
-53	AN365B832	. NUT		4	4-743
-54	AN960D8	. WASHER		8	4-743
-55	AN515B8R8	. SCREW		4	4-743
-56	159-51048	. SNUBBER ASSY, Instrument panel top center		2	4-743
-57	159-51064	. CORD ASSEMBLY, Instrument panel supporting		2	
-58	AN3157-4 *1	. LIGHT ASSEMBLY, Press to test indicator		1	
	AN3121-313 *1	. LAMP		1	
-59	171-51009 *1	. LAMP SUPPORT, Instrument panel frame		1	
-60	AN6270-4-14	HOSE ASSY, (see 159-51033 for continuation of this line)		Ref	

*1 Refer to T. O. 1T-28-50.

FUSELAGE INSTRUMENTS (Cont)

FIGURE 102 DELETED

FUSELAGE INSTRUMENTS (Cont)



159-51-377D

FIGURE 103 - FUSELAGE STATION 68 1/4 AND 121.375 LEFT SUB-INSTRUMENT PANEL ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
103-1	159-31682	PANEL ASSEMBLY, Fuselage station 68 1/4 left sub-instrument . . (see figure 54 for next assembly)	Ref	4-393
	159-31682-51	PANEL ASSEMBLY, Fuselage station 68 1/4 left sub-instrument . . (see figure 54 for next assembly)	Ref	394-493
	159-31682-101	PANEL ASSEMBLY, Fuselage station 68 1/4 left sub-instrument . . (see figure 54 for next assembly)	Ref	494-
-2	159-31683	PANEL ASSEMBLY, Fuselage station 121.375 left sub-instrument . (see figure 52 for next assembly)	Ref	4-268
	159-31683-51	PANEL ASSEMBLY, Fuselage station 121.375 left sub-instrument . (see figure 52 for next assembly)	Ref	269-393
	159-31683-101	PANEL ASSEMBLY, Fuselage station 121.375 left sub-instrument . (see figure 52 for next assembly)	Ref	394-493
	159-31683-151	PANEL ASSEMBLY, Fuselage station 121.375 left sub-instrument . (see figure 52 for next assembly)	Ref	494-693
	159-31683-201	PANEL ASSEMBLY, Fuselage station 121.375 left sub-instrument . (see figure 53 for next assembly)	Ref	694-
-3	AN515-6R7	. SCREW	2	
-4	AN365-632	. NUT	1	4-393
-5	AN3225-1	. GUARD	1	
-6	AN3023-3	. SWITCH (landing light)	1	
-7	159-53577	. HANDLE, H & V sys cutoff control (used on 159-31682,-51,-101)	1	
-8	AN320-6	. NUT (Used on 159-31682, -51, and -101)	1	
-9	2W1AL25-40-64	. WASHER, Plain (North American)(used on 159-31682, -51, -101)	1	
-10	159-53432-10	. SPRING, Heat and vent system rear foot outlet handle . . . . positioning (used on 159-31682, -51, -101)	1	
-11	159-53579	. FITTING, Heat and vent sys emergency control handle (used . on 159-31682, -51, -101)	1	
-12	159-53544	. BEARING, Heat and vent sys defrost control handle (used . . on 159-31682, -51, -101)	1	

NOTE: Refer to T.O. 01-60FG-37

FUSELAGE INSTRUMENTS (Cont)

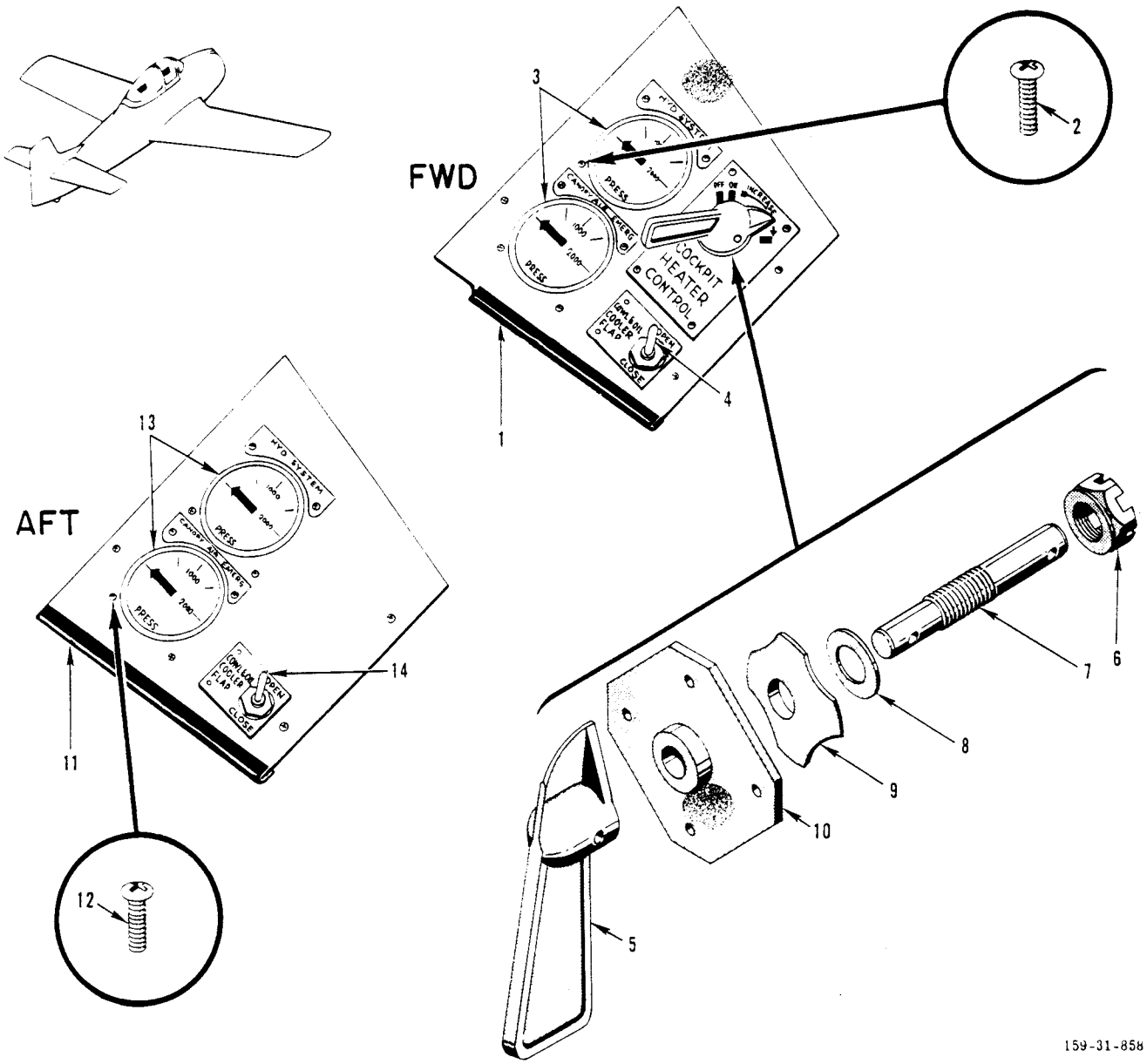
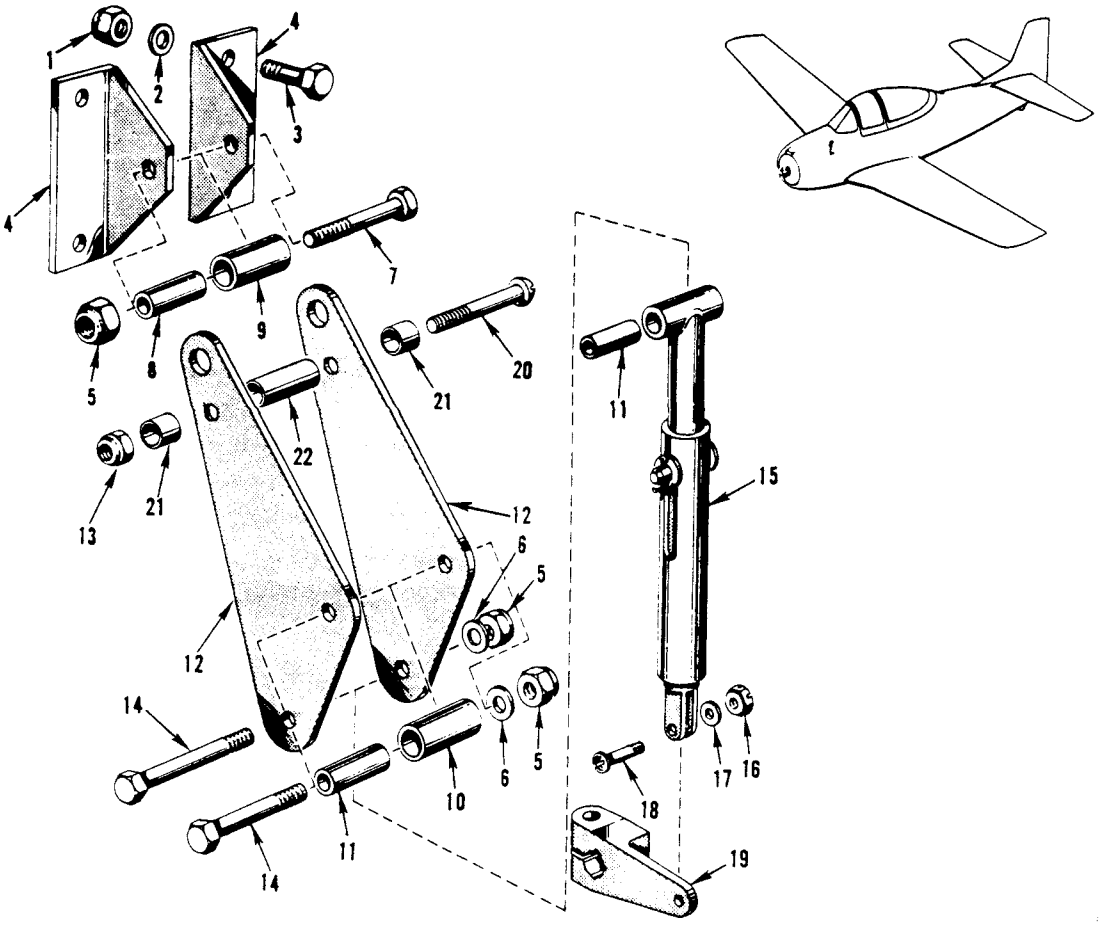


FIGURE 104 - LEFT SIDE CONSOLE CANTED INSTRUMENT PANEL ASSEMBLIES

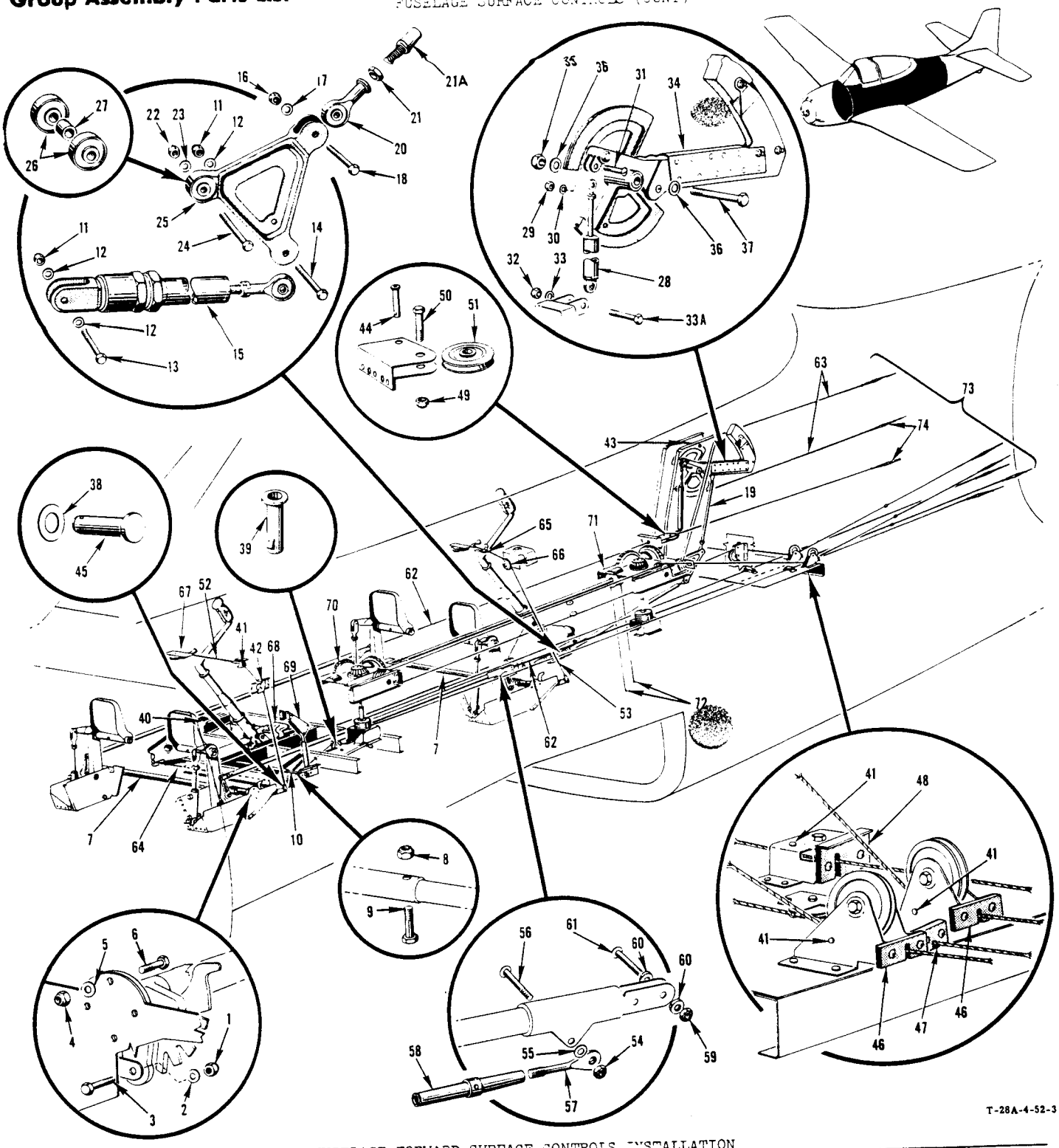
FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
104		LEFT SIDE CONSOLE CANTED INSTRUMENT PANEL ASSEMBLIES		
	159-31429	. PANEL ASSEMBLY, Console forward canted instrument support left (see figure 62 for next assembly)	Ref	
-1	159-31429-3	. . STRIP, Rubbing	1	
-2	SK179BP6-14	. . SCREW, Phillips truss head (American Screw Company)	8	
-3	AN5771T4B	. . GAUGE, Single 1 7/8 dial pressure (GFAE) (AERNO 61-2350)	2	269-4-268
	AN5771T4B	. . GAUGE, Single 1 7/8 dial pressure (U. S. Gauge No. AW1-7/8-17CN13)(AN5771-- or AN5771-4B may be sub)	2	
-4	AN3021-6	. . SWITCH, (with jumper removed)	1	
-5	171-53577	. . HANDLE, Heat & Vent sys heater control (supersedes 159-53580 & 159-53577 for future procurement)	1	
-6	AN320-6	. . NUT	1	
-7	159-53579	. . FITTING, Heat and vent system emergency control handle	1	
-8	2W1AL25-40-64	. . WASHER, Plain (North American)	1	
-9	159-53432-10	. . SPRING, Heat and vent system rear foot outlet handle positioning	1	
-10	159-53582	. . BEARING, Heat and vent system shut-off control rod	1	
	159-31431	. PANEL ASSEMBLY, Console aft canted instrument support left (see figure 62 for next assembly)	Ref	
-11	159-31431-3	. . STRIP, Rubbing	1	
-12	SK179BP6-14	. . SCREW, Phillips truss head (American Screw Company)	8	
-13	AN5771T4B	. . GAUGE, Single 1 7/8 dial pressure (GFAE) (AERNO 61-2350)	2	269-4-268
	AN5771T4B	. . GAUGE, Single 1 7/8 dial pressure (U. S. Gauge No. AW1-7/8 17CN13 (AN5771-4 or AN5771-4B may be sub)	2	
-14	AN3021-6	. . SWITCH, (with jumper removed)	1	



1-20A-4-43-3

FIGURE 105 - ENGINE CONTROL THROTTLE LOCK

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
105	159-43130	LOCK INSTL, Engine control throttle (see fig. 62 for next assy).	NP	
-1	AN365-1032	. NUT	4	
-2	2W1AL14-24-51	. WASHER, Plain (North American)	4	
-3	AN3-4A	. BOLT	4	
-4	159-43131	. SUPPORT, Throttle lock latch.	2	
-5	AN365-1032	. NUT	3	
-6	AN960-10	. WASHER.	2	
-7	AN3-12A	. BOLT.	1	
-8	4B21S3-025	. BUSHING, Spacer (North American)	1	
-9	4B19S5-019	. BUSHING, Press fit plain (North American)	1	
-10	4B19S5-018	. BUSHING, Press fit plain (North American)	1	
-11	4B21S3-019	. BUSHING, Spacer (North American)	2	
-12	159-43132	. PLATE, Throttle lock latch.	2	
-13	AN365-632	. NUT	1	
-14	AN3-10A	. BOLT.	2	
-15	159-43133	. BUNGEE ASSY, Throttle lock (refer to T. O. 16C1-1-114 for list of detail parts)	1	
-16	AN320-3	. NUT	1	
-17	AN960-10	. WASHER.	1	
-18	AN23-9	. BOLT.	1	
-19	159-43139	. ARM, Throttle lock actuating.	1	
-20	AN515-6-24	. SCREW	1	
-21	NAS42DD5-16	. SPACER, Rivet	2	
-22	NAS42DD5-38	. SPACER, Rivet	1	



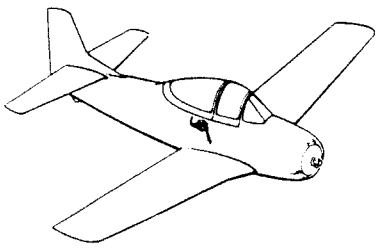
FUSELAGE FORWARD SURFACE CONTROLS INSTALLATION

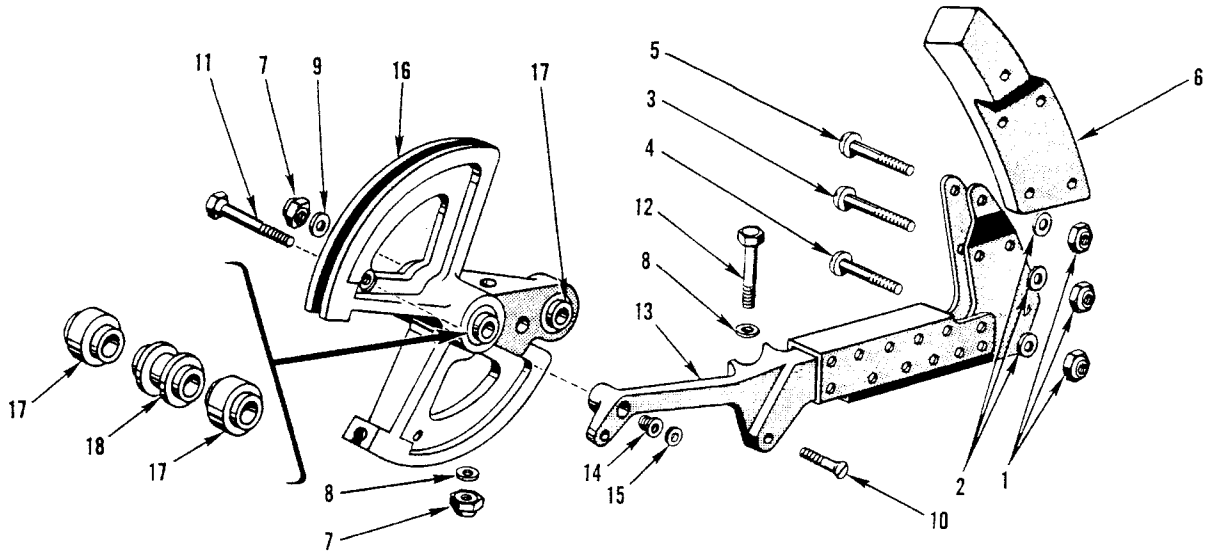
FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
106	159-52031	SURFACE CONTROLS INSTL, Fus fwd (see fig. 51 for next assy)	NP	
-1	AN365-428	. NUT	4	
-2	AN960D416	. WASHER	4	
-3	AN4-7A	. BOLT	16	
-4	AN365-1032	. NUT	16	
-5	AN960D10	. WASHER	16	
-6	AN3-5A	. BOLT (Magnetic inspected)	2	
-7	159-52415	. TUBE ASSY, Rudder pedal adjustment (see fig. 109 for detail breakdown)	1	
-8	AN365-1032	. NUT	1	
-9	AN3-7A	. BOLT		

FUSELAGE SURFACE CONTROLS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
106-10	159-43138	SHAFT, Throttle lock arm	1	
-11	AN310-4	NUT	2	
-12	AN960D416	WASHER	3	
-13	AN4-12	BOLT (Magnetic inspected)	1	
-14	AN4-13	BOLT (Magnetic inspected)	1	
-15	159-52204	TUBE ASSY, Elev control (see fig. 109 for detail breakdown	1	
-16	AN310-4	NUT	2	
-17	AN960D416	WASHER	2	
-18	AN4-13	BOLT (Magnetic inspected)	1	
-19	159-52213	TUBE ASSY, Elev control bellcrank to sector	1	
-20	RE4F5	. BEARING (Fafnir Bearing)	1	
-21	AN316-5R	. NUT	1	
-21A	159-52220-5	. TUBE END, Elev control threaded	1	
-22	AN365-428	NUT	1	
-23	AN960D416	WASHER	1	
-24	AN4-20A	BOLT (magnetic inspected)	1	
-25	159-52203-5	BELLCRANK ASSY, Elevator control fuselage station 159	2	
-26	AN200K4	. BEARING	1	
-27	4S6-4.469	. SPACER, Plain dual bearing (North American)	1	
	159-52221-10	BUNGEE ASSY, Elevator control (superseded by 159-52248 for future procurement only) (refer to T. O. 16C1-1-114 for list of detail parts)	1	161-
-28	159-52248	BUNGEE ASSY, Elevator control (superseded by 159-52221-10 for future procurement only) (refer to T. O. 16C1-1-114 for list of detail parts)		
		ATTACHING PARTS	1	
-29	AN320-3	NUT	1	
-30	AN960-10L	WASHER	1	
-31	AN23-15	BOLT	2	
-32	AN365-428	NUT	1	
-33	AN960D416	WASHER	1	
-33A	AN4-10A	BOLT		
		---*---		
-34	159-52229	BOBWEIGHT ASSY, Elevator control (superseded by 171-52229.. 159-52229 may be used interchangeably with 171-52229 until stock is exhausted) (see fig. 107 for breakdown)	1	
	171-52229	BOBWEIGHT ASSY, Elevator control (supersedes 159-52229 for future procurement) (see fig. 107 for breakdown)	1	
		ATTACHING PARTS	1	
-35	AN365428	NUT	2	
-36	AN960D416	WASHER	1	
-37	AN4-27A	BOLT	1	
		---*---		
-38	AN960-10L	WASHER	2	
-39	NAS427K10	PIN, Pulley guard	2	
-40	NAS427K12	PIN, Pulley guard	2	
-41	NAS427K8	PIN, Pulley guard	2	
-42	NAS427K7	PIN, Pulley guard	2	
-43	NAS427K38	PIN, Pulley guard (upper)	1	
	NAS427K44	PIN, Pulley guard (lower)	1	
-44	NAS427K11	PIN, Pulley guard	4	
-45	AN393-9	PIN	4	
-46	159-52559	STOP, Elevator trim tab cable fuselage station 168.	1	
-47	159-52556	BLOCK, Rudder trim tab cable stop	1	
-48	159-52565	STOP ASSEMBLY, Rudder trim tab cable.	2	
-49	AN365-428	NUT	2	
-50	AN4-10A	BOLT (Magnetic inspected)	2	
-51	AN210-4A	PULLEY.	1	
-52	159-52424	CABLE ASSEMBLY, Rudder adjustment control forward	1	4-180
-53	159-52466	CABLE ASSEMBLY, Rudder pedal adjustment control aft	1	181-
	159-524100	CABLE ASSEMBLY, Rudder pedal adjustment control aft	1	
-54	AN320-4	NUT	2	
-55	AN960D416	WASHER.	2	
-56	AN24-11	BOLT (Magnetic inspected)	2	
-57	AN165-32L	EYE	2	
-58	AN155-32L	BARREL.	2	
-59	AN320-4	NUT	2	
-60	AN960D416	WASHER.	2	
-61	AN24-11	BOLT (Magnetic inspected)	2	
-62	159-52426	CABLE ASSEMBLY, Rudder control forward.	2	
-63	159-52216	CABLE ASSEMBLY, Elevator control forward.	1	4-82
-64	159-52425	CABLE ASSEMBLY, Rudder bus control.	1	83-
	159-52490	CABLE ASSEMBLY, Rudder control bus.	1	
-65	AN210-1A	PULLEY	1	4-180
-66	AN210-2A	PULLEY	1	181-
	AN210-1A	PULLEY	Ref	
-67	159-52421	BRACKET ASSEMBLY, Rudder pedal adjustment handle (see fig. 101).	Ref	
-68	159-52005	MECH ASSY, Rud & ail. interconnect control lock (see fig. 67).	Ref	
-69	159-43130	LOCK INSTALLATION, Engine control throttle (see figure 105).	Ref	
-70	159-52501	PANEL ASSEMBLY, Trim tab control mechanism fwd (see fig. 115).	Ref	
-71	159-52502	PANEL ASSEMBLY, Trim tab control mechanism aft (see fig. 115).	Ref	
-72	159-52519	CABLE ASSEMBLY, Aileron trim tab outbd control (see fig. 64)	Ref	
-73	AN155-32L	BARREL (See 159-31001)	Ref	
-74	See 159-52032 for	these cable assemblies		

FUSELAGE SURFACE CONTROLS (Cont)





T-28A-4-52-4

ELEVATOR CONTROL BOBWEIGHT ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
107	159-52229	BOBWEIGHT ASSY, Elevator control (superseded by 171-52229. 159-52229 may be used interchangeably with 171-52229 until stock is exh) (see fig. 106 for next assy)	Ref	
	171-52229	BOBWEIGHT ASSY, Elevator control (supersedes 159-52229 for future procurement) (see fig. 106 for next assy)	Ref	
-1	AN365-1032	. NUT	5	
-2	AN960D10L	. WASHER	5	
-3	NAS221-17	. SCREW, Brazier head Phillips recess alloy steel 10-32 (Magnetic inspected)	3	
-4	NAS221-19	. SCREW, Brazier head Phillips recess alloy steel 10-32 (Magnetic inspected)	1	
-5	NAS221-30	. SCREW, Brazier head Phillips recess alloy steel 10-32 (Magnetic inspected)	1	
-6	159-52232	. BOBWEIGHT, Elevator control	1	
-7	AN365-428	. NUT (used on 159-52229)	2	
-8	AN960D416	. WASHER (used on 159-52229)	2	
-9	AN960D416L	. WASHER (used on 159-52229)	1	
-10	AN509-416R19	. SCREW, (Magnetic inspected) (Used on 159-52229)	1	
-11	AN4H12A	. BOLT (Magnetic inspected) (used on 159-52229)	1	
-12	AN4-10A	. BOLT (Magnetic inspected) (used on 159-52229)	1	
-13	159-52229-3	. BRACKET ASSY, Elevator control (riveted)	1	
	171-52229-3	. BRACKET ASSY, Elevator control (riveted)	1	
	159-52230	. . ARM ASSY, Elev cont bobweight sup (used on 159-52229-3)	1	
-14	RD206SH6.5	. . . INSERT (Rosan)	1	
-15	RL28SB8	. . . LOCK RING (Rosan)	1	
-16	159-52202	. SECTOR ASSY, Elev control cable fwd (used on 159-52229)	1	
	171-52202	. SECTOR ASSY, Elev control cable fwd (used on 171-52229)	1	
-17	AN200KP4	. . BEARING	3	
-18	4S7-5-1.250	. . SPACER, Flanged dual bearing (North American) (used on 171-52202)	1	
	4S7-5-1.282	. . SPACER, Flanged dual bearing (North American) (used on 159-52202)	1	

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FUSELAGE SURFACE CONTROLS (CONT)

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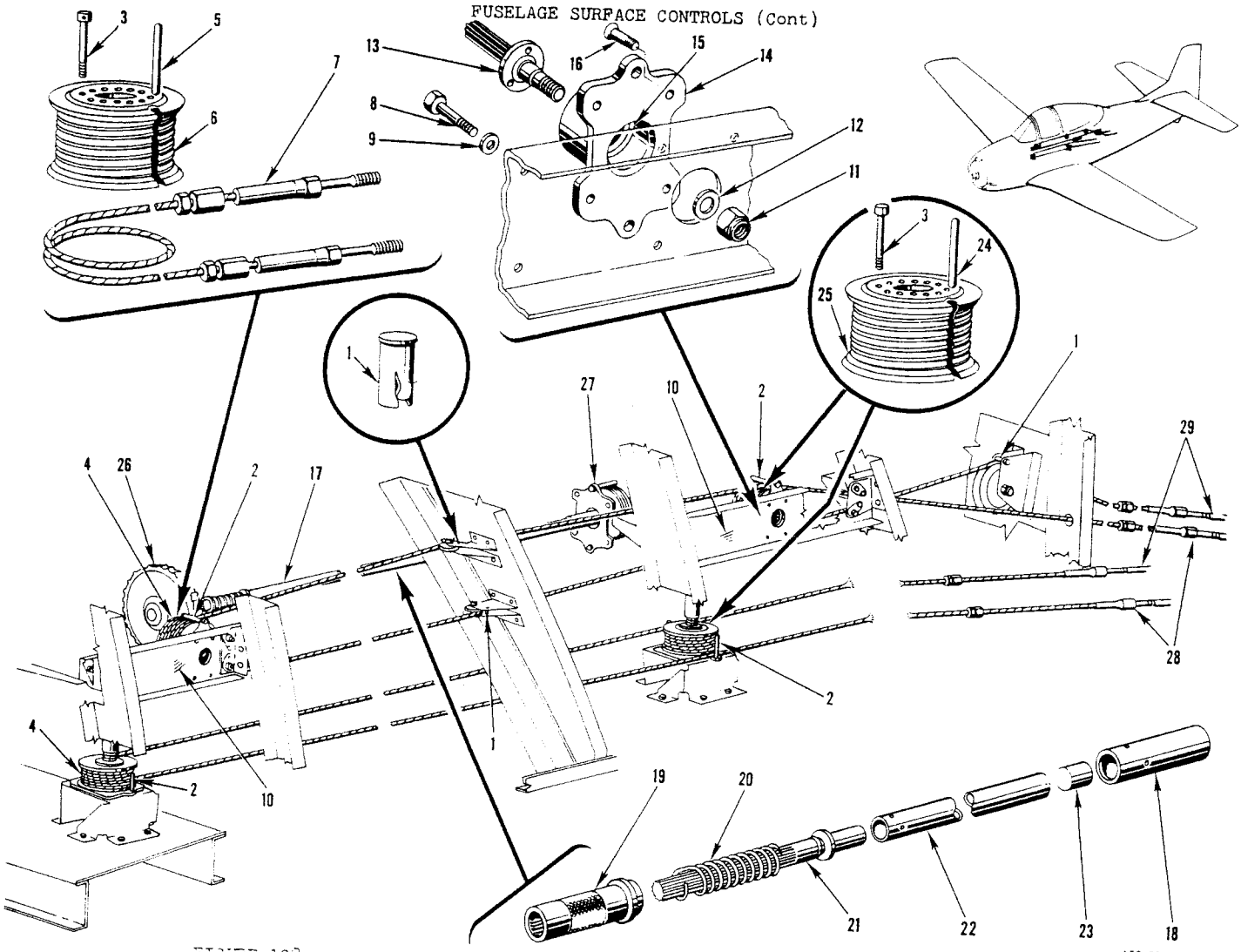

FIGURE 108 - FUSELAGE STATION 87 TO 168 ELEVATOR AND RUDDER TRIM TAB DRUMS

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
108	159-52570	DRUM INSTALLATION, Elevator and rudder trim tab fuselage station 87 to 168 (see figure 62 for next assembly)	NP	
-1	NAS427K8	. PIN, Pulley guard	3	
-2	NAS427T21	. PIN, Pulley guard	10	
-3	AN501A10-6	. SCREW	12	
-4	159-52559	. DRUM ASSEMBLY, Elevator trim control forward cable	1	
	159-52568	. DRUM ASSEMBLY, Rudder trim control forward cable	1	
-5	2P5-6	. . PIN, Locking (North American)	1	
-6	3D1	. . DRUM, Cable (North American)(supersedes 102-52509)	1	
-7	159-52532	. . CABLE ASSEMBLY, Elevator trim tab control forward	1	
	159-52534	. . CABLE ASSEMBLY, Rudder trim tab control forward	1	
-8	AN3-4A	. BOLT	1	
-9	AN960D10	. WASHER	8	
-10	159-52544	. BRACKET ASSEMBLY, Elevator trim tab rear cockpit	8	
	159-52543	. BRACKET ASSEMBLY, Elevator trim tab forward cockpit	1	
-11	AN365-524	. . NUT	1	
-12	2W1-20-20-64	. . WASHER, Plain (North American)	1	
-13	159-52508	. . SHAFT, Rudder and elevator trim tab control drum	1	
-14	159-52542	. . SUPPORT ASSEMBLY, Trim tab control cockpit drum	1	
-15	AN201K8A	. . . BEARING	1	
-16	AN509-10-10	. . SCREW	1	
-17	159-52514	. SHAFT ASSY, Aileron trim tab control intercockpit	4	
-18	159-52525	. . SOCKET, Ail. trim tab control cockpit splinded	1	
-19	146-52603	. . COLLAR, Flap drive shaft lock	1	
-20	146-52604	. . SPRING, Flap drive shaft collar	1	
-21	159-52539	. . SHAFT, Ail. & elev trim tab control disconnect splined	1	
-22	159-52514-3	. . TUBE, Aileron trim tab control intercockpit	1	
-23	159-52117-5	. . PLUG, Rod end and tube rivet	1	
-24	2P5-6	. PIN, Locking (North American)	1	
-25	3D1	. DRUM, Cable (North American) (supersedes 102-52509)	2	
-26	159-52501	PANEL ASSEMBLY, Trim tab control mechanism (see figure 115)	1	
-27	159-31427	CHANNEL ASSY, Aft console control quadrant sup.left (see fig.64)	Ref	
-28	AN155-32L	BARREL (see 159-31001)	Ref	
-29	See 159-52032 for	These Cable Assemblies	Ref	
			Ref	

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FUSELAGE SURFACE CONTROLS (Cont)

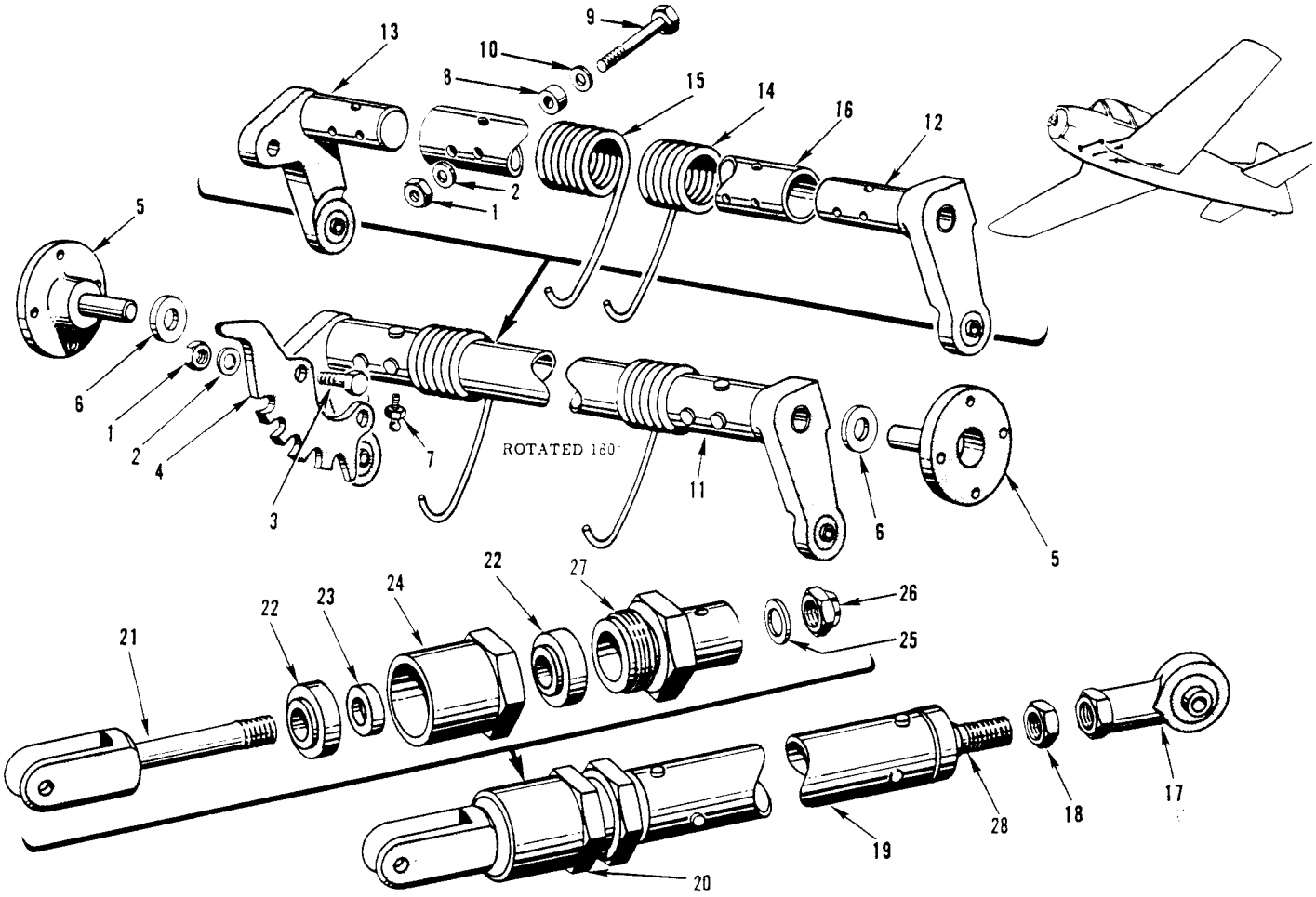

FIGURE 109 - RUDDER PEDAL ADJUSTMENT AND ELEVATOR CONTROL TUBE ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
109		RUDDER PEDAL ADJUSTMENT AND ELEVATOR CONTROL TUBE ASSEMBLIES		
	159-52415	. TUBE ASSEMBLY, Rudder pedal adjustment (see figure 106 for next assembly and attaching parts)	Ref	
-1	AN365-428	. . NUT	4	
-2	AN960-416	. . WASHER	4	
-3	AN4-7A	. . BOLT (Magnetic inspected)	2	
-4	159-52417	. . RATCHET, Rudder pedal adjustment	1	
-5	159-52436	. . SUPPORT, Rudder pedal adjustment traverse tube	2	
-6	AN960-816	. . WASHER	2	
-7	NAS2-101	. . FITTING, Lubrication	2	
-8	4S4D8-8	. . SPACER, Rivet (North American)	2	
-9	AN4-17A	. . BOLT	2	
-10	945-4P	. . WASHER	2	
-11	159-52415-9	. . TUBE ASSEMBLY, Rudder pedal adjustment riveted	1	
-12	159-52416-7	. . . BELLCRANK, Rudder pedal adjustment tube	1	
-13	159-52416-9	. . . BELLCRANK, Rudder pedal adjustment tube	1	
-14	159-52408-1	. . . SPRING, Rudder pedal adjustment return LH	1	
-15	159-52408-2	. . . SPRING, Rudder pedal adjustment return RH	1	
-16	159-52440	. . . TUBE, Rudder pedal adjustment traverse	1	
	159-52204	. TUBE ASSEMBLY, Elevator control (see figure 106 for next assembly and attaching parts)	Ref	
-17	159-52249	. . ROD END, Elevator control stick to bellcrank (replaces 117-52116) (made from Fafnir Bearing No. RE4F5)	1	
-18	AN316-5R	. . NUT	1	
-19	159-52204-5	. . TUBE ASSEMBLY, Elevator control riveted	1	
-20	159-52206	. . . SWIVEL ASSEMBLY, Elevator control tube	1	
-21	159-52207	. . . . FORK, Elevator control tube swivel	1	
-22	AN200K4	. . . . BEARING	2	
-23	4S6-4-0.187	. . . . SPACER, Plain dual bearing (North American)	1	
-24	159-52208	. . . . RETAINER, Elevator control tube swivel bearing	1	
-25	AN960-416	. . . . WASHER	1	
-26	AN310-4	. . . . NUT	1	
-27	159-52209	. . . . FITTING, Elevator control tube swivel	1	
-28	159-52205	. . . ADAPTER, Elevator control tube rod end	1	

FUSELAGE SURFACE CONTROLS (cont)

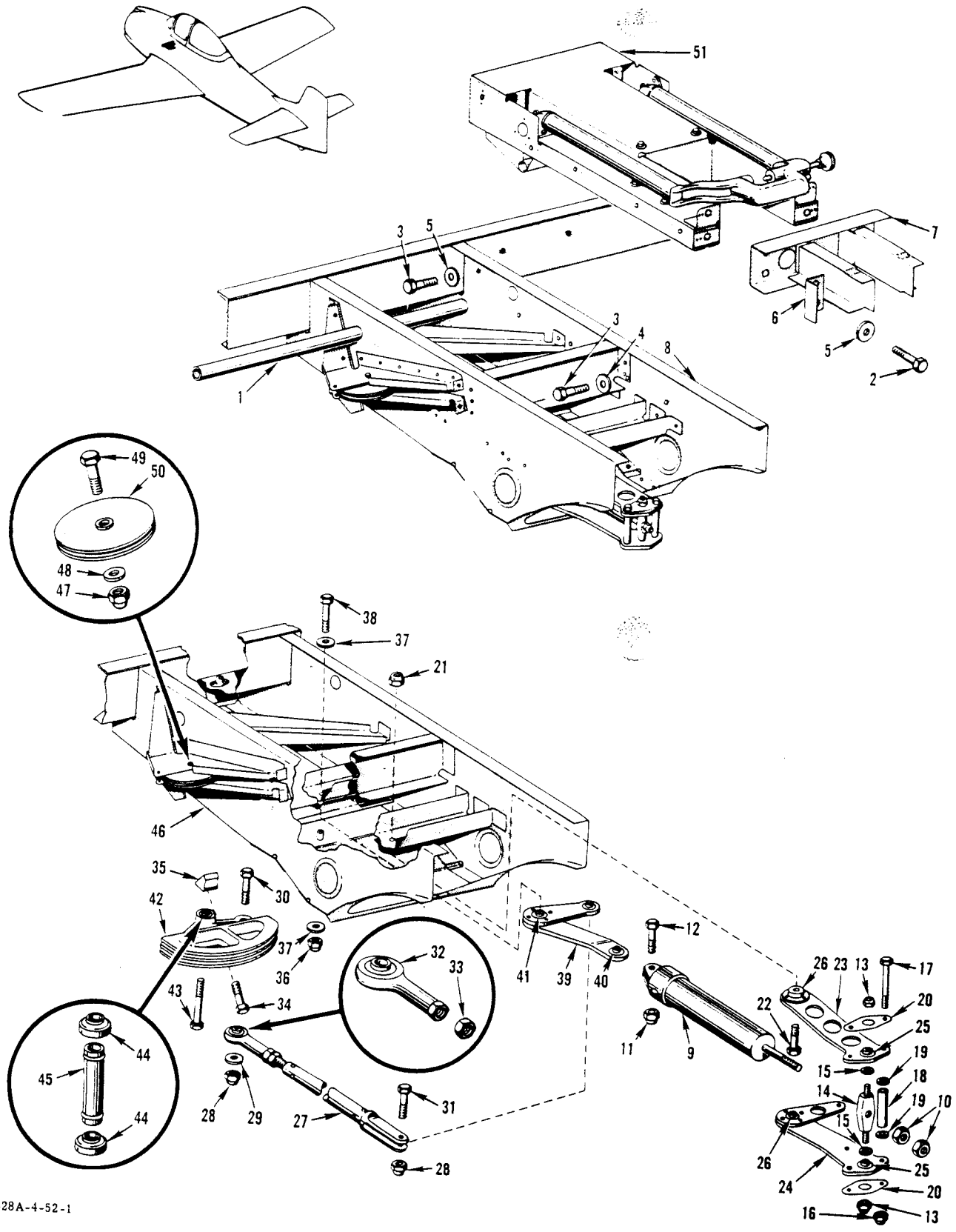

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FIGURE 110 - RUDDER AND AILERON INTERCONNECT CONTROL LOCK MECHANISM ASSEMBLY

FUSELAGE SURFACE CONTROLS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
110	159-52005	MECHANISM ASSY, Rudder and aileron interconnect control lock (see figure 67 for next assy)	Ref	4-60
	159-52005-10	MECHANISM ASSY, Rudder and aileron interconnect control lock (see figure 67 for next assy)	Ref	61-82
-1	159-43140	. TUBE, Throttle lock actuating torque	1	4-82
-2	AN3-5A	. BOLT	4	4-82
-3	AN3-4A	. BOLT	7	4-82
-4	AN960D10L	. WASHER	1	4-82
-5	AN960D10	. WASHER	10	4-82
-6	159-52122	. CLIP, Control stick support fuselage station 83	1	4-82
-7	159-52120	. SUPPORT ASSY, Control stick fuselage station 83	1	4-82
-8	159-52450	. INTERCONNECT ASSY, Complete rudder and aileron	1	4-60
	159-52450-10	. INTERCONNECT ASSY, Complete rudder and aileron	1	61-82
-9	159-52454	. . BUNGEE ASSY, Rudder and aileron control interconnect (refer to T. O. 16C1-1-114 for list of detail parts)	1	4-60
	ATTACHING PARTS			
-10	AN316-4R	. . NUT	2	4-60
-11	AN365-428	. . NUT	1	4-60
-12	AN4-7A	. . BOLT	1	4-60
	---*---			
-13	AN365-1032	. . NUT	2	4-60
-14	159-52449	. . TRUNNION, Rudder & aileron control interconnect arm	1	4-60
-15	AN960D10L	. . WASHER	AR	4-60
-16	AN365-428	. . NUT	2	4-60
-17	AN4-24A	. . BOLT	2	4-60
-18	MAS43-4-110	. . SPACER, Bolt (supersedes 4S3D416-55)	2	4-60
-19	AN960D416L	. . WASHER	AR	4-60
-20	159-52462	. . RETAINER, Rudder and aileron control interconnect arm bearing	2	4-60
-21	AN365-428	. . NUT	2	4-60
-22	AN4-10A	. . BOLT	2	4-60
-23	159-52461	. . ARM ASSY, Rudder & aileron control interconnect upper	1	4-60
-24	159-52453	. . ARM ASSY, Rudder & aileron control interconnect lower	1	4-60
-25	AN200K3L	. . . BEARING	1	4-60
-26	AN218-4	. . . BEARING	1	4-60
-27	159-52445	. . ROD ASSY, Rudder aileron sector to lever interconnect	1	4-60
	ATTACHING PARTS			
-28	AN365-428	. . NUT	2	4-60
-29	945-4P	. . WASHER	1	4-60
-30	AN4-12A	. . BOLT	1	4-60
-31	AN4-7A	. . BOLT	1	4-60
	---*---			
-32	RE4F5	. . . END, Rod (Fafnir Bearing)	1	4-60
-33	AN316-5R	. . . NUT	1	4-60
-34	AN4H7	. . BOLT	1	4-82
-35	159-52451	. . LOCK, Rudder bus cable	1	4-82
-36	AN365-428	. . NUT	1	4-60
-37	AN960D416	. . WASHER	2	4-60
-38	AN4-21A	. . BOLT	1	4-60
-39	159-52452	. . BELLCRANK ASSY, Rudder aileron control interconnect	1	4-60
-40	AN201K4A	. . . BEARING	2	4-60
-41	AN218-4	. . . BEARING	1	4-60
-42	159-52447	. . SECTOR ASSEMBLY, Rudder and ail. control interconnect	1	4-82
	ATTACHING PARTS			
-43	AN4H32	. . BOLT	1	4-82
	---*---			
-44	AN201K4A	. . . BEARING	2	4-82
-45	4S7-4-2.134	. . . SPACER, Flanged dual bearing (North American)	1	4-82
-46	159-52448	. . BRACKET ASSY, Rudder & aileron control interconnect	1	4-82
-47	AN365-428	. . . NUT	1	4-82
-48	AN960D416	. . . WASHER	1	4-82
-49	AN4-11A	. . . BOLT	1	4-82
-50	AN210-4A	. . . PULLEY	1	4-82
-51	159-52010	. MECHANISM ASSEMBLY, Complete control lock (see figure 113 for detail breakdown)	1	4-82

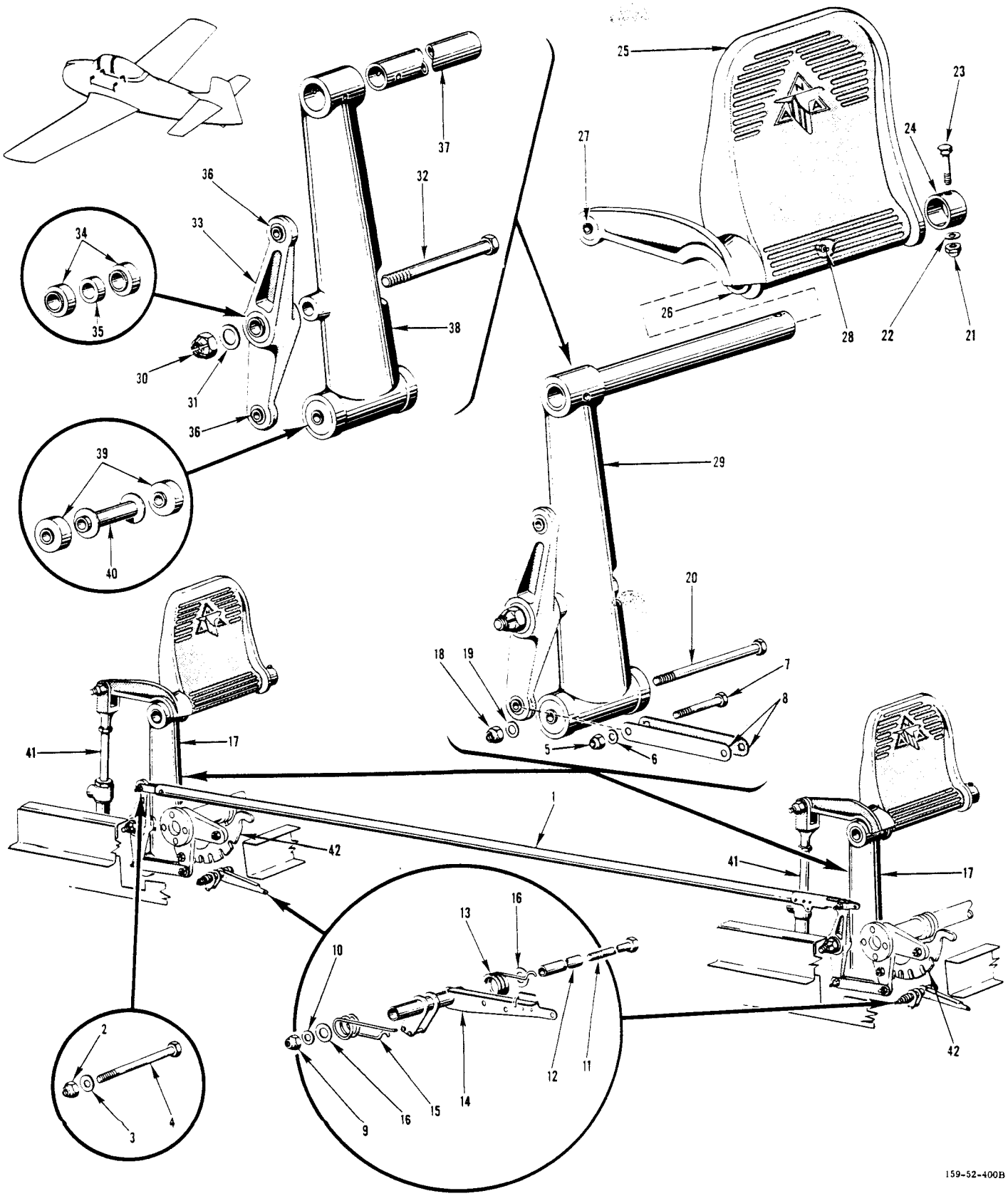

FIGURE 111 - LEFT AND RIGHT SIDES RUDDER PEDAL CONTROLS

FUSELAGE SURFACE CONTROLS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
111	159-52474	PEDAL CONTROLS INSTALLATION, Left side rudder (see figure 62 for next assembly)	NP	
	159-52475	PEDAL CONTROLS INSTALLATION, Right side rudder (see figure 58 for next assembly)	NP	
-1	159-52405	. TUBE ASSEMBLY, Rudder pedal interconnect	1	
	ATTACHING PARTS			
-2	AN365-428	. NUT	2	
-3	AN960D416	. WASHER	2	
-4	AN4-10A	. BOLT (magnetic inspected, (forward)	1	
	AN4-7A	. BOLT (magnetic inspected, (aft)	1	
	---*---			
	159-52414-1	. . STRAP, Rudder pedal interconnect tube rear LH	1	
	159-52414-2	. . STRAP, Rudder pedal interconnect tube rear RH	1	
-5	AN365-428	. NUT	2	
-6	AN960D416	. WASHER	2	
-7	AN4-7A	. BOLT (Magnetic inspected)	2	
-8	159-52409	. LINK, Rudder pedal and adjustment interconnect	4	
-9	AN365-428	. NUT (Used on 159-52474)	2	
-10	AN960D416	. WASHER (Used on 159-52474)	2	
-11	AN4-32A	. BOLT (Magnetic inspected) (Used on 159-52474	1	
-12	MB2184-222	. BUSHING, Spacer (North American)	2	
-13	159-52438	. SPRING, Rudder pedal adjustment pawl inboard (used on 159-52474)	2	
-14	159-52413-31	. PAWL ASSEMBLY, Rudder pedal adjustment	2	
	159-52497	. . STOP, Rudder pedal adjustment pawl	1	
-15	159-52419	. SPRING, Rudder pedal adjustment pawl outboard (used on 159-52474)	2	
-16	AN960-616L	. WASHER (Used on 159-52474)	4	
-17	159-52410-1	. PEDAL ASSEMBLY, Complete rudder LH	1	
	159-52410-2	. PEDAL ASSEMBLY, Complete rudder RH	1	
	ATTACHING PARTS			
-18	AN365-524	. NUT	2	
-19	AN960D516	. WASHER	2	
-20	AN5-36A	. BOLT (Magnetic inspected)	2	
	---*---			
-21	AN365-1032	. . NUT	1	
-22	AN960D10L	. . WASHER	1	
-23	AN3-15A	. . BOLT	1	
-24	159-52434	. . COLLAR, Rudder pedal retaining	1	
-25	159-52496-1	. . PEDAL ASSEMBLY, Rudder LH	1	
	159-52496-2	. . PEDAL ASSEMBLY, Rudder RH	1	
-26	159-52433	. . . BUSHING, Rudder pedal tube	2	
-27	AN200KS4	. . . BEARING	1	
-28	AN944-101	. . . FITTING	1	
-29	159-52411	. . LEVER AND SUPPORT ASSEMBLY, Rudder pedal	1	
-30	AN320-8	. . . NUT	1	
-31	AN960D516	. . . WASHER	1	
-32	AN28-5A	. . . BOLT	1	
-33	159-52404-5	. . . LEVER ASSEMBLY, Rudder pedal interconnect	1	
-34	AN201K8	. . . . BEARING	2	
-35	4S6-8-312	. . . . SPACER, Plain dual bearing (North American)	1	
-36	AN201K4A	. . . . BEARING	2	
-37	159-52437	. . . TUBE, Rudder pedal support	1	
-38	159-52403	. . . SUPPORT ASSEMBLY, Rudder pedal	1	
-39	AN200K5	. . . . BEARING	2	
-40	4S7-8-1.948	. . . . SPACER, Flanged dual bearing (North American)	1	
-41	159-58036	CYLINDER ASSEMBLY, Complete hydraulic master brake (figure 137 and 138)	Ref	
-42	159-52415	TUBE ASSY, Rud pedal adjustment (see fig. 109)	Ref	

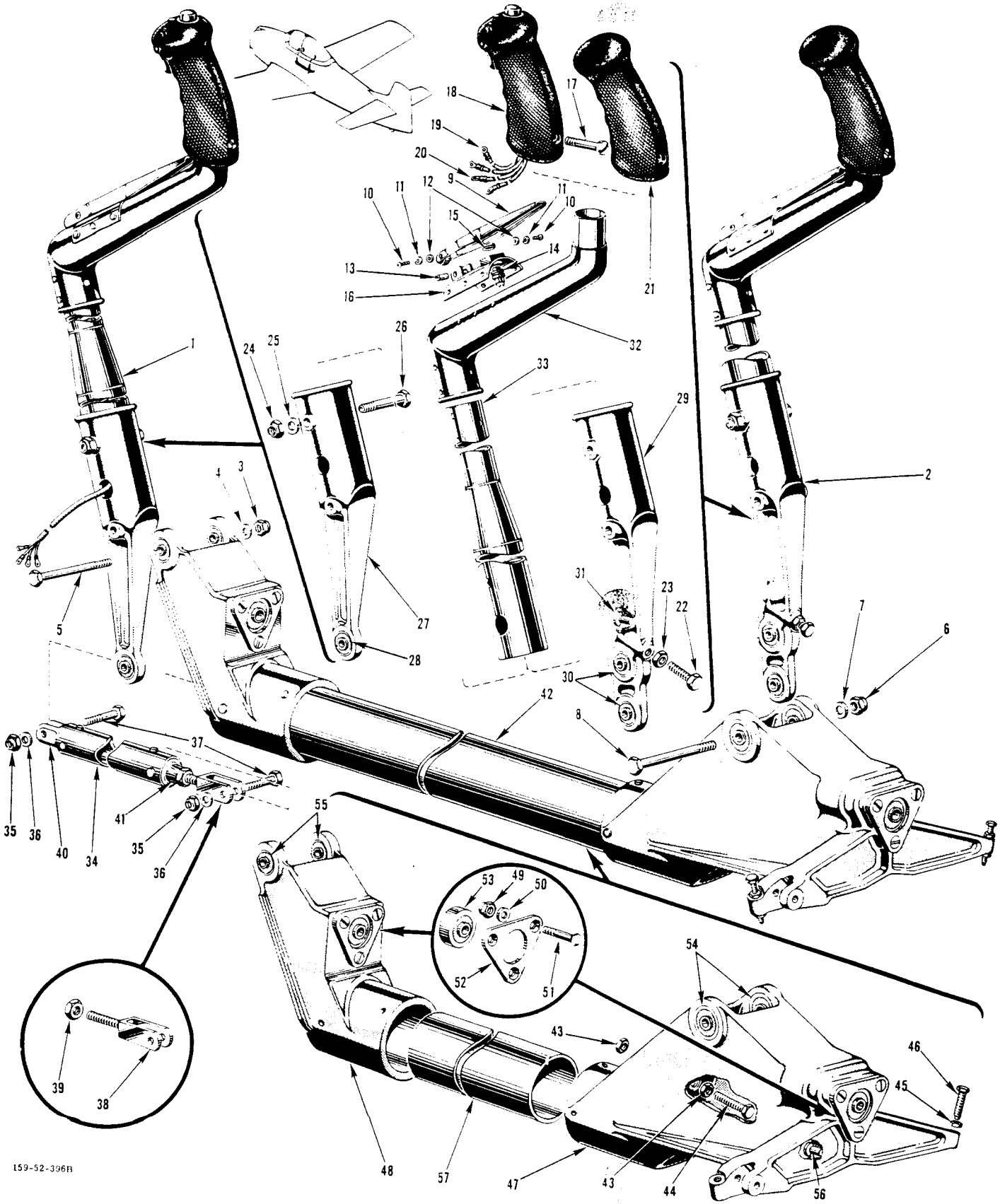

FIGURE 112 - FORWARD AND AFT CONTROL STICK ASSEMBLIES COMPLETE

FUSELAGE SURFACE CONTROLS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
112	159-52125		STICK ASSEMBLY, Forward and aft control complete (see fig. 51 for next assembly and attaching parts)	Ref	
-1	159-52107		. STICK ASSEMBLY, Forward cockpit control	1	
-2	159-52118		. STICK ASSEMBLY, Aft cockpit control	1	
	ATTACHING PARTS				
-3	AN365--28		. NUT	1	
-4	AN960--16L		. WASHER	1	
-5	AN174--36A		. BOLT (supersedes 6--36A) (magnetic inspected)	1	
-6	AN365-524		. NUT	1	
-7	AN960-516L		. WASHER	1	
-8	AN174--37A		. BOLT (supersedes 6--37A) (magnetic inspected)	1	
	---*---				
-9	159-5-277-9		. . HANDLE ASSY, Electrical nose gear steering (supersedes 159-5-277-7)	1	
	159-5-291		. . . SPRING, Electrical nose gear steering handle	1	
-10	AN515-6R6		. . SCREW	2	
-11	AN960-6		. . WASHER	2	
-12	AN960-6L		. . WASHER	1	
-13	159-5-282-5		. . SPACER, Electrical steering switch arm (supersedes 159-5-282-3)	1	
-14	178818		. . SWITCH (Cointe)	1	
-15	159-513164		. . RETAINER, Control switch	1	
-16	159-5-295		. . SUPPORT ASSY, Electrical nose gear steering (supersedes 159-5-279)	1	
-17	AN501-10-24		. . SCREW	1	
-18	159-5-107		. . SWITCH ASSY, Elec control stick (Used on 159-52107)	1	
-19	4-211-52		. . . SWITCH ASSY, Control stick type Bc (DFAE)(Spec. 2-P01). (AERNO 82-5001)	1	
-19	51886		. . . TERMINAL (Aircraft Marine Products or equiv)	1	
-20	114882		. . . TERMINAL (Aircraft Marine products)	1	
-21	AN3003-1		. . SHIP (Used on 159-52118)	1	
-22	MS1-12		. . BOLT, Adjustment (North American) (magnetic inspected) (Used on 159-52118)	1	
-23	AN316--5		. . NUT (Used on 159-52118)	1	
-24	AN365--428		. . NUT	1	
-25	AN960D416		. . WASHER	1	
-26	AN174--25A		. . BOLT (magnetic inspected)	1	
-26.1	159-52105-5		. . SOCKET ASSY, Control stick forward (Used on 159-52107)	1	
-26.2	AN200K4		. . . BEARING	1	
-26.3	159-52104-5		. . SOCKET ASSY, Control stick aft (Used on 159-52118)	1	
-26.4	AN200K4		. . . BEARING	1	
-26.5	1F7		. . . PLUG, Control stick (North American)	1	
-27	159-52109		. . EXTENSION, Control stick (Used on 159-52107)	1	
	159-52109-3		. . EXTENSION, Control stick (supersedes for future procurement 159-52119 on 159-52118)	1	
-33	159-52108-5		. . STICK, Control (Used on 159-52107)	1	
	159-52108-3		. . STICK, Control (Used on 159-52118)	1	
-34	159-52113		. TUBE ASSEMBLY, Control stick elevator connecting	1	
	ATTACHING PARTS				
-35	AN310-4		. NUT	2	
-36	AN960--16		. WASHER	2	
-37	AN174-12		. BOLT (supersedes 6--12) (magnetic inspected)	2	
	---*---				
-38	159-52116		. . CLEVIS, Rod end	2	
-39	AN316-5R		. . NUT	2	
-40	159-52114		. . CLEVIS, Control stick elev control connecting tube	1	
-41	159-52115		. . ADAPTER, Control stick elev control connecting tube clevis	1	
-42	159-52110		YOKE ASSY, Control stick aileron torque tube	1	
-43	AN316-5R		. . NUT	2	
-44	MS3-12		. . BOLT, Adjustment (North American)	2	
-44.1	AN316--R		. . NUT	1	
-44.2	MS2-12		. . BOLT, Adjustment (North American)	1	
-44.3	159-52103		. . YOKE ASSY, Control stick torque tube aft	1	
-44.4	159-52102		. . YOKE ASSY, Control stick torque tube forward	1	
-44.5	AN365-428		. . . NUT	1	
-44.6	AN960--16		. . . WASHER	1	
-44.7	AN509--416-20		. . . SCREW (aft)	1	
	AN509--416-21		. . . SCREW (fwd)	1	
-52	159-52119		. . . RETAINER, Control stick aileron torque tube pivot bearing	1	
-53	AN200KP6		. . . BEARING	1	
-53.1	AN200KP5		. . . BEARING	1	
-53.2	AN200KP4		. . . BEARING	1	
-53.3	1F7		. . . PLUG, Control stick (North American)	1	
-53.4	159-52106		. . TUBE, Control stick aileron torque	1	

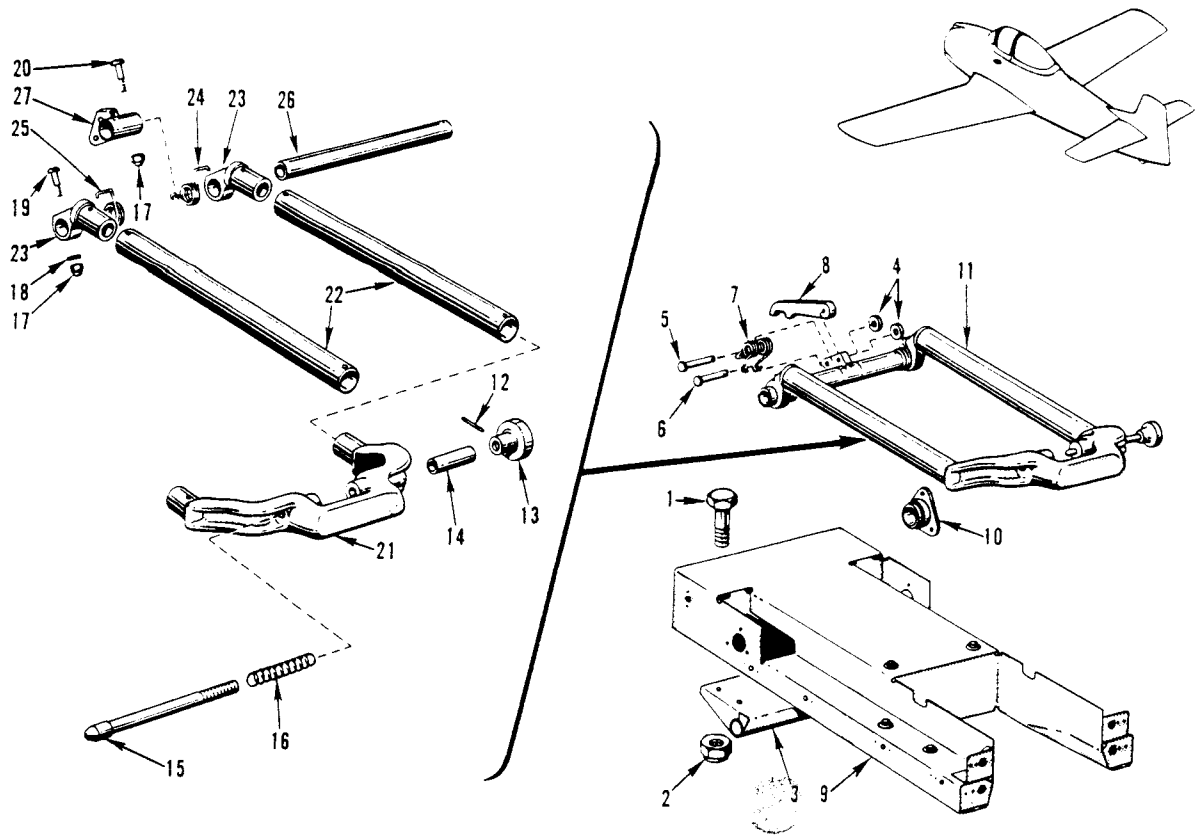

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FIGURE 113 - COMPLETE CONTROL LOCK MECHANISM ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
113	159-52013	MECHANISM ASSEMBLY, Complete control lock (see Figure 87 and 110 for next assembly)	Ref	
-1	AN3-4A	. BOLT	4	
-2	AN365-1032	. NUT	4	
-3	159-52443	. BARREL ASSEMBLY, Rudder bus cable lock sleeve	1	
-4	AN960D10L	. WASHER	2	
-5	AN393-19	. PIN	1	
-6	AN393-15	. PIN	1	
-7	159-52022	. SPRING, Control cable locking latch	1	
-8	159-52017	. LATCH, Control cable locking	1	
-9	159-52028	. HOUSING ASSEMBLY, Control lock handle	1	
-10	159-52018	. . BEARING ASSEMBLY, Control lock handle torque tube	1	
	4B20B10-512	. . . BUSHING, Press-fit flanged	2	
-11	159-52011	. HANDLE ASSEMBLY, Control lock	1	
-12	159-52011-3	. . PIN, Control lock handle	1	
-13	159-52021	. . KNOB, Control lock handle plunger	1	
-14	NAS42-8-54	. . SPACER, Rivet (supersedes 4S4-8-27)	1	
-15	159-52020	. . PLUNGER, Control lock handle	1	
-16	159-52019	. . SPRING, Control lock plunger	1	
-17	AN365-1032	. . NUT	3	
-18	AN960D10L	. . WASHER	2	
-19	AN23-21A	. . BOLT	2	
-20	AN23-17A	. . BOLT	1	
	159-52011-5	. . HANDLE ASSEMBLY, Control lock (riveted)	1	
-21	159-52012	. . . HANDLE, Control lock	1	
-22	159-52014	. . . TUBE, Control lock handle	1	
-23	159-52026-3	. . . END, Control lock tube (supersedes 159-52015)	2	
-24	159-52023-1	. . SPRING, Control lock handle downlock LH	1	
-25	159-52023-2	. . SPRING, Control lock handle downlock RH	1	
-26	159-52016	. . TUBE, Control lock handle	1	
-27	159-52025	. . HOUSING ASSEMBLY, Control cable locking latch	1	

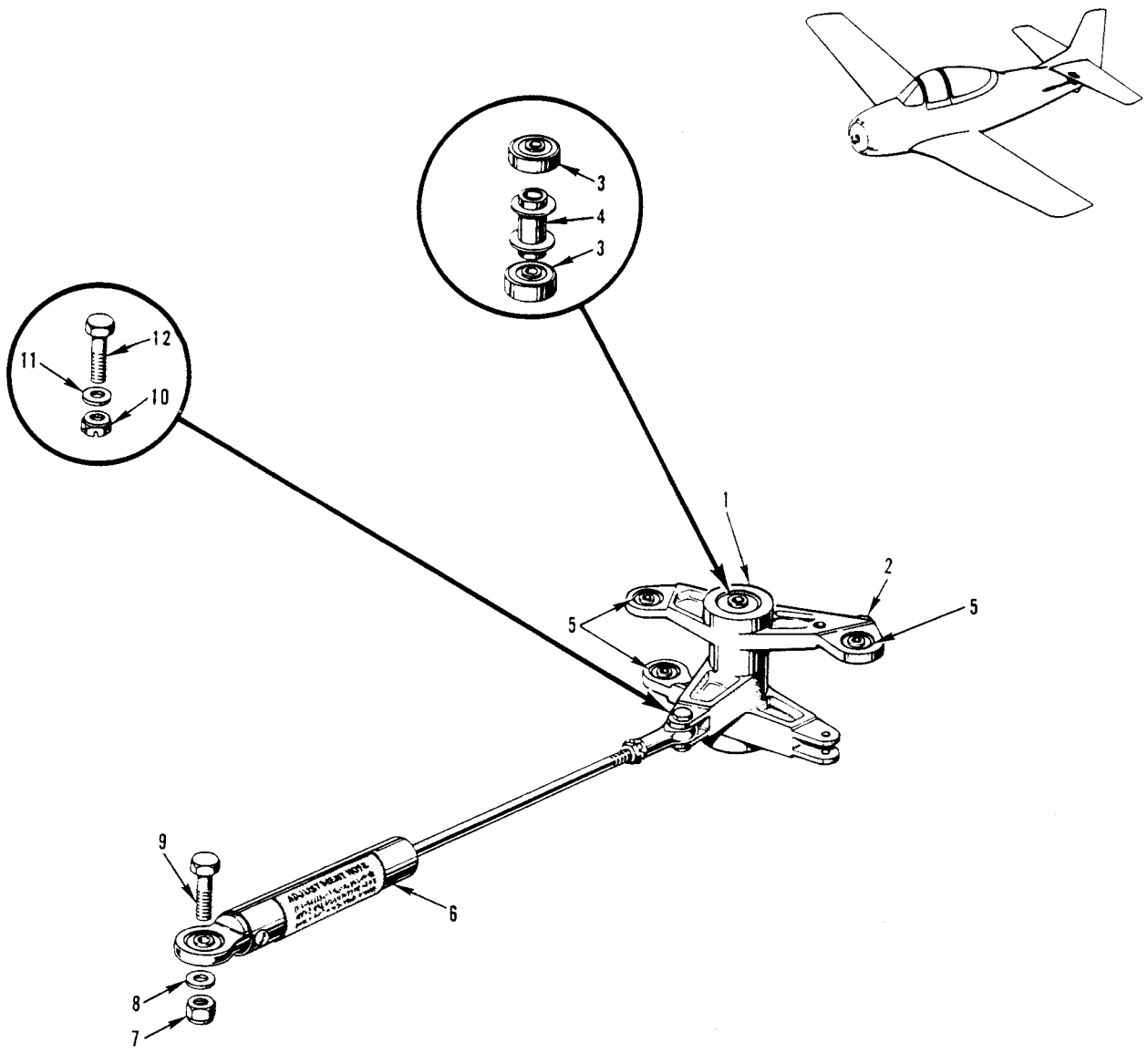

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FIGURE 114 - RUDDER CONTROL BELLCRANK AND BUNGEE ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
114	No Number	RUDDER CONTROL BELLCRANK AND BUNGEE ASSEMBLIES (see figure 118 for next assembly)	NP	
-1	159-52478	. BELLCRANK ASSY, Rudder control and auxiliary alighting gear steering	1	4-545
	159-524101	. BELLCRANK ASSY, Rudder cont & aux alighting gear steering	1	546-
-2	1P7	. . PLUG, Control stock (North American)	2	4-545
-3	AN200KP5	. . BEARING	2	
-4	4S7-8-2.571	. . SPACER, Flanged dual bearing (North American)	1	
-5	AN200KP4	. . BEARING	3	
-6	159-52483	. BUNGEE ASSY, Rudder control centering (refer to T. O. 16C1-1-114 for list of detail parts)	1	
		ATTACHING PARTS		
-7	AN365-428	. NUT	1	
-8	AN960D416	. WASHER	1	
-9	AN4-11A	. BOLT	1	
-10	AN310-3	. NUT	1	
-11	AN960D10	. WASHER	1	
-12	AN3-11	. BOLT	1	

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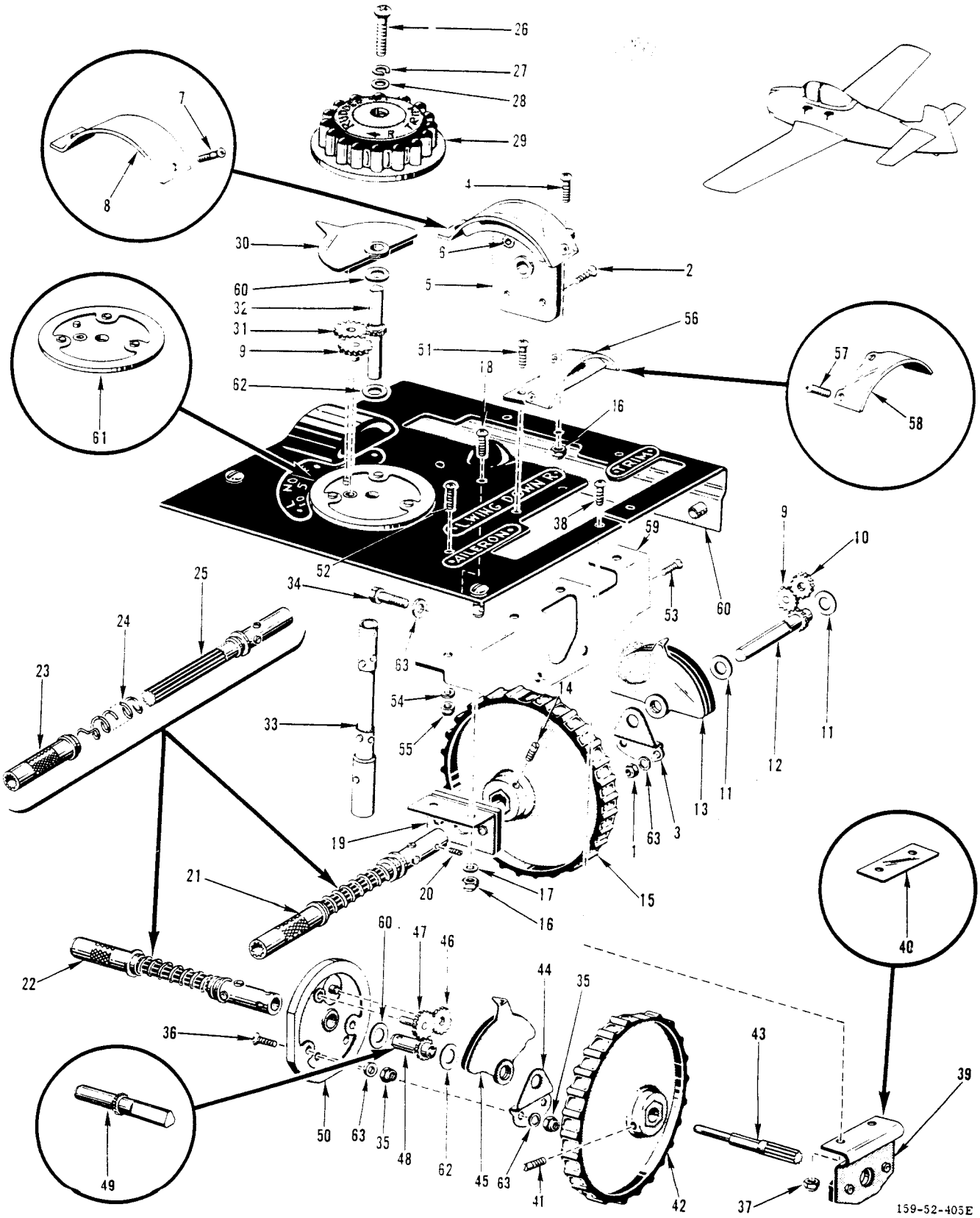


FIGURE 115 - FORWARD AND AFT TRIM TAB CONTROL MECHANISM PANEL ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
115	159-52501	PANEL ASSY, trim tab control mech fwd (see fig. 62 for next assy)	Ref	
	159-52502	PANEL ASSY, trim tab control mech aft (see fig. 62 for next assy)	Ref	
-1	AN364-1032	. NUT	2	
-2	AN509-10R8	. SCREW	2	

FUSELAGE SURFACE CONTROLS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
115-3	134-52546	. CLIP, Aileron and elevator trim tab control	1	
-4	AN515-8R8	. SCREW	2	
-5	159-52511	. HOUSING ASSY, Elevator trim tab position indicator gear	1	
-6	159-52515	. . BUSHING, Rud & elev trim tab position indicator base	1	
-7	AN515-6-6	. . SCREW	1	
	AN960D6	. . WASHER	1	
-8	159-52521	. . GUARD, Elevator trim tab position indicator transparent	1	
-9	159-52516	. GEAR ASSY, Elevator & rudder trim tab position indicator	2	
	G103	. . GEAR (Boston Gear Works)	1	
-10	G139	. GEAR (Boston Gear Works)	1	
-11	2W1-24-22-5	. WASHER, Plain (North American)	2	
	2W1B24-22-20	. WASHER, Plain (North American)	AR	
-12	134-52545	. SHAFT, Aileron and elevator trim tab position indicator (altered from Boston Gear GS47)	1	
-13	159-52527-11	. POINTER ASSY, Rudder trim tab cockpit indicator	1	
	159-52530	. . GEAR, Elev and rudder trim tab cockpit indicator internal. (altered from American Stock Gear No. BI48120, Catalog 200, Page 50)	1	
-14	AN500A8-10	. SCREW	1	
-15	159-52523	. WHEEL ASSY, Aileron and elevator trim tab control	1	
-16	AN365-832	. NUT	4	
-17	AN960D8	. WASHER	2	
-18	AN515-8R7	. SCREW	2	
-19	159-52549	. SUPPORT ASSY, Elevator trim tab control quick disconnect	1	
-20	AN565D8H3	. SCREW	1	
-21	159-52546	. DISCONNECT ASSEMBLY, Elevator trim tab control quick	1	
-22	159-52548	. DISCONNECT ASSY, Ail. trim rear cockpit quick (on 159-52502 only)	1	
-23	146-52603	. . COLLAR, Flap drive shaft lock	1	
-24	146-52604	. . SPRING, Flap drive shaft collar	1	
-25	159-52546-7	. . ADAPTER AND SHAFT ASSY, Elevator trim tab control quick disconnect (riveted) (on 159-52546 only)	1	
	159-52548-7	. . SLEEVE AND SHAFT ASSY, Aileron trim rear cockpit quick disconnect (on 159-52548 only)	1	
-26	MS1-10-5	. SCREW, Button head (North American)	1	
-27	AN935-10	. WASHER	1	
-28	AN960-10L	. WASHER	1	
-29	102-52510-2	. KNOB ASSY, Rudder and aileron trim tab control	1	
-30	159-52527-9	. POINTER ASSY, Rudder trim tab cockpit indicator	1	
	159-52530	. . GEAR, Elev and rud trim tab cockpit indicator internal (altered from American Stock Gear No. BI48120)	1	
-31	G139	. GEAR (Boston Gear Works)	1	
-32	134-52576-5	. SHAFT, Rud trim tab position indicator (altered from Boston Gear Works No. GS47, Catalog 53, Page 12)	1	
-33	171-52510	. SHAFT ASSY, Rudder trim tab control cockpit (supersedes 159-52510 which may be used interchangeably until stock is exhausted)	1	
-34	AN3-4A	. BOLT	2	
-35	AN364-1032	. NUT	4	
-36	AN509-10R7	. SCREW	2	
-37	AN365-832	. NUT	2	
-38	AN515-8R7	. SCREW	2	
-39	159-52512	. SUPPORT ASSY, Aileron trim tab position indicator aft (on 159-52501 only)	1	
-40	159-52574	. DOUBLER, Trim tab control rear cockpit panel (on 159-52502 only)	1	
-41	AN500A8-10	. SCREW	1	
-42	159-52523	. WHEEL ASSY, Ail. and elev trim tab control	1	
-43	159-52536	. SHAFT, Ail. trim tab control fwd wheel (on 159-52501 only)	1	
-44	134-52546	. CLIP, Aileron and elevator trim tab control	1	
-45	159-52582	. POINTER ASSY, Aileron and elevator trim tab control	1	
-46	G139	. GEAR (Boston Gear Works)	1	
-47	159-52579	. GEAR ASSY, Aileron trim tab position indicator	1	
	G102	. . GEAR (Boston Gear Works)	1	
-48	159-52526	. PINION, Ail. trim tab position indicator sleeved fwd (altered from Boston Gear Works No. GS47)(on 159-52501 only)	1	
-49	159-52537	. SHAFT, Ail. trim tab control aft wheel (on 159-52502 only)	1	
-50	159-52578	. BASE ASSY, Aileron trim tab position indicator	1	
	134-52582	. . BEARING, Trim tab position indicator base	1	
-51	NAS220-10	. SCREW, Brazier head Phillips recess alloy steel 8-32	2	
-52	NAS220-7	. SCREW, Brazier head Phillips recess alloy steel 8-32	2	
-53	AN509-8R7	. SCREW	1	
-54	AN960D8L	. WASHER	5	
-55	AN365-832	. NUT	5	
-56	159-52585	. GUARD ASSY, Ail. trim tab position indicator (supersedes 159-52581)	1	
-57	AN515-6R3	. . SCREW	3	
-58	159-52583	. . COVER, Aileron trim tab position indicator	1	
-59	159-52507	. SUPPORT, Aileron trim tab position indicator	1	
-60	159-52503	. PANEL ASSEMBLY, Trim tab control	1	
-61	159-52513	. . BASE ASSEMBLY, Rudder trim tab position indicator	1	
	159-52515	. . . BUSHING, Rud and elev trim tab position indicator base.	1	
-62	2W1-24-22-5	. WASHER, Plain (North American)	4	
	2W1B24-22-20	. WASHER, Plain (North American)	AR	
-63	AN960D10L	. WASHER	8	

FUSELAGE SURFACE CONTROLS (Cont)

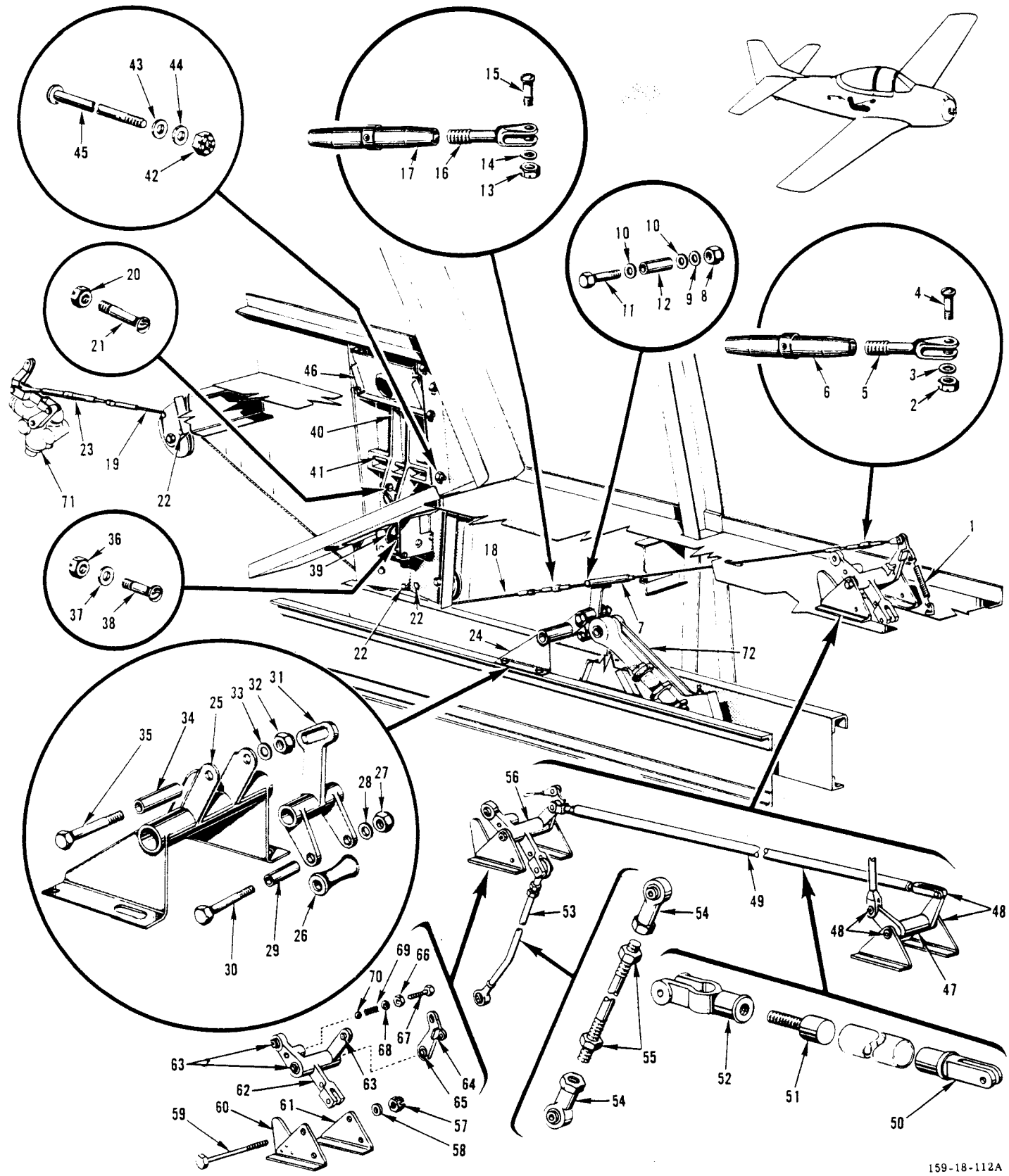


FIGURE 116 - FLAP BY-PASS AND UNLOCK CONTROL MECHANISM

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
116		FLAP BY-PASS AND UNLOCK CONTROL MECHANISM		
	159-18200	. MECHANISM INSTALLATION, Flap by-pass and unlock control. . . (see figure 50 for next assembly)	NP	

FUSELAGE SURFACE CONTROLS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
116-1	151-31849	SPRING, Cockpit canopy release mechanism.	1	
-2	AN320-3	NUT	1	
-3	AN960-10L	WASHER	1	
-4	AN23-10	BOLT	1	
-5	AN101-16RS	FORK	1	
-6	AN155-16S	BARREL	1	
-7	159-52603	CABLE ASSY, Flap by-pass cockpit handle position	1	
-8	AN365-1032	NUT	1	
-9	AN960D10	WASHER	1	
-10	AN960D10	WASHER	2	
-11	AN3-7A	BOLT	1	
-12	[illegible]	BUSHING, Spacer (North American)	1	
-13	AN320-3	NUT	1	
-14	AN960-10L	WASHER	1	
-15	AN3-11	BOLT	1	
-16	AN101-16S	FORK	1	
-17	AN155-16S	BARREL	1	
-18	159-52600	CABLE ASSEMBLY, Flap unlock control	1	
-19	159-52605	CABLE ASSEMBLY, Flap by-pass control	1	
-20	AN320-3	NUT	1	
-21	AN3-10	BOLT	1	
-22	AN970-4	PIN, pulley guard	1	
-23	AN155-16S	BARREL	1	
-24	159-18245	MECHANISM ASSEMBLY, Flap over center unlock	1	4-60
	159-18245-101	MECHANISM ASSEMBLY, Flap over center unlock	1	61-
-25	159-18238	BRACKET ASSEMBLY, Flap over center unlock support	1	4-60
	159-18240	BRACKET ASSEMBLY, Flap over center unlock support	1	61-
-26	159-18230	PULLEY, Flap over center lock manual release	1	
-27	AN365-1032	NUT	1	
-28	AN960D10	WASHER	1	
-29	[illegible]	BUSHING, Spacer (North American)	1	
-30	AN3-10A	BOLT	1	
-31	159-18231	CRANK ASSEMBLY, Flap over center unlock	1	
-32	AN320-3	NUT	1	
-33	AN960D416	WASHER	1	
-34	[illegible]	BUSHING, Spacer (North American)	1	
-35	AN3-10A	BOLT	1	
-36	AN320-3	NUT	1	
-37	AN960-10L	WASHER	1	
-38	AN3-8	BOLT	2	
-39	AN210-1A	PULLEY	2	
-40	159-18242	HANDLE ASSEMBLY, Flap by-pass and unlock control	1	
-41	[illegible]	BUSHING, Press fit flanged (North American)	2	
-42	AN320-4	NUT	1	
-43	AN960D416	WASHER	4	
-44	AN960D416L	WASHER	1	
-45	AN3-7	BOLT	1	
-46	17--18246	STOP ASSY, Flap by-pass handle & handle lock supersedes 159-182-6 which may be used interchangeably until stock is exhausted	1	
	17--18252	BUMPER, Flap by-pass handle	1	
	159-58017	HYDRAULIC EQUIP. INSTL, Fus sta 49.6 to sta 168 LH side (see fig. 62 for next assy & fig. 119, 120, 130, 131, 136, 137, 141, 142 for additional breakdown)	NP	
-47	159-58235	BELLCRANK ASSY, Hyd wing flap sel valve control fwd	1	
-48	AN001K3A	BEARING	4	
-49	159-43032	ROD ASSEMBLY, Engine control inter-cockpit	1	
-50	159-43033	CLEVIS, Engine control inter-cockpit rod	1	
-51	159-43034	FITTING, Engine control inter-cockpit rod	1	
-52	159-43035	CLEVIS, Engine control rod	1	
-53	159-58234	ROD ASSY, Hyd wing flap sel valve control quad. to valve	1	4-393
	17--58234	ROD ASSY, Hyd wing flap sel valve control quad. to valve	1	394-
-54	REE3M2	ROD END (Fafnir Bearing)	2	
-55	AN316-5R	NUT	2	
-56	159-58350	SUPPORT ASSY, Hyd wing flap control aft bellcrank & detent	1	4-393
	159-58350-10	SUPPORT ASSY, Hyd wing flap control aft bellcrank & detent	1	394-
-57	AN320-3	NUT	1	
-58	AN960-10	WASHER	1	
-59	83--0	BOLT	1	
	AN3-40	BOLT	1	
-60	159-58352	PLATE ASSY, Hyd wing flap control handle detent	1	4-393
	159-58352-3	PLATE ASSY, Hyd wing flap control handle detent	1	394-
-61	159-58237-3	SUPPORT, Hyd wing flap selector valve bellcrank	1	4-393
	17--58237	SUPPORT, Hyd wing flap selector valve bellcrank	1	394-
-62	159-58242	BELLCRANK ASSY, Hyd wing flap selector valve	1	4-393
	17--58242	BELLCRANK ASSY, Hyd wing flap sel valve control aft	1	394-
-63	AN001KF3A	BEARING	4	
-64	159-52604	ARM ASSEMBLY, Flap by-pass cockpit handle position	1	
-65	AN000K3L	BEARING	1	
-66	AN316-4R	NUT	1	
-67	83--4	BOLT, Adjustment 1/4-28 (North American)	1	
-68	AN960-4	WASHER	1	
-69	123-58164-3	SPRING, Hydraulic wing flap follow-up control handle	1	
-70	3omm	BALL, 5/16 Diameter (Strom Steel Ball Co.)	1	
-71	159-58062	PANEL ASSY, Hyd sys Fus sta 173.6-193.2 complete (see fig. 135)	Ref	
-72	159-18100	MECHANISM INSTL, Flap actuating (see figure 117)	Ref	

FUSELAGE SURFACE CONTROLS (Cont)

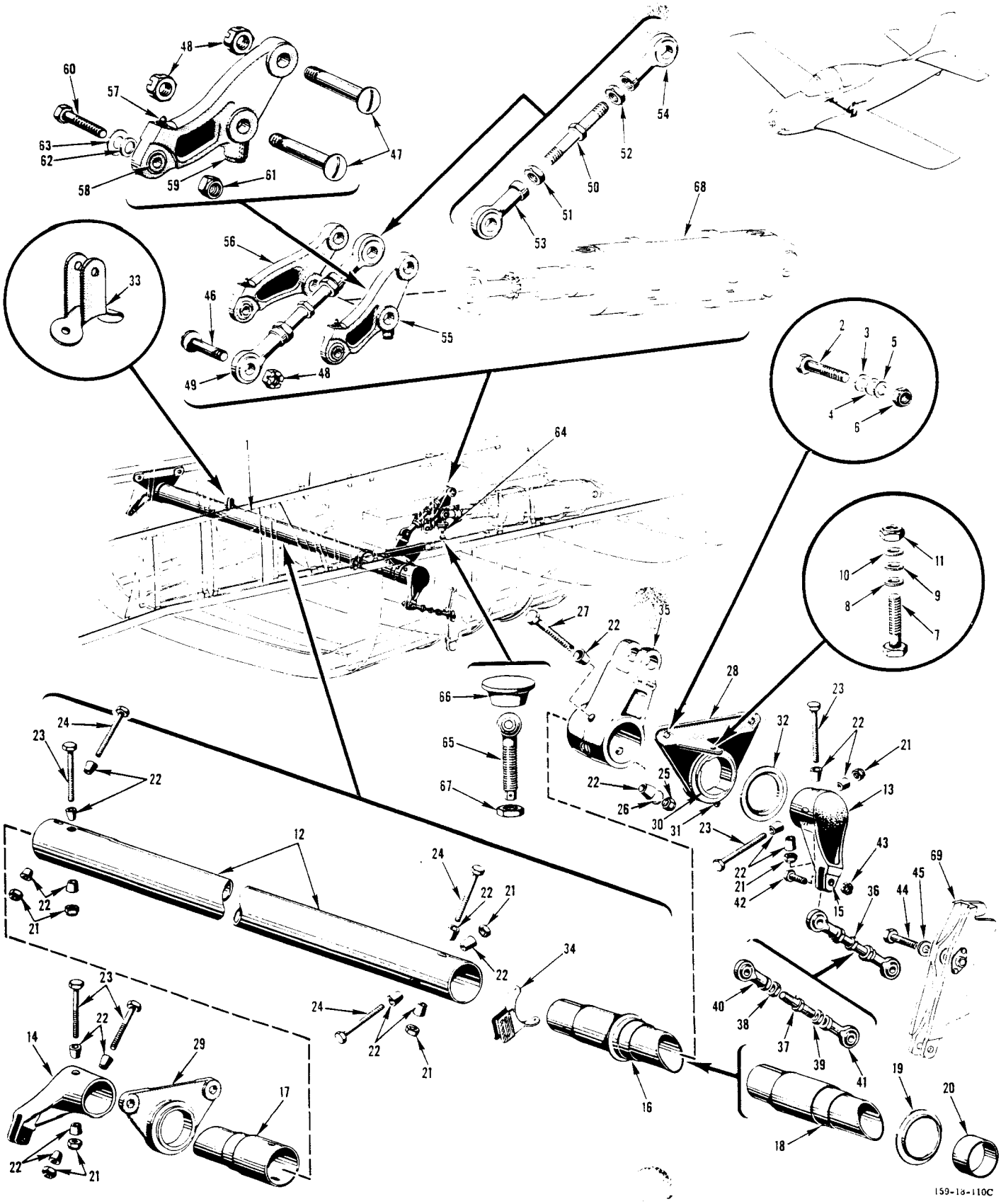


FIGURE 117 - FLAP ACTUATING MECHANISM

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
117	159-18100		MECHANISM INSTALLATION, Flap actuating (see figure 30 for next assembly)	NP	
-1	159-18050-11 *		. TUBE ASSEMBLY, Flap actuating torque	1	4-393
	159-18050-21		. TUBE ASSEMBLY, Flap actuating torque	1	394-
	ATTACHING PARTS				
-2	AN3-13A		. BOLT (Magnetic inspected)		
	AN3-11A		. BOLT (Magnetic inspected)		
-3	AN960-516		. WASHER		
-4	AN960-516L		. WASHER		
-5	AN960-516L4		. WASHER		
-6	AN365-524		. NUT		
-7	AN3-5A		. BOLT (Magnetic inspected)		
-8	AN960-10		. WASHER		
-9	AN960-10L		. WASHER		
-10	AN960D4L6L		. WASHER		
-11	AN365-428		. NUT		
	---+---				
	159-18181		. . TUBE, Flap actuating torque		
	159-18103-5		. . FITTING ASSEMBLY, Flap actuating LH		
	159-18103-6		. . FITTING ASSEMBLY, Flap actuating RH		
	AN509M7-7D6		. . SCREW, Press fit flanged (North American)		
	159-18055-3		. . TUBE END ASSEMBLY, Flap actuating torque LH		
	159-18055-4		. . TUBE END ASSEMBLY, Flap actuating torque RH		
	159-18054		. . . TUBE END, Flap actuating torque		
	159-18228-5		. . . WASHER, Flap actuating torque tube bearing retaining (LH only)		
-20	159-18121-3		. . . SLEEVE, Flap actuating torque tube LH		
	159-18121-4		. . . SLEEVE, Flap actuating torque tube RH		
	AN3H-11A		. . BOLT (Magnetic inspected)		
	AN960-7		. . WASHER, Tapered (North American)		
	AN3-30A		. . BOLT (Magnetic inspected)		
	AN3-7A		. . BOLT (Magnetic inspected)		
	AN316-4		. . NUT		
	AN960-10		. . WASHER		
	AN3-32		. . BOLT (Magnetic inspected)		
	159-18201-3		. . SHAFT ASSEMBLY, Flap torque shaft bearing LH		
	159-18201-6		. . SHAFT ASSEMBLY, Flap torque shaft bearing RH		
	159-18225		. . BEARING ASSEMBLY, Flap actuating torque tube		
	AN944-201		. . . BEARING		
	159-18228-3		. . WASHER, Flap actuating torque tube bearing retaining		
	159-54059		. . WIRE, Electrical flap position transmitter torque tube		
-34	159-58434		. ARM ASSEMBLY, Hydraulic flap selector valve control		--393
	159-58427		. ARM ASSY, Hyd flap selector valve control		394-
	159-58420		. . PLATE, Hyd flap sel valve arm assy adjusting		394-
-35	159-18204-3		. ARM, Flap actuating		
-36	159-18205		LINK ASSEMBLY, Flap actuating		
-37	159-18207		. LINK, Flap actuating		
-38	AN316-7L		. NUT		
-39	AN316-7R		. NUT		
-40	HFXL7G		. BEARING, Spherical rod end LH thread (Heim)		
-41	HFXR7G		. BEARING, Spherical rod end RH thread (Heim)		
-42	AN3-6A		. BOLT (Magnetic inspected)		
-43	AN316-7		. NUT		
-44	AN3-21A		. BOLT (Magnetic inspected)	2	
-45	AN960D716		. WASHER	2	
-46	AN3-26		. BOLT (Magnetic inspected)	1	
-47	AN3-40		. BOLT (Magnetic inspected)	2	
-48	AN316-10		. NUT	1	
-49	159-18208		LINK ASSEMBLY, Flap torque tube actuating	1	
-50	159-18209		. . LINK, Flap torque tube actuating	1	
-51	AN316-10L		. . NUT	1	
-52	AN316-10R		. . NUT	1	
-53	HFXL10G		. . BEARING, Spherical rod end LH thread (Heim)	1	
-54	HFXR10G		. . BEARING, Spherical rod end RH thread (Heim)	1	
-55	159-18212-5		BELLCRANK ASSEMBLY, Flap actuating over center LH	1	
-56	159-18212-6		BELLCRANK ASSEMBLY, Flap actuating over center RH	1	
	159-18212-3		. . BELLCRANK, Flap actuating over center LH	1	
	159-18212-4		. . BELLCRANK, Flap actuating over center RH	1	
-57	NAS2-101		. . FITTING, Lubrication	1	
-58	HSG7		. . BEARING, (Heim) (Haffco No. HSBG7 May be used)	1	
-59	1P7		. . PLUG, Control stop (North American)	1	
-60	159-18224		BOLT, High strength 7/16-20 special	2	
-61	AN365-720		NUT	2	
-62	AN960-716L		WASHER	2	
-63	SW1-28-36-62		WASHER, Plain (North American)	1	
-64	159-18129		STOP ASSEMBLY, Flap operating mechanism upper	1	
-65	159-18131		. SCREW, Flap operating mechanism upper stop	1	
-66	159-18130		. STOP, Flap operating mechanism upper	1	
-67	AN316-8R		NUT	1	
-68	159-58032		CYLINDER ASSY, Hyd wing flap operating (see figure 131)	Ref	
-69	159-18102		FITTING ASSY, Flap aft inboard hinge (see figure 24)	Ref	

* 159-18050, when T.O. 01-60FGA-22 is incorporated, is equiv to 159-18050-11. 159-18050-11 should be used for future procurement.

FUSELAGE SURFACE CONTROLS (Cont)

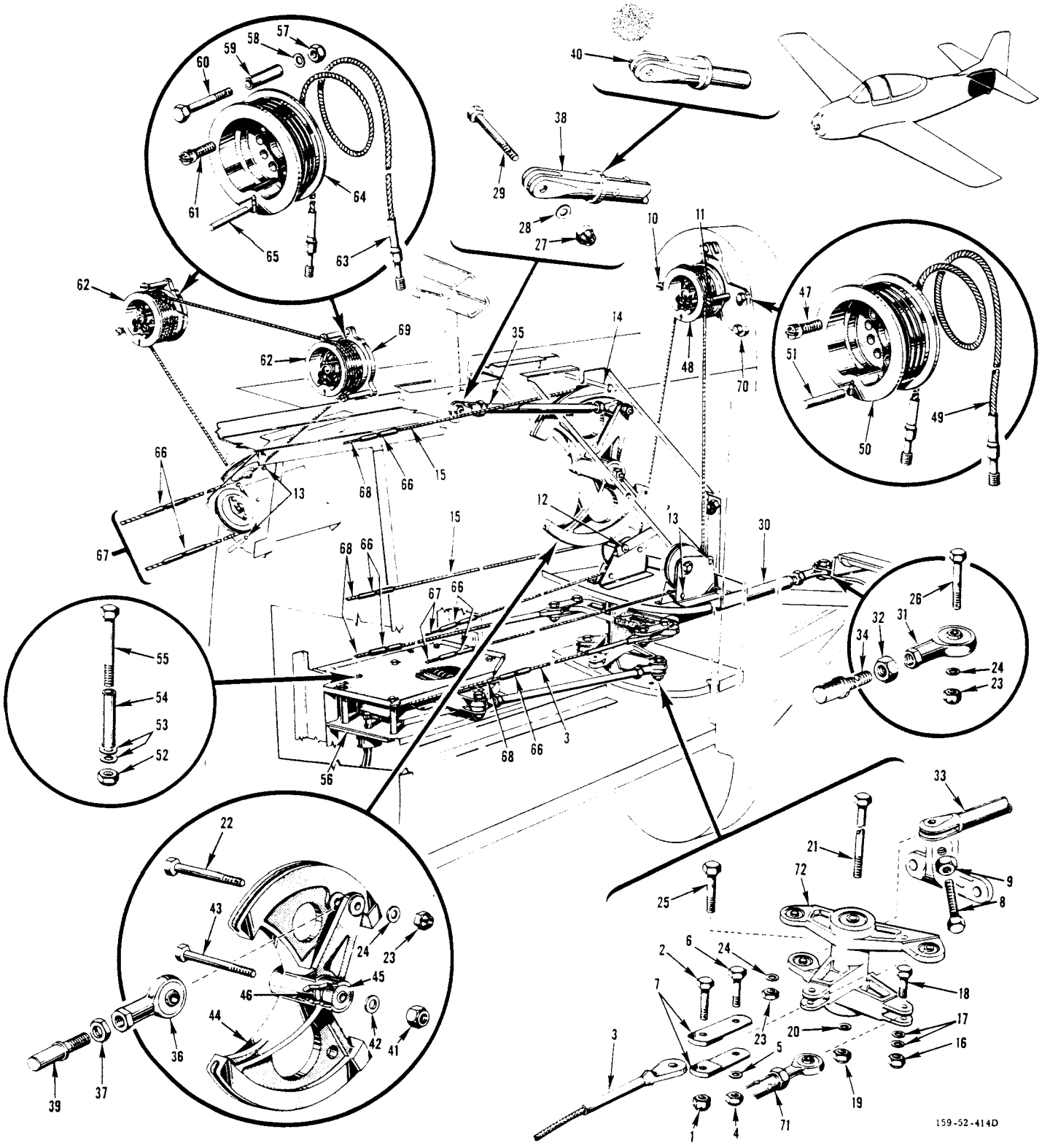


FIGURE 118 - AFT FUSELAGE SURFACE CONTROLS

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
118	159-52032	SURFACE CONTROLS INSTL, Aft Fus (see Fig. 55 for next assy) . .	NP	
	No Number	. RUDDER CONTROL BELLCRANK AND BUNGEE ASSEMBLIES . . . . . (see figure 114 for detail breakdown)	NP	
-1	AN310-4	. NUT.	2	
-2	AN4-10	. BOLT	2	

FUSELAGE SURFACE CONTROLS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
118-3	159-52427	.	CABLE ASSEMBLY, Rudder control aft	2	
-4	AN365-428	.	NUT	2	
-5	AN960D416	.	WASHER	2	
-6	AN4-10A	.	BOLT (Magnetic Inspected	2	
-7	159-52473	.	STRAP, Rudder control cable to bellcrank	4	
-8	5B2-11	.	BOLT, Adjustment (North American) (magnetic inspected)	2	4-545
-9	AN316-5R	.	NUT	2	4-545
-10	NAS427T34	.	PIN, Pulley guard	1	
-11	NAS427T32	.	PIN, Pulley guard	1	
-12	NAS427T42	.	PIN, Pulley guard	3	
-13	NAS427T3	.	PIN, Pulley guard	1	
-14	AN525-10-18	.	SCREW	1	
	AN365-1032	.	NUT	1	
-15	159-52217	.	CABLE ASSEMBLY, Elevator control aft	2	
-16	AN365-1032	.	NUT	2	
-17	AN960-10	.	WASHER	2	
-18	AN3-11A	.	BOLT	1	
-19	AN365-524	.	NUT	1	
-20	AN960D516L	.	WASHER	1	
-21	AN5-42A	.	BOLT (Magnetic Inspected	1	
-22	AN24-30	.	BOLT (Magnetic Inspected	1	
-23	AN310-4	.	NUT	2	
-24	AN960D416	.	WASHER	2	
-25	AN4-12	.	BOLT (Magnetic Inspected	1	
-26	AN4-14	.	BOLT (Magnetic Inspected	1	
-27	AN320--	.	NUT	2	
-28	AN960D416	.	WASHER	2	
-29	AN24-13	.	BOLT	1	
-30	159-52412	.	TUBE ASSEMBLY, Rudder control to surface connecting	1	4-545
	159-52498	.	TUBE ASSEMBLY, Rudder control to surface connecting	1	546-
-31	RE4F5	. .	BEARING (Fafnir Bearing)	1	4-545
	FR4	. .	BEARING (Shafer Bearing)	1	546-
-32	AN316-5R	. .	NUT	1	4-545
	AN316-6R	. .	NUT	1	546-
	159-52412-5	. .	TUBE SUB-ASSY, Rudder control to surface connecting	1	4-545
	159-52498-5	. .	TUBE SUB-ASSY, Rudder control to surface connecting	1	546-
-33	159-52219-5	. . .	CLEVIS, Elevator control tube	1	
-34	159-52220-5	. . .	TUBE END, Elevator control threaded	1	4-545
	1R10-10-065-624	. . .	REVETTING ROD END, Threaded (North American)	1	546-
-35	159-52251	.	TUBE ASSY, Elevator control sector to elevator horn	1	
-36	RE4F5	. .	BEARING (Fafnir Bearing)	1	
-37	AN316-5R	. .	NUT	1	
-38	159-52251-5	. .	TUBE SUB-ASSY, Control cable sector to elevator horn	1	
-39	159-52220-3	. . .	TUBE END, Elevator control threaded	1	
-40	159-52219-3	. . .	CLEVIS, Elevator control tube	1	
-41	AN365-428	.	NUT	1	
-42	AN960D416	.	WASHER	1	
-43	AN4-32A	.	BOLT (Magnetic Inspected	1	
-44	159-52201	.	SECTOR ASSEMBLY, Elevator control cable aft	1	
-45	AN200K4	. .	BEARING	2	
-46	4S7-5-1.657	. .	SPACER, Flanged dual bearing (North American)	1	
-47	AN502-10-8	.	BOLT	3	
-48	159-52562	.	DRUM ASSY, Rudder trim control aft cable complete	1	
-49	159-52533	. .	CABLE ASSEMBLY, Rudder trim tab control aft	1	
-50	3D1	. .	DRUM, Cable (North American) (supersedes 102-52509)	1	
-51	2P5-6	. .	PIN, Locking (North American)	1	
-52	AN365-1032	.	NUT	4	
-53	AN960-10	.	WASHER	8	
-54	4S3D10-48	.	SPACER, Bolt (North American)	4	
-55	AN3-22A	.	BOLT	4	
-56	159-34225-10 *	.	MECHANISM ASSEMBLY, Auxiliary alighting gear steering cam (see figure 219 for detail breakdown)	1	
-57	AN365-1032	.	NUT	4	
-58	AN960D10	.	WASHER	4	
-59	4S3-10-44	.	SPACER, Bolt (North American)	4	
-60	AN3-17	.	BOLT	4	
-61	AN502-10-8	.	BOLT	6	
-62	159-52561	.	DRUM ASSEMBLY, Elevator trim control aft	2	
-63	159-52531	. .	CABLE ASSEMBLY, Elevator trim tab control aft	1	
-64	3D1	. .	DRUM, Cable (North American) (supersedes 102-52509)	2	
-65	2P5-6	. .	PIN, Locking (North American)	2	
-66	AN155-32L		BARREL (See 159-31001 on figure 49)	Ref	
-67	See 159-52570 for these Cable Assemblies on figure 168)			Ref	
-68	See 159-52031 for these Cable Assemblies on figure 106)			Ref	
-69	159-22509		BEARING ASSEMBLY, Elevator trim tab drum (see figure 47)	Ref	
-70	159-24507		FITTING ASSY, Rudder trim tab drum support (see figure 48)	Ref	
-71	159-34230		ROD ASSEMBLY, Steering cam actuating (see figure 218)	Ref	
-72	159-52478		BELLCRANK ASSEMBLY, Rudder control and auxiliary alighting gear steering (see figure 114)	Ref	

* 159-34225, when T.O. 01-60FGA-22 is incorporated, is equiv to 159-34225-10. 159-34225-10 should be used for future procurement.

AN 01-60FGA-4

FUSELAGE HYDRAULICS

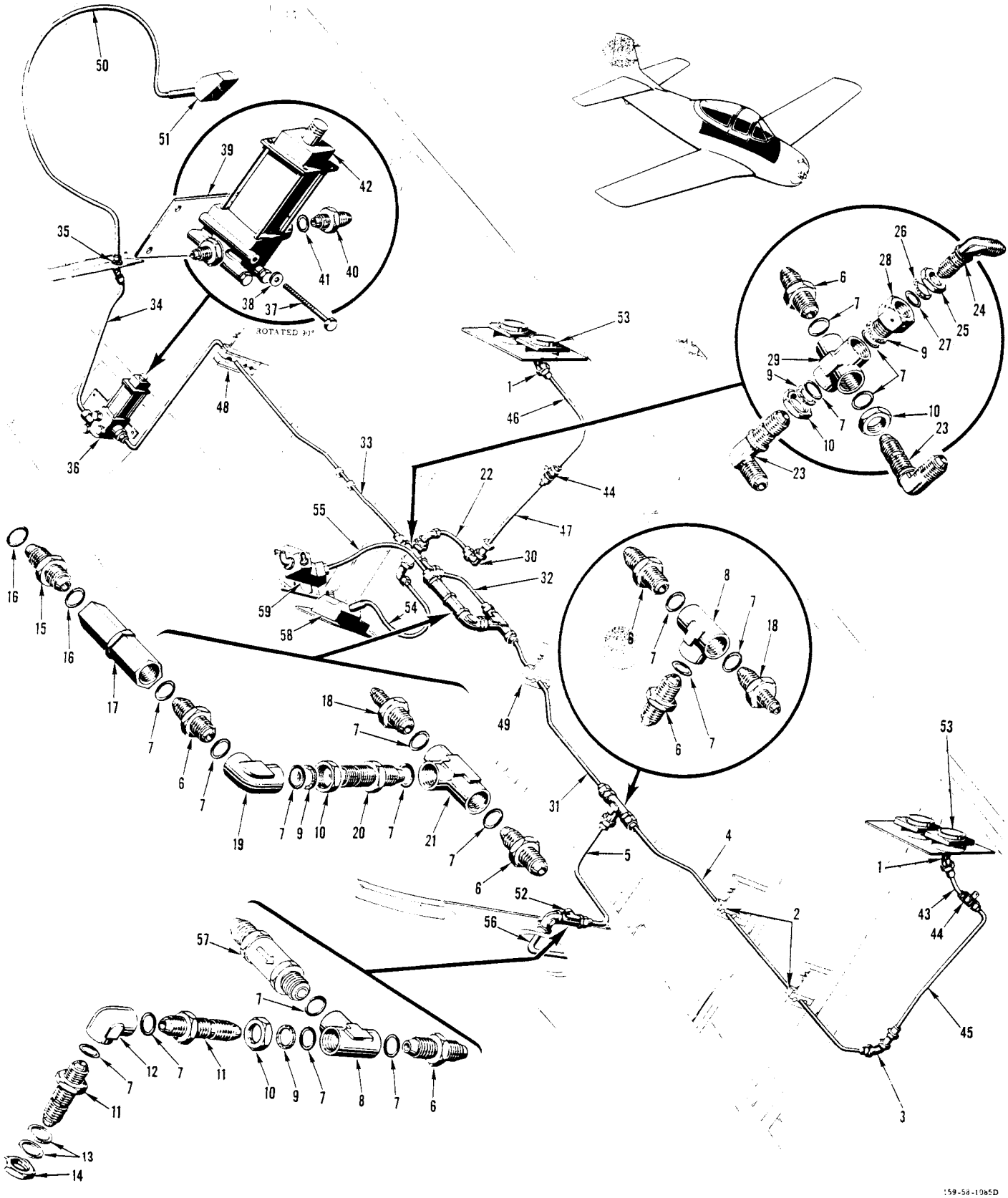


FIGURE 119 - FUSELAGE HYDRAULIC POWER SUPPLY EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
119	159-58017	FUSELAGE HYDRAULIC POWER SUPPLY EQUIPMENT . HYDRAULIC EQUIPMENT INSTL, Fuselage station 40.5 to sta . . . 168 LH side (see figure 62 for next assembly)	NP	

FUSELAGE HYDRAULICS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
119-1	AN837-4D								ELBOW	2	
	AN6289D4								NUT	2	
	AN6290-4								GASKET	2	
	AN6291-4								RING	2	
-2	159-58112								SUPPORT ASSY, Hyd LH fus sta 78 3/8 to 87 7/8 lines	2	
-3	AN837-4D								ELBOW	1	
	AN924-4D								NUT	1	
	AN960D716								WASHER	1	
--	159-58817-63								LINE ASSEMBLY, Hydraulic fuselage station 93 pressure tee reducer to fuselage sta 70 elbow system pressure	1	
-5	159-58817-43								LINE ASSY, Hyd fus sta 94 elbow to fus sta 98 tee press	1	
-6	AN815-6D								UNION	1	
-7	AN6290-6								GASKET	18	
-8	AN926-6D								TEE	2	
-9	AN6291-6								RING	4	
-10	AN6289D6								NUT	4	
-11	AN832-6D								UNION	2	
-12	AN927-6D								ELBOW	1	
-13	AN960D916								WASHER	2	
-14	AN924-6D								NUT	1	
-15	AN815-4D								UNION	1	
-16	AN6290-4								GASKET	2	
-17	159-58045-15								VALVE ASSY, Hyd two-way restricter (for a list of detail parts refer to AN 03-30CX4)(supersedes 151-58015-19)	1	
-18	AN919-6D								REDUCER	1	
-19	AN927-6D								ELBOW	1	
-20	AN832-6D								UNION	1	
-21	AN926-6D								TEE	1	
-22	159-58817-45								LINE ASSY, Hyd fus sta 125 cross to fus sta 124 elbow on floor pressure	1	
-23	AN833-6D								ELBOW	2	
-24	AN833-4D								ELBOW	1	
-25	AN6289D4								NUT	1	
-26	AN6291-4								RING	1	
-27	AN6290-4								GASKET	1	
-28	AN930-8D								BUSHING	1	
-29	AN925-6D								CROSS	1	
-30	AN833-4D								ELBOW	1	
	AN924-4D								NUT	1	
	AN960D716								WASHER	1	
-31	159-58810-61								LINE ASSY, Hyd fus sta 98 tee to sta 118 tee pressure	1	
-32	159-58817-31								LINE ASSY, Hydraulic fuselage sta 125 pressure cross elbow to fuselage station 118 tee pressure	1	
-33	159-58817-51								LINE ASSY, Hydraulic fuselage sta 125 cross to fuselage sta 162 canted angle 90° bulkhead elbow	1	
-34	159-58810-41								LINE ASSY, Hydraulic system pressure elbow to emergency canopy solenoid shut-off valve	1	
-35	AN837-6D								ELBOW	1	
	AN924-6D								NUT	1	
	AN960D916								WASHER	1	
-36	159-58068								VALVE ASSY, Hydraulic canopy complete emer shut-off	1	
-37	AN3-23A								BOLT	3	
-38	AN960D10L								WASHER	3	
-39	159-58411								SUPPORT ASSY, Hyd canopy complete emer shut-off valve	1	
--0	AN919-12								REDUCER	2	
--1	AN6290-8								GASKET	2	
--2	20985								VALVE ASSY, Solenoid by-pass 1500 PSI (Adel Precision). (Whittaker No. 103801 may be sub)	1	
--3	159-58810-67								LINE ASSY, Hyd press. fwd cockpit press. gage to pressure snubber	1	
---	11D								SNUBBER, Pressure gage (Operating and Maintenance Specialties)	2	
--5	159-58810-69								LINE ASSY, Press. snubber to fus sta 70 elbow press	1	
--6	159-58810-63								LINE ASSY, Hyd press. rear cockpit pressure gage to pressure snubber	1	
--7	159-58810-65								LINE ASSY, Press. snubber to fus sta 124 elbow pressure	1	
--8	159-58110								SUPPORT ASSY, Hydraulic LH fus sta 146 1/2 lines	1	
--9	159-58111								SUPPORT ASSY, Hydraulic LH fus sta 113 lines	1	4-268
	159-58019								HYDRAULIC EQUIPMENT INSTL, Fus mating station -9.5 to 238 7/8 (see fig. 50 for next assy & fig. 120, 131, 134 and 136 for additional breakdown)	NP	
-50	159-58810-37								LINE ASSY, Hydraulic fus sta 162 canted angle bulkhead elbow to fuselage station 161 check valve pressure	1	
-51	159-58045								VALVE ASSY, Hyd canopy complete control (see figure 78)	Ref	
-52	No Number								For continuation of brake pressure system see fig. 141	Ref	
-53	AN5771T4B								GAGE, 1 7/8 Dial pressure (see figure 104)	Ref	
-54	159-58817-47								LINE ASSEMBLY, Hyd fuselage station 125 cross to landing gear valve bulkhead pressure (figure 38)	Ref	
-55	159-58817-49								LINE ASSEMBLY, Hydraulic fuselage sta 125 check valve to wing flap valve reducer pressure (figure 39)	Ref	
-56	159-58808-55								LINE ASSEMBLY, System pressure from tee sta 86 to elbow sta 93 3/4 (figure 121)	Ref	
-57	AN6207-6								VALVE, 1500 PSI Hydraulic check (figure 141)	Ref	
-58	159-58048								VALVE ASSY, Hydraulic LG complete control (figure 39)	Ref	
-59	159-58046								VALVE ASSY, Hydraulic wing flap complete control (figure 39)	Ref	

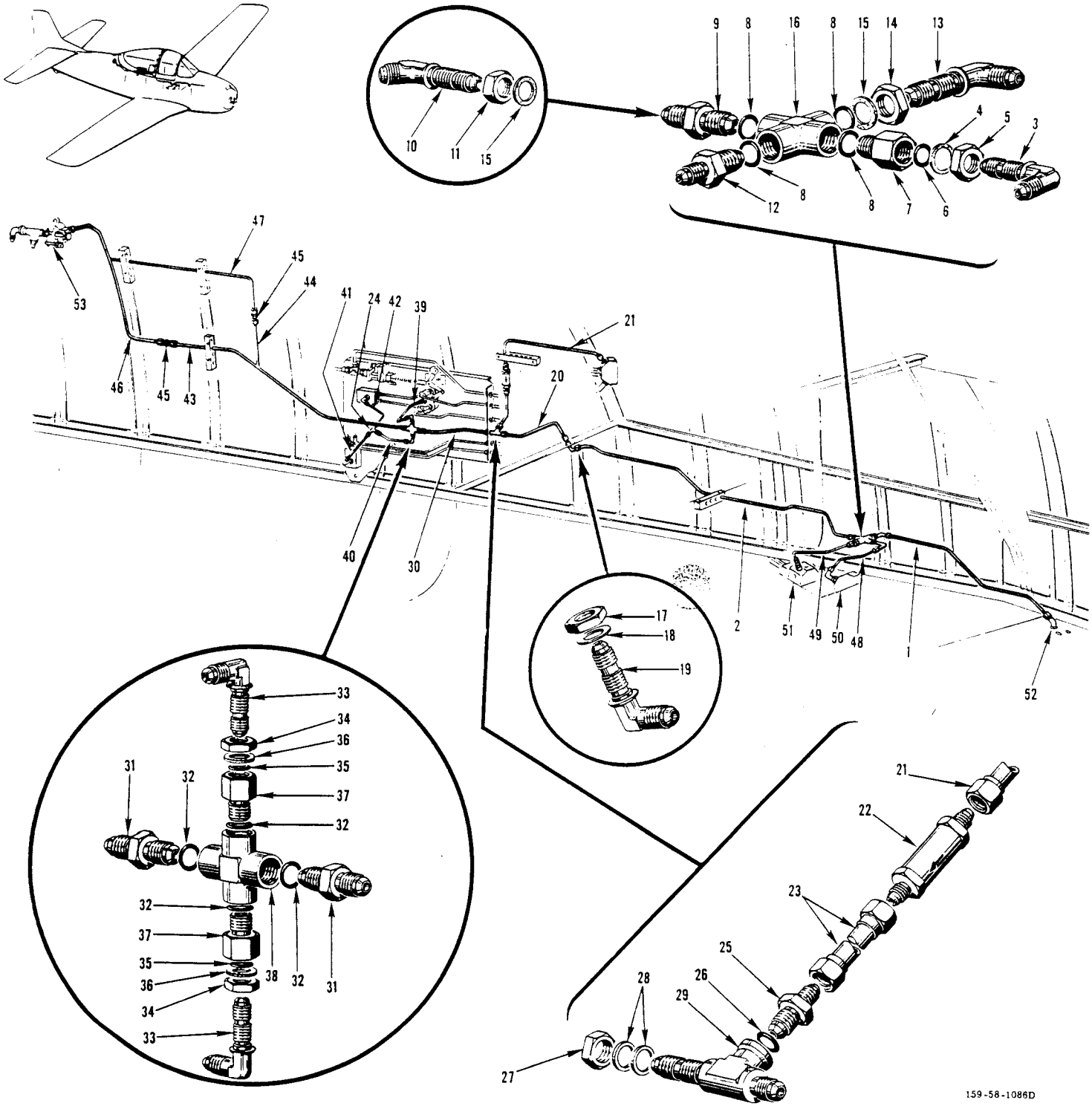


FIGURE 120 - FUSELAGE HYDRAULIC SYSTEM RETURN EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
120		FUSELAGE HYDRAULIC SYSTEM RETURN EQUIPMENT		
	159-58017	. HYDRAULIC EQUIPMENT INSTL, Fus sta +9.5 to sta 108 LH side (see figure 60 for next assy & fig. 118,119,130,131, 136,137,141, and 142 for additional breakdown) .	NP	
-1	159-58817-33	. . LINE ASSY, Hydraulic fuselage sta 120 cross to fuselage sta 45 bulkhead elbow return .	1	
-2	159-58817-25	. . LINE ASSY, Hydraulic fuselage sta 181 pannel angle 90° bulkhead elbow to fuselage sta 117 union return .	1	4-25
	159-58810-81	. . LINE ASSY, Hydraulic fuselage sta 45 pannel angle 90° bulkhead elbow to fuselage station 117 45° elbow return .	1	26-
-3	AN833-6D	. . ELBOW .	1	
-4	AN6281-6	. . RING .	1	
-5	AN6289D6	. . NUT .	1	
-6	AN6290-6	. . GASKET .	1	
-7	AN931-10D	. . BUSHING .	1	
-8	AN6290-8	. . GASKET .	1	
-9	AN814-8D	. . UNION .	1	4-25
-10	AN817-8D	. . ELBOW .	1	26-
-11	AN6289D8	. . NUT .	1	261-
-12	AN924-10D8	. . REDUCER .	1	
-13	AN833-8D	. . ELBOW .	1	
-14	AN6289D8	. . NUT .	1	
-15	AN6281-8	. . RING .	1	
-16	AN929-6D6	. . CROSS .	1	
-17	AN924-8D	. . NUT .	1	
-18	AN960D816L	. . WASHER .	1	
-19	AN833-8D	. . ELBOW .	1	
	159-58019	. HYDRAULIC EQUIPMENT INSTL, Fus station sta +9.5 to sta 7/8 tee (see fig. 60 for next assy & fig. 118, 131, 136 and 142 for additional breakdown) .	NP	
-20	159-58817-27	. . LINE ASSY, Hydraulic fuselage sta 178 tee to fuselage sta 181 bulkhead elbow return .	1	
-21	159-58811-35	. . LINE ASSY, Fuselage sta 178 shroud valve to fuselage sta 181 canopy selector valve return .	1	
-22	AN6287-6	. . VALVE, 1500 PSI Hydraulic shroud .	1	
-23	159-58811-37	. . LINE ASSY, Fuselage sta 178 bulkhead tee to fuselage sta 178 shroud valve .	1	
	No Number	. HYDRAULIC PANEL RETURN EQUIPMENT (see figure 136 for next assembly) .	NP	
-24	AN833-+D	. . TEE .	1	
	159-58011	. HYDRAULIC EQUIPMENT INSTL, Fus sta 108 to sta 235 3/8 (see fig. 60 for next assembly & fig. 118, 136 and 136 for additional breakdown) .	NP	
-25	AN919-10D	. . REDUCER .	1	
-26	AN6290-8	. . GASKET .	1	
-27	AN924-8D	. . NUT .	1	
-28	EWLAL-6-30-64	. . WASHER, Plain (North American) .	1	
-29	AN833D8	. . TEE .	1	
-30	159-58811-25	. . LINE ASSY, Hydraulic system return from cross sta 184 to union in forward edge of panel .	1	
-31	AN815-8D	. . UNION .	1	
-32	AN6290-8	. . GASKET .	1	
-33	AN833-+D	. . ELBOW .	1	
-34	AN6289D4	. . NUT .	1	
-35	AN6290-+	. . GASKET .	1	
-36	AN6291-+	. . RING .	1	
-37	AN931-8D	. . BUSHING .	1	
-38	AN929-8D	. . CROSS .	1	
-39	159-58811-17	. . LINE ASSY, Hydraulic system return from flap by-pass valve to cross sta 184 .	1	
-40	159-58811-+7	. . LINE ASSY, Hydraulic system return from elbow to cross to edge .	1	
-41	159-58811-21	. . LINE ASSY, Hydraulic system return from canopy thermal relief valve to cross sta 184 .	1	
-42	159-58811-19	. . LINE ASSY, Hydraulic system return from flap thermal relief valve to cross sta 184 .	1	
-43	159-58811-23	. . LINE ASSY, Hydraulic system return from union sta 213 to union sta 199 .	1	-268
-44	171-58811-5	. . LINE ASSY, Hydraulic return union sta 209 LH to female cross on panel .	1	263-
-45	AN815-8D	. . UNION .	1	-267
-46	159-58811-+3	. . LINE ASSY, Hydraulic system return from 90° elbow on top of by-pass valve to union sta 213 .	1	-267
-47	171-58811-11	. . LINE ASSY, Hydraulic return by-pass valve sta 219 to union sta 209 LH .	1	263-
-48	159-58817-79	LINE ASSY, Hydraulic fuselage sta 126 landing gear valve to fuselage sta 126 cross return (see figure 39)	Ref	
-49	159-58817-29	LINE ASSY, Hydraulic fuselage sta 126 cross to fuselage sta 131 wing flap selector valve union return (see figure 39)	Ref	
-50	159-58046	VALVE ASSY, Hyd landing gear complete control (see figure 39) .	Ref	
-51	159-58046	VALVE ASSY, Hyd wing flap complete control (see figure 39) . .	Ref	
-52	For continuation of this line see figure 121		Ref	
-53	For continuation of this equipment see figure 13-		Ref	

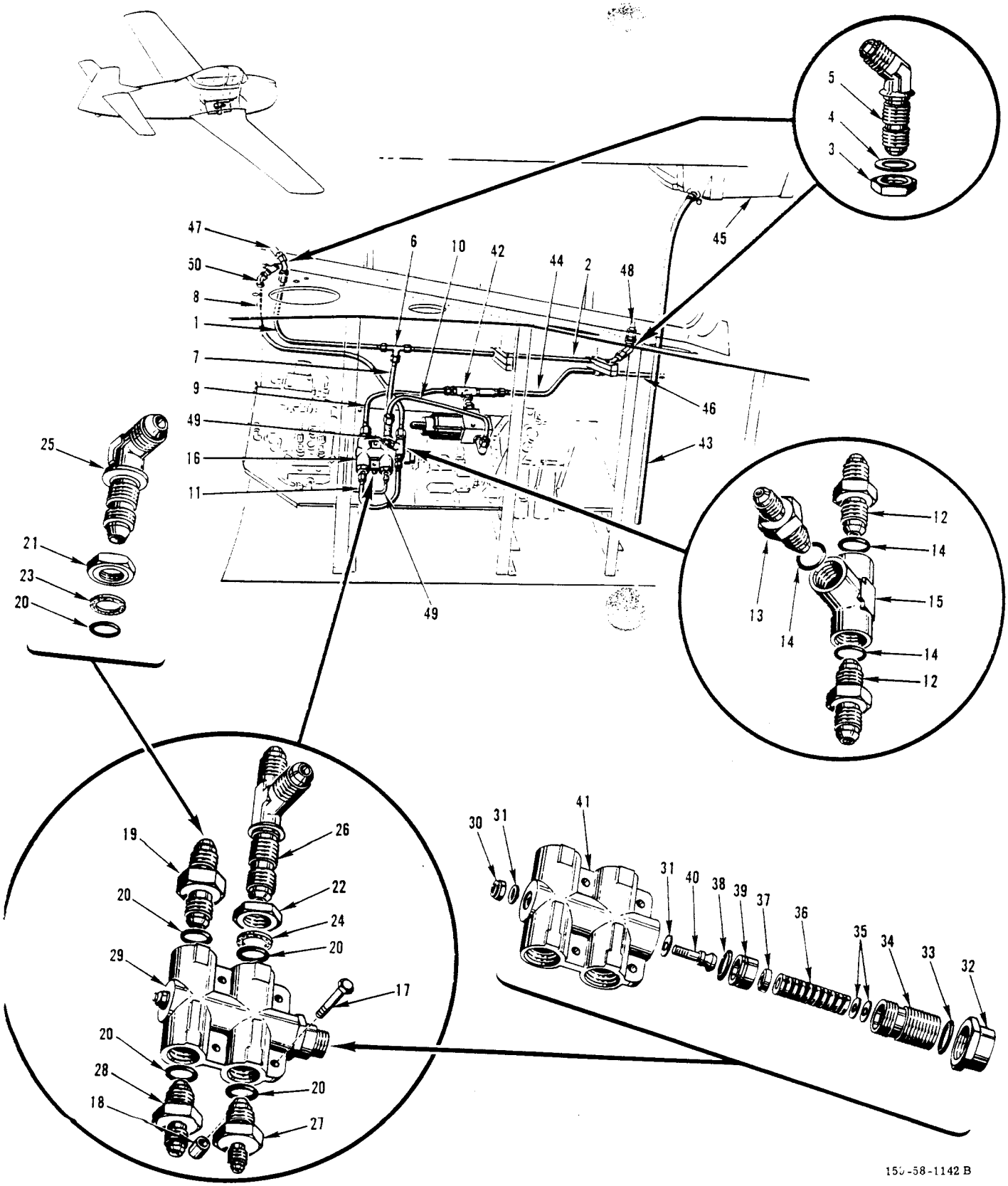


FIGURE 121 - HYDRAULIC POWER AND RETURN SYSTEM LEFT FUSELAGE LOWER

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
121		HYDRAULIC POWER AND RETURN SYSTEM LEFT FUSELAGE LOWER		
	159-58008	. HYDRAULIC EQUIPMENT INSTL, LH lower fuselage sta 49 1/2 . . . to station 87.5 (see figure 62 for next assembly)	NP	4-140
-1	159-58808-21	. . LINE ASSEMBLY, Hydraulic system return from elbow . . . . station 34.5 to tee station 35 3/8	1	4-140
-2	159-58808-25	. . LINE ASSEMBLY, Hydraulic system return from tee . . . . . station 35 3/8 to elbow station 57 5/8	1	4-140
-3	AN924-8D	. . NUT	2	4-140
-4	AN960D1216	. . WASHER	3	4-140
-5	AN837-8D	. . ELBOW	2	4-140
-6	AN824-8D	. . TEE	1	4-140
-7	159-58808-23	. . LINE ASSY, Hyd return from relief valve to tee sta 35 3/8.	1	4-140
-8	159-58808-55	. . LINE ASSY, Sys press. from tee sta 36 to elbow sta 33 3/4.	1	4-140
	159-58059	. . PANEL ASSEMBLY, Hydraulic LH lower fuselage sta 68.75 to . 87.5 equipment (see figures 125, 139 and 140 for additional breakdown)	Ref	21-140
	159-58059-3	. . PANEL ASSEMBLY, Hydraulic LH lower fuselage sta 68.75 to . 87.5 equipment (see figures 125, 139 and 140 for additional breakdown	Ref	4-140
	159-58059-5	. . PANEL ASSEMBLY, Hydraulic LH lower fuselage sta 68.75 to . 87.5 equipment (see figures 125, 139 and 140 for additional breakdown	Ref	11-140
-9	159-58808-13	. . . LINE ASSEMBLY, Hydraulic system pressure from tee on . system de-pressurizing valve to relief valve	1	4-140
-10	159-58808-15	. . . LINE ASSEMBLY, Hydraulic system return from relief . . valve to elbow on system de-pressurizing valve	1	4-140
-11	159-58808-11	. . . LINE ASSY, Hyd sys press. from relief valve to tee . .	1	4-140
-12	AN815-6D	. . . UNION	2	4-140
-13	AN819-6D	. . . REDUCER	1	4-140
-14	AN6291-6	. . . GASKET	2	4-140
-15	AN826-6D	. . . TEE	1	4-140
-16	159-58042	. . . VALVE ASSEMBLY, Hydraulic system complete relief . . .	1	4-140
	159-58042-3	. . . VALVE ASSEMBLY, Hydraulic system complete relief . . . see figure 122 for next assembly	1	141-
	ATTACHING PARTS			
-17	AN3-11A	. . . BOLT	1	4-140
	AN3-12A	. . . BOLT	1	141-
-18	MS21042-21	. . . SPACER, Bolt (North American	1	4-140
	MAS-3DD3-42	. . . SPACER, Bolt	1	141-
	---*---			
-19	AN815-8D	. . . . UNION	1	4-140
-20	AN6290-8	. . . . GASKET	1	
-21	AN6289D8	. . . . NUT	1	141-
-22	AN6289D8	. . . . NUT	1	
-23	AN6291-8	. . . . RING	1	141-
-24	AN6291-8	. . . . RING	1	
-25	AN833-8D	. . . . ELBOW	1	141-
-26	AN804D8	. . . . TEE	1	
-27	AN919-10D	. . . . REDUCER	1	
-28	AN919-12D	. . . . REDUCER	1	
-29	21300	. . . . VALVE ASSEMBLY, Relief type AN6200-8AB (Adel) . . .	1	
-30	AN365-428	. . . . . NUT	1	
-31	304-E437-255-062	. . . . . WASHER (Adel Precision)	2	
-32	13225	. . . . . NUT, Relief valve type AN6200 check (Adel) . . .	1	
-33	AN6227-17	. . . . . PACKING	1	
-34	13223	. . . . . SCREW, Relief valve type AN6200 adjusting (Adel).	1	
-35	AN960-516L	. . . . . WASHER	2	
-36	9324	. . . . . SPRING, Relief valve type AN6200 (Adel Precision)	1	
-37	21376	. . . . . GUIDE, Spring (Adel Precision)	1	
-38	AN6227-12	. . . . . PACKING	1	
-39	12341	. . . . . PISTON, Relief valve type A8 (Adel Precision) . .	1	
-40	9325	. . . . . SEAT ASSEMBLY, Relief valve type A8 (Adel) . . .	1	
-41	21302	. . . . . BODY, Relief valve type AN6200-8AB (Adel)	1	
-42	159-58054	. . . VALVE ASSEMBLY, Hydraulic system complete solenoid . . by-pass (see figure 123 for detail breakdown and attaching parts)	1	4-140
	159-58014	. HYDRAULIC EQUIPMENT INSTL, Fuselage station 49.5 firewall . . (see figure 62 for next assembly)	NP	4-140
-43	3H2-8-104	. . HOSE (North American)	1	11-140
	AN737-30	. . CLAMP	1	11-140
-44	159-58814-17	. . LINE ASSEMBLY, Hydraulic bulkhead elbow sta 49.5 to . . . de-pressurization valve sta 76 system pressure	1	4-140
-45	159-52407	SUPPORT ASSEMBLY, Rudder pedal and adjusting mechanism	Ref	
-46	For continuation of this line see figure 249		Ref	
-47	For continuation of this line see figure 120		Ref	
-48	For continuation of this line see figure 142		Ref	
-49	For continuation of this line see figure 125		Ref	
-50	For continuation of this line see figure 119		Ref	

FUSELAGE HYDRAULICS (Cont)

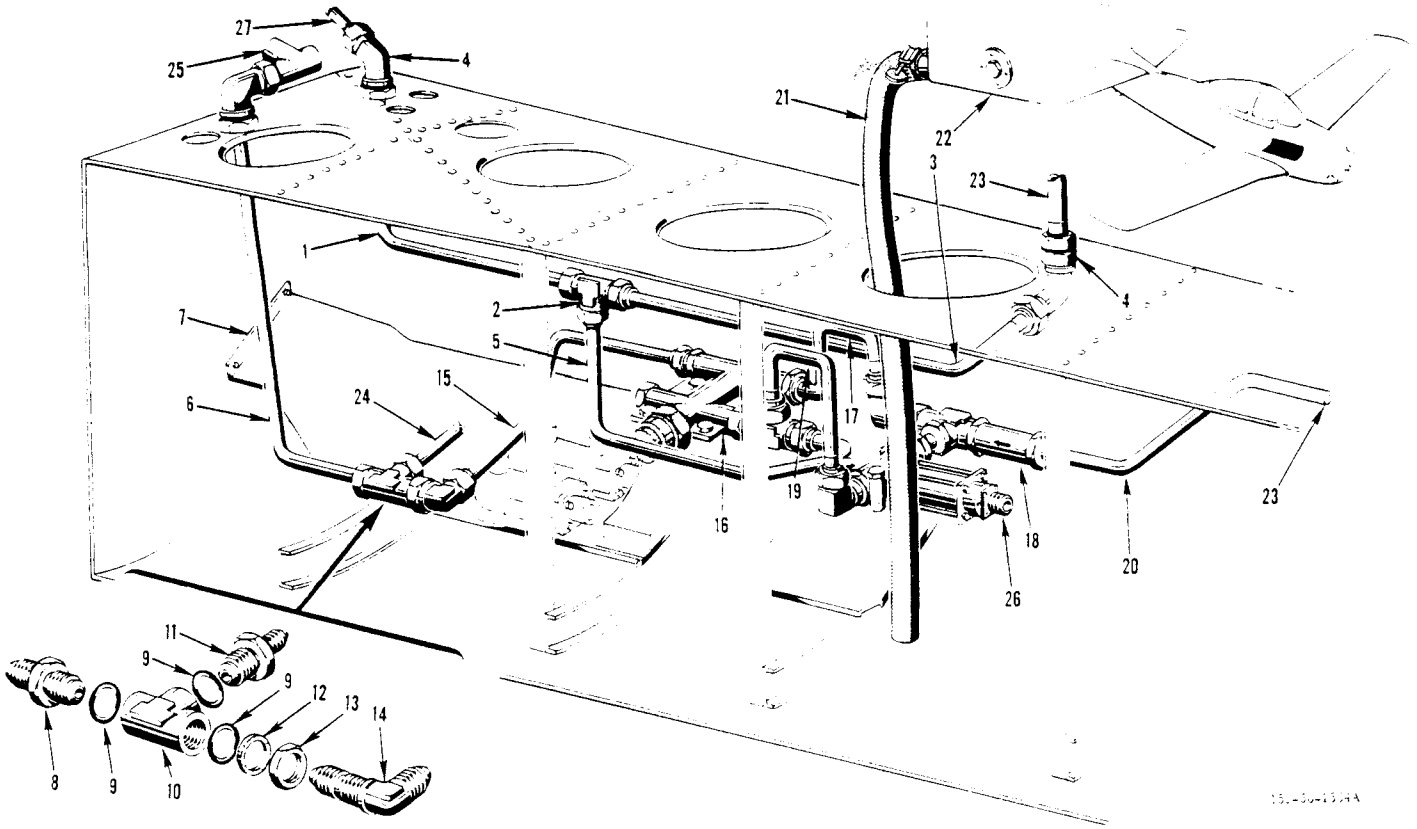


FIGURE 122 - HYDRAULIC POWER AND RETURN SYSTEM LEFT FUSELAGE LOWER (AIRPLANES MODEL 141-

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
122		HYD POWER & RETURN SYS LEFT FUS LOWER (Airplanes Model 141-		
	159-58069	. HYDRAULIC EQUIPMENT INSTALLATION, LH lower fuselage sta . . . +9 1/2 to FS 1.2 (see figure 62 for next assembly	NP	141-
-1	159-58816-31	. . LINE ASSY, Sys return elbow sta 54.5 to tee sta 65 1/8 . .	1	141-
-2	AN824-6D	. . TEE	1	141-
-3	159-58808-25	. . LINE ASSY, Sys return tee sta 65 1/8 to elbow sta 87 5/8 .	1	141-
-4	AN837-6D	. . ELBOW	2	141-
	AN924-6D	. . NUT	2	141-
	AN960D1216	. . WASHER	2	141-
-5	159-58816-33	. . LINE ASSY, Return from relief valve to tee in sys return .	1	141-
-6	159-58816-39	. . LINE ASSY, System pressure tee to 45° elbow at sta 95 . .	1	141-
-7	159-58069	. . PANEL ASSEMBLY, Hydraulic LH lower fuselage sta 68.75 to . 97.5 equipment (see figure 126 and 129	Ref	141-396
	159-58069-19	. . PANEL ASSY, Hyd LH lower fus sta 68.75 to 97.5 equip. . . (see figure 126 and 129	Ref	397-523, 575-587
	159-58069-29	. . PANEL ASSY, Hyd LH lower fus sta 68.75 to 97.5 equip. . . (see figure 126 and 129	Ref	524-574, 588-
-8	AN815-6D	. . . UNION	1	141-
-9	AN6290-6	. . . GASKET	3	141-
-10	AN926-6D	. . . TEE	1	141-
-11	AN919-6D	. . . REDUCER	1	141-
-12	AN6291-6	. . . RING	1	141-
-13	AN6289D6	. . . NUT	1	141-
-14	AN833-6D	. . . ELBOW	1	141-
-15	159-58816-7	. . . LINE ASSY, System pressure from relief valve to tee . .	1	141-
-16	159-58042-3	. . . VALVE ASSY, Hyd sys complete relief (see figure 121 . . for detail breakdown and attaching parts)	1	141-
-17	159-58816-3	. . . LINE ASSY, System pressure from elbow on system . . . . pressurizing valve to relief valve	1	141-
-18	159-58054-3	. . . VALVE ASSY, Hyd sys complete solenoid by-pass (see . . fig. 141 for detail breakdown & attaching parts	1	141-
-19	159-58816-5	. . . LINE ASSY, System return from relief valve to elbow on. system pressurizing valve	1	141-
-20	159-58816-51	. . . LINE ASSY, System pressure firewall to check valve on . depressurizing valve	1	141-
	159-58014	. HYDRAULIC EQUIPMENT INSTALLATION, Fuselage station +9.5 . . . firewall (see figure 62 for next assembly	NP	141-
-21	3H2-8-104	. . HOSE (North American)	1	141-
	AN737-30	. . CLAMP	1	141-
-22	159-52407	SUPPORT ASSEMBLY, Rudder pedal and adjusting	Ref	
-23	For continuation of this line see figure 1-2		Ref	
-24	For continuation of this line see figure 126		Ref	
-25	For continuation of this line see figure 119		Ref	
-26	For continuation of this equipment see figure 152		Ref	
-27	For continuation of this line see figure 120		Ref	

FUSELAGE HYDRAULICS (Cont)

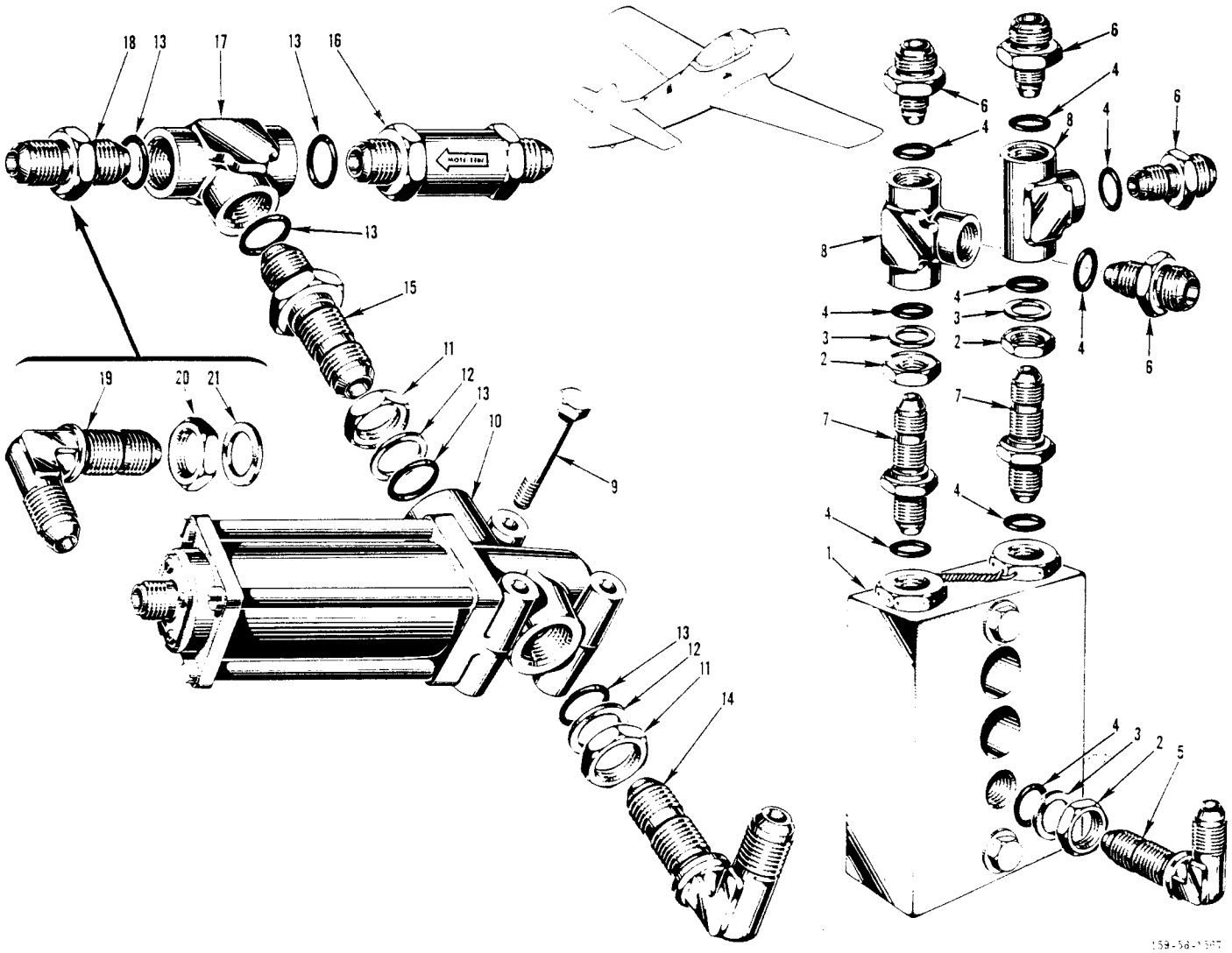


FIGURE 123 - HYDRAULIC THERMAL RELIEF VALVE AND SOLENOID BY-PASS VALVE

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
123		HYDRAULIC THERMAL RELIEF VALVE AND SOLENOID BY-PASS VALVE		
	159-58041	. VALVE ASSEMBLY, Hydraulic complete thermal relief (see figure 134 for next assembly) . . .	Ref	
-1	MCR--03	. . VALVE ASSY, Microseal double thermal relief (Barnes Prod.	1	
-2	AN6289D4	. . NUT	3	
-3	AN6291-4	. . RING	3	
-4	AN6290-4	. . GASKET	5	
-5	AN833-4D	. . ELBOW	1	
-6	AN919-6D	. . REDUCER	1	
-7	AN832-4D	. . UNION	2	
-8	AN930-4D	. . TEE	2	
	159-58054	. VALVE ASSEMBLY, Hydraulic system complete solenoid by-pass (see figure 121 for next assembly)	Ref	4-140
	159-58054-3	. VALVE ASSEMBLY, Hydraulic system complete solenoid by-pass (see figure 122 for next assembly)	Ref	141-
	ATTACHING PARTS			
-9	AN3-22A	. BOLT	3	
	---*---			
-10	20385	. . VALVE ASSY, Solenoid by-pass 1500 PSI (Adel Precision) (Whittaker 107255 or 103801 may be substituted) . .	1	
-11	AN6289D8	. . NUT	2	
-12	AN6291-8	. . RING	2	
-13	AN6290-8	. . GASKET	5	
-14	AN833-8D	. . ELBOW	1	
-15	AN832-8D	. . UNION	1	
-16	AN6207-8	. . VALVE ASSEMBLY, 1500 PSI Hydraulic check	1	
-17	AN929-8D	. . TEE	1	
-18	AN815-8D	. . UNION	1	4-140
-19	AN833-8D	. . ELBOW	1	141-
-20	AN6289D8	. . NUT	1	141-
-21	AN6291-8	. . RING	1	141-

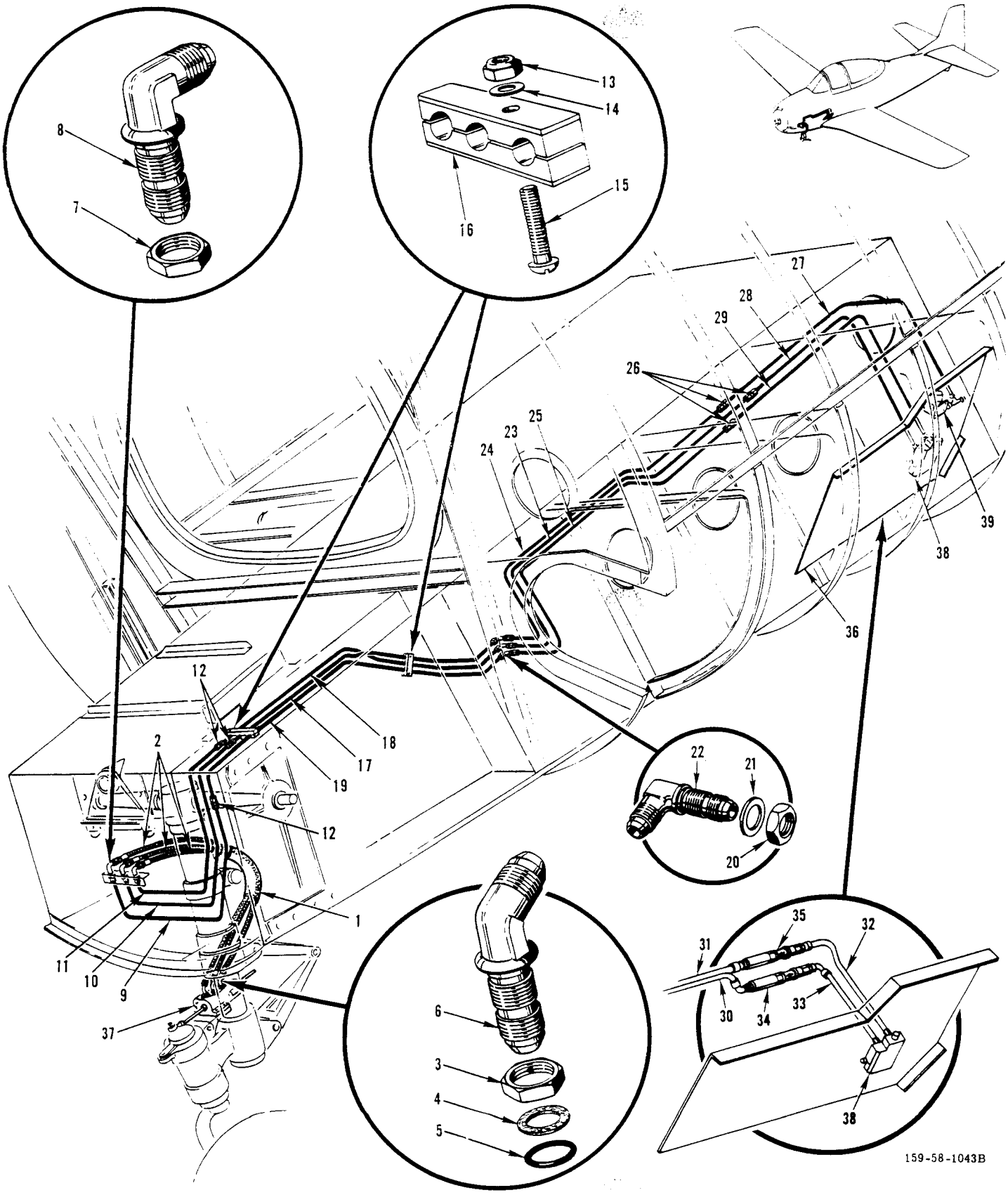


FIGURE 124 - NOSE WHEEL STEERING HYDRAULIC SYSTEM EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
124		NOSE WHEEL STEERING HYDRAULIC SYSTEM EQUIPMENT		
	159-58006	. HYDRAULIC SYSTEM EQUIPMENT INSTL, Nose wheel well (see figure 56 for next assembly)	NP	
	159-58006-7	. . HOSE ASSEMBLY, Nose wheel steering complete	1	
-1	159-58006-3	. . . COVER, Leather	1	
	159-58006-5	. . . LACING	AR	
-2	AN6271---25 1-2	. . . HOSE ASSEMBLY (nose wheel steering)	1	
-3	AN6289D4	. . NUT	1	
-4	AN6291-4	. . RING	1	
-5	AN6290-4	. . GASKET	1	
-6	AN817--D	. . ELBOW	1	
-7	AN824--D	. . NUT	1	
-8	AN818--D	. . ELBOW	1	
-9	159-58806-13	. . LINE ASSEMBLY, Hydraulic cylinder II steering right pressure 90° elbow sta 28 to union station 35.5	1	
-10	159-58806-11	. . LINE ASSEMBLY, Steering pressure 90° bulkhead elbow station 28 to union station 42.5	1	
-11	159-58806-9	. . LINE ASSEMBLY, Hyd cylinder I nose gear steering left pressure 90° bulkhead elbow sta 28 to union sta 38	1	
-12	AN815--D	. . UNION	1	
-13	AN924-1032	. . NUT	2	
-14	AN960D10L	. . WASHER	2	
-15	AN521-10R10	. . SCREW	2	
-16	159-58064	. . SUPPORT ASSY, Hyd steering lines fuselage sta 39 & 46	1	
	159-58022	. HYDRAULIC EQUIPMENT INSTALLATION, Mating nose wheel to side panel (see figure 51 for next assembly)	NP	
-17	159-58806-19	. . LINE ASSEMBLY, Hydraulic steering pressure union sta 42.5 to 90° bulkhead elbow sta 54.5	1	
-18	159-58806-17	. . LINE ASSEMBLY, Hydraulic cylinder I steering pressure union sta 38 to 90° bulkhead elbow station 54.5	1	
-19	159-58806-15	. . LINE ASSEMBLY, Hydraulic cylinder II steering pressure union sta 35.5 to 90° bulkhead elbow sta 54.5	1	
	159-58008	. HYDRAULIC EQUIPMENT INSTL, LH lower fuselage sta 49 1/2 to station 97.5 (see figure 62 for next assembly)	NP	1-140
	159-58005	. HYDRAULIC EQUIPMENT INSTL, LH lower fuselage sta 49 1/2 to station 97.5 (see figure 62 for next assembly)	NP	141-
-20	AN824--D	. . NUT	1	
-21	AN960D716	. . WASHER	1	
-22	AN818--D	. . ELBOW	1	
-23	159-58808-45	. . LINE ASSEMBLY, Hyd nose gear steering left from union station 81 to union station 63	1	1-396
-24	159-58808-53	. . LINE ASSEMBLY, Hyd steering pressure from union station 80 to union station 63	1	1-396
	159-58816-75	. . LINE ASSEMBLY, Hyd steering pressure from union station 81 to union station 63	1	397-
-25	159-58808-41	. . LINE ASSEMBLY, Hyd nose gear steering right from union station 81 to union station 63	1	1-396
-26	AN815--D AN815--D	. . UNION . . UNION	1 2	1-396
-27	159-58808-51	. . LINE ASSEMBLY, Hyd steering pressure from nose gear steering selector valve to union station 81	1	1-140
	159-58816-41	. . LINE ASSEMBLY, Steering pressure tee on control valve to union	1	141-
-28	159-58808-43	. . LINE ASSEMBLY, Hydraulic nose gear steering left from nose gear steering selector valve to union sta 81	1	1-140
	159-58816-43	. . LINE ASSEMBLY, Steering left tee on sel valve to union	1	141-396
-29	159-58808-39	. . LINE ASSEMBLY, Hyd nose gear steering right from nose gear steering selector valve to union at sta 81	1	1-140
	159-58816-45	. . LINE ASSY, Steering right tee on sel valve to union	1	141-396
-30	159-58816-61	. . LINE ASSY, Steering left from flow regulator to bulkhead elbow station 63	1	397-
-31	159-58816-59	. . LINE ASSY, Steering right from flow regulator to bulkhead elbow station 63	1	397-
-32	159-58816-55	. . LINE ASSY, Steering right tee on selector valve to filter and flow regulator assembly	1	397-
-33	159-58816-57	. . LINE ASSY, Steering left tee on selector valve to filter and flow regulator assembly	1	397-
-34	159-58065-3	. . VALVE ASSY, Hyd steering sys complete flow regulator (see figure 129 for detail breakdown)	1	397-
-35	159-58065-5	. . VALVE ASSY, Hyd steering sys complete flow regulator (see figure 129 for detail breakdown)	1	397-
-36	159-58059	PANEL ASSEMBLY, Hydraulic LH lower fuselage station 68.75 to 97.5 equipment (see figure 139)	Ref	
	159-58059-3	PANEL ASSEMBLY, Hydraulic LH lower fuselage station 68.75 to 97.5 equipment (see figure 139)	Ref	
	159-58059-5	PANEL ASSEMBLY, Hydraulic LH lower fuselage station 68.75 to 97.5 equipment (see figure 139)	Ref	
	159-58069	PANEL ASSEMBLY, Hydraulic LH lower fuselage station 68.75 to 97.5 equipment (see figure 139)	Ref	
-37	159-54201-20	DAMPER ASSY, Aux LG steering and shimmy (see figure 213)	Ref	
-38	159-58049-3	VALVE ASSY, Hyd nose gear steering sel complete (see fig. 126)	Ref	
-39	159-58052	VALVE ASSY, Hyd steering control complete (see fig. 125)	Ref	

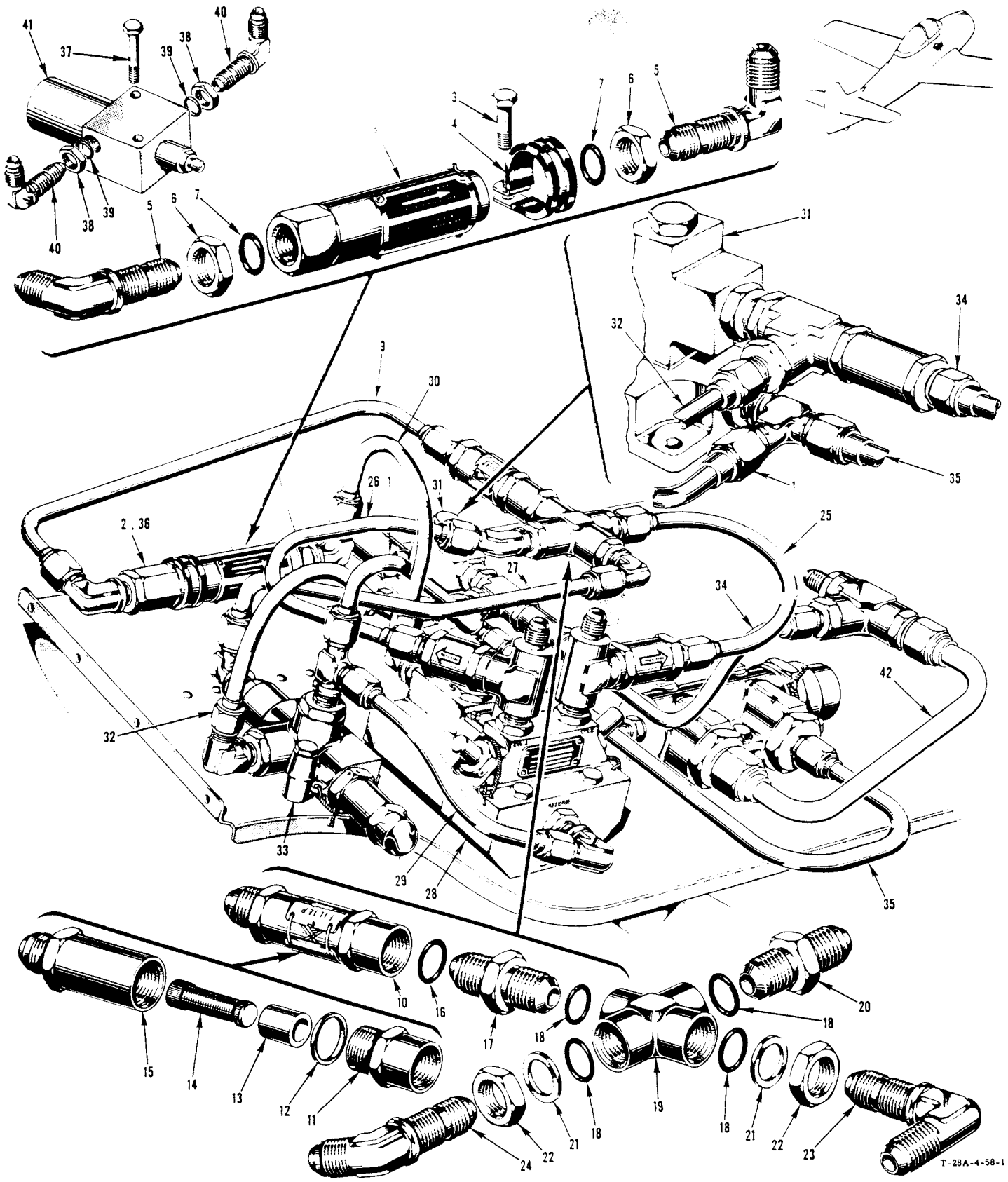
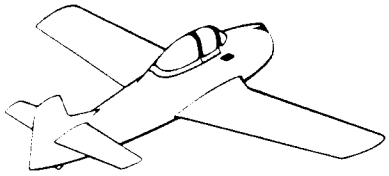
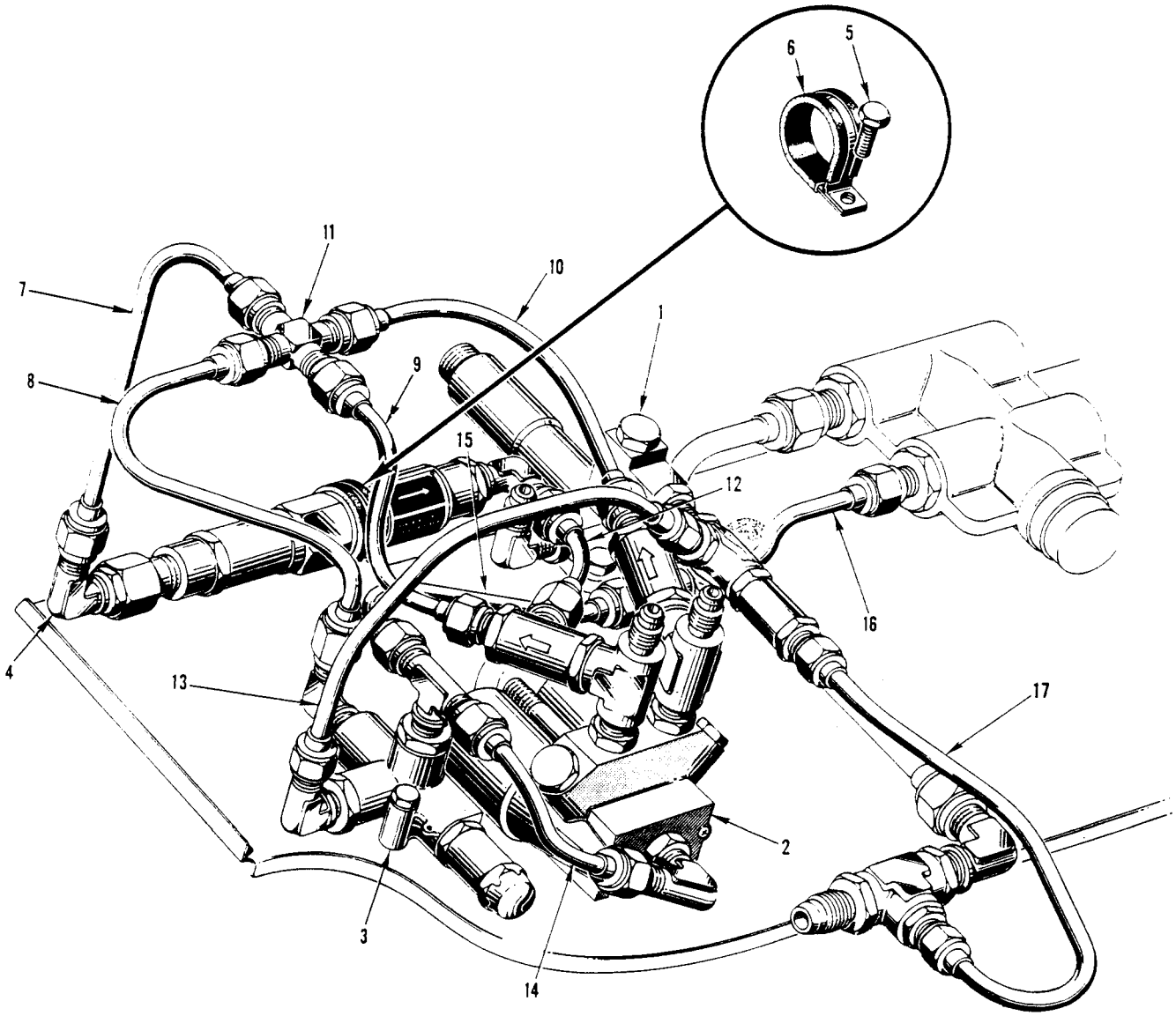


FIGURE 12- - NOSE WHEEL STEERING HYDRAULIC PANEL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
125			NOSE WHEEL STEERING HYDRAULIC PANEL ASSEMBLY		
	159-58059	.	PANEL ASSY, Hyd LH lower fuselage sta 68.75 to 97.5 equip. (see figure 139 for next assy and figure 121 and 140 for additional breakdown)	Ref	21-140
	159-58059-5	.	PANEL ASSY, Hyd LH lower fus sta 68.75 to 97.5 equipment (see figure 139 for next assembly and figure 121 and 140 for additional breakdown)	Ref	11-20
	159-58059-3	.	PANEL ASSY, Hyd LH lower fus sta 68.75 to 97.5 equipment (see figure 139 for next assembly and figure 121 and 140 for additional breakdown)	Ref	4-10
-1	159-58808-67	. .	LINE ASSEMBLY, Steering return from pressure reducer to power control	1	4-140
-2	159-58065	. .	VALVE ASSY, Hyd steering sys complete flow regulator	1	11-140
	ATTACHING PARTS				
-3	AN3-4A	. .	BOLT	1	11-140
-4	AN742D13C	. .	CLAMP	1	11-140
	---*---				
-5	AN833-4D	. . .	ELBOW	2	11-140
-6	AN924-4D	. . .	NUT	2	11-140
-7	AN6227-7	. . .	PACKING	2	11-140
-8	1962-4-.36	. . .	REGULATOR ASSY, Flow 3000 PSI service (Waterman Engr.	1	11-140
-9	159-58810-53	. .	LINE ASSY, Steering pressure from flow regulator to filter assembly	1	11-140
	159-58810-61	. .	LINE ASSY, Steering pressure from adjustable flow regulator to filter assembly	1	4-10
-10	151-58010	. .	FILTER ASSEMBLY, Hydraulic 1/4 tube size	1	4-140
-11	151-58313	. . .	ADAPTER, Hydraulic filter 1/4 tube size	1	4-140
-12	AN6290-6	. . .	GASKET	1	4-140
-13	141-58396	. . .	GUIDE, Hydraulic two-way restrictor valve filter	1	4-140
-14	36837	. . .	FILTER ASSEMBLY (Purolator Product)	1	4-140
-15	151-58314	. . .	BODY, Hydraulic filter 1/4 tube size	1	4-140
-16	AN6290-6	. .	GASKET	1	4-140
-17	AN919-6D	. .	REDUCER	1	4-140
-18	AN6290-4	. .	GASKET	4	4-140
-19	AN925-4D	. .	CROSS	1	4-140
-20	AN815-4D	. .	UNION	1	4-140
-21	AN6291-4	. .	RING	2	4-140
-22	AN6289D4	. .	NUT	2	4-140
-23	AN833-4D	. .	ELBOW	1	4-140
-24	AN837-4D	. .	ELBOW	1	4-140
-25	159-58810-55	. .	LINE ASSEMBLY, Nose gear steering selector valve check valve to cross forward	1	4-140
-26	159-58810-57	. .	LINE ASSEMBLY, Nose gear steering selector valve check valve to cross aft	1	4-140
-27	159-58810-59	. .	LINE ASSEMBLY, Nose gear steering pressure reducer to cross	1	4-140
-28	159-58049-3	. .	VALVE ASSY, Hyd nose gear steering selector complete (see fig. 127 for detail breakdown & attaching parts)	1	4-140
-29	159-58808-5	. .	LINE ASSEMBLY, System return from nose gear selector valve to pressure reducer	1	4-140
-30	159-58808-63	. .	LINE ASSEMBLY, Steering pressure from elbow regulator to steering selector valve	1	11-140
	159-58808-71	. .	LINE ASSEMBLY, Steering pressure from adjustable flow regulator to steering selector valve	1	4-10
-31	159-58052	. .	VALVE ASSY, Hyd steering control complete (see fig. 127 for detail breakdown and attaching parts)	1	4-140
-32	159-58807-45 *1	. .	LINE ASSY, System pressure from steering power control valve to pressure reducer	1	4-140
-33	159-58066	. .	VALVE ASSEMBLY, Hydraulic steering system complete pressure reducing (see figure 127 for detail breakdown and attaching parts)	1	4-140
-34	159-58807-47 *1	. .	LINE ASSEMBLY, System pressure from tee to steering power control valve	1	4-140
-35	159-58808-7	. .	LINE ASSEMBLY, System return from steering power control valve to relief valve	1	4-140
-36	159-58067	. .	VALVE ASSEMBLY, Hydraulic steering system complete adjustable flow regulator	1	4-10
	ATTACHING PARTS				
-37	AN4-17A	. .	BOLT	2	4-10
	---*---				
-38	AN924-4D	. . .	NUT	2	4-10
-39	AN6227-7	. . .	PACKING	2	4-10
-40	AN833-3D	. . .	ELBOW	2	4-10
-41	326-4-.1	. . .	VALVE ASSY, Hyd steering sys complete adjustable flow regulator (Waterman Engineering)	1	4-10
-42	For continuation of this equipment see figure 121			Ref	

*1 Refer to T. O. 1T-28A-201.





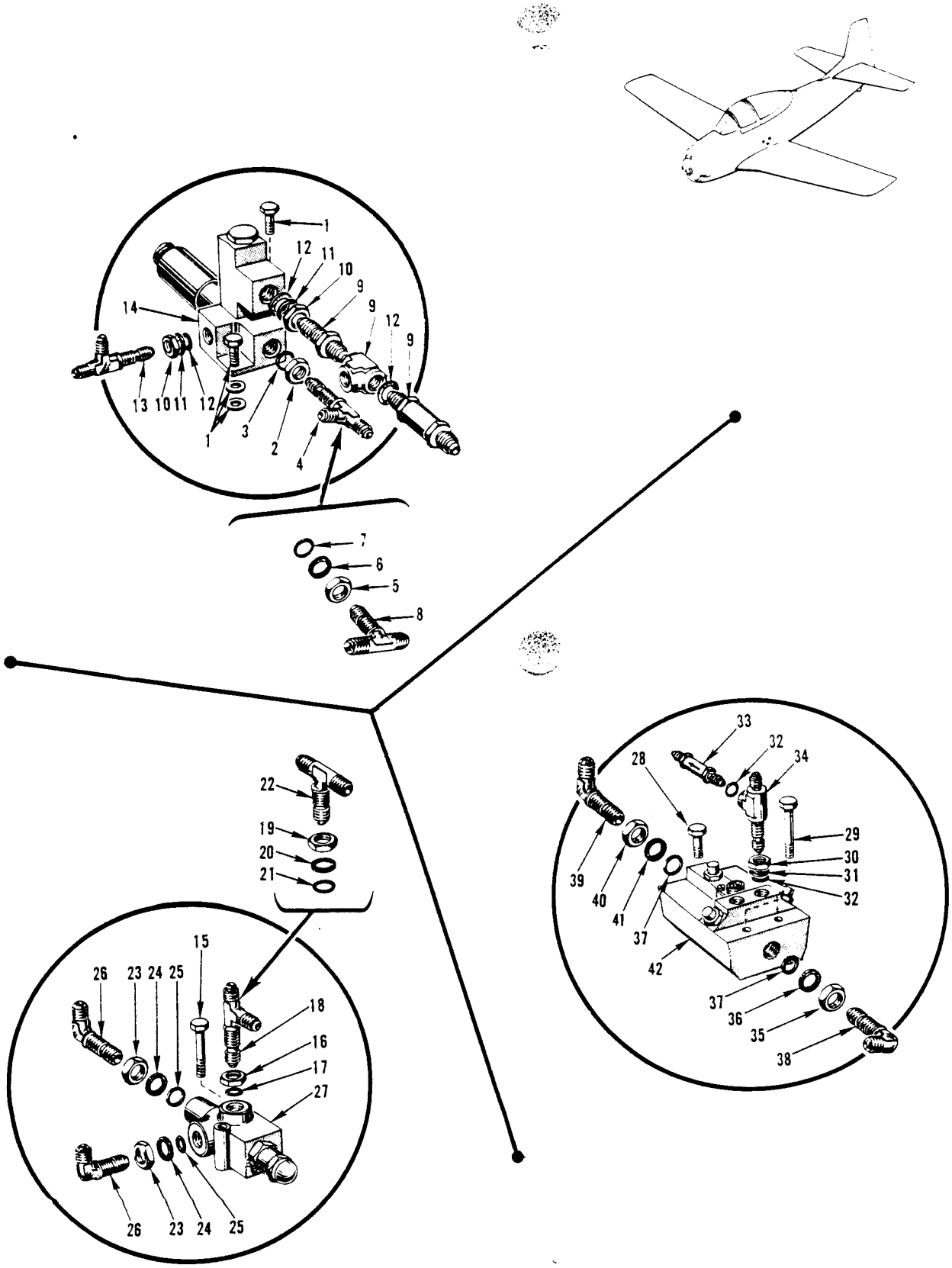
T-28A-4-58-2

FIGURE 126 - NOSE WHEEL STEERING HYDRAULIC PANEL ASSEMBLY

FUSELAGE HYDRAULICS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
126			NOSE WHEEL STEERING HYDRAULIC PANEL ASSEMBLY		
	159-58069	.	PANEL ASSEMBLY, Hyd LH lower fuselage sta 68.75 to sta 97.5 equipment (see figure 139 for next assy and figure 122 for additional breakdown) . . .	Ref	141-396
	159-58069-10	.	PANEL ASSEMBLY, Hyd LH lower fuselage sta 68.75 to sta 97.5 equipment (see figure 139 for next assy and figure 122 for additional breakdown) . . .	Ref	397-523, 575-587
	159-58069-20	.	PANEL ASSEMBLY, Hyd LH lower fuselage sta 68.75 to sta 97.5 equipment (see figure 139 for next assy and figure 122 for additional breakdown) . . .	Ref	524-574, 588-
-1	159-58052-3	. .	VALVE ASSY, Hyd steering control complete (see fig. 127 for detail breakdown and attaching parts) .	1	141-523, 575-587
	174-58052	. .	VALVE ASSY, Hyd steering control complete (see fig. 127 for detail breakdown and attaching parts) .	1	524-574, 588-
-2	159-58049-3	. .	VALVE ASSY, Hyd nose gear steering selector complete (see fig. 127 for detail breakdown and attaching parts)	1	141-
-3	159-58066-3	. .	VALVE ASSY, Hydraulic steering system complete pressure reducing (see figure 127 for detail breakdown and attaching parts	1	141-
-4	159-58065-3	. .	VALVE ASSY, Hydraulic steering system complete flow regulator (see figure 129 for detail breakdown) . . .	1	141-396
	ATTACHING PARTS				
-5	AN3--A	. .	BOLT	1	141-
-6	AN742D180	. .	CLAMP	1	141-
	---*---				
-7	159-58816-19	. .	LINE ASSY, Steering press. from cross sta 97 to filter . .	1	141-396
	159-58816-53	. .	LINE ASSY, Steering press. from cross sta 97 to steering selector valve	1	397-
-8	159-58816-17	. .	LINE ASSY, Steering pressure from pressure reducer to cross station 97 . .	1	141-
-9	159-58816-21	. .	LINE ASSY, Nose gear steering right from selector valve check valve to cross station 97 .	1	141-
-10	159-58816-23	. .	LINE ASSY, Nose gear steering left from selector valve check valve to cross station 97 . .	1	141-
-11	AN827--8	. .	ORIFICE	1	141-
-12	159-58816-25	. .	LINE ASSY, Steering pressure from flow regulator to steering selector valve . . .	1	141-396
-13	159-58807--1 *1	. .	LINE ASSY, System pressure from steering power control valve to pressure reducer . .	1	141-
-14	159-58816-27	. .	LINE ASSY, Steering return from selector valve to pressure reducer	1	141-
-15	159-58816-15	. .	LINE ASSY, Steering return pressure reducer to power control valve . . .	1	141-
-16	159-58816-9	. .	LINE ASSY, System return from steering power control valve to relief valve . . .	1	141-
-17	159-58807-47 *1	. .	LINE ASSY, System pressure from tee to steering power control valve . .	1	141-

*1 Refer to T. O. 1T-28A-201.



T-28A-4-58-3

FIGURE 127 - HYDRAULIC STEERING SYSTEM VALVES

FUSELAGE HYDRAULICS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USED
127			HYDRAULIC STEERING SYSTEM VALVES		
	159-58052		. VALVE ASSEMBLY, Hydraulic steering control complete (see figure 125 for next assembly)	Ref	4-1
	159-58052-3		. VALVE ASSEMBLY, Hydraulic steering control complete (see figure 126 for next assembly)	Ref	141-523, 575-587
	174-58052		. VALVE ASSEMBLY, Hydraulic steering control complete (see figure 126 for next assembly)	Ref	524-574, 588-
	ATTACHING PARTS				
-1	AN3-6A		. BOLT	2	
	AN960D10		. WASHER	4	41-
	---*---				
-2	AN924-4D		. . NUT	1	4-140
-3	AN6227-7		. . PACKING	1	4-140
-4	AN804D4		. . TEE	1	4-140
-5	AN6289D4		. . NUT	1	141-
-6	AN6291-4		. . RING	1	141-
-7	AN6290-4		. . GASKET	1	141-
-8	AN834-4D		. . TEE	1	141-
-9	AN6207-4		. . VALVE, 1500 PSI Hydraulic check	1	
-9A	AN832-4D	*2	. . UNION	1	
-9B	AN938D4	*2	. . TEE	1	
-10	AN6289D4		. . NUT	2	
-11	AN6291-4		. . RING	2	
-12	AN6290-4		. . GASKET	3	
-13	AN833-4D	*2	. . ELBOW	1	
-14	SSV4-01		. . VALVE ASSY, Hyd solenoid slide (Bertea Products)	1	4-523, 575-587
	25370		. . VALVE ASSY, Hyd solenoid operating 3-way 1500 PSI (Adel)	1	524-574, 588-
	159-58066		. VALVE ASSEMBLY, Hydraulic steering system complete pressure reducing (see figure 125 for next assembly)	Ref	4-140
	159-58066-3		. VALVE ASSEMBLY, Hydraulic steering system complete pressure reducing (see figure 126 for next assembly)	Ref	141-
	ATTACHING PARTS				
-15	AN3-13A		. BOLT	2	
	---*---				
-16	AN924-4D		. . NUT	1	4-140
-17	AN6290-4		. . GASKET	1	4-140
-18	AN804D4		. . TEE	1	4-140
-19	AN6289D4		. . NUT	1	141
-20	AN6291-4		. . RING	1	141
-21	AN6290-4		. . GASKET	1	141-
-22	AN834-4D		. . TEE	1	141-
-23	AN6289D4		. . NUT	2	
-24	AN6291-4		. . RING	2	
-25	AN6290-4		. . GASKET	2	
-26	AN833-4D		. . ELBOW	2	
-27	2L22005	*1	. . VALVE ASSEMBLY, Hydraulic pressure reducing steering (Hansen-Lynn Co., Inc.)	1	
	159-58049-3		. VALVE ASSEMBLY, Hydraulic nose gear steering selector complete (supersedes 159-58049) (see figure 125 and 126 for next assembly)	Ref	
	ATTACHING PARTS				
-28	AN3-5A		. BOLT	1	
-29	AN3-15A		. BOLT	2	
	---*---				
-30	AN6289D4		. . NUT	2	
-31	AN6291-4		. . RING	2	
-32	AN6290-4		. . GASKET	4	
-33	AN6207-4		. . VALVE, 1500 PSI Hydraulic check	2	
-34	AN783D4		. . TEE	2	
-35	AN6289D4		. . NUT	1	
-36	AN6291-4		. . RING	1	
-37	AN6290-4		. . GASKET	2	
-38	AN833-4D		. . ELBOW	1	
-39	AN837-4D		. . ELBOW	1	
-40	AN6289D4		. . NUT	1	
-41	AN6291-4		. . RING	1	
-42	MNS4-02		. . VALVE ASSY, Hydraulic nose wheel steering (Bertea Products)	1	

NOTE: *1 All valves must have a letter "R" suffixed to their serial number or have a serial number of 150001 and sub. Valves not having the afore mentioned letter or serial numbers, should be replaced.

*2 Refer to T. O. 1T-28A-201.

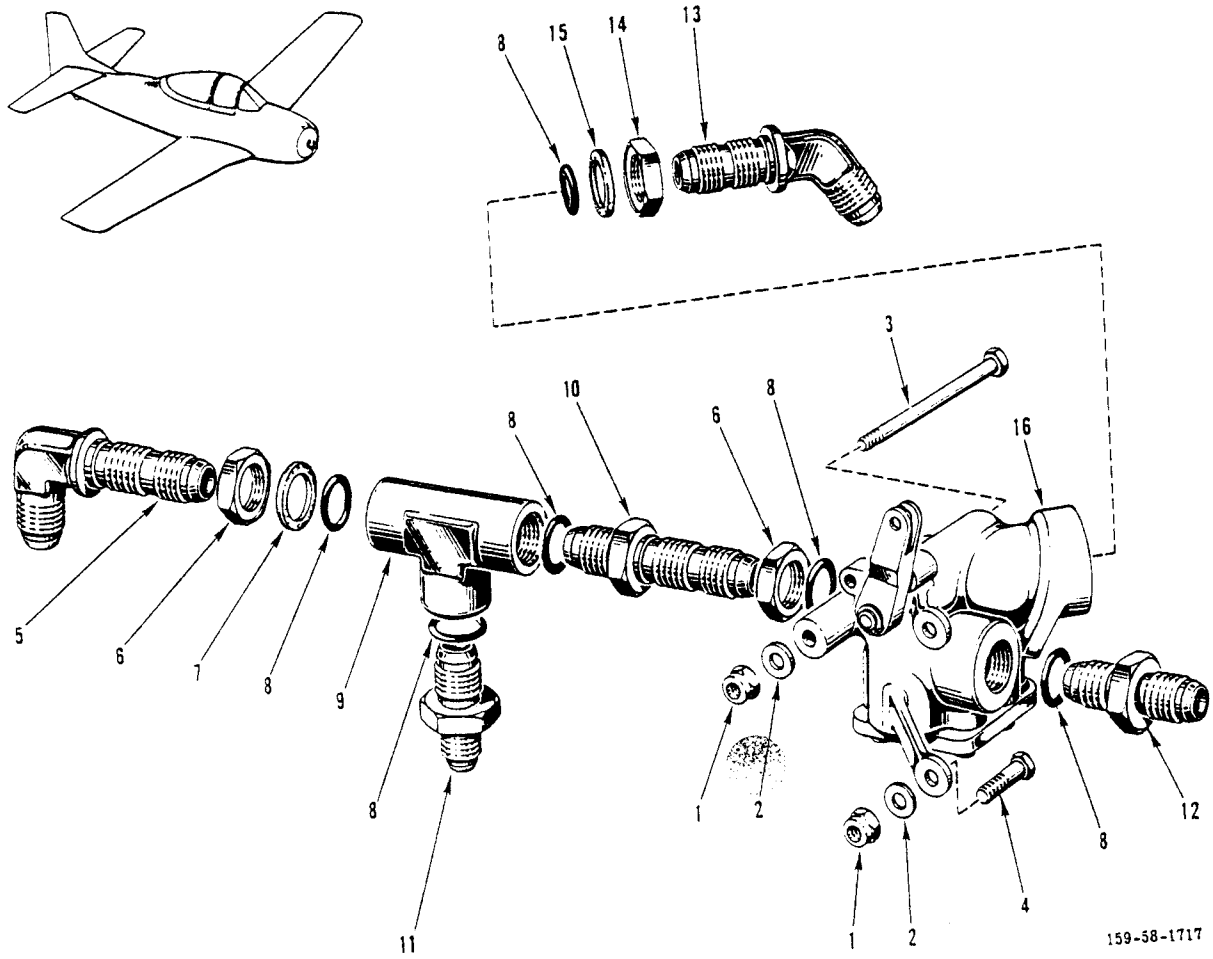


FIGURE 128 - HYDRAULIC CANOPY COMPLETE BY-PASS VALVE ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
128	159-58053	VALVE ASSEMBLY, Hydraulic canopy complete by-pass (see figure 134 for next assembly)	Ref	4-268
	159-58053-3	VALVE ASSEMBLY, Hydraulic canopy complete by-pass (see figure 134 for next assembly)	Ref	269-
		ATTACHING PARTS	3	
-1	AN365-428	NUT	3	
-2	AN960-416	WASHER	1	
-3	AN4-25A	BOLT	2	
-4	AN4-6A	BOLT	1	
		---*---		
-5	AN833-8D	. ELBOW	2	
-6	AN6289D8	. NUT	2	
-7	AN6291-8	. RING	3	
-8	AN6290-8	. GASKET	1	
-9	AN926-8D	. TEE	1	
-10	AN832-8D	. UNION	1	
-11	AN819-12D	. REDUCER	1	
-12	AN815-8D	. UNION	1	269-
-13	AN837-8D	. ELBOW	1	4-268
	AN815-8D	. UNION	1	269-
-14	AN6289D8	. NUT	1	269-
-15	AN6291-8	. RING	1	
-16	-590	. VALVE ASSY, Emer by-pass (Weston Hydraulics) (Weston valve must have the letter "H" after valve serial number)	1	

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FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
12			HYDRAULIC STEERING SYSTEM VALVES		
	159-58052	.	VALVE ASSEMBLY, Hydraulic steering control complete . . . . . see figure 12B for next assembly	Ref	4-140
	159-58052-3	.	VALVE ASSEMBLY, Hydraulic steering control complete . . . . . see figure 12C for next assembly	Ref	141-[illegible]
	174-58052	.	VALVE ASSEMBLY, Hydraulic steering control complete . . . . . see figure 12C for next assembly	Ref	[illegible] 588-
	ATTACHING PARTS				
-1	AN3-5A	.	BOLT	2	
	AN960D10	.	WASHER	1	-1-
	---*---				
-2	AN924-4D	. .	NUT	1	--140
-3	AN6227-4	. .	PACKING	1	--140
-4	AN814D4	. .	TEE	1	--140
-5	AN6289D4	. .	NUT	1	141-
-6	AN6291-4	. .	RING	1	141-
-7	AN6290-4	. .	GASKET	1	141-
-8	AN814-4D	. .	TEE	1	141-
-9	AN6217-4	. .	VALVE, 1500 PSI Hydraulic check	1	
-9A	AN832-4D	*2 . .	UNION	1	
-9B	AN833D4	*2 . .	TEE	1	
-10	AN6289D4	. .	NUT	1	
-11	AN6291-4	. .	RING	1	
-12	AN6290-4	. .	GASKET	1	
-13	AN832-4D	*2 . .	ELBOW	1	
-14	[illegible]	. .	VALVE ASSY, Hyd solenoid [illegible] Bertea Products	1	--121, 588-[illegible]
	2[illegible]	. .	VALVE ASSY, Hyd solenoid operating 4-way 1500 PSI [Adel] . .	1	121--[illegible] 588-
	159-[illegible]	.	VALVE ASSEMBLY, Hydraulic operating system complete pressure reducing see figure 12B for next assembly .	Ref	--1-1
	159-58066-1	.	VALVE ASSEMBLY, Hydraulic steering system complete pressure reducing see figure 12C for next assembly .	Ref	141-
	ATTACHING PARTS				
-15	AN3-13A	.	BOLT	2	
	---*---				
-16	AN924--D	. .	NUT	1	--1-1
-17	AN6290--	. .	GASKET	1	--1-1
-18	AN814-D4	. .	TEE	1	--1-1
-19	AN6289D4	. .	NUT	1	1-1-
-20	AN6291--	. .	RING	1	1-1-
-21	AN6290--	. .	GASKET	1	1-1-
-22	AN814--D	. .	TEE	1	1-1-
-23	AN6289D4	. .	NUT	2	
-24	AN6291--	. .	RING	2	
-25	AN6290--	. .	GASKET	2	
-26	AN832--D	. .	ELB W	2	
-27	2[illegible]05	*1 . .	VALVE ASSEMBLY, Hydraulic pressure reducing steering . . . Hamer-Lynn C., Inc.	1	
	159-58049-3	.	VALVE ASSEMBLY, Hydraulic nose rear steering selector . . . . complete supersedes 159-[illegible] see figure 12B and 12C for next assembly	Ref	
	ATTACHING PARTS				
-28	AN3-5A	.	BOLT	1	
-29	AN3-15A	.	BOLT	2	
	---*---				
-30	AN6289D4	. .	NUT	2	
-31	AN6291-4	. .	RING	2	
-32	AN6290-4	. .	GASKET	2	
-33	AN6217-4	. .	VALVE, 1500 PSI Hydraulic check	2	
-34	AN833D4	. .	TEE	2	
-35	AN6289D4	. .	NUT	1	
-36	AN6291-4	. .	RING	1	
-37	AN6290-4	. .	GASKET	1	
-38	AN833-4D	. .	ELBOW	1	
-39	AN837-4D	. .	ELBOW	1	
-40	AN6289D4	. .	NUT	1	
-41	AN6291--	. .	RING	1	
-42	MNS4-02	. .	VALVE ASSY, Hydraulic nose wheel steering (Bertea Products)	1	

NOTE: *1 All valves must have a letter "R" suffixed to their serial number or have a serial number of 150001 and sub. Valves not having the afore mentioned letter or serial numbers, should be replaced.

*2 Refer to T. O. 1T-28A-201.

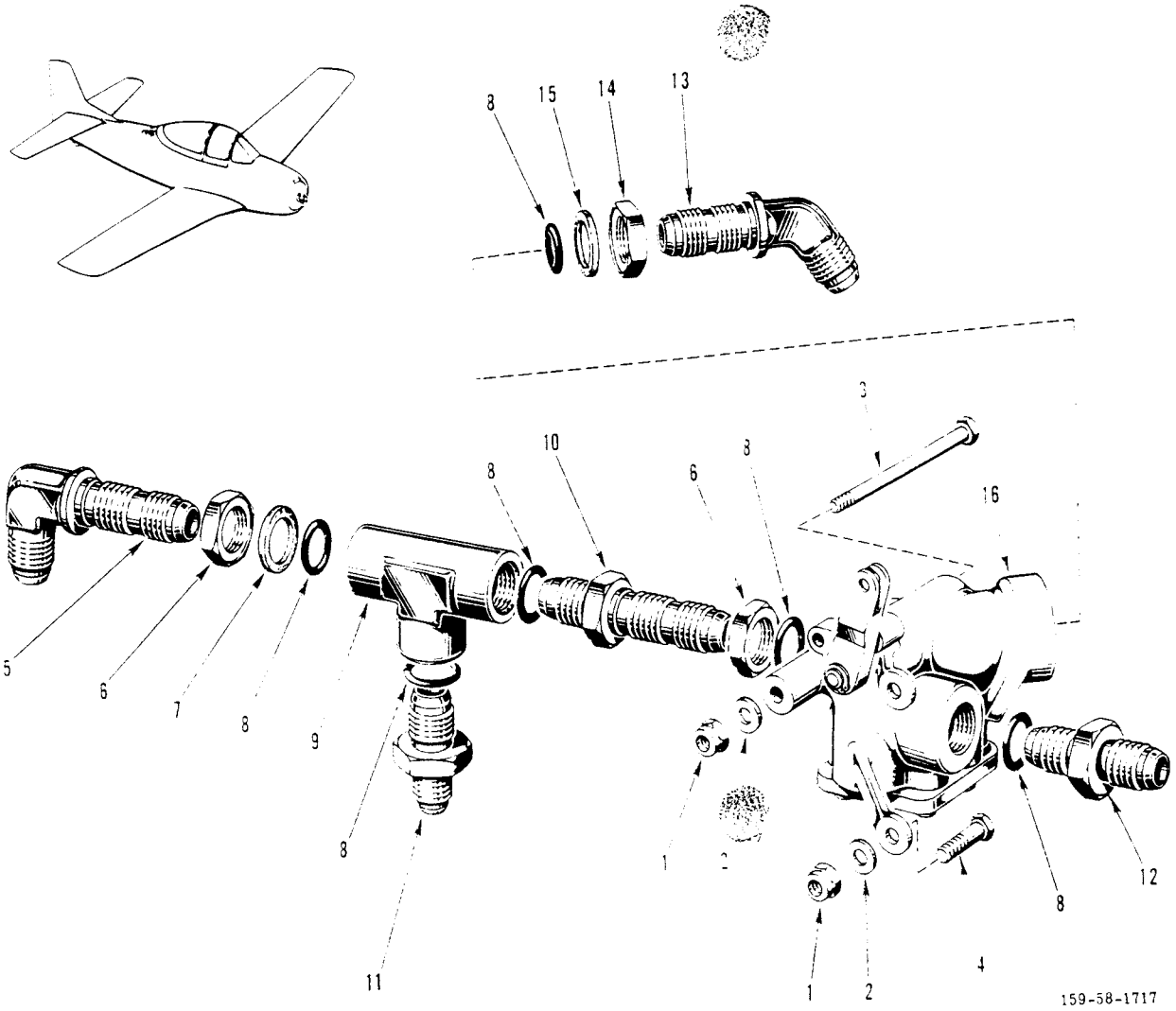
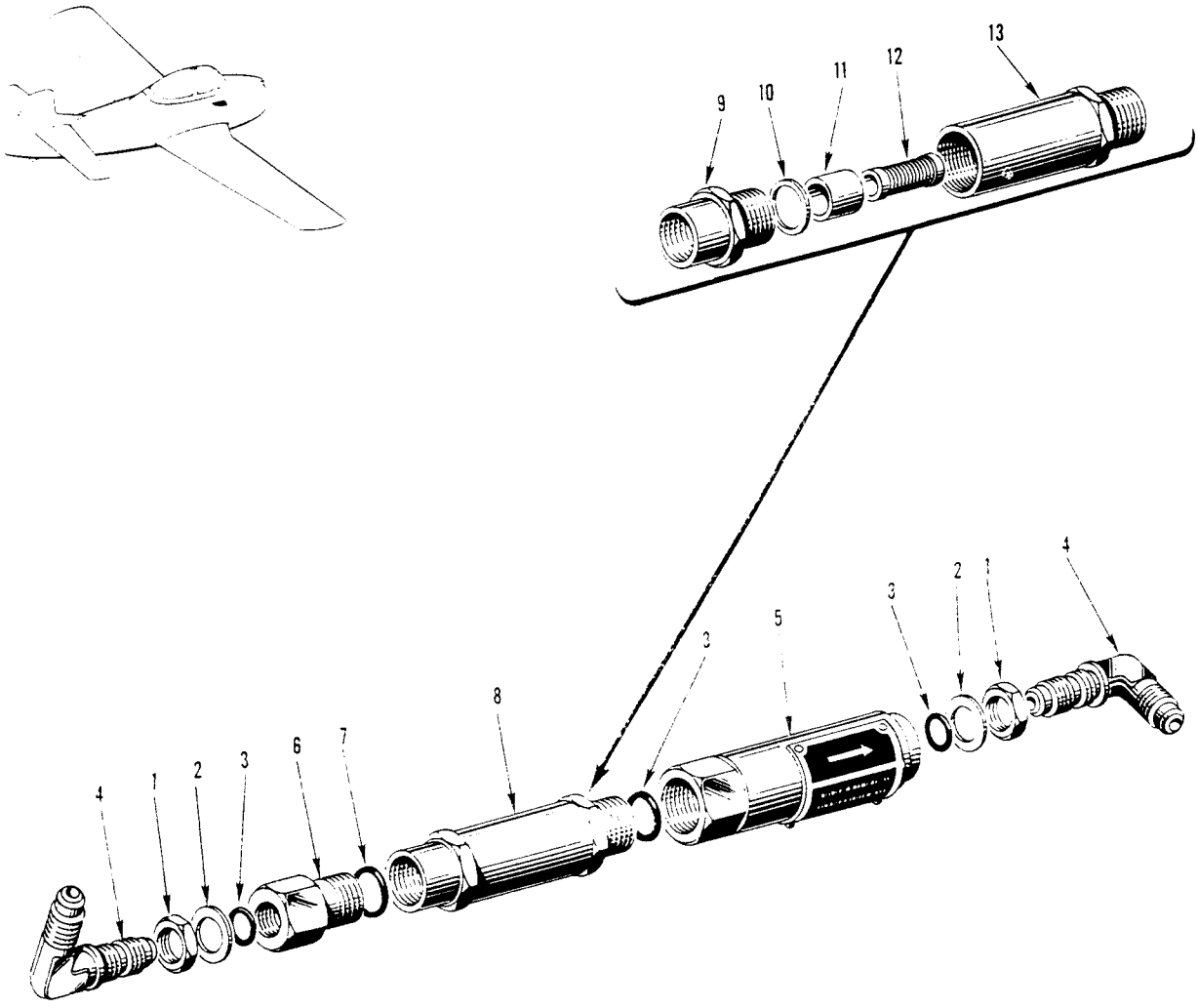


FIGURE 128 - HYDRAULIC CANOPY COMPLETE BY-PASS VALVE ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
128	159-58053	VALVE ASSEMBLY, Hydraulic canopy complete by-pass (see Figure 134 for next assembly)	Ref	--268
	159-58053-3	VALVE ASSEMBLY, Hydraulic canopy complete by-pass (see Figure 134 for next assembly	Ref	269-
		ATTACHING PARTS		
-1	AN365--428	NUT	3	
-2	AN960--16	WASHER	3	
-3	AN4-25A	BOLT	2	
-4	AN4-6A	BOLT	2	
		---*---		
-5	AN833-8D	. ELBOW	1	
-6	AN6289D6	. NUT	1	
-7	AN6291-6	. RING	1	
-8	AN6290-6	. GASKET	1	
-9	AN926-8D	. TEE	1	
-10	AN832-8D	. UNION	1	
-11	AN919-12D	. REDUCER	1	
-12	AN815-8D	. UNION	1	
-13	AN837-8D	. ELBOW	1	269-
	AN815-8D	. UNION	1	1-268
-14	AN6289D8	. NUT	1	269-
-15	AN6291-8	. RING	1	269-
-16	7590	. VALVE ASSY, By-pass (Weston Hydraulics, Weston valve must have the letter "A" after valve serial number	1	



159-58-1861

FIGURE 129 - HYDRAULIC STEERING SYSTEM COMPLETE FLOW REGULATOR VALVE ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
129	159-58065-3	VALVE ASSEMBLY, Hydraulic steering system complete flow regulator (see figure 124 and 126 for next assembly)	Ref	269-
	159-58065-5	VALVE ASSEMBLY, Hydraulic steering system complete flow regulator (see figure 124 for next assembly)	Ref	397-
-1	AN6289D4	. NUT (159-58065-3 only)	2	269-
-2	AN6291-4	. RING (159-58065-3 only)	2	269-
-3	AN6290-4	. GASKET	3	269-
-4	AN833-4D	. ELBOW (159-58065-3 only)	2	269-
	AN815-4D	. UNION (used on 159-58065-5)	2	397-
-5	1962-4-.36	. REGULATOR ASSY, Flow 3000 PSI service (Weston Hydraulics)	1	269-
-6	AN893-2D	. BUSHING	1	269-
-7	AN6290-6	. GASKET	1	269-
-8	151-58010	. FILTER ASSEMBLY, Hydraulic 1/4 tube size	1	269-
-9	151-58313	. . ADAPTER, Hydraulic filter 1/4 tube size	1	269-
-10	AN6290-6	. . GASKET	1	269-
-11	141-58396	. . GUIDE, Hydraulic two-way restrictor valve filler	1	269-
-12	36837	. . FILTER ASSEMBLY (Purolator Products)	1	269-
-13	151-58314	. . BODY, Hydraulic filter 1/4 tube size	1	269-

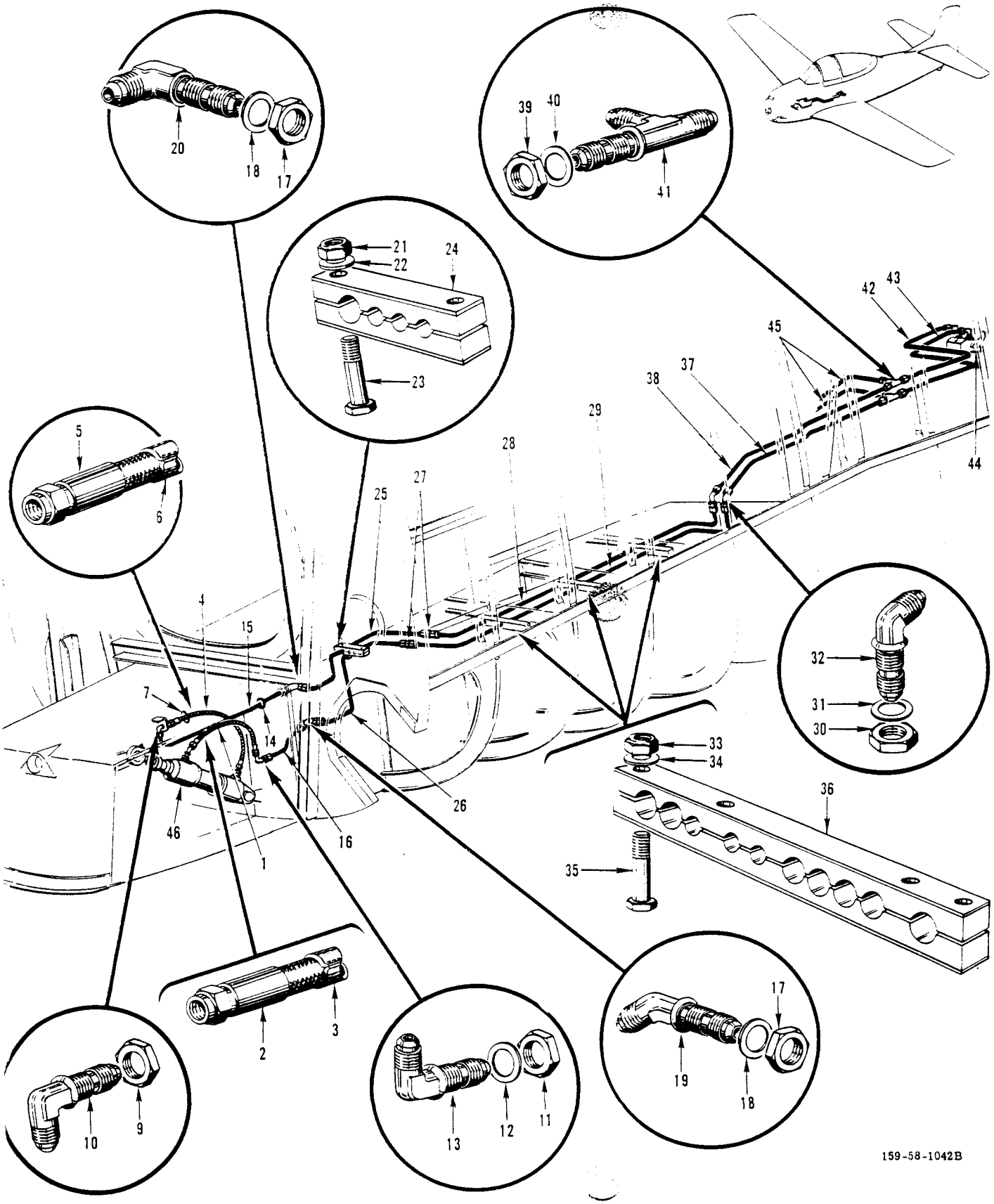


FIGURE 130 - AUXILIARY ALIGHTING GEAR HYDRAULIC EQUIPMENT

FUSELAGE HYDRAULICS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
130		AUXILIARY ALIGHTING GEAR HYDRAULIC EQUIPMENT		
	159-58006	. HYD SYS EQUIP. INSTL, Nose wheel well (see fig. 56 for next assy & fig. 124, 139, 249 for additional breakdown)	NP	
-1	3H3-6-13 (AN6271-6-13)	. . HOSE ASSY, Plastic covered (North American)(nose gear down) (supersedes 159-58412-5 for future procurement)	1	
	159-58412-5	. . HOSE ASSY, Hyd main landing gear cylinder (nose gear down)(superseded by 3H3-6-13 (AN6271-6-13)	1	
-2	AN6271-6-14	. . . HOSE ASSEMBLY	1	
-3	159-58412-11	. . . COVER, Main landing gear cylinder hose	1	
-4	3H3-6-14 (AN6271-6-14)	. . HOSE ASSY, Plastic covered (North American) (nose gear up) (supersedes 159-58412-6 for future procurement)	1	
	159-58412-6	. . HOSE ASSEMBLY, Hyd main LG cylinder (nose gear up) (superseded by 3H3-6-14 (AN6271-6-14)	1	
-5	AN6271-6-14	. . . HOSE ASSEMBLY	1	
-6	159-58412-12	. . . COVER, Main landing gear cylinder hose	1	
-7	295134-14A	. . GROMMET (United-Carr)	1	
-8	Deleted	. .		
-9	AN924-6D	. . NUT	1	
-10	AN833-6D	. . ELBOW	1	
-11	AN924-6D	. . NUT	1	
-12	2W1AL38-30-64	. . WASHER, Plain (North American)	1	
-13	AN833-6D	. . ELBOW	1	
	159-58022	. HYDRAULIC EQUIPMENT INSTALLATION, Mating nose wheel to side panel (see fig. 51 for next assy & fig. 124, 139 for additional breakdown)	NP	
-14	AN931A6S16	. . GROMMET	1	
-15	159-58806-27	. . LINE ASSY, Hydraulic gear up cylinder pressure 90° elbow sta 37.5 to 90° bulkhead elbow sta 55	1	
-16	159-58806-7	. . LINE ASSY, Hydraulic gear down cylinder pressure bhd union sta 49.5 to 45° bulkhead elbow sta 54.5	1	
	159-58008	. HYDRAULIC EQUIP. INSTL, LH lower fus sta 49 1/2 to sta 97.5 (see fig. 62 for next assy & fig. 121, 124, 138, 139, 142 for additional breakdown)	NP	4-140
	159-58005	. HYDRAULIC EQUIP. INSTL, LH lower fus sta 49 1/2 to sta 97.5 (see fig. 62 for next assy & fig. 122, 124, 138, 139, 142 for additional breakdown)	NP	141-
-17	AN924-6D	. . NUT	2	
-18	AN960D916	. . WASHER	2	
-19	AN837-6D	. . ELBOW	1	
-20	AN833-6D	. . ELBOW	1	
-21	AN365-1C32	. . NUT	2	
-22	AN960D10	. . WASHER	2	
-23	AN3-12A	. . BOLT	2	
-24	147-58358	. . SUPPORT ASSEMBLY, Hydraulic lines	1	4-396
	174-58230	. . SUPPORT ASSEMBLY, Hydraulic LH fus sta 59 1/8 lines	1	397-
-25	159-58808-77	. . LINE ASSEMBLY, Hydraulic nose gear up from union station 63 to 90° elbow station 54 1/2	1	4-396
	159-58816-63	. . LINE ASSEMBLY, Hydraulic nose gear up from union station 63 to 90° elbow station 54 1/2	1	397-
-26	159-58808-75	. . LINE ASSEMBLY, Hydraulic nose gear down from union station 63 to 45° elbow station 54 1/2	1	4-396
	159-58816-65	. . LINE ASSEMBLY, Hydraulic nose gear down from union station 63 to 45° elbow station 54 1/2	1	397-
-27	AN815-6D	. . UNION	2	
-28	159-58808-49	. . LINE ASSEMBLY, Hydraulic nose gear up from elbow station 92 3/4 to union station 63	1	
-29	159-58808-47	. . LINE ASSEMBLY, Hydraulic nose gear down from elbow station 92 3/4 to union station 63	1	4-396
	159-58816-73	. . LINE ASSEMBLY, Hydraulic nose gear down from elbow station 91 3/4 to union station 63	1	397-
-30	AN924-6D	. . NUT	2	
-31	AN960D916	. . WASHER	2	
-32	AN837-6D	. . ELBOW	2	
-33	AN365-1032	. . NUT	12	
-34	AN960D10	. . WASHER	18	
-35	AN3-12A	. . BOLT	12	
-36	159-58337	. . BLOCK ASSEMBLY, Hydraulic LH lower fuselage station 68	3	
	159-58017	. HYDRAULIC EQUIP. INSTL, Fus sta 49.5 to sta 168 LH side (see fig. 62 for next assy & fig. 116, 119, 120, 131, 136, 137, 141, 142 for additional breakdown)	NP	
-37	159-58817-73	. . LINE ASSEMBLY, Hydraulic fuselage station 113 tee to fuselage station 93 elbow nose gear down	1	
-38	159-58817-77	. . LINE ASSEMBLY, Hydraulic fuselage station 113 tee to fuselage station 92 elbow nose gear up	1	
-39	AN924-6D	. . NUT	2	
-40	AN960D916	. . WASHER	2	
-41	AN804D6	. . TEE	2	
-42	159-58817-75	LINE ASSEMBLY, Hydraulic fuselage sta 125 landing gear valve to fuselage sta 113 tee landing gear up (figure 38)	Ref	
-43	159-58817-71	LINE ASSEMBLY, Hydraulic fuselage sta 125 landing gear valve to fuselage sta 113 tee landing gear down (figure 38)	Ref	
-44	159-58048	VALVE ASSEMBLY, Hydraulic landing gear complete (see fig. 39)	Ref	
-45	No Number	For continuation of these lines see figure 38	Ref	
-46	159-58630	CYLINDER ASSY, Hyd aux LG complete operating (figure 211)	Ref	

FUSELAGE HYDRAULICS (Cont)

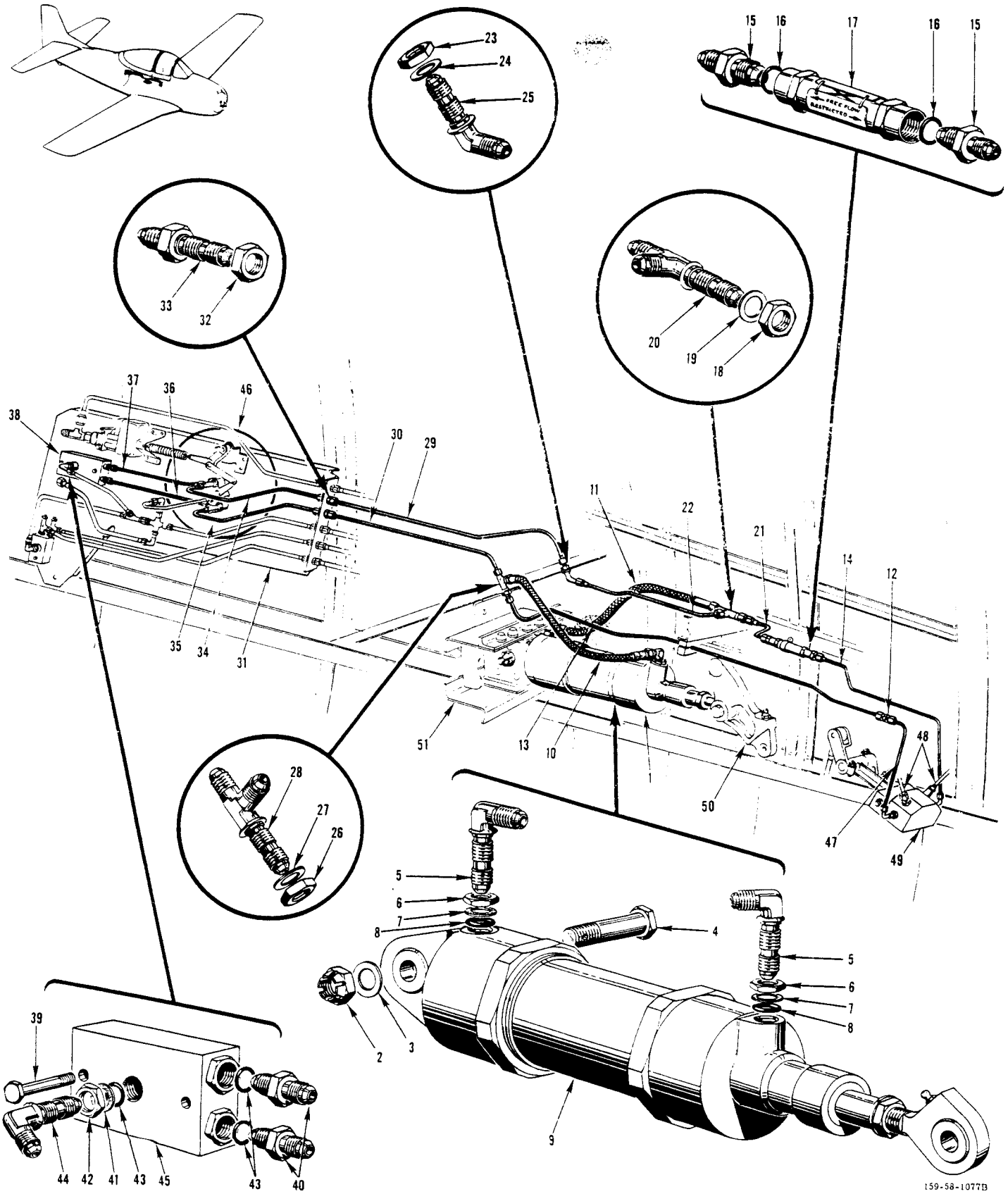


FIGURE 131 - FUSELAGE WING FLAP HYDRAULIC EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
131		FUSELAGE WING FLAP HYDRAULIC EQUIPMENT		
	159-58017	. HYDRAULIC EQUIPMENT INSTL, Fus sta +9.5 to sta 166 LH side (see fig. 62 for next assy & fig. 116, 119, 120, 130, 136, 137, 141 and 142 for additional breakdown)	NP	
-1	159-58632	. . CYLINDER ASSY, Hydraulic wing flap complete operating	1	
	ATTACHING PARTS			
-2	AN310-12	. . NUT	1	
-3	AN960-1016	. . WASHER	1	
-4	BOLT	. . BOLT	1	
	---*---			
-5	AN833--D	. . . ELBOW	2	
-6	AN6289D4	. . . NUT	2	
-7	AN6291--	. . . RING	2	
-8	AN6290--	. . . GASKET	2	
-9	159-58032	. . . CYLINDER ASSEMBLY, Hydraulic wing flap operating (for a list of detail parts refer to AN 01-60CX2)	1	
-10	AN6271---14	. . HOSE ASSEMBLY	1	
-11	AN6271---16	. . HOSE ASSEMBLY	1	
-12	AN815--D	. . UNION	1	
-13	159-58817-15	. . LINE ASSEMBLY, Hydraulic fuselage station 166 tee to fuselage station 131 union flaps up	1	
-14	159-58810-21	. . LINE ASSEMBLY, Hydraulic fuselage station 137 restrictor to fuselage station 131 union flaps down	1	
-15	AN919-6D	. . REDUCER	2	
-16	AN6290-6	. . GASKET	2	
-17	1V4-6-15	. . VALVE ASSY, Hyd one-way restrictor (for a list of detail parts refer to AN 01-60CX4 (supersedes 147-58045-21)	1	
-18	AN924--D	. . NUT	1	
-19	AN960D716	. . WASHER	1	
-20	AN804D4	. . TEE	1	
-21	159-58817-19	. . LINE ASSEMBLY, Hydraulic fuselage station 1-6 bulkhead tee to fuselage station 137 restrictor flaps down	1	
-22	159-58817-17	. . LINE ASSEMBLY, Hyd fus sta 153 canted angle -5° bulkhead elbow to fuselage sta -6 bulkhead tee flaps down	1	
-23	AN924--D	. . NUT	1	
-24	AN960D716	. . WASHER	1	
-25	AN833--D	. . ELBOW	1	
-26	AN924--D	. . NUT	1	
-27	AN960D716	. . WASHER	1	
-28	AN804D4	. . TEE	1	
	159-58019	. HYDRAULIC EQUIPMENT INSTL, Fus mating sta +9.5 to 238 7/8 (see fig. 50 for next assy & fig. 119, 120, 134 and 136 for additional breakdown)	NP	
-29	159-58817-11	. . LINE ASSY, Hyd fuselage sta 173 bhd union to fus sta 153 canted angle -5° bulkhead elbow flaps down	1	
-30	159-58817-9	. . LINE ASSY, Hyd fuselage station 173 bulkhead union to fuselage station 166 tee flaps down	1	
-31	No Number	. HYDRAULIC PANEL WING FLAP EQUIPMENT (see figure 135 for next assembly	NP	
-32	AN924-4D	. . NUT	2	
-33	AN832-4D	. . UNION	2	
-34	159-58811-11	. . LINE ASSEMBLY, Hydraulic flap down from flap by-pass valve to union on forward edge of panel	1	
-35	159-58811-15	. . LINE ASSEMBLY, Hydraulic flap up from flap by-pass valve to union on forward edge of panel	1	
-36	159-58811-13	. . LINE ASSEMBLY, Hydraulic flap up from flap thermal relief valve to flap by-pass valve	1	
-37	159-58811-9	. . LINE ASSEMBLY, Hydraulic flap down from flap thermal relief valve to flap by-pass valve	1	
-38	159-58043	. . VALVE ASSEMBLY, Hyd wing flap thermal relief complete	1	
	ATTACHING PARTS			
-39	AN3-12A	. . BOLT	2	
	---*---			
-40	AN815-4D	. . . UNION	2	
-41	AN6291-4	. . . RING	1	
-42	AN6289D4	. . . NUT	1	
-43	AN6290-4	. . . GASKET	3	
-44	AN833-4D	. . . ELBOW	1	
-45	MTR4-03	. . . VALVE ASSEMBLY, Thermal relief microseal (Bertea)	1	
-46	See figure 132 for this equipment		Ref	
-47	159-58810-25	LINE ASSEMBLY, Hydraulic flaps up (figure 39)	Ref	
-48	For continuation of these lines see figure 39		Ref	
-49	159-58046	VALVE ASSEMBLY, Hydraulic wing flap complete control (see figure 39)	Ref	
-50	159-18212	BELLCRANK ASSEMBLY, Flap actuating overcenter (see figure 117)	Ref	
-51	159-31616	SUPPORT ASSY, Fus sta 161.689 flap cyl rear (see fig. 63)	Ref	
	159-311151	SUPPORT ASSY, Fus sta 161.689 flap cyl rear (see fig. 63)	Ref	

FUSELAGE HYDRAULICS (Cont)

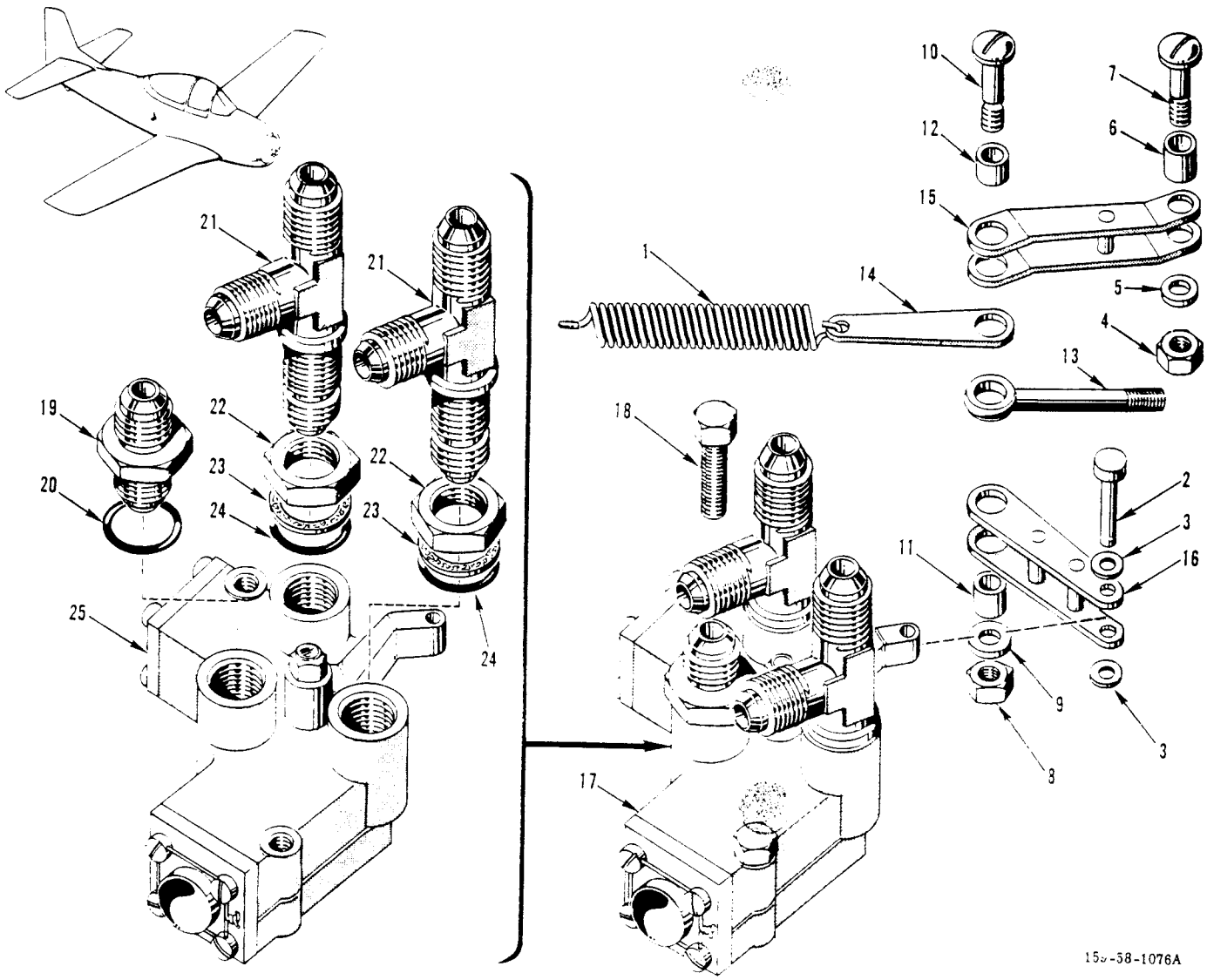


FIGURE 132 - HYDRAULIC PANEL WING FLAP BY-PASS EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
132	No Number		HYDRAULIC PANEL WING FLAP BY-PASS EQUIPMENT (see figure 135 for next assembly)	NP	
-1	120-63265		. SPRING, Tank release control section return WCS sta		
-2	AN392-12		. PIN		
-3	AN960D4		. WASHER		
-4	AN320-3		. NUT		
-5	AN960-10L		. WASHER		
-6	4S4-6-18		. SPACER, Rivet (North American		
-7	AN23-16		. BOLT		
-8	AN320-3		. NUT		
-9	AN960-10L		. WASHER		
-10	AN23-15		. BOLT		
-11	4S4-6-7		. SPACER, Rivet (North American		
-12	4S4-6-5		. SPACER, Rivet (North American		
-13	AN165-16S		. EYE		
-14	159-58343		. LINK, Hydraulic wing flap by-pass valve operating spring		
-15	159-58344		. ARM ASSY, Hyd wing flap by-pass valve operating upper		
-16	159-58345		. ARM ASSY, Hyd wing flap by-pass valve operating lower		
-17	159-58352		. VALVE ASSEMBLY, Hydraulic wing flap complete by-pass		
	ATTACHING PARTS				
-18	AN3-13A		. BOLT	2	

-19	AN815--D		. . UNION		
-20	AN6290--		. . GASKET		
-21	AN804D4		. . TEE		
-22	AN6289D4		. . NUT		
-23	AN6291--		. . RING		
-24	AN6290--		. . GASKET		
-25	413360		. . VALVE ASSY, 1/4 Tube size three way (Pacific Div. Bendix		

FUSELAGE HYDRAULICS (Cont)

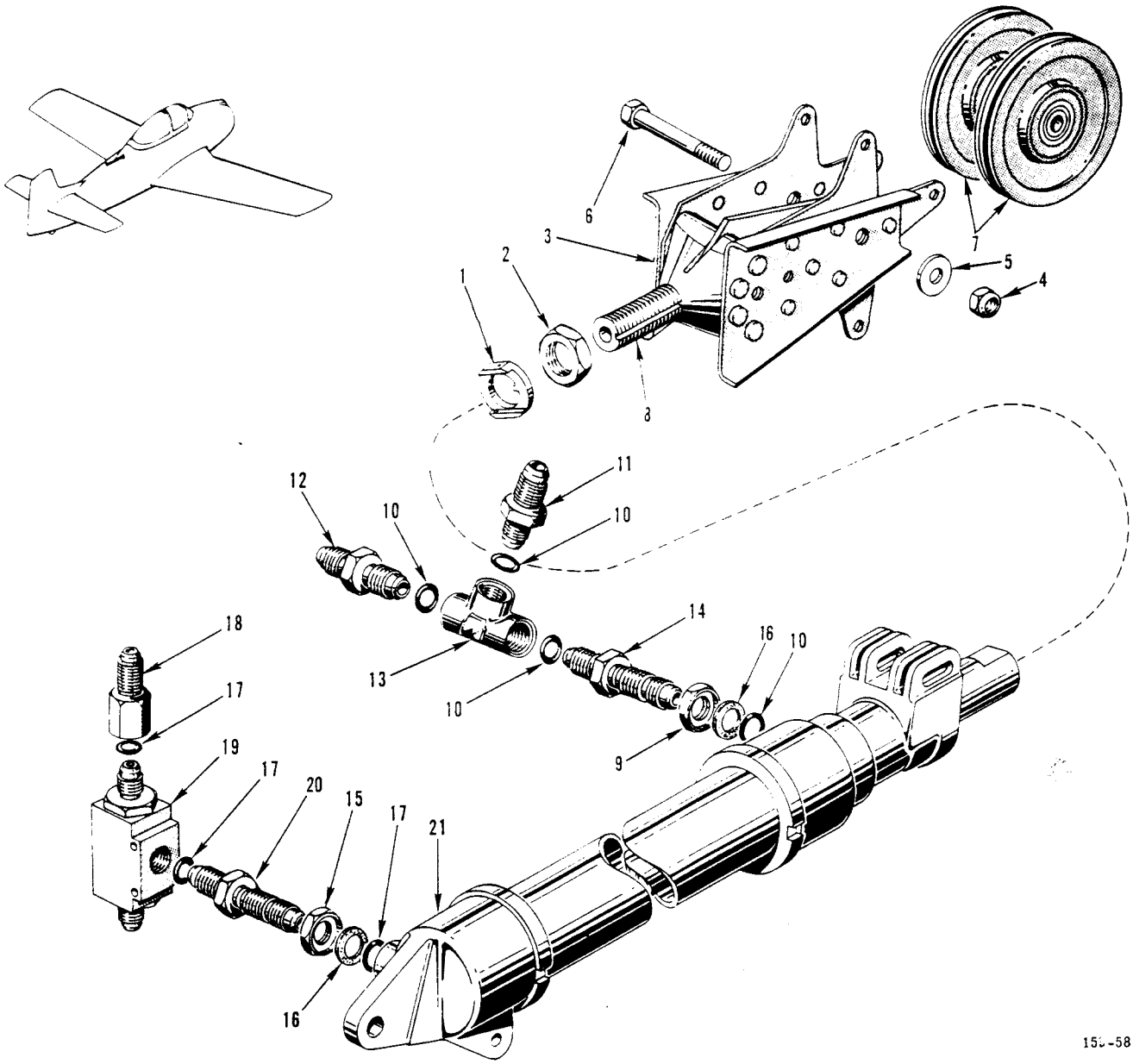


FIGURE 133 - HYDRAULIC CANOPY OPERATING CYLINDER ASSEMBLY COMPLETE

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
133	158-58635	CYLINDER ASSEMBLY, Hydraulic canopy operating complete (see figure 134 for next assembly)	Ref	
-1	158-58442-9	. WASHER, Hydraulic rod end lock	1	
-2	AN7-10A	. NUT, Check (North American	1	
-3	158-31827	. BRACKET ASSY, Cockpit enclosure actuating cylinder pulley	1	
-4	AN960-428	. . NUT	1	
-5	AN960-416	. . WASHER	1	
-6	AN4-16A	. . BOLT	1	
-7	AN210-4A	. . PULLEY	2	
-8	158-31828	. . ADAPTER, Cockpit enclosure actuating cylinder	1	
-9	AN6289D6	. NUT	1	
-10	AN6290-6	. GASKET	1	
-11	AN818-12D	. REDUCER	1	
-12	AN816-6D	. UNION	1	
-13	AN926-6D	. TEE	1	
-14	AN832-6D	. UNION	1	
-15	AN6289D6	. NUT	1	
-16	AN6291-6	. RING	2	
-17	AN6290-6	. GASKET	3	
-18	158-58421	. FITTING, Hydraulic canopy cylinder shuttle valve	1	
-19	AN6209-6	. VALVE, Hyd shuttle tube fitting outlet (Hydro-Aire 1416)	1	
-20	AN832-6D	. UNION	1	
-21	158-58035	. CYLINDER ASSEMBLY, Hydraulic canopy operating (for a list of detail parts refer to AN 01-60CK2)	1	

FUSELAGE HYDRAULICS (Cont)

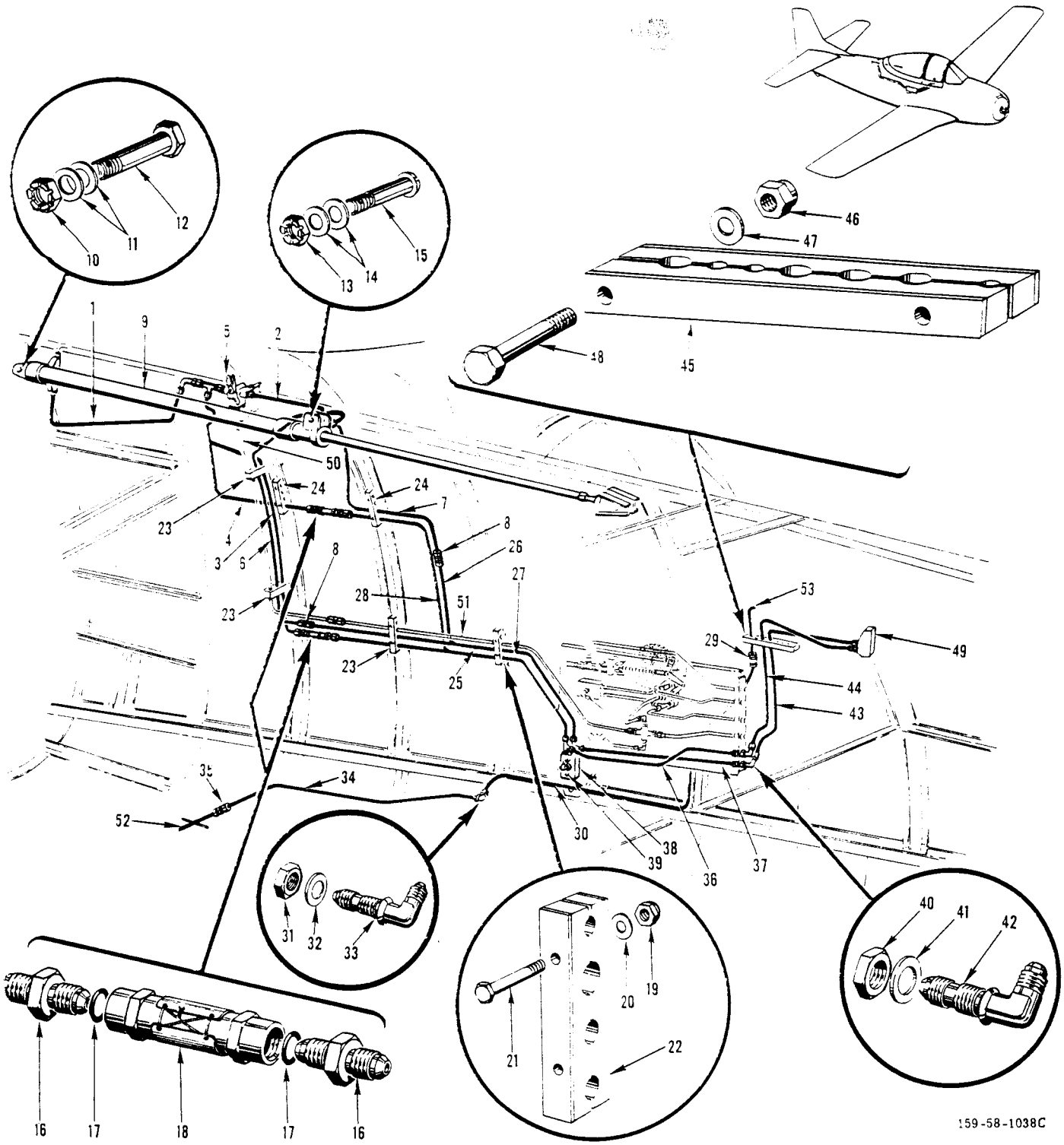


FIGURE 134 - HYDRAULIC CANOPY SYSTEM

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
134		HYDRAULIC CANOPY SYSTEM		
	159-58011	. HYDRAULIC EQUIP. INSTL, Fus sta 169 to sta 238 3/8 . . . . . (see figure 93 for next assembly	NP	
-1	159-58811-1	. . LINE ASSEMBLY, Hydraulic canopy open from tee on by-pass valve to shuttle valve on canopy cylinder	1	
-2	159-58811-37	. . LINE ASSEMBLY, Hydraulic canopy close from tee on canopy cylinder to -5° elbow on by-pass valve	1	
-3	159-58811-39	. . LINE ASSEMBLY, Hydraulic canopy open from union sta 213. . to tee on by-pass valve	1	4-268

FUSELAGE HYDRAULICS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
134-4	171-58811-13	. .	LINE ASSEMBLY, Hydraulic canopy open restrictor sta 214 LH to female tee on by-pass valve	1	269-
-5	159-58053	. .	VALVE ASSY, Hydraulic canopy complete by-pass (see fig. 129 for breakdown and attaching parts)	1	4-269
	159-58053-3	. .	VALVE ASSY, Hydraulic canopy complete by-pass (see fig. 129 for breakdown and attaching parts)	1	269-
-6	159-58811-35	. .	LINE ASSEMBLY, Hydraulic canopy close from union station 213 to tee on canopy cylinder	1	4-269
-7	171-58811-17	. .	LINE ASSEMBLY, Hydraulic canopy close union sta 203 LH to tee on canopy cylinder	1	269-
-8	AN815-6D	. .	UNION	1	
-9	159-58035	. .	CYLINDER ASSEMBLY, Hydraulic canopy complete operating (see figure 133 for detail breakdown)	1	
	ATTACHING PARTS				
-10	AN310-7	. .	NUT	1	
-11	AN960-716	. .	WASHER	2	
-12	AN7-10	. .	BOLT	1	
-13	AN320--	. .	NUT	1	
-14	AN960D416	. .	WASHER	1	
-15	AN24-20	. .	BOLT	1	
	---*---				
-16	AN815-6D	. .	UNION	2	
-17	AN6290-6	. .	GASKET	1	
-18	171-23-15	. .	VALVE ASSY, Hyd one-way restrictor (for a list of detail parts refer to AN 03-300X- supersedes 171-58811-23)	1	
-19	AN365-1032	. .	NUT	1	
-20	AN960-10	. .	WASHER	1	
-21	AN3-13A	. .	BOLT	1	
-22	159-58324	. .	BLOCK ASSY, Hydraulic canopy lines fus sta 217 & 16	1	
-23	159-58324	. .	BLOCK ASSY, Hydraulic canopy lines fus sta 217 & 16	1	--269
-24	159-58324	. .	BLOCK ASSY, Hydraulic canopy lines fus sta 217 & 16	1	269-
-25	159-58811-33	. .	LINE ASSY, Hydraulic canopy close from tee on thermal relief valve to union sta 217	1	--269
-26	171-58811-7	. .	LINE ASSY, Hydraulic canopy close female tee on thermal relief valve to union sta 203 LH	1	269-
-27	159-58811-31	. .	LINE ASSY, Hydraulic canopy open from tee on thermal relief valve to union station 217	1	--269
-28	171-58811-9	. .	LINE ASSY, Hydraulic canopy open female tee on thermal relief valve to restrictor sta 213 LH	1	269-
-29	AN815--D	. .	UNION	1	269-
-30	171-58811-25	. .	LINE ASSY, Hydraulic overboard vent drain union fus sta 175 to elbow fus sta 197.375	1	269-
-31	AN924-4D	. .	NUT	1	269-
-32	AN960D716	. .	WASHER	1	269-
-33	AN833--D	. .	ELBOW	1	269-
-34	171-58811-27	. .	LINE ASSY, Hydraulic overboard vent drain elbow fuselage station 197.375 to overboard tube fuselage station 222 3/4	1	269-
-35	AN919-6D	. .	REDUCER	1	269-
	No Number	.	HYDRAULIC PANEL CANOPY SYSTEM (see fig. 135 for next assy)	NP	
-36	159-58811-29	. .	LINE ASSEMBLY, Hydraulic canopy open from union on forward edge of panel to tee on thermal relief valve	1	
-37	159-58811-27	. .	LINE ASSEMBLY, Hydraulic canopy close from union on fwd edge of panel to tee on thermal relief valve	1	
-38	159-58041	. .	VALVE ASSEMBLY, Hydraulic complete thermal relief (see figure 123 for detail breakdown)	1	
	ATTACHING PARTS				
-39	AN3-13A	. .	BOLT	2	
	---*---				
-40	AN924-6D	. .	NUT	2	
-41	AN960D916	. .	WASHER	2	
-42	AN833-6D	. .	ELBOW	2	
	159-58019	.	HYDRAULIC EQUIPMENT INSTL, Fuselage mating sta 49.5 to 238 7/8 (see figure 50 for next assembly)	NP	
-43	159-58817-3	. .	LINE ASSY, Hydraulic fuselage sta 173 bulkhead union to fuselage sta 163 canted angle 90° bulkhead elbow canopy closed	1	
-44	159-58817-5	. .	LINE ASSY, Hydraulic fuselage sta 173 bulkhead union to fuselage station 163 canted angle 90° bulkhead elbow canopy open	1	
-45	159-58403	. .	SUPPORT ASSY, Hydraulic LH fuselage sta 168 lines	1	4-269
	171-58252	. .	SUPPORT ASSY, Hydraulic LH fuselage sta 168 lines	1	269-
-46	AN365-1032	. .	NUT	2	
-47	AN960D10	. .	WASHER	2	
-48	AN3-12A	. .	BOLT	2	
-49	159-58045		VALVE ASSY, Hydraulic canopy complete control (see fig. 78)	Ref	
-50	159-58811-43		LINE ASSY, Hydraulic system return from 90° elbow on top of by-pass valve to union station 213 (see figure 120)	Ref	
-51	159-58811-23		LINE ASSY, Hydraulic system return from union sta 213 to union station 189 (see figure 120)	Ref	
-52	171-58251		TUBE ASSY, Hyd canopy emer air overboard vent (see fig. 84)	Ref	
-53	171-58811-23		LINE ASSY, Hyd overboard vent drain emer air control valve to union fus sta 175 (see figure 136)	Ref	

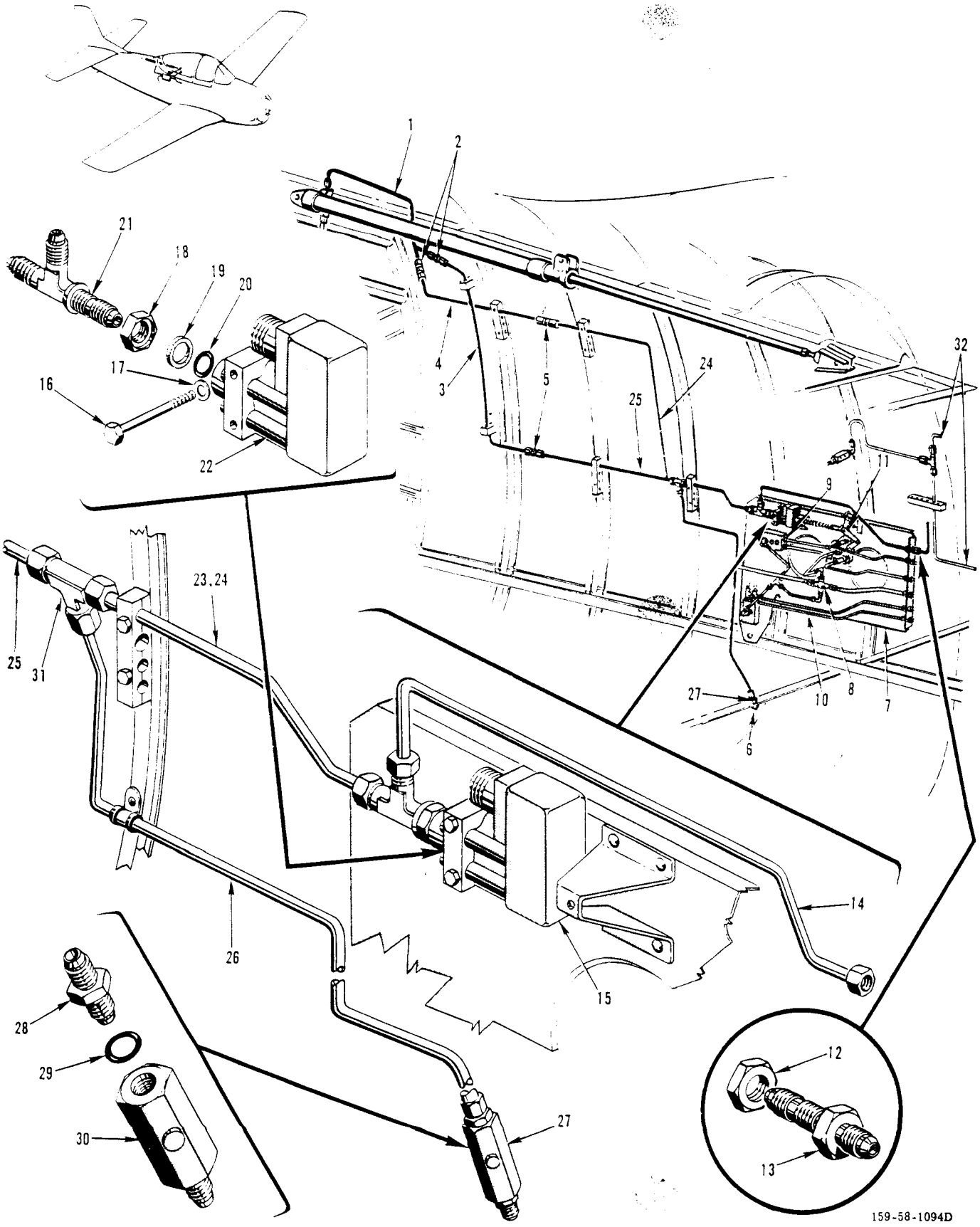


FIGURE 135 - EMERGENCY CANOPY SYSTEM

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
135			EMERGENCY CANOPY SYSTEM	AR	
	159-68011	.	HYDRAULIC EQUIPMENT INSTALLATION, Fuselage sta 168 to sta 238 3/8 (see fig. 13 for next assy and fig. 120, 134 and 136 for additional breakdown)	NP	
-1	159-68811-51	. .	LINE ASSEMBLY, Hydraulic canopy air from reducer station 220 to shuttle valve on canopy cylinder	1	
-2	AN910-6D	. .	REDUCER	1	
-3	159-68811-5	. .	LINE ASSY, Canopy air union station 219 to shuttle valve	1	--268
-4	171-68811-15	. .	LINE ASSY, Hydraulic canopy air reducer station 221 LH to union station 219 LH	1	269-
-5	AN815-6D	. .	UNION	1	
-6	AN960-716	. .	WSHR	1	--268
-7	159-68062	* . .	PANEL ASSEMBLY, Hydraulic system fuselage station 177.6 to 193.2 complete	1	--140
	159-68062-5	. .	PANEL ASSEMBLY, Hydraulic system fuselage station 177.6 to 193.2 complete	1	141-
-8	No Number	. . .	HYDRAULIC PANEL RETURN EQUIPMENT (see figure 120 for additional breakdown	NP	
-9	No Number	. . .	HYDRAULIC PANEL WING FLAP EQUIPMENT (see figure 121 for additional breakdown	NP	
-10	No Number	. . .	HYDRAULIC PANEL CANOPY SYSTEM (see figure 134 for additional breakdown	NP	
-11	No Number	. . .	HYDRAULIC PANEL WING FLAP EV-PACS EQUIPMENT (see figure 136 for additional breakdown	NP	
-12	AN924-4D	. . .	NUT	1	
-13	AN938-4D	. . .	SWITCH	1	
-14	159-68811-59	. . .	LINE ASSEMBLY, Hydraulic emergency air canopy pressure switch to union on forward edge of panel	1	--141
	171-68811-71	. . .	LINE ASSEMBLY, Hydraulic canopy air tee on pressure switch station 191 to union on forward edge of panel	1	141-
-15	171-68071	. . .	SWITCH ASSEMBLY, Hydraulic emergency air canopy complete pressure	1	
	ATTACHING PARTS				
-16	AN3-21A	. . .	BOLT	2	
-17	MWLR113-2--251	. . .	WASHER, Plain (Worth American	2	
	---*---				
-18	AN6281D4	. . . .	NUT	1	
-19	AN6291--	. . . .	BODY	1	
-20	AN6290--	. . . .	GASKET	1	
-21	AN814-4	. . . .	TEE	1	
-22	1-838-2	. . . .	SWITCH ASSY, Press. 7+ PSI (Wm. F. Whittaker) (supersedes Whittaker No. 13800-2 which may be used interchangeably until stock is exhausted) (Hydraulic Research No. 10800-1 may be substituted)	1	
-23	159-68811-63	. .	LINE ASSEMBLY, Canopy air tee on pressure switch to tee fuselage station 199	1	--268
-24	171-68811-3	. .	LINE ASSEMBLY, Hydraulic canopy air tee station 200 LH to reducer station 221 LH	1	269-
-25	159-68811-61	. .	LINE ASSEMBLY, Canopy air tee sta 199 to union sta 213	1	--268
-26	159-68811-69	. .	LINE ASSEMBLY, Canopy air tee station 199 to union in bleeder valve station 198	1	--268
-27	159-68072	. .	VALVE ASSEMBLY, Hydraulic emergency air canopy complete bleeder vent	1	--268
-28	AN815-4D	. . .	UNION	1	--268
-29	AN6290-4	. . .	GASKET	1	--268
-30	MS840119	. . .	VALVE ASSEMBLY, Vent, check bleeder 1/4" "AN" tube (Walter Kidde)	1	--268
-31	AN814-4	. .	TEE	1	--268
-32	For continuation of these lines see figure 136			Ref	

NOTE: * 159-68062-3 when T. O. 01-60FGA-22 is incorporated. Is equivalent to 159-68062. 159-68062 should be used for future procurement.

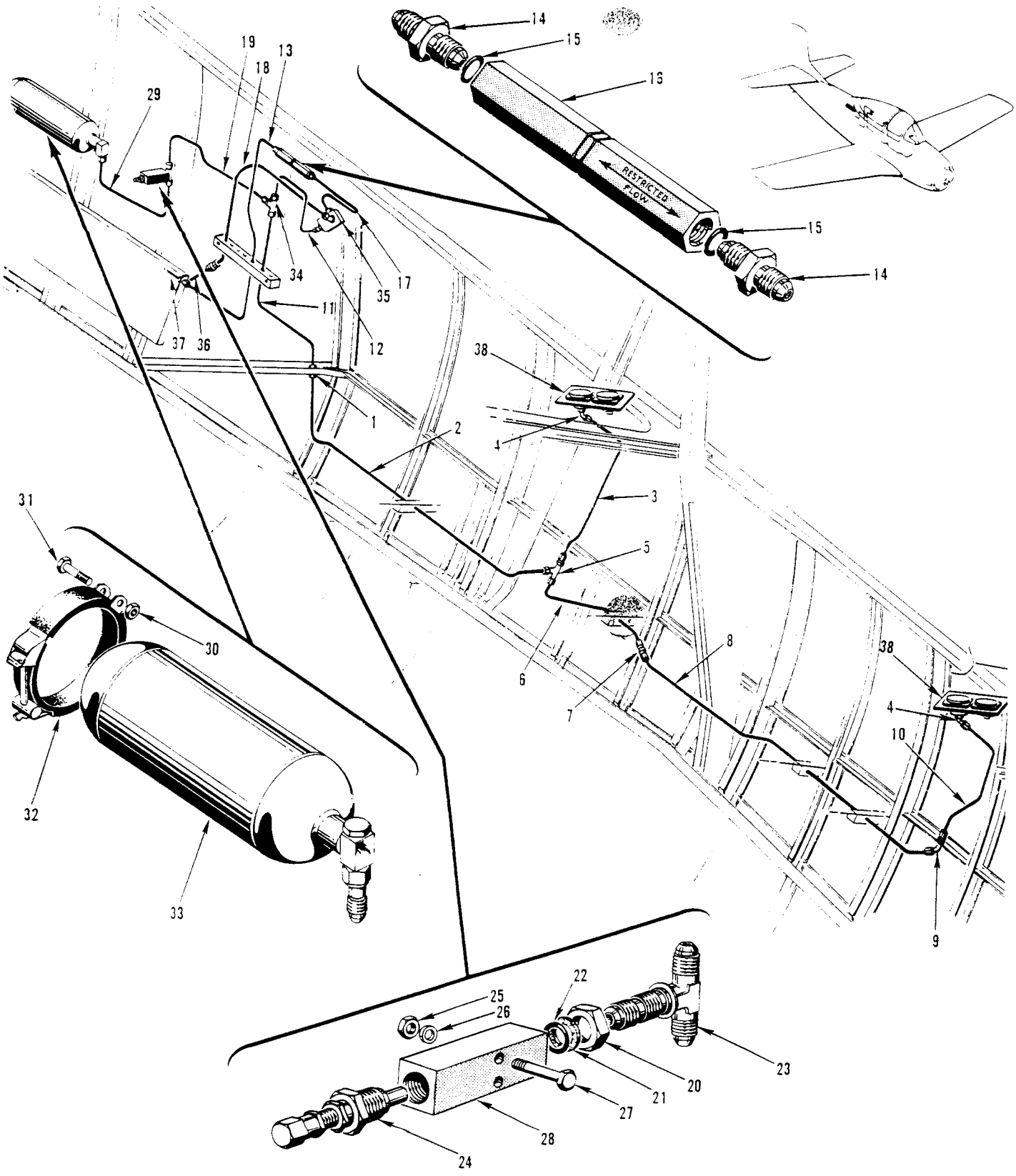


FIGURE 136 - EMERGENCY CANOPY SYSTEM (Cont.)

FUSELAGE HYDRAULICS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
136		EMERGENCY CANOPY SYSTEM (Continued)		
	159-58017	. HYDRAULIC EQUIPMENT INSTL, Fuselage sta -9.5 to sta 168 . . . LH side (see figure 62 for next assy and figure 116, 119, 120, 130, 131, 137, 141 and 142 for additional breakdown)	NP	
-1	AN832--D	. . UNION	1	
	AN924--D	. . NUT	1	
	AN960D716	. . WASHER	1	
-2	159-58817-41	. . LINE ASSEMBLY, Hydraulic fuselage station 157 tee to . . . fuselage station 124 tee air pressure	1	
-3	159-58817-53	. . LINE ASSEMBLY, Hydraulic fuselage station 124 tee to . . . rear cockpit pressure gage emergency canopy open	1	
-4	AN815--D	. . UNION	2	
	AN6289D4	. . NUT	2	
	AN6291--4	. . RING	2	
	AN6290--4	. . GASKET	2	
-5	AN834D4	. . TEE	1	
	AN924--D	. . NUT	1	
	AN960D716	. . WASHER	1	
-6	159-58817-55	. . LINE ASSEMBLY, Hydraulic fuselage sta 124 tee to fus sta . 94 union emergency canopy open	1	--268
	171-58811-29	. . LINE ASSEMBLY, Hydraulic fuselage sta 124 tee to fus sta . 94 union emergency canopy open	1	269-
-7	AN815--D	. . UNION	1	
-8	159-58817-57	. . LINE ASSEMBLY, Hydraulic fuselage sta 94 union to . . . . fus sta 71 elbow emergency canopy open	1	--268
	171-58811-31	. . LINE ASSEMBLY, Hydraulic fuselage sta 94 union to . . . . fus sta 71 elbow emergency canopy open	1	269-
-9	AN837--D	. . ELBOW	1	
	AN924--D	. . NUT	1	
	AN960D716	. . WASHER	2	
-10	159-58817-59	. . LINE ASSY, Hydraulic fus sta 71 elbow to elbow on . . . . emergency air pressure gage	1	
	159-58019	. HYDRAULIC EQUIPMENT INSTALLATION, Fuselage mating station . . -9.5 to 238 1 2 (see fig. 61 for next assy & fig. 119, 120, 131, and 137 for additional breakdown)	NP	
-11	159-58817-39	. . LINE ASSEMBLY, Hydraulic fuselage sta 171 tee to fus sta . 173 bulkhead union air pressure	1	
-12	159-58810-43	. . LINE ASSEMBLY, Hyd air pressure from control valve to . . tee fuselage station 168 LH side	1	--268
	171-58811-21	. . LINE ASSEMBLY, Hydraulic air pressure emergency air . . . control valve to tee fuselage station 170	1	269-
-13	159-58817-13	. . LINE ASSEMBLY, Hydraulic fuselage sta 173 bulkhead union . to fuselage station 168 restrictor union air emergency canopy open	1	
-14	AN815--D	. . UNION	2	
-15	AN6290-4	. . GASKET	2	
-16	177-20-30	. . VALVE ASSY, Hyd two-way restrictor (for a list fo detail . parts refer to AN 03-30XM- supersedes 151-58015-11)	1	
-17	159-58817-37	. . LINE ASSEMBLY, Hydraulic fus sta 160 air valve to fus sta. 168 restrictor union air pressure	1	--268
	171-58811-19	. . LINE ASSEMBLY, Hydraulic air pressure emergency air . . . control valve to restrictor station 168	1	269-
-18	171-58811-23	. . LINE ASSEMBLY, Hydraulic overboard vent drain emer . . . . air control valve to union fuselage station 175 . .	1	269-
	159-58011	. HYD EQUIP. INSTL, Fus sta 168 to sta 238 7/8 (see fig. 83 . for next assy & fig. 120, 134, 135 for additional breakdown)	NP	
-19	159-58811-49	. . LINE ASSEMBLY, Hydraulic canopy air from tee sta 171 to . air fill valve assembly station 178	1	
-20	AN6289D4	. . NUT	1	
-21	AN6291-4	. . RING	1	
-22	AN6290-4	. . GASKET	1	
-23	AN834-4D	. . TEE	1	
-24	AN6287-1	. . VALVE ASSY, Air high pressure 3/4 hex (Aeroquip No. . . . ARC9894)	1	
-25	AN365-1032	. . NUT	2	
-26	NAS43DD3-16	. . SPACER, Bolt	2	
-27	AN3-14A	. . BOLT	2	
-28	159-58340	. . BOSS, Hydraulic air emergency bottle refill valve	1	
-29	159-58811-53	. . LINE ASSEMBLY, Canopy air bottle sta 181 to tee on refill. valve fus sta 178	1	
-30	AN365-1032	. . NUT	4	
	NAS43DD3-48	. . SPACER, Screw and bolt	4	
-31	AN3-12A	. . BOLT	4	
-32	22870	. . SUPPORT ASSY, 365 Series double leg padded (Marman Prod.).	2	
-33	870149	. . CYLINDER ASSY, 96 cubic inch non-shattering with self- . . opening air valve 1/4" "AN" outlet (Walter Kidde)	1	
-34	AN824-4D	. . TEE	1	
-35	159-58063	VALVE ASSY, Hydraulic air canopy emergency (see figure 78) . . .	Ref	
-36	171-58811-25	LINE ASSY, Hydraulic overboard vent drain union fus sta 175 . . to elbow fus sta 197.375 (see figure 134)	Ref	
-37	For continuation of these lines see figure 135		Ref	
-38	See figure 104 for panel assemblies		Ref	

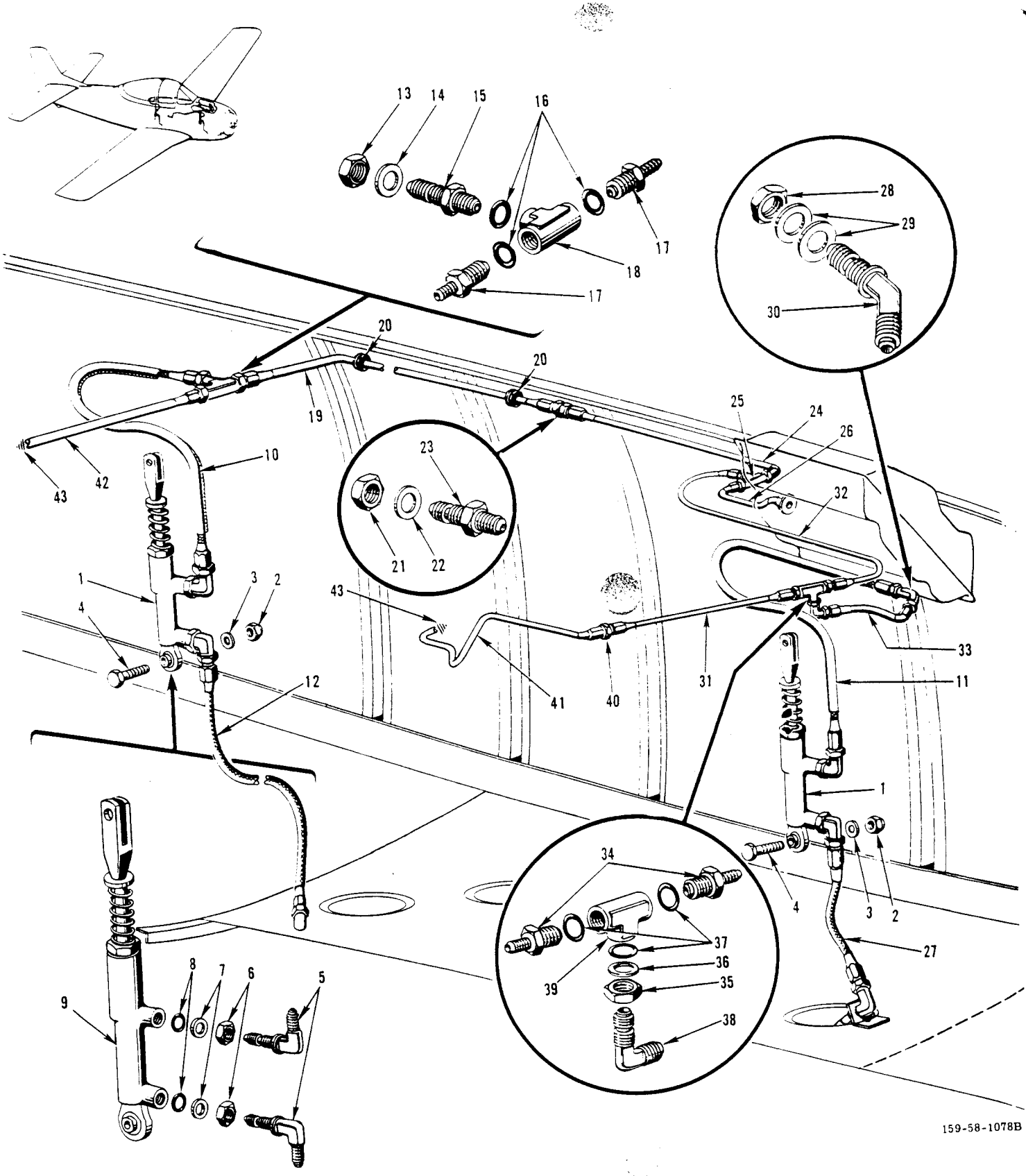


FIGURE 137 - FUSELAGE HYDRAULIC BRAKE EQUIPMENT LEFT SIDE

Revised 27 February 1953

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
137		FUSELAGE HYDRAULIC BRAKE EQUIPMENT LEFT SIDE		
	159-58017	. HYDRAULIC EQUIPMENT INSTALLATION, Fuselage sta +9.5 to . . . sta 168 LH side (see figure 62 for next assy & fig. 116, 119,120,130,131,135,-1 and 1-2 for additional breakdown)	NP	
-1	159-58036	. . CYLINDER ASSEMBLY, Hydraulic complete master brake	2	
	ATTACHING PARTS			
-2	AN365--428	. . NUT	2	
-3	AN960D416	. . WASHER	2	
-4	AN174--10A	. . BOLT	2	
	---*---			
-5	AN833--4D	. . . ELBOW	2	
-6	AN6289D-	. . . NUT	2	
-7	AN6291--4	. . . RING	2	
-8	AN6290--4	. . . GASKET	2	
-9	2115-6	. . . CYLINDER ASSEMBLY, Hydraulic master brake (Gladden Products) (for a list of detail parts refer to AN 03-25GBB2,	1	
-10	2H3---28(AN6271)	. . HOSE ASSEMBLY, Plastic covered (North American) . . . . . (supersedes 159-58-10-2 for future procurement only)	1	
	159-58-10-2	. . HOSE ASSY, Hyd brake master cyl supply complete (superseded by 2H3---28 (AN6271) for future procurement)	1	
	AN6271---28	. . . HOSE ASSEMBLY	1	
-11	2H3---24 (AN6271)	. . HOSE ASSY, Plastic covered (North American) (supersedes 159-58410-1 for future procurement only)	1	
	159-58-10-1	. . HOSE ASSY, Hyd brake master cyl supply complete (superseded by 2H3---24 (AN6271) for future procurement)	1	
	AN6271---24	. . . HOSE ASSEMBLY	1	
-12	AN6271---18	. . HOSE ASSEMBLY	1	
-13	AN924---D	. . NUT	1	
-14	AN960D716	. . WASHER	1	
-15	AN832--D	. . UNION	1	
-16	AN6290--4	. . GASKET	3	
-17	AN919-6D	. . REDUCER	1	
-18	AN926--D	. . TEE	1	
-19	159-58810-9	. . LINE ASSEMBLY, Hydraulic brake supply union fuselage station 87 7/8 to tee fuselage station 108	1	
-20	AN931A6-16	. . GROMMET	2	
-21	AN924--6D	. . NUT	1	
-22	SWIAL37-30-64	. . WASHER, Plain (North American)	1	
-23	AN832-6D	. . UNION	1	
-24	159-58810-7	. . LINE ASSEMBLY, Hydraulic brake supply reservoir tee to union fuselage station 87 7/8	1	
-25	AN82--6D	. . TEE	1	
-26	159-58810-33	. . LINE ASSY, Brake supply hydraulic reservoir to tee . . . . fuselage station 60	1	
-27	AN6271--4-16	. . HOSE ASSEMBLY	1	
-28	AN924--D	. . NUT	1	
-29	AN960D716	. . WASHER	2	
-30	AN837--4D	. . ELBOW	1	
	159-58021	. HYDRAULIC EQUIPMENT INSTALLATION, Fuselage mating floor . . . to side panel (see figure 51 for next assy & figure 139 for additional breakdown)	NP	
-31	159-58810-35	. . LINE ASSEMBLY, Hydraulic brake supply tee to union RH side	1	
-32	159-58810-5	. . LINE ASSEMBLY, Hydraulic brake supply reservoir tee to . . reducer fuselage station 52 RH	1	
-33	159-58810-3	. . LINE ASSEMBLY, Hydraulic brake supply reservoir tee to . . bulkhead elbow fuselage station 53	1	
-34	AN919-6D	. . REDUCER	2	
-35	AN6289D4	. . NUT	1	
-36	AN6291-4	. . RING	1	
-37	AN6290-4	. . GASKET	3	
-38	AN833-4D	. . ELBOW	1	
-39	AN926-4D	. . TEE	1	
-40	AN815-6D	. . UNION	1	
-41	159-58810-39	. . LINE ASSEMBLY, Hydraulic brake pressure union at . . . . . firewall to RH brake cylinder hose elbow	1	
-42	159-58810-11	. . LINE ASSEMBLY, Hydraulic brake supply union BL 12 LH to . union BL 13 RH sta 108	1	4-693
	159-58810-75	. . LINE ASSY, Hyd brake supply union BL 12 LH to union BL 13. RH station 108	1	694-
-43	For continuation of these lines see figure 138		Ref	

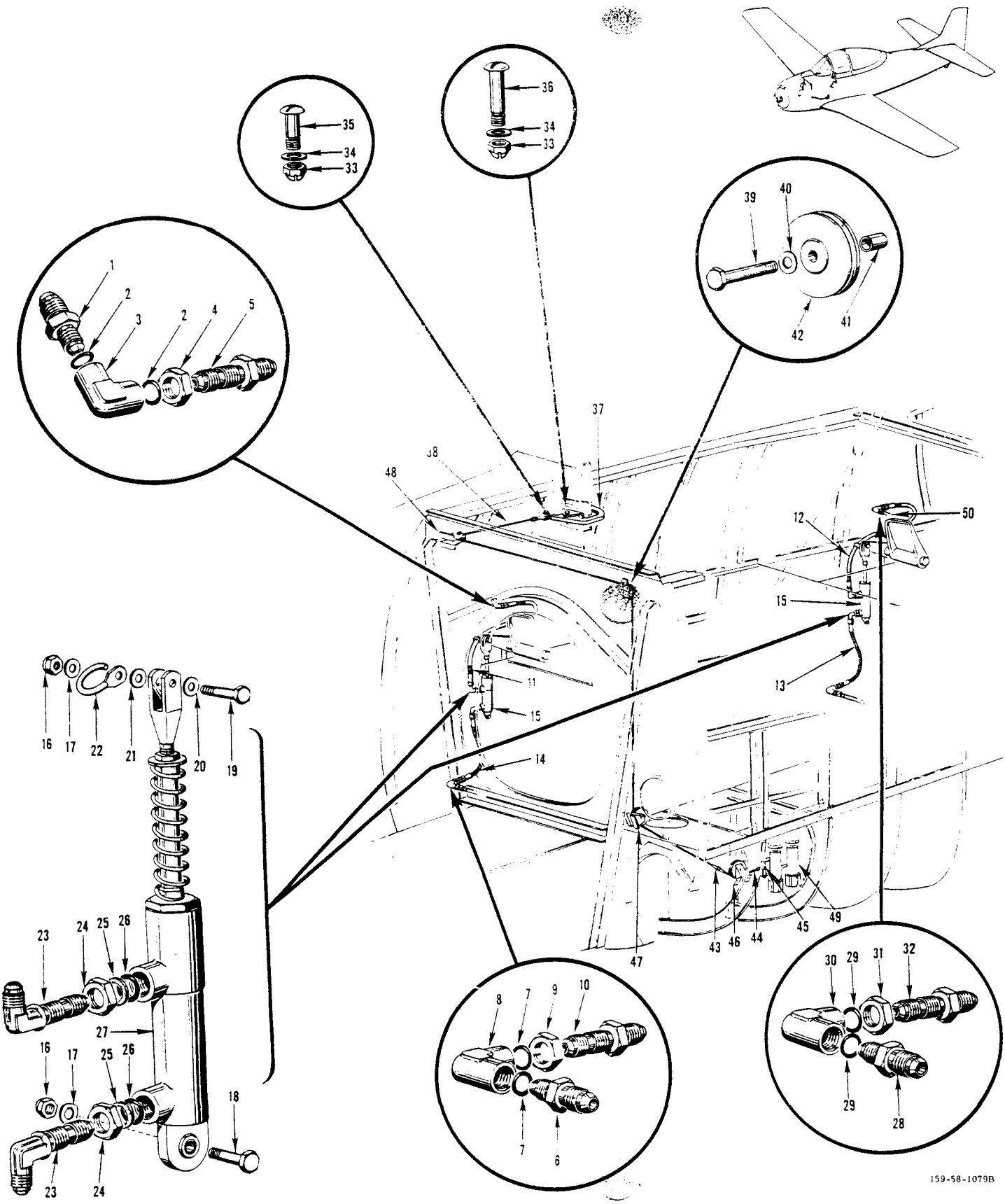


FIGURE 138 - FUSELAGE HYDRAULIC BRAKE RIGHT SIDE AND COMPLETE PARKING BRAKE EQUIPMENT

FUSELAGE HYDRAULICS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
138		FUSELAGE HYDRAULIC BRAKE RIGHT SIDE AND COMPLETE PARKING BRAKE EQUIPMENT		
	159-58010	. HYDRAULIC EQUIPMENT INSTALLATION, Fuselage sta -9.5 to sta 168 RH (see figure 58 for next assembly)	NP	
-1	AN919-6D	. . REDUCER	1	
-2	AN6290-4	. . GASKET	2	
-3	AN927-4D	. . ELBOW	1	
-4	AN924-4D	. . NUT	1	
-5	AN832-4D	. . UNION	1	
-6	AN919-6D	. . REDUCER	1	
-7	AN6290-4	. . GASKET	2	
-8	AN927-4D	. . ELBOW	1	
-9	AN924-4D	. . NUT	1	
-10	AN832-4D	. . UNION	1	
-11	3H3-4-24(AN6271)	. . HOSE ASSY, Plastic covered (North American) (supersedes 159-58410-1 for future procurement only)	1	
	159-58410-1	. . HOSE ASSY, Hyd brake master cyl supply complete (superseded by 3H3-4-24 (AN6271) for future procurement)	1	
	AN6271-4-24	. . . HOSE ASSEMBLY	1	
	159-58410-3	. . . COVER, Master brake cylinder hose	1	
-12	3H3-4-28(AN6271)	. . HOSE ASSY, Plastic covered (North American) (supersedes 159-58410-2 for future procurement only)	1	
	159-58410-2	. . HOSE ASSY, Hyd brake master cyl supply complete (superseded by 3H3-4-28 (AN6271) for future procurement)	1	
	AN6271-4-28	. . . HOSE ASSEMBLY	1	
	159-58410-4	. . . COVER, Master brake cylinder hose	1	
-13	AN6271-4-16	. . HOSE ASSEMBLY	1	
-14	AN6271-4-16	. . HOSE ASSEMBLY	1	
-15	159-58036	. . CYLINDER ASSEMBLY, Hydraulic complete master brake	2	
	ATTACHING PARTS			
-16	AN365-428	. . NUT	4	
-17	AN960D416	. . WASHER	4	
-18	AN17-10A	. . BOLT (lower)	2	
-19	AN17-13A	. . BOLT (upper forward)	1	
	AN17-12A	. . BOLT (upper aft)	1	
-20	AN960D416	. . WASHER (upper forward)	1	
-21	AN960-416	. . WASHER (upper forward)	1	
-22	159-58274	. . GUIDE, Hydraulic master brake cylinder hose	2	
	---*---			
-23	AN833-4D	. . . ELBOW	2	
-24	AN6289D4	. . . NUT	2	
-25	AN6291-4	. . . RING	2	
-26	AN6290-4	. . . GASKET	2	
-27	3115-6	. . . CYLINDER ASSEMBLY, Hydraulic master brake (Gladden Products) (for a list of detail parts refer to AN 03-25CE2)	1	
-28	AN919-6D	. . REDUCER	1	
-29	AN6290-4	. . GASKET	2	
-30	AN927-4D	. . ELBOW	1	
-31	AN924-4D	. . NUT	1	
-32	AN832-4D	. . UNION	1	
-33	AN310-3	. . NUT	2	
-34	AN960D10	. . WASHER	2	
-35	AN23-9	. . BOLT	1	
-36	AN23-18	. . BOLT	1	
-37	159-58255	. . HANDLE ASSEMBLY, Hydraulic parking brake control	1	
	4B19B3-016	. . . BUSHING, Press fit plain (North American)	1	
	4B19B3-004	. . . BUSHING, Press fit plain (North American)	1	
	159-58014	. HYDRAULIC EQUIPMENT INSTALLATION, Fuselage sta -9.5 firewall (see figure 62 for next assy and Fig. 121, 122, 141, 142 for additional breakdown)	NP	
-38	159-58261	. . CABLE ASSY, Hydraulic parking brake valve control	1	4-40
	159-58423	. . CABLE ASSY, Hydraulic parking brake valve control	1	41-
-39	AN3-14A	. . BOLT	1	
-40	AN960-10	. . WASHER	1	
-41	4S3-10-18	. . SPACER, Bolt (North American)	1	
-42	AN210-2A	. . PULLEY	1	
	159-58008	. HYDRAULIC EQUIPMENT INSTALLATION, LH lower fuselage sta 49 1/2 to sta 97.5 (see figure 62 for next assy & 121, 124, 130, 139, and 142 for additional breakdown)	NP	4-140
	159-58005	. HYDRAULIC EQUIPMENT INSTALLATION, LH lower fuselage sta 49 1/2 to sta 97.5 (see figure 62 for next assy & 122, 124, 130, 139 and 142 for additional breakdown)	NP	141-
-43	AN155-8S	. . BARREL	1	
-44	159-58269	. . CABLE ASSY, Hydraulic parking brake valve control	1	
-45	AN393-7	. . PIN	1	
-46	159-58334	BRACKET ASSY, Hyd parking brake pulley sta 68 3/4 (figure 140)	Ref	
-47	159-58422	BRACKET ASSY, Hydraulic parking brake valve control station 49 1/2 lower pulley (see figure 65)	Ref	
-48	159-58258	BRACKET ASSY, Hydraulic parking brake valve control station 49 1/2 lower pulley (see figure 65)	Ref	
-49	159-58061	LOCK ASSEMBLY, Hydraulic valve and compensator parking brake (see figure 140)	Ref	
-50	For continuation of these lines see figure 137			

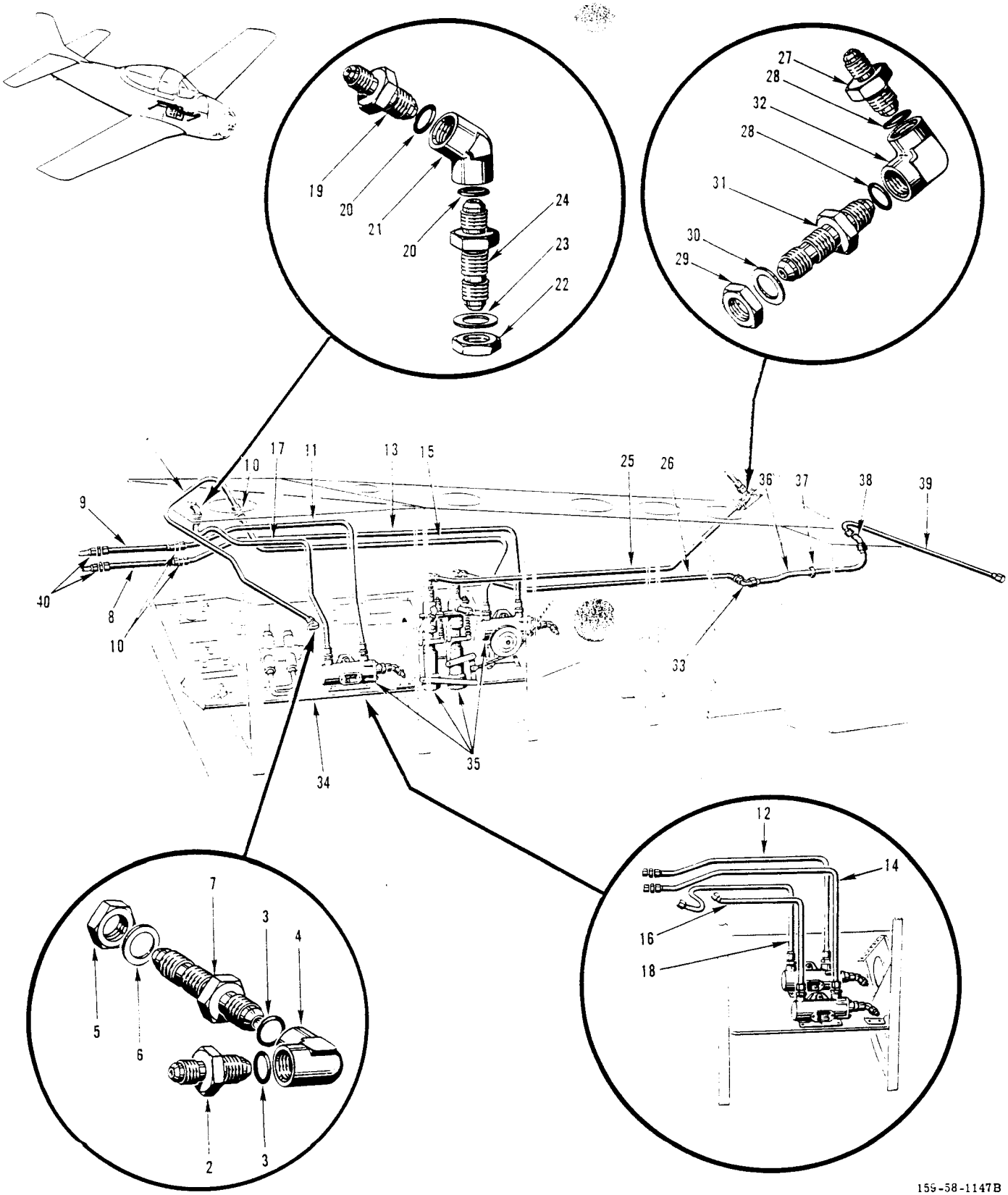


FIGURE 139 - FUSELAGE HYDRAULIC BRAKE EQUIPMENT LOWER

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
139		FUSELAGE HYDRAULIC BRAKE EQUIPMENT LOWER		
	159-58023	. HYDRAULIC EQUIPMENT INSTALLATION, Mating fuselage to wing . . (see figure 5 for next assembly)	NP	
-1	159-58810-15	. . LINE ASSY, Hyd brake press. elbow buttock line 12 1/2 . . LH to union buttock line 13 1/2 station 37 1/2	1	
-2	AN919-6D	. . REDUCER	1	
-3	AN6290-6	. . GASKET	2	
-4	AN927-6D	. . ELBOW	1	
-5	AN924-6D	. . NUT	1	
-6	AN960D916	. . WASHER	2	
-7	AN832-6D	. . UNION	1	
-8	159-58808-61	. . LINE ASSEMBLY, Hydraulic RH brake pressure from union . . station 94 to female tee station 100	1	
-9	159-58808-59	. . LINE ASSEMBLY, Hydraulic LH brake pressure from union . . station 94 to female tee station 100	1	
	159-58008	. HYDRAULIC EQUIPMENT INSTALLATION, LH lower fuselage sta . . . -3 1/2 to sta 97.5 (see fig. 62 for next assy)	NP	4-140
	159-58005	. HYDRAULIC EQUIPMENT INSTALLATION, LH lower fuselage sta . . . -3 1/2 to sta 97.5 (see figure 62 for next assy)	NP	141-
-10	AN816-6D	. . UNION	3	
-11	159-58809-37	. . LINE ASSEMBLY, Hydraulic LH brake pressure from LH . . . . transfer valve to union at station 37	1	4-140
-12	159-58816-35	. . LINE ASSEMBLY, RH brake press. transfer valve to union . .	1	141-396
	159-58816-67	. . LINE ASSEMBLY, RH brake press. transfer valve to union . .	1	397-
-13	159-58809-35	. . LINE ASSEMBLY, Hydraulic RH brake pressure from RH . . . . transfer valve to union at station 37	1	4-140
-14	159-58816-37	. . LINE ASSEMBLY, RH brake press. transfer valve to union . .	1	141-396
	159-58816-69	. . LINE ASSEMBLY, RH brake press. transfer valve to union . .	1	397-
-15	159-58809-31	. . LINE ASSEMBLY, Hydraulic co-pilot RH brake pressure . . . from elbow station 92 to RH transfer valve	1	4-140
-16	159-58816-49	. . LINE ASSEMBLY, RH brake pressure (rear cockpit . . . . . transfer valve to union	1	141-
-17	159-58809-33	. . LINE ASSEMBLY, Hydraulic co-pilot LH brake pressure . . . from elbow sta 92 to LH transfer valve	1	4-140
-18	159-58816-47	. . LINE ASSEMBLY, LH brake pressure (rear cockpit . . . . . transfer valve to -6° elbow	1	141-396
	159-58816-71	. . LINE ASSEMBLY, LH brake pressure (rear cockpit . . . . . transfer valve to -6° elbow	1	397-
-19	AN919-6D	. . REDUCER	1	
-20	AN6290-6	. . GASKET	2	
-21	AN927-6D	. . ELBOW	1	
-22	AN924-6D	. . NUT	1	
-23	AN960D916	. . WASHER	1	
-24	AN832-6D	. . UNION	1	
-25	159-58808-29	. . LINE ASSEMBLY, Hydraulic LH parking brake pressure from . elbow station 46 to brake compensator	1	
-26	159-58808-27	. . LINE ASSEMBLY, Hydraulic RH parking brake pressure from . elbow station 46 to brake compensator	1	
-27	AN919-6D	. . REDUCER	1	
-28	AN6290-6	. . GASKET	2	
-29	AN924-6D	. . NUT	1	
-30	AN960D916	. . WASHER	1	
-31	AN832-6D	. . UNION	1	
-32	AN927-6D	. . ELBOW	1	
-33	AN833-6D	. . ELBOW	1	
	AN924-6D	. . NUT	1	
	AN960D916	. . WASHER	1	
-34	159-58059	. . PANEL ASSEMBLY, Hydraulic LH lower fuselage sta 68.75 . . to 97.5 equipment (see figure 121 and 125)	1	21-140
	159-58059-3	. . PANEL ASSEMBLY, Hydraulic LH lower fuselage sta 68.75 . . to 97.5 equipment (see figure 121 and 125)	1	4-10
	159-58059-5	. . PANEL ASSEMBLY, Hydraulic LH lower fuselage sta 68.75 . . to 97.5 equipment (see figure 121 and 125)	1	11-20
	159-58069	. . PANEL ASSEMBLY, Hydraulic LH lower fuselage sta 68.75 . . to 97.5 equipment (see figure 122 and 126)	1	141-396
	159-58069-10	. . PANEL ASSEMBLY, Hydraulic LH lower fuselage sta 68.75 . . to 97.5 equipment (see figure 122 and 126)	1	397-523, 575-587
	159-58069-20	. . PANEL ASSEMBLY, Hydraulic LH lower fuselage sta 68.75 . . to 97.5 equipment (see figure 122 and 126)	1	524-574, 588-
-35	No Number	. . . HYDRAULIC PANEL BRAKE VALVES AND EQUIPMENT (see . . . . figure 140 for detail breakdown)	NP	
	159-58022	. HYDRAULIC EQUIPMENT INSTALLATION, Mating nose wheel to . . . side panel (see figure 51 for next assembly)	NP	
-36	159-58806-25	. . LINE ASSY, Hydraulic brake press. sta 57 1/2 elbow to . . sta 45 1/4 LH elbow	1	
-37	AN931A6-16	. . GROMMET	1	
	159-58006	. HYDRAULIC SYSTEM EQUIPMENT INSTALLATION, Nose wheel well . . (see figure 56 for next assembly)	NP	
-38	AN837-6D	. . ELBOW	1	
	AN924-6D	. . NUT	1	
	2W1AL38-30-64	. . WASHER, Plain (North American)	1	
	159-58021	. HYDRAULIC EQUIPMENT INSTALLATION, Fuselage mating floor to . side panel (see figure 51 for next assembly)	NP	
-39	159-58810-13	. . LINE ASSY, Hydraulic brake press. RH firewall buttock . . line 20 1/4 elbow to torque box sta 45 1/2 elbow	1	
-40	For continuation of these lines see figure 37		Ref	

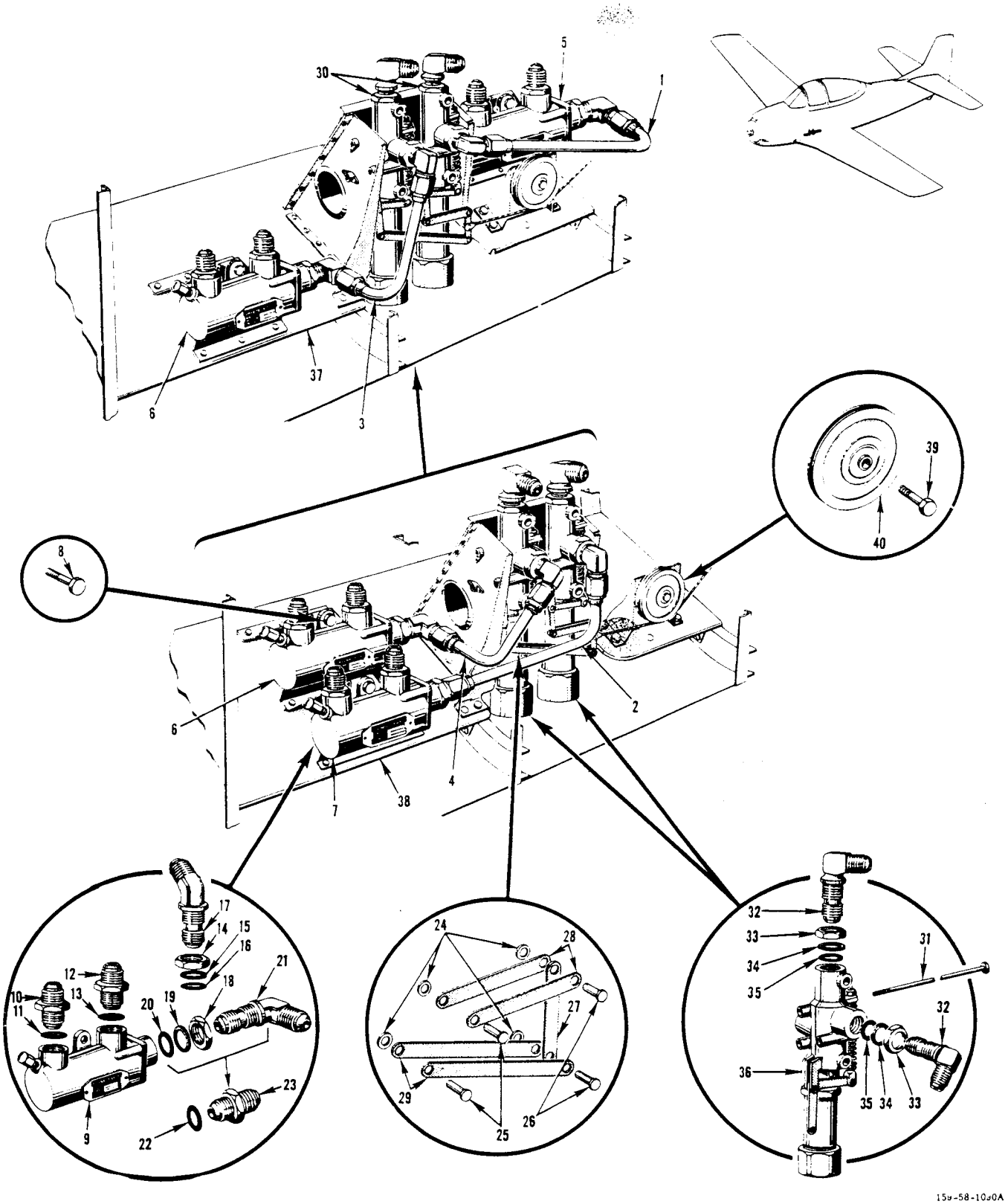


FIGURE 140 - HYDRAULIC PANEL BRAKE VALVES AND EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
140	No Number	HYDRAULIC PANEL BRAKE VALVES AND EQUIPMENT (see figure 139 for next assembly)	NP	
-1	159-58808-19	. LINE ASSEMBLY, Hydraulic RH brake pressure from RH brake transfer valve to parking brake valve	1	4-140
-2	159-58816-31	. LINE ASSEMBLY, RH brake pressure from RH brake transfer valve to parking brake valve	1	141-
-3	159-58808-17	. LINE ASSEMBLY, Hydraulic LH brake pressure from LH brake transfer valve to parking brake valve	1	4-140
-4	159-58816-29	. LINE ASSEMBLY, LH brake pressure from LH brake transfer valve to parking brake valve	1	141-
-5	159-58057-1	. VALVE ASSY, Hydraulic brake cylinder complete transfer	1	4-396
-6	159-58057-2	. VALVE ASSY, Hydraulic brake cylinder complete transfer	1	4-140, 397-
-7	159-58057-3	. VALVE ASSY, Hydraulic brake cylinder complete transfer	1	141-
	ATTACHING PARTS			
-8	AN3-6A	. BOLT	6	
	---*---			
-9	211543	. . VALVE ASSEMBLY, Hydraulic master brake cylinder transfer /Gladden Products	1	
-10	AN815-6D	. . UNION	1	
-11	AN6290-6	. . GASKET	1	
-12	AN815-6D	. . UNION	1	*,***
-13	AN6290-6	. . GASKET	1	*,***
-14	AN6289D6	. . NUT	1	**
-15	AN6291-6	. . RING	1	**
-16	AN6290-6	. . GASKET	1	**
-17	AN833-6D	. . ELBOW	1	**
-18	AN6289D6	. . NUT	1	*,**
-19	AN6291-6	. . RING	1	*,**
-20	AN6290-6	. . GASKET	1	*,**
-21	AN833-6D	. . ELBOW	1	*,**
-22	AN6291-6	. . GASKET	1	***
-23	AN815-6D	. . UNION	1	***
-24	AN960D10L	. WASHER	4	
-25	AN393-8	. PIN	2	
-26	AN393-7	. PIN	2	
-27	159-58262	. LEVER, Hydraulic parking brake valve control	1	
-28	159-58253	. LINK, Hydraulic parking brake valve control upper	2	
-29	159-58254	. LINK, Hydraulic parking brake valve control lower	2	
-30	159-58061	. LOCK ASSEMBLY, Hydraulic valve and compensator parking brake.	2	
	ATTACHING PARTS			
-31	AN3-5A	. BOLT	3	
	AN960D10	. WASHER	3	
	---*---			
-32	AN833-6D	. . ELBOW	2	
-33	AN6289D6	. . NUT	2	
-34	AN6291-6	. . RING	2	
-35	AN6290-6	. . GASKET	2	
-36	211551	. . VALVE ASSEMBLY, Hydraulic parking and compensator M80 /Gladden Products	1	
-37	159-58251	. PANEL ASSEMBLY, Hydraulic LH lower fuselage station 68.75 to station 97.5	1	11-140
	159-58251-13	. PANEL ASSEMBLY, Hydraulic LH lower fuselage station 68.75 to station 97.5	1	4-10
-38	159-58432	. PANEL ASSEMBLY, Hydraulic LH lower fuselage station 68.75 to station 97.5	1	141-
	159-58334	. . BRACKET ASSEMBLY, Hydraulic station 68 3/4 parking brake pulley	1	
-39	AN3-6A	. . . BOLT	1	
-40	AN210-2A	. . . PULLEY	1	

* Used on 159-58057-1
** Used on 159-58057-2
*** Used on 159-58057-3

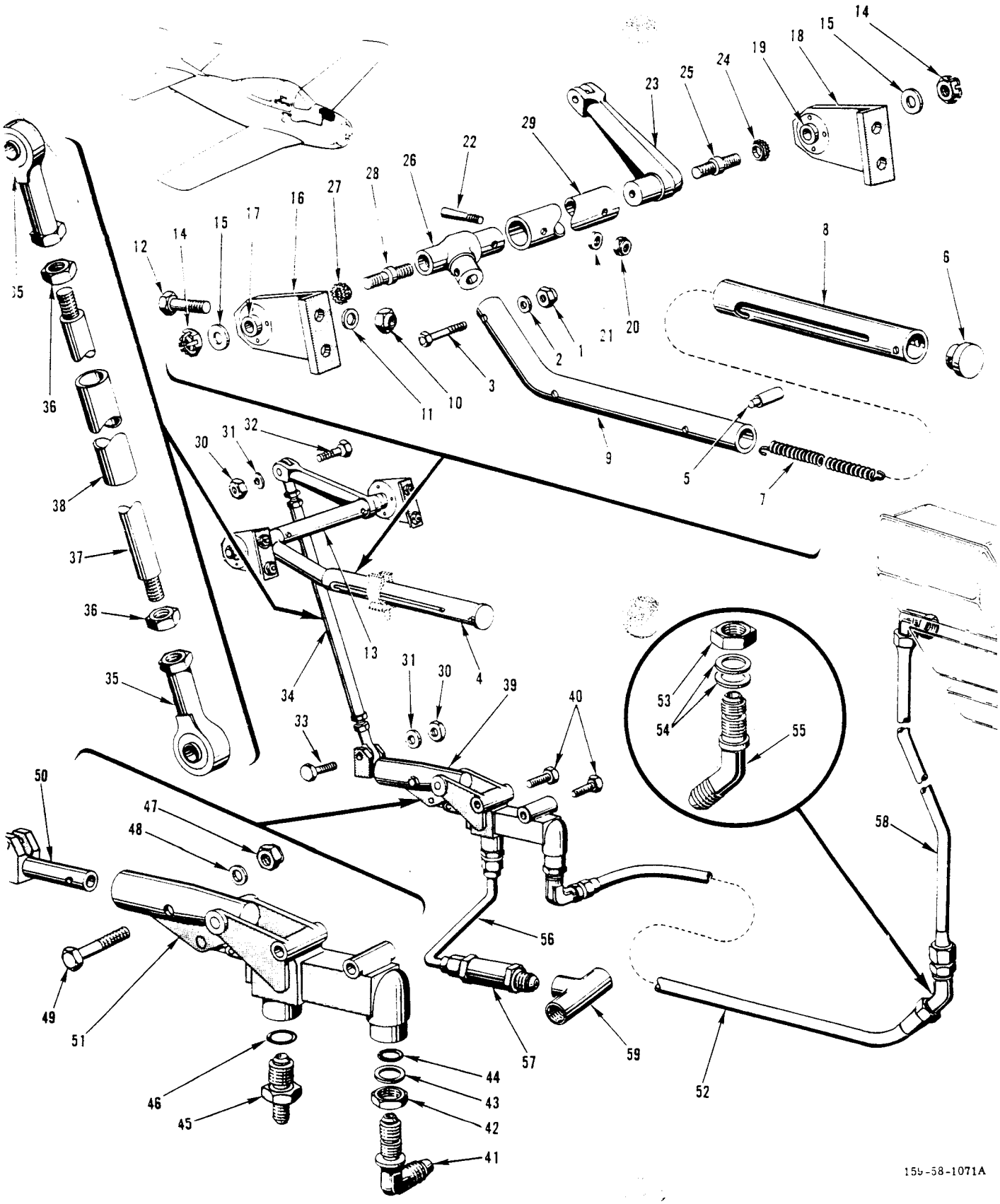


FIGURE 141 - HYDRAULIC EMERGENCY HAND PUMP AND EQUIPMENT

FUSELAGE HYDRAULICS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
141		HYDRAULIC EMERGENCY HAND PUMP AND EQUIPMENT		
	159-58017	. HYDRAULIC EQUIPMENT INSTALLATION, Fuselage sta 49.5 to sta 168 LH side (see figure 62 for next assembly)	NP	
-1	AN365-1032	. . NUT	1	
-2	AN960D10	. . WASHER	1	
-3	AN3-13A	. . BOLT	1	
-4	159-58198	. . HANDLE ASSEMBLY, Hydraulic emergency hand pump	1	
-5	159-58264	. . . PIN, Hydraulic emergency hand pump handle lock	1	
-6	159-58266	. . . KNOB ASSY, Hydraulic emergency hand pump handle	1	
-7	159-58265	. . . SPRING, Hydraulic emergency hand pump handle retract	1	
-8	159-58268	. . . TUBE, Hydraulic emergency hand pump handle outer	1	
-9	159-58267	. . . TUBE, Hydraulic emergency hand pump handle inner	1	
-10	AN365-1032	. . NUT	4	
-11	AN960D10	. . WASHER	4	
-12	AN3-5A	. . BOLT	4	
-13	159-58200	. . SHAFT ASSEMBLY, Hydraulic emergency hand pump operating torque complete	1	
-14	AN310-5	. . . NUT	2	
-15	AN960-516L	. . . WASHER	2	
	AN960-516	. . . WASHER	1	
-16	159-58194-5	. . . SUPPORT ASSEMBLY, Hydraulic emergency hand pump operating torque shaft right side	1	
-17	AN210-5	. . . . BEARING	1	
-18	159-58194-3	. . . SUPPORT ASSEMBLY, Hydraulic emergency hand pump operating torque shaft left side	1	
-19	AN210-5	. . . . BEARING	1	
	159-58200-3	. . . SHAFT SUB-ASSEMBLY, Hydraulic emergency hand pump operating torque	1	
-20	AN364-428	. . . . NUT	2	
-21	AN975-4	. . . . WASHER	2	
-22	AN346-3-7A	. . . . PIN	2	
-23	159-58196	. . . . BELLCRANK ASSEMBLY, Hydraulic emergency hand pump operating torque shaft	1	
-24	RL28SB8	. . . . . RING, Lock (Rosan)	1	
-25	DF111-11SA18	. . . . . STUD, Two piece drilled (Rosan)	1	
-26	159-58199	. . . . SHAFT ASSEMBLY, Hydraulic emergency hand pump operating torque	1	
-27	RL28SB8	. . . . . RING, Lock (Rosan)	1	
-28	DF111-11SA18	. . . . . STUD, Two piece drilled (Rosan)	1	
-29	159-58263	. . . . SHAFT, Hydraulic emer hand pump operating torque	1	
-30	AN310-5	. . NUT	2	
-31	AN960D10L	. . WASHER	2	
-32	83-13	. . BOLT	1	
-33	83-12	. . BOLT	1	
-34	159-58197	. . ROD ASSEMBLY, Hydraulic emergency hand pump operating	1	
-35	REE3M2	. . . ROD END (Fafnir Bearing)	2	
-36	AN316-5R	. . . NUT	2	
-37	185P10-524	. . . ROD END, Threaded (North American)	2	
-38	159-58197-3	. . . ROD, Hydraulic emergency hand pump operating	1	
-39	159-58058	. . PUMP ASSEMBLY, Hydraulic system complete emergency hand	1	
	ATTACHING PARTS			
-40	AN4-27A	. . BOLT	2	
	---*---			
-41	AN833-8D	. . . ELBOW	1	
-42	AN6289D8	. . . NUT	1	
-43	AN6291-8	. . . RING	1	
-44	AN6290-8	. . . GASKET	1	
-45	AN815-6D	. . . UNION	1	
-46	AN6290-6	. . . GASKET	1	
-47	AN365-1032	. . . NUT	1	
-48	AN960-10L	. . . WASHER	1	
-49	AN3-20A	. . . BOLT	1	
-50	159-58193	. . . FITTING, Hydraulic emergency hand pump socket	1	
-51	311250	. . . PUMP ASSY, 1 1/2 cu in. ball check hand (Gladden Prod.) (AN6201-1) (supersedes Adel No. D10007-8 for future procurement)	1	
-52	159-58817-69	. . LINE ASSEMBLY, Hydraulic fuselage station 100 hand pump to fuselage sta 87 elbow hand pump supply	1	
-53	AN924-8D	. . NUT	1	
-54	AN960D1216	. . WASHER	2	
-55	AN837-8D	. . ELBOW	1	
-56	159-58817-67	. . LINE ASSEMBLY, Hydraulic fuselage station 93 check valve in pressure tee to fuselage station 100 hand pump	1	
-57	AN6207-6	. . VALVE ASSEMBLY, 1500 PSI Hydraulic check	1	
	159-58014	. HYDRAULIC EQUIPMENT INSTALLATION, Fuselage station 49.5 firewall (see figure 62 for next assembly)	NP	
-58	AN6271-8-15 1-2	. . HOSE ASSY (supersedes 159-58814-13 which is not OK for replacement on any airplane and is to be scrapped when replacement is necessary)	1	
-59	For continuation of this equipment see figure 119		Ref	

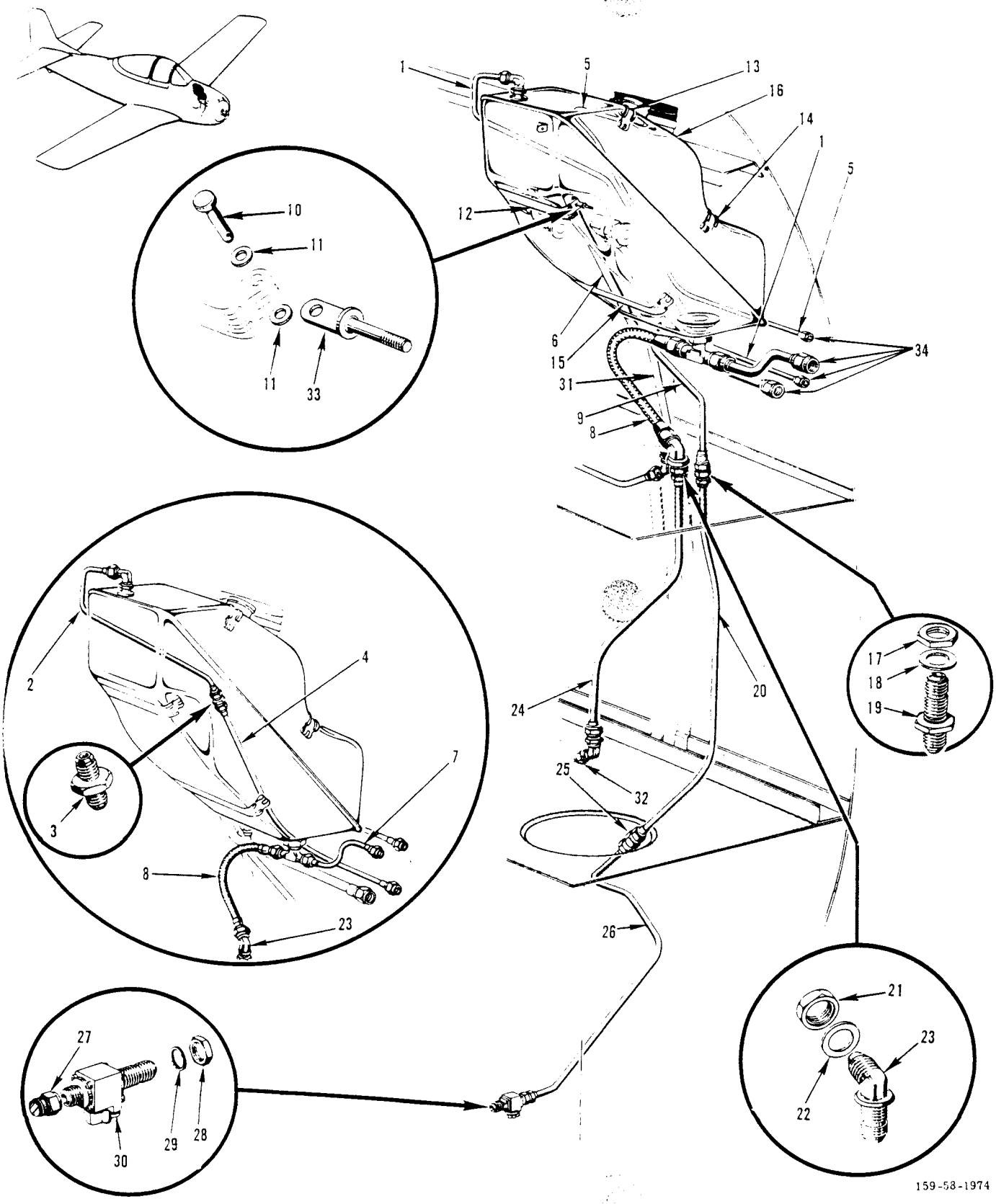


FIGURE 142 - HYDRAULIC RESERVOIR EQUIPMENT

FUSELAGE HYDRAULICS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
142		HYDRAULIC RESERVOIR EQUIPMENT		
	159-58014	. HYDRAULIC EQUIPMENT INSTALLATION, Fuselage station -8.5 . . . firewall (see figure 62 for next assembly)	NP	
-1	159-58814-19	. . LINE ASSEMBLY, Hydraulic reservoir vent port to bulkhead . elbow station -8.5 firewall	1	83-
-2	159-58814-21	. . LINE ASSEMBLY, Hydraulic reservoir vent port to union . .	1	4-82
-3	AN816-6D	. . UNION	1	4-82
-4	159-58814-23	. . LINE ASSY, Hydraulic reservoir vent firewall to union . .	1	4-82
-5	159-58814-5	. . LINE ASSY, Hydraulic reservoir scupper port to bulkhead . elbow station -8.5 reservoir scupper	1	
-6	159-58814-7	. . LINE ASSY, Hydraulic reservoir suction port to bulkhead . elbow station -8.5 engine pump suction	1	
-7	159-58814-25	. . LINE ASSY, Hydraulic reservoir return port to bulkhead . . union station 69 1/2 system return	1	
-8	AN6271-8-17	. . HOSE ASSEMBLY	1	
-9	159-58814-9	. . LINE ASSEMBLY, Hydraulic reservoir drain port to bulkhead union station 53 5/16 reservoir drain	1	
-10	AN123-21	. . PIN	4	
-11	AN960-10L	. . WASHER	8	
-12	15526-11	. . STRAP ASSY, 1 1/2 Quick coupler special loop ends padded . . . . 'Marman' (supersedes 22761-11-7.625 which is not OK for replacement on any airplanes and is to be scrapped when replacement is necessary)	1	
-13	15526-13	. . STRAP ASSY, 1 1/2 Quick coupler special loop ends padded. . 'Marman' supersedes 22761-13-12.250 which is not OK for replacement on any airplanes and is to be scrapped when replacement is necessary)	1	
-14	15526-11	. . STRAP ASSY, 1 1/2 Quick coupler special loop ends padded. . 'Marman' supersedes 22761-11-7.500 which is not OK for replacement on any airplanes and is to be scrapped when replacement is necessary	1	
-15	15526-12	. . STRAP ASSY, 1 1/2 Quick coupler special loop ends padded. . 'Marman' supersedes 22761-12-10.375 which is not OK for replacement on any airplanes and is to be scrapped when replacement is necessary	1	
-16	159-58051-10	. . RESERVOIR ASSEMBLY, Hydraulic system main complete . . . . see figure 1-3 for detail breakdown	1	201-
	159-58051-5	. . RESERVOIR ASSEMBLY, Hydraulic system main complete . . . . supersedes 159-58051 (see figure 1-3 for detail breakdown	1	83-200
	159-58051	. . RESERVOIR ASSEMBLY, Hydraulic system main complete . . . . superseded by 159-58051-5 (see figure 1-3 for detail breakdown	1	4-82
	159-58017	. HYDRAULIC EQUIPMENT INSTALLATION, Fuselage sta -8.5 to . . . sta 168 LH side (see figure 62 for next assembly)	NP	
-17	AN924-6D	. . NUT	1	
-18	AN960D916	. . WASHER	1	
-19	AN816-6D	. . UNION	1	
-20	159-58807-9	. . LINE ASSY, Hyd drain bulkhead union sta 53 5/16 to union .	1	
-21	AN924-8D	. . NUT	1	
-22	AN960D1216	. . WASHER	1	
-23	AN817-8D	. . ELBOW	1	
-24	159-58810-17	. . LINE ASSEMBLY, Hydraulic system return elbow fuselage sta 61 to union fuselage sta 55 in pilot's floor	1	
	159-58008	. HYDRAULIC EQUIPMENT INSTL, LH lower fuselage sta 49 1/2 to . station 97.5 (see figure 62 for next assembly)	NP	4-140
	159-58005	. HYDRAULIC EQUIPMENT INSTL, LH lower fuselage station -9 1/2 . to 97.5 (see figure 62 for next assembly)	NP	141-
-25	AN816-6D	. . UNION	1	
-26	159-58808-69	. . LINE ASSEMBLY, Hydraulic system drain from union station . 49.5 to valve	1	
-27	AN929-6	. . CAP	1	
-28	AN924-6D	. . NUT	1	
-29	AN960D916	. . WASHER	2	
-30	8851-2	. . VALVE ASSEMBLY, Hydraulic drain (Koehler Aircraft) . . . . (supersedes Koehler No. 8151-2 which cannot be used interchangeably with Koehler No. 8851-2 except on those airplanes from which the part was removed)	1	
-31	AN6271-8-15 1-2	HOSE ASSEMBLY (see figure 141)	Ref	
-32	159-58808-25	LINE ASSEMBLY, Hydraulic system return (figure 121)	Ref	
-33	AN-3	BOLT (see figure 63, 65 and 82)	Ref	
-34	For continuation of these lines see figure 250		Ref	

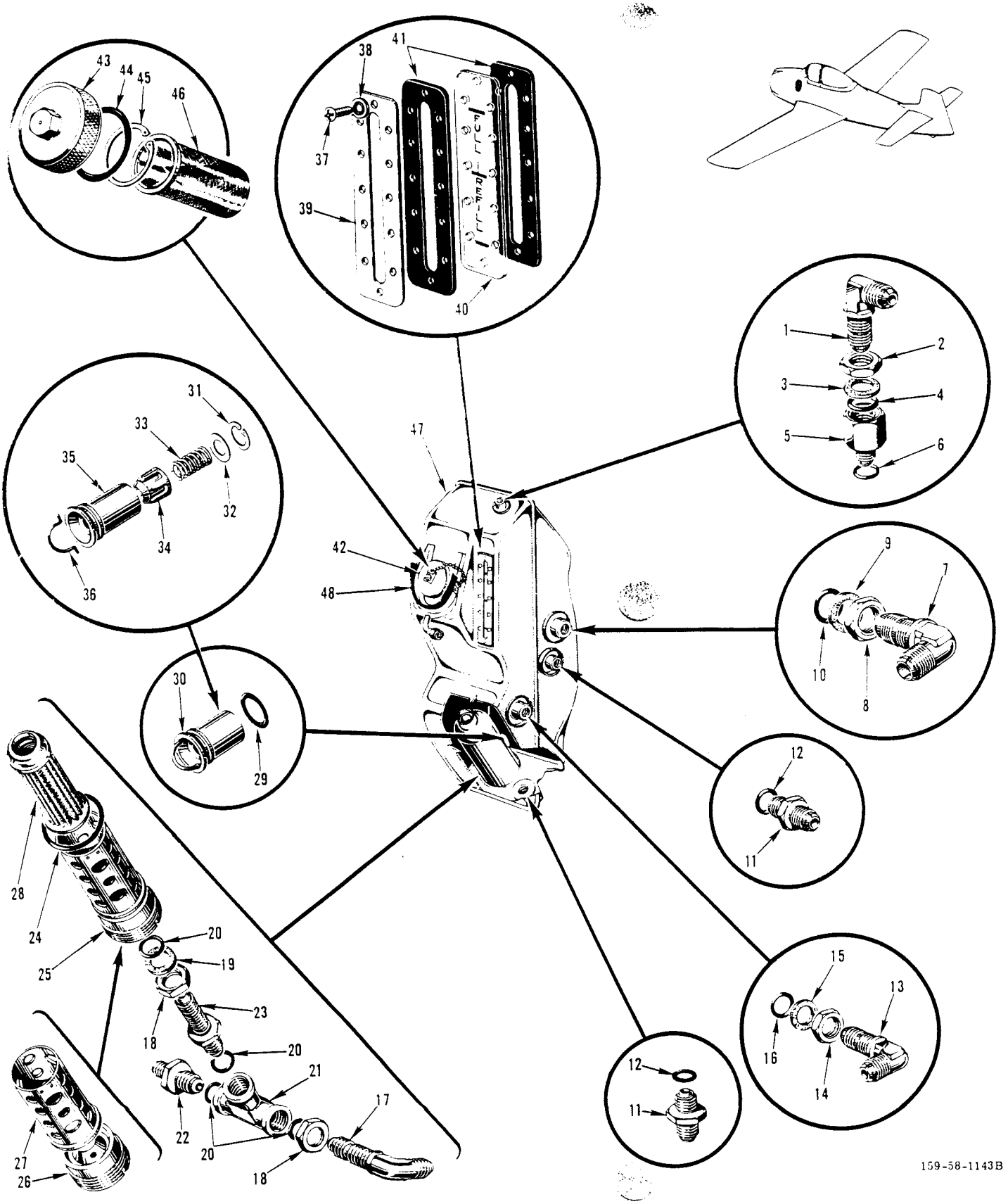


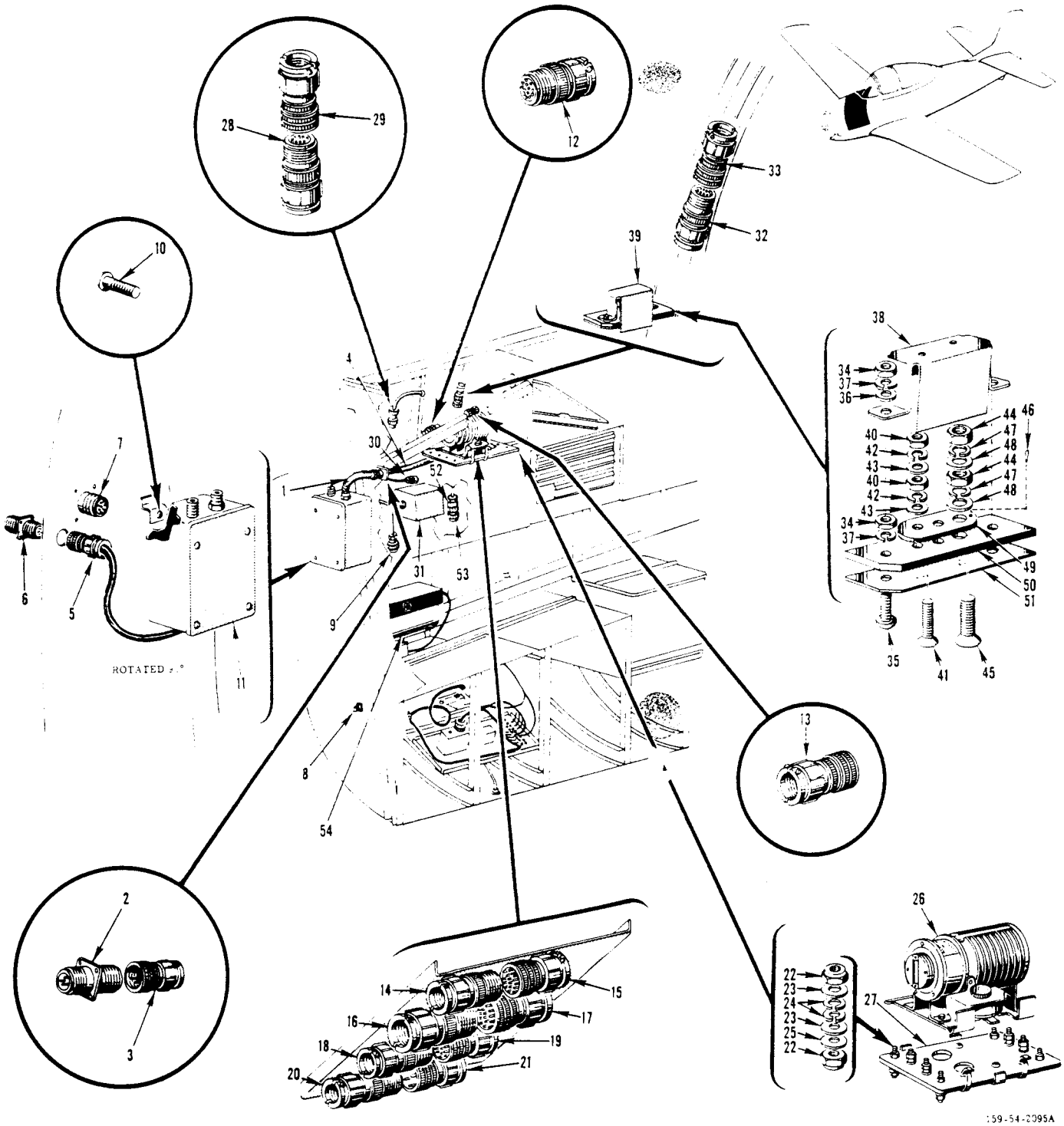
FIGURE 143 - HYDRAULIC SYSTEM MAIN RESERVOIR ASSEMBLY

FUSELAGE HYDRAULICS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
143	159-58051-10	RESERVOIR ASSEMBLY, Hydraulic system main complete (see figure 142 for next assembly)	Ref	201-
	159-58051-5	RESERVOIR ASSEMBLY, Hydraulic system main complete (this assy plus 159-58814-19 supersedes 159-58051 for **) (this assy plus AN893-8D and AN6290-8 supersedes 159-58051 for ***) (see figure 142 for next assembly)	Ref	83-200
	159-58051	RESERVOIR ASSEMBLY, Hydraulic system main complete (superseded by 159-58051-5) (see figure 142 for next assembly)	Ref	4-82
-1	AN833-8D	. ELBOW	1	
-2	AN6289D8	. NUT	1	
-3	AN6291-8	. RING	1	
-4	AN6290-8	. GASKET	1	
-5	AN924-D8--	. BUSHING (used on 159-58051 only)	1	4-82
-6	AN6290--	. GASKET (used on 159-58051 only)	1	4-82
-7	AN833-12D	. ELBOW	1	
-8	AN6289D12	. NUT	1	
-9	AN6291-12	. RING	1	
-10	AN6290-12	. GASKET	1	
-11	AN814-6D	. UNION	2	
-12	AN6290-6	. GASKET	2	
-13	AN833-8D	. ELBOW	1	
-14	AN6289D8	. NUT	1	
-15	AN6291-8	. RING	1	
-16	AN6290-8	. GASKET	1	
-17	AN837-8D	. ELBOW	1	
-18	AN6289D8	. NUT	2	
-19	AN6291-8	. RING	2	
-20	AN6290-8	. GASKET	4	
-21	AN926-8D	. TEE	1	
-22	AN919-12D	. REDUCER	1	
-23	AN814-8D	. UNION	1	
-24	AN6290-8	. GASKET	1	
-25	159-58417	. FILTER HOUSING ASSEMBLY, Hydraulic system main reservoir	1	
-26	159-58169	. . FILTER END, Hydraulic system main reservoir	1	
-27	159-58415	. . HOUSING ASSEMBLY, Hydraulic sys main reservoir filter	1	
-28	AN6235--4	. FILTER ELEMENT, Hydraulic replaceable micronic line type Skinner Purifiers No. 25605A or Purolator No. P1024-2 may be used)	1	
-29	AN6227-14	. PACKING	1	
-30	159-58103-3	. VALVE ASSEMBLY, Hydraulic filter relief	1	
-31	MAS50-68	. . RING, Internal retainer	1	
-32	2W1AL24-21-62	. . WASHER, Plain (North American)	1	
-33	159-58105	. . SPRING, Hydraulic filter relief valve	1	
-34	H676-685	. . PLUNGER, Check valve (Hydropack Hyd Accessories)	1	
-35	159-58104-3	. . BODY, Hydraulic filter relief valve	1	
-36	159-58418	. . RAIL, Hydraulic system main res filter relief valve	1	
-37	MAS221-16	. SCREW, Brazier head Phillips recess alloy steel 10-32	12	
-38	200A010	. WASHER, Lock-O-seal (Franklin C. Wolfe Co., Inc.)	12	
-39	159-58168	. PLATE, Hydraulic sys main reservoir sight gage window cover	1	
-40	159-58166	. WINDOW, Hydraulic system main reservoir sight gage	1	
-41	159-58167	. GASKET, Hydraulic system main reservoir sight gage window	2	
-42	159-58179	. CAP ASSEMBLY, Hydraulic system reservoir filler	1	4-200
-43	159-58180	. . CAP, Hydraulic system reservoir filler	1	4-200
	9023	. CAP ASSEMBLY, Hydraulic system reservoir filler (Roylyn, Inc.)	1	201-
	RS108-80	. CHAIN ASSEMBLY (Roylyn, Inc.)	1	201-
-44	AN6230-10	. GASKET	1	4-200
-45	NAS50-225	. RING, Internal retainer	1	4-200
	6141	. RING, Snap (Roylyn, Inc.)	1	201-
-46	159-58172	. STRAINER ASSY, Hydraulic system main reservoir filler	1	4-200
	6140	. STRAINER ASSY, Hydraulic reservoir filler (Roylyn, Inc.)	1	201-
-47	159-58176	. TANK ASSEMBLY, Hydraulic main system reservoir	1	4-200
	159-58176-10	. TANK ASSEMBLY, Hydraulic main system reservoir	1	201-
-48	159-58323-3	. . SEAL, Hydraulic system main reservoir scupper	1	4-200
	159-58323-5	. . SEAL, Hydraulic system main reservoir scupper	1	201-

NOTE: ** Airplanes 4, 5, 11, 14-20, 22-24 and 26-82.
*** Airplanes 6-10, 12, 13, 21 and 25.

FUSELAGE ELECTRICAL



159-54-2095A

FIGURE 144 - FUSELAGE STATION 49 1/2 TO STATION 168 RH SIDE ELECTRICAL EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
144	159-54031	ELECTRICAL EQUIPMENT INSTL, Fuselage station 49 1/2 to station 168 RH side (see figure 56 for next assembly)	NP	4-60
	159-54531	ELECTRICAL EQUIPMENT INSTL, Fuselage station 49 1/2 to station 168 RH side (see figure 56 for next assembly)	NP	81-268
	No Number	. FUSELAGE STATION 68.75 TO STATION 113 LH SIDE ELECTRICAL EQUIPMENT (see figure 146 for detail breakdown)	NP	4-268
	No Number	. FUSELAGE STATION 113 TO STATION 168 RH SIDE ELECTRICAL EQUIPMENT (see figure 148 for detail breakdown)	NP	4-268
	No Number	. FUSELAGE STATION 49 1/2 to 87.875 LOWER RH ELECTRICAL EQUIPMENT (see figure 150 for detail breakdown)	NP	4-268
-1	159-54133-5	. CONDUIT ASSEMBLY, Engine ignition electrical	1	4-268
-2	AN3100-14S7S	. RECEPTACLE	1	4-268

FUSELAGE ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
144-3	AN3106-14S7P		.	PLUG, (magnito switch)	1	4-268
-4	159-54133-7		.	CONDUIT ASSEMBLY, Engine ignition electrical	1	4-268
-5	AN3106-16S8P		.	PLUG, (induction vibrator power)	1	4-268
-6	AN3100-16-8S		.	RECEPTACLE	1	4-268
	AN3057-8A		.	ADAPTER	2	4-268
-7	AN3100-22-14S		.	RECEPTACLE, (engine instrument)	1	4-268
	AN3057-12A		.	ADAPTER	1	4-268
-8	AN3100-36-2S		.	RECEPTACLE, (generator starter)	1	4-268
	AN3057-24A		.	ADAPTER	1	4-268
-9	AN3106-14S7S		.	PLUG, (cowl flap and oil cooler actuator)	1	4-268
	AN3057-6A		.	ADAPTER	1	4-268
-10	AN520-10R8		.	SCREW	4	4-268
-11	159-54135		.	BOX ASSEMBLY, Electrical induction vibrator complete (see figure 162 for detail breakdown)	1	4-268
-12	AN3101-24-28S		.	RECEPTACLE, (forward instrument panel disconnect)	1	4-268
-13	AN3106-28-12S		.	PLUG, (forward instrument panel disconnect)	1	4-268
	AN3057-16A		.	ADAPTER	2	4-268
-14	AN3101-20-29S		.	RECEPTACLE, (circuit breaker panel)	1	4-268
-15	AN3106-20-29P		.	PLUG, (forward switch panel)	1	4-268
	AN3057-12A		.	ADAPTER	2	4-268
-16	AN3101-28-11P		.	RECEPTACLE, (circuit breaker panel)	1	4-268
-17	AN3106-28-11S		.	PLUG, (circuit breaker panel)	1	4-268
	AN3057-16A		.	ADAPTER	2	4-268
-18	AN3101-18-1P		.	RECEPTACLE, (circuit breaker panel)	1	4-268
-19	AN3106-18-1S		.	PLUG, (circuit breaker panel)	1	4-268
	AN3057-10A		.	ADAPTER	2	4-268
-20	AN3101-18-13P		.	RECEPTACLE, (main inverter)	1	4-268
-21	AN3106-18-13S		.	PLUG, (main inverter)	1	4-268
	AN3057-10A		.	ADAPTER	2	4-268
-22	AN340B8	*2	.	NUT	4	4-268
-23	AN960B8	*2	.	WASHER	4	4-268
-24	AN935-8	*2	.	WASHER	4	4-268
-25	EWP12-16-156	*2	.	WASHER, Plain (North American)	4	4-268
-26	No Number	*2	.	REGULATOR ASSEMBLY, Voltage carbon pile type P1 (Spec 94-32276-B) (AERNC -2-1501) (GFAE)	1	4-268
-27	159-54-2	*2	.	BASE ASSEMBLY, Voltage regulator (4907573 may be sub.)	1	4-268
-28	AN3101-28-12P		.	RECEPTACLE, (fwd switch panel)	1	4-268
-29	AN3106-28-12S		.	PLUG, (fwd switch panel)	1	4-268
	AN3057-16A		.	ADAPTER	2	4-268
-30	AN3106-16S8S		.	PLUG, (flasher)	1	4-268
	AN3057-8A		.	ADAPTER	1	4-268
-31	159-54085		.	PANEL ASSEMBLY, Electrical type 32 flasher (see figure 161 for detail breakdown)	1	4-268
-32	AN3101-22-14P		.	RECEPTACLE, (fwd switch panel)	1	4-268
-33	AN3106-22-14S		.	PLUG, (fwd switch panel)	1	4-268
	AN3057-12A		.	ADAPTER	2	4-268
-34	AN315-3		.	NUT	4	4-268
-35	AN520-10R14		.	SCREW	2	4-268
-36	AN960-10L		.	WASHER	2	4-268
-37	AN935-10		.	WASHER	4	4-268
-38	159-54298		.	COVER, Electrical power distribution panel	1	4-268
-39	159-54102		.	PANEL ASSEMBLY, Electrical power distribution	1	4-268
-40	AN340B416		. .	NUT, (for electrical use)	4	4-268
-41	AN507B428-22		. .	SCREW	2	4-268
-42	AN935B416		. .	WASHER	4	4-268
-43	AN960B416		. .	WASHER	4	4-268
-44	AN335B6		. .	NUT	2	4-268
-45	159-54698		. .	SCREW, Electrical stud mounting (make from AN507-616R28)	1	4-268
-46	AN385-60-3		. .	PIN	1	4-268
-47	AN935B616		. .	WASHER	2	4-268
-48	AN960B616		. .	WASHER	2	4-268
-49	159-54104		. .	BUS BAR, Electrical power distribution	1	4-268
-50	159-54103		. .	PANEL, Electrical power distribution	1	4-268
-51	159-54105		.	INSULATION, Electrical power distribution panel	1	4-268
-52	AN3101-16S1S		.	RECEPTACLE, (canopy control)	1	4-268
-53	AN3106-16S1P		.	PLUG, (canopy control)	1	4-268
	AN3057-8A		.	ADAPTER	2	4-268
-54	AN3513-1	*1	.	INVERTER ASSY, (AERNC -2-2215) (GFAE) (AN3533-1 AERNO -2-2355) or Jack & Heintz F20, F20-4 or Eclipse-Pioneer 32EC1-1, 32EC1-1A or 32EC1-2A may be substituted)	1	4-268

*1 Refer to T. O. 1T-28-50.

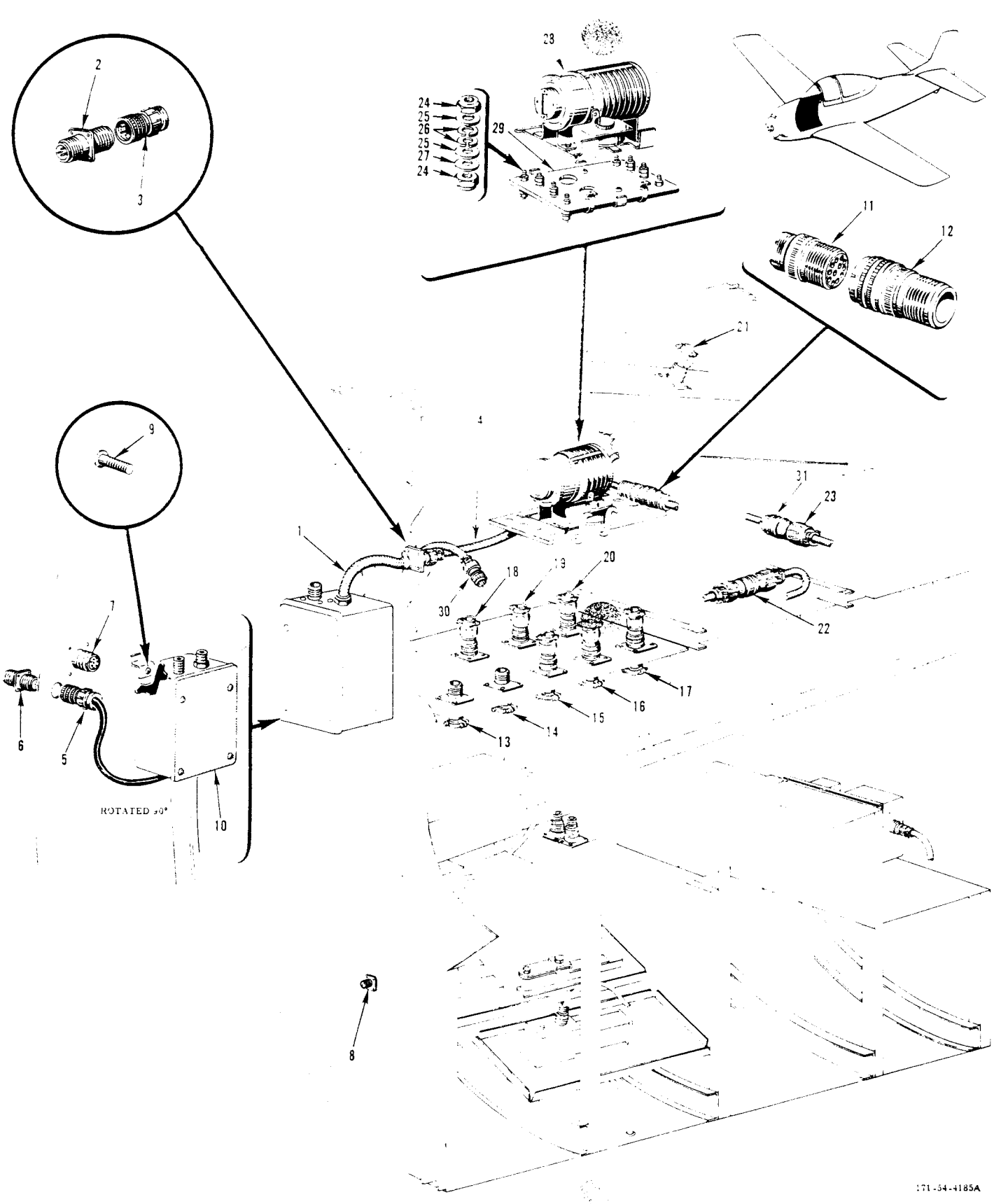
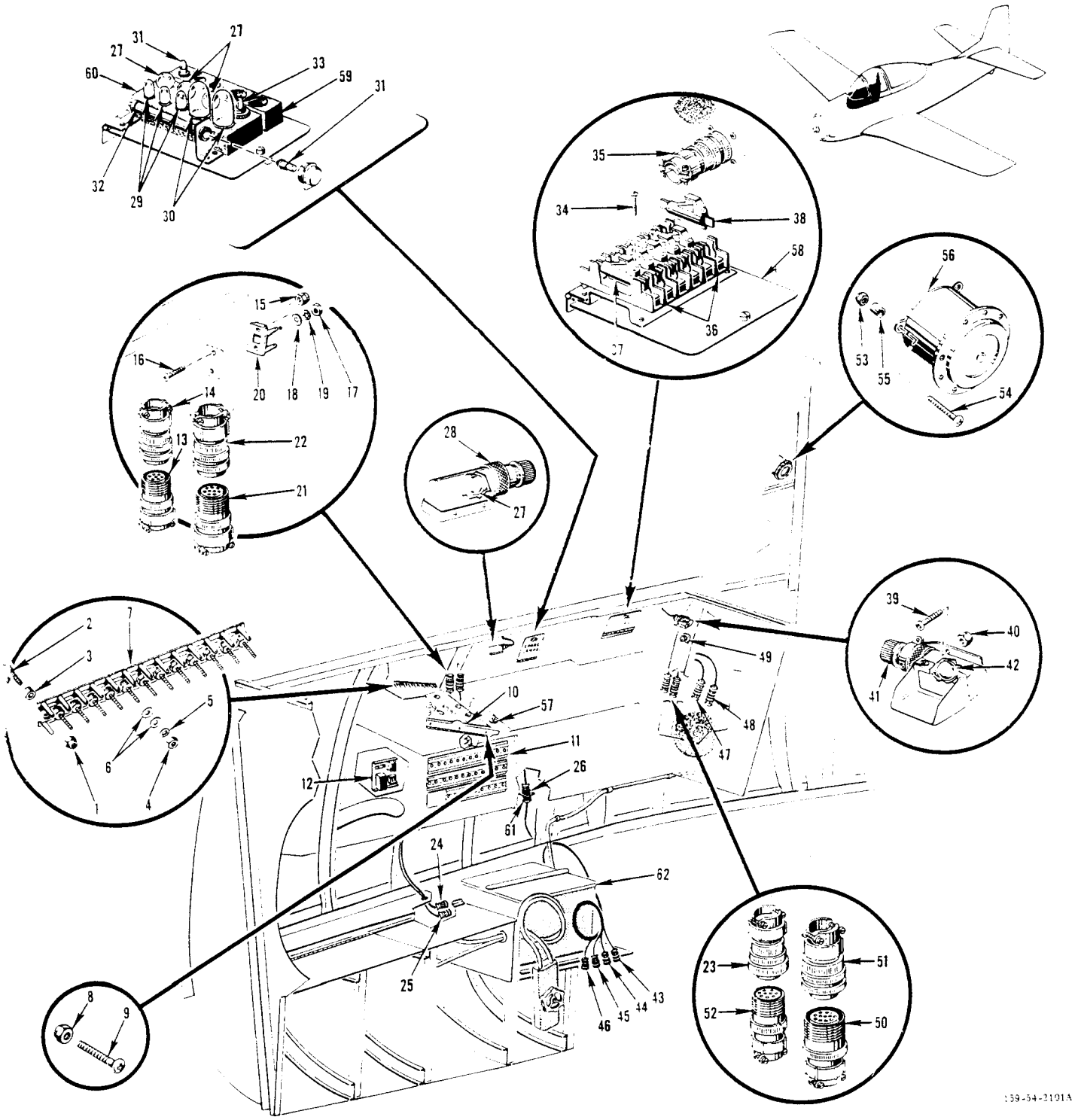


FIGURE 145 - FUSELAGE STATION 49 1/2 TO STATION 168 RH SIDE ELECTRICAL EQUIPMENT

FUSELAGE ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
145	171-5-031	ELECTRICAL EQUIPMENT INSTL, Fuselage station 49 1/2 to station 168 RH side (see figure 58 for next assembly)	NP	269-393
	174-5-031	ELECTRICAL EQUIPMENT INSTL, Fuselage station 49 1/2 to station 168 RH side (see figure 58 for next assembly)	NP	394-
	No Number	. FUSELAGE STATION 78 3/8 to STATION 113 RH SIDE ELECTRICAL EQUIPMENT (see figure 147 for detail breakdown)	NP	269-
	No Number	. FUSELAGE STATION 113 to STATION 168 RH SIDE ELECTRICAL EQUIPMENT (see figure 149 for detail breakdown)	NP	269-
	No Number	. FUSELAGE STATION 49 1/2 to 87.875 LOWER RH ELECTRICAL EQUIPMENT (see figure 151 for detail breakdown)	NP	269-
-1	169-5-133-5	. CONDUIT ASSEMBLY, Engine ignition electrical	1	269-
-2	AN3100-14S7S	. RECEPTACLE	1	269-
-3	AN3106-14S7P	. PLUG, (magneto switch)	1	269-
-4	169-5-133-7	. CONDUIT ASSEMBLY, Engine ignition electrical	1	269-
-5	AN3106-10S6P	. PLUG, (induction vibrator power)	1	269-
-6	AN3100-10S6S	. RECEPTACLE	1	269-
	AN3057-6A	. ADAPTER	2	269-
-7	AN3100-22-14S	. RECEPTACLE, (engine instrument)	1	269-
	AN3057-12A	. ADAPTER	1	269-
-8	AN3100-36-2S	. RECEPTACLE, (generator starter)	1	269-
	AN3057-24A	. ADAPTER	1	269-
-9	AN520-10R12	. SCREW, Machine round head fine thread	4	269-
	MAS-3DD8-16	. SPACER, Screw and bolt	4	394-
-10	169-5-135	. BOX ASSEMBLY, Electrical induction vibrator complete (see figure 162 for detail breakdown)	1	269-1137
	169-5-135-10	. BOX ASSEMBLY, Electrical induction vibrator complete (see figure 162 for detail breakdown)	1	1138-
-11	AN3101-24-28S	. RECEPTACLE, (forward instrument panel disconnect)	1	269-
-12	AN3106-24-28P	. PLUG, (forward instrument panel disconnect)	1	269-
	AN3057-16A	. ADAPTER	2	269-
-13	AN3100-22-14S	. RECEPTACLE, (inst panel)	1	269-
	AN3057-12A	. ADAPTER	1	269-
-14	AN3100-24-28S	. RECEPTACLE, (inst panel)	1	269-
	AN3057-16A	. ADAPTER	1	269-
-15	AN3100-22-14P	. RECEPTACLE, (switch panel)	1	269-
	AN3106-22-14S	. PLUG	1	269-
	AN3057-12A	. ADAPTER	2	269-
-16	AN3100-24-28P	. RECEPTACLE, (circuit breaker panel)	1	269-
	AN3106-24-28S	. PLUG	1	269-
	AN3057-16A	. ADAPTER	2	269-
-17	AN3100-24-11P	. RECEPTACLE, (circuit breaker panel)	1	269-
	AN3106-24-11S	. PLUG	1	269-
	AN3057-16A	. ADAPTER	2	269-
-18	AN3100-18-1P	. RECEPTACLE, (fwd equip panel)	1	269-
	AN3106-18-1S	. PLUG	1	269-
	AN3057-10A	. ADAPTER	2	269-
-19	AN3100-20-27P	. RECEPTACLE, (shift relay)	1	269-
	AN3106-20-27S	. PLUG	1	269-
	AN3057-12A	. ADAPTER	2	269-
-20	AN3100-24-10S	. RECEPTACLE, (circuit breaker panel)	1	269-
	AN3106-24-10P	. PLUG	1	269-
	AN3057-16A	. ADAPTER	2	269-
-21	AN3106-20-29S	. PLUG	1	269-
	AN3057-12A	. ADAPTER	1	269-
-22	AN3101-20-29S	. RECEPTACLE	1	269-
	AN3106-20-29P	. PLUG	1	269-
	AN3057-12A	. ADAPTER	2	269-
-23	AN3106-18-8S	. PLUG, (Radio Power)	1	269-593
	AN3057-10A	. ADAPTER	1	269-593
	AN3106-24-7S	. PLUG, (Radio Power)	1	594-
	AN3057-16A	. ADAPTER	1	594-
-24	AN340B8	. NUT	8	269-
-25	AN960B8	. WASHER	8	269-
-26	AN935-8	. WASHER	8	269-
-27	2W1P12-16-156	. WASHER (North American)	4	269-
-28	No Number	. REGULATOR ASSEMBLY, Voltage carbon pile type P1 (Spec 17R21 or 94-32276B) (AERNC -2-1501) (GFAE)	1	269-
-29	4907573	. BASE ASSEMBLY, Voltage regulator	1	269-
-30	AN3106-14S7S	. PLUG	1	269-
	AN3057-6A	. ADAPTER	1	269-
-31	AN3101-18-8P	RECEPTACLE, (see fig. 179)	Ref	
	AN3101-24-7P	RECEPTACLE, (see fig. 180)	Ref	

FUSELAGE ELECTRICAL (Cont)



159-54-2191A

FIGURE 1-46 - FUSELAGE STATION 68.75 TO STATION 113 RH SIDE ELECTRICAL EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
1-46	No Number	FUSELAGE STATION 68.75 TO STATION 113 RH-SIDE ELECTRICAL EQUIPMENT (See Figure 1-4 for next assembly)	NP	--268
-1	AN365-440	. NUT	3	--268
-2	AN515--R12	. SCREW	3	--268
-3	NAS43DD1-6	. SPACER, Screw	12	4-268
-4	AN340-3	. NUT	12	--268
-5	AN936A6	. WASHER	24	--268
-6	AN960-6	. WASHER	1	--268
-7	NAS45-6-12	. PANEL ASSEMBLY, Electrical connector	3	4-268
-8	AN365-632	. NUT	3	4-268
-9	AN515-6R8	. SCREW		

FUSELAGE ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
146-10	159-54070	.	PANEL ASSEMBLY, Electric forward cockpit switch (see figure 163 for detail breakdown)	1	4-80
	159-54325	.	PANEL ASSEMBLY, Electric forward cockpit switch complete (see figure 163 for detail breakdown)	1	81-268
-11	159-54050	.	PANEL ASSEMBLY, Electric forward circuit breaker (see figure 166 for detail breakdown)	1	4-80
	159-54350	.	PANEL ASSEMBLY, Electric forward circuit breaker (see figure 166 for detail breakdown)	1	81-268
-12	159-54090	.	PANEL ASSEMBLY, Electric forward cockpit equipment complete (see figure 168 for detail breakdown)	1	4-268
-13	AN3101-14S5S	.	RECEPTACLE,(Forward equipment panel)	1	4-268
-14	AN3106-14S5P	.	PLUG, (fwd equipment panel)	1	4-268
	AN3057-6A	.	ADAPTER	2	4-268
-15	AN365-440	.	NUT	2	4-268
-16	AN515-4R8	.	SCREW	2	4-268
-17	AN340-6	.	NUT	1	4-268
-18	AN960-6	.	WASHER	1	4-268
-19	AN936A6	.	WASHER	1	4-268
-20	NAS45-6-1	.	PANEL ASSEMBLY, Electrical connector	1	4-268
-21	AN3101-28-12S	.	RECEPTACLE	1	4-268
-22	AN3106-28-12P	.	PLUG, (forward equipment panel)	1	4-268
	AN3057-16A	.	ADAPTER	2	4-268
-23	AN3106-22-14P	.	PLUG, (aft equipment panel)	1	4-268
	AN3057-12A	.	ADAPTER	1	4-268
-24	AN3101-20-21S	.	RECEPTACLE, (RH wing disconnect)(refer to T.O. 01-60FG-37)	1	4-268
	AN3057-12A	.	ADAPTER	1	4-268
-25	AN3106-24-7S	.	PLUG, (RH wing disconnect)	1	4-268
-26	AN3106-18-1S	.	PLUG, (radio power)	1	4-268
	AN3057-10A	.	ADAPTER	1	4-268
-27	AN3131-303	.	LAMP	4	4-268
-28	A4255A7	.	LIGHT ASSY, Inst (red) (less lamp shield and bracket (Grimes)	1	4-268
-29	AN3121-313	.	LAMP	3	4-268
-30	F2T6/360BL	.	LAMP, Ultra violet (General Electric)	2	4-268
-31	AN3140-327	.	LAMP, (General Electric No. 327 may be used)	5	81-268
	AN3140-327	.	LAMP, (General Electric No. 327 may be used)	2	4-80
-32	A2953	.	CONTAINER ASSEMBLY, Spare lamp (Grimes)	1	4-268
-33	AN3136-323	.	LAMP	1	4-268
-34	AN507-832R10	.	SCREW	4	4-268
-35	AN3106-16S1P	.	PLUG, (fuse panel)	1	4-268
	AN3057-8A	.	ADAPTER	1	4-268
-36	No Number	.	FUSE HOLDER ASSY, (AF dwg No. 49C6548-5)(Burndy Engr No. F3H1)	1	4-268
	No Number *1	.	FUSE HOLDER ASSY, (AF dwg No. 49C6548-5)(Burndy Engr No. F3H1)	1	4-268
	No Number *2	.	FUSE HOLDER ASSY, (AF dwg No. 49C6548-3)	2	4-268
-37	No Number	.	FUSE, (AF dwg No. 49A6549-1-1)(Burndy Engr No. F1L-2)	4	4-268
-38	No Number	.	FUSE, (AF dwg No. 49A6549-1-3)(Burndy Engr No. F1L-3)	2	4-268
	No Number	.	FUSE, (AF dwg No. 49A6549-1-3)(Burndy Engr No. F1L-3)	1	4-268
-39	AN515-6R8	.	SCREW	2	4-268
-40	AN365-632	.	NUT	2	4-268
-41	A4255A1	.	LIGHT ASSEMBLY, Instrument (red) (less lamp) (Grimes) (to be supplied with bracket Grimes No.4244)	1	4-268
-42	AN3131-303	.	LAMP	1	4-268
-43	AN3106-24-11S	.	PLUG, (armament power)	1	4-268
	AN3057-16A	.	ADAPTER	1	4-268
-44	AN3106-24-7S	.	PLUG, (LH wing)	1	4-268
	AN3057-16A	.	ADAPTER	1	4-268
-45	AN3101-24-7S	.	RECEPTACLE, (LH wing wheel well)	1	4-268
	AN3057-16A	.	ADAPTER	1	4-268
-46	AN3106-16S1S	.	PLUG, (remote compass)	1	4-268
	AN3057-8A	.	ADAPTER	1	4-268
-47	AN3101-28-12S	.	RECEPTACLE, (fwd LH console)	1	4-268
	AN3057-16A	.	ADAPTER	1	4-268
-48	AN3101-28-11P	.	RECEPTACLE, (aft LH console)	1	4-268
	AN3057-16A	.	ADAPTER	1	4-268
-49	AN3100-16S1S	.	RECEPTACLE, (fuse panel)	1	4-268
	AN3057-8A	.	ADAPTER	1	4-268
-50	AN3101-28-12S	.	RECEPTACLE, (aft equip. panel)	1	4-268
-51	AN3106-28-12P	.	PLUG, (aft equipment panel)	1	4-268
	AN3057-16A	.	ADAPTER	2	4-268
-52	AN3101-22-14S	.	RECEPTACLE, (aft equip. panel)	1	4-268
-53	AN365-832	.	NUT	3	4-268
-54	AN515-8R8	.	SCREW	3	4-268
-55	NAS43DD3-12	.	SPACER, Screw	3	4-268
-56	430	.	HORN, Warning type J-2 (Spec No. 32462)(Faraday Elec) (Elec Service Mfg. Co. No. 78560 may be substituted)	1	4-268
-57	AN3021-2	.	SWITCH	1	4-80
-58	159-54161		PANEL ASSEMBLY, Electrical fuses (see fig. 54)	Ref	
-59	159-54068-3		PAD, Spare electrical lamps retaining (see fig. 54)	Ref	
-60	159-54068-5		PAD, Spare electrical lamps retaining (see fig. 54)	Ref	
-61	AN3100-18-1P		RECEPTACLE,(radio) (see fig. 178)	Ref	
-62	AN3150-2		BATTERY, (see fig. 150)	Ref	

*1 Parts marked thus not used on aircraft modified in accordance with T. O. 1T-28-50
*2 Parts marked thus not used on aircraft modified in accordance with T. O. 1T-28-50

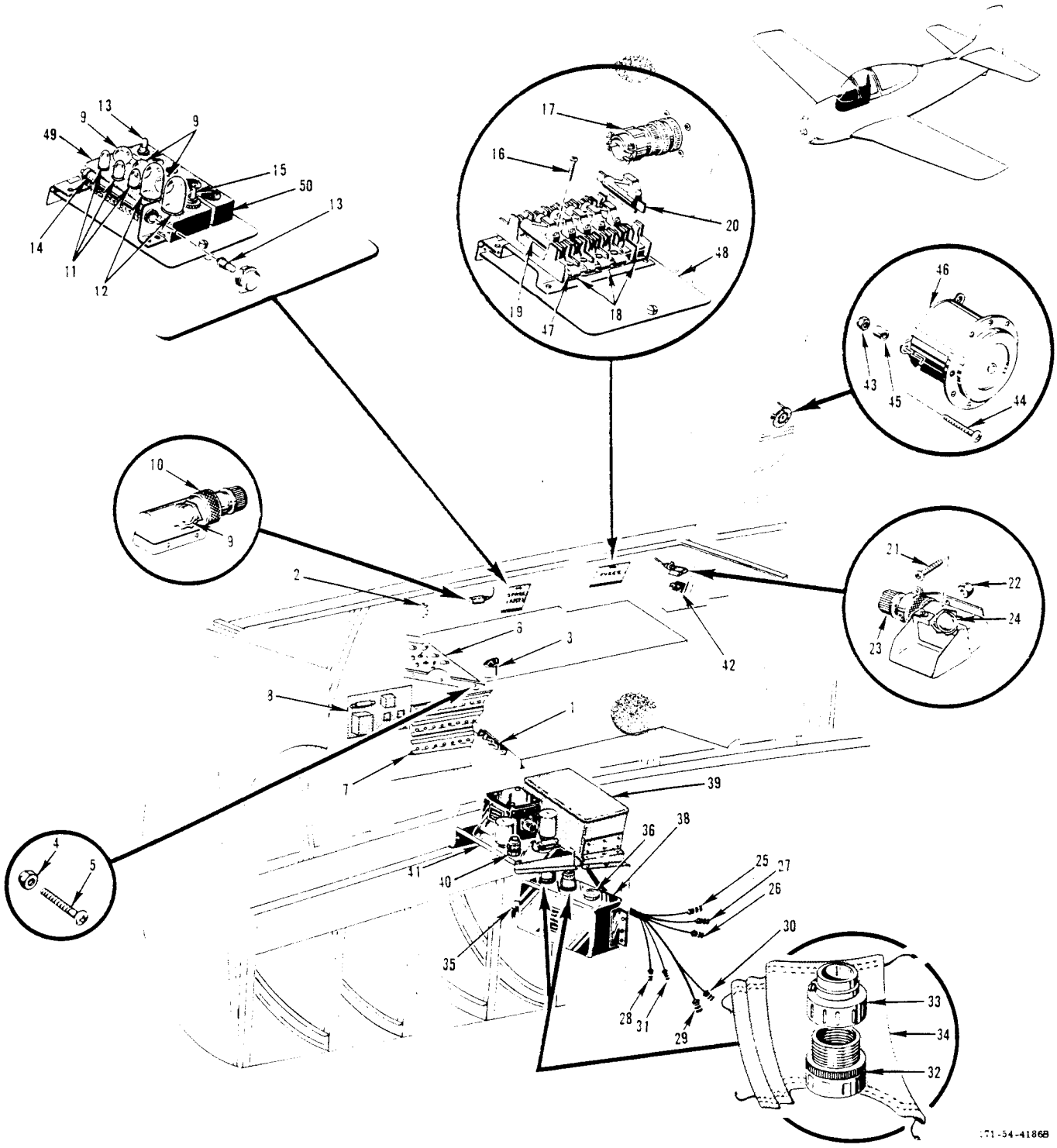


FIGURE 147 - FUSELAGE STATION 75 3/8 TO STATION 113 RH SIDE ELECTRICAL EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
147	No Number	FUSELAGE STATION 75 3/8 TO STATION 113 RH SIDE ELECTRICAL EQUIPMENT (see Figure 148 for next assembly)	NP	269-
-1	NAS45-616--	. PANEL ASSEMBLY, Electrical connector	1	394-
	AN3436-10--	. TERMINAL BLOCK ASSEMBLY	1	269-393
-2	AN3436-2-1	. TERMINAL BLOCK ASSEMBLY	1	269-
	AN936A6B	. WASHER	1	269-
	AN961-6	. WASHER	1	269-
	AN341-6	. NUT	1	269-

FUSELAGE ELECTRICAL (Cont')

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
147-3	AN3155-50-75	.	RHEOSTAT	1	269-
	EW1AL28-24-51	.	WASHER, Plain (North American)	1	269-
-4	AN365-632	.	NUT	3	269-
-5	AN515-6R8	.	SCREW	3	269-
-6	159-54325	.	PANEL ASSEMBLY, Electric forward cockpit switch complete (See figure 163 for detail breakdown)	1	269-393
	159-54325-10	.	PANEL ASSEMBLY, Electric forward cockpit switch complete (See figure 163 for detail breakdown)	1	394-
-7	171-54050	.	PANEL ASSEMBLY, Electric forward circuit breaker (see figure 164 for detail breakdown)	1	269-393
	171-54050-10	.	PANEL ASSEMBLY, Electric forward circuit breaker (See figure 164 for detail breakdown)	1	394-593
	171-54350	.	PANEL ASSEMBLY, Electric forward circuit breaker (See figure 165 for detail breakdown)	1	594-843
	171-54350-3	.	PANEL ASSEMBLY, Electric forward circuit breaker (See figure 165 for detail breakdown)	1	844-
-8	159-54090-10	.	PANEL ASSEMBLY, Electric forward cockpit equipment complete (See figure 166 for detail breakdown)	1	269-
-9	AN3121-303	.	LAMP	4	269-
-10	A-255A	.	LIGHT ASSY, Inst (red) (less lamp, shield & bracket)(Grimes)	1	269-
-11	AN3121-313	.	LAMP	3	269-
-12	28V8/360BL	.	LAMP, Ultra Violet (General Electric)	1	269-
-13	327	.	LAMP, T1 3/4 Bulb midget flange base (General Electric)	5	269-
-14	42953	.	CONTAINER ASSEMBLY, Spare lamp (Grimes)	1	269-
-15	AN3136-323	.	LAMP	3	269-
-16	AN507-832R10	.	SCREW	3	269-
-17	AN3106-16S1P	.	PLUG, (fuse panel)	1	269-
	AN3057-8A	.	ADAPTER	1	269-
-18	No Number	.	FUSE HOLDER ASSEMBLY (AF drawing No. -9065-8-3)	3	269-593
	No Number	.	FUSE HOLDER ASSEMBLY (AF drawing No. -9065-8-3)	3	594-
	No Number	.	FUSE HOLDER ASSEMBLY (AF drawing No. -9065-8-3)	2	844-
-19	No Number	.	FUSE (AF dwg No. X-9A65-9-1-1) (Burndy Engineering No. FIL1 may be substituted)	4	269-
-20	No Number	.	FUSE (AF dwg No.X-9A6549-1-3)(Burndy Eng No. FIL3 may be sub.)	2	269-593
	No Number	.	FUSE (AF drawing No. X49A6549-1-3)	3	594-
-21	AN515-6R8	.	SCREW	2	269-
-22	AN365-632	.	NUT	2	269-
-23	A-255A4	.	LIGHT ASSY, Instrument (red) (less lamp and shield) (Grimes). (Grimes A-255A1 may be substituted)	1	269-
-24	AN3121-303	.	LAMP	1	269-
-25	AN3106-24-11S	.	PLUG, (armament power)	1	269-
	AN3057-16A	.	ADAPTER	1	269-
-26	AN3106-24-7S	.	PLUG, (LH wing)	1	269-393
	AN3106-20-16S	.	PLUG, (LH wing)	1	394-
	AN3057-16A	.	ADAPTER	1	269-393
	AN3057-12A	.	ADAPTER	1	394-
-27	AN3101-24-7S	.	RECEPTACLE, (LH wing wheel well)	1	269-393
	AN3101-20-29S	.	RECEPTACLE, (LH wing wheel well)	1	394-
	AN3057-16A	.	ADAPTER	1	269-393
	AN3057-12A	.	ADAPTER	1	394-
-28	AN3106-16S1S	.	PLUG, (gyro compass transmitter)	1	269-
	AN3057-8A	.	ADAPTER	1	269-
-29	AN3106-28-12S	.	PLUG, (LH side panel)	1	269-
	AN3057-16A	.	ADAPTER	1	269-
-30	AN3106-28-11S	.	PLUG, (LH side panel)	2	269-
	AN3057-16A	.	ADAPTER	2	269-
-31	AN3106-22-14P	.	PLUG, (RH wing armament)	1	394-
	AN3057-12A	.	ADAPTER	1	394-
-32	AN3106-28-12S	.	PLUG	2	269-
-33	AN3057-16A	.	ADAPTER	2	269-
-34	144-54071	.	COVER ASSY, Electrical connector plug	2	269-393
-35	AN3108-18-1S	.	PLUG	1	269-
	AN3057-10A	.	ADAPTER	1	269-
-36	AN3054-20	.	NUT	1	269-
	2W1P0-53-62	.	WASHER, Plain (North American)	1	269-
-37	Deleted				
-38	9038	.	RELAY, Electrically reset latch (Leach Relay)	1	269-393
-39	9038	.	RELAY, Electrically reset latch (Leach Relay)	1	394-
-40	AN3106-24-28S	.	PLUG	1	394-
	AN3057-16A	.	ADAPTER	1	394-
	144-54071	.	COVER ASSEMBLY, Electrical connector plug	1	394-
-41	174-54085	.	PANEL ASSEMBLY, Electrical type C2 flasher complete (see figure 160 for detail breakdown)	1	394-
-42	AN3100-16S1S	.	RECEPTACLE, (fuse panel)	1	269-
	AN3057-8A	.	ADAPTER	1	269-
-43	AN365-832	.	NUT	3	269-693
-44	AN515-8R8	.	SCREW	3	269-693
-45	NAS43DD3-12	.	SPACER, Screw	3	269-693
-46	318	.	HORN, Warning type J2 (Spec No. 32462) (Edwards & Co.)	1	269-693
-47	3V7-12-24-4	.	BUS ASSEMBLY, Flex (Janco)	1	269-593
	3V7-12-24-5	.	BUS ASSEMBLY, Flex (Janco)	1	594-
-48	171-54070		PANEL ASSEMBLY,Electrical fuses (see figure 54)	Ref	
-49	159-54068-3		PAD, Spare electrical lamps retaining (see figure 54)	Ref	
-50	159-54068-5		PAD, Spare electrical lamps retaining (see figure 54)	Ref	

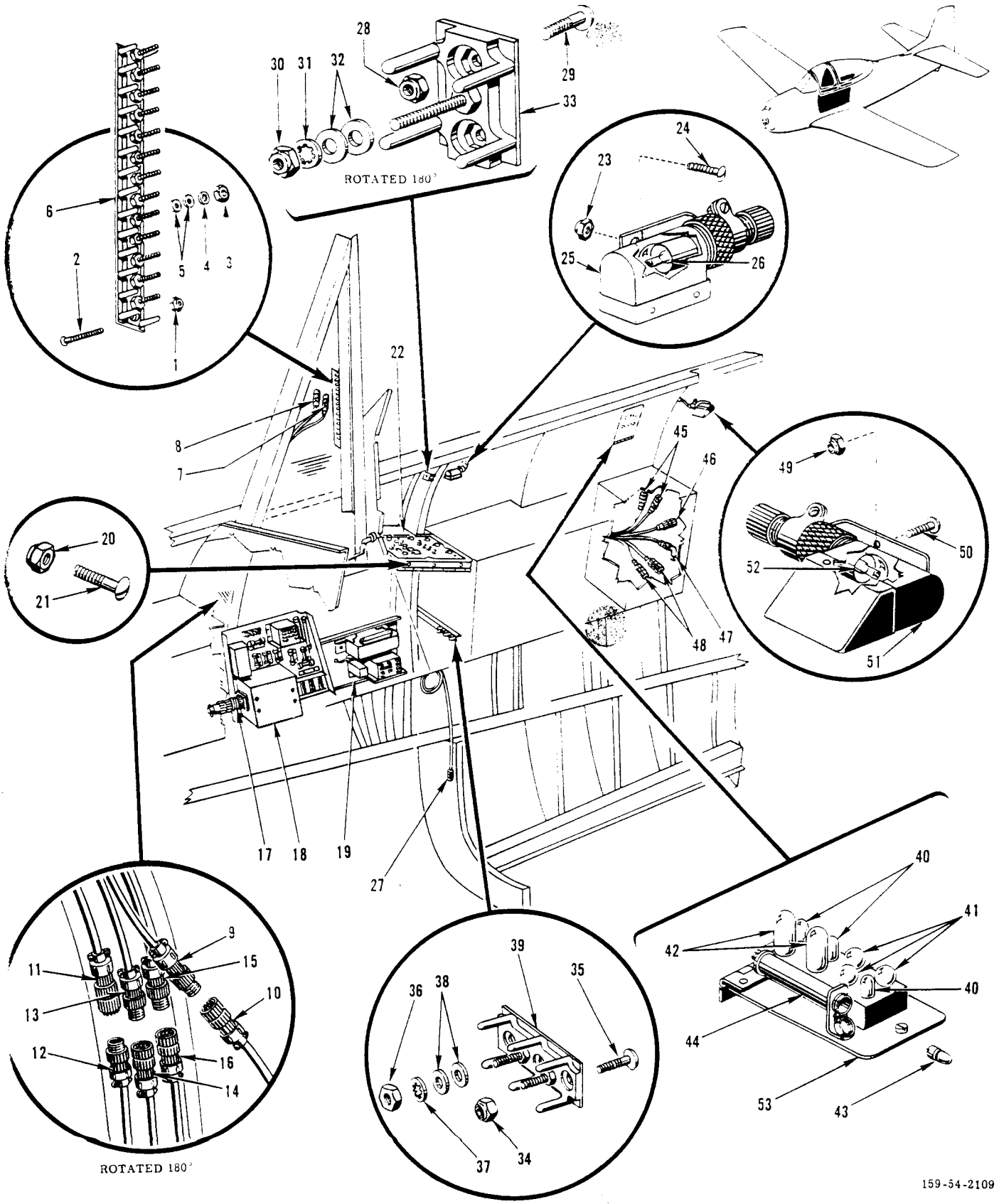


FIGURE 1-8 - FUSELAGE STATION 113 TO STATION 168 RH SIDE ELECTRICAL EQUIPMENT

FUSELAGE ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
148	No Number		FUSELAGE STATION 113 to STATION 168 RH SIDE ELECTRICAL EQUIPMENT (see figure 144 for next assembly)	NP	4-268
-1	AN365-440		. NUT	2	4-268
-2	AN515-4R7		. SCREW	2	4-268
-3	AN340-6		. NUT	13	4-268
-4	AN936A6		. WASHER	13	4-268
-5	AN960-6		. WASHER	26	4-268
-6	NAS45-6-13		. PANEL ASSEMBLY, Electric connector	1	4-268
-7	AN3101-24-28S		. RECEPTACLE, (aft instrument panel)	1	4-268
-8	AN3106-28-12S		. PLUG, (aft instrument panel)	1	4-268
	AN3057-16A		. ADAPTER	2	4-268
-9	AN3101-24-7S		. RECEPTACLE, (inverter panel)	1	4-268
-10	AN3106-24-7P		. PLUG, (inverter panel)	1	4-268
	AN3057-16A		. ADAPTER	2	4-268
-11	AN3101-20-29S		. RECEPTACLE, (aft switch panel)	1	4-268
-12	AN3106-20-29P		. PLUG, (aft switch panel)	1	4-268
-13	AN3101-22-14P		. RECEPTACLE, (aft switch panel)	1	4-268
-14	AN3106-22-14S		. PLUG, (aft switch panel)	1	4-268
-15	AN3101-20-29P		. RECEPTACLE, (aft switch panel)	1	4-268
-16	AN3106-20-29S		. PLUG, (aft switch panel)	1	4-268
	AN3057-12A		. ADAPTER	6	4-268
-17	AN3106-20-27S		. PLUG, (nose gear steering)	1	4-268
	AN3057-12A		. ADAPTER	1	4-268
-18	159-54101		. PANEL ASSEMBLY, Electrical aft cockpit equipment complete (see figure 165 for detail breakdown)	1	4-268
-19	159-54062		. PANEL ASSEMBLY, Electrical spare inverter (see figure 161 for detail breakdown)	1	4-268
-20	AN365-632		. NUT	3	4-268
-21	AN515-6R8		. SCREW	3	4-268
-22	159-54080		. PANEL ASSEMBLY, Electrical aft cockpit switch (see figure 163 for detail breakdown)	1	4-268
	159-54330		. PANEL ASSEMBLY, Electrical aft cockpit switch (see figure 163 for detail breakdown)	1	81-268
-23	AN365-632		. NUT	2	4-268
-24	AN515-6R8		. SCREW	2	4-268
-25	A4255A4	*	. LIGHT ASSY, Instrument (red) (less lamp and shield) (Grimes)	1	4-268
-26	AN3131-303		. LAMP	1	4-268
-27	AN3106-14S2S		. PLUG, (flap position transmitter)	1	4-268
	AN3057-6A		. ADAPTER	2	4-268
-28	AN365-440		. NUT	2	4-268
-29	AN515-4R8		. SCREW	1	4-268
-30	AN340-6		. NUT	1	4-268
-31	AN936A6		. WASHER	2	4-268
-32	AN960-6		. WASHER	1	4-268
-33	NAS45-6-1		. PANEL ASSEMBLY, Elec connector (aft console lights)	2	4-268
-34	AN365-440		. NUT	2	4-268
-35	AN515-4R6		. SCREW	2	4-268
-36	AN340-6		. NUT	2	4-268
-37	AN936A6		. WASHER	4	4-268
-38	AN960-6		. WASHER	1	4-268
-39	NAS45-6-2		. PANEL ASSY, Electrical connector	3	4-268
-40	AN3121-313		. LAMP	3	4-268
-41	AN3131-303		. LAMP	2	4-268
-42	F2T6/360BL		. LAMP, Ultra-violet (General Electric)	2	4-268
-43	327		. LAMP, T-1 3/4 Bulb midget flange base (General Electric)	1	4-268
-44	A2953		. CONTAINER ASSEMBLY, Spare lamp (Grimes)	2	4-268
-45	AN3106-14S5P		. PLUG, (gyro compass)	1	4-268
-46	AN3106-14S5P		. PLUG, (gyro compass)	3	4-268
	AN3057-6A		. ADAPTER	1	4-268
-47	AN3108-18-1S		. PLUG, (control shift relay)	1	4-268
	AN3057-10A		. ADAPTER	2	4-268
-48	AN3106-28-12S		. PLUG, (control shift relay)	2	4-268
	AN3057-16A		. ADAPTER	2	4-268
-49	AN365-632		. NUT	2	4-268
-50	AN515-6R8		. SCREW	1	4-268
-51	A4255A1	*	. LIGHT ASSY, Instrument (red) (less lamp) (Grimes)	1	4-268
-52	AN3131-303		. LAMP	Ref	4-268
-53	159-54160		PANEL ASSEMBLY, Spare lamp storage (see figure 54)		

* Items marked thus, to be supplied with bracket Grimes No. 4244

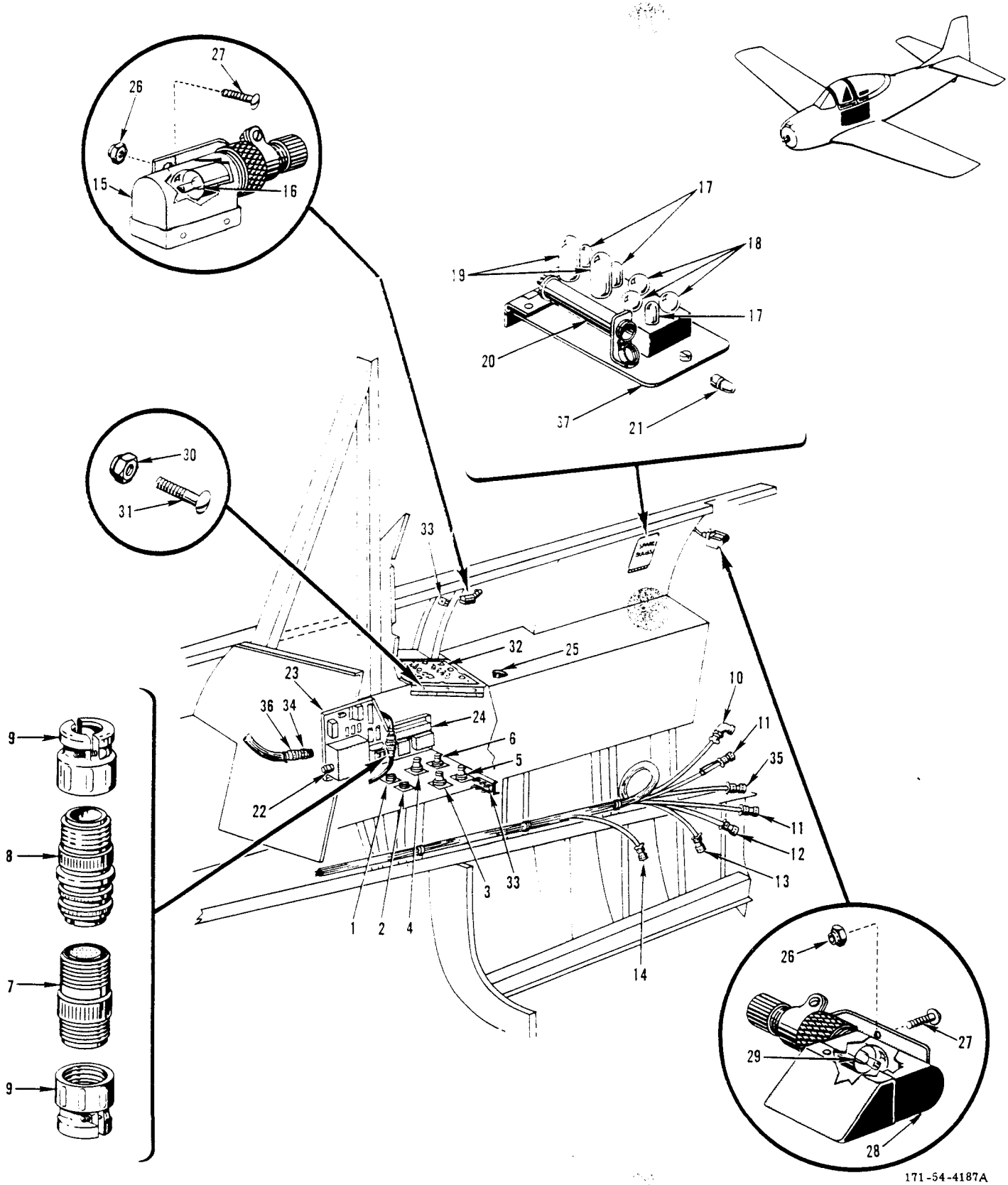


FIGURE 149 - FUSELAGE STATION 113 TO STATION 168 RH SIDE ELECTRICAL EQUIPMENT

FUSELAGE ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
149	No Number		FUSELAGE STATION 113 TO STATION 168 RH SIDE ELECTRICAL EQUIPMENT (see figure 145 for next assembly)	NP	269-
-1	AN3100-22-14S	.	RECEPTACLE	1	269-
	AN3057-12A	.	ADAPTER	1	269-
-2	AN3100-24-28S	.	RECEPTACLE	1	269-
	AN3057-16A	.	ADAPTER	1	269-
-3	AN3100-22-14P	.	RECEPTACLE	1	269-
	AN3106-22-14S	.	PLUG	1	269-
	AN3057-12A	.	ADAPTER	2	269-
-4	AN3100-24-28S	.	RECEPTACLE	1	269-
	AN3057-16A	.	ADAPTER	2	269-
-5	AN3100-28-12S	.	RECEPTACLE	1	269-
	AN3106-28-12P	.	PLUG	1	269-
	AN3057-16A	.	ADAPTER	2	269-
-6	AN3100-24-7S	.	RECEPTACLE	1	269-
	AN3106-24-7P	.	PLUG	1	269-
	AN3057-16A	.	ADAPTER	2	269-
-7	AN3101-24-28P	.	RECEPTACLE	1	269-
-8	AN3106-24-28S	.	PLUG	1	269-
-9	AN3057-16A	.	ADAPTER	2	269-
-10	AN3108-18-12S	.	PLUG, (gyro compass)	1	269-393
	AN3057-10A	.	ADAPTER	1	269-593
	AN3108-14S2S	.	PLUG	1	594-
	AN3057-6A	.	ADAPTER	1	594-
-11	AN3106-14S5P	.	PLUG, (gyro compass)	2	269-
	AN3057-6A	.	ADAPTER	2	269-
-12	AN3106-14S7S *1	.	PLUG, (inverter)	1	269-593
	AN3057-6A *1	.	ADAPTER	1	269-593
-13	AN3101-16S1S	.	RECEPTACLE	1	269-
	AN3057-8A	.	ADAPTER	1	269-
-14	AN3106-14S2S	.	PLUG, (wing flap position transmitter)	1	269-
	AN3057-6A	.	ADAPTER	1	269-
-15	A4255A4	.	LIGHT ASSY, Instrument (red) (less lamp and shield) (Grimes)	1	269-
-16	AN3131-303	.	LAMP	1	269-
-17	AN3121-313	.	LAMP	3	269-
-18	AN3131-303	.	LAMP	3	269-
-19	F2T6/360BL	.	LAMP, Ultra-violet (General Electric)	2	269-
-20	A2953	.	CONTAINER ASSEMBLY, Spare lamp (Grimes)	1	269-
-21	327	.	LAMP, T1 3/4 Bulb midget flange base (General Electric)	5	269-
-22	AN3106-20-27S	.	PLUG	1	269-
	AN3057-12A	.	ADAPTER	1	269-
-23	159-54101	.	PANEL ASSEMBLY, Electrical aft cockpit equipment complete (see figure 168 for detail breakdown)	1	269-593
	174-54100	.	PANEL ASSEMBLY, Electrical aft cockpit equipment (see figure 172 for detail breakdown)	1	594-893
	174-54100-10	.	PANEL ASSEMBLY, Electrical aft cockpit equipment (see figure 172 for detail breakdown)	1	394-
-24	159-54062	.	PANEL ASSEMBLY, Electrical spare inverter (see figure 161 for detail breakdown)	1	269-593
	174-54060	.	PANEL ASSEMBLY, Electrical resistor complete (see figure. 167 for detail breakdown)	1	594-
-25	AN3155-50-75	.	RHEOSTAT	1	269-
	2W1AL28-24-51	.	WASHER, Plain (North American)	1	269-
-26	AN365-632	.	NUT	4	269-
-27	AN515-6R8	.	SCREW	4	269-
-28	A4255A1	.	LIGHT ASSEMBLY, Instrument (red) (less lamp) (Grimes)	1	269-
-29	AN3131-303	.	LAMP	1	269-
-30	AN365-632	.	NUT	3	269-
-31	AN515-6R8	.	SCREW	3	269-
-32	159-54330	.	PANEL ASSEMBLY, Electrical aft cockpit switch complete (see figure 163 for detail breakdown)	1	269-393
	159-54330-10	.	PANEL ASSEMBLY, Electrical aft cockpit switch complete (see figure 163 for detail breakdown)	1	394-
-33	AN3436-2-1	.	TERMINAL BLOCK ASSEMBLY	2	269-
	AN936A6B	.	WASHER	2	269-
	AN961-6	.	WASHER	2	269-
	AN341-6	.	NUT	2	269-
-34	AN3101-20-29S	.	RECEPTACLE	1	269-
	AN3057-12A	.	ADAPTER	1	269-
-35	AN3106-14S5P	.	PLUG, (Gyro Compass)	1	269-
	AN3057-6A	.	ADAPTER	1	269-
-36	AN3106-20-29P		PLUG, Electrical connector straight (see figure 156)	Ref	
-37	159-54160		PANEL ASSEMBLY, Spare lamp stowage (see figure 54)	Ref	

*1 Parts marked thus not used on aircraft modified in accordance with T. O. 1T-28-50.

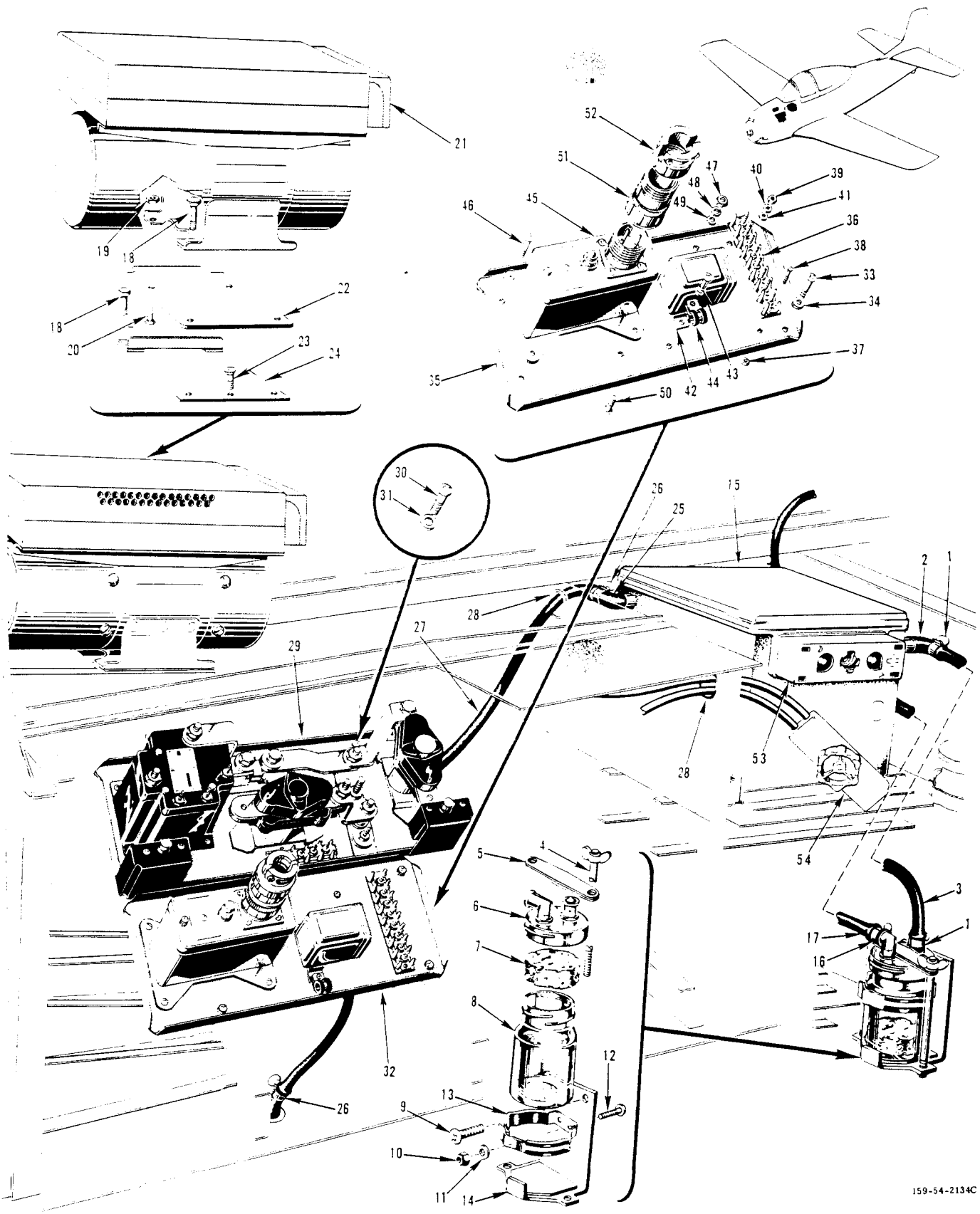


FIGURE 160 - FUSELAGE STATION 49 1/2 TO 87.875 LOWER RH ELECTRICAL EQUIPMENT

FUSELAGE ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
150			FUSELAGE STATION 49 1/2 TO 87.875 LOWER RH ELECTRICAL EQUIPMENT		
	No Number	.	BATTERY EQUIPMENT (see figure 153 for next assembly)	NP	4-268
-1	AN737-30	. .	CLAMP	2	4-268
-2	9555	. .	ELBOW, Battery vent quick disconnect (Paul Henry)	1	4-268
-3	159-54225-3	. .	VENT TUBE, Battery outlet	1	4-268
-4	5B23	. .	BOLT, Battery vent outlet sump (North American)	2	4-268
-5	174-54058	. .	PLATE ASSY, Battery sump jar	1	4-268
-6	HP600-4(I32) (E53-30°D).	. .	COVER, Sump jar (Olympic Plastics)	1	4-268
-7	82-54444	. .	SPONGE, Battery vent trap	1	4-268
-8	Comm	. .	JAR, Pint mason	1	4-268
-9	AN520-10R10	. .	SCREW	3	4-268
-10	AN365-832	. .	NUT	1	4-268
-11	AN960D8	. .	WASHER	1	4-268
-12	AN509-8R7	. .	SCREW	1	4-268
-13	A5934-51	. .	CLAMP, Sump jar (Tinnerman)	1	4-268
-14	174-54059	. .	BRACKET ASSEMBLY, Battery sump jar	1	4-268
	159-54037	.	ELECTRICAL EQUIPMENT INSTALLATION, Miscellaneous (see figure 1 for next assembly)	NP	4-268
-15	AN3150-2	. .	BATTERY (GFAE)	1	4-268
	No Number	.	FUSELAGE STATION 49 1/2 TO 87.875 LOWER RH ELECTRICAL EQUIPMENT (see figure 144 for next assembly)	NP	4-268
-16	AN737-30	. .	CLAMP	1	4-268
-17	159-54225-5	. .	VENT TUBE, Battery outlet	1	4-268
-18	AN3-5A	. .	BOLT	1	4-268
-19	AN365-1032	. .	NUT	2	4-268
-20	AN507-1032R8	. .	SCREW	2	4-268
-21	AN3513-1	. .	INVERTER ASSY, Class "A" 500 volt ampere single phase (AERNO 42-2215) (GFAE) (Ellipse Pioneer No. 18E33-1A may be substituted	1	4-268
-22	159-54362	. .	PLATE, Electrical inverter mounting	1	4-268
-23	AN507-832R7	. .	SCREW	4	4-268
-24	159-54360	. .	SUPPORT ASSEMBLY, Electrical inverter	1	4-268
-25	9555	. .	ELBOW, Battery vent quick disconnect (Paul Henry)	1	4-268
-26	AN737-30	. .	CLAMP	2	4-268
-27	159-54224	. .	VENT TUBE, Battery inlet	1	4-268
-28	295134-20A	. .	GROMMET, Battery vent tubing (United-Carr)	2	4-268
-29	159-54111	. .	PANEL ASSY, Electrical engine power junction upper (see figure 169 for detail breakdown)	1	4-268
	ATTACHING PARTS				
-30	AN520-10R8	. .	SCREW	4	4-268
-31	AN960D10	. .	WASHER	4	4-268
	---*---				
-32	159-54114	. .	PANEL ASSEMBLY, Elec engine power junction lower complete.	1	4-268
	ATTACHING PARTS				
-33	AN520-10R8	. .	SCREW	4	4-268
-34	AN960D10	. .	WASHER	4	4-268
	---*---				
-35	159-54109	. . .	PANEL ASSY, Electrical engine power junction lower	1	4-268
-36	NAS45-6-8	. . .	PANEL ASSY, Electrical connector	1	4-268
-37	AN365-440	. . .	NUT	2	4-268
-38	AN515-4-6	. . .	SCREW	2	4-268
-39	AN340-6	. . .	NUT	3	4-268
-40	AN936A6	. . .	WASHER	3	4-268
-41	AN960D6	. . .	WASHER	3	4-268
-42	No Number	. . .	RELAY, Over voltage generator 28 volt DC type E-2 (Spec 32591) (GFAE) (AERNO 42-1520)	1	4-268
	ATTACHING PARTS				
-43	AN520-10-10	. . .	SCREW	3	4-268
-44	AN742D8C	. . .	CLIP	1	4-268
	---*---				
-45	No Number	. . .	RELAY, Field control generator 24 volt DC type M-2 (Spec 32603) (GFAE) (AERNO 42-1530) (for a list of detail parts refer to T.O. 03-5A-18)	1	4-268
	ATTACHING PARTS				
-46	AN520-10-10	. . .	SCREW	4	4-268
	---*---				
-47	AN340-8	. . .	NUT	2	4-268
-48	AN935-8	. . .	WASHER	2	4-268
-49	AN960D8	. . .	WASHER	2	4-268
-50	AN515-8-16	. . .	SCREW	1	4-268
-51	AN3106-24-7S	. .	PLUG (generator field control relay)	1	4-268
-52	AN3057-16A	. .	ADAPTER	1	4-268
-53	11749		KIT, Battery (GFAE) (furnished with battery)	Ref	
-54	11751		PLUG, Battery (GFAE) (furnished with battery)	Ref	

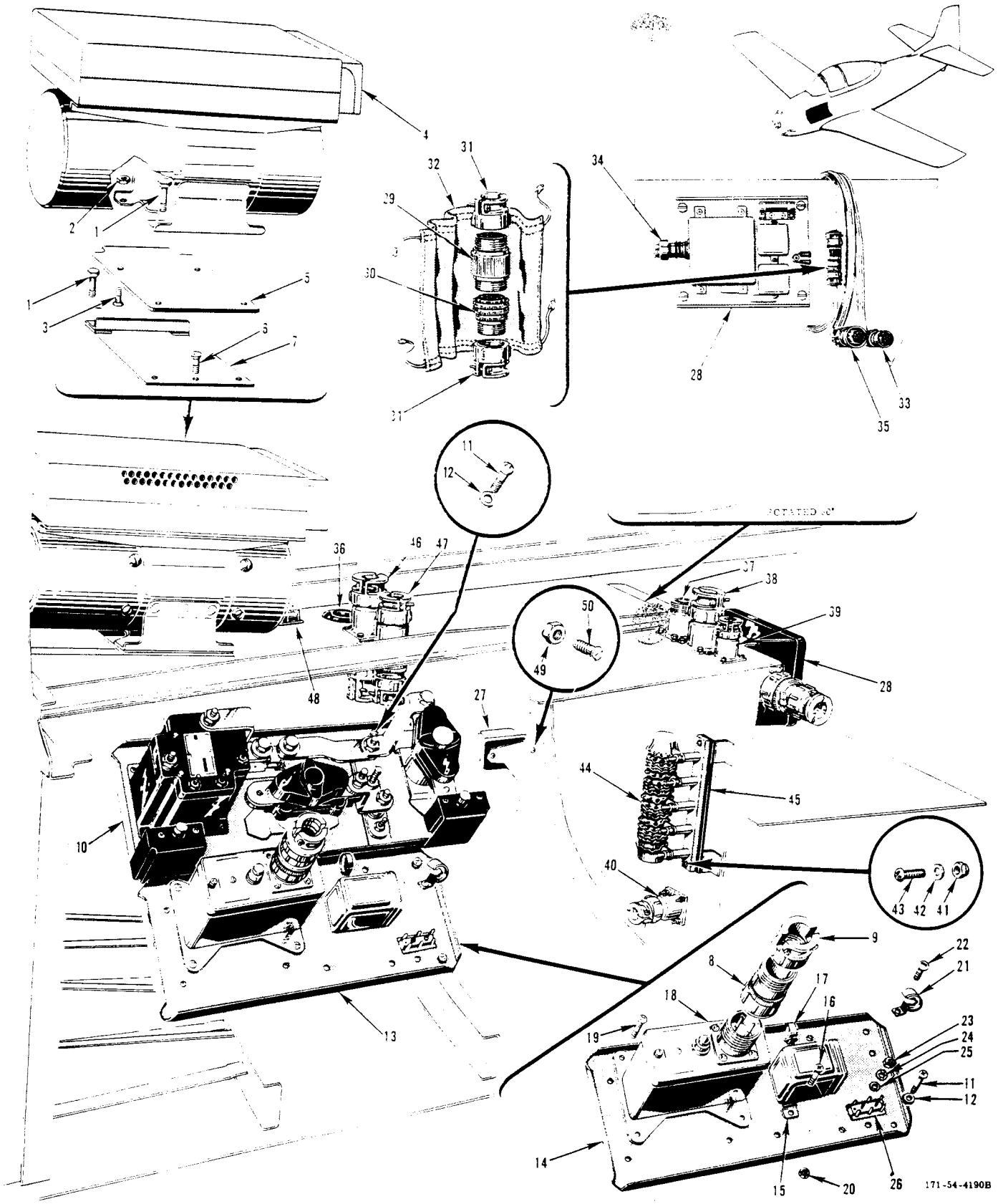


FIGURE 151 - FUSELAGE STATION -9 1/2 TO 87.875 LOWER RH ELECTRICAL EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
151	No Number		FUSELAGE STATION 49 1/2 to 87.875 LOWER RH ELECTRICAL EQUIPMENT (see figure 1-6 for next assembly)	NP	269-
-1	AN3-5A	.	BOLT	4	269-
-2	AN365-1032	.	NUT	2	269-
-3	AN507-1032R8	.	SCREW	2	269-
-4	AN3513-1 *2	.	INVERTER ASSY, (GFAE (Eclipse-Pioneer 13E33-1A, AN3533-1 or Jack & Heintz F20 or F20-- may be sub)(AERNO 42-2215)	1	269-
	AN3499-1	.	INVERTER ASSY, Inst class "A" 100 volt ampere 3 phase (GFAE)	1	*1
	AN3106-14S7S	.	PLUG, (inverter)	1	*1
	AN3057-6A	.	ADAPTER	1	*1
-5	159-54362	.	PLATE, Electrical inverter mounting	1	269-
-6	AN507-832R7	.	SCREW	4	269-
-7	159-54360	.	SUPPORT ASSEMBLY, Electrical inverter	1	269-
-8	AN3106-24-7S	.	PLUG, (gen field control relay)	1	269-
-9	AN3057-16A	.	ADAPTER	1	269-
-10	171-54055	.	PANEL ASSY, Electrical engine power junction upper (see figure 169 for detail breakdown)	1	269-
-11	AN520-10R8	.	SCREW	8	269-
-12	AN960D10	.	WASHER	8	269-
-13	159-54114-10	.	PANEL ASSY, Elec engine power junction lower complete	1	269-
-14	159-54109-10	. .	PANEL ASSY, Electrical engine power junction lower	1	269-
-15	No Number	. .	RELAY, Over voltage generator 28 volt DC type E-2 (Spec. 33591) (GFAE)(AERNO 42-1520)	1	269-
	ATTACHING PARTS				
-16	AN520-10-10	. .	SCREW	3	269-
-17	A3125-2H	. .	CLAMP, (Tinnerman)	1	269-
	---*---				
-18	No Number	. .	RELAY, Field control generator 24 volt DV type M-2 (Spec. 33603) (GFAE (AERNO 42-1530) (for a list of detail parts refer to T.O. 03-5A-16)	1	269-
	ATTACHING PARTS				
-19	AN520-10-10	. .	SCREW	4	269-
	---*---				
-20	AN365-832	. .	NUT, Self locking 250°F	1	269-
-21	A3125-2H	. .	CLAMP, (Tinnerman)	1	269-
-22	AN515-8R6	. .	SCREW	1	269-
-23	AN340-6	. .	NUT	1	269-
-24	AN936A6	. .	WASHER	1	269-
-25	AN960D6	. .	WASHER	2	269-
-26	MA345-6-2	. .	PANEL ASSEMBLY, Electrical connector	1	269-
-27	AN3320-1	.	RELAY	1	*1
-28	159-54085-10	.	PANEL ASSEMBLY, Electrical type D-2 flasher (see figure 161 for detail breakdown)	1	269-393
-29	AN3101-16S1S	.	RECEPTACLE	1	269-393
-30	AN3106-16S1P	.	PLUG	1	269-393
-31	AN3057-8A	.	ADAPTER	1	269-393
-32	144-54071	.	COVER ASSY, Electrical connector plug	1	269-393
-33	AN3101-20-21S	.	RECEPTACLE, (RH wing disconnect)(refer to T.O. 01-60FG-37)	1	269-393
-34	AN3106-16S8S	.	PLUG	1	269-393
	AN3057-8A	.	ADAPTER	1	269-393
-35	AN3106-24-7S	.	PLUG, (RH wing disconnect)	1	269-393
	AN3057-16A	.	ADAPTER	1	269-393
-36	29513-20A	.	GROMMET,(United-Carr)	1	269-
-37	AN3100-20-16S	.	RECEPTACLE	1	394-
-38	AN3100-22-1-S	.	RECEPTACLE	1	394-
	AN3057-12A	.	ADAPTER	2	394-
	144-54071	.	COVER ASSY, Electrical connector plug	1	394-
-39	AN3100-18-1S	.	RECEPTACLE	1	394-
	AN3057-10A	.	ADAPTER	1	394-
	144-54071	.	COVER ASSY, Electrical connector plug	1	394-
-40	AN3100-16-10S	.	RECEPTACLE	1	394-
	AN3106-16-10P	.	PLUG	1	394-
	AN3057-8A	.	ADAPTER	2	394-
-41	AN365-1032	.	NUT	2	394-
-42	AN960D10	.	WASHER	2	394-
-43	AN520-10R12	.	SCREW	2	394-
	159-54370	.	RESISTOR ASSEMBLY, Electrical fuel pump	1	394-
-44	29942	. .	RESISTOR,(Ohmite)	1	394-
-45	159-54368	.	INSULATOR, Electrical fuel pump resistor	1	394-
-46	AN3100-24-7P	.	RECEPTACLE	1	269-
	AN3106-24-7S	.	PLUG	1	269-
	AN3057-16A	.	ADAPTER	2	269-
	144-54071	.	COVER ASSY, Electrical connector plug	1	269-
-47	AN3100-20-16S	.	RECEPTACLE	1	269-
	AN3106-20-16P	.	PLUG	1	269-
	AN3057-12A	.	ADAPTER	2	269-
	144-54071	.	COVER ASSEMBLY, Electrical connector plug	1	269-
-48	AN3436-2-4 *1	.	TERMINAL BLOCK ASSEMBLY	1	*1
	AN936A6B *1	.	WASHER	4	*1
	AN961-6 *1	.	WASHER	4	*1
	AN341-6 *1	.	NUT	4	*1
-49	AN365-1032 *1	.	NUT	2	*1
-50	AN520-10R10 *1	.	SCREW	2	*1

*1 Used on airplanes 253-393, 397-695 when not modified in accordance with T. O. 1T-28-50.
*2 Used on airplanes modified in accordance with T. O. 1T-28-50.

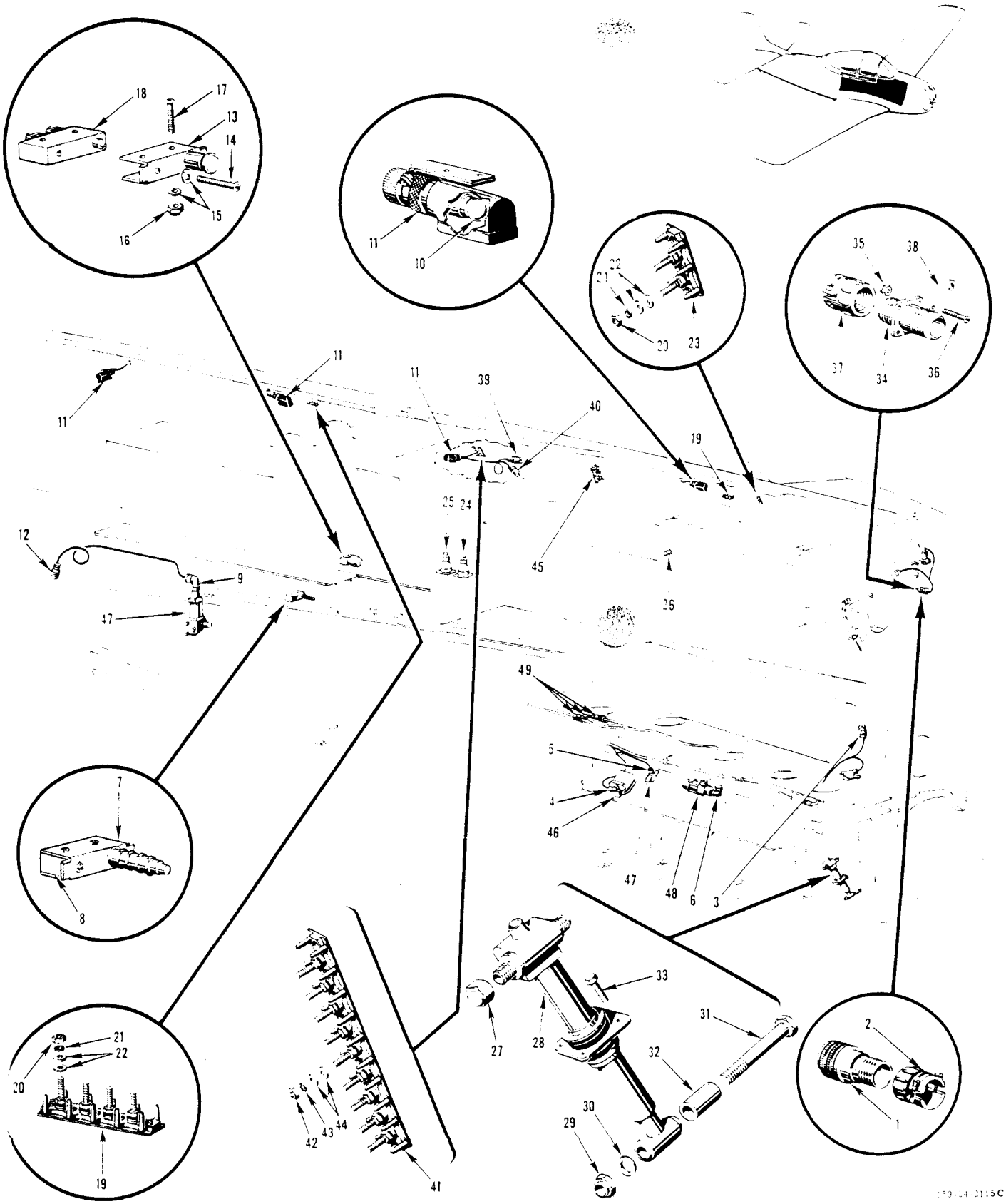


FIGURE 152 - FUSELAGE STATION 49 1/2 TO 168 LH SIDE ELECTRICAL EQUIPMENT

FUSELAGE ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
152	159-54030		ELECTRICAL EQUIPMENT INSTL, Fuselage station +9 1/2 to 168 LH side (see figure 62 for next assembly)	NP	4-80
	159-54530		ELECTRICAL EQUIPMENT INSTL, Fuselage station +9 1/2 to 168 LH side (see figure 62 for next assembly)	NP	81-268
	171-54030		ELECTRICAL EQUIPMENT INSTL, Fuselage station +9 1/2 to 168 LH side (see figure 62 for next assembly)	NP	269-393
	174-54030		ELECTRICAL EQUIPMENT INSTL, Fuselage station +9 1/2 to 168 LH side (see figure 62 for next assembly)	NP	394-
-1	AN3106-14S2P	.	PLUG	1	
-2	AN3057-6A	.	ADAPTER	1	
-3	AN3106-18-10S	.	PLUG, cockpit heater ram air pressure	1	
	AN3057-10A	.	ADAPTER	1	
-4	AN3106-10SL4S	.	PLUG	1	
	AN3057-4A	.	ADAPTER	1	
-5	AN3106-10S2S	.	PLUG	1	
	AN3057-3A	.	ADAPTER	1	
-6	AN3106-10S2S	.	PLUG	1	
	AN3057-3A	.	ADAPTER	1	
-7	AN3166-1	.	ACTUATOR, (Micro switch No. MS7118 may be used	1	
-8	AN3210-1	.	SWITCH, (Flap hydraulic pressure limit	1	
-9	AN3106-10S2S	.	PLUG	1	
	AN3057-3A	.	ADAPTER	1	
-10	AN3131-303	.	LAMP	1	
-11	4-[illegible]	.	LIGHT ASSY, Instrument (Grimes) (to be supplied with bracket Grimes No. 424-)	1	
-12	AN3106-12S3S	.	PLUG, (canopy pressure safety switch	1	-268
	AN3106-12S3S	.	PLUG, (canopy pressure safety switch	1	269-
	AN3057-4A	.	ADAPTER	1	
-13	AN3166-1	.	ACTUATOR	1	-268
	ATTACHING PARTS				
-14	AN515-6R7	.	SCREW	2	-268
-15	AN960D6	.	WASHER	4	-268
-16	AN365-632	.	NUT	2	-268
-17	AN515-6R18	.	SCREW	2	-268
	---*---				
-18	AN3210-1	.	SWITCH	1	-268
	[illegible]	.	SWITCH, (Micro Switch) Flap hydraulic pressure limit	1	269-
-19	MAS-5-6-4	.	PANEL ASSEMBLY, Electrical connector	2	-268
	AN3436-2-4	.	TERMINAL BLOCK ASSEMBLY	2	269-[illegible]
	AN3436-2-4	.	TERMINAL BLOCK ASSEMBLY	1	[illegible]
	AN3436-2-6	.	TERMINAL BLOCK ASSEMBLY	1	[illegible]
-20	AN340-6	.	NUT	10	4-268
	AN341-6	.	NUT	10	269-
-21	AN936A6	.	WASHER	10	4-268
	AN936A6B	.	WASHER	10	269-
-22	AN960-6	.	WASHER	20	4-268
	AN961-6	.	WASHER	10	269-
-23	MAS-5-6-2	.	PANEL ASSEMBLY, Electrical connector	1	4-268
	AN3436-2-2	.	TERMINAL BLOCK ASSEMBLY	1	269-
-24	AN3100-28-12P	.	RECEPTACLE	1	269-
-25	AN3100-28-11P	.	RECEPTACLE	1	269-
	AN3057-16A	.	ADAPTER	2	269-
-26	AN3436-2-3	.	TERMINAL BLOCK ASSEMBLY	1	269-
	AN341-6	.	NUT	3	269-
	AN936A6B	.	WASHER	3	269-
	AN961-6	.	WASHER	3	269-
-27	M836	.	CAP, Bowl flap mechanism assembly (Air Associates)	1	
-28	WM4-600	.	JACK ASSEMBLY, Oil cooler screw (Air Associates)	1	
	ATTACHING PARTS				
-29	AN365-428	.	NUT	1	
-30	AN960D416	.	WASHER	1	
-31	AN--14A	.	BOLT	1	
-32	159-31585	.	SPACER, Engine bowl flap actuator attaching	1	
-33	AN4--4A	.	BOLT	4	
	---*---				
-34	AN3100-14S2S	.	RECEPTACLE	1	
-35	AN365-440	.	NUT	4	
-36	AN515-4R8	.	SCREW	4	
-37	AN3057-6A	.	ADAPTER	1	
-38	217-2	.	LUG, Safety (North American)	1	
-39	AN3106-28-12P	.	PLUG, (RH side panel)	1	4-268
-40	AN3106-28-11S	.	PLUG, (RH side panel	1	4-268
	AN3057-16A	.	ADAPTER	2	4-268
-41	MAS45-6-9	.	PANEL ASSEMBLY, Electrical connector	2	4-268
-42	AN340-6	.	NUT	18	4-268
-43	AN936A6	.	WASHER	18	4-268
-44	AN960-6	.	WASHER	36	4-268
-45	AN3436-2-2	.	TERMINAL BLOCK ASSEMBLY	1	694-
-46	MS54-02		VALVE ASSY, Nose wheel steering (Bertea Product) (see fig. 127).	Ref	
-47	SS74-01		VALVE ASSY, Solenoid slide (Bertea Product) (see figure 127)	Ref	
-48	20385		VALVE ASSY, 1500 PSI solenoid by-pass (Adel Precision) (see figure 119 and 123)	Ref	
-49	See Wing Electrical Equipment (see figure 40)			Ref	

FUSELAGE ELECTRICAL (Cont)

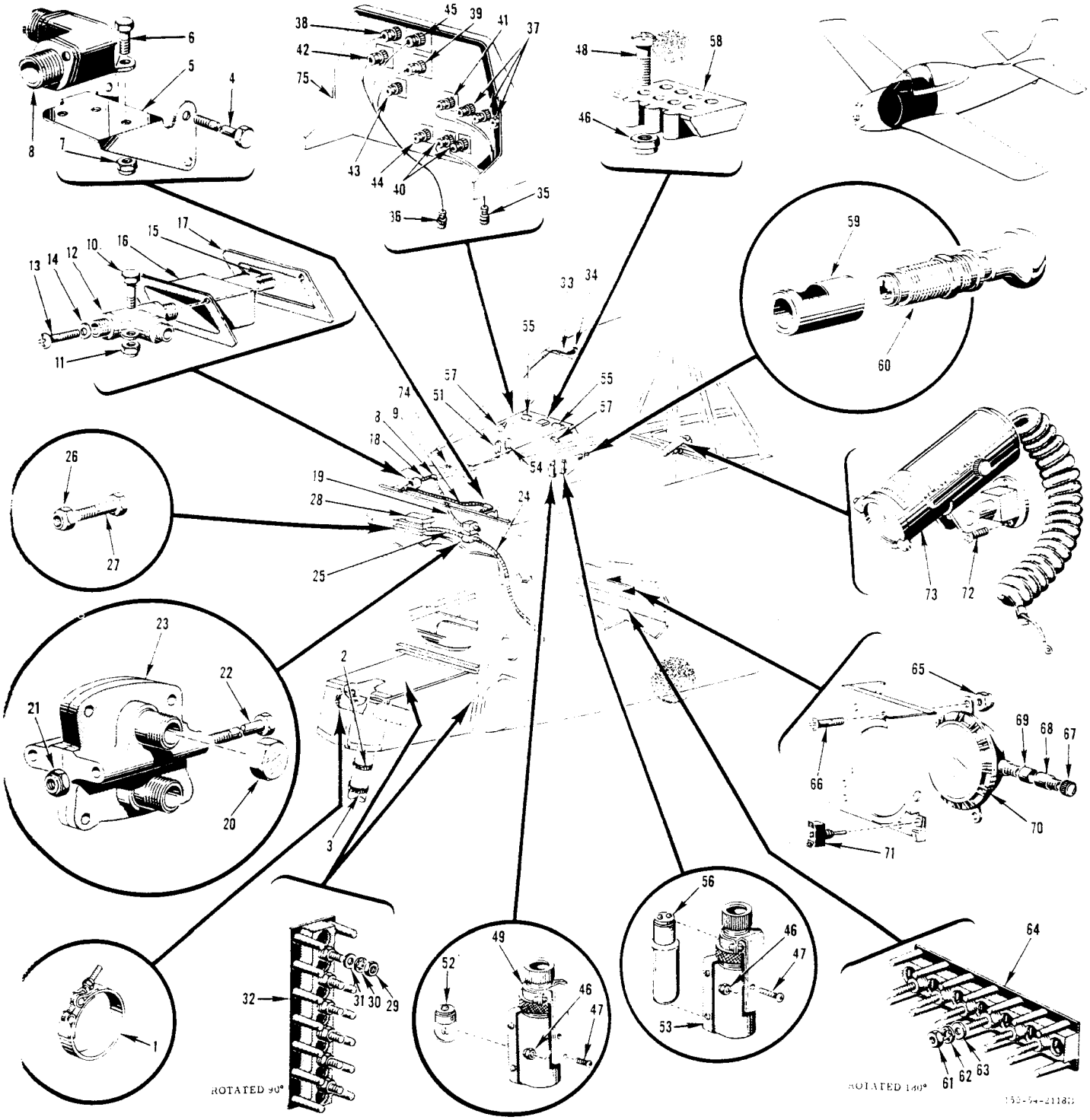


FIGURE 183 - FUSELAGE STATION 49 1/2 TO STATION 168 ELECTRICAL EQUIPMENT COMPLETE

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
83	158-54-21-	ELECTRICAL EQUIPMENT INSTL, Fuselage station 49 1/2 to station 168 complete (See figure 81 for next assembly)	NP	--2cc
	No Number	. FUSELAGE STATION 111 TO STATION 168 ELECTRICAL EQUIPMENT . . . (See figure 185 for detail breakdown)	NP	--2dd
	No Number	. BATTERY EQUIPMENT (See figure 181 for detail breakdown). . . .	NP	--2cc
-1	MS20-025-1.500S	. LAMP, light weight T-2cil (Marman Products)	1	--2dd
-2	MS20-025-1.250S	. LAMP, light weight T-2cil (Marman Products)	2	--2cc
-3	MS20-025-3.500S	. LAMP, light weight T-2cil (Marman Products)	1	--2cc
-4	AN3-27A	. BOLT	2	--2cc
-5	158-54-130	. BRACKET, Elec conn Mtg 90° inline Fus sta 49.5 LH sub. . . .	1	--2cc

FUSELAGE ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
159-2	AN3-5A		.	BOLT	4	4-268
-7	AN365-1032		.	NUT	4	4-268
-8	WM2-599		.	DRIVE ASSY, Right angle (Air Associates) (Lear Aviation No. 740A may be sub.)	2	4-268
-9	WM2-51-M25		.	SHAFT, Flexible (12 3/4") (Air Associates)	1	4-268
-10	AN3-4A		.	BOLT	2	4-268
-11	AN365-1032		.	NUT	2	4-268
-12	M21339		.	DRIVE "T", 1 to 1 Ratio (Air Associates)	1	4-268
-13	AN525-10R14		.	SCREW	2	4-268
-14	AN960-10L		.	WASHER	2	4-268
-15	159-54152		.	BRACKET, Electrical bowl flap drive fuselage station +9.5	1	4-268
-16	159-54148		.	BOOT, Electrical bowl flap drive fuselage station +9.5	1	4-268
-17	159-54146		.	RETAINER ASSY, Elec bowl flap drive fus station +9.5 boot	1	4-268
-18	WM2-51-M26		.	SHAFT, Flexible (2 3/4")(Air Associates)	1	4-268
-19	WM2-51-M24		.	SHAFT, Flexible (10 1/16") (Air Associates)	1	4-268
-20	M599		.	JAF, bowl flap mechanism (Air Associates)	1	--268
-21	AN365-428		.	NUT	2	4-268
-22	AN4-24A		.	BOLT	2	--268
-23	M107CM104		.	DRIVE ASSEMBLY, "H" (Air Associates)	1	--268
-24	WM2-51-M23		.	SHAFT, Flexible (55") (Air Associates)	1	--268
-25	WM2-51-M22		.	SHAFT, Flexible (6 1/2") (Air Associates)	1	--268
-26	AN365-1032		.	NUT	4	4-268
-27	AN3-4A		.	BOLT	4	--268
-28	WEE--371		.	POWER UNIT, 21lb Frame (Air Associates)(North American No. 159-55-215)	1	4-268
-29	AN3-5-6		.	NUT	10	4-268
-30	AN935A6		.	WASHER	10	4-268
-31	AN960-6		.	WASHER	10	4-268
-32	NAS-5-6-6		.	PANEL ASSEMBLY, Electrical connector	3	--268
-33	[illegible]-366		.	TUBE, Standby compass electric wiring	1	--268
-34	[illegible]-5		.	PLUG ASSEMBLY, Inst electric (Cannon Electric)	1	4-268
-35	AN3101-28-12P	*	.	RECEPTACLE, (Instrument panel)	2	4-268
-36	AN3106-24-28P	*	.	PLUG, (Instrument panel)	2	4-268
	AN3057-16A	*	.	ADAPTER	4	--268
-37	AN3106-10SL3S	*	.	PLUG, (LH position lights)	2	4-268
-38	AN3106-10SL3S	*	.	PLUG, (attitude gyro)	2	4-268
-39	AN3106-10SL3S	*	.	PLUG, (bank and turn indicator)	2	--268
	AN3057-4A	*	.	ADAPTER	12	--268
-40	AN3106-14S2S	*	.	PLUG, (fuel level indicator LH and RH tank)	4	--268
-41	AN3106-14S1S	*	.	PLUG, (flap position indicator)	2	4-268
-42	AN3106-10SL3S	*	.	PLUG, (tachometer)	2	--268
-43	AN3106-14S2S	*	.	PLUG, (OAT)	2	4-268
-44	AN3106-14S2S	*	.	PLUG, (oil temperature)	2	4-268
-45	AN3106-14S5S	*	.	PLUG, (compass)	2	4-268
	AN3057-6A	*	.	ADAPTER	12	4-268
-46	AN365-632		.	NUT	5	4-268
-47	AN515-6R7		.	SCREW	4	4-268
-48	AN515-6R10		.	SCREW	2	4-268
-49	A4255A4		.	LIGHT ASSY, Inst (red) (less lamp, shield) (Grimes)	1	4-268
-50	Deleted					
-51	A4255A5		.	LIGHT ASSY, Instrument (red) (less lamp, bracket)	1	4-268
-52	AN3131-303		.	LAMP	4	4-268
-53	B4235A1	**	.	LIGHT ASSY, Ultra-violet cockpit (less lamp)(Grimes)	1	4-268
-54	B4235A5		.	LIGHT ASSY, Ultra-violet cockpit (less lamp, bracket) (Grimes)	1	4-268
-55	B4235A7		.	LIGHT ASSY, Ultra-violet cockpit (less lamp, shield, bracket) (Grimes)	2	4-268
-56	F2T6/360BL		.	LAMP, Ultra-violet (General Electric)	4	4-268
-57	A4255A7		.	LIGHT ASSY, Instrument (red) (less lamp, shield, bracket) (Grimes)	2	4-268
-58	2-141		.	TERMINAL STRIP, (Howard B. Jones)	1	4-268
-59	159-318245		.	COVER, Pilot's enclosure emergency stop switch	1	4-268
-60	159-54297		.	SWITCH ASSY, Elec canopy emer stop(altered from Robert Hetherington A6C2R)	1	4-268
-61	AN340-6		.	NUT	6	4-268
-62	AN936A6		.	WASHER	6	4-268
-63	AN960-6		.	WASHER	6	4-268
-64	NAS45-6-6		.	PANEL ASSEMBLY, Electrical connector	1	4-268
-65	AN365-832		.	NUT	3	4-268
-66	AN515-8R8		.	SCREW	3	4-268
-67	AN3054-4		.	NUT	1	4-268
-68	SA1204A		.	CONNECTOR, Vapor proof lamp type A-7 (Standard Aircraft)	1	4-268
-69	SA1286		.	SPACER, Insulating tube (Standard Aircraft)	1	4-268
-70	AN3039-2		.	LIGHT ASSEMBLY	1	4-268
-71	AN3021-2		.	SWITCH	1	4-268
-72	AN515-8R8		.	SCREW	2	4-268
-73	10245-1		.	LIGHT ASSEMBLY, Cockpit type C4A (Spec 94-32294D) (Soderberg. No. 10245 or Standard Thompson A4297D1 may be sub.)	1	4-268
-74	NAS45-6-1		.	PANEL ASSEMBLY, Elec connector	1	4-268
-75	159-51005			PANEL ASSEMBLY, Pilot's instrument complete (see fig. 99)	Ref	

* Items marked thus, used on both forward and rear instrument panels.
** Item marked thus, to be supplied with bracket Grimes No. 4244.

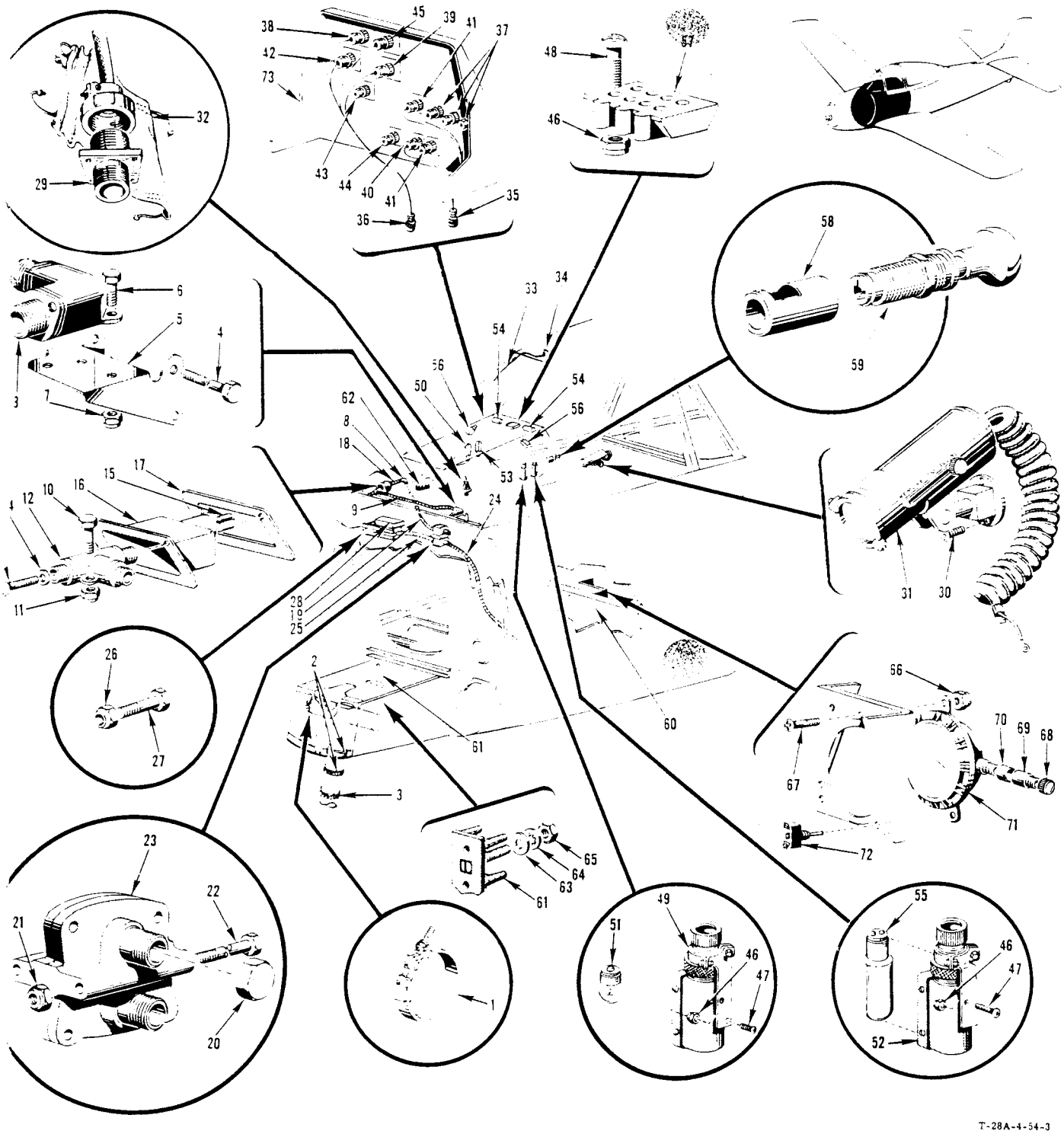


FIGURE 154 - FUSELAGE STATION +9 1/2 TO STATION 168 ELECTRICAL EQUIPMENT COMPLETE

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
154	171-54034	ELECTRICAL EQUIPMENT INSTALLATION, Fuselage station +9 1/2 to station 168 complete (see figure 51 for next assembly)	NP	269-393
	174-54034	ELECTRICAL EQUIPMENT INSTALLATION, Fuselage station +9 1/2 to station 168 complete (see figure 51 for next assembly)	NP	394-
	No Number	. FUSELAGE STATION 113 TO STATION 168 ELECTRICAL EQUIPMENT (see figure 156 for detail breakdown)	NP	269-
-1	320-625-2.000S	. CLAMP, Light weight T-bolt (Marman Products)	1	269-
-2	325-625-3.250S	. CLAMP, Light weight T-bolt (Marman Products)	2	269-
-3	325-625-3.500S	. CLAMP, Light weight T-bolt (Marman Products)	1	269-

FUSELAGE ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
154-4	AN3-27A	.	BOLT	2	269-
-5	159-54130	.	BRACKET, Electric cowl flap 90° drive fus sta 49.5 LH sup.	1	269-
-6	AN3-5A	.	BOLT	4	269-
-7	AN365-1032	.	NUT	5	269-
-8	WM2-599	.	DRIVE ASSY, Right angle (Air Associates) (Lear Aviation No. 740A may be sub)	2	269-
-9	WM2-514M25	.	SHAFT, Flexible (22 3/4") (Air Associates)	1	269-
-10	AN3-4A	.	BOLT	2	269-
-11	AN365-1032	.	NUT	2	269-
-12	M2139	.	DRIVE "T", 1 to 1 Ration (Air Associates)	1	269-
-13	AN520-10R14	.	SCREW	2	269-
-14	AN960D10L	.	WASHER	2	269-
-15	159-54182	.	GROMMET, Electrical cowl flap drive fuselage sta +9.5	1	269-
-16	159-54175	.	BOOT, Electrical cowl flap drive fuselage sta +9.5	1	269-
-17	159-54146	.	RETAINER ASSY, Elec cowl flap drive fus sta 49.5 boot	1	269-
-18	WM2-514-M26	.	SHAFT, Flexible (2 3/4") (Air Associates)	1	269-
-19	WM2-514M24	.	SHAFT, Flexible (15 1/16") (Air Associates)	1	269-
-20	M696	.	CAP, Cowl flap mechanism (Air Associates)	1	269-
-21	AN365-1032	.	NUT	2	269-
-22	AN3-4A	.	BOLT	2	269-
-23	WM2-M104	.	DRIVE ASSEMBLY "H" (Air Associates)	1	269-
-24	WM2-514-M23	.	SHAFT, Flexible (55") (Air Associates)	1	269-
-25	WM2-514-M22	.	SHAFT, Flexible (8 1/2") (Air Associates)	1	269-
-26	AN365-1032	.	NUT	4	269-
-27	AN3-4A	.	BOLT	4	269-
-28	WEE4-371	.	POWER UNIT, Elec Frame (Air Associates)(North Amer. 159-954015)	1	269-
-29	AN3106-20-29P	.	RECEPTACLE	1	269-
	AN3057-12A	.	ADAPTER	1	269-
-30	AN515-8R8	.	SCREW	2	269-
-31	159-54-1	.	LIGHT ASSEMBLY, Cockpit type 94A (Spec 94-322942) (Soderberg) (Soderberg 10245 or Standard Thompson A429711 may be sub)	1	269-
-32	159-54-171	.	COVER ASSEMBLY, Electrical connector plug	1	269-
-33	159-54-366	.	TUBE, Standby compass electric wiring	1	269-
	159-54-366-3	.	TUBE, Standby compass electric wiring	1	269-
-34	6751-1	.	PLUG ASSEMBLY, Instrument electric (Cannon Electric)	1	269-
-35	AN3106-22-1-P	*1 .	PLUG, (instrument panel)	1	269-
	AN3057-12A	*1 .	ADAPTER	1	269-
-36	AN3106-24-28P	*1 .	PLUG, (instrument panel)	1	269-
	AN3057-16A	*1 .	ADAPTER	1	269-
-37	AN3106-10SL3S	*1 .	PLUG, (13 position lights)	2	269-
-38	AN3106-10SL3S	*1 .	RECEPTACLE, (altitude gyro)(AN3106-10SL3S may be sub)	2	269-
-39	AN3106-10SL3S	*1 .	PLUG, (flap, bank & turn indicator)	4	269-
	AN3057-4A	*1 .	ADAPTER	12	269-
-40	AN3106-14S2S	*1 .	PLUG, (fuel level indicator RH tank)	2	269-
-41	AN3106-14S2S	*1 .	PLUG, (fuel level indicator LH tank)	2	269-
-42	AN3106-10SL3S	*1 .	PLUG, (tachometer)	2	269-
-43	AN3106-14S2S	*1 .	PLUG, (oil temperature)	2	269-
-44	AN3106-14S2S	*1 .	PLUG, (carburetor air temperature)	2	269-
-45	AN3106-14S5S	*1 .	PLUG, (compass)	2	269-
	AN3057-8A	*1 .	ADAPTER	10	269-
	AN3057-8A	*1 .	ADAPTER	6	269-
-46	AN365-832	.	NUT	4	269-
-47	AN515-8R7	.	SCREW	4	269-
-48	AN515-8R10	.	SCREW	2	269-
-49	A-285A4	.	LIGHT ASSY, Instrument (red) (less lamp, shield) (Grimes)	1	269-
-50	A-285A5	.	LIGHT ASSY, Instrument (red) (less lamp, bracket) (Grimes)	1	269-
-51	AN3131-303	.	LAMP	4	269-
-52	B-285A1	.	LIGHT ASSEMBLY, Ultra-violet cockpit (less lamp) (Grimes)	1	269-
-53	B-285A5	.	LIGHT ASSEMBLY, Ultra-violet cockpit (less lamp,bkt)(Grimes)	1	269-
-54	B-285A7	.	LIGHT ASSY, Ultra-violet cockpit (less lamp, shield, bkt)	2	269-
-55	PC76/360BL	.	LAMP, Ultra-violet (General Electric)	4	269-
-56	A-285A7	.	LIGHT ASSY, Inst (red) (less lamp, shield, bkt) (Grimes)	2	269-
-57	6-1-1	.	TERMINAL STRIP, (Howard B. Jones)	1	269-
-58	159-318245	.	COVER, Pilot's enclosure emergency stop switch	1	269-
-59	159-54297	.	SW ASSY, Elec canopy emer stop (altered from Hetherington A602R)	1	269-
-60	AN3436-2-6	.	TERMINAL BLOCK ASSEMBLY	1	269-
-61	AN3436-2-6	.	TERMINAL BLOCK ASSEMBLY	3	269-
-62	AN3436-2-1	.	TERMINAL BLOCK ASSEMBLY	1	269-
-63	AN961-6	.	WASHER	25	269-
-64	AN936A6B	.	WASHER	25	269-
-65	AN341-6	.	NUT	25	269-
-66	AN365-832	.	NUT	3	269-
-67	AN515-8R8	.	SCREW	3	269-
-68	AN3054-4	.	NUT	1	269-
-69	SA1204A	.	CONNECTOR, Vapor proof lamp type A7 (Standard-Thompson)	1	269-
-70	SA1286	.	SPACER, Insulating type (Standard-Thompson)	1	269-
-71	AN3039-2	.	LIGHT ASSEMBLY	1	269-
-72	AN3021-2	.	SWITCH	1	269-
-73	159-51005		PANEL ASSY, Pilot's instrument complete (see figure 99)	Ref	

*1 Items marked thus, used on both forward and rear instrument panels.

FUSELAGE ELECTRICAL (Cont)

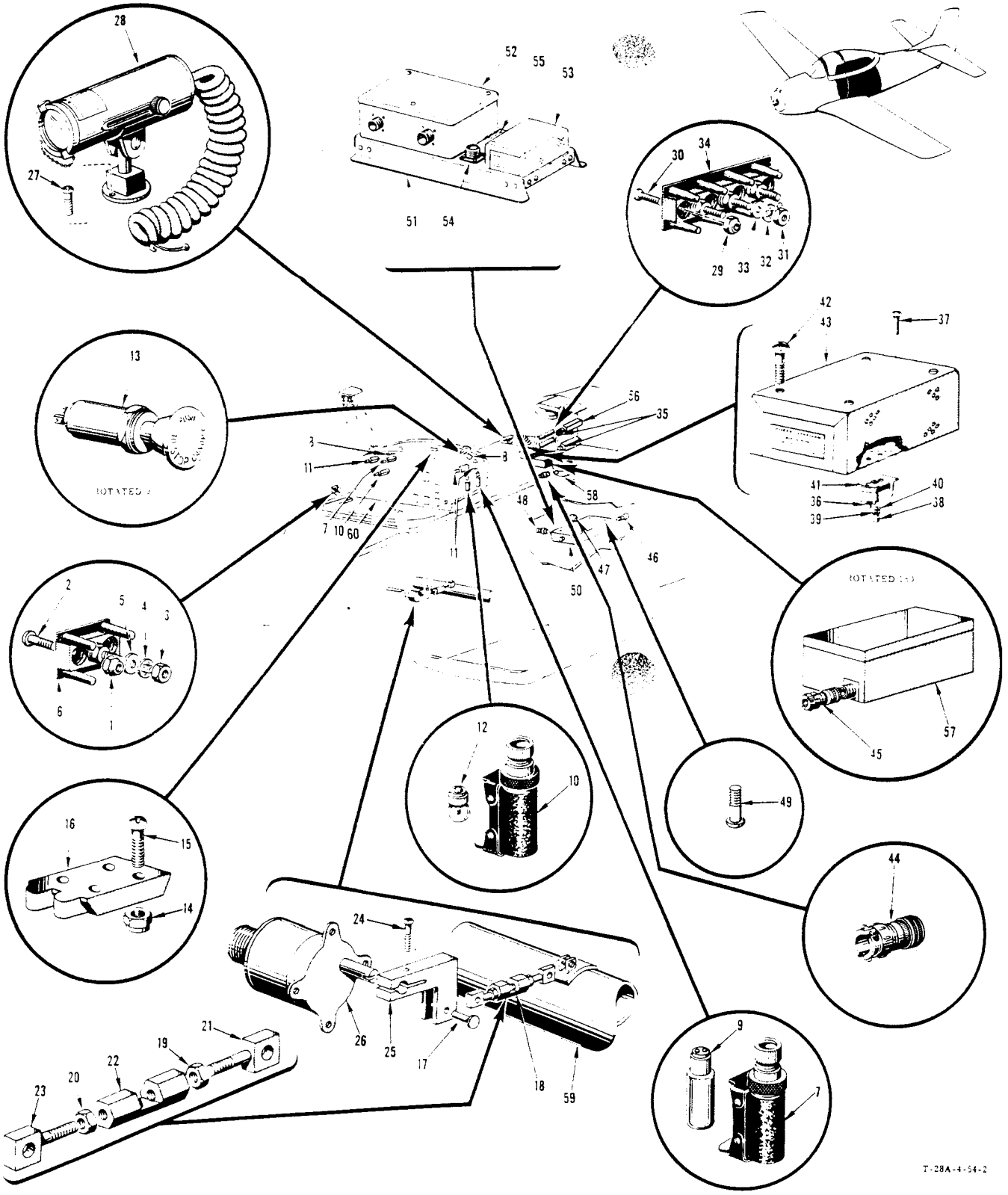


FIGURE 355 - FUSELAGE STATION [illegible] STATION [illegible] ELECTRICAL EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
355	No Number		FUSELAGE STATION [illegible] STATION [illegible] ELECTRICAL EQUIPMENT, ... (See Figure [illegible] for next higher assembly)	NP	--20B
-1	AN315-4R4	.	NUT	2	--20B
-2	AN515-4R8	.	SCREW	2	--20B
-3	AN340-8	.	NUT	1	--20B
-4	AN960-8	.	WASHER	1	--20B
-5	AN960-8	.	WASHER	1	--20B

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
166-[illegible]	MA[illegible]-[illegible]	.	PANEL ASSEMBLY, Electrical connector	1	4-268
-47	[illegible]	.	LIGHT ASSY, Ultra-violet cockpit (less lamp mat (Grimes)	2	4-268
-48	[illegible]	.	LIGHT ASSY, Ultra-violet cockpit (less lamp, shield ext) (Grimes)	2	4-268
-49	[illegible]	.	LAMP, Ultra-violet (General Electric)	4	4-268
-[illegible]	[illegible]	.	LIGHT ASSY, Instrument (red (less lamp, bracket (Grimes)	2	4-268
-[illegible]	[illegible]	.	LIGHT ASSY, Instrument (red (less lamp, shield, bracket) (Grimes	3	4-268
-[illegible]	[illegible]	.	LAMP	5	4-268
-[illegible]	[illegible]	.	SWITCH ASSY, Elec (whisky emer stop (altered from Robert Hetherington A-[illegible]B	1	4-268
-[illegible]	[illegible]	.	NUT	2	4-268
-[illegible]	[illegible]	.	SCREW	2	4-268
-[illegible]	[illegible]	.	TERMINAL STRIP, (Howard B. Jones)	1	4-268
-[illegible]	[illegible]	.	NUT	1	4-268
-[illegible]	[illegible]	.	ARM ASSY, Elec flap position transmitter (variable	1	4-268
-[illegible]	[illegible]	. .	NUT, Light hexagon 2H (Brace Thread	1	4-268
-[illegible]	[illegible]	. .	NUT	1	4-268
-[illegible]	[illegible]	. .	ARM, Elec flap position transmitter (adjusting	1	4-268
-[illegible]	[illegible]	. .	TURNBUCKLE, Electric flap position transmitter	1	4-268
-[illegible]	[illegible]	. .	ARM, Electrical flap position transmitter (adjusting	1	4-268
-[illegible]	[illegible]	.	SCREW	1	4-268
-[illegible]	[illegible]	.	ARM, Electrical flap position transmitter actuating	1	4-268
-26	[illegible]	.	TRANSMITTER ASSY, Flap position (type [illegible] (General Electric) (Spec 27-3[illegible] (Spec 27-[illegible]A, Spec 27-[illegible]B or MIL-T[illegible] may be used (GFAE (GENC Co-[illegible]	1	4-268
-27	[illegible]	.	SCREW	2	4-268
-28	[illegible]	.	LIGHT ASSY, Cockpit (type [illegible] (Spec [illegible]2224--2 (Soderberg, Cleveland No. [illegible] or Standard Thompson A-[illegible]B may be sub	1	4-268
-29	[illegible]	.	NUT	1	4-268
-[illegible]	[illegible]	.	SCREW	1	4-268
-[illegible]	[illegible]	.	NUT	1	4-268
-[illegible]	[illegible]	.	WASHER	1	4-268
-[illegible]	[illegible]	.	WASHER	1	4-268
-[illegible]	MA[illegible]	.	PANEL ASSY, Electrical connector	1	4-268
-[illegible]	[illegible]	.	PLUG, (fuel level warning indicator box	1	4-268
-[illegible]	[illegible]	.	ADAPTER	1	4-268
-[illegible]	[illegible]	.	NUT	2	4-268
-[illegible]	[illegible]	.	SCREW	1	4-268
-[illegible]	[illegible]	.	NUT	1	4-268
-[illegible]	[illegible]	.	WASHER	1	4-268
-[illegible]	[illegible]	.	WASHER	1	4-268
-[illegible]	MA[illegible]	.	PANEL ASSEMBLY, Electrical connector	1	4-268
-42	AN520-10R8	.	SCREW	4	4-268
-43	No Number *2	.	PHASE ADAPTER, (type P-1 (Spec 325-7A) (Phaostron No. PB1004 or Sperry Gyroscope No. 60[illegible]2 or 60[illegible]2B may be sub)	1	4-268
-44	AN3106-20-29S	.	PLUG, (control gyro)	1	4-268
	AN3057-12A	.	ADAPTER	1	4-268
-45	AN3106-20-27S	.	PLUG, (amplifier	1	4-268
	AN3057-12A	.	ADAPTER	1	4-268
-46	AN3106-14S5S	.	PLUG, (power)	1	4-268
	AN3057-6A	.	ADAPTER	1	4-268
-47	AN3106-20-27P	.	PLUG, (amplifier	1	4-268
	AN3057-12A	.	ADAPTER	1	4-268
-48	AN3106-20-29P	.	PLUG, (gyro	1	4-268
	AN3057-12A	.	ADAPTER	1	4-268
-49	AN520-10R8	.	SCREW	4	4-268
-50	159-54141 *1	.	BOX ASSY, Complete elec gyro compass (et (see Figure 170 for detail breakdown	1	4-268
-51	174-54606 *3	.	PANEL ASSY, Electrical gyro compass power	1	4-268
-52	174-54041 *3	. .	BOX ASSY, Electrical gyro compass (unction complete (see figure 171 for detail breakdown	1	4-268
	ATTACHING PARTS				
	AN520-10R8 *3	. .	SCREW	4	4-268
	2W18-[illegible] *3	. .	WASHER, Flat (North American)	4	4-268
	---*---				
-53	No Number *3	. .	PHASE ADAPTER, (type P1 (Spec 325-7A) (Phaostron No.PB1004 or Sperry Gyroscope No. 60[illegible]2 or 60[illegible]2B may be sub)	1	4-268
-54	AN3102-14S2P *3	. .	RECEPTACLE	1	4-268
-55	AN3436-2-3 *3	. .	TERMINAL PANEL ASSEMBLY	1	4-268
-56	EA[illegible]-1		CONTROL BOX, Warning light (liquidometer) (see figure 96)	Ref	
-57	No Number		AMPLIFIER, Single channel integral slaved gyro magnetic compass. (type A2) (GFAE) (see figure 96)	Ref	
-58	No Number		CONTROL GYRO, Slaved non-indicating (type S1)(GFAE)(see fig. 98)	Ref	
-59	159-[illegible]50-11		TUBE ASSY, Flap actuating torque (see figure 117)	Ref	
-60	159-51005		PANEL ASSY, Pilot's inst complete (for inst plugs see fig. 153).	Ref	

*1 Parts marked thus not used on aircraft modified in accordance with T. O. 1T-28-50.
*2 Phase adapter relocated per T. O. 1T-28-50. See index No. 53 for location on aircraft reworked in accordance with T. O. 1T-28-50.
*3 Used on aircraft modified in accordance with T. O. 1T-28-50.

FUSELAGE ELECTRICAL (Cont.)

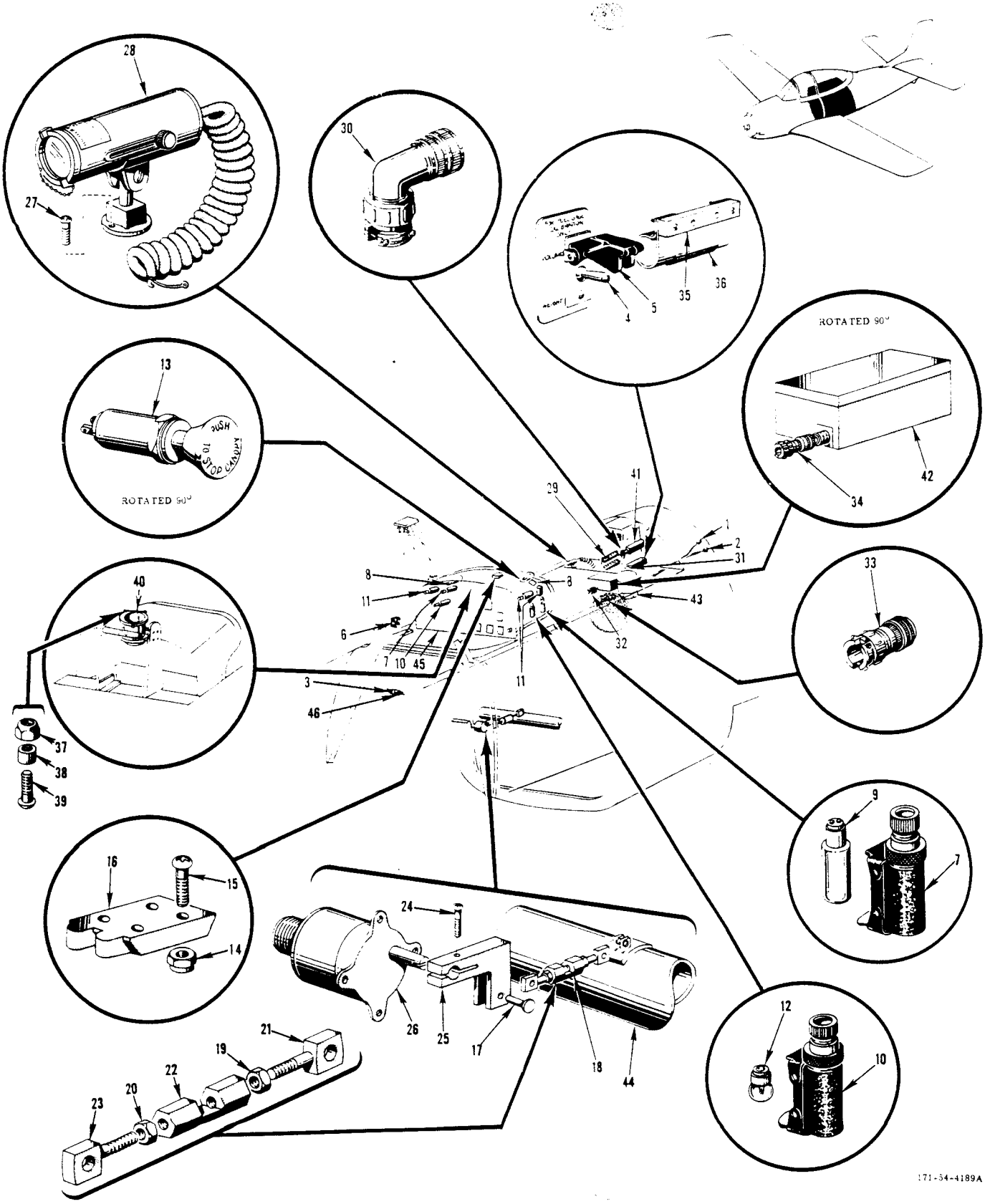


FIGURE 156 - FUSELAGE STATION 113 TO STATION 188 ELECTRICAL EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
156	No Number	FUSELAGE STATION 113 TO STATION 168 ELECTRICAL EQUIPMENT. . . . . (see figure 154 for next assembly)	NP	269-
-1	AN3106-20-29P	. PLUG, (gyro compass jct box)	1	269-
-2	AN3106-20-27P	. PLUG, (gyro compass jct box)	1	269-
	AN3057-12A	. ADAPTER.	2	269-
-3	AN3106-20-29P	. PLUG	1	269-
	AN3057-12A	. ADAPTER.	1	269-
-4	AN3022-2	. SWITCH ASSEMBLY.	1	394-
-5	AN3028-3	. GUARD.	1	394-
-6	AN3436-2-1	. TERMINAL BLOCK ASSEMBLY.	1	269-
-7	B-235A5	. LIGHT ASSY, Ultra-violet cockpit (less lamp bracket) (Grimes).	2	269-
-8	B-235A7	. LIGHT ASSY, Ultra-violet cockpit (less lamp shield bracket). . (Grimes)	2	269-
-9	F2T6/360BL	. LAMP, Ultra-violet (General Electric).	4	269-
-10	A-235A5	. LIGHT ASSY, Inst (red) (less lamp bracket) (Grimes).	2	269-
-11	A-235A7	. LIGHT ASSY, Inst (red) (less lamp shield bracket) (Grimes) . .	3	269-
-12	AN3121-303	. LAMP	5	269-
-13	159-54237	. SWITCH ASSY, Elec canopy emer stop (altered from Robert. . . . Hetherington 4038R)	1	269-
-14	AN365-632	. NUT.	2	269-
	AN936A6	. WASHER	2	269-
-15	AN515-6R10	. SCREW.	2	269-
-16	B-141	. TERMINAL STRIP, (Howard B. Jones).	1	269-
-17	AN392-13	. PIN.	2	269-
-18	159-54057	. ARM ASSEMBLY, Elec flap position transmitter adjustable. . . .	1	269-
-19	159-54056	. . NUT, Light hexagon LH coarse thread	1	269-
-20	AN340-6	. . NUT	1	269-
-21	159-54121-3	. . ARM, Elec flap position transmitter adjusting	1	269-
-22	159-54055	. . TURNBUCKLE, Electrical flap position transmitter.	1	269-
-23	159-54121-5	. . ARM, Electrical flap position transmitter adjusting	1	269-
-24	AN515-6R6	. SCREW.	1	269-
-25	159-54058	. ARM, Electrical flap position transmitter actuating.	1	269-
-26	No Number	. TRANSMITTER ASSEMBLY, Flap position (type A-) (GFAE) . . . . . (AERO 01-3166) (Spec MIL-T5521)	1	269-
-27	AN515-6R8	. SCREW.	2	269-
-28	102-5-1	. LIGHT ASSY, Cockpit type D-A (Spec 34-3323-2) (Soderberg). . . (Soderberg 102-5 or Standard Thompson A-42701 may be sub)	1	269-
-29	AN3436-2-6	. TERMINAL BLOCK ASSEMBLY.	2	269-393
	AN3436-2-6	. TERMINAL BLOCK ASSEMBLY.	1	394-
-30	AN3108-18-1S	. PLUG, (fuel level warning adjustment box).	1	269-
	AN3057-10A	. ADAPTER.	1	269-
-31	AN3108-18-1S	. PLUG, (fuel level warning adjustment box).	1	269-393
	AN3057-10A	. ADAPTER.	1	269-393
-32	AN3436-2-1	. TERMINAL BLOCK ASSEMBLY.	1	269-
-33	AN3106-20-29S	. PLUG, (control gyro)	1	269-
	AN3057-12A	. ADAPTER.	1	269-
-34	AN3106-20-27S	. PLUG, (amplifier).	1	269-
	AN3057-12A	. ADAPTER.	1	269-
-35	159-54097	. INSULATOR, Elec resistor small	1	394-
-36	174-54055	. RESISTOR ASSEMBLY, Elec fuel gage calibration.	1	394-
	No Number	. . RESISTOR, type RW16JRD (Spec JAN-R26A) (RW16C1RO. . . . . may be sub) (Ohmite)	1	394-
	169-54095	. . PANEL, Elec resistor small.	1	394-
-37	AN365-832	. NUT.	3	394-
-38	NAS43DD3-12	. SPACER, Screw.	3	394-
-39	AN515-8R8	. SCREW.	3	394-
-40	No Number	. HORN, Warning type J2 (Spec 32462)	1	394-
-41	EA318-1	CONTROL BOX, Warning light (Liquidometer) (see figure 98)	Ref	
-42	No Number	AMPLIFIER, Single channel integral slaved gyro magnetic . . . . . compass type A2 (GFAE) (see figure 98)	Ref	
-43	No Number	CONTROL GYRO, Slaved non indicating type S1 (GFAE)(see fig. 98) .	Ref	
-44	159-18050-11	TUBE ASSEMBLY, Flap actuating torque (see figure 117)	Ref	
-45	159-51005	PANEL ASSY, Pilot's instrument complete (for instrument plugs . . see figure 153)	Ref	
-46	AN3101-20-29S	RECEPTACLE, (see figure 149).	Ref	

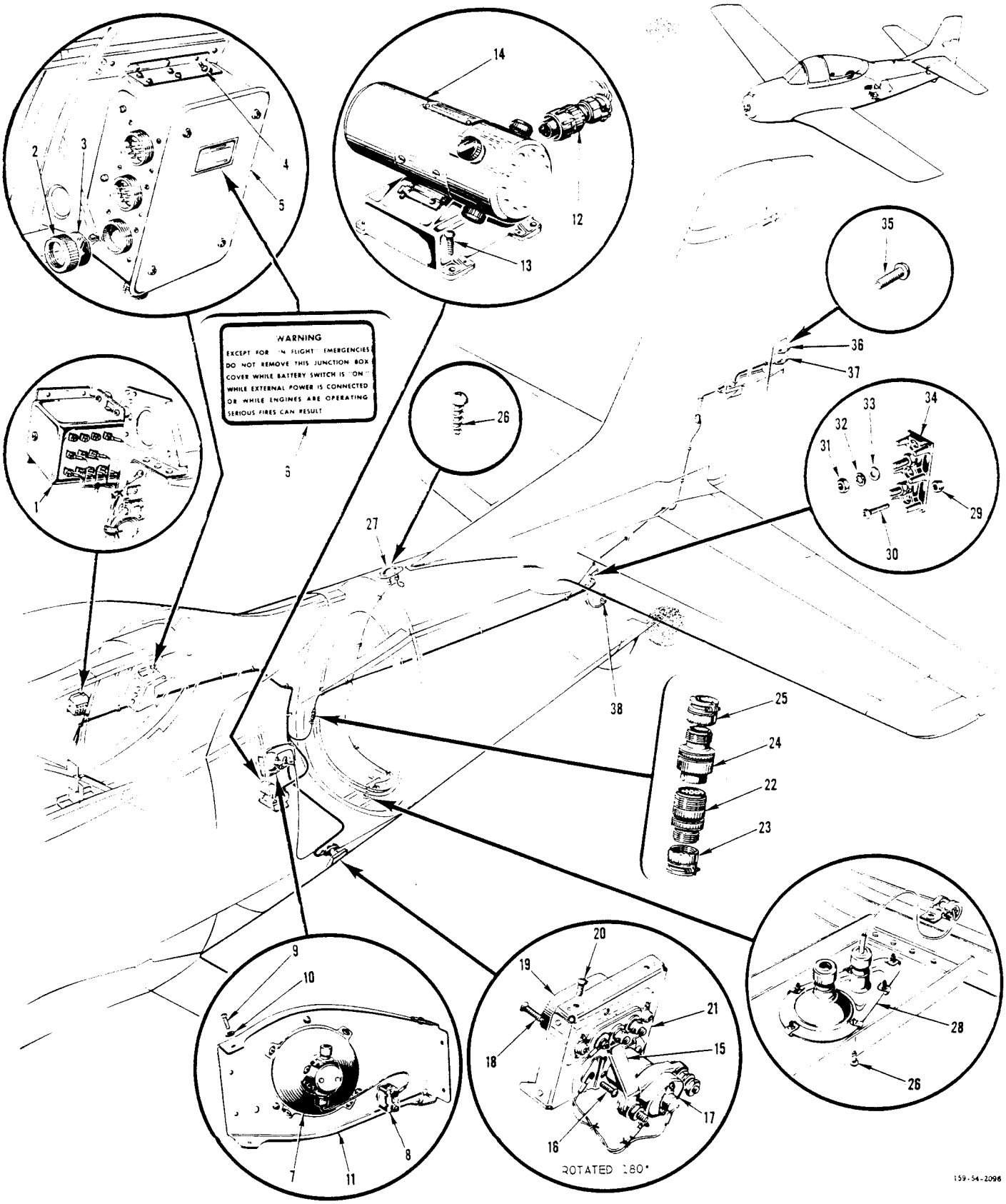


FIGURE 15Y - FUSELAGE STATION 168 TO 338 AND EMPENNAGE ELECTRICAL EQUIPMENT

FUSELAGE ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
157		FUSELAGE STATION 168 to 338 AND EMPENNAGE ELECTRICAL EQUIPMENT		
	159-54032	. ELECTRICAL EQUIPMENT INSTALLATION, Fuselage sta 168 to 238 7/8 (see figure 83 for next assembly)	NP	4-268
		NOTE: For airplanes coded 269- see figure 158		
-1	AN3316-1 *1	. . RELAY, 10 Amp 3 PDT (AN3316-2 may be substituted)	1	4-268
-2	AN3054-20	. . NUT	1	4-268
-3	2W1P0-53-62	. . WASHER, (North American)	6	4-268
-4	AN520-10R8	. . SCREW	6	4-268
-5	9038	. . RELAY, Electrically reset latch (Leach Relay)	1	4-268
-6	159-54094	. . DECAL, Junction box cover warning	1	4-268
-7	AN3037-?	. . LIGHT ASSEMBLY, (Grimes No. 1871-12 may be sub)	1	4-268
-8	AN3021-2	. . SWITCH	1	4-268
-9	AN515-8R8	. . SCREW	6	4-268
-10	AN960D8L	. . WASHER	6	4-268
-11	159-54200	. . MOUNT, Fuselage sta 187 9/16 to 197 3/8 baggage compartment dome light	1	4-268
-12	AN3106-14S7S *1	. . PLUG, (inverter)	1	4-268
	AN3057-6A *1	. . ADAPTER	1	4-268
-13	AN515-8R10 *1	. . SCREW	4	4-268
-14	AN3499-1 *1	. . INVERTER, (GFAE)	1	4-268
-15	159-54153	. . BUS BAR, Electrical external power receptacle to relay	1	4-268
-16	AN520-10R8	. . SCREW	2	4-268
	AN960D10L	. . WASHER	2	4-268
-17	AN3370-2	. . RELAY, 20 Amp SPST (Cutler-Hammer 6041H170A or Leach Relay 7264-570, dwg No. LC2570 may be used)	1	4-268
-18	AN509-10R14	. . SCREW	2	4-268
-19	AN2558-3	. . RECEPTACLE	1	4-268
-20	AN520-10R7	. . SCREW	4	4-268
-21	159-54151	. . SUPPORT ASSEMBLY, Fuselage sta 211 15/32 electrical external power receptacle	1	4-268
-22	AN3101-16S1S	. . RECEPTACLE, (fuselage station 238 disconnect)	1	4-268
-23	AN3057-8A	. . ADAPTER	1	4-268
	159-54033	. ELECTRICAL EQUIPMENT INSTALLATION, Rear fuselage (see figure 85 for next assembly)	NP	
-24	AN3106-16S1P	. . PLUG, (fuselage station 238 disconnect)	1	
-25	AN3057-8A	. . ADAPTER	1	
-26	AN530-6R8	. . SCREW, Sheet metal round head	12	
	2Wo-042-10	. . WASHER, Blank welding (North American)	2	
-27	AN3177-3	. . LIGHT ASSEMBLY, (less AN3120-1047 lamp) (GFAE) (Grimes No. B3525 AAF Dwg No. 7D6126-10 or AERNC 42-3406-1 may be substituted)	1	4-111
	AN3177-9	. . LIGHT ASSEMBLY, (less lamps and cover)	1	112-
	AN3099-?	. . COVER	1	112-
	AN3131-303	. . LAMP	1	112-
-28	AN3177-1	. . LIGHT ASSEMBLY, (less AN3120-1047 lamp) (GFAE) (Grimes No. B3525-1, AAF Dwg No. 7D6126-6 or AERNC 42-3406 may be substituted)	1	4-268
	AN3177-9	. . LIGHT ASSEMBLY, (less lamps and cover)	1	269-
	AN3099-1	. . COVER	1	269-
	AN3131-303	. . LAMP	1	269-
-29	AN365-440	. . NUT	2	
-30	AN515-4R8	. . SCREW	2	
-31	AN340-6	. . NUT	2	
-32	AN936A6	. . WASHER	2	
-33	AN960-6	. . WASHER	2	
-34	NAS45-6-2	. . PANEL ASSEMBLY, Electrical connector	1	
	159-54026	. ELECTRICAL EQUIPMENT INSTALLATION, Empennage (see figure 46 for next assembly)	NP	
-35	AN515-4R10	. . SCREW	4	
-36	7D6114-1	. . LAMP ASSEMBLY, Tail aircraft type D3 yellow (GFAE) (AN3158-2 lamp assembly may be substituted)	1	4-229
	AN3158-2	. . LIGHT ASSY (Grimes No. A4265-2-307 with 2103-11 or 4513-11 lens)	1	230-
-37	7D6114-2	. . LAMP ASSY, Tail aircraft type D3 white (GFAE) (AN3158-1 lamp assembly may be substituted)	1	4-268
	A4265-1-307	. . LIGHT ASSY, Tail position (Grimes) (with Grimes A-513-7 or 2103-7 lens) (AN3158-1)	1	269-
-38	159-54054-3	POTENTIOMETER, Electrical nose gear steering (see fig. 219)	Ref	

*1 Parts marked thus not used on aircraft modified in accordance with T. O. 1T-28-50.

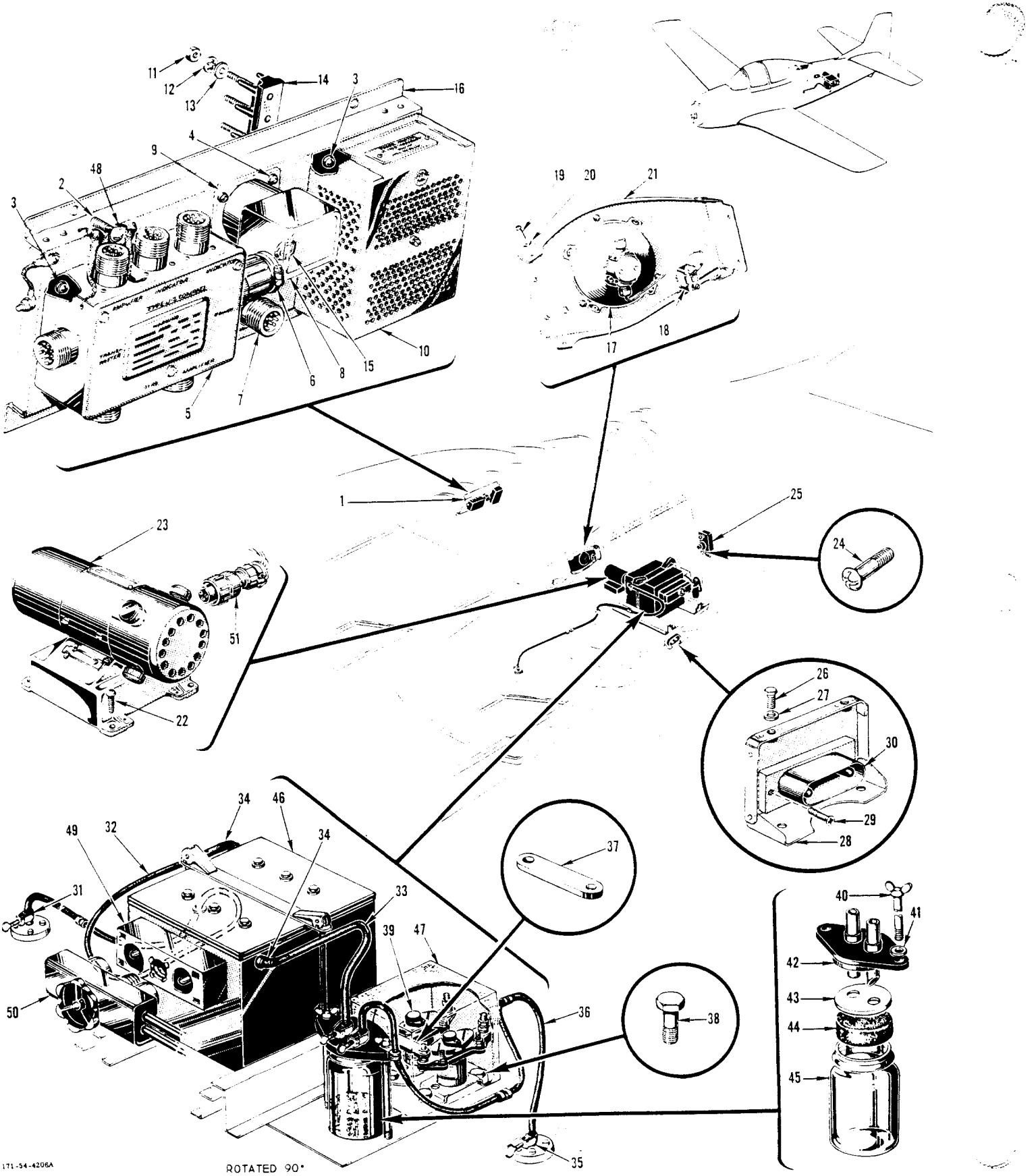


FIGURE 158 - FUSELAGE STATION 168 TO 238 7/8 ELECTRICAL EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
158	171-54032		ELECTRICAL EQUIPMENT INSTALLATION, Fuselage sta 168 to 238 7/8 . (see figure 83 for next assembly)	NP	269-
	NOTE: For airplanes coded 4-268 see figure 157				
-1	171-54045	*1	. PANEL ASSEMBLY, Electrical gyro compass power complete . . .	1	269-593
	174-54508-10	*2	. PANEL ASSEMBLY, Electrical gyro compass power complete . . .	1	269-593
	174-54045		. PANEL ASSEMBLY, Electrical gyro compass power complete . . .	1	594-
	ATTACHING PARTS				
-2	AN520-10R10		. SCREW	4	269-
		---*---			
-3	AN520-10R8		. . SCREW	3	269-
	AN960D10		. . WASHER	3	269-
-4	AN515-4R7	*1	. . SCREW	3	269-593
	AN960D4	*1	. . WASHER	3	269-593
	AN365-440	*1	. . NUT	3	269-593
-5	171-54041	*1	. . BOX ASSY, Complete electrical gyro compass junction . . . (see figure 175 for detail breakdown)	1	269-593
	174-54041		. . BOX ASSY, Electrical gyro compass junction complete . . . (see figure 171 for detail breakdown)	1	269-
-6	AN3106-14S5S		. . PLUG	1	269-
	AN3057-6A		. . ADAPTER	1	269-
-7	AN3102-14-12P	*1	. . RECEPTACLE	1	269-593
	AN3102-14S2P	*2	. . RECEPTACLE	1	269-
-8	AN3308-1	*1	. . RELAY, 15 amp SPDT connector mounting sealed	1	269-593
-9	A2062-34	*1	. . RECEPTACLE, (Cannon Electric) (Cannon Electric No. A2062 . . . sheet 5-	1	269-593
-10	No Number		. . PHASE ADAPTER, (type P1)(Spec 32547A)(Phaostron No. PB1104 or Sperry Gyroscope No. 661102 or 661102B may be sub)	1	269-
-11	AN340-6	*1	. . NUT	3	269-593
	AN341-6	*2	. . NUT	3	269-
-12	AN936A6	*1	. . WASHER	3	269-593
	AN936A6B	*2	. . WASHER	3	269-
-13	AN960C6	*1	. . WASHER	3	269-593
	AN961-6	*2	. . WASHER	3	269-
-14	NAS45-6-7	*1	. . PANEL ASSEMBLY, Electrical connector	1	269-593
	AN3436-2-3	*2	. . TERMINAL PANEL ASSEMBLY	1	269-
-15	AN931-6-2		. . GROMMET	1	269-
-16	171-54044	*1	. . PANEL ASSEMBLY, Electrical gyro compass equipment	1	269-593
	174-54066	*2	. . PANEL ASSEMBLY, Electrical gyro compass equipment . . . . (supersedes 17--[illegible] for future procurement)	1	269-
-17	AN3137-7		. LIGHT ASSEMBLY, (Grimes No. 1871-367 may be used)	1	269-
-18	AN3021-2		. SWITCH	1	269-
-19	AN515-6R8		. SCREW	6	269-
-20	AN960D6L		. WASHER	6	269-
-21	159-54220		. MOUNT, Fus sta 187 3/16 to 197 3/8 baggage compt dome light .	1	269-
-22	AN515-8R10	*1	. SCREW	1	269-593
-23	AN3439-1	*1	. INVERTER, (GFAE) (AERNO 42-2310)	1	269-593
-24	AN515-6R*		. SCREW	2	269-
			* Use AN515-6R5 for circuit breaker purchased from Mechanical Products and Square D		
			* Use AN515-6R7 for circuit breaker purchased from Spencer Thermostat		
			* Use AN515-6R8 for circuit breaker purchased from Wood Electric		
-25	AN3161P5		. CIRCUIT BREAKER	1	269-
-26	AN3-3A		. BOLT	3	269-
	AN520-10R7		. SCREW	1	269-
-27	AN960D10L		. WASHER	3	269-
-28	159-54151-10		. SUPPORT ASSY, Fus sta 211 15/32 electrical external power . . receptacle	1	269-
-29	AN509-10R14		. SCREW	2	269-
-30	AN2552-3A		. RECEPTACLE (Burton Elec Eng No. 190N may be sub).	1	269-
-31	AN737-26		. CLAMP	3	269-
-32	171-54064-7		. TUBE, Electrical battery vent	1	269-
-33	171-54064-3		. TUBE, Electrical battery vent	1	269-
-34	9555A		. ELBOW, Battery vent quick disconnect (Paul Henry)	2	269-
-35	AN737-26		. CLAMP	1	269-
-36	171-54064-5		. TUBE, Electrical battery vent	1	269-
-37	171-54046		. BUS BAR, Electrical battery relay	1	269-
-38	AN3-3A		. BOLT	4	269-
-39	AN3370-2		. RELAY	2	269-
-40	5B23		. BOLT, Battery vent outlet sump (North American)	2	269-
-41	AN960C10		. WASHER	2	269-
-42	8C5		. COVER ASSY, Battery vent outlet sump (North American) . . .	1	269-
-43	3S9		. SEAL, Battery vent outlet sump (North American)	1	269-
-44	11S1		. SPONGE, Battery vent trap (North American)	1	269-
-45	3509		. JAR, (Glass Containers)	1	269-
-46	AN3150-2		. BATTERY (AERNO 42-375) (GFAE)	1	269-
-47	174-54057		. COVER ASSEMBLY, Battery relay	1	269-
-48	144-54071		. COVER ASSEMBLY, Electrical connector plug	3	269-
-49	11749		KIT, Battery (GFAE) (furnished with battery)	Ref	
-50	11751		PLUG, Battery (GFAE) (furnished with battery)	Ref	
-51	AN3106-14S7S	*1	PLUG, (see figure 149)	Ref	

*1 Parts marked thus not used on aircraft modified in accordance with T. O. 1T-28-50.
*2 Parts marked thus used on aircraft modified in accordance with T. O. 1T-28-50.

FUSELAGE ELECTRICAL (Cont.)

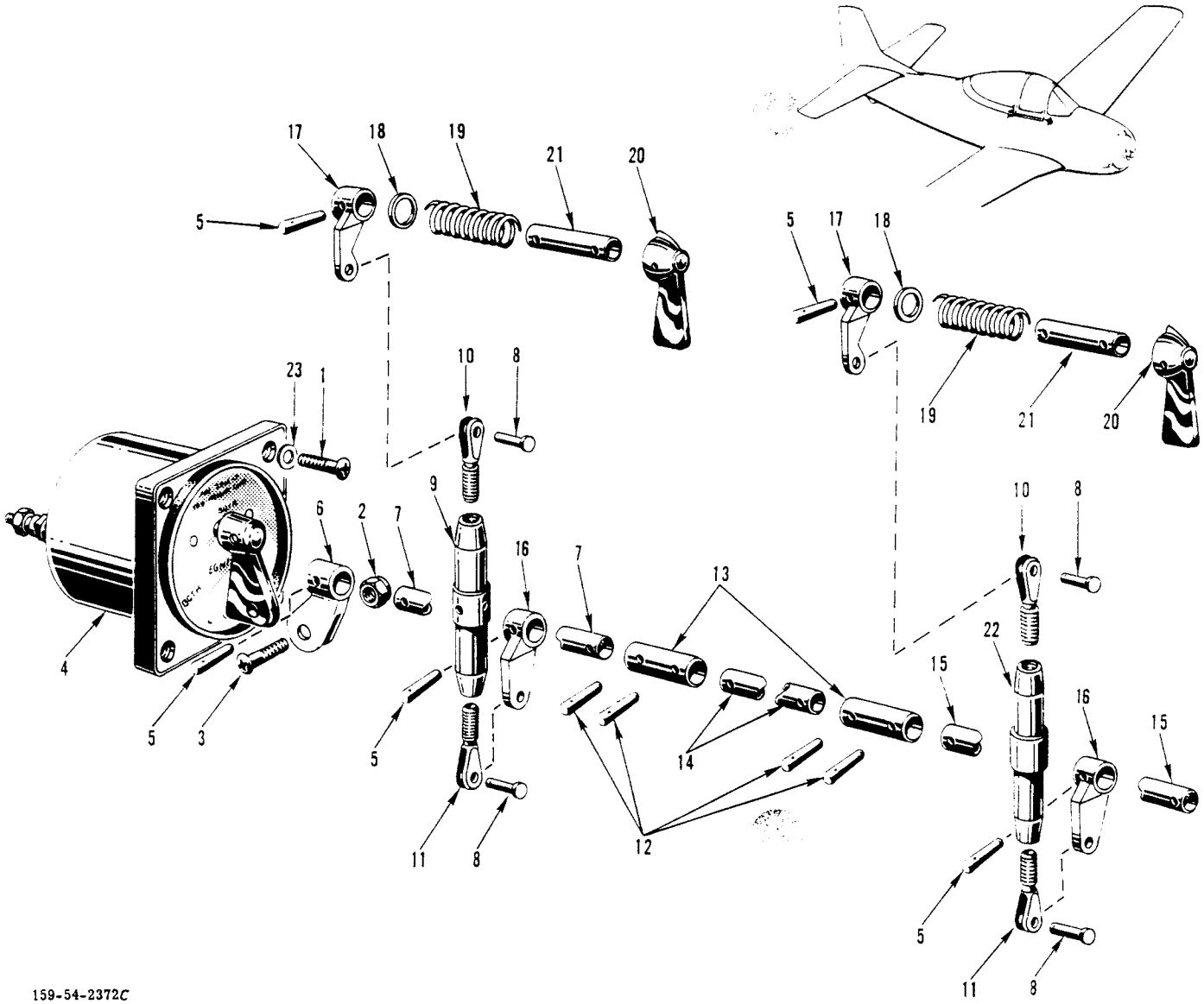


FIGURE 159 - FORWARD AND AFT COCKPIT IGNITION SWITCHES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
159	159-54240	SWITCH INSTALLATION, Ignition (see figure 58 for next assy)	NP	
-1	AN515-8R8	. SCREW	4	
-2	AN365-1032	. NUT	4	
-3	AN520-10-12	. SCREW	2	
-4	159-54250	. SWITCH, Ignition (make from AN3212-1)	1	
-5	159-53574-5	. PIN, Heat and vent system emergency control valve (supersedes AN392-23)	5	
-6	159-54241	. BELLCRANK, Ignition switch	1	
-7	159-54245-5	. TUBE, Ignition switch control	1	
-8	AN393-11	. PIN	4	
-9	AN155-16S	. BARREL	1	
-10	AN161-16RS	. FORK	2	
-11	AN161-16LS	. FORK	2	
-12	159-53574	. PIN, Heat and vent system emergency control valve (supersedes AN392-17)	4	
-13	159-54245-11	. TUBE, Ignition switch control	2	
-14	159-54245-7	. TUBE, Ignition switch control	1	
-15	159-54245-9	. TUBE, Ignition switch control	1	
-16	49-54045-3	. BELLCRANK, Ignition switch	2	
-17	49-54045-4	. BELLCRANK, Ignition switch	2	
-18	AN960-716L	. WASHER	2	
-19	159-54311	. SPRING, Ignition switch handle	2	11-
	159-54252	. HANDLE ASSEMBLY, Ignition switch	2	
-20	19-54046	. . HANDLE, Ignition switch	2	
-21	159-54245-3	. . TUBE, Ignition switch control	2	
-22	AN155-16L	. BARREL	1	
-23	AN960D6	. WASHER	4	

AN 01-60FGA--

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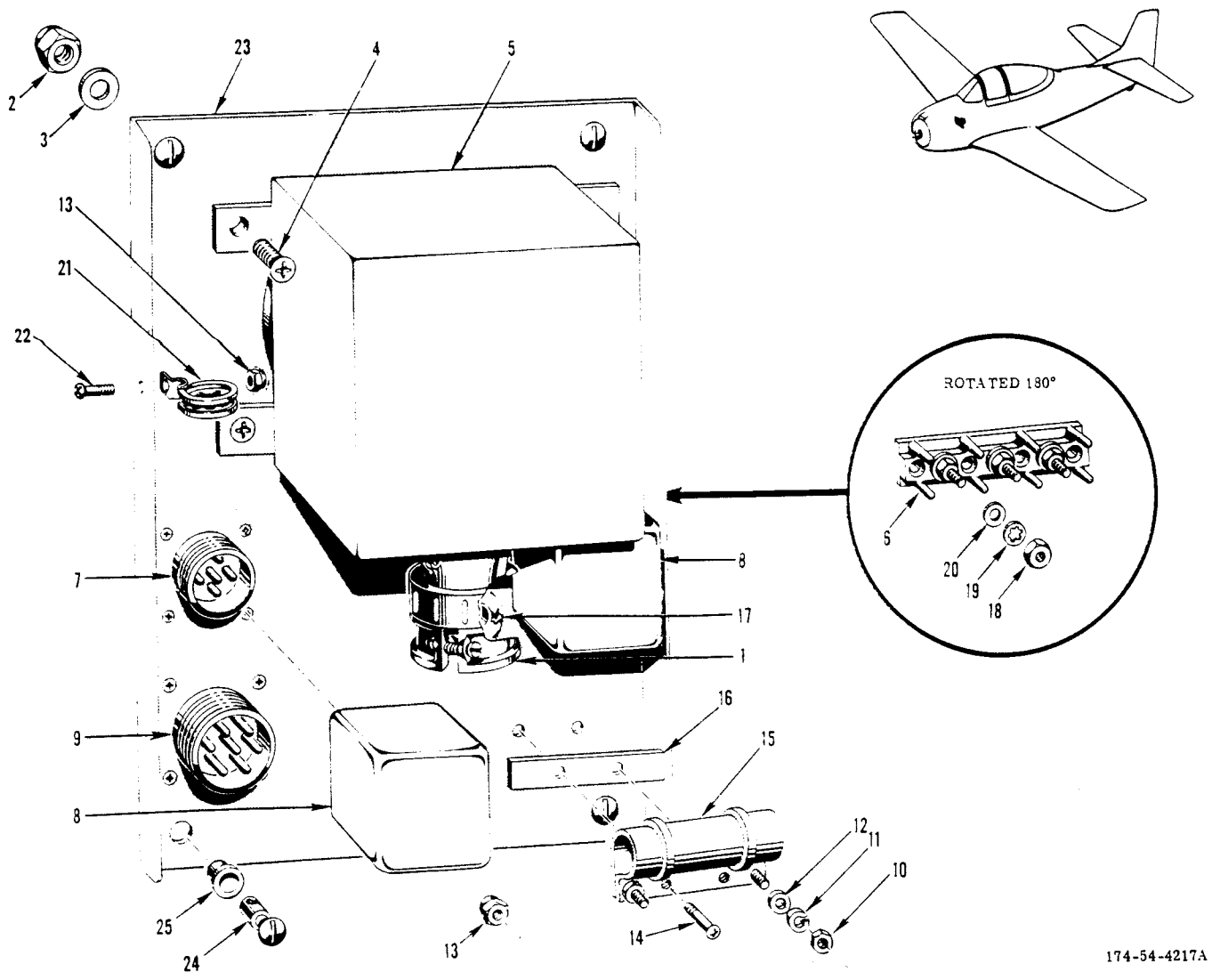


FIGURE 160 - COMPLETE ELECTRICAL TYPE 02 FLASHER PANEL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
160	174-54085	PANEL ASSEMBLY, Electrical type 02 flasher complete (see figure 147 for next assembly)	Ref	394-
-1	AN3106-16S8S	. PLUG	1	394-
	AN3057-8A	. ADAPTER	1	394-
-2	AN365-1032	. NUT	4	394-
-3	AN960D10	. WASHER	4	394-
-4	AN520-10R8	. SCREW	4	394-
-5	No Number	. FLASHER ASSY, Position light periodic aircraft type 02 (Spec 32660) (Seaboard Electric No. 1055-1 may be sub).	1	394-
			1	394-
-6	AN3436-2-3	. TERMINAL BLOCK ASSEMBLY	2	394-
-7	AN3102-20-7S	. RECEPTACLE	2	394-
-8	AN3306-1	. RELAY ASSEMBLY	1	394-
-9	AN3102-24-28P	. RECEPTACLE	2	394-
-10	AN341-8	. NUT	2	394-
-11	AN935-8	. WASHER	2	394-
-12	AN960C8	. WASHER	3	394-
-13	AN365-832	. NUT	3	394-
-14	AN515-8R12	. SCREW	1	394-
	159-54364	. RESISTOR ASSY, Electrical alighting gear handle light	1	394-
-15	No Number	. . RESISTOR, Type RW16D251 (Spec JAN-R26A) (RW16E251 may be substituted)	1	394-
-16	159-54097	. INSULATOR, Electrical resistor small	1	394-
-17	AN931-6-10	. GROMMET	3	394-
-18	AN341-6	. NUT	3	394-
-19	AN936A6B	. WASHER	3	394-
-20	AN961-6	. WASHER	1	394-
-21	A3125-3	. CLAMP, (Tinnerman)	1	394-
-22	AN515-8R6	. SCREW	1	394-
-23	174-54086	. PANEL ASSEMBLY, Electrical type 02 flasher	4	394-
-24	A5-30	. . STUD, (Dzus Fastener)	4	394-
-25	GA5-312	. . GROMMET, (Dzus Fastener)		

FUSELAGE ELECTRICAL (Cont)

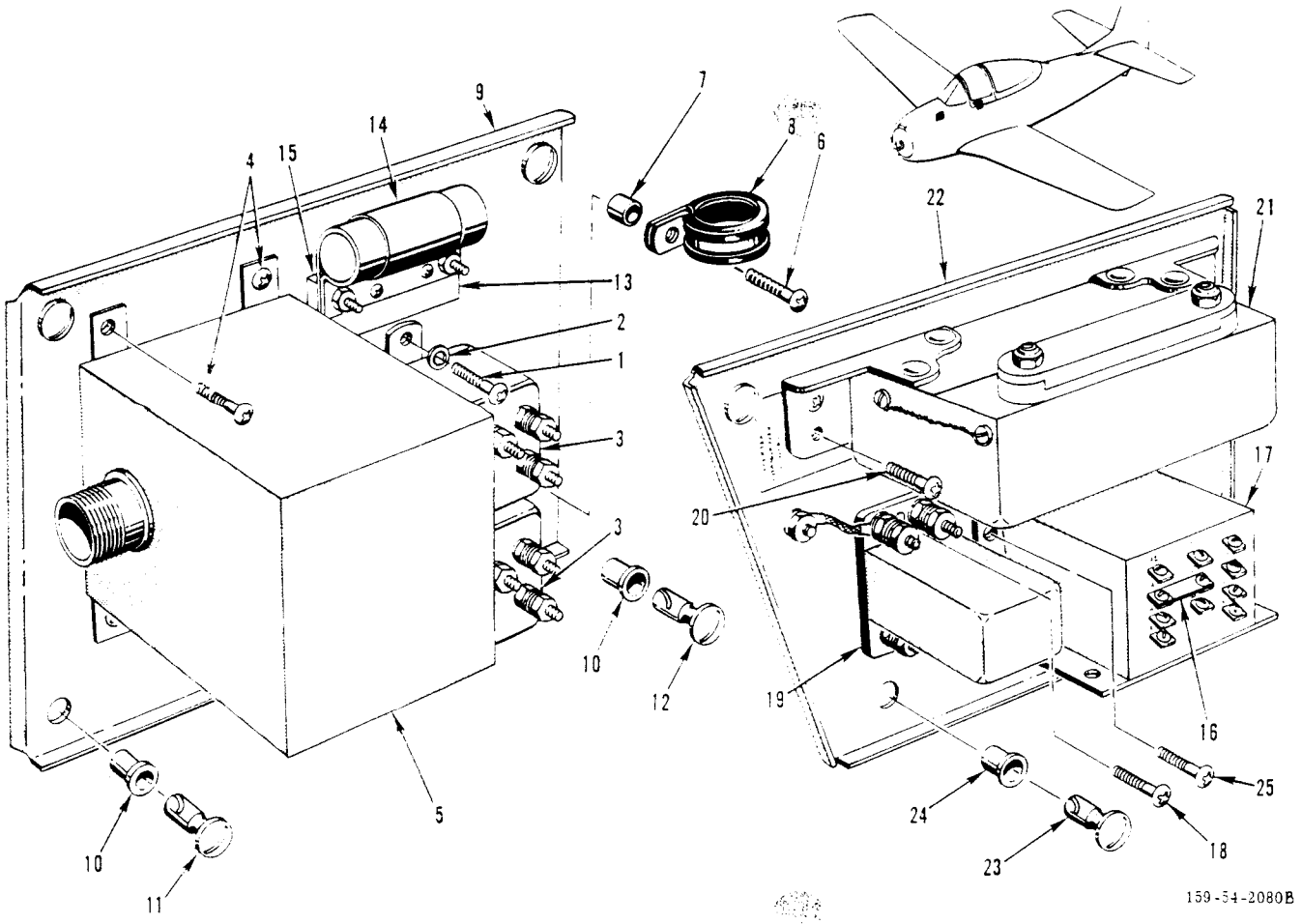
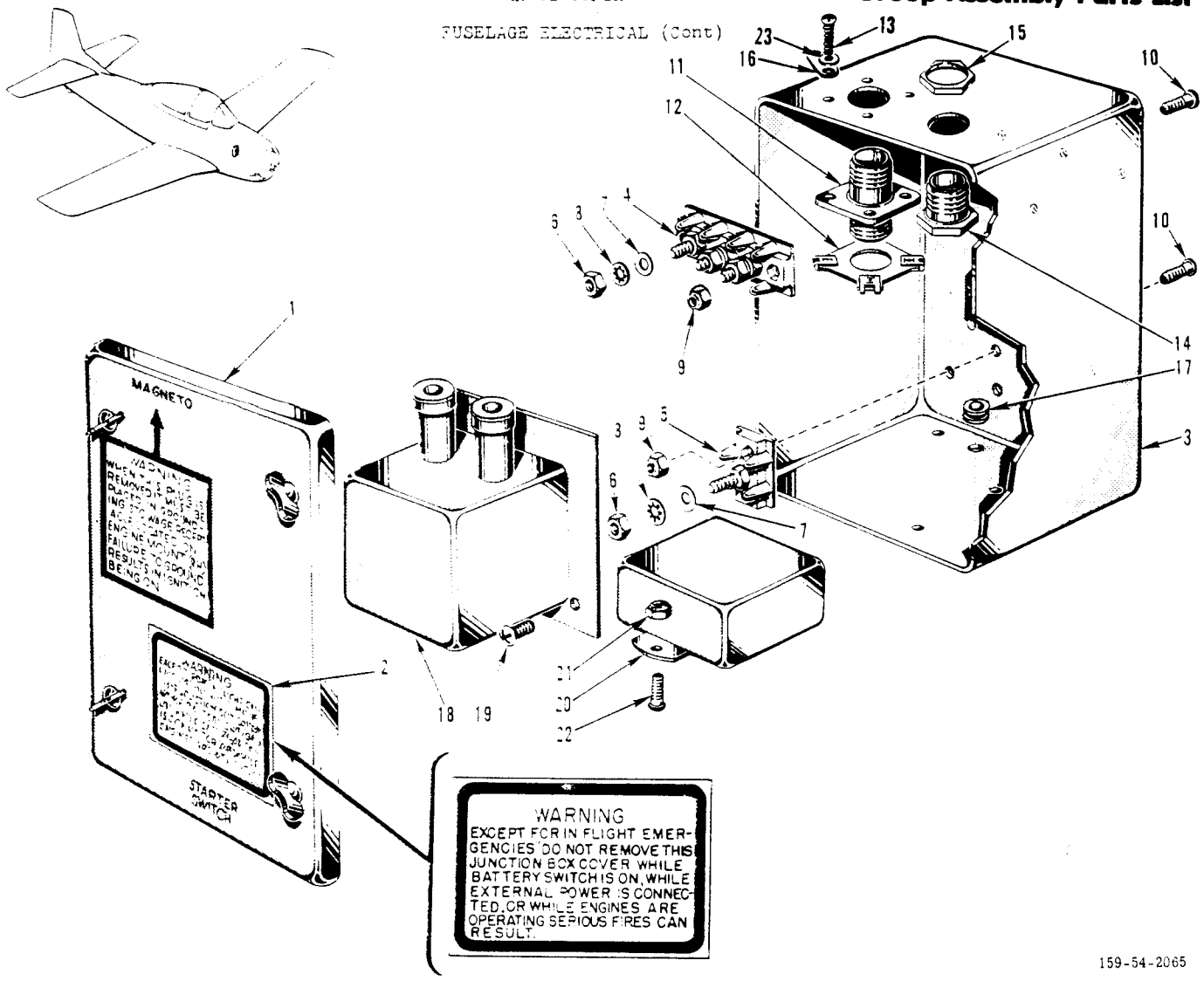


FIGURE 161 - TYPE J2 FLASHER AND SPARE INVERTER ELECTRICAL PANEL ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
161		TYPE J2 FLASHER AND SPARE INVERTER ELECTRICAL PANEL ASSEMBLIES		
	159-54-185	. PANEL ASSEMBLY, Electrical type J2 flasher complete . . . . . (see Figure 1-4 for next assembly)	Ref	--268
	159-54-185-11	. PANEL ASSEMBLY, Electrical type J2 flasher complete . . . . . (see Figure 161 for next assembly)	Ref	269-393
-1	AN515-8R9	. . SCREW	2	--393
	AN515-8R8	. . SCREW	1	--393
-2	AN960D8	. . WASHER	2	--393
-3	237EA0	. . RELAY ASSEMBLY, (Leach Relay)	2	--393
-4	AN521-10R8	. . SCREW	4	--393
-5	No Number	. . FLASHER ASSEMBLY, Position light periodic aircraft . . . . . type J2 (Spec J2660) (CFAE	1	--393
-6	AN515-8R12	. . SCREW	1	--393
-7	NAS43DD3-16	. . SPACER, Screw and bolt	1	--393
-8	AN742-150	. . CLAMP	1	--393
-9	159-54-186	. . PANEL ASSEMBLY, Electrical type J2 flasher	1	--268
	159-54-186-11	. . PANEL ASSEMBLY, Electrical type J2 flasher	1	269-393
-10	JA5-312	. . . GROMMET, (Dzus Fastener)	4	--393
-11	A5-30	. . . STUD, (Dzus Fastener)	2	--268
	A5-31	. . . STUD, (Dzus Fastener)	2	269-393
-12	A5-35	. . . STUD, (Dzus Fastener)	2	--268
-13	159-54-364	. . RESISTOR ASSY, Electrical (lighting) gear handle light . .	1	--393
-14	No Number	. . . RESISTOR, Type RW102A1 (Spec JAN-R26A) (RW102A1 . . . may be sub.)	1	--393
-15	159-54-187	. . INSULATOR, Electrical resistor small	1	--393
	159-54-162	. PANEL ASSEMBLY, Electrical spare inverter complete . . . . . (see Figures 1-4 and 1-4 for next assembly)	Ref	--393
-16	2B1-1-2	. . BUS BAR, (North American)	1	--393
-17	AN3016-1	. . RELAY ASSEMBLY	1	--393
-18	AN520-10R10 *1	. . SCREW	2	--393
-19	AN3022-1 *2	. . RELAY ASSEMBLY	1	--393
-20	AN521-10R8	. . SCREW	1	--393
-21	[illegible]	. . CONTROL ASSY, Inverter (voltage-[illegible] type A1 (Wilcolator . . . USAF No. 45B7D7) (Delco Elec No. 200-111 may be sub.	1	--393
-22	159-54-161	. . PANEL ASSEMBLY, Electrical spare inverter	1	--393
-23	A5-31	. . . STUD, (Dzus Fastener)	4	--393
-24	JA5-312	. . . GROMMET, (Dzus Fastener)	4	--393
-25	AN515-8R8	. . SCREW	4	--393

*1 Parts marked thus not used on aircraft reworked in accordance with T. O. 1[illegible]

FUSELAGE ELECTRICAL (Cont)



159-54-2065

FIGURE 162 - ELECTRICAL INDUCTION COMPLETE VIBRATOR BOX ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
162	159-54135	BOX ASSEMBLY, Electrical induction vibrator complete (see figure 144 and 145 for next assembly)	Ref	4-1137
	159-54135-10	BOX ASSEMBLY, Electrical induction vibrator complete (see figure 145 for next assembly)	Ref	1138-
-1	159-54136	. COVER ASSEMBLY, Electrical induction vibrator	1	
-2	1D138	. . DETAIL MARKING (supersedes 151-54094)	1	
-3	159-54137	. BOX ASSEMBLY, Electrical induction vibrator	1	
-4	MAS--6-6-3	. PANEL, Electrical connector	1	
-5	MAS--6-6-1	. PANEL, Electrical connector	1	
-6	AN3--6-6	. NUT	4	
-7	AN960D6	. WASHER	4	
-8	AN936A6	. WASHER	4	
-9	AN365--440	. NUT	4	
-10	AN515--R7	. SCREW	4	
-11	AN3102-14S9P	. RECEPTACLE	1	
-12	A6974-1--41	. RING, Retainer (Zimmerman)	1	
-13	AN530--R7	. SCREW	4	
-14	AN3064-6	. CONNECTOR	1	
-15	AN3066-6	. NUT	1	
-16	2L7-2	. LUG, Safety (North American)	1	
-17	AN931-3-5	. GROMMET	1	
-18	AN4112-1	. VIBRATOR, (GFAE)(AERO #2-710)(GFAE items American Bosch No. MJR2-B5K or MJR2-C5 or General Elec No. 703703 may be substituted)	1	4-1137
	AN4151-1	. VIBRATOR, (GFAE) (AERO #2-710)	1	1138-
	AN3067--A	. ADAPTER	2	1138-
	ATTACHING PARTS			
-19	AN520-10R10	. SCREW	3	
	---*---			
-20	3DE--2P5	. CAPACITOR, .5MFD 100V Type No. DP53B2EB405K (Solar Aircraft) (See DAL-02F)	1	
-21	AN365-832	. NUT	2	
-22	AN515-8R7	. SCREW	2	
-23	AN960D8	. WASHER	1	

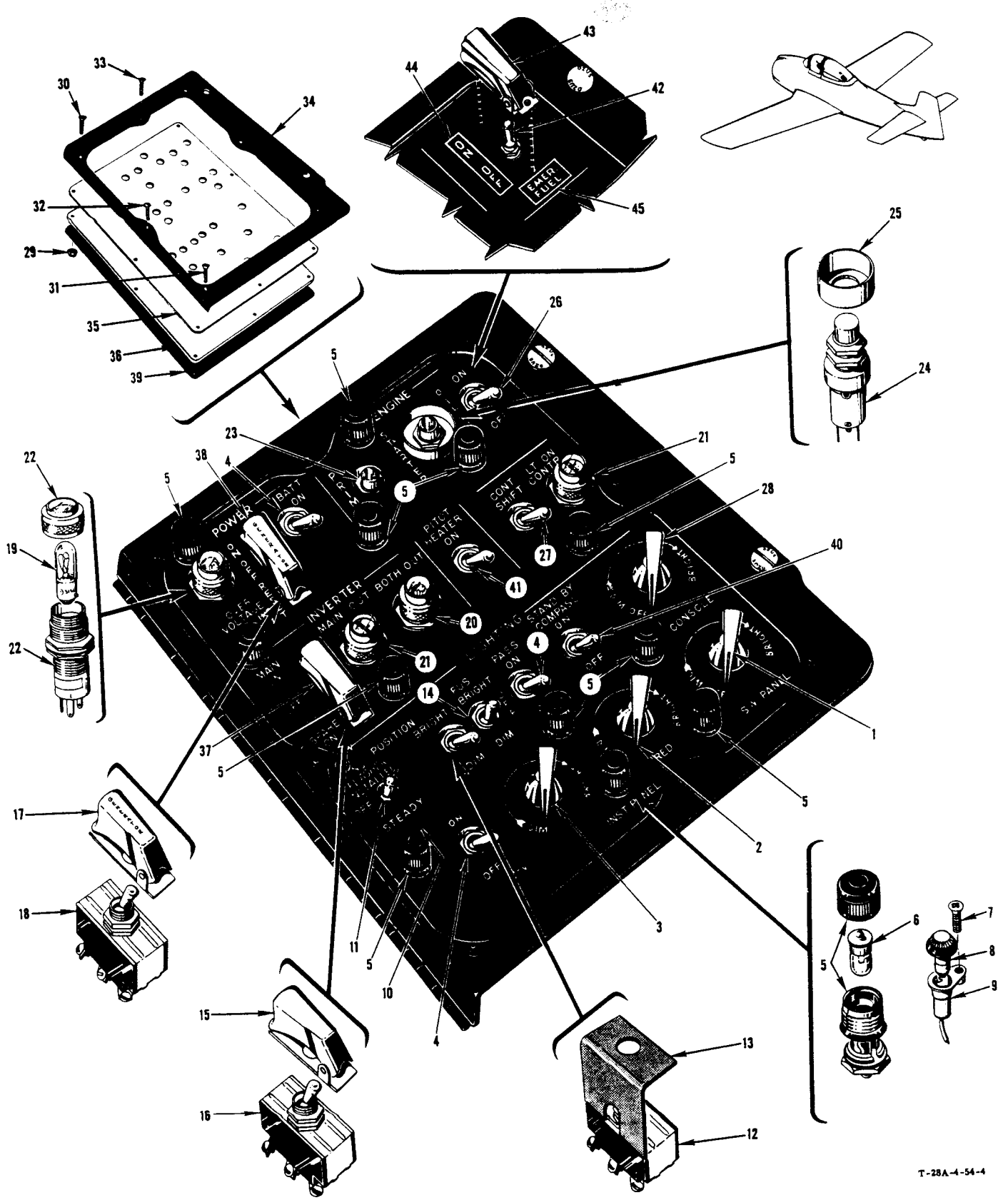


FIGURE 163 - FORWARD AND AFT COCKPIT ELECTRICAL SWITCH PANEL ASSEMBLIES

Revised 26 June 1959

FUSELAGE ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
163			FORWARD AND AFT COCKPIT ELECTRICAL SWITCH PANEL ASSEMBLIES		
	159-54325		. PANEL ASSEMBLY, Electrical forward cockpit switch complete (see figure 146 and 147 for next assembly)	Ref	81-393
	159-54325-10		. PANEL ASSEMBLY, Electrical forward cockpit switch complete (see figure 147 for next assembly)	Ref	394-
	159-54070		. PANEL ASSEMBLY, Electrical forward cockpit switch complete (see figure 146 for next assembly)	Ref	4-80
	159-54330		. PANEL ASSEMBLY, Electrical aft cockpit switch complete (see figure 148 and 149 for next assembly)	Ref	81-393
	159-54330-10		. PANEL ASSEMBLY, Electrical aft cockpit switch complete (see figure 149 for next assembly)	Ref	394-
	159-54080		. PANEL ASSEMBLY, Electrical aft cockpit switch complete (see figure 148 for next assembly)	Ref	4-80
-1	30112	*1	. . RHEOSTAT, (Ohmite)	1	81-
	CM7150		. . CONTROL ASSEMBLY, Rheostat (Clarostat)	1	4-80
-2	CM7060	*1	. . CONTROL ASSEMBLY, Rheostat (Clarostat)	1	
-3	A4627	*1	. . RHEOSTAT ASSEMBLY, Ultra-violet light (Grimes)(Clarostat No. CM9581 may be sub)	1	
-4	AN3021-2		. . SWITCH ASSEMBLY	3	
-5	AN3502-2A		. . LIGHT ASSEMBLY	12	81-
-6	387		. . LAMP, (must be purchased from General Electric)	12	81-393
	MS25010-4		. . LIGHT	12	394-
-7	AN507-440R5		. . SCREW	5	4-80
-8	A4364		. . LAMP HOUSING ASSEMBLY, Instrument light (Grimes)	5	4-80
-9	A4363		. . SOCKET AND CONTACT ASSEMBLY, Instrument light (Grimes)	5	4-80
-10	AN515-6R10		. . SCREW	2	4-80
	AN507-632R6		. . SCREW	2	81-
-11	AN3027-1		. . SWITCH ASSEMBLY	1	
-12	AN3027-2		. . SWITCH ASSEMBLY	1	
-13	159-54338		. . INSULATOR, Electrical switch terminal	1	4-80
-14	AN3021-1		. . SWITCH ASSEMBLY	1	
-15	AN3028-1		. . GUARD ASSEMBLY	1	4-80
-16	AN3027-1		. . SWITCH ASSEMBLY	1	
-17	159-54170		. . GUARD, One hole mounting switch (made from AN3028--)	1	4-80
-18	AN3027-8		. . SWITCH ASSEMBLY	1	
-19	AN3121-313		. . LAMP	4	
-20	AN3157-2		. . LIGHT ASSEMBLY	1	
-21	AN3157-4		. . LIGHT ASSEMBLY	2	
-22	AN3157-6		. . LIGHT ASSEMBLY	1	
-23	186187		. . SWITCH ASSEMBLY, (Ucinite)	1	
-24	186604		. . SWITCH ASSEMBLY, (Ucinite)	1	
-25	159-54069		GUARD, Electrical starter push button switch	1	
-26	AN3021-8	*2	. . SWITCH ASSEMBLY	1	
-27	AN3027-5		. . SWITCH ASSEMBLY	1	
-28	CM7059	*1	. . CONTROL ASSEMBLY, Rheostat (Clarostat)	1	
-29	AN365-632		. . NUT	8	
-30	AN507-632R10		. . SCREW	7	81-
	AN507-632R8		. . SCREW	6	4-80
-31	AN507-632R12		. . SCREW, (aft panel)	1	81-
-32	AN515-6R10		. . SCREW	1	4-80
-33	AN507-632R12		. . SCREW, (fwd panel)	1	81-
	AN507-632R10		. . SCREW, (fwd panel)	1	4-80
-34	159-54327		. . SUPPORT ASSY, Elec forward cockpit switch panel	1	81-
	159-54071		. . SUPPORT ASSY, Electrical forward cockpit switch panel	1	4-80
	159-54332		. . SUPPORT ASSY, Electrical aft cockpit switch panel	1	81-
	159-54081		. . SUPPORT ASSY, Electrical aft cockpit switch panel	1	4-80
-35	159-54072		. . PANEL, Electrical upper forward cockpit switch	1	4-80
	159-54082		. . PANEL, Electrical upper aft cockpit switch	1	4-80
-36	159-54326		. . PANEL ASSEMBLY, Electrical forward cockpit switch	1	81-
	159-54331		. . PANEL ASSEMBLY, Electrical aft cockpit switch	1	81-
-37	AN3028-3		. . . GUARD ASSEMBLY	1	81-
-38	159-54335		. . . GUARD, Generator switch (make from AN3028--)	1	81-
	159-54073		. . PANEL, Electrical center forward cockpit switch	1	4-80
	159-54083		. . PANEL, Electrical center aft cockpit switch	1	4-80
-39	159-54329		. . PANEL, Electrical forward cockpit switch lower	1	81-
	159-54074		. . PANEL, Electrical lower forward cockpit switch	1	4-80
	159-54334		. . PANEL, Electrical aft cockpit switch lower	1	81-
	159-54084		. . PANEL, Electrical lower aft cockpit switch	1	4-80
-40	AN3021-2		. . SWITCH ASSEMBLY, (fwd panel)	1	81-
-41	AN3021-2		. . SWITCH ASSEMBLY, (fwd panel)	1	
-42	AN3021-10	*3	. . SWITCH ASSEMBLY	1	
-43	AN3028-1	*3	. . GUARD.	1	
-44	58A76119	*3	. . DECAL, "ON-OFF"	1	
-45	58A76120	*3	. . DECAL, "EMERGENCY FUEL"	1	

*1 AN3219-1 to be used in place of knobs furnished with rheostats.
*2 Not used on airplanes modified per T.O. 1T-28A-534.
*3 Used on airplanes modified per T.O. 1T-28A-534.

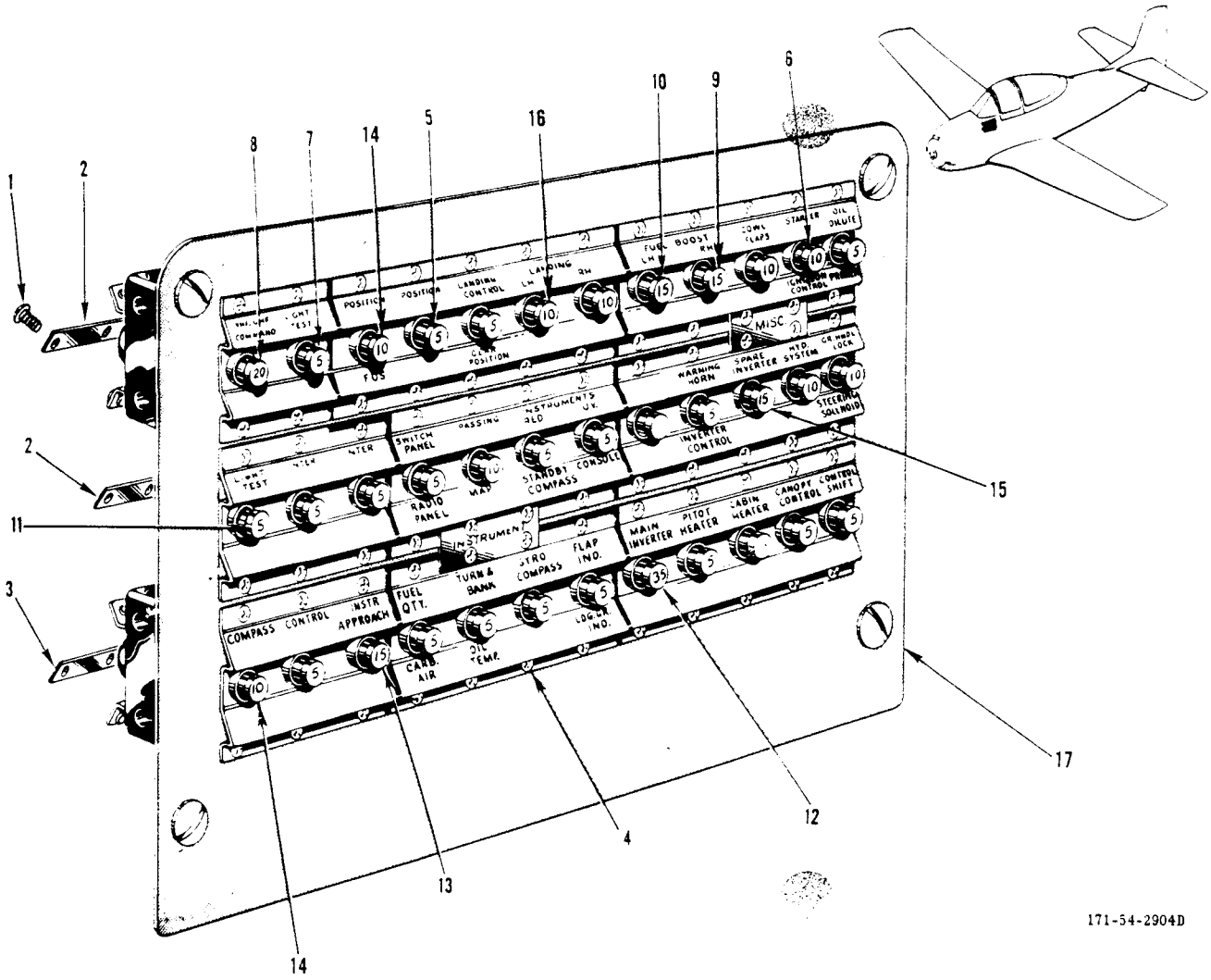
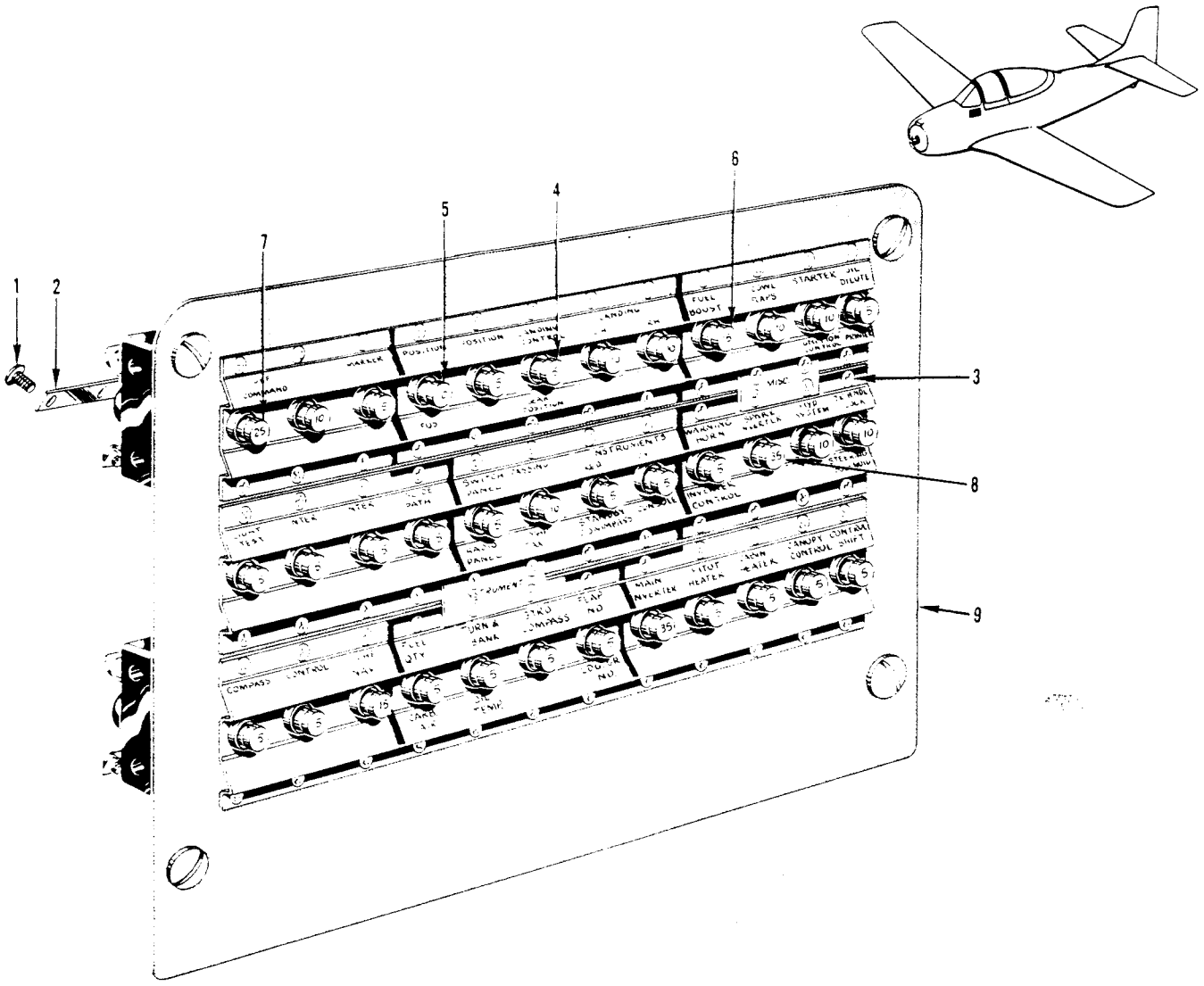


FIGURE 164 - ELECTRICAL FORWARD CIRCUIT BREAKER PANEL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
164	171-[illegible]	*1	PANEL ASSY, Elec Fwd circuit breaker (see fig.147 for next assy)	Ref	269-393
	171-[illegible]		PANEL ASSY, Electrical forward circuit breaker complete (see figure 147 for next assembly)	Ref	394-593
-1	AN515-6R5		. SCREW	2	269-593
-2	2B1-[illegible]		. BAR, Bus (North American)	2	269-593
-3	2B1-[illegible]		. BAR, Bus (North American)	2	269-593
	2B1-[illegible]		. BAR, Bus (North American)	1	394-593
-4	AN515-6R*		. SCREW	2	269-393
	AN515-6R*		. SCREW	36	269-393
		*	Use AN515-6R5 for circuit breakers mfg by Mechanical Products and Square D	34	394-593
		*	Use AN515-6R7 for circuit breakers mfg by Spencer Thermostat		
		*	Use AN515-6R6 for circuit breakers mfg by Wood Electric		
-5	AN3161P5		. CIRCUIT BREAKER	13	269-593
-6	AN3161P10		. CIRCUIT BREAKER	3	269-593
-7	AN3161P5	*2	. CIRCUIT BREAKER	1	269-393
	AN3161P10	*3	. CIRCUIT BREAKER	1	269-393
-8	AN3161P20	*2	. CIRCUIT BREAKER	1	269-593
	AN3161P25	*3	. CIRCUIT BREAKER	1	269-593
-9	AN3161P15		. CIRCUIT BREAKER	1	269-593
-10	AN3161P15		. CIRCUIT BREAKER	1	269-593
-11	AN3161P5		. CIRCUIT BREAKER	1	269-393
-12	AN3161P25		. CIRCUIT BREAKER	1	269-593
-13	AN3161P15		. CIRCUIT BREAKER	1	269-593
-14	AN3161P10	*2	. CIRCUIT BREAKER	1	269-393
	AN3161P5	*3	. CIRCUIT BREAKER	2	269-593
-15	AN3161P15	*2	. CIRCUIT BREAKER	1	269-593
	AN3161P25	*3	. CIRCUIT BREAKER	1	269-593
-16	AN3161P15	*2	. CIRCUIT BREAKER	1	269-593
	AN3161P20	*3	. CIRCUIT BREAKER	1	269-593
-17	159-54[illegible]		. PANEL ASSEMBLY, Electrical forward circuit breaker	1	269-593
	*1 Refer to T. O. 01-60FG-37.				
	*2 Parts marked thus not used on aircraft modified in accordance with T. O. 1T-28-50				
	*3 Parts marked thus used only on aircraft modified in accordance with T. O. 1T-28-50				

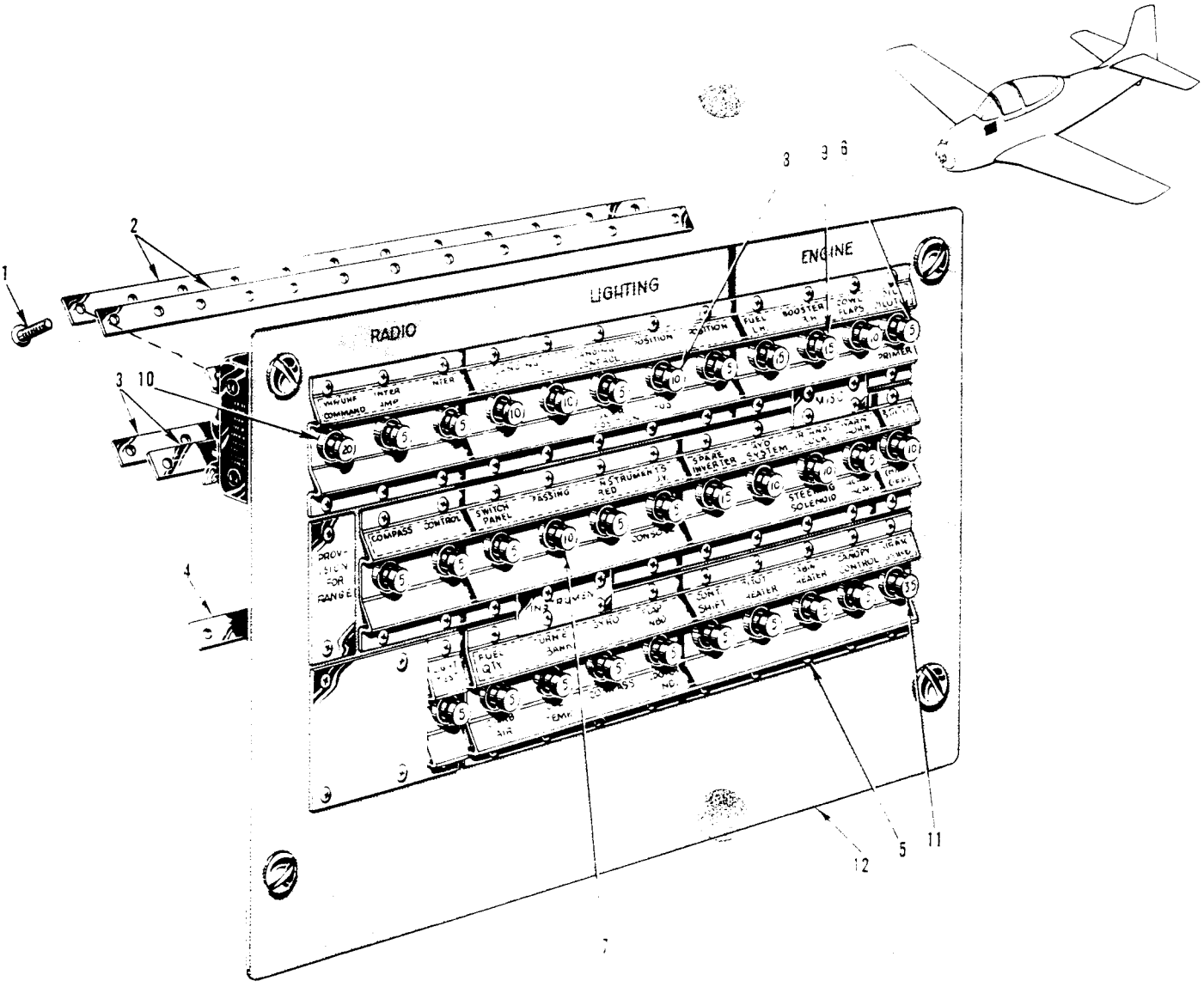


174-54-4430

FIGURE 165 - COMPLETE ELECTRICAL FORWARD CIRCUIT BREAKER PANEL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
165	17-54-350		PANEL ASSEMBLY, Electrical forward circuit breaker complete . . (see Figure 1-7 for next assembly)	Ref	594-844
	17-54-350-3		PANEL ASSEMBLY, Electrical forward circuit breaker complete . . (see Figure 1-7 for next assembly)	Ref	844-
-1	AN515-8R5		. SCREW	10	594-
-2	881-6-12		. BAR, Bus (North American)	3	594-
-3	AN515-8R	*	. SCREW	72	594-
		*	Use AN515-8R5 for circuit breakers purchased from Mechanical . . Products & Square D		
		*	Use AN515-8R7 for circuit breakers purchased from Spencer Thermostat		
		*	Use AN515-8R6 for circuit breakers purchased from Wood Electric		
-4	AN361B1P5		. CIRCUIT BREAKER	22	594-
-5	AN361B1P10		. CIRCUIT BREAKER	9	594-
-6	AN361B1P15		. CIRCUIT BREAKER	2	594-
-7	AN361B1P25		. CIRCUIT BREAKER	1	594-
-8	AN361B1P35		. CIRCUIT BREAKER	2	594-
-9	17-54-351-10		. PANEL ASSEMBLY, Electrical forward circuit breaker	1	594-

Revised 27 February 1951



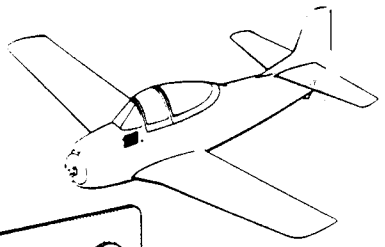
159-54-2081C

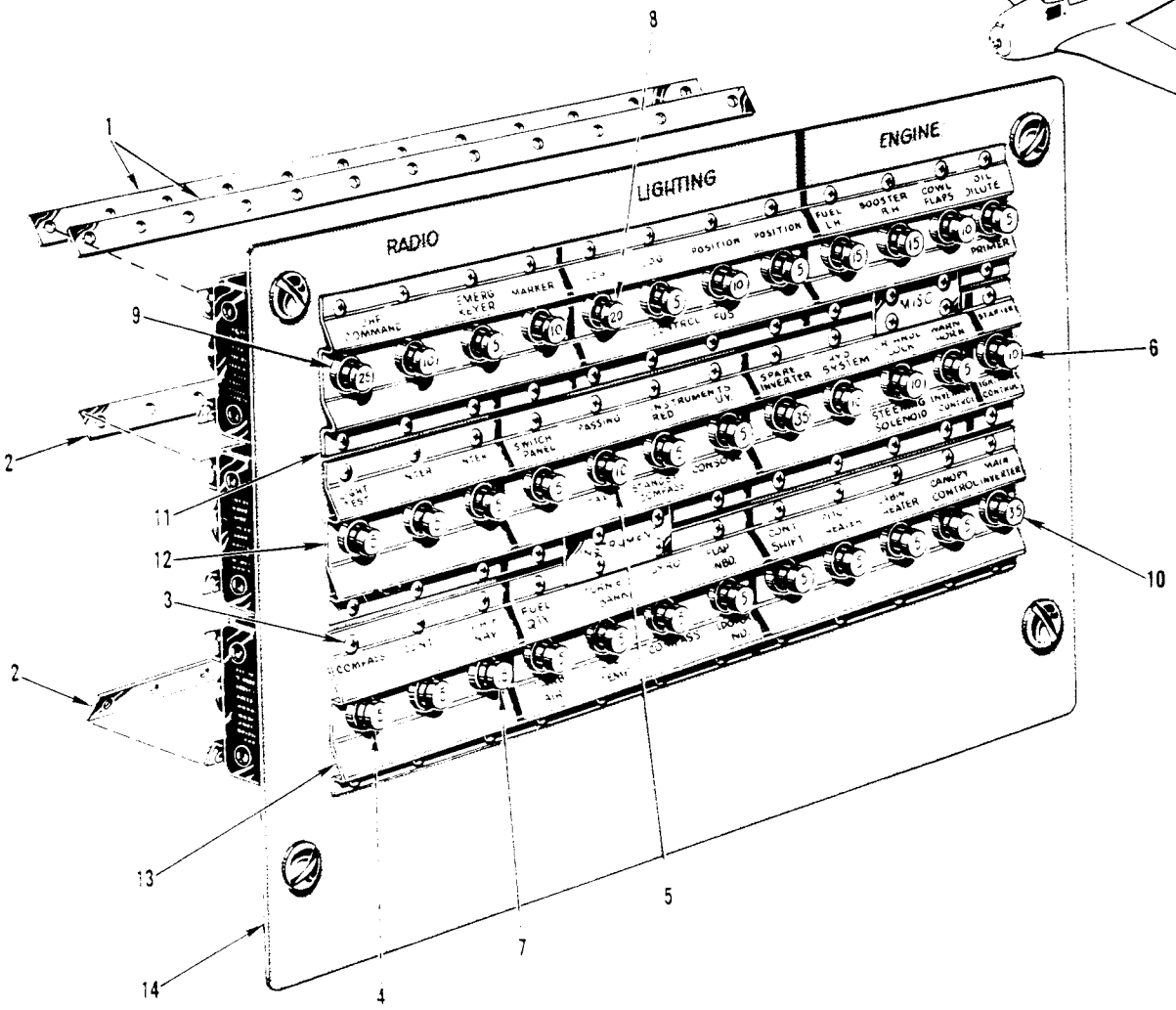
FIGURE 166 - ELECTRICAL FORWARD CIRCUIT BREAKER PANEL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
166	159-54-[illegible]	*1,*2	PANEL ASSY, Elec Fwd circuit breaker See Fig.1-6 for next assy	Ref	4-60
	159-54-[illegible]	*1,*2	PANEL ASSY, Elec Fwd circuit breaker See Fig.1-6 for next assy	Ref	31-268
-1	AN515-[illegible]		. SCREW	9	4-60
	AN515-6R*		. SCREW	9	31-268
-2	2B1-6-[illegible]		. BAR, Bus North American	2	4-60
	2B1-6-12		. BAR, Bus North American	1	31-268
-3	2B1-6-11		. BAR, Bus North American	2	4-60
	2B1-6-11		. BAR, Bus North American	1	31-268
-4	2B1-6-[illegible]		. BAR, Bus North American	1	4-268
-5	AN515-6R*		. SCREW	70	4-60
	AN515-6R*		. SCREW	64	31-268
		*	Use AN515-6R6 for circuit breakers mfg by Mechanical Products and Square D		
		*	Use AN515-6R7 for circuit breakers mfg by Spencer Thermostat		
		*	Use AN515-6R8 for circuit breakers mfg by Weld Electric		
-6	AN3161F5		. CIRCUIT BREAKER	20	4-268
-7	AN3161F6		. CIRCUIT BREAKER	1	4-60
	AN3161F10		. CIRCUIT BREAKER	1	31-268
-8	AN3161F1[illegible]		. CIRCUIT BREAKER	1	4-268
-9	AN3161F15		. CIRCUIT BREAKER	1	4-268
-10	AN3161F20		. CIRCUIT BREAKER	1	4-268
-11	AN3161F25		. CIRCUIT BREAKER	1	4-268
-12	159-54-[illegible]		. PANEL ASSEMBLY, Electrical forward circuit breaker	1	4-60
	159-54-[illegible]		. PANEL ASSEMBLY, Electrical forward circuit breaker	1	31-268

*1 Refer to T. O. 01-60FG-[illegible].

*2 This configuration not used on aircraft modified in accordance with T. O. 01-60-[illegible]. See Figure 1-6A for modified panel.





T-28A-4-54-1

FIGURE 166A - ELECTRICAL FORWARD CIRCUIT BREAKER PANEL ASSEMBLY (MODIFICATION)

FIGURE & INDEX NUMBER	PART NUMBER		NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
166A	159-54060	*1	PANEL ASSEMBLY, Electrical forward circuit breaker (see figure 146 for next assembly) . . .	Ref	4-66
	159-54350	*1	PANEL ASSEMBLY, Electrical forward circuit breaker (see figure 146 for next assembly) . . .	Ref	81-266
			. BAR, Bus (North American)	2	4-66
-1	2B1-6-12		. BAR, Bus (North American)	1	81-266
	2B1-6-12		. BAR, Bus (North American)	2	4-266
-2	2B1-6-12		. BAR, Bus (North American)	72	4-266
-3	AN515-6R	*	. SCREW		
		*	Use AN515-6R6 for circuit breakers manufactured by Mechanical Products and Square D.		
		*	Use AN515-6R7 for circuit breakers manufactured by Spencer Thermostat.		
		*	Use AN515-6R6 for circuit breakers manufactured by Wood Electrical.		
			. CIRCUIT BREAKER	20	4-266
-4	AN3161P5		. CIRCUIT BREAKER	1	4-66
-5	AN3161P6		. CIRCUIT BREAKER	1	81-266
	AN3161P10		. CIRCUIT BREAKER	8	4-266
-6	AN3161P10		. CIRCUIT BREAKER	3	4-266
-7	AN3161P15		. CIRCUIT BREAKER	1	4-266
-8	AN3161P20		. CIRCUIT BREAKER	1	4-266
-9	AN3161P25		. CIRCUIT BREAKER	2	4-266
-10	AN3161P35		. CIRCUIT BREAKER	1	4-266
-11	174-54514		. NAMEPLATE, Electrical circuit breaker upper	1	4-266
-12	174-54517		. NAMEPLATE, Electrical circuit breaker center	1	4-266
-13	174-54515		. NAMEPLATE, Electrical circuit breaker lower	1	4-66
-14	159-54051		. PANEL ASSEMBLY, Electrical forward circuit breaker	1	81-266
	159-54351		. PANEL ASSEMBLY, Electrical forward circuit breaker		

*1 This configuration of forward circuit breaker panel is used only on aircraft modified in accordance with T. O. 1T-28-50. See figure 166 for panel used on aircraft not modified.

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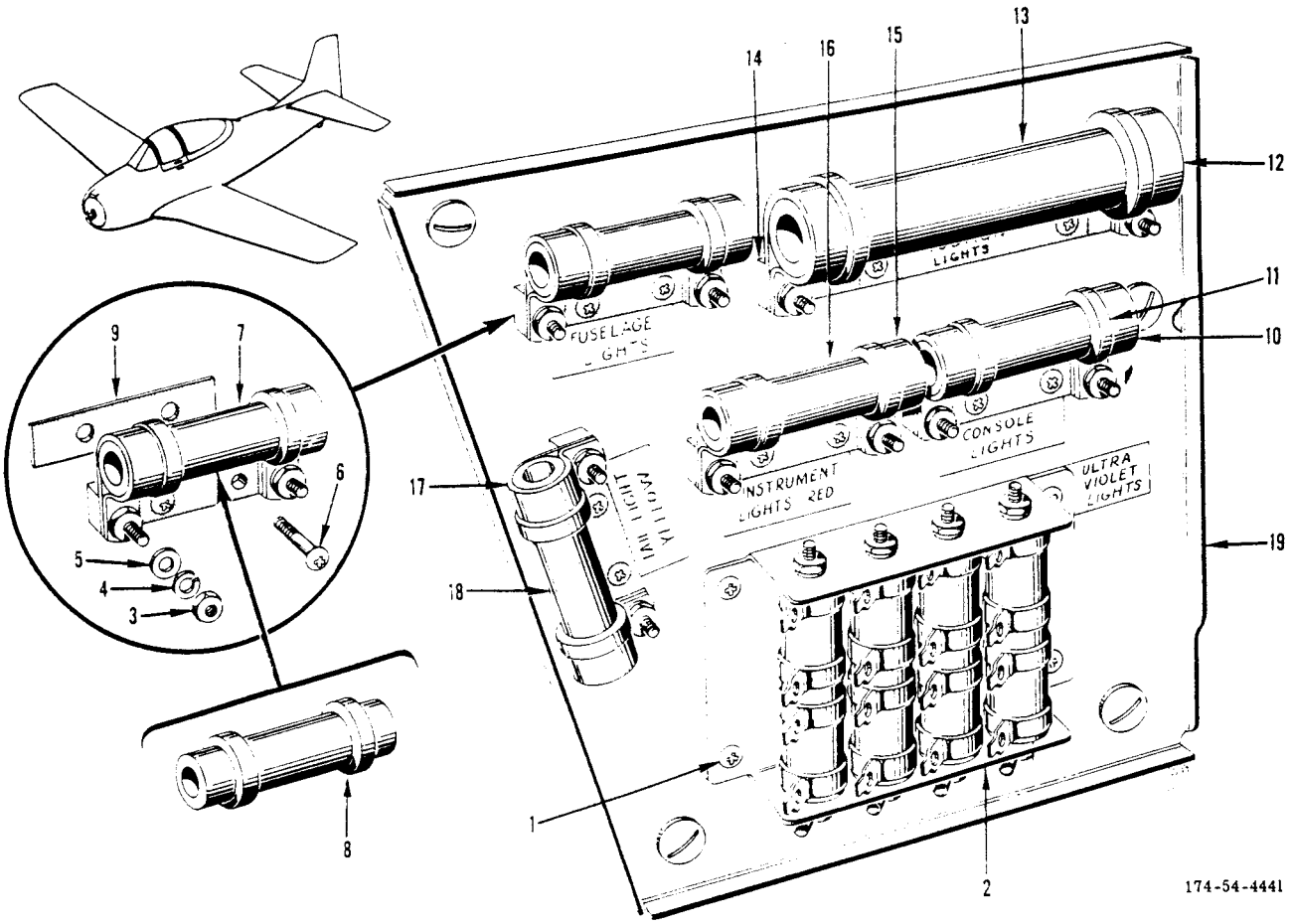


FIGURE 167 - COMPLETE ELECTRICAL RESISTOR PANEL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
167	174-54060	PANEL ASSEMBLY, Electrical resistor complete (see figure 149 for next assembly)	Ref	594-
-1	AN515-6R12	. SCREW	4	594-
	NAS43DD1-16	. SPACER, Screw	4	594-
-2	A4245	. RESISTOR MOUNT, + Unit ultra-violet cockpit light (Grimes)	1	594-
-3	AN340-8	. NUT	10	594-
-4	AN935-8	. WASHER	10	594-
-5	AN960D8	. WASHER	10	594-
-6	AN515-8R12	. SCREW	10	594-
-7	159-54092	. RESISTOR ASSEMBLY, Electrical fuselage lights	1	594-
-8	3RW16506	. . RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW16G500)	1	594-
-9	159-54097	. INSULATOR, Electrical resistor small	4	594-
-10	159-54088	. RESISTOR ASSEMBLY, Electrical console lights	1	594-
-11	3RW11113	. . RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW16J6R3) (RW16E6R3 may be sub)	1	594-
-12	159-54094	. RESISTOR ASSEMBLY, Electrical position lights	1	594-
-13	3RW12302	. . RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW14G100)	1	594-
-14	159-54098	. INSULATOR, Electrical resistor large	1	594-
-15	159-54087	. RESISTOR ASSY, Electrical instrument lights red	1	594-
-16	3RW12915	. . RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW16J120) (RW16E120 may be sub)	1	594-
-17	159-54093	. RESISTOR ASSEMBLY, Electrical tail light	1	594-
-18	3RW15305	. . RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW16G310)	1	594-
-19	174-54061	. PANEL ASSEMBLY, Electrical resistor	1	594-

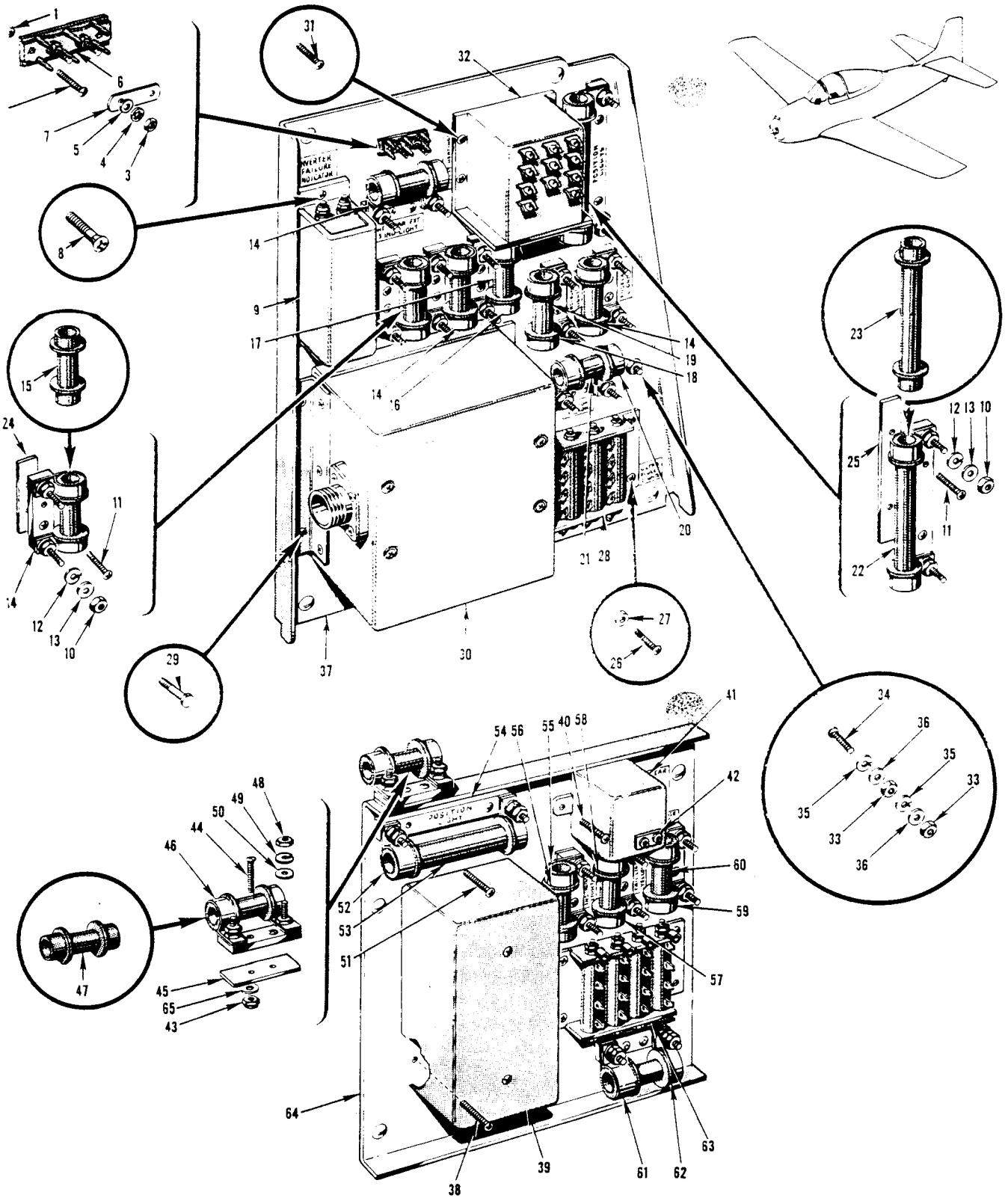


FIGURE 168 - FORWARD AND AFT COCKPITS ELECTRICAL EQUIPMENT PANEL ASSEMBLIES 159-54-2082A

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
168		FORWARD AND AFT COCKPITS ELECTRICAL EQUIPMENT PANEL ASSEMBLIES		
	159-54101	. PANEL ASSEMBLY, Electrical aft cockpit equipment complete (see figure 148 and 149 for next assembly)	Ref	4-593
-1	AN365-440	. . NUT	2	4-593
-2	AN515-4R6	. . SCREW	2	4-593
-3	AN340-6	. . NUT	4	4-593

FUSELAGE ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
168-4	AN936A6	. .	WASHER	4	4-593
-5	AN960D6	. .	WASHER	4	4-593
-6	NAS45-6-2	. .	PANEL ASSEMBLY, Electrical connector	1	4-593
-7	NAS44-6-2	. .	BUS BAR, Electrical	1	4-593
-8	AN507-1032R12	. .	SCREW	2	4-593
-9	44B18574	. .	RELAY, Current single pole (type D1) (Spec 32471)	1	4-593
-10	AN340-8	. .	NUT	16	4-593
-11	AN515-8R12	. .	SCREW	16	4-593
-12	AN935-8	. .	WASHER	16	4-593
-13	AN960D8	. .	WASHER	16	4-593
-14	159-54092	. .	RESISTOR ASSEMBLY, Electrical fuselage lights	4	4-593
-15	3RW16506	. . .	RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW16G500)	1	4-593
-16	159-54088	. .	RESISTOR ASSEMBLY, Electrical console lights	1	4-593
-17	3RW11113	. . .	RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW16J6R3) (RW16E6R3 may be sub)	1	4-593
-18	159-54087	. .	RESISTOR ASSEMBLY, Electrical instrument lights red	1	4-593
-19	3RW12915	. . .	RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW16J120) (RW16E120 may be sub)	1	4-593
-20	159-54093	. .	RESISTOR ASSEMBLY, Electrical tail lights	1	4-593
-21	3RW15305	. . .	RESISTOR, Fixed wire wound power (Ohmite) (Spec JAN-R26A type RW16G310)	1	4-593
-22	159-54094	. .	RESISTOR ASSEMBLY, Electrical position lights	1	4-593
-23	3RW12302	. . .	RESISTOR, Fixed wire wound power (Ohmite) (Spec JAN-R26A type RW14G100)	1	4-593
-24	159-54097	. .	INSULATOR, Electrical resistor small	7	4-593
-25	159-54098	. .	INSULATOR, Electrical resistor large	1	4-593
-26	AN515-6R12	. .	SCREW	4	4-593
-27	MAS43DD-16	. .	SPACER, Screw	4	4-593
-28	A4245	. .	RESISTOR MOUNT, 4 Unit ultra-violet cockpit light (Grimes)	1	4-593
-29	AN3-4A	. .	BOLT	1	4-593
-30	3V1128964	. .	CONTROL BOX ASSEMBLY, Remote positioning (Barber-Colman)	1	4-593
-31	AN515-8R8	. .	SCREW	4	4-593
-32	AN3316-1	. .	RELAY, 10 AMP 3 PDT (AN3316-2 may be substituted	1	4-593
-33	AN340-8	. .	NUT	2	4-593
-34	AN515-8R16	. .	SCREW	1	4-593
-35	AN935-8	. .	WASHER	2	4-593
-36	AN960D8	. .	WASHER	2	4-593
-37	159-54100	. .	PANEL ASSEMBLY, Electrical aft cockpit equipment	1	4-593
	159-54090	.	PANEL ASSY, Elec fwd equip. complete (see fig. 1-6 for next assembly	Ref	4-268
	159-54090-10	.	PANEL ASSY, Elec fwd equip. complete (see figure 147 for next assembly)	Ref	269-
-38	AN520-10R8	. .	SCREW	4	
-39	No Number	. .	PHASE ADAPTER (Type P1) (Spec 32547A) (Phaostron PB1C04 or Sperry Gyroscope 661102 or 661102E may be sub)	1	
-40	AN515-8R8	. .	SCREW	2	
-41	237EAC	. .	RELAY, DPDT (Leach Relay)	1	
-42	2B1B1-2	. .	BAR, Bus (North American)	1	
-43	AN365-832	. .	NUT	2	
-44	AN515-8R12	. .	SCREW	2	
-45	159-54097	. .	INSULATOR, Electrical resistor small	5	
-46	159-54088	. .	RESISTOR ASSEMBLY, Electrical console lights	1	
-47	3RW11113	. . .	RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW16J6R3) (RW16E6R3 may be sub)	1	
-48	AN340-8	. .	NUT	12	
-49	AN935-8	. .	WASHER	12	
-50	AN960D8	. .	WASHER	12	
-51	AN515-8R12	. .	SCREW	10	
-52	159-54094	. .	RESISTOR ASSEMBLY, Electrical position lights	1	
-53	3RW12302	. . .	RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW14G100)	1	
-54	159-54098	. .	INSULATOR, Electrical resistor large	1	
-55	159-54087	. .	RESISTOR ASSEMBLY, Electrical instrument lights red	1	
-56	3RW12915	. . .	RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW16J120) (RW16E120 may be sub)	1	
-57	159-54093	. .	RESISTOR ASSEMBLY, Electrical tail light	1	
-58	3RW15305	. . .	RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW16G310)	1	
-59	159-54092	. .	RESISTOR ASSEMBLY, Electrical fuselage lights	1	
-60	3RW16506	. . ..	RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW16G500)	1	
-61	159-54365	. .	RESISTOR ASSEMBLY, Electrical stand-by compass light	1	
-62	No Number	. . .	RESISTOR, Fixed wire wound power type (Ohmite) (Spec JAN-R26A type RW16J161)	1	
-63	A4245	. .	RESISTOR MOUNT, 4 Unit ultra-violet cockpit lights (Grimes)	1	
-64	159-54091	. .	PANEL ASSEMBLY, Electrical forward cockpit equipment	1	4-268
	159-54091-10	. .	PANEL ASSEMBLY, Electrical forward cockpit equipment	1	269-
-65	2W1P12-14-062	. .	WASHER, Plain (North American)	2	

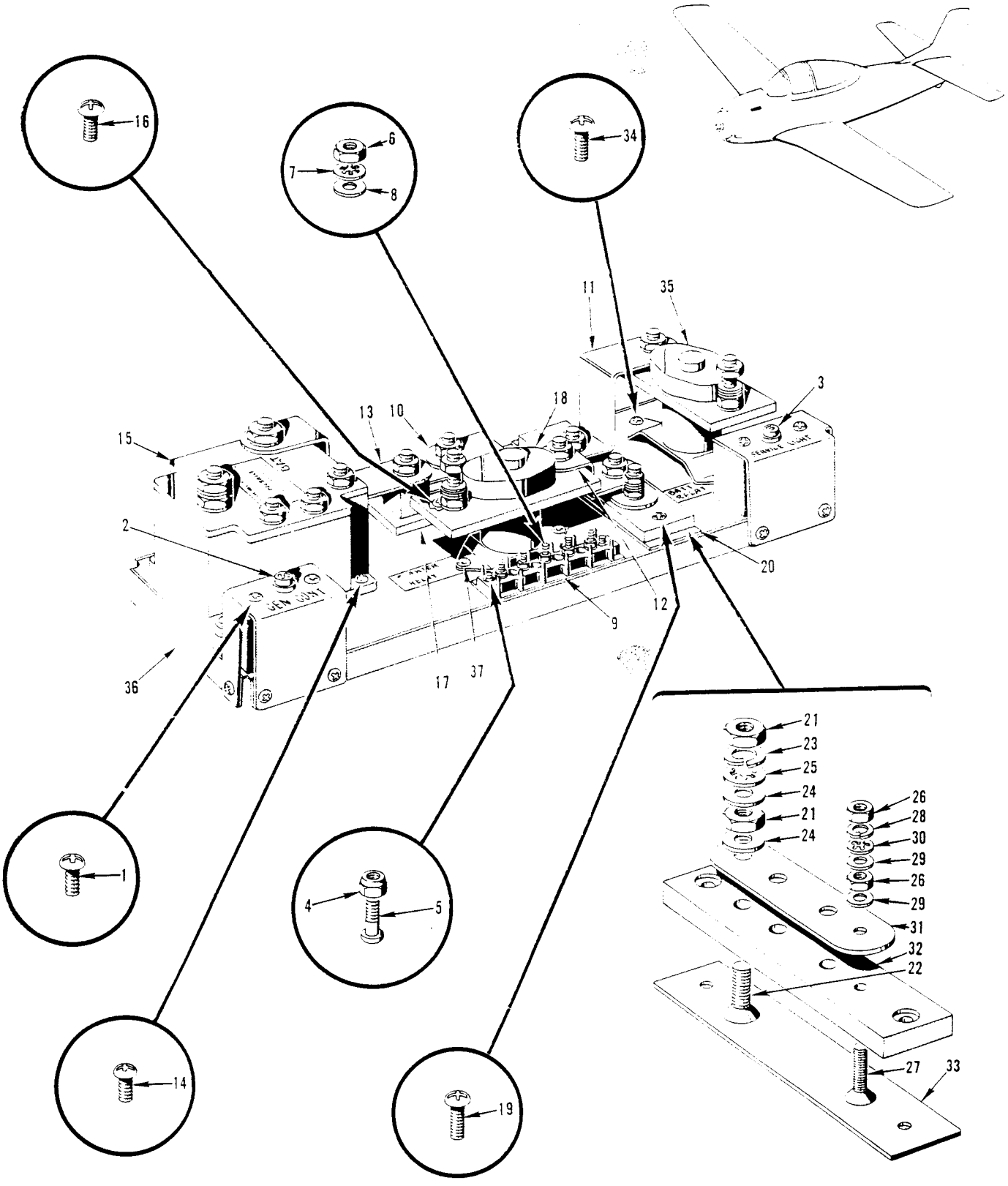
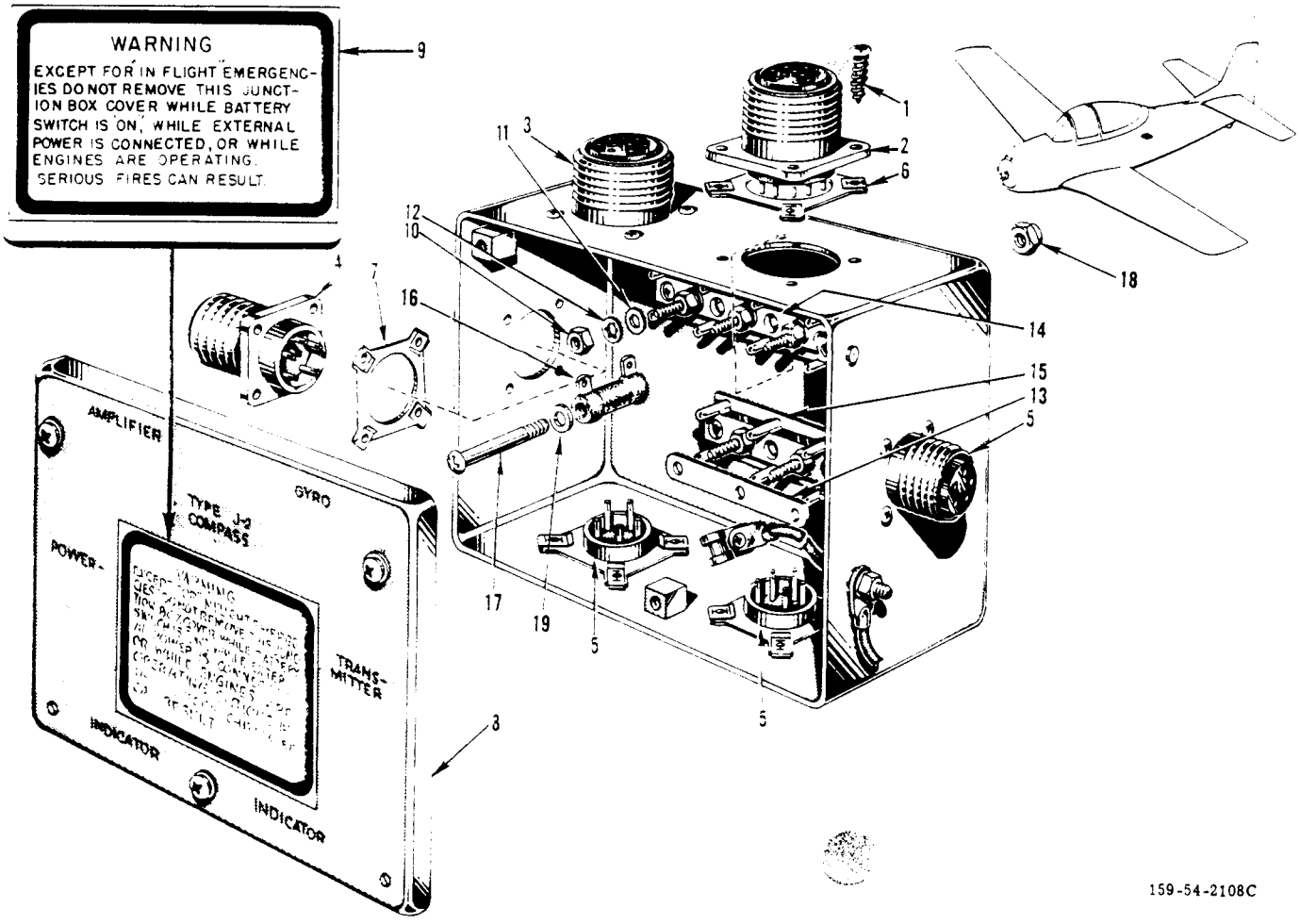


FIGURE 169 - ELECTRICAL ENGINE POWER JUNCTION UPPER PANEL ASSEMBLY

FUSELAGE ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
169	[illegible]	PANEL ASSEMBLY, Electrical engine power junction upper . . . . . (See figure 150 for next assembly)	Ref	4-268
	171-54055	PANEL ASSEMBLY, Electrical engine power junction upper . . . . . (See figure 151 for next assembly)	Ref	269-
-1	AN515-6R4	. SCREW	[illegible]	4-268 269-
	AN525-6R4	. SCREW		
-2	AN3161P20	. CIRCUIT BREAKER		
-3	AN3161P5	. CIRCUIT BREAKER		4-268
-4	AN365-1140	. NUT		4-268
-5	AN515-4R5	. SCREW		4-268
-6	AN345-3	. NUT		4-268
-7	AN935A6	. WASHER		4-268
-8	AN960-6	. WASHER		4-268
-9	MAC4M-6-6	. PANEL ASSEMBLY, Electrical connector		4-268
-10	[illegible]	. BUS BAR, Electrical ammeter shunt		4-268
	171-54053	. BUS BAR, Electrical ammeter shunt		269-
-11	[illegible]	. BUS BAR, Electrical battery relay		4-268
-12	[illegible]	. BUS BAR, Electrical relay		
-13	[illegible]	. BUS BAR, Electrical generator relay		
-14	AN515-10R6	. SCREW		
-15	AN3022-1	. SWITCH, (differential) (DFAE)		
-16	AN515-10R12	. SCREW		
-17	[illegible]-X19	. SHUNT, External ammeter light weight type MSB301 (50 M.V.) (200A) (General Elec) (Spec JAN-301)		
-18	AN3371-2	. RELAY, 200 Amp 2 PDT intermittent (Leach Relay No. 7264-570-1 or Cutler-Hammer No. 6041H171A)	1	
-19	AN515-10R10	. SCREW		
-20	[illegible]	. PANEL ASSEMBLY, Electrical power junction connector		4-268
	[illegible]-10	. PANEL ASSEMBLY, Electrical power junction connector		269-
-21	AN365D6	. . NUT		4-268
	AN365D8	. . NUT		269-
-22	AN507B616R26	. . SCREW		4-268
	AN507B616R28	. . SCREW		269-
-23	AN935-616L	. . WASHER		4-268
	AN935-616L	. . WASHER		269-
-24	AN931-616	. . WASHER		4-268
	AN931-616	. . WASHER		269-
-25	AN930A616	. . WASHER		4-268
	AN930A616	. . WASHER		269-
-26	AN365-10	. . NUT		
-27	AN507B1032R16	. . SCREW		
-28	AN935-10L	. . WASHER		
-29	AN931-10	. . WASHER		
-30	AN930A10	. . WASHER		
-31	[illegible]-54119	. . BUS BAR, Electrical power junction connector panel		4-268
	[illegible]-54119-10	. . BUS BAR, Electrical power junction connector panel		269-
-32	[illegible]-54122	. . PANEL, Electrical power junction connector		4-268
	[illegible]-54122-10	. . PANEL, Electrical power junction connector		269-
-33	[illegible]-54123	. . INSULATOR, Electrical power junction connector panel . . .		
-34	AN3-9A	. SCREW	2	4-268
	AN960D10	. WASHER	2	4-268
-35	AN3370-2	. RELAY, (Leach Relay No. 7264-570 or Cutler Hammer No. 6041H170A)	1	4-268
-36	[illegible]-54112	. PANEL ASSEMBLY, Electrical engine power junction upper . . .	1	269-
	171-54054	. PANEL ASSEMBLY, Electrical engine power junction upper . . .		
-37	AN3-4A	. BOLT	2	
	AN960D10	. WASHER		

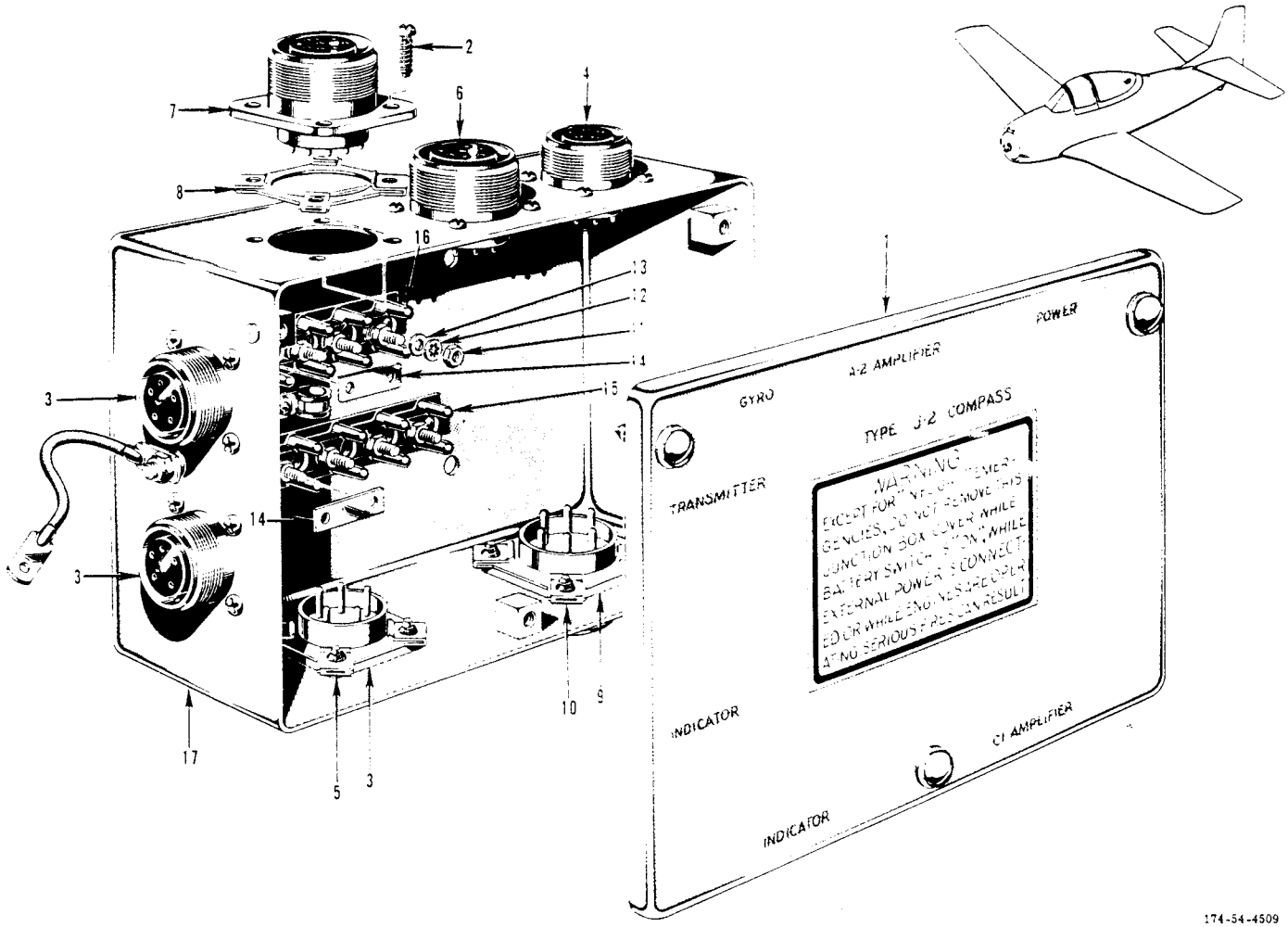


159-54-2108C

FIGURE 170 - ELECTRICAL GYRO COMPASS JUNCTION BOX ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
170	159-54141	*1	BOX ASSY, Complete electrical gyro compass junction (see figure 155 for next assembly)	Ref	4-268
	171-54041	*1	BOX ASSY, Complete electrical gyro compass junction (see figure 158 for next assembly)	Ref	269-593
-1	AN530--R6	*1	. SCREW	24	4-268
	AN530-4R6	*1	. SCREW	28	269-593
-2	AN3102-20-29S	*1	. RECEPTACLE	1	4-593
-3	AN3102-20-27S	*1	. RECEPTACLE	1	4-593
-4	AN3102-14S5P	*1	. RECEPTACLE	1	4-593
-5	AN3102-14S5S	*1	. RECEPTACLE	3	4-268
	AN3102-14S5S	*1	. RECEPTACLE	4	269-593
-6	A6974-20--1	*1	. RETAINER RING (Tinnerman)	2	4-593
-7	A6974-14--1	*1	. RETAINER RING (Tinnerman)	4	4-268
	A6974-14-41	*1	. RETAINER RING (Tinnerman)	6	269-593
-8	159-54143	*1	. COVER ASSY, Electrical gyro compass junction box	1	4-268
	171-54043	*1	. COVER ASSY, Electrical gyro compass junction box	1	269-593
-9	151-54094	*1	. . DECALCOMANIA, Junction box cover warning	1	4-268
	1D138	*1	. . DECAL MARKING (North American)	1	269-593
-10	AN340-6	*1	. NUT	8	4-268
	AN340-6	*1	. NUT	10	269-593
-11	AN960-6	*1	. WASHER	8	4-268
	AN960-6	*1	. WASHER	10	269-593
-12	AN936A6	*1	. WASHER	8	4-268
	AN936A6	*1	. WASHER	10	269-593
-13	NAS44-6-3	*1	. BUS BAR, Electrical	1	4-268
	NAS44-6-4	*1	. BUS BAR, Electrical	1	269-593
-14	NAS45-6-5	*1	. PANEL ASSEMBLY, Electrical connector	1	4-268
	NAS45-6-6	*1	. PANEL ASSEMBLY, Electrical connector	1	269-593
-15	NAS45-6-3	*1	. PANEL ASSEMBLY, Electrical connector	1	4-268
	NAS45-6-4	*1	. PANEL ASSEMBLY, Electrical connector	1	269-593
-16	No Number	*1	. RESISTOR, Damping 200 ohms (type RW30201 Spec JAN-R26A)	1	4-593
-17	AN507-632R24	*1	. SCREW	1	61-593
-18	AN365-632	*1	. NUT	1	61-593
-19	2W1P9-12-40	*1	. WASHER, Plain (North American)	3	61-593

*1 Parts marked thus not used on Aircraft which have been modified in accordance with T. O. 1T-28-50.



174-54-4509

FIGURE 171 - COMPLETE ELECTRICAL TYPE A-2 COMPASS JUNCTION BOX ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
171	17[illegible]4041	*1		BOX ASSEMBLY, Electrical gyro compass junction complete	Ref	
				(see figure 15F and 15G for next assembly)		
-1	17[illegible]4043			COVER ASSEMBLY, Electrical gyro compass junction box	1	
	[illegible]			. DECAL MARKING	1	
-2	AN501-4R6			SCREW	21	
	AN501-4R7			SCREW		
-3	AN3102-14S-5			RECEPTACLE	3	
-4	AN3102-14S-5P			RECEPTACLE	1	
-5	AN[illegible]-14-1			RETAINER RING, Dimension	1	
-6	AN3102-20-27S			RECEPTACLE	1	
-7	AN3102-20-27P			RECEPTACLE	1	
-8	AN[illegible]-20-1			RETAINER RING, Dimension	2	
-9	AN3102-16S-1S			RECEPTACLE	1	
-10	AN[illegible]-16-1			RETAINER RING, Dimension	1	
-11	AN[illegible]-6			NUT	2	
-12	AN[illegible]A6			WASHER	2	
-13	AN[illegible]-6			WASHER	2	
-14	MA[illegible]-2			BUS BAR, Electrical	1	
-15	AN[illegible]-2-5			TERMINAL BLOCK ASSEMBLY	1	
-16	AN[illegible]-2-4			TERMINAL BLOCK ASSEMBLY	1	
-17	17[illegible]4042			BOX ASSEMBLY, Electrical gyro compass junction	1	

*1 Refer to T. O. 1T-28-50.

FUSELAGE ELECTRICAL (Cont).

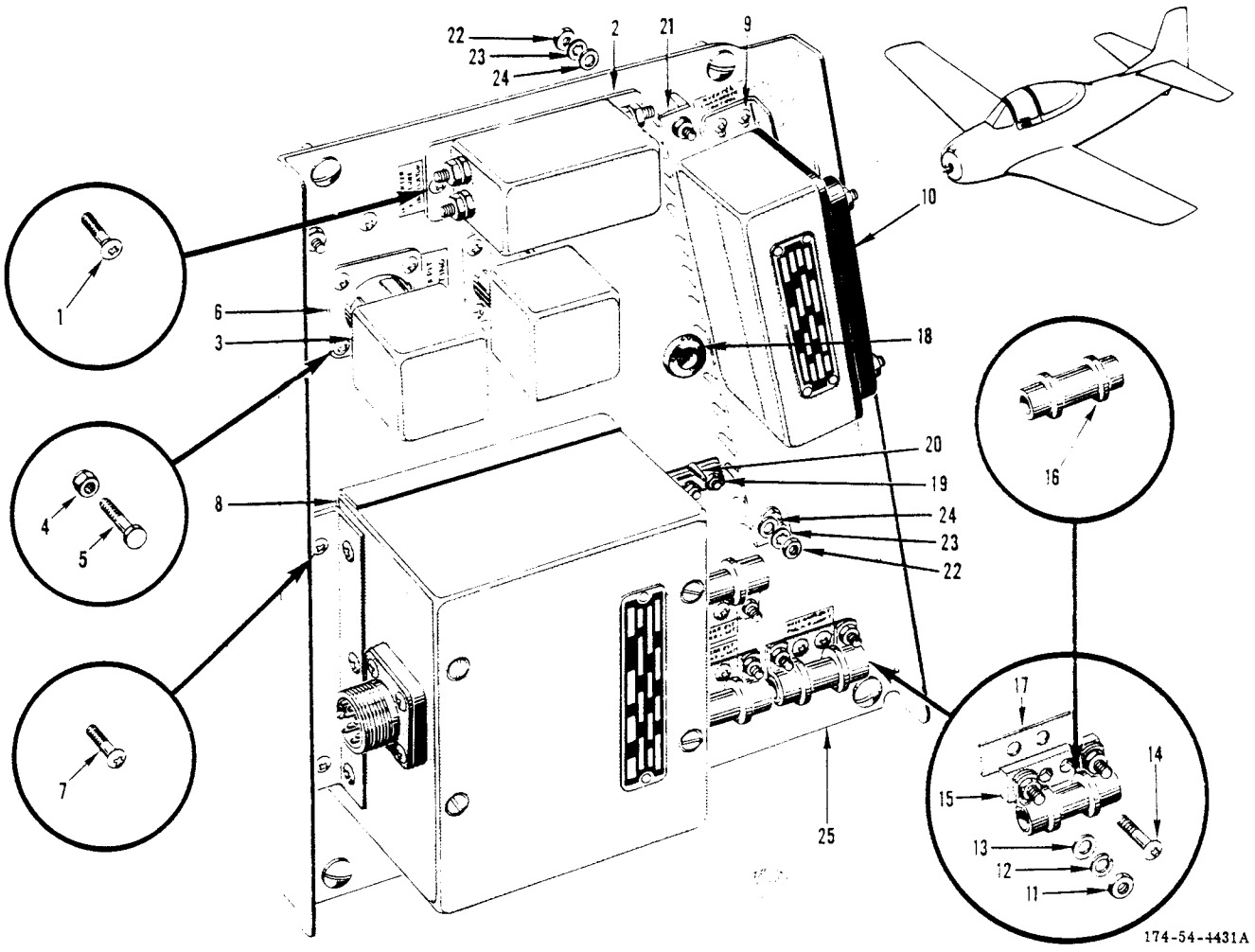


FIGURE 172 - COMPLETE ELECTRICAL AFT COCKPIT EQUIPMENT PANEL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
172	174-54100	PANEL ASSEMBLY, Electrical aft cockpit equipment complete . . . (see figure 148 for next assembly)	Ref	594-893
	174-54100-13	PANEL ASSEMBLY, Electrical aft cockpit equipment complete . . . (see figure 148 for next assembly)	Ref	894-
-1	AN507-1032R12	. SCREW	2	594-
-2	44B18574	. RELAY, Type D1	1	594-
-3	AN3308-1	. RELAY, 10 Amp 3 PDT connector mounting sealed	2	594-
-4	AN365-440	. NUT	8	594-
-5	AN515-4R8	. SCREW	8	594-
-6	AN3102A20-33S	. RECEPTACLE, (Spare inverter control)	2	594-
-7	AN3-4A	. BOLT	4	594-
-8	3YLZ2964	. CONTROL BOX ASSEMBLY, Remote positioning Barber Colman . .	1	594-
-9	AN520-10R8	. SCREW	1	594-
-10	45B7367	. CONTROL, Inverter changeover type A1	1	594-893
	666-154	. CONTROL ASSY, Inverter changeover type A1 automatic . . . . (Cook Electric Co.)	1	894-
-11	AN340-8	. NUT	6	594-
-12	AN935-8	. WASHER	6	594-
-13	AN960D8	. WASHER	6	594-
-14	AN515-8R12	. SCREW	6	594-
-15	159-54092	. RESISTOR ASSEMBLY, Electrical fuselage lights	3	594-
-16	3RW16506	. . RESISTOR, Fixed wire wound power type (Ohmite) Spec. . . . (JAN-R26A type RW 1d150C)	1	894-
-17	159-54097	. INSULATOR, Electrical resistor small	3	594-
-18	AN931-12-17	. GROMMET	1	594-
-19	MAS44-6-2	. BUS BAR, Electrical	1	594-
-20	AN3436-2-2	. TERMINAL BLOCK ASSEMBLY	1	594-
-21	AN3436-2-13	. TERMINAL BLOCK ASSEMBLY	1	594-
-22	AN341-6	. NUT	15	594-
-23	AN936A6B	. WASHER	15	594-
-24	AN961-6	. WASHER	15	594-
-25	174-54099	. PANEL ASSEMBLY, Electrical aft cockpit equipment	1	594-

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FUSELAGE RADIO

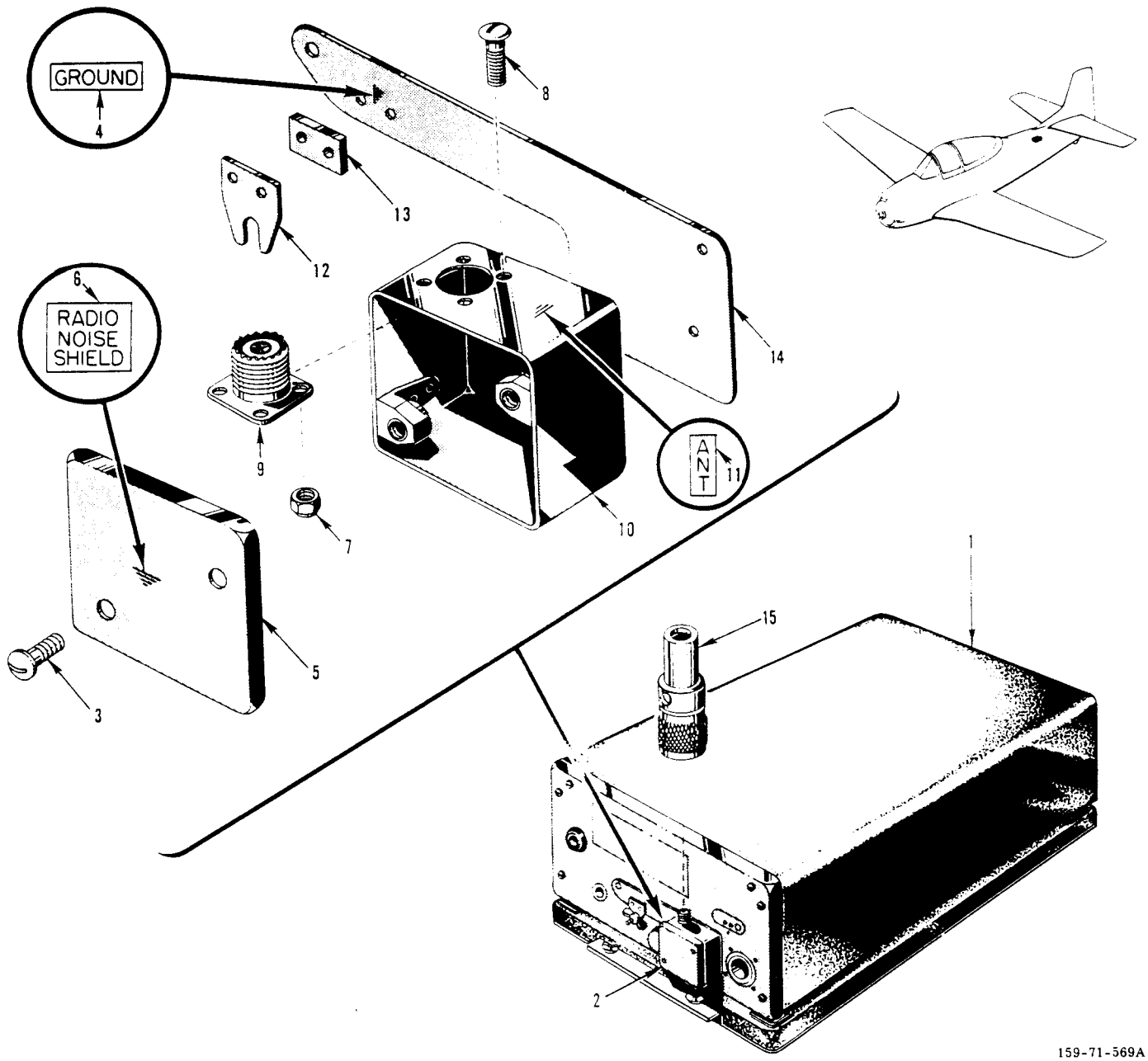


FIGURE 173 - R5A/ARN7 RADIO COMPASS RECEIVER ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
173	159-71137	RECEIVER ASSEMBLY, R5A/ARN7 Radio Compass (rework see Figure 176 for next assembly	Ref	4-268
-1	R5A/ARN7	. RECEIVER, Radio Compass (CPAE	1	4-268
-2	159-71132	. BOX ASSEMBLY, Radio Compass Receiver Noise Shield	1	4-268
-3	AN526-632-7	. . SCREW	2	4-268
-4	159-71140	. . DECAL, Radio Compass Receiver Noise Shield Plate	1	4-268
-5	159-71135	. . COVER, Radio Compass Receiver Noise Shield	1	4-268
-6	159-71150	. . DECAL, Radio Compass Receiver Noise Shield Cover	1	4-268
-7	AN365-440	. . NUT	4	4-268
-8	AN515-440	. . SCREW	4	4-268
-9	30239	. . RECEPTACLE, Chassis Mtg Box Type (American Phenolic)	1	4-268
-10	159-71134	. . SHIELD ASSEMBLY, Radio Compass Receiver Noise	1	4-268
-11	159-71148	. . DECAL, Radio Compass Receiver Noise Shield Box	1	4-268
-12	159-71130	. . TERMINAL, Radio Compass Receiver Noise Shield Ground	1	4-268
-13	159-71129	. . SPACER, Radio Compass Receiver Noise Shield Terminal	1	4-268
-14	159-71136	. . PLATE, Radio Compass Receiver Noise Shield Mounting	1	4-268
-15	PL259A	PLUG, Connector (American Phenolic) (Figure 176)	Ref	

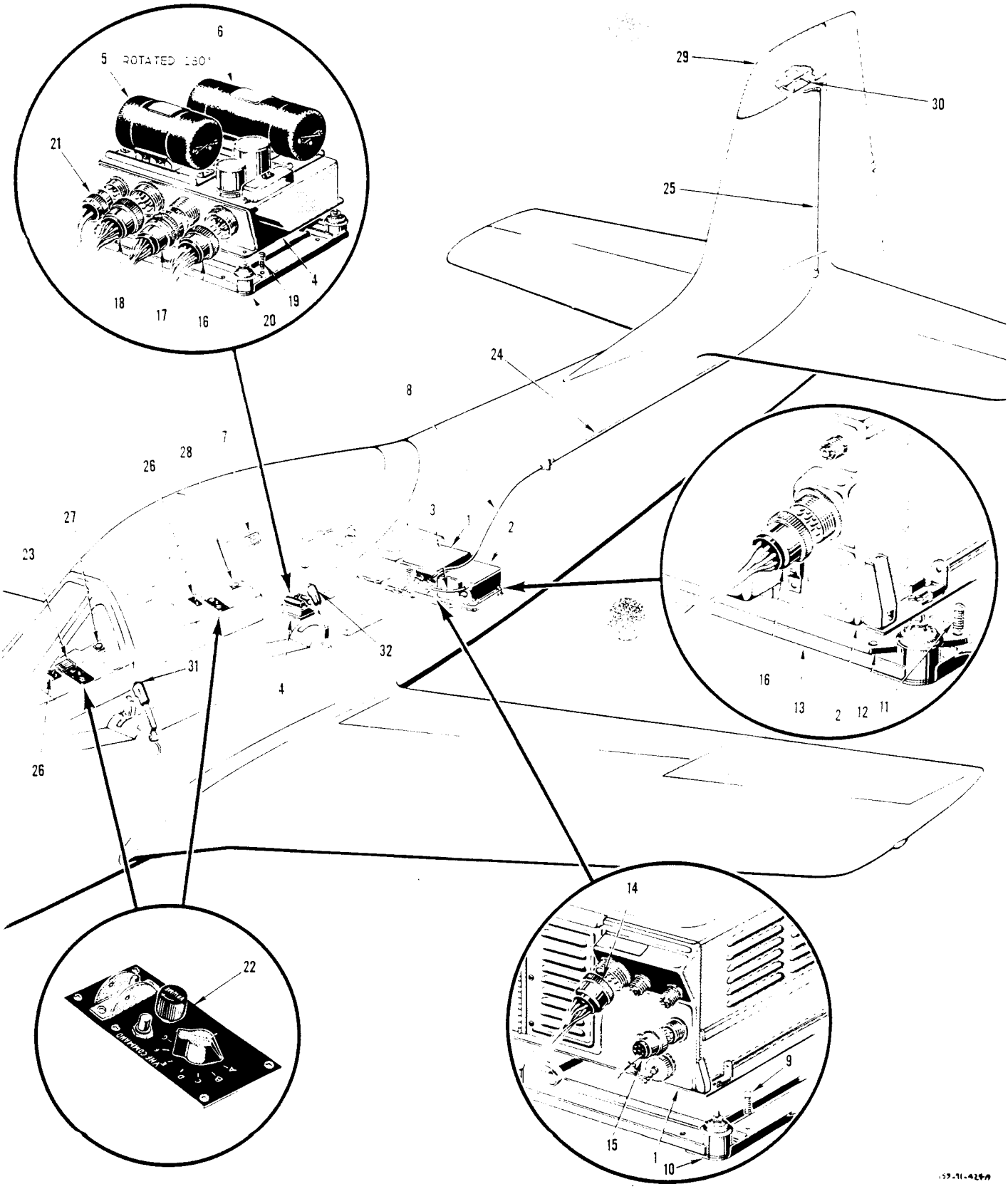


FIGURE 174 - AN/ARC3 RADIO EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
174			AN/ARC3 RADIO EQUIPMENT		
	159-71001		. RADIO SYSTEM EQUIPMENT INSTALLATION, Complete (see figure 1 for next assembly)	NP	4-268
-1	T67/ARC3	*1	. . TRANSMITTER (GFAE)	1	4-268
	CR1A/AR	*1	. . CRYSTAL UNIT (7550KC) (transmitter band A) (GFAE)	1	4-268
	CR1A/AR	*1	. . CRYSTAL UNIT (7010KC) (transmitter band B) (GFAE)	1	4-268
	CR1A/AR	*1	. . CRYSTAL UNIT (7650KC) (transmitter band C) (GFAE)	1	4-268
	CR1A/AR	*1	. . CRYSTAL UNIT (6750KC) (transmitter band D) (GFAE)	1	4-268
	CR1A/AR	*1	. . CRYSTAL UNIT (7600KC) (transmitter band G) (GFAE)	1	4-268
	CR1A/AR	*1	. . CRYSTAL UNIT (7450KC) (transmitter band H) (GFAE)	1	4-268
-2	R77A/ARC3	*1	. . RECEIVER (GFAE) (R77/ARC3 may be substituted)	1	4-268
	CR1A/AR	*1	. . CRYSTAL UNIT (8200KC) (receiver band A) (GFAE)	1	4-268
	CR1A/AR	*1	. . CRYSTAL UNIT (8155.71) (receiver band B) (GFAE)	1	4-268
	CR1A/AR	*1	. . CRYSTAL UNIT (8392.00) (receiver band C) (GFAE)	1	4-268
	CR1A/AR	*1	. . CRYSTAL UNIT (8423.00) (receiver band D) (GFAE)	1	4-268
	CR1A/AR	*1	. . CRYSTAL UNIT (8320.00) (receiver band G) (GFAE)	1	4-268
	CR1A/AR	*1	. . CRYSTAL UNIT (8140.00) (receiver band H) (GFAE)	1	4-268
-3	RG8/U	*1	. . CABLE, Co-axial (GFAE)	18 in.	4-268
	PL259A	*1	. . PLUG (GFAE)	2	4-268
-4	J68/ARC3	*1	. . POWER JUNCTION BOX (GFAE)	1	4-268
-5	DY21/ARC3	*1	. . DYNAMOTOR UNIT (GFAE)	1	4-268
-6	DY22/ARC3	*1	. . DYNAMOTOR UNIT (GFAE)	1	4-268
-7	153-71172	*1	. . CARD, Frequency channel designation	1	4-268
	159-71054	*1	. . GUARD, Frequency instruction card	1	4-268
	159-71131		. RADIO EQUIPMENT INSTL, Fuselage station 168 to 238 (see figure 33 for next assembly)	NP	4-268
-8	RG8/U	*1	. . CABLE, Co-axial (GFAE)	60 in.	4-268
	PL259A	*1	. . PLUG (forward) (GFAE)	1	4-268
	UG22C/U	*1	. . PLUG (aft) (American Phenolic)	1	4-268
-9	AN520-10R8	*1	. . SCREW	8	4-268
-10	MT238A/ARC3	*1	. . MOUNTING BASE (GFAE)	1	4-268
-11	AN520-10R8	*1	. . SCREW	8	4-13
	AN520-10R12	*1	. . SCREW	8	14-268
-12	159-71139	*1	. . SPACER, Radio equipment fuselage sta 199 mounting	4	14-268
-13	MT237A/ARC3	*1	. . MOUNTING BASE (GFAE)	1	4-268
-14	U15/U	*1	. . PLUG (GFAE)	1	4-268
-15	PL151A	*1	. . PLUG (GFAE)	1	4-268
-16	PL153A	*1	. . PLUG (GFAE)	2	4-268
-17	U16/U	*1	. . PLUG (GFAE)	1	4-268
-18	U15/U	*1	. . PLUG (GFAE)	1	4-268
	159-71431		. RADIO EQUIPMENT INSTL, Fuselage station 168 (see figure 51 for next assembly)	NP	4-268
-19	AN520-10R10	*1	. . SCREW	8	4-268
-20	MT236/ARC3	*1	. . MOUNTING BASE (GFAE)	1	4-268
	159-71031		. RADIO EQUIPMENT INSTL, Fuselage station 49 1/2 to 168 RH side (see figure 58 for next assembly)	NP	4-80
	159-71091		. RADIO EQUIPMENT INSTL, Fuselage station 49 1/2 to 168 RH side (see figure 58 for next assembly)	NP	81-268
-21	PL148A	*1	. . PLUG (GFAE)	1	4-268
-22	C4C4/A	*1	. . VHF COMMAND CONTROL PANEL (GFAE)	2	4-80
	157-71042	*1	. . ADAPTER ASSEMBLY, AN/ARC3 Radio control panel	4	4-80
-23	153-71172	*1	. . CARD, Frequency channel designation	1	4-268
	15C1-5	*1	. . GUARD, Frequency instruction card (Super 159-71054)	1	4-268
	159-71123		. RADIO EQUIPMENT INSTALLATION, Fuselage aft (see figure 55 for next assembly)	NP	4-268
-24	RG8/U	*1	. . CABLE, Co-axial (GFAE)	100 in.	4-268
	UG21B/U	*1	. . PLUG (forward) (GFAE)	1	4-268
	UG22C/U	*1	. . PLUG (aft) (GFAE)	1	4-268
	159-71023		. ANTENNA CABLE INSTALLATION, Radio VHF-UHF vertical stabilizer (see figure 44 for next assembly)	NP	4-268
-25	RG8/U		. . CABLE, Co-axial (GFAE)	75 in.	4-268
	UG21B/U		. . PLUG (American Phenolic) (UG21C/U may be used)	2	4-268
-26	159-71037-5		PANEL ASSEMBLY, Radio transfer control (see figure 178)	Ref	
-27	159-71068-10		JACK ASSEMBLY, Radio hand microphone mount (see fig. 178)	Ref	
-28	159-71068-20		JACK ASSEMBLY, Radio hand microphone mount (see fig. 178)	Ref	
-29	159-71024		TIP ASSEMBLY, Vertical stabilizer radio antenna (see fig. 44)	Ref	
-30	159-71021		PYRAMID ASSEMBLY, VHF-UHF Radio antenna (see figure 44)	Ref	
-31	159-43016		LEVER ASSEMBLY, Engine control front quadrant throttle (microphone switch) (see figure 232)	Ref	
-32	159-43116		LEVER ASSEMBLY, Engine control rear quadrant throttle (microphone switch) (see figure 235)	Ref	

*1 This equipment not used on aircraft modified in accordance with T. O. 1T-28-50 to include AN/ARC27 radio set. See Figure 181 for AN/ARC27 installation.

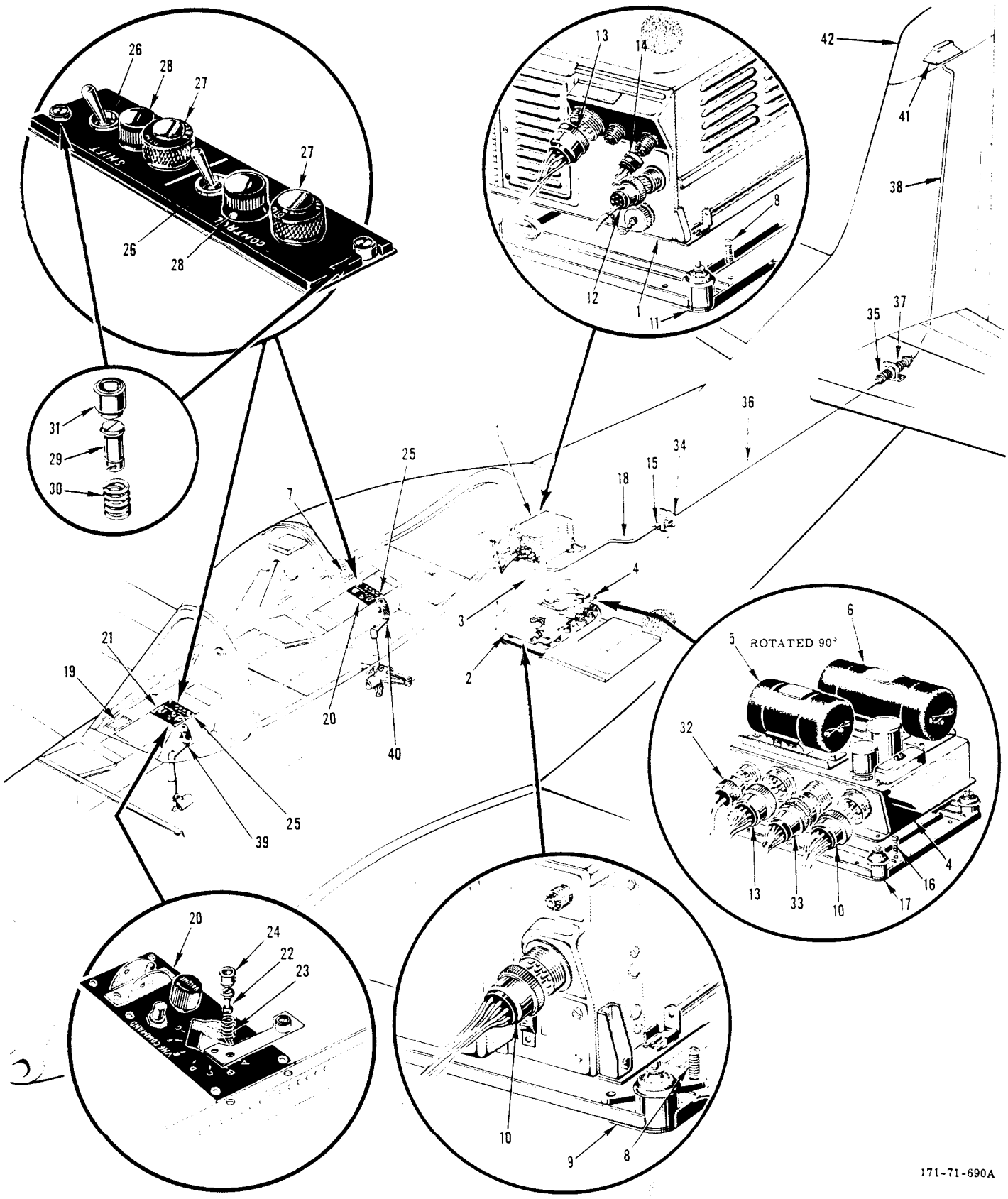


FIGURE 175 - AN/ARC3 RADIO EQUIPMENT

FUSELAGE RADIO (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
175			AN/ARC3 RADIO EQUIPMENT		
	171-71001		. RADIO SYSTEM EQUIP. INSTL, Complete (see fig. 1 for next assy)	NP	269-593
-1	T67/ARC3	*1	. . TRANSMITTER, (GFAE)	1	269-593
	CR1A/AR	*1	. . CRYSTAL UNIT, (7550KC) (GFAE)	1	269-593
	CR1A/AR	*1	. . CRYSTAL UNIT, (7010KC) (GFAE)	1	269-593
	CR1A/AR	*1	. . CRYSTAL UNIT, (7660KC) (GFAE)	1	269-593
	CR1A/AR	*1	. . CRYSTAL UNIT, (6750KC) (GFAE)	1	269-593
	CR1A/AR	*1	. . CRYSTAL UNIT, (7600KC) (GFAE)	1	269-593
	CR1A/AR	*1	. . CRYSTAL UNIT, (7450KC) (GFAE)	1	269-593
-2	R77A/ARC3	*1	. . RECEIVER, (GFAE)	1	269-593
	CR1A/AR	*1	. . CRYSTAL UNIT (8200KC) (GFAE)	1	269-593
	CR1A/AR	*1	. . CRYSTAL UNIT (8155.71KC) (GFAE	1	269-593
	CR1A/AR	*1	. . CRYSTAL UNIT (8392.00KC) (GFAE	1	269-593
	CR1A/AR	*1	. . CRYSTAL UNIT (8220.00KC) (GFAE	1	269-593
	CR1A/AR	*1	. . CRYSTAL UNIT (8421.08KC) (GFAE	1	269-593
	CR1A/AR	*1	. . CRYSTAL UNIT (8140.00KC) (GFAE	1	269-593
	171-71092	*1	. . WIRING DIAGRAM, AN/ARC3 Radio fus sta 197 3/8 antenna cable	1	269-593
-3	RG8/U	*1	. . . CABLE, Co-axial (American Phenolic) (25 1/2 inches)	1	269-593
	PL-259A	*1	. . PLUG (American Phenolic)	2	269-593
-4	T68/ARC3	*1	. . POWER JUNCTION BOX (GFAE)	1	269-593
-5	DY21/ARC3	*1	. . DYNAMOTOR UNIT (GFAE)	1	269-593
-6	DY22/ARC3	*1	. . DYNAMOTOR UNIT (GFAE)	1	269-593
-7	159-71172	*1	. . CARD, Frequency channel designation	1	269-593
	1501-5	*1	. . GUARD, Frequency instruction card (North American) (supersedes 159-71054)	1	269-593
	171-71131		. RADIO EQUIP. INSTL, Fus sta 168 to 236 (see fig. 83 for next assembly)	NP	269-593
-8	AN525-10R8	*1	. . SCREW	8	269-593
-9	MT236E/ARC3	*1	. . MOUNTING BASE (GFAE) (MT236A/ARC3 may be substituted)	1	269-593
-10	PL-259A	*1	. . PLUG (Novelty Tool Co. No. 2Z7226-259A)	2	269-593
-11	MT236A/ARC3	*1	. . MOUNTING BASE (GFAE) (MT236E/ARC3 may be substituted)	1	269-593
-12	PL-259A	*1	. . PLUG (Novelty Tool Co. No. 2Z7226-259A)	2	269-593
-13	UG-[illegible]	*1	. . PLUG (Novelty Tool Co.)	2	269-593
-14	PL-259A	*1	. . PLUG (American Phenolic)	1	269-593
-15	UG-[illegible]	*1	. . PLUG (American Phenolic)	1	269-593
-16	AN525-10R10	*1	. . SCREW	4	269-593
-17	MT236/ARC3	*1	. . MOUNTING BASE (GFAE) (MT236A/ARC3 or MT236E ARC3 may be sub)	1	269-593
	171-71022	*1	. . WIRING DIAGRAM, Radio equip. fus sta 168 to 236 7/8	NP	269-593
-18	RG8/U	*1	. . . CABLE, Co-axial (American Phenolic)	1	269-593
	171-71031		. RADIO EQUIPMENT INSTL, Fus sta -9 1/2 to 168 RH side (see figure 81 for next assembly)	NP	269-593
-19	159-71172	*1	. . CARD, Frequency channel designation	1	269-593
	1501-5	*1	. . GUARD, Frequency instruction card (North American)	1	269-593
-20	C-[illegible]A	*1	. . VHF COMMAND CONTROL PANEL (GFAE)	2	269-593
-21	187-71042	*1	. . ADAPTER ASSY, AN/ARC3 Radio control panel	4	269-593
-22	[illegible] 1-2 -38	*1	. . . FASTENER (Dzus Fastener)	2	269-593
-23	[illegible] 1-2	*1	. . . SPRING (Dzus Fastener)	2	269-593
-24	[illegible] 1-2	*1	. . . CUP (Dzus Fastener)	2	269-593
-25	171-71028	*1	. . PANEL ASSY, Transfer control edge lighted radio	2	269-593
	171-71028-9	*1	. . PANEL ASSY, Transfer control edge lighted radio	2	269-593
-26	AN3021-3	*1	. . . SWITCH	2	269-593
	AN3021-3	*1	. . . SWITCH	1	269-593
-27	AN3167-3	*1	. . . LIGHT ASSY, Press to test indicator	2	269-593
	AN3167-3	*1	. . . LIGHT ASSY, Press to test indicator	1	269-593
	AN3121-313	*1	. . . LAMP	2	269-593
	AN3121-313	*1	. . . LAMP	1	269-593
-28	AN3602-2A	*1	. . . LIGHT ASSY, Control panel plastic lighting plate	2	269-593
	327	*1	. . . LAMP, T1 3/4 Bulb midget flange base (General Electric)	2	269-593
	171-71026	*1	. . . PLATE ASSY, Radio transfer control	2	269-593
-29	[illegible] 1-2 -38	*1	. . . . FASTENER (Dzus Fastener)	2	269-593
-30	[illegible] 1-2	*1	. . . . SPRING (Dzus Fastener)	2	269-593
-31	[illegible] 1-2	*1	. . . . CUP (Dzus Fastener)	2	269-593
-32	PL-[illegible]A	*1	. . PLUG (Novelty Tool Co.	1	269-593
-33	UG-[illegible]/U	*1	. . PLUG (Novelty Tool Co. No. 2Z7250-16)	1	269-593
	159-71123		. RADIO EQUIPMENT INSTL, Fus aft (see fig. 55 for next assy)	NP	269-593
-34	UG21C/U	*1	. . PLUG (forward) (American Phenolic)	1	269-593
-35	UG22C/U	*1	. . PLUG (aft) (American Phenolic)	1	269-593
	171-71134	*1	. . WIRING DIAGRAM, Radio VHF antenna cable fuselage station 236 7/8 to 339 1/8	NP	269-593
-36	RG8/U	*1	. . . CABLE, Co-axial (9 ft.) (American Phenolic)	1	269-593
	159-71023	*1	. ANTENNA CABLE INSTL, Radio VHF-UHF vertical stabilizer (see figure 44 for next assembly)	NP	269-593
-37	UG21C/U	*1	. . PLUG (American Phenolic)	2	269-593
	171-71144	*1	. . WIRING DIAGRAM, Radio VHF antenna cable vert. stab.	NP	269-593
-38	RG8/U	*1	. . . CABLE, Co-axial (7 ft.) (American Phenolic)	1	269-593
-39	159-[illegible]3016		LEVER ASSY, Eng control front quadrant throttle (microphone switch) (see figure 232)	Ref	
-40	159-[illegible]3116		LEVER ASSY, Eng control quadrant throttle (microphone switch) (see figure 235)	Ref	
-41	159-71021		PYRAMID ASSEMBLY, VHF-UHF Radio antenna (see figure 44)	Ref	
-42	159-71024		TIP ASSEMBLY, Vertical stab. radio antenna (see figure 44)	Ref	

*1 This equipment not used on aircraft modified in accordance with T. O. 1T-28-50 to include AN/ARC27 radio set. See fig. 181 for AN/ARC27 installation.

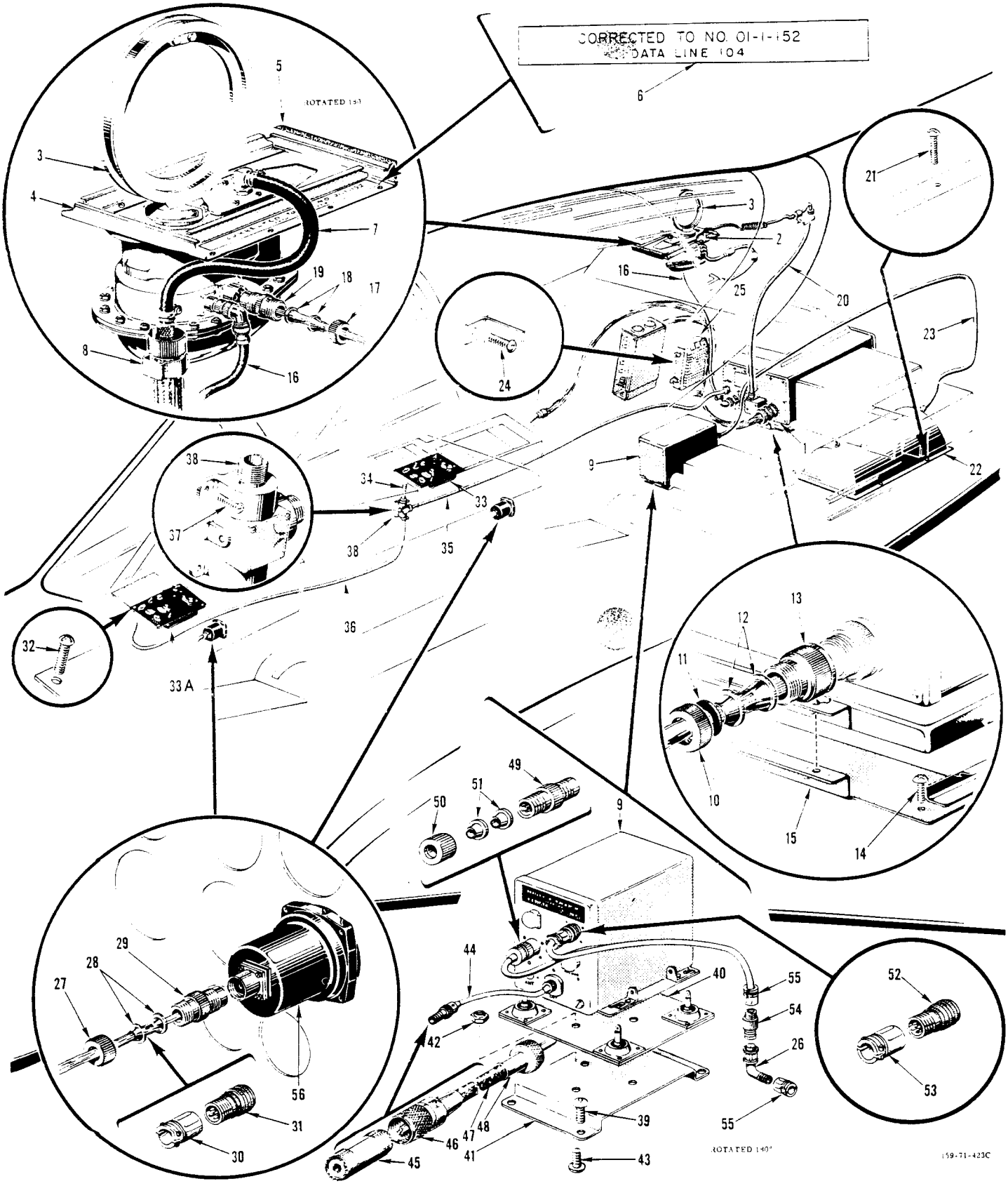


FIGURE 176 - AN/ARN7 RADIO COMPASS AND MARKER BEACON EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
176		AN/ARN7 RADIO COMPASS AND MARKER BEACON EQUIPMENT		
	159-71001	. RADIO SYSTEM EQUIPMENT INSTALLATION, Complete (see figure 1 for next assembly)	NP	4-268
	171-71001	. RADIO SYSTEM EQUIPMENT INSTALLATION, Complete (see fig. 1)	NP	269-270
-1	159-71137	. . RECEIVER ASSY, BC1333(A)/ARN7 Radio compass (rework) (see fig. 173 for detail breakdown and attaching parts)	1	4-268
-2	159-71107	. . SUPPORT, Radio compass sense antenna coiled cord	1	4-268
-3	159-71056	. . LOOP ASSEMBLY, Radio compass LP31A	1	4-268
	LP31AM	. . . LOOP (GFAE) (LP31A may be used)	1	4-268
-4	159-71111	. . . SUPPORT ASSEMBLY, LP31A Radio loop antenna	1	4-268
-5	159-71111-7	. . . . BUMPER, Synthetic sponge rubber	1	4-268
-6	159-71053	. . . DECAL, Radio compass look calibration	3	4-268
-7	No Number	. . HOSE, 5/16 ID Dehydrator (GFAE)	24 in.	4-268
-8	2Z3602-2	. . LOOP DEHYDRATOR (GFAE)	1	4-268
-9	BC1333( )	. . RECEIVER, Marker beacon (GFAE) (RC193A equipment)	1	4-270
	159-71131	. RADIO EQUIPMENT INSTL, Fus sta 168 to 238 (see fig. 83)	1	4-268
-10	113-1-1000	. . COUPLING NUT (Breeze Corp.)	1	4-268
-11	2W1052-6-20	. . WASHER, Plain (North American)	1	4-268
-12	AF33	. . FERRULE (Simplet Electric)	1	4-268
-13	PL122	. . PLUG (GFAE)	1	4-268
-14	AN520-10R8	. . SCREW	6	4-268
-15	FT213	. . MOUNTING BASE (GFAE)	1	4-268
-16	CG-2/ARN	. . LOOP CORD (GFAE)	1	4-39
	CG-2/ARN	. . LOOP CORD (Kings Electronics)	1	40-268
-17	AN3054-10	. . NUT	1	4-268
-18	AF33	. . FERRULE (Simplet Electric)	1	4-268
-19	PL112	. . PLUG (GFAE)	1	4-268
-20	RG8U	. . CABLE, Co-axial (Federal Telephone and Radio)	120 in.	4-268
	UG224/U	. . PLUG (American Phenolic)	1	4-268
	PL259A	. . PLUG (American Phenolic)	1	4-268
-21	AN520-10R8	. . SCREW	8	4-268
-22	AS215/ARN	. . ANTENNA, Marker beacon (GFAE)	1	4-268
-23	RG8/U	. . CABLE, Co-axial (GFAE)	60 in.	4-268
	PL259A	. . PLUG (GFAE)	2	4-268
-24	AN515-8R7	. . SCREW	6	4-268
-25	BK22K	. . RELAY (GFAE) (BK22L may be substituted)	1	4-268
-26	AN3108-18-9S	. . PLUG (marker beacon	1	4-268
	AN3057-10A	. . ADAPTER	1	4-268
	159-71331	. RADIO EQUIP. INSTL, Fus fwd (see fig. 51 for next assembly)	NP	4-268
-27	AN3054-10	. . NUT	2	4-180
-28	AF33	. . FERRULE (Simplet Electric)	2	4-180
-29	PL113	. . PLUG (GFAE)	2	4-180
-30	AN3057-6A	. . ADAPTER	2	181-268
-31	AN3106-14S2S	. . PLUG	2	181-268
	159-71031	. RADIO EQUIPMENT INSTALLATION, Fuselage station 49 1/2 to 168 RH side (see figure 58 for next assembly)	NP	4-80
	159-71091	. RADIO EQUIPMENT INSTALLATION, Fuselage station 49 1/2 to 168 RH side (see figure 58 for next assembly)	NP	81-268
-32	AN515-6R7	. . SCREW	8	4-80
-33	174-71064-1	. . PANEL ASSEMBLY, Radio compass control (altered from GFAE C411/A radio compass control)	1	4-80
-33A	174-71064-3	. . PANEL ASSEMBLY, Radio compass control (altered from GFAE C411/A radio compass control)	1	4-80
-34	MC124	. . TUNING SHAFT (F.W. Stewart)	21 in.	4-268
-35	MC124	. . TUNING SHAFT (F.W. Stewart)	68 in.	4-268
-36	MC124	. . TUNING SHAFT (F.W. Stewart)	93 in.	4-268
-37	AN515-6R12	. . SCREW	4	4-268
-38	MC203	. . COUPLING (GFAE)	1	4-268
	159-71431	. RADIO EQUIP. INSTL, Fus sta 168 (see fig. 51 for next assy)	NP	4-268
	171-71431	. RADIO EQUIP. INSTL, Fus sta 168 (see fig. 51 for next assy)	NP	269-270
-39	AN515-8R8	. . SCREW	4	4-270
	159-71609	. . ADAPTER ASSY, BC1333-(A) Radio receiver mounting	1	41-270
-40	FT161	. . . MOUNTING, Radio receiver (GFAE)	1	41-270
-41	159-71610	. . . PLATE, BC1333( ) Radio receiver adapter	1	41-270
-42	AN365-832	. . . NUT	4	41-270
-43	AN515-8R7	. . . SCREW	3	41-270
	AN515-8R8	. . . SCREW	1	41-270
-44	159-71608	. . ADAPTER ASSEMBLY, AN/ARN12 Antenna cable to BC1333(A) receptacle	1	4-268
	159-71608-10	. . ADAPTER ASSEMBLY, AN/ARN12 Antenna cable to BC1333(A) receptacle	1	269-270
-45	PL258	. . . JUNCTION (American Phenolic)	1	4-270
-46	PL259A	. . . PLUG (American Phenolic)	1	4-270
-47	RG8/U	. . . CABLE, Co-axial (American Phenolic)	1	4-270
-48	P101-5/16	. . . PLUG (Howard B. Jones)	1	4-270
-49	AA25745	. . PLUG (Bendix Radio Div.)(Breeze No. E1002-27-6 may be used)	1	4-270
-50	AN3054-6	. . NUT	1	4-270
-51	AF22	. . FERRULE (Simplet Electric)	1	4-270
-52	AN3106-12S3P	. . PLUG	1	4-270
-53	AN3057-4A	. . ADAPTER	1	4-270
-54	AN3101-18-9P	. . RECEPTACLE	1	4-270
-55	AN3057-10A	. . ADAPTER	2	4-270
-56	I81L	COMPASS INDICATOR (see figure 100)	Ref	

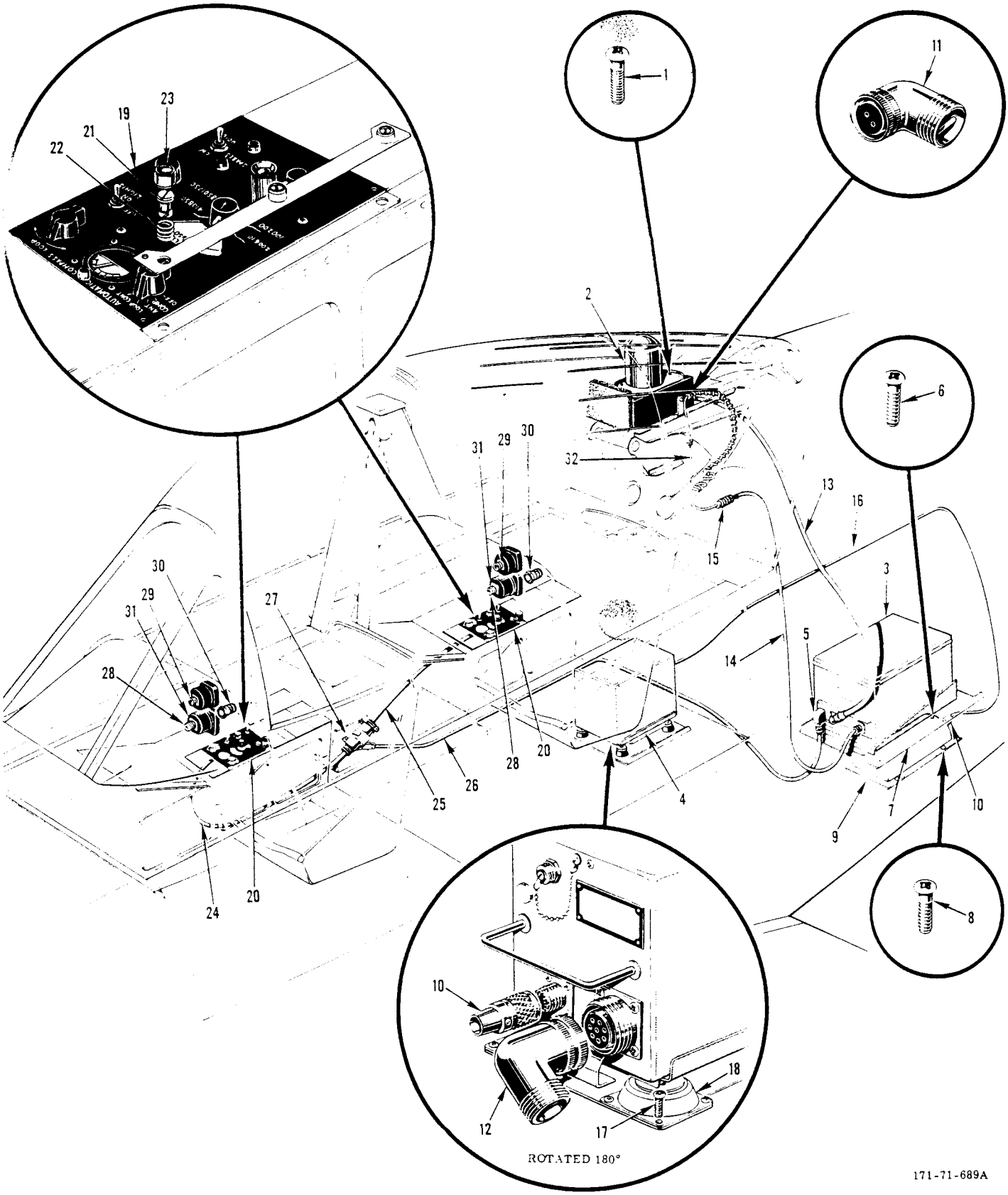


FIGURE 177 - AN/ARN6 RADIO COMPASS AND MARKER BEACON EQUIPMENT

FUSELAGE RADIO (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
177		AN/ARN6 RADIO COMPASS AND MARKER BEACON EQUIPMENT		
	171-71001	. RADIO SYSTEM EQUIPMENT INSTALLATION, Complete (see Figure 1 for next assembly)	NP	269-843
-1	AN515-10R8	. . SCREW	4	269-843
-2	AS313A/ARN6	. . LOOP ANTENNA (GFAE) (AS313B/ARN6 may be substituted)	1	269-843
-3	R101A/ARN6	. . RECEIVER, Radio compass (GFAE)	1	269-843
-4	R122/ARN12	. . RECEIVER, Marker beacon (GFAE) (R122A/ARN12 may be sub)	1	271-843
-5	5373X	. . ADAPTER, 90° (S.S. White Dental) (MC136 or MC136A may be substituted)	1	271-843
	171-71131	. RADIO EQUIPMENT INSTALLATION, Fuselage station 168 to 238 (see Figure 83 for next assembly)	NP	269-593
	174-71131	. RADIO EQUIPMENT INSTALLATION, Fuselage station 168 to 238 (see Figure 83 for next assembly)	NP	594-843
-6	AN515-8R10	. . SCREW	8	269-843
-7	MT273B/ARN6	. . MOUNTING (GFAE) (GFAE No. MT273D/ARN6 or MT273E/ARN6 may be substituted	8	269-843
-8	AN520-10R8	. . SCREW	8	269-843
-9	AS215/ARN	. . ANTENNA, Marker beacon (GFAE)	1	269-843
-10	PL259A	. . PLUG (American Phenolic)	2	271-843
-11	AN3108-16S1S	. . PLUG (Loop antenna)	1	269-843
	AN3057-8A	. . ADAPTER	1	269-843
-12	AN3108-18-9S	. . PLUG (marker beacon receiver)	1	271-843
	AN3057-10A	. . ADAPTER	1	271-843
-13	CG132/ARN6	. . LOOP CORD (Bendix Radio)	1	269-843
-14	CG405/ARN6	. . CORD, Sense antenna (Fairchild Camera and Instrument)	1	269-843
-15	UG224/U	. . ADAPTER (American Phenolic)	1	269-843
	171-71022	. . WIRING DIAGRAM, Radio equipment Fuselage station 168 to 238 T/S	NP	269-395
	174-71122	. . WIRING DIAGRAM, Radio equipment Fuselage station 168 to 238 T/S	NP	396-593
	174-71022	. . WIRING DIAGRAM, Rear section radio	NP	594-843
-16	RG8/U	. . . CABLE, Co-axial (American Phenolic)	1	269-843
	171-71431	. RADIO EQUIPMENT INSTALLATION, Fuselage station 168 (see Figure 81 for next assembly)	NP	269-843
-17	AN515-6R10	. . SCREW	8	271-843
-18	MT589/ARN12	. . MOUNTING (GFAE)	1	271-843
	171-71031	. RADIO EQUIPMENT INSTALLATION, Fuselage station 49 1/2 to 168 RH side (see Figure 58 for next assembly)	NP	269-593
	174-71031	. RADIO EQUIPMENT INSTALLATION, Fuselage station 49 1/2 to 168 RH side (see Figure 58 for next assembly)	NP	594-843
-19	174-71064-7	. . PANEL ASSEMBLY, Radio compass control (altered from GFAE C403A/A panel assembly) (supersedes 169-71064-7 which may be used interchangeably until stock is exhausted)	2	269-843
-20	157-71041	. . . ADAPTER ASSY, AN/ARN6 radio compass control panel	2	269-843
-21	PF3 1-2 -38	. . . . FASTENER (Dzus Fastener)	3	269-843
-22	PF3 1-2	. . . . SPRING (Dzus Fastener)	3	269-843
-23	PF3 1-2	. . . . CUP (Dzus Fastener)	3	269-843
-24	4974Y0E36	. . TUNING SHAFT (S. S. White Co) (supersedes F.W. Stewart LA1564-36 which may be used interchangeably until stock is exhausted)	1	269-843
-25	4974Y0E39	. . TUNING SHAFT (S. S. White Co) (supersedes F.W. Stewart LA1564-39 which may be used interchangeably until stock is exhausted)	1	269-843
-26	4974Y0E134	. . TUNING SHAFT (S. S. White Co) (supersedes F.W. Stewart LA1564-134 which may be used interchangeably until stock is exhausted)	1	269-843
-27	MR13B	. . COUPLING (Bendix Radio - GFAE No. MC203A may be used)	1	269-843
-28	AN3106-14S2S	. . PLUG (ID90/ARN)	2	269-593
	AN3057-6A	. . ADAPTER	2	269-593
	AN3106M22-14S	. . PLUG (ID250/ARN)	2	594-843
-29	10-71628-12S	. . PLUG (ID249/ARN) (Bendix	2	594-843
-30	AN3157-4	. . LIGHT ASSEMBLY, Press to test indicator (ARN14)	2	269-843
	AN3121-313	. . LAMP	2	269-843
-31	ID90/ARN	COMPASS INDICATOR (see Figure 100)	Ref	
	ID250/ARN	COMPASS INDICATOR (see Figure 100)	Ref	
-32	151-71023-10	CORD ASSEMBLY, Radio compass sense (see Figure 70)	Ref	

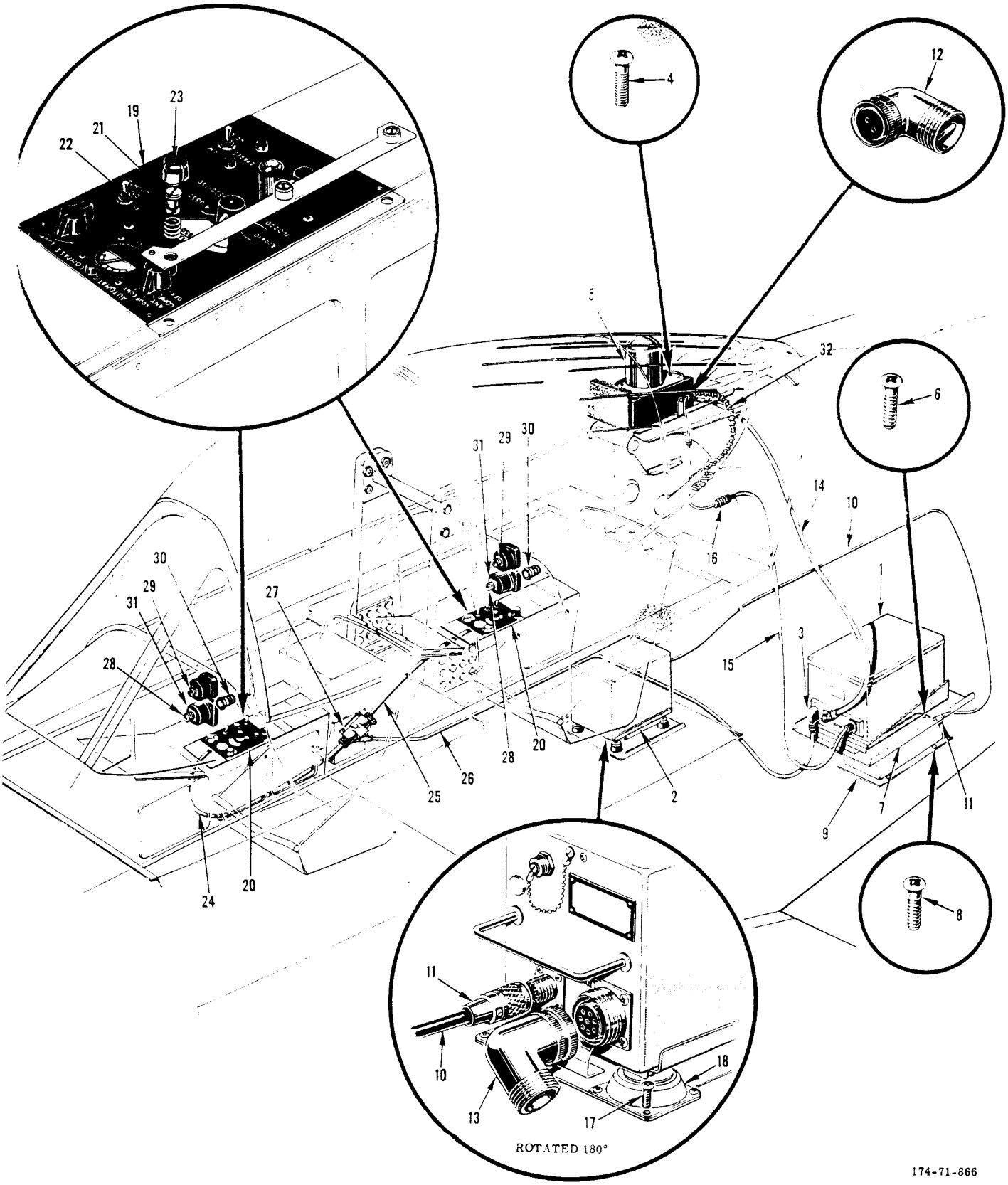


FIGURE 177A - AN/ARN6 RADIO COMPASS AND MARKER BEACON EQUIPMENT

AN 01-60FGA-4

FUSELAGE RADIO (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
1-7A		AN/ARNG RADIO COMPASS AND MARKER BEACON EQUIPMENT		
	17-71301	. RADIO SYSTEM EQUIPMENT INSTALLATION, Complete (see figure. . 1 for next assembly)	NP	844-
-1	R101A/ARN6	. . RECEIVER, Radio compass (JFAE).	1	844-
-2	R128/ARN12	. . RECEIVER, Marker beacon (JFAE).	1	844-
-3	3373X	. . ADAPTER, 45° (S. S. White Dental) (MC136 or MC136A may. . be substituted)	1	844-
	17-71131	. RADIO EQUIPMENT INSTALLATION, Fus sta 168 to 238 (see. . . . figure 33 for next assembly)	NP	844-
-4	AN515-8R8	. . SCREW	6	844-
-5	MS112E/ARN6	. . LOOP ANTENNA (JFAE) (MC136A/ARN6 may be substituted). . .	1	844-
-6	AN515-8R10	. . SCREW	8	844-
-7	MT273E/ARN6	. . MOUNTING (JFAE) (MT273D/ARN6 or MT273E/ARN6 may be. . . . substituted)	1	844-
-8	AN525-10R8	. . SCREW	6	844-
-9	[illegible]/ARN	. . ANTENNA, Marker beacon (JFAE)	1	844-
-10	17-71071	. . CABLE ASSY, AN/ARN12 Radio antenna.	1	844-
-11	17-71073-1	. . . CABLE (RG8A/U co-axial)(36 1/2 in).	1	844-
-12	PL259A	. . . PLUG (American Phenolic).	2	844-
-13	AN7108-10S1S	. . PLUG (Lid antenna)	1	844-
	AN6287-1A	. . ADAPTER	1	844-
-14	AN3108-14-6S	. . PLUG (ARN12 receiver)	1	844-
	AN6287-1A	. . ADAPTER	1	844-
-15	C111B/ARN6	. . LOOP CORD (Bendix Radio).	1	844-
-16	C14B/ARN6	. . CORD, Cable antenna (Fairchild Camera and Instrument) . .	1	844-
-17	C822A/U	. . ADAPTER, (American Phenolic).	1	844-
	17-71131	. RADIO EQUIPMENT INSTL, Fus sta 168 (see fig. 31 for next assy)	NP	844-
-17	AN515-8R8	. . SCREW	6	844-
-18	MT273/ARN12	. . MOUNTING (JFAE)	1	844-
	17-71091	. RADIO EQUIP INSTL, Fus sta 168 1/2-188 RH side (see . . . . figure 34 for next assembly)	1	844-
-19	17-71064-13	. . PANEL ASSY, Radio compass control (altered from JFAE . . J-13A/A panel assembly)	2	844-
-20	157-71041	. . . ADAPTER ASSY, Radio compass control panel	2	844-
-21	PF3 1-2 -33	. . . . FASTENER (Dzus Fastener)	3	844-
-22	PS3 1-2	. . . . SPRING (Dzus Fastener)	3	844-
-23	PC3 1-2	. . . . CUP (Dzus Fastener)	3	844-
-24	-974YOE36	. . TUNING SHAFT (S.S. White Co)(supersedes F.W. Stewart . . LA1533C36 which may be used interchangeably until stock is exhausted)	1	844-
-25	-974YOE39	. . TUNING SHAFT (S.S. White Co)(supersedes F.W. Stewart . . LA1533C39 which may be used interchangeably until stock is exhausted)	1	844-
-26	-974YOE134	. . TUNING SHAFT (S.S. White Co)(supersedes F.W. Stewart . . LA1533C134 which may be used interchangeably until stock is exhausted)	1	844-
-27	MR13B	. . COUPLING (Bendix Radio)	1	844-
-28	AN3106M22-14S	. . PLUG (ID250/ARN)	2	844-
-29	10-71628-12S	. . PLUG (ID249/ARN) (Bendix Radio)	2	844-
-30	AN3157-4	. . LIGHT ASSY, Press to test indicator	2	844-
	AN3121-313	. . LAMP	2	844-
-31	ID250/ARN	COMPASS INDICATOR (see figure 100)	Ref	
-32	151-71023-10	CORD ASSY, Radio compass sense (see figure 70)	Ref	

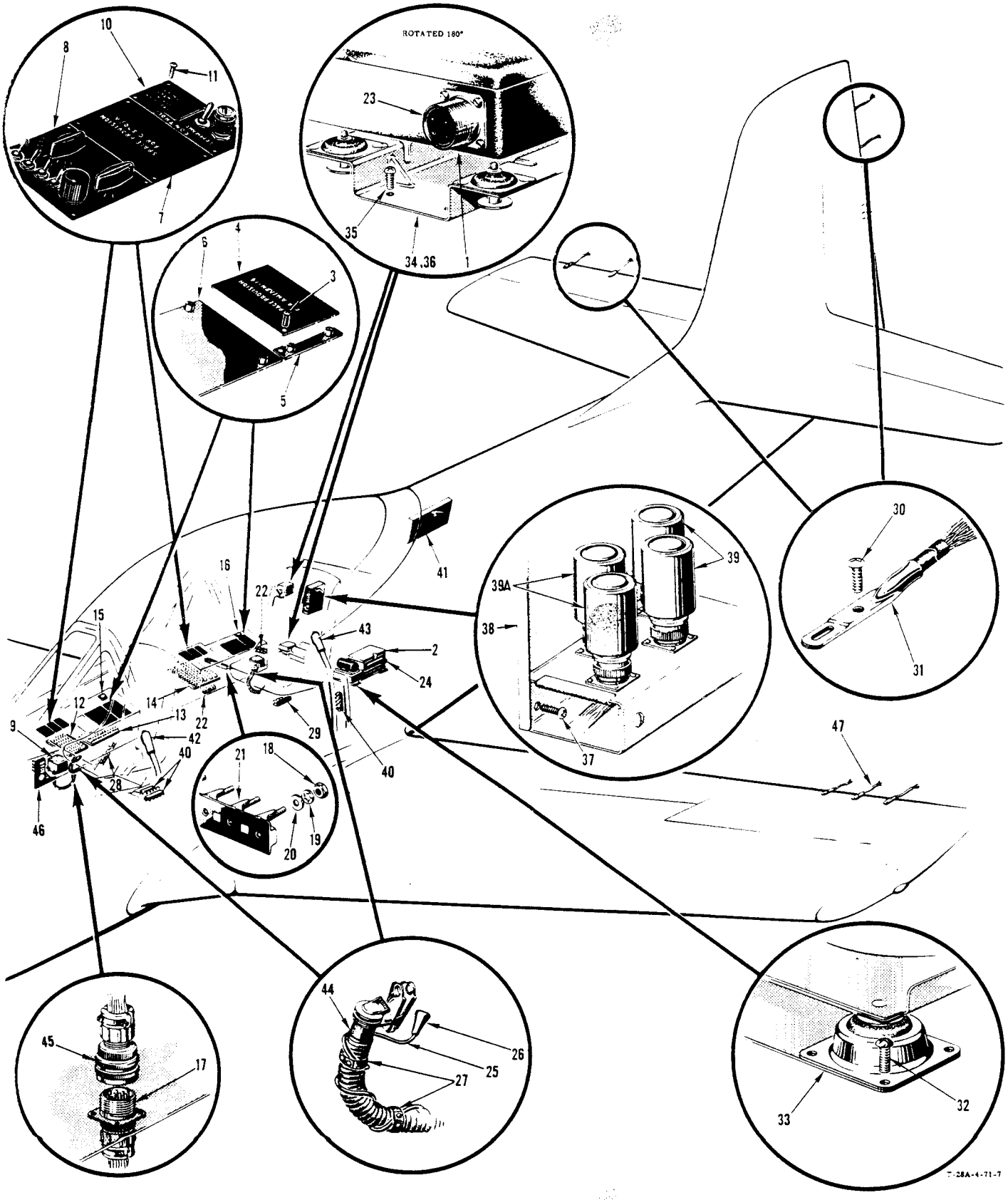


FIGURE 178 - MISCELLANEOUS RADIO EQUIPMENT

FUSELAGE RADIO (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
178			MISCELLANEOUS RADIO EQUIPMENT		
	159-71001		. RADIO SYSTEM EQUIP., Complete (see fig. 1 for next assy) . .	NP	4-268
-1	AM142/AIC		. . MIXER AMPLIFIER, (GFAE)	2	4-268
-2	AM26A/AIC		. . INTERPHONE AMPLIFIER, (GFAE) (GFAE AM26/AIC may be sub) .	1	4-268
	159-71031		. RADIO EQUIPMENT INSTL, Fuselage station +9 1/2 to 168 . . . . RH side (see figure 58 for next assembly)	NP	4-60
	159-71091		. RADIO EQUIPMENT INSTL, Fuselage station 49 1/2 to 168 . . . . RH side (see figure 58 for next assembly)	NP	81-268
	No Number		. . FUSELAGE RIGHT SIDE CONSOLE RADIO PANELS, ... (see figure 184 for detail breakdown)	NP	81-268
-3	AN515-8R7		. . SCREW	32	4-60
-4	159-71086	*3	. . PANEL, Radio console closeout	2	4-60
	159-71039	*2	. . PANEL ASSY, Radio console closeout (rear cockpit)	1	4-60
	159-71164	*2	. . PANEL ASSY, Radio console closeout (front cockpit)	1	4-60
-5	159-71059	*3	. . ADAPTER ASSEMBLY, Control panel	4	4-60
-6	159-71039		. . PANEL ASSEMBLY, Radio console closeout	2	4-60
-7	159-71083		. . PANEL, Radio console closeout	2	4-60
-8	7033/AIC		. . CONTROL PANEL, (GFAE)	2	4-60
-9	F21/ARA9		. . FILTER, (GFAE)	2	4-268
-10	159-71087-5	*2	. . PANEL ASSY, Radio transfer cont (see fig.183 for breakdown)	2	4-60
	159-71163	*2	. . PANEL ASSY, Radio transfer cont (see fig.183 for breakdown)	2	4-60
-11	AN515-8R8		. . SCREW	12	4-60
-12	159-71032		. . PANEL ASSEMBLY, Pilot's radio control interconnector . . . (see figure 184 for detail breakdown)	1	4-60
-13	159-71034		. . PANEL ASSEMBLY, Pilot's radio control interconnector . . . (see figure 184 for detail breakdown)	1	4-60
-14	159-71041		. . PANEL ASSEMBLY, Co-pilot's radio control interconnector . (see figure 184 for detail breakdown)	1	4-60
-15	159-71068-10		. . JACK ASSEMBLY, Radio hand microphone mounting	1	4-268
	JK33A		. . . JACK, (GFAE	1	4-268
	A23527		. . . COVER, (for JK33A (Drename, Inc)	1	4-268
-16	159-71068-20		. . JACK ASSEMBLY, Radio hand microphone mounting	1	4-268
	JK33A		. . . JACK, (GFAE	1	4-268
	A23527		. . . COVER, (for JK33A (Drename, Inc	1	4-268
-17	AN3106-18-1P		. . RECEPTACLE	1	4-268
	AN3057-10A		. . ADAPTER	1	4-268
-18	AN340-6		. . NUT	18	4-60
-19	AN936A6		. . WASHER	18	4-60
-20	AN960-6		. . WASHER	18	4-60
-21	NAS45-6-10		. . PANEL ASSEMBLY, Electrical connector	1	4-60
-22	NAS45-6-4		. . PANEL ASSEMBLY, Electrical connector	2	4-60
-23	AN3106-14S2S		. . PLUG, (GFAE)	2	4-268
	AN3057-6A		. . ADAPTER, (GFAE)	2	4-268
-24	PL152A		. . PLUG, (GFAE)	1	4-268
	159-71331		. RADIO EQUIP. INSTL, Fus fwd (see fig. 51 for next assy) . . .	NP	4-268
-25	WRF/U		. . CORDAGE, (68 in. fwd)(72 1/2 in. aft) (U. S. Rubber) . . .	2	4-268
-26	C61/U		. . CONNECTOR, (Molded Insulation)	2	4-268
-27	123-71063		. . STRAP ASSEMBLY, Microphone and headset cord	10	4-268
-28	NAS45-6-14		. . PANEL ASSEMBLY, Electrical connector	1	4-268
-29	NAS45-6-8		. . PANEL ASSEMBLY, Electrical connector	1	4-268
	AN340-6		. . NUT	22	4-268
	AN936A6		. . WASHER	22	4-268
	AN960-6		. . WASHER	22	4-268
	159-71123		. RADIO EQUIP. INSTL, Fus aft (see fig. 55 for next assembly) .	NP	4-268
-30	AN526-632R9		. . SCREW	12	4-268
-31	AN/ASA3		. . STATIC DISCHARGER, (GFAE)	6	4-268
	159-71431		. RADIO EQUIP. INSTL, Fus sta 168 (see fig.51 for next assy) .	NP	4-268
-32	AN515-8R8		. . SCREW	12	4-268
-33	MT28/ARN5		. . MOUNTING, (GFAE)	1	4-268
-34	MT556/AIC		. . MOUNTING PLATE, (GFAE)	1	4-268
	159-71131		. RADIO EQUIP. INSTL, Fus sta 168 to 238 (see fig.83 for next assy)	NP	4-268
-35	AN515-8R8		. . SCREW	4	4-268
-36	MT556/AIC		. . MOUNTING PLATE, (GFAE)	1	4-268
-37	AN515-8R7		. . SCREW	4	4-268
-38	159-71045-5	*1	. . PANEL ASSY, Radio master junction (see figure 183)	1	4-268
-39	8910-3		. . RELAY, Hermetically sealed 4 PDT (Electro-Switch)(AF dwg 49B6902)(Price Elec 5724-15HPX may be sub)	2	4-268
-39A	AN3303-1	*2	. . RELAY	2	4-268
	159-71231		. RADIO EQUIPMENT INSTL, Fuselage station 49 1/2 to 168 LH . . side (see figure 62 for next assembly)	NP	4-268
-40	NAS45-6-8		. . PANEL ASSEMBLY, Electrical connector	3	4-268
	AN340-6		. . NUT	24	4-268
	AN936A6		. . WASHER	24	4-268
	AN960-6		. . WASHER	24	4-268
-41	159-71214	*2	. . PANEL ASSY, Radio master jct complete (see fig. 183A) . .	1	4-268
-42	159-43016		LEVER ASSEMBLY, Engine control front quadrant throttle . . . . . (interphone switch) (see figure 232)	Ref	
-43	159-43116		LEVER ASSEMBLY, Engine control rear quadrant throttle . . . . . (interphone switch) (see figure 235)	Ref	
-44	AN6003-4A		TUBE ASSEMBLY, Oxygen mask to regulator (see figure 186)	Ref	
-45	AN3106-18-1S		PLUG, (see figure 146)	Ref	
-46	159-54050		PANEL ASSEMBLY, Electrical circuit breaker (see figure 146) . .	Ref	
-47	AN/ASA3		STATIC DISCHARGER, (GFAE) (see figure 3)	Ref	

*1 Rework in accordance with T. O. 1T-28-50.
*2 Used on aircraft modified in accordance with T. O. 1T-28-50.
*3 Parts marked thus not used on aircraft modified in accordance with T. O. 1T-28-50.

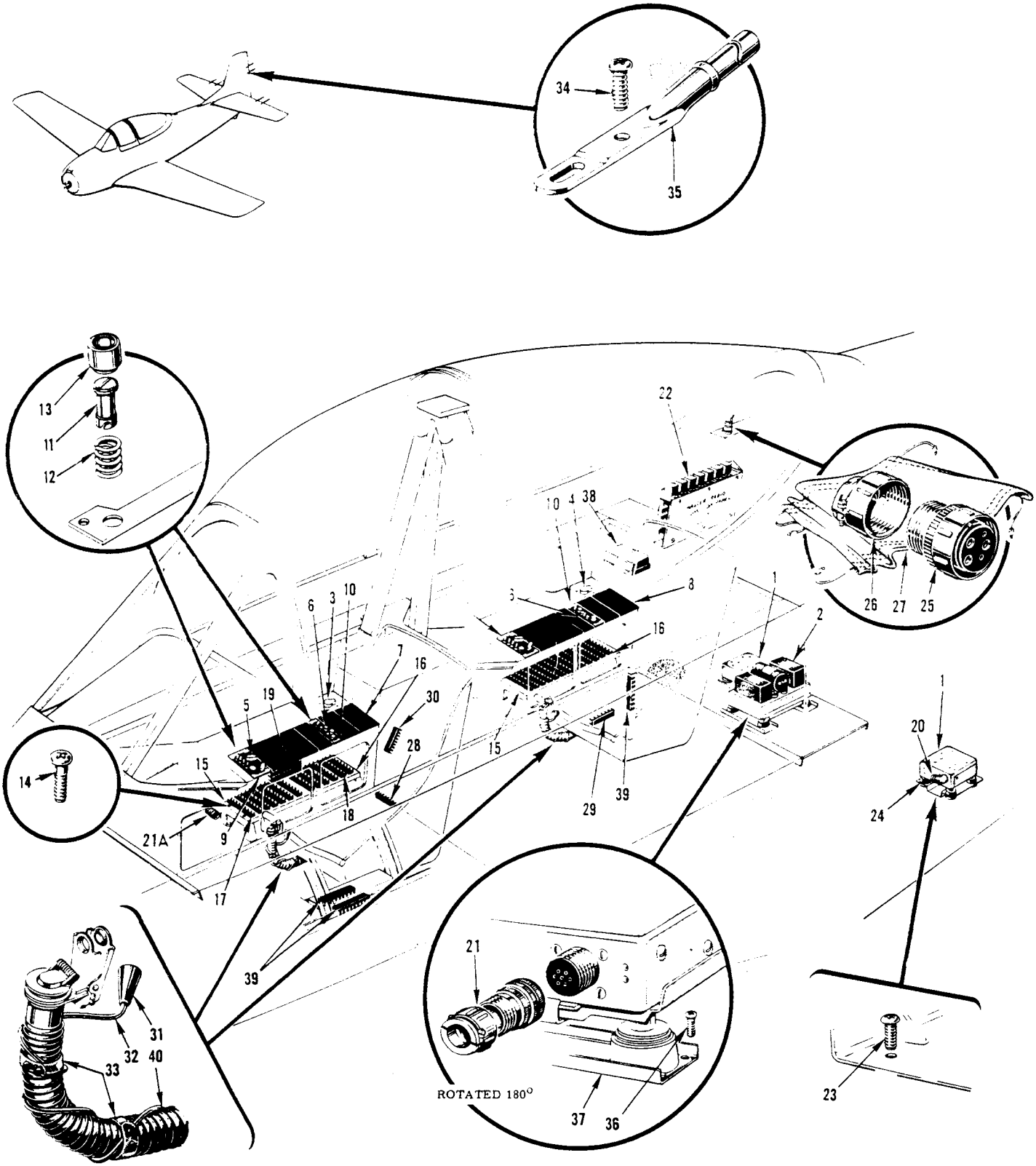


FIGURE 179 - MISCELLANEOUS RADIO EQUIPMENT

T-28A-4-71-6

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
179			MISCELLANEOUS RADIO EQUIPMENT		
	171-71001		. RADIO SYS EQUIP. INSTL, Complete (see fig. 1 for next assy) .	NP	269-[illegible]
-1	AM142/AIC		. . MIXER AMPLIFIER, (GFAE)	2	269-[illegible]
-2	AM300/AIC		. . AMPLIFIER, (GFAE)	1	269-[illegible]
	171-71031		. RADIO EQUIPMENT INSTALLATION, Fuselage sta 49 1/2 to 168 . .	NP	269-[illegible]
			RH side (see figure 58 for next assembly)		
-3	159-71068-10		. . JACK ASSEMBLY, Radio hand microphone mounting	1	269-[illegible]
-4	159-71068-20		. . JACK ASSEMBLY, Radio hand microphone mounting	1	269-[illegible]
	70033		. . . JACK, Radio hand microphone mounting (Mallory)	1	269-[illegible]
	AC2827		. . . COVER, (Com 70033) (Croname, Inc)	1	269-[illegible]
-5	3048/AIC		. . PANEL ASSEMBLY, Interphone control (GFAE) (35OD2556) . . .	2	269-[illegible]
-6	159-71086-5		. . PANEL, Radio console closeout	2	269-[illegible]
-7	159-71093		. . PANEL ASSEMBLY, Radio forward console closeout	1	269-[illegible]
-8	159-71094		. . PANEL ASSEMBLY, Radio aft console closeout	1	269-[illegible]
-9	159-71088		. . ADAPTER ASSEMBLY, Radio interphone control panel	4	269-[illegible]
-10	159-71089		. . ADAPTER ASSEMBLY, Radio marker beacon control panel . . .	4	269-[illegible]
-11	BB1 1/2 -3S		. . . FASTENER, (Dzus Fastener)	2	269-[illegible]
-12	B01 1/2		. . . SPRING, (Dzus Fastener)	2	269-[illegible]
-13	B01 1/2		. . . CUP, (Dzus Fastener)	2	269-[illegible]
-14	AN515-8R8		. . SCREW	16	269-[illegible]
-15	159-71096		. . PANEL ASSEMBLY, Radio console front terminal	2	269-[illegible]
-16	159-71097		. . PANEL ASSEMBLY, Radio console rear terminal	2	269-[illegible]
-17	MAS345-6-5		. . . PANEL ASSEMBLY, Electrical connector (front panel) . .	5	269-[illegible]
-18	MAS345-6-9		. . . PANEL ASSEMBLY, Electrical connector (rear panel) . . .	5	269-[illegible]
	AN340-6		. . . NUT	108	269-[illegible]
	AN936A6		. . . WASHER	108	269-[illegible]
	AN960-6		. . . WASHER	108	269-[illegible]
	171-71019-5	*1	. . . RESISTOR ASSY, AN/ARN14 radio (front panel)	1	269-[illegible]
	RC41AE470K	*1	. . . . RESISTOR, 47 ohms (R.V. Weatherford Co)	1	269-[illegible]
	171-71019-9	*1	. . . RESISTOR ASSY, AN/ARN14 radio (front panel)	1	269-[illegible]
	RC41AE470K	*1	. . . . RESISTOR, 47 ohms (R.V. Weatherford Co)	1	269-[illegible]
	171-71046		. . PANEL ASSEMBLY, Radio console lower terminal	2	269-[illegible]
-19	MAS345-6-10		. . . PANEL ASSEMBLY, Electrical connector	20	269-[illegible]
	AN340-6		. . . NUT	20	269-[illegible]
	AN936A6		. . . WASHER	20	269-[illegible]
	AN960-6		. . . WASHER	20	269-[illegible]
	171-71019-5	*1	. . . RESISTOR ASSY, AN/ARN14 radio	2	269-[illegible]
	RC41AE470K	*1	. . . . RESISTOR, 47 ohm (R.V. Weatherford Co)	2	269-[illegible]
-20	AN3108-14S2S		. . PLUG, (mixer amplifier)	2	269-[illegible]
	AN3057-6A		. . ADAPTER	2	269-[illegible]
-21	AN3106-16S1S		. . PLUG, (interphone amplifier)	1	269-[illegible]
	AN3057-6A		. . ADAPTER	1	269-[illegible]
-21A	AN3101-18-8P		. . RECEPTACLE, (radio power)	1	269-[illegible]
	AN3057-10A		. . ADAPTER	1	269-[illegible]
	171-71131		. RADIO EQUIP. INSTL, Fus sta 168 to 236 (see fig.83 for next assy)	NP	269-[illegible]
-22	No Number		. RADIO MASTER JUNCTION PANEL ASSEMBLY AND RELAYS, ...	NP	269-[illegible]
			(see figure 183B for detail breakdown)		
-23	AN515-8R8		. . SCREW	8	269-[illegible]
-24	MT556/AIC		. . MOUNTING, (GFAE) (MT556A/AIC may be substituted)	2	269-[illegible]
-25	AN3106-14S5P		. . PLUG, (Gyrosyn junction box)	1	269-[illegible]
-26	AN3057-6A		. . ADAPTER	1	269-[illegible]
-27	144-54071		. . COVER ASSEMBLY, Electrical connector plug	1	269-[illegible]
	159-71331		. RADIO EQUIPMENT INSTL, Fus fwd (see fig. 51 for next assy) .	NP	269-[illegible]
-28	AN3436-2-7		. . TERMINAL BLOCK ASSEMBLY	7	269-[illegible]
	AN341-6		. . NUT	7	269-[illegible]
	AN936A6B		. . WASHER	7	269-[illegible]
	AN961-6		. . WASHER	1	269-[illegible]
-29	NAS45-6-8		. . PANEL ASSEMBLY, Electrical connector	1	269-[illegible]
-30	NAS45-6-14		. . PANEL ASSEMBLY, Electrical connector	1	269-[illegible]
	AN340-6		. . NUT	22	269-[illegible]
	AN936A6		. . WASHER	22	269-[illegible]
	AN960-6		. . WASHER	22	269-[illegible]
-31	W61/U		. . CONNECTOR, (Molded Insulation)	2	269-[illegible]
-32	WF5/U		. . CORDAGE, (68 in. fwd) (72 1/2 in. aft) (U. S. RUBBER) . .	2	269-[illegible]
-33	123-71063		. . STRAP ASSEMBLY, Microphone and headset cord	10	269-[illegible]
	159-71123		. RADIO EQUIP. INSTL, Fus aft (see figure 55 for next assy) . .	NP	269-[illegible]
-34	AN526-632R9		. . SCREW	12	269-[illegible]
-35	5019		. . STATIC DISCHARGER, (AN/ASA3) (Forest Elec Mfg Co)	6	269-[illegible]
	171-71431		. RADIO EQUIP. INSTL, Fus sta 168 (see fig. 51 for next assy) .	NP	269-[illegible]
-36	AN515-6R8		. . SCREW	8	269-[illegible]
-37	MT577/AIC		. . MOUNTING, (GFAE)	1	269-[illegible]
-38	F21/ARA9		. . FILTER, (GFAE)	2	269-[illegible]
	159-71231		. RADIO EQUIP. INSTL, Fus sta 49 1/2 to 168 LH side (see . . .	NP	269-[illegible]
			figure 62 for next assembly)		
-39	NAS45-6-8		. . PANEL ASSEMBLY, Electrical connector	3	269-[illegible]
	AN340-6		. . NUT	24	269-[illegible]
	AN936A6		. . WASHER	24	269-[illegible]
	AN960-6		. . WASHER	24	269-[illegible]
-40	AN6003-4A		TUBE ASSEMBLY, (see figure 186)	Ref	

*1 Refer to T. O. 1T-28-50.

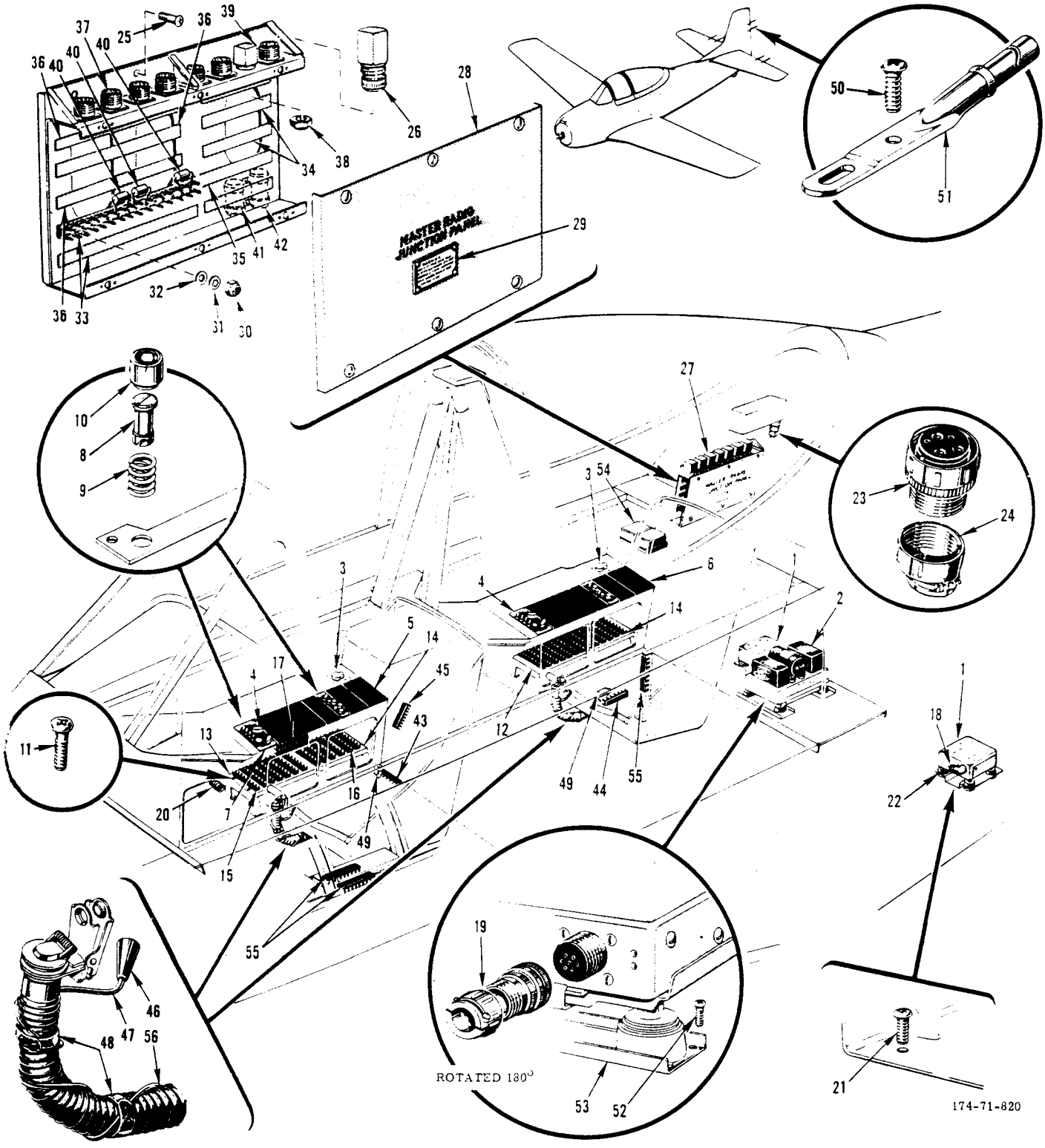


FIGURE 180 - MISCELLANEOUS RADIO EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
180			MISCELLANEOUS RADIO EQUIPMENT		
	171-71001	.	RADIO SYSTEM EQUIP ASSEM, Complete (See Fig. 1 for next assy)	MF	594-843
-1	AM1-2/ARC	. .	MIXER AMPLIFIER (JFAE)	1	594-843
-2	AM300/ARC	. .	AMPLIFIER (JFAE)	1	594-843
	171-71001	.	RADIO EQUIPMENT INSTALLATION, (Note: Use 1 1/2 to 165 RH side, see Fig. 1 for next assembly)	MF	594-843
-3	159-71008-21	. .	JACK ASSEMBLY, Radio (Part: Maintenance mounting	1	594-843
	J3033	. . .	JACK, Radio (Part: Maintenance mounting (Mallory)	1	594-843
	A28527	. . .	COVER (For J3033) (Jennings Ind.	1	594-843

FIGURE & INDEX NUMBER	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
180--	[illegible]			.	.				PANEL ASSEMBLY, Interphone control (GFAE) (S50D2556).	2	594-6[illegible]
--	[illegible]			.	.				PANEL ASSEMBLY, Radio forward console closeout.	1	594-6[illegible]
--	[illegible]			.	.				PANEL ASSEMBLY, Radio aft console closeout.	1	594-6[illegible]
--	[illegible]			.	.				ADAPTER ASSEMBLY, Radio interphone control panel.	1	594-6[illegible]
--	[illegible]			.	.	.			FASTENER (Dzus Fastener)	2	594-6[illegible]
--	[illegible]			.	.	.			SPRING (Dzus Fastener)	2	594-6[illegible]
--	[illegible]			.	.	.			NUT (Dzus Fastener).	2	594-6[illegible]
--	[illegible]			.	.				SCREW	16	594-6[illegible]
--	[illegible]			.	.				PANEL ASSEMBLY, Radio console front terminal.	1	594-6[illegible]
--	[illegible]			.	.				PANEL ASSEMBLY, Radio console front terminal.	1	594-6[illegible]
--	[illegible]			.	.				PANEL ASSEMBLY, Radio console rear terminal	1	594-6[illegible]
--	[illegible]			.	.	.			PANEL ASSEMBLY, Electrical connector (front panel)	1	594-6[illegible]
--	[illegible]			.	.	.			PANEL ASSEMBLY, Electrical connector (rear panel).	1	594-6[illegible]
	[illegible]			.	.	.			NUT (#8 in. Used on 159-71027).	0000	594-6[illegible]
	[illegible]			.	.	.			WASHER (#8 in. Used on 159-71027)	0000	594-6[illegible]
	[illegible]			.	.	.			WASHER (#8 in. Used on 159-71027)	0000	594-6[illegible]
	[illegible]			.	.	.			RESISTOR (1/4W, AN/ARN14 radio (Used on 159-71026-10)	1	594-6[illegible]
	[illegible]			.	.	.			RESISTOR (1/4W, AN/ARN14 radio (Used on 159-71026-10)	1	594-6[illegible]
	[illegible]			.	.	.			RESISTOR (R.V. Weatherford)	1	594-6[illegible]
	[illegible]			.	.				PANEL ASSEMBLY, Radio console lower terminal.	1	594-6[illegible]
-17	[illegible]			.	.	.			PANEL ASSEMBLY, Electrical connector	1	594-6[illegible]
	[illegible]			.	.	.			NUT	[illegible]	594-6[illegible]
	[illegible]			.	.	.			WASHER	[illegible]	594-6[illegible]
	[illegible]			.	.	.			WASHER	[illegible]	594-6[illegible]
-18	AN3108-14S-2S			.	.				PLUG (mixer amplifier).	1	594-6[illegible]
	AN3057-8A			.	.				ADAPTER	1	594-6[illegible]
-19	AN3126-16S1S			.	.				PLUG (amplifier).	1	594-6[illegible]
	AN3057-8A			.	.				ADAPTER	1	594-6[illegible]
-20	AN3101-24-7P			.	.				RECEPTACLE (Radio tuner).	1	594-6[illegible]
	AN3057-16A			.	.				ADAPTER	1	594-6[illegible]
	171-71331			.	RADIO EQUIPMENT INSTALLATION, Fuselage station 168 to 295. see figure 51 for next assembly.					NP	594-6[illegible]
-21	MS20-10R8			.	.				SCREW	8	594-6[illegible]
-22	MT677/AIC			.	.				MOUNTING (GFAE) (MT677A/AIC may be substituted)	1	594-6[illegible]
-23	[illegible]-16S1P			.	.				PLUG (junction box)	1	594-6[illegible]
	AN3057-8A			.	.				ADAPTER	1	594-6[illegible]
-24	AN3101-10R8			.	.				SCREW	4	594-6[illegible]
-25	[illegible]			.	.				RELAY	1	594-6[illegible]
-26	[illegible]-1-20			.	.				PANEL ASSEMBLY, Radio master junction complete.	1	594-6[illegible]
-27	[illegible]-16-20			.	.	.			COVER ASSEMBLY, Radio master junction panel.	1	594-6[illegible]
	[illegible]			.	.	.	.		PEDAL, Junction box cover warning	1	594-6[illegible]
	[illegible]			.	.	.			NUT	1	594-6[illegible]
	AN936A6			.	.	.			WASHER	1	594-6[illegible]
	AN960-6			.	.	.			WASHER	1	594-6[illegible]
-28	MAS45-6-6-20			.	.	.			PANEL ASSEMBLY, Electrical connector	2	594-6[illegible]
-29	MAS45-6-6-10			.	.	.			PANEL ASSEMBLY, Electrical connector	1	594-6[illegible]
-30	MAS45-6-6-11			.	.	.			PANEL ASSEMBLY, Electrical connector	1	594-6[illegible]
-31	MAS45-6-6-18			.	.	.			PANEL ASSEMBLY, Electrical connector	1	594-6[illegible]
-32	AN3102M20-27S			.	.	.			RECEPTACLE	1	594-6[illegible]
-33	AN960-632			.	.	.			NUT	3	594-6[illegible]
-34	33819			.	.	.			RELAY (Omar Elec Co.) (supersedes Struthers Dunn No. 151XAX-C3 or Advance Elec Co. No. TC3D2-A3 which may be used interchangeably until stock is exhausted)	1	594-6[illegible]
-40	171-71019			.	.	.			RESISTOR ASSEMBLY, AN/ARN14 radio.	1	594-6[illegible]
	RC21AE102K			.	.	.	.		RESISTOR (R.V. Weatherford Co.)	1	594-6[illegible]
-41	S17377			.	.	.			CAPACITOR (Sprague Electric)	1	594-6[illegible]
-42	S17378			.	.	.			CAPACITOR (Sprague Electric)	1	594-6[illegible]
	159-71331			.	RADIO EQUIP INSTL, Fus fwd (see figure 51 for next assy)					NP	594-6[illegible]
-43	AN3436-2-7			.	.	TERMINAL BLOCK ASSEMBLY				1	594-6[illegible]
	AN341-6			.	.	NUT				7	594-6[illegible]
	AN936A6B			.	.	WASHER.				7	594-6[illegible]
	AN961-6			.	.	WASHER.				7	594-6[illegible]
-44	NAS45-6-8			.	.	PANEL ASSEMBLY, Electrical connector.				1	594-6[illegible]
-45	NAS45-6-14			.	.	PANEL ASSEMBLY, Electrical connector.				1	594-6[illegible]
	AN340-6			.	.	NUT				22	594-6[illegible]
	AN936A6			.	.	WASHER.				22	594-6[illegible]
	AN960-6			.	.	WASHER.				22	594-6[illegible]
-46	U61/U			.	.	CONNECTOR (Molded Insulation)				2	594-6[illegible]
-47	WF5/U			.	.	CORDAGE (68 in. fwd) (72 1/2 in. aft) (United States Rubber)				2	594-6[illegible]
-48	123-71063			.	.	STRAP ASSEMBLY, Microphone and headset cord				10	594-6[illegible]
-49	CF29A1DF103M			.	.	CAPACITOR (Sprague Electric).				2	594-6[illegible]
	159-71123			.	RADIO EQUIP INSTL, Fus aft (see fig. 55 for next assy)					NP	594-6[illegible]
-50	AN526-632R9			.	.	SCREW				12	594-6[illegible]
-51	5019			.	.	STATIC DISCHARGER (AN/ASA3) (Forest Elec. Mfg. Co.)				6	594-6[illegible]
	171-71431			.	RADIO EQUIP INSTL, Fus sta 168 (see fig. 51 for next assy)					NP	594-6[illegible]
-52	AN515-6R8			.	.	SCREW				3	594-6[illegible]
-53	MT677/AIC			.	.	MOUNTING (GFAE)				1	594-6[illegible]
-54	F21/ARA9			.	.	FILTER (GFAE)				2	594-6[illegible]
	159-71231			.	RADIC EQUIPMENT INSTALLATION, Fus sta 49 1/2 to 168 LH side. (see figure 62 for next assembly)					NP	594-6[illegible]
-55	NAS45-6-8			.	.	PANEL ASSEMBLY, Electrical connector.				3	594-6[illegible]
	AN340-6			.	.	NUT				24	594-6[illegible]
	AN936A6			.	.	WASHER.				24	594-6[illegible]
	AN960-6			.	.	WASHER.				24	594-6[illegible]
-56	AN6003-4A			.	TUBE ASSEMBLY (see figure 186).					Ref	

AN 01-[illegible]

FUSELAGE PANEL [illegible]

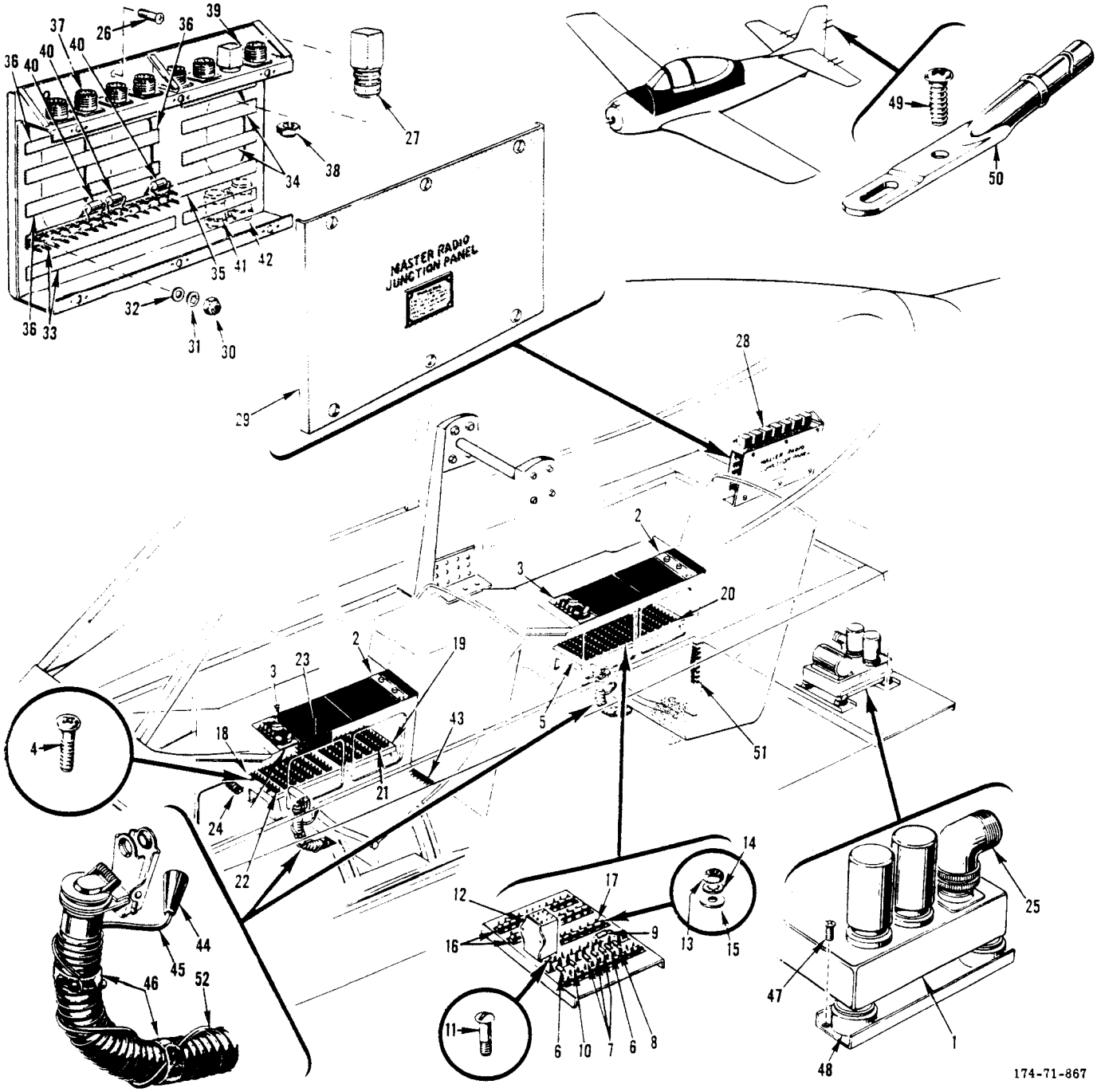


FIGURE 180A - MISCELLANEOUS RADIO EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
180A		MISCELLANEOUS RADIO EQUIPMENT		
	174-71001	. RADIO SYSTEM EQUIPMENT INSTALLATION, Complete see figure 1 for next assembly	NP	844-
-1	DY77/AIC1C	. . DYNAMOTOR (GFAE)	1	844-
	174-71091	. RADIO EQUIPMENT INSTALLATION, Fus sta -9 1/2 to 168 RH side see figure 58 for next assembly	NP	844-
-2	F9C/AIC	. . PANEL ASSEMBLY, Filter control (GFAE)	2	844-
	AN3106M18-1S	. . PLUG (filter control panel)	2	844-
-3	174-71033	. . PANEL ASSY, C524/AIC1C Radio interphone	2	844-
	AN3108M24-28S	. . PLUG (interphone control panel)	2	844-
	AN3108M22-1-3	. . PLUG (interphone control panel)	2	844-
-4	AN5158R8	. . SCREW	16	844-
-5	174-71058	. . PANEL ASSY, Aft radio console front terminal	1	844-
-6	174-71056-1C	. . . RESISTOR ASSEMBLY, Radio	2	844-
	RC20AE151K	. . . . RESISTOR	1	844-

FUSELAGE RADIO (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
180A-7	174-71056-20	. . . RESISTOR ASSEMBLY, Radio	3	844-
	RC20AE561K	. . . . RESISTOR	1	844-
-8	174-71056-30	. . . RESISTOR ASSY, Radio	1	844-
	RC20AE122K	. . . . RESISTOR	1	844-
-9	174-71056-40	. . . RESISTOR ASSY, Radio	1	844-
	RC20AE820K	. . . . RESISTOR	1	844-
-10	174-71056-50	. . . RESISTOR ASSY, Radio	1	844-
	RC20AE561K	. . . . RESISTOR	1	844-
-11	AN515-8R8	. . . SCREW	2	844-
-12	AN3311-1	. . . RELAY ASSEMBLY	1	844-
-13	AN341-6	. . . NUT	41	844-
-14	AN936A6B	. . . LOCKWASHER	41	844-
-15	AN961-6	. . . WASHER	41	844-
-16	AN3436-2-9	. . . TERMINAL BLOCK ASSEMBLY	4	844-
-17	AN3436-2-5	. . . TERMINAL BLOCK ASSEMBLY	1	844-
-18	159-71098-20	. . PANEL ASSY, Radio console front terminal	1	844-
-19	159-71097-10	. . PANEL ASSY, Radio console rear terminal	1	844-
-20	159-71097-20	. . PANEL ASSY, Radio console rear terminal	1	844-
-21	MAS45-6-9	. . . PANEL ASSY, Electrical connector (used on 159-71097-10. and 159-71097-20)	5	844-
-22	AN3436-2-9	. . . PANEL ASSY, Electrical connector (159-71098-20)	6	844-
	AN340-6	. . . NUT (used on 159-71097-10 and 159-71097-20)	45	844-
	AN341-6	. . . NUT (used on 159-71098-20)	54	844-
	AN936A6	. . . WASHER (used on 159-71097-10 and 159-71097-20)	45	844-
	AN936A6B	. . . WASHER (used on 159-71098-20)	54	844-
	AN960-6	. . . WASHER -5 (used on 159-71098-20)	54	844-
	171-71019-5	. . . RESISTOR ASSY, AN/ARN14 (used on 159-71098-20)	1	844-
	171-71019-9	. . . RESISTOR ASSY, AN/ARN14 Radio	1	844-
	RC41AE472K	. . . . RESISTOR	1	844-
	171-71046-10	. . PANEL ASSEMBLY, Radio console lower terminal	1	844-
-23	MAS45-6-10	. . . PANEL ASSEMBLY, Electrical connector.	1	844-
	AN340-6	. . . NUT	20	844-
	AN936A6	. . . LOCKWASHER	20	844-
	AN960-6	. . . WASHER	20	844-
-24	AN3101-24-7P	. . RECEPTACLE, radio power	1	844-
	AN3057-16A	. . ADAPTER	1	844-
-25	AN3106M16-10S	. . PLUG, interphone dynamotor	1	844-
	171-71191	. RADIO EQUIP. INSTL, Fus sta 168 to 238 (see Fig. 83 for next assembly	NP	844-
-26	AN520-10R8	. . SCREW	1	844-
-27	AN3303-1	. . RELAY	1	844-
-28	171-71021-20	. . PANEL ASSY, Radio master junction complete	1	844-
-29	171-71016-20	. . . COVER ASSY, Radio master junction panel	1	844-
-30	AN340-6	. . . NUT	145	844-
-31	AN936A6	. . . LOCKWASHER	145	844-
-32	AN960D6	. . . WASHER	145	844-
-33	MAS45-6-20	. . . PANEL ASSY, Electrical connector	2	844-
-34	MAS45-6-10	. . . PANEL ASSY, Electrical connector	4	844-
-35	MAS45-6-11	. . . PANEL ASSY, Electrical connector	1	844-
-36	MAS45-6-13	. . . PANEL ASSY, Electrical connector	3	844-
-37	AN3102M20-27S	. . . RECEPTACLE	7	844-
-38	AN365-632	. . . NUT	3	844-
-39	23519	. . . RELAY, DPST (Leach Electric) supersedes Struthers Dunn No. 181XAX33 or Advance Electric No. TC3D24A3 which may be used interchangeably until stock is exhausted	1	844-
-40	171-71019	. . . RESISTOR ASSY, AN/ARN14 Radio	3	844-
	RC21AE102K	. . . . RESISTOR	1	844-
--1	[illegible]	. . . CAPACITOR (Sprague Electric)	1	844-
--2	[illegible]	. . . CAPACITOR (Sprague Electric)	1	844-
	171-71331	. RADIO EQUIPMENT INSTALLATION, Fus sta 49 1/2 to 168 (see Figure 51 for next assembly)	NP	844-
-43	AN3436-2-7	. . TERMINAL BLOCK ASSEMBLY	1	844-
	AN341-6	. . NUT	7	844-
	AN936A6B	. . WASHER	7	844-
	AN961-6	. . WASHER	7	844-
	174-71055	. . CORD ASSY, Radio intercommunication	2	844-
-44	[illegible]	. . . JACK (RCA Victor	1	844-
-45	174-71055-3	. . . CORD (WFL- (C [illegible] 27 inches)	1	844-
-46	123-71063	. . STRAP ASSY, Microphone and headset cord	10	844-
	171-71-31	. RADIO EQUIP. INSTL, Fus sta 168 (see Fig. 51 for next assy)	NP	844-
-47	AN515-8R10	. . SCREW	4	844-
-48	MT1000/U	. . MOUNTING (DFAE)	1	844-
	159-71123	. RADIO EQUIP. INSTL, Fus sta (see Fig. 55 for next assy)	NP	844-
-49	AN520-832R9	. . SCREW	12	844-
-50	8019	. . STATIC DISCHARGER (AN/ASA3) (Forest Electric Mfg Co)	6	844-
-51	AN3436-2-3	. . TERMINAL BLOCK	1	844-
	AN341-6	. . NUT	4	844-
	AN936A6B	. . LOCKWASHER	4	844-
	AN961-6	. . WASHER	4	844-
-52	AN6003--A	TUBE ASSEMBLY (see Figure 186)	Ref	

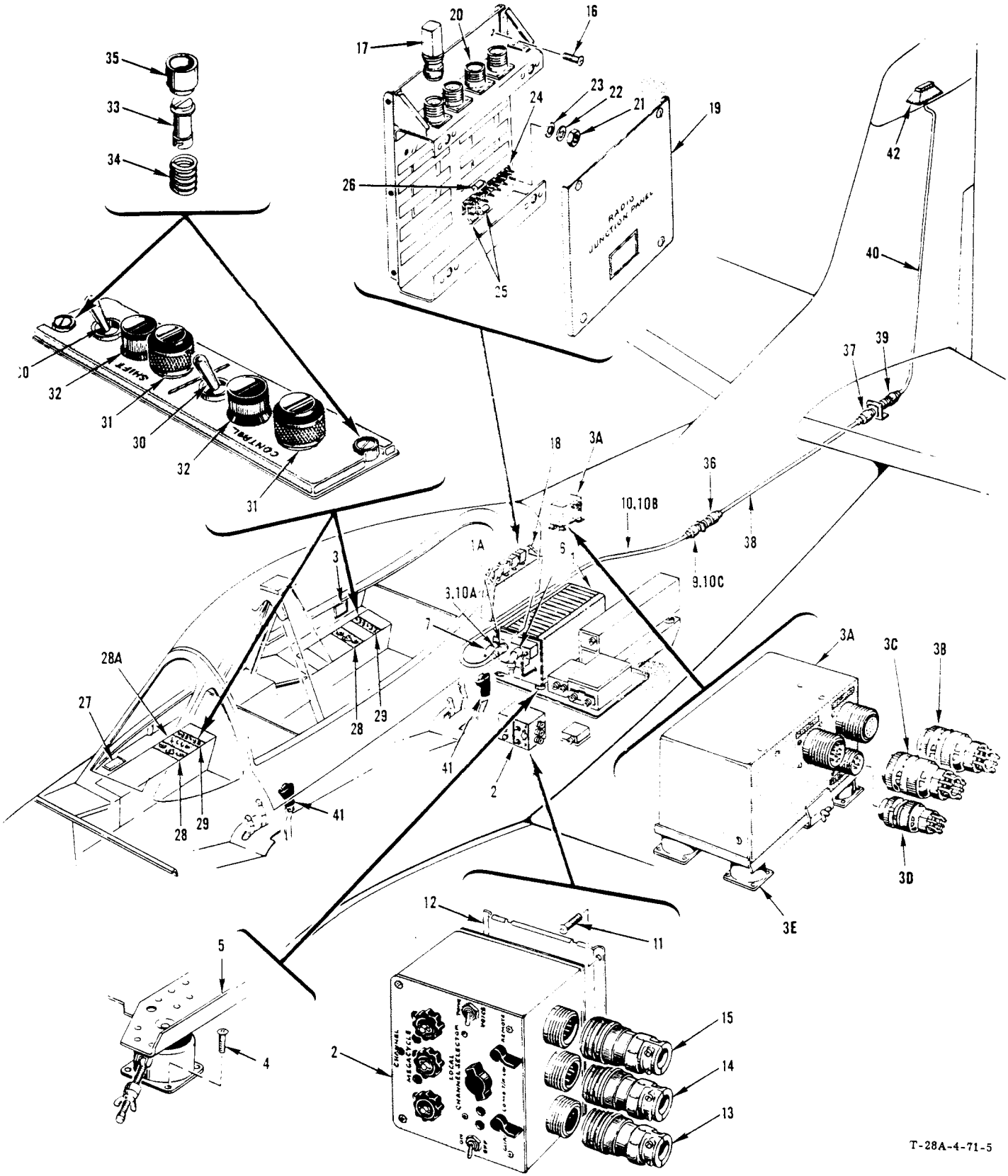


FIGURE 181 - AN/ARC27 RADIO EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
181			AN/ARC27 RADIO EQUIPMENT		
	171-71001	*1	. RADIO SYS EQUIP. INSTL, Complete (see fig. 1 for next assy) .	NP	4-843
-1	RT178/ARC27	*1	. . RECEIVER, Transmitter (GFAE) 550D2913)	1	4-843
-1A	UG27C/U		. . ADAPTER, Right angle (RT178/ARC27 antenna)	1	4-843

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
181-2	C626/ARC27	*1	. . PANEL ASSEMBLY, Radio control (GFAE)	1	4-843
	174-71061	*4	. . CONTROL PANEL, C626/ARC27 Radio (altered from GFAE C626/ARC27)	1	594-843
-3	1501-3		. . CARD, Frequency channel designation (North American) (supersedes 171-71172)	1	594-843
	1501-5	*2	. . GUARD, Frequency instruction card (North American) (supersedes 159-71054)	1	594-843
-3A	KY65/ARA26	*1,*3	. . KEYER, (GFAE)	1	4-843
-3B	AN3106M22-14P	*1,*3	. . RECEPTACLE, (emergency keyer)	1	4-843
-3C	AN3106M22-14S	*1,*3	. . RECEPTACLE, (emergency keyer)	1	4-843
-3D	AN3106M22-14S5S	*1,*3	. . RECEPTACLE, (emergency keyer)	1	4-843
-3E	MT736/U	*3	. . MOUNTING, (emergency keyer) (GFAE)	1	4-843
	174-71131		. RADIO EQUIPMENT INSTALLATION, Fus sta 168 to 238 (see figure 83 for next assembly)	NP	594-843
-4	AN525-10R10	*1	. . SCREW	3	4-843
-5	MT922/ARC27	*1	. . MOUNTING, (GFAE)	1	4-843
-6	AN3106M2--6S	*1,*4	. . PLUG	1	4-843
-7	AN3106M2--7S	*1,*4	. . PLUG	1	4-843
-8	MS3212/U		. . PLUG, (American Phenolic)	1	594-843
-9	MS3220/U		. . PLUG, (American Phenolic)	1	594-843
	174-71022		. . WIRING DIAGRAM, Rear section radio	NP	594-843
-10	RG8/U		. . . CABLE, Co-axial (96 1/2 inches) (American Phenolic)	1	594-843
	174-71040-4		. . CABLE ASSEMBLY, AN/ARC27 radio antenna	1	4-260
-10A	MS21D/U		. . . PLUG, RT178/ARC27 antenna	1	4-260
-10B	174-71040-4		. . CABLE, AN/ARC27 radio antenna (RG8A/U Co-axial +9 in.)	1	4-260
-10C	MS21D/U		. . . PLUG, RT178/ARC27 antenna	1	4-260
-11	AN515-8R8	*1,*4	. . SCREW	1	4-843
-12	MT821/ARC27	*1,*4	. . MOUNTING, (GFAE)	1	4-843
-13	AN3106M2--7S	*1,*4	. . PLUG, (control box)	1	4-843
-14	AN3106M24-20P	*1,*4	. . PLUG, (control box)	1	4-843
-15	AN3106M24-6P	*1,*4	. . PLUG, (control box)	1	4-843
-16	AN525-10R8	*1	. . SCREW	1	269-843
-17	AN3308-1	*1,*5	. . RELAY	1	269-843
-18	174-71014-	*4,*5	. . PANEL ASSY, Radio (junction complete	1	594-843
	174-71014-20	*1	. . PANEL ASSY, Radio (junction complete	1	269-843
-19	174-71016		. . . COVER ASSY, Radio (junction panel	1	594-843
	174-71016-20	*1	. . . COVER ASSY, Radio (junction panel	1	269-843
-20	AN3102M20-27S	*1	. . . RECEPTACLE	4	269-843
-21	AN341-6	*1	. . . NUT	4	269-843
-22	AN936A6B	*1	. . . WASHER	4	269-843
-23	AN961-6	*1	. . . WASHER	4	269-843
-24	AN3436-2-8	*1	. . . TERMINAL BLOCK ASSEMBLY	2	269-843
-25	171-71019-5		. . . RESISTOR ASSEMBLY, AN/ARN14 radio	2	594-843
	171-71019-11		. . . RESISTOR ASSEMBLY, AN/ARN14 radio	1	594-843
	RC41AE470K		. . . . RESISTOR, (R.C. Weatherford)	1	594-843
-26	171-71019-7		. . . RESISTOR ASSY, AN/ARN14 radio	1	594-843
	RW560101		. . . . RESISTOR, (R.C. Weatherford)	1	594-843
	174-71031	*1	. RADIO EQUIPMENT INSTL, Fus sta +4 1/2 to 168 RH side (see figure 83 for next assembly)	NP	4-843
-27	1501-3		. . CARD, Frequency channel designation (North American) (supersedes 171-71172)	1	594-843
	1501-5		. . GUARD, Frequency instruction card (North American) (supersedes 159-71054)	1	594-843
-28	C628/ARC27	*1,*4	. . COMMAND CONTROL PANEL, (GFAE)	2	4-843
	AN3106M22-14S	*1,*4	. . PLUG	2	4-843
-28A	C790/ARA26	*1,*3	. . CONTROL PANEL, Keyer (GFAE)	1	4-843
	5650B161	*2	. . CLOSEOUT PANEL, Emer Keyer (GFAE)	1	4-843
-29	171-71028		. . . PANEL ASSY, Transfer control edge lighted radio	2	594-843
-30	AN3021-3		. . . SWITCH	2	594-843
-31	AN3157-3		. . . LIGHT ASSY, Press to test indicator	2	594-843
	AN3121-313		. . . LAMP	2	594-843
-32	AN3572-2A		. . . LIGHT ASSY, Control panel plastic lighting plate	2	594-843
	327		. . . LAMP, T1 3/4 - bulb midget flange base (General Electric)	2	594-843
	171-71026		. . . PLATE ASSEMBLY, Radio transfer control	1	594-843
-33	PF3 1-2 -38		. . . . FASTENER (Dzus Fastener)	2	594-843
-34	PS3 1-2		. . . . SPRING (Dzus Fastener)	2	594-843
-35	PC3 1-2		. . . . CUP (Dzus Fastener)	2	594-843
	159-71123		. RADIO EQUIP. INSTL, Fus sta (see fig. 55 for next assembly)	NP	594-843
-36	MS21D/U		. . PLUG (Forward) (American Phenolic)	1	594-843
-37	MS220D/U		. . PLUG (Aft) (American Phenolic)	1	594-843
	171-71132		. . WIRING DIAGRAM, Radio UHF antenna cable Fus sta 238 7/8 to 339 1/8	NP	594-843
-38	RG8/U		. . . CABLE, Co-axial (105 inches) (American Phenolic)	1	594-843
	159-71023		. ANTENNA CABLE INSTALLATION, Radio UHF-VHF vertical stab. (see figure 44 for next assembly)	NP	594-843
-39	MS21D/U		. . PLUG (American Phenolic)	2	594-843
	171-71142		. . WIRING DIAGRAM, Radio UHF antenna cable vertical stab.	NP	594-843
-40	RG8/U		. . . CABLE, Co-axial (7+ inches) (American Phenolic)	1	594-843
-41	159-43116-5		LEVER ASSEMBLY, Engine control quadrant throttle microphone switch (see figure 28)	Ref	
-42	159-71021		PYRAMID ASSEMBLY, VHF-UHF radio antenna (see figure 44)	Ref	

*1 Parts marked thus used on aircraft modified in accordance with T.O. 1T-28-50.
*2 Parts marked thus used on aircraft modified in accordance with T.O. 1T-28A-537.
*3 Parts marked thus not used on aircraft modified in accordance with T.O. 1T-28A-537.
*4 Not used on airplanes modified per T.O. 1T-28A-538.
*5 See fig. 181B for modification per T.O. 1T-28A-538.

FUSELAGE RADIO Cont

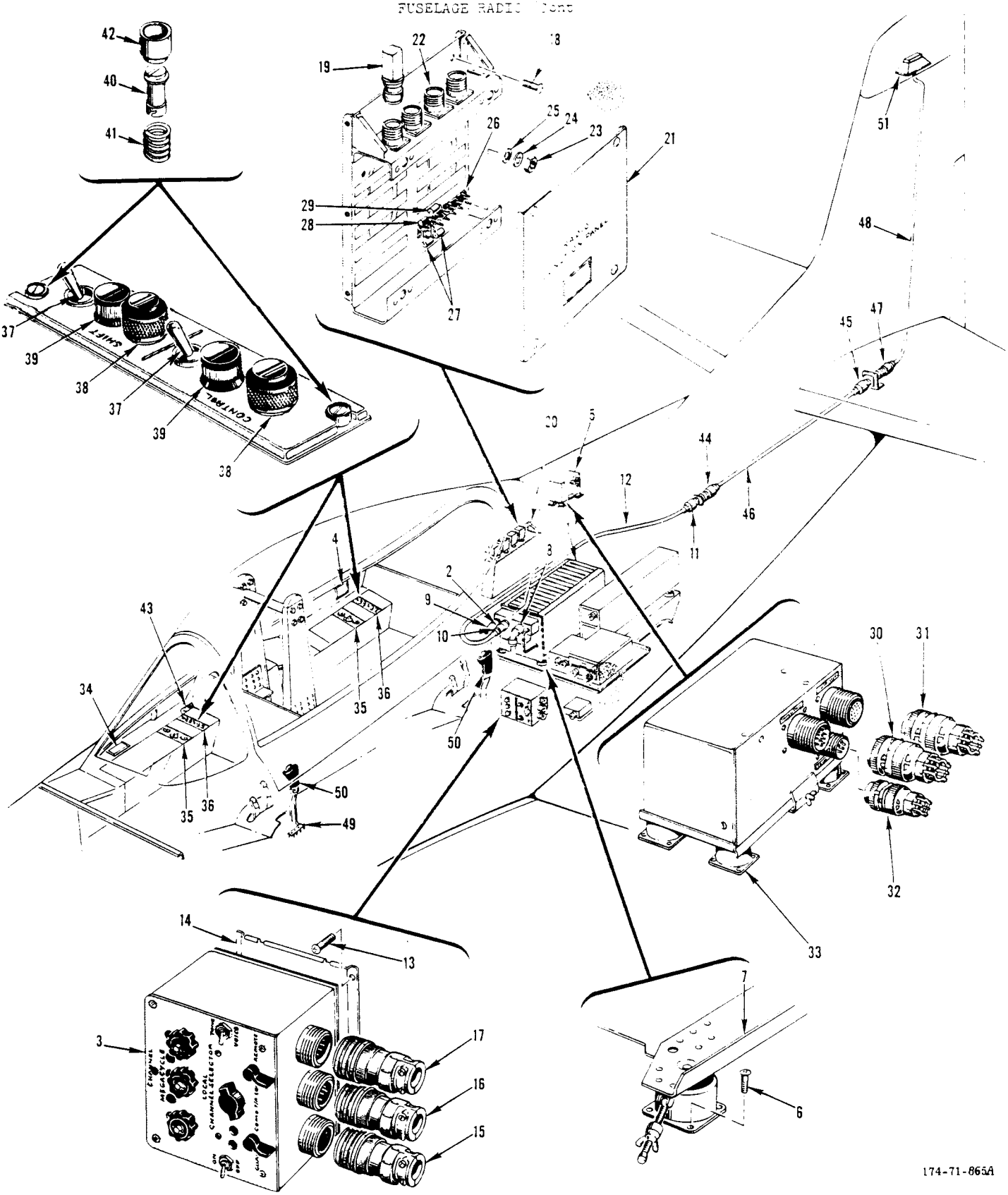


FIGURE 181A - AN/ARC27 RADIO EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
181A		AN/ARC27 RADIO EQUIPMENT		
	174-71001	. RADIO SYS EQUIP. INSTALL, Complete (see fig. 1 for next assy)	NP	844-
-1	RT178/ARC27	. . RECEIVER, Transmitter (CFAE)	1	844-
-2	UG27C/U	. . ADAPTER, Right angle (American Phenolic)	1	844-

FUSELAGE RADIO (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
181A-3	174-71061	*6	. . PANEL, C626/ARC27 Radio control	1	6AA-
-4	1501-3	*1	. . CARD, Frequency channel designation (North American)	1	6AA-
	1501-5	*2	. . GUARD, Frequency instruction card (North American)	1	6AA-
-5	KY65/ARA26	*5	. . KEYER (GFAE)	1	6AA-
	174-71191		. RADIO EQUIP INSTL, Fus sta 168 to 198 (see fig. 83 for next assembly)	NP	6AA-
-6	AN521-10R10		. . SCREW	8	6AA-
-7	MT522/ARC27		. . MOUNTING (GFAE)	1	6AA-
-8	AN3106M24-5S	*6	. . PLUG	1	6AA-
-9	AN3106M24-7S	*6	. . PLUG	1	6AA-
	174-71040-10		. . CABLE ASSY, AN/ARC27 Radio antenna	1	6AA-
-10	UG21D/U		. . . PLUG (American Phenolic)	1	6AA-
-11	UG22D/U		. . . PANEL JACK (American Phenolic)	1	6AA-
-12	174-71040-1		. . . CABLE, RG8A/U co-axial (52 inches)	1	6AA-
-13	AN521-8R8	*6	. . SCREW	3	6AA-
-14	MT521/ARC27	*6	. . MOUNTING (GFAE)	1	6AA-
-15	AN3106M24-7S	*6	. . PLUG	1	6AA-
-16	AN3106M24-20P	*6	. . PLUG	1	6AA-
-17	AN3106M24-5P	*6	. . PLUG	1	6AA-
-18	AN521-10R8		. . SCREW	4	6AA-
-19	AN3320-1	*7	. . RELAY	1	6AA-
-20	174-71014-10	*6,*7	. . PANEL ASSY, Radio master junction (complete)	1	6AA-
-21	174-71018-10		. . . COVER ASSY, Radio master junction panel	1	6AA-
-22	AN3112M20-27S		. . . RECEPTACLE	1	6AA-
-23	AN340-6		. . . NUT	30	6AA-
-24	AN936A6B		. . . WASHER	30	6AA-
-25	AN960-6		. . . WASHER	30	6AA-
-26	AN3418-2-8		. . . TERMINAL BLOCK ASSEMBLY	2	6AA-
-27	174-71019-5		. . . RESISTOR ASSY, AN/ARN14 Radio	2	6AA-
	RE41E5-70K		. . . . RESISTOR, 70 OHMS, 5W (P.T. Weatherford)	1	6AA-
-28	174-71019-7		. . . RESISTOR ASSY, AN/ARN14 Radio	1	6AA-
	RW69V101		. . . . RESISTOR, 100 OHMS, 10W (P.T. Weatherford)	1	6AA-
-29	174-71019-11		. . . RESISTOR ASSY, AN/ARN14 Radio	1	6AA-
	RE41E5-70K		. . . . RESISTOR, 70 OHMS, 5W (P.T. Weatherford)	1	6AA-
-30	AN3106M22-1-S	*5	. . PLUG	1	6AA-
-31	AN3106M22-1-P	*5	. . PLUG	1	6AA-
-32	AN3106M14-S5S	*5	. . PLUG	1	6AA-
-33	MT-26/U	*5	. . MOUNTING GFAE	1	6AA-
	174-71091		. RADIO EQUIP INSTL, Fus sta 88 1/2-168 RH side (see figure 86 for next assembly)	NP	6AA-
-34	1501-3	*1	. . CARD, Frequency channel designation (North American)	1	6AA-
	1501-5	*2	. . GUARD, Frequency instruction card (North American)	1	6AA-
-35	C626/ARC27	*6	. . COMMAND CONTROL PANEL (GFAE)	1	6AA-
	AN3106M22-1-S	*6	. . PLUG	2	6AA-
-36	174-71026		. . PANEL ASSY, Transfer control edge lighted radio	2	6AA-
-37	AN3021-3		. . . SWITCH	2	6AA-
-38	AN3021T-3		. . . LIGHT ASSY, Press to test indicator	2	6AA-
	AN3121-313		. . . LAMP	2	6AA-
-39	AN3102-2A		. . . LIGHT ASSY, Control panel plastic lighting plate	2	6AA-
			. . . LAMP, T1 3/4 bulb midget flange base (General Electric)	2	6AA-
	174-71026		. . . PLATE ASSY, Radio transfer control	1	6AA-
-40	PF3 1/2 -38	*3	. . . . FASTENER (Dzus Fastener)	2	6AA-
-41	PS3 1/2	*3	. . . . SPRING (Dzus Fastener)	2	6AA-
-42	PC3 1/2	*3	. . . . CUP (Dzus Fastener)	2	6AA-
-43	C790/ARA26	*5	. . CONTROL PANEL, Keyer (GFAE)	1	6AA-
	AN3106M14S5S	*5	. . PLUG	1	6AA-
	F6SCB161	*4	. . CLOSECUT PANEL, Emer Keyer (GFAE)	1	6AA-
	159-71123		. RADIO EQUIP. INSTL, Fus sta (see fig. 85 for next assy)	NP	6AA-
	174-71040-20		. . CABLE ASSY, AN/ARC27 Radio antenna	1	6AA-
-44	UG21D/U		. . . PLUG (American Phenolic)	1	6AA-
-45	UG22D/U		. . . PANEL JACK (American Phenolic)	1	6AA-
-46	174-71040-2		. . . CABLE, RG8A/U co-axial (105 inches)	1	6AA-
	159-71023		. ANTENNA CABLE INSTL, Radio VHF-UHF vertical stab (see figure -- for next assembly)	NP	6AA-
	174-71040-30		. . CABLE ASSY, AN/ARC27 Radio antenna	1	6AA-
-47	UG21D/U		. . . PLUG (American Phenolic)	2	6AA-
-48	174-71040-3		. . . CABLE, RG8A/U co-axial (74 inches)	1	6AA-
	174-71231		. RADIO EQUIP INSTL, Fus sta -9 1/2 to 168 LH (see fig. 82 for next assembly)	NP	6AA-
-49	AN3418-2-8		. . TERMINAL BLOCK ASSEMBLY	1	6AA-
	AN340-6		. . NUT	4	6AA-
	AN936A6B		. . WASHER	4	6AA-
	AN960-6		. . WASHER	4	6AA-
-50	159-73116-15		LEVER ASSY, Eng, control quadrant throttle (see fig. 235)	Ref	
-51	159-71021		PYRAMID ASSY, VHF-UHF Radio antenna complete (see fig. 44)	Ref	

*1 1501-3 supersedes 171-71172, which may be used interchangeably until stock is exhausted.
*2 1501-5 supersedes 159-71054, which may be used interchangeably until stock is exhausted.
*3 Dzus Fastener Assy PFSC3 1/2 may be substituted for PF3 1/2 -38 together with PS3 1/2 and PC3 1/2.
*4 Parts marked thus used on aircraft modified in accordance with T.O. 1F-28A-537.
*5 Parts marked thus not used on aircraft modified in accordance with T.O. 1F-28A-537.
*6 Not used on airplanes modified per T.O. 1T-28A-538.
*7 See fig. 181B for modification per T.O. 1T-28A-538.

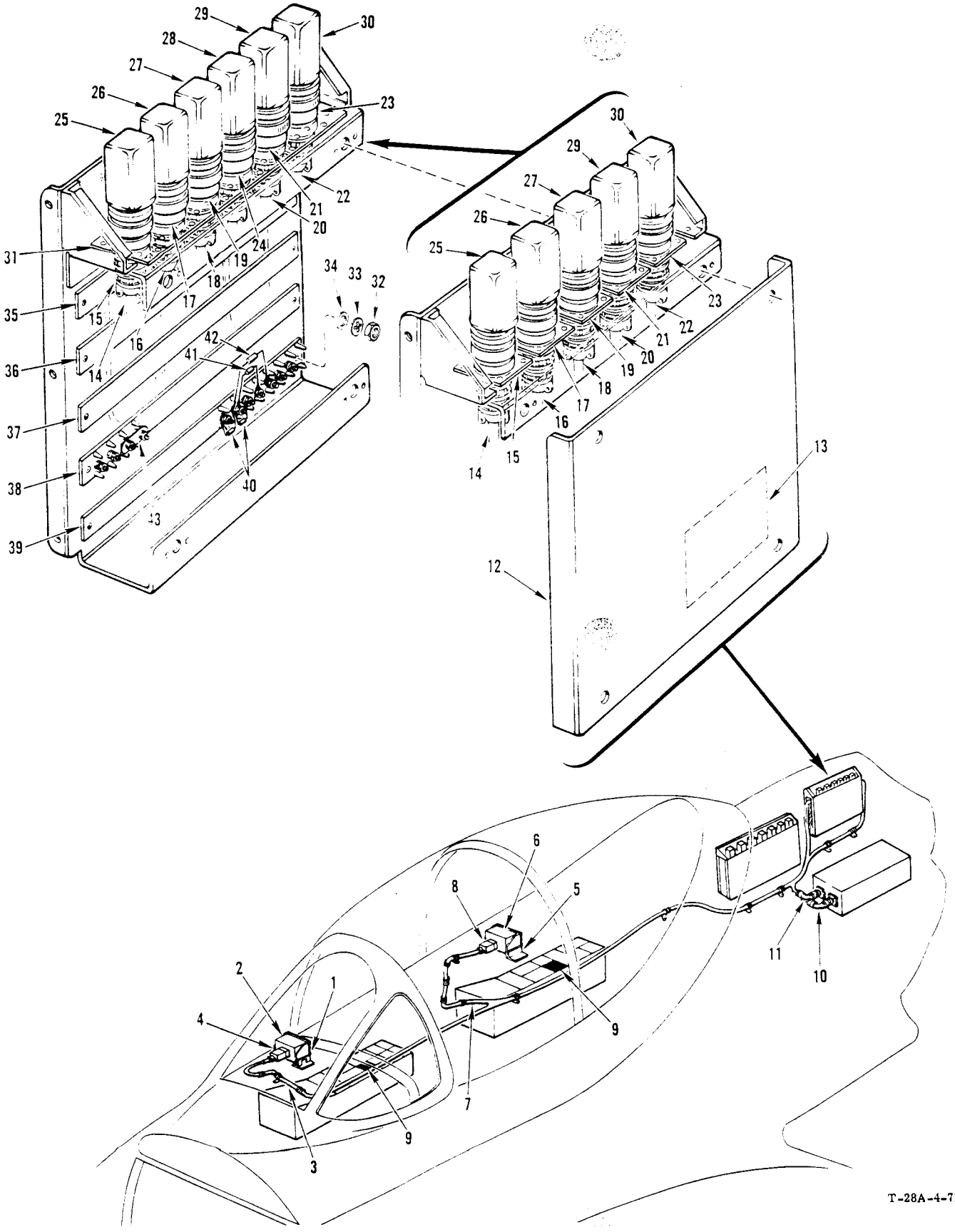


FIGURE 181B - C1904/ARC27 QUICK MANUAL TUNER INSTALLATION (MODIFICATION)
Revised 15 September 1961

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
1918	[illegible]	*1	TUNER INSTL. Quick manual 01904-AR027 (modification).	NP	A
	[illegible]	*2	TUNER INSTL. Quick manual 01904-AR027 (modification).	NP	B
	[illegible]	*3	TUNER INSTL, Quick manual 01904/AR027 (modification).	NP	B
-1	[illegible]		. BRACKET ASSY, Quick manual tuner fwd cockpit	1	
-2	01904/AR027		. TUNER, Quick manual.	1	
-3	[illegible]		. CABLE ASSY. Quick manual tuner	1	
-4	[illegible]		. . TUNER ELEC. 01904-AR027	1	
-5	[illegible]		. BRACKET ASSY. Quick manual tuner aft cockpit	1	
-6	01904-AR027		. TUNER, Quick manual.	1	
-7	[illegible]		. CABLE ASSY. Quick manual tuner	1	
-8	[illegible]		. . TUNER ELEC. 01904-AR027	1	
-9	[illegible]		. PANEL ASSY. Quick manual tuner	2	
-10	[illegible]		. CABLE ASSY. Quick manual tuner	1	
-11	[illegible]		. . TUNER ELEC. 01904-AR027	1	
-12	[illegible]		. CABLE ASSY. Quick manual tuner	1	
-13	MS27113B24-78		. . TUNER ELEC. 01904-AR027)	1	
	[illegible]	*1	. PANEL ASSY. Radio master junction modification	1	A
	[illegible]	*2	. PANEL ASSY. Radio master junction modification	1	B
	[illegible]	*3	. PANEL ASSY. Radio master junction modification	1	B
-14	[illegible]		. . POWER ASSY. Radio junction panel.	1	
-15	[illegible]		. . POWER ASSY. Radio junction panel.	1	B
-16	[illegible]	*1	. . RELAY, AN/AIC2 and AN/ARN14 installed	1	A
	[illegible]	*2	. . RELAY, AN AIC10 and AN/AIC14 installed	1	B
	[illegible]	*3	. . RELAY, AN AIC10 installed, AN/AIC14 removed	1	B
-17	[illegible]		. . CABLE ASSY. Radio master junction box (Relay No. 9)	1	
-18	MS27113B20-27S		. . . CONNECTOR.	1	
-19	[illegible]		. . CABLE ASSY. Radio master junction box (Relay No. 10)	1	
-20	MS27113B20-27S		. . . CONNECTOR.	1	
-21	[illegible]		. . CABLE ASSY. Radio master junction box (Relay No. 11	1	
-22	MS27113B20-27S		. . . CONNECTOR.	1	
-23	[illegible]		. . CABLE ASSY. Radio master junction box	1	
-24	MS27113B20-27S		. . . CONNECTOR.	1	
-25	[illegible]		. . CABLE ASSY. Radio master junction box	1	
-26	MS27113B20-27S		. . . CONNECTOR.	1	
-27	MS27113B20-27S*1,*4		. . CONNECTOR. (Relay No. 12)	1	A
-28	AN3[illegible]		. . RELAY, No. 5	1	
-29	AN3[illegible]		. . RELAY, No. 6	1	
-30	AN3[illegible]		. . RELAY, No. 11	1	
-31	AN3[illegible]	*1	. . RELAY, No. 12	1	A
-32	AN3[illegible]		. . RELAY, No. 13	1	
-33	AN3[illegible]		. . RELAY, No. 14	1	
-34	[illegible]	*1	. . PLATE, Junction box relay mounting	1	A
-35	AN3-1-6		. . NUT	100	
-36	AN936A6B		. . WASHER	100	
-37	AN960-6		. . WASHER	100	
-38	MS25123-1-20		. . TERMINAL BOARD	1	
-39	MS25123-1-20		. . TERMINAL BOARD	1	
-40	MS25123-1-20		. . TERMINAL BOARD	1	
-41	MS25123-1-20		. . TERMINAL BOARD	1	
-42	MS25123-1-20		. . TERMINAL BOARD	1	
-43	171-71019-5		. . RESISTOR ASSY, AN ARN14 radio	2	
	R041AE470K		. . . RESISTOR, 47 ohms, 2W (R.C. Weatherford)	1	
-44	171-71019-7		. . RESISTOR ASSY, AN ARN14 radio	1	
	RW56G101		. . . RESISTOR, 100 ohms, 10W	1	
-45	171-71019-11		. . RESISTOR ASSY, AN ARN14 radio	1	
	R041AE470K		. . . RESISTOR, 47 ohms, 2W (R.C. Weatherford)	1	
-46	MS25226-2-2		. . BUS BAR	1	

*1 Used on airplanes modified per T.O. 1T-28A-538 with AN/AIC2 and AN/ARN14 installed.
*2 Used on airplanes modified per T.O. 1T-28A-538 with AN/AIC10 and AN/ARN14 installed.
*3 Used on airplanes modified per T.O. 1T-28A-538 with AN/AIC10 installed and AN/ARN14 removed.
*4 Reinstall existing cable assembly on this plug.

USEABLE ON CODE: A 51-7663 thru 51-7796.
51-7482 thru 51-7597
B 51-7598 and subs

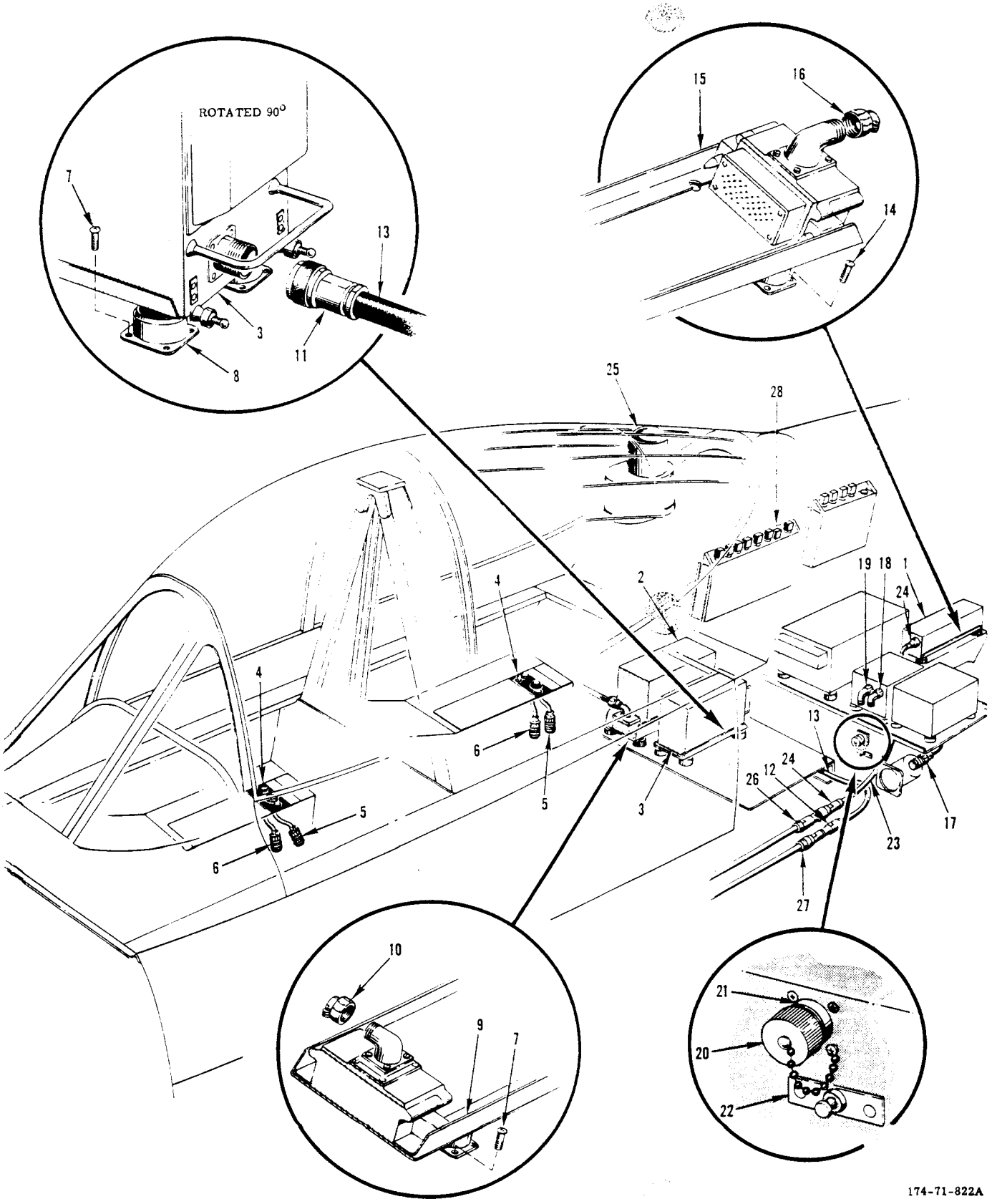


FIGURE 182 - AN/ARN14 AND AN/ARN18 RADIO EQUIPMENT

FUSELAGE RADIO (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
182				AN/ARN14 AND AN/ARN18 RADIO EQUIPMENT		
	171-71001	*2	.	RADIO SYSTEM EQUIPMENT INSTALLATION, Complete (see figure 1 for next assembly)	NP	4-843
-1	R252/ARN14	*1*2	. .	RECEIVER, Radio (GFAE) (R252A or B/ARN14, R539/ARN14, R539A/ARN14, R5-C/ARN14 or R541/ARN14 may be sub)	1	4-843
-2	DY66/ARN14	*2	. .	DYNAMOTOR (GFAE) (DY66A or B/ARN14 may be substituted)	1	4-843
-3	R322/ARN18		. .	RECEIVER, Radio (GFAE)	1	594-843
	174-71031		.	RADIO EQUIPMENT INSTALLATION, Fuselage station 49 1/2 to 168 RH side (see figure 58 for next assembly)	NP	594-843
-4	C760/A	*2	. .	CONTROL PANEL (GFAE) (C760A/A or C760B/A may be sub)	2	4-843
-5	AN3106-24--28S	*2 (Pos W)	. .	PLUG (C760/A control panel)	2	4-843
-6	AN3106-24--28S	*2	. .	PLUG (C760/A control panel)	2	4-843
	AN3057-16A	*2	. .	ADAPTER	4	4-843
	171-71431	*2	.	RADIO EQUIPMENT INSTALLATION, Fuselage station 168 (see figure 61 for next assembly)	NP	4-843
-7	AN520-10R10	*2	. .	SCREW	12	4-843
-8	MT691/ARN18		. .	MOUNTING (GFAE)	1	594-843
-9	MT628/ARN14	*2	. .	MOUNTING (GFAE) (MT1162/ARN may be substituted)	1	4-843
-10	AN3057-8A	*2	. .	ADAPTER	1	4-843
-11	UG213/U		. .	PLUG (American Phenolic)	1	594-843
-12	UG233/U		. .	JACK (American Phenolic)	1	594-843
	171-71182		. .	WIRING DIAGRAM, Radio AN/ARN18 antenna cable fuselage	NP	594-843
-13	RG8/U		. . .	CABLE, Co-axial (American Phenolic) (84 3/4 inches)	1	594-843
	174-71131	*2	.	RADIO EQUIPMENT INSTALLATION, Fuselage station 168 to 238 (see figure 63 for next assembly)	NP	4-843
-14	AN520-10R10	*2	. .	SCREW	8	4-843
-15	MT627/ARN14	*1*2	. .	MOUNTING (GFAE) (MT627A/ARN14 or MT1161/ARN may be sub)	1	4-843
-16	AN3057-16A	*2	. .	ADAPTER	1	4-843
-17	AN3106M20-29S	*2	. .	PLUG (CD251/ARN Indicator)	1	4-843
-18	AN3108M20-27S		. .	PLUG (Compass amplifier)	1	594-843
-19	AN3108M14S5S		. .	PLUG (Compass amplifier)	1	594-843
-20	2209-8	*2	. .	DUST CAP (Cannon Electric)	1	4-843
-21	AN3102-22--S	*2	. .	RECEPTACLE	1	4-843
-22	AN3161P5		. .	CIRCUIT BREAKER	1	594-843
	174-71022		. .	WIRING DIAGRAM, Rear section radio	NP	594-843
-23	RG8/U		. . .	CABLE, Co-axial (American Phenolic)	1	594-843
-24	UG210/U		. .	PLUG (American Phenolic)	2	594-843
-25	AS313A/ARN6			LOOP ANTENNA (GFAE) (see figure 177)	Ref	
-26	UG230/U			JACK (American Phenolic) (see figure 14)	Ref	
-27	UG210/U			PLUG (American Phenolic) (see figure 14)	Ref	
-28	171-71014-20			PANEL ASSY, Radio master function complete (see figure 180)	Ref	

*1 MT627/ARN14 to be used with R252 ARN14 only; MT627A/ARN14 may be used with any one of the ARN14 Receivers.

*2 Parts marked thus used on aircraft coded --593 when aircraft is modified in accordance with T. O. 17-28-50.

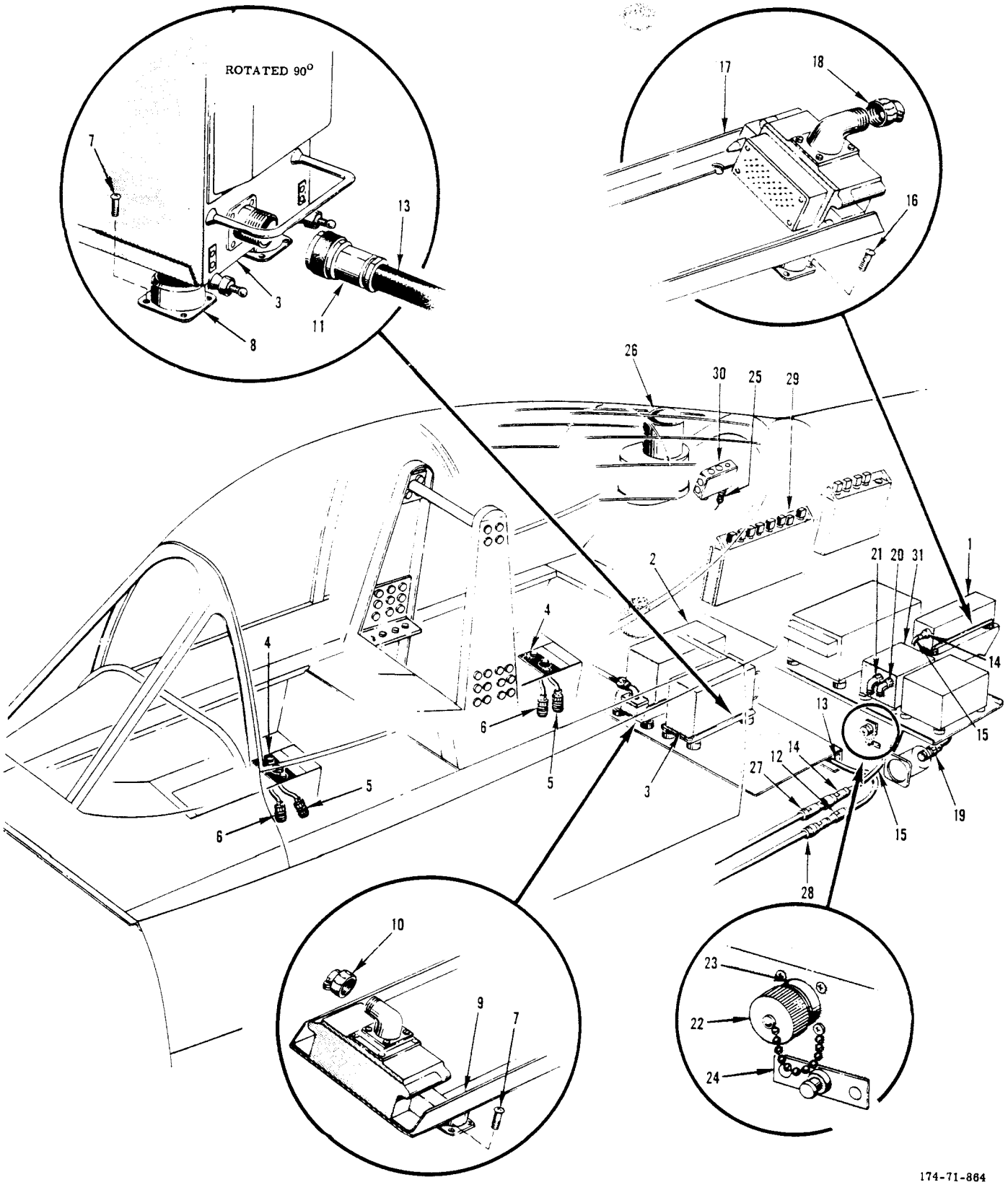


FIGURE 1524 - AN/ARN14 AND AN/ARN18 RADIO EQUIPMENT

FUSELAGE RADIO (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
182A			AN/ARN14 AND AN/ARN18 RADIO EQUIPMENT		
	1744-71001		. RADIO SYS INSTL, Complete (see fig. 1 for next assy)	NP	844-
-1	R2B2/ARN14		. . RECEIVER, Radio (3FAE) (R2B2A/ARN14, R2B2B, R539, ... R539A, R5-5, R541/ARN14 may be substituted)	1	844-
-2	DY66/ARN14		. . DYNAMOTOR (3FAE) (DY66A/ARN14 or DY66B/ARN14 may be sub).	1	844-
-3	R2B2/ARN18		. . RECEIVER, Radio (3FAE).	1	844-
	1744-71001		. RADIO EQUIP INSTL, Fus sta 44 1/2 to 168 RH side . . . . . (see figure 2B for next assembly)	1	844-
-4	C760/A		. . CONTROL PANEL (3FAE) (C760A/A or C760B/A may be sub.) . .	1	844-
-5	AN3106-2--2S				
	(P2B,A)		. . PLUG (C760/A control panel)	2	844-
-6	AN3106-2--2S		. . PLUG (C760/A control panel)	2	844-
	MS3367-10A		. . ADAPTER	4	844-
	1744-71001		. RADIO EQUIP INSTL, Fus sta 168 (see fig. 2C for next assy) .	NP	844-
-7	AN521-10A-4		. . SCREW	12	844-
-8	MT627/ARN14		. . MOUNTING (3FAE)	1	844-
-9	MT627/ARN18		. . MOUNTING (3FAE)	1	844-
-10	MS3367-10A		. . ADAPTER	1	844-
-11	1744-71001-30		. . CABLE ASSY, AN/ARN14 radio antenna (American Phenolic).	1	844-
-12	UG21C/U		. . . PLUG (UG21D/U may be sub.) (American Phenolic)	1	844-
-13	UG21D/U		. . . PLUG (UG21C/U may be sub.) (American Phenolic)	1	844-
-14	1744-71001-5		. . . CABLE, RG8A/U co-axial (84 3/4 in.)(American Phenolic)	1	844-
	1744-71001-30		. . CABLE ASSY, AN/ARN14 radio antenna.	1	844-
-15	UG21C/U		. . . PLUG (American Phenolic) (UG21C/U may be sub.)	2	844-
-16	1744-71001-5		. . . CABLE, RG8A/U co-axial (39 1/2 in.).	1	844-
	1744-71001		. RADIO EQUIPMENT INSTALLATION, Fus sta 168 to 235 (see. . . . 5B for next assembly)	NP	844-
-17	AN521-10R12		. . SCREW	8	844-
-18	MT627/ARN14		. . MOUNTING (3FAE)	1	844-
-19	MS3367-10A		. . ADAPTER	1	844-
-20	AN3106M20-22S		. . PLUG (ID391/ARN Indicator).	1	844-
-21	AN3106M20-27S		. . PLUG (Compass amplifier).	1	844-
-22	AN3106M14-5S		. . PLUG (Compass amplifier).	1	844-
-23	8209-6		. . BOOT CAP (Cannon Electric).	1	844-
-24	AN3102-22--6		. . RECEPTACLE.	1	844-
-25	AN5102F5		. . CIRCUIT BREAKER	1	844-
-26	AN3106-16S1P		. . PLUG (Dynosyn junction box)	1	844-
	MS3367-6A		. . ADAPTER	1	844-
-27	A8914/ARN6		LOOP ANTENNA (3FAE) (see figure 1-7).	Ref	
-28	UG210/U		JACK (American Phenolic) (see figure 1-).	Ref	
-29	UG21C/U		PLUG (American Phenolic) (see figure 1-).	Ref	
-30	1744-71001--20		PANEL ASSY, Radio master junction complete (see figure 18C) . .	Ref	
-31	1744-4041		BOX ASSY, Elec gyro compass junction complete (see figure 17).	Ref	
-32	MS Number		AMPLIFIER, Compass type C1 (see figure 2B).	Ref	

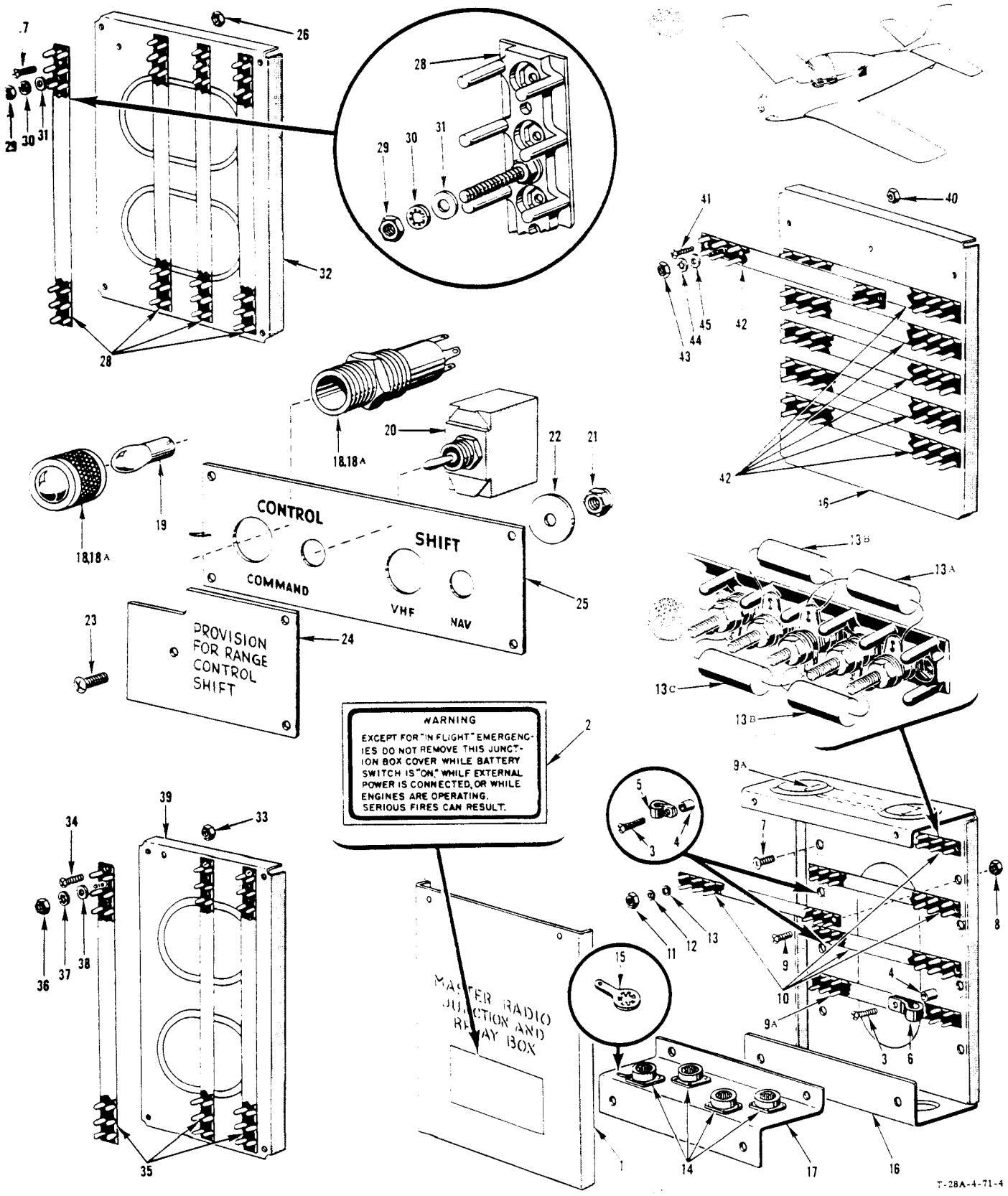


FIGURE 183 - MISCELLANEOUS RADIO PANELS

Revised 27 May 1955

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
183			MISCELLANEOUS RADIO PANELS		
	189-71045-5	*1	. PANEL ASSY, Radio master jct (see fig. 178 for next assy)	Ref	--268
-1	189-71047-5		. . COVER ASSEMBLY, Radio master junction	1	--268
-2	151-64094		. . . DECALCOMANIA, Junction box cover warning	1	--268
	189-71058		. . . CHART, Radio master junction box	1	--268
-3	AN515-8R14		. . SCREW	3	--268
-4	483D8-14		. . SPACER, Bolt (North American	3	--268
-5	AN742D7C		. . CLAMP	1	--268
-6	TR515-2-6		. . CLAMP ASSY, Line supporting (Adel Precision	1	--268
-7	AN515-8R6		. . SCREW	1	--268
-8	AN365-440		. . NUT	1	--268
-9	AN515-8R6		. . SCREW	1	--268
-9A	AN3416-2-12	*2	. . TERMINAL BLOCK ASSEMBLY	1	--268
-10	MAC45-6-12		. . PANEL ASSEMBLY, Electrical connector	1	--268
-11	AN364-10		. . NUT	4	--268
-12	AN960-10		. . WASHER	4	--268
-13	AN960-10		. . WASHER	4	--268
-13A	171-71019-4		. . RESISTOR ASSY, AN/ARN14 radio	1	--268
	RC41AE470K		. . . RESISTOR, 47 ohms R.T. Weatherpruf	1	--268
-13B	171-71019-5		. . RESISTOR ASSY, AN/ARN14 radio	1	--268
	RC41AE470K		. . . RESISTOR, 47 ohms R.T. Weatherpruf	1	--268
-13C	171-71019-7		. . RESISTOR ASSY, AN/ARN14 radio	1	--268
	RW69V101		. . . RESISTOR, 100 ohms R.T. Weatherpruf	1	--268
-14	AN3102-20-27S		. . RECEPTACLE	1	--268
-15	2153-4--20		. . TERMINAL, Locking Shakeproof	1	--268
	189-71046		. . MOUNTING ASSEMBLY, Radio master junction	1	--268
-16	189-71046-11		. . . PANEL ASSEMBLY, Radio master junction mount	1	--268
-17	189-71046-12		. . . BRACKET ASSEMBLY, Radio master junction mount	1	--268
	189-71047-6	*2	. PANEL ASSEMBLY, Radio transfer control (see figures 178 and 184 for next assembly	Ref	--268
	189-71069	*3	. PANEL ASSEMBLY, Radio transfer control (see figures 178 and 184 for next assembly	Ref	--268
-18	AN3167--	*1	. . LIGHT ASSEMBLY, Press to test indicator Amber	1	--268
-19	AN3167-1	*2	. . LIGHT ASSEMBLY, Press to test indicator Green	1	--268
-20	AN3121-328		. . LAMP, (One used in 189-71047-6	1	--268
-21	AN3121-1		. . LAMP, (One used in 189-71047-6	1	--268
-21A	AN3065-0-50	*1	. . NUT	1	--268
-22	EWLAL10-24-32	*1	. . WASHER, Flat .5 mtg American	1	--268
-23	AN515B6R7	*2	. . SCREW	1	--268
-24	189-71064	*2	. . COVER, Radio transfer contr. panel	1	--268
-25	189-71066	*2	. . PANEL, Radio transfer control	1	--268
	189-71068-3	*2	. PANEL, Radio transfer control	1	--268
	189-71032		. PANEL ASSEMBLY, Pilot's radio control interconnector (see figure 178 for next assembly	Ref	--268
-26	AN365-440		. . NUT	4	--268
-27	AN515-4R6		. . SCREW	4	--268
-28	MAC45-6-16		. . PANEL ASSEMBLY, Electrical connector	1	--268
	MAC44-6-2		. . BUS BAR, Electrical	1	--268
-29	AN364-6		. . NUT	3	--268
-30	AN960A6		. . WASHER	3	--268
-31	AN960-6		. . WASHER	3	--268
-32	189-71033		. . PLATE ASSY, Pilot's control terminal mog strip (radio	1	--268
	189-71034	*1	. PANEL ASSEMBLY, Pilot's radio control interconnector (see figure 178 for next assembly	Ref	--268
-33	AN365-440		. . NUT	4	--268
-34	AN515-4R6		. . SCREW	4	--268
-35	MAC45-6-14		. . PANEL ASSEMBLY, Electrical connector	1	--268
	171-71019-5	*2	. . RESISTOR ASSY, AN/ARN14 radio	1	--268
	RC41AE470K	*2	. . . RESISTOR, 47 ohms R.T. Weatherpruf	1	--268
	171-71019-3	*2	. . RESISTOR ASSY, AN ARN14 radio	1	--268
	RC41AE470K	*2	. . . RESISTOR, 47 ohms R.T. Weatherpruf	1	--268
-36	AN364-6		. . NUT	4	--268
-37	AN960A6		. . WASHER	4	--268
-38	AN960-6		. . WASHER	4	--268
-39	189-71040		. . PLATE ASSEMBLY, Pilot's radio control interconnector	1	--268
	189-71041		. PANEL ASSEMBLY, Co-pilot's radio control interconnector (see figure 178 for next assembly	Ref	--268
-40	AN365-440		. . NUT	4	--268
-41	AN515-4R6		. . SCREW	4	--268
-42	MAC45-6-15		. . PANEL ASSEMBLY, Electrical connector	1	--268
	MAC44-6-2		. . BUS BAR, Electrical	1	--268
-43	AN364-6		. . NUT	3	--268
-44	AN960A6		. . WASHER	3	--268
-45	AN960-6		. . WASHER	3	--268
-46	189-71042		. . PLATE ASSY, Co-pilot's radio terminal mounting	1	--268

*1 Rework in accordance with T. O. 1T-28-50.
*2 Parts marked thus used on aircraft modified in accordance with T. O. 1T-28-50.
*3 Parts marked thus not used on aircraft which have been modified in accordance with T. O. 1T-28-50.

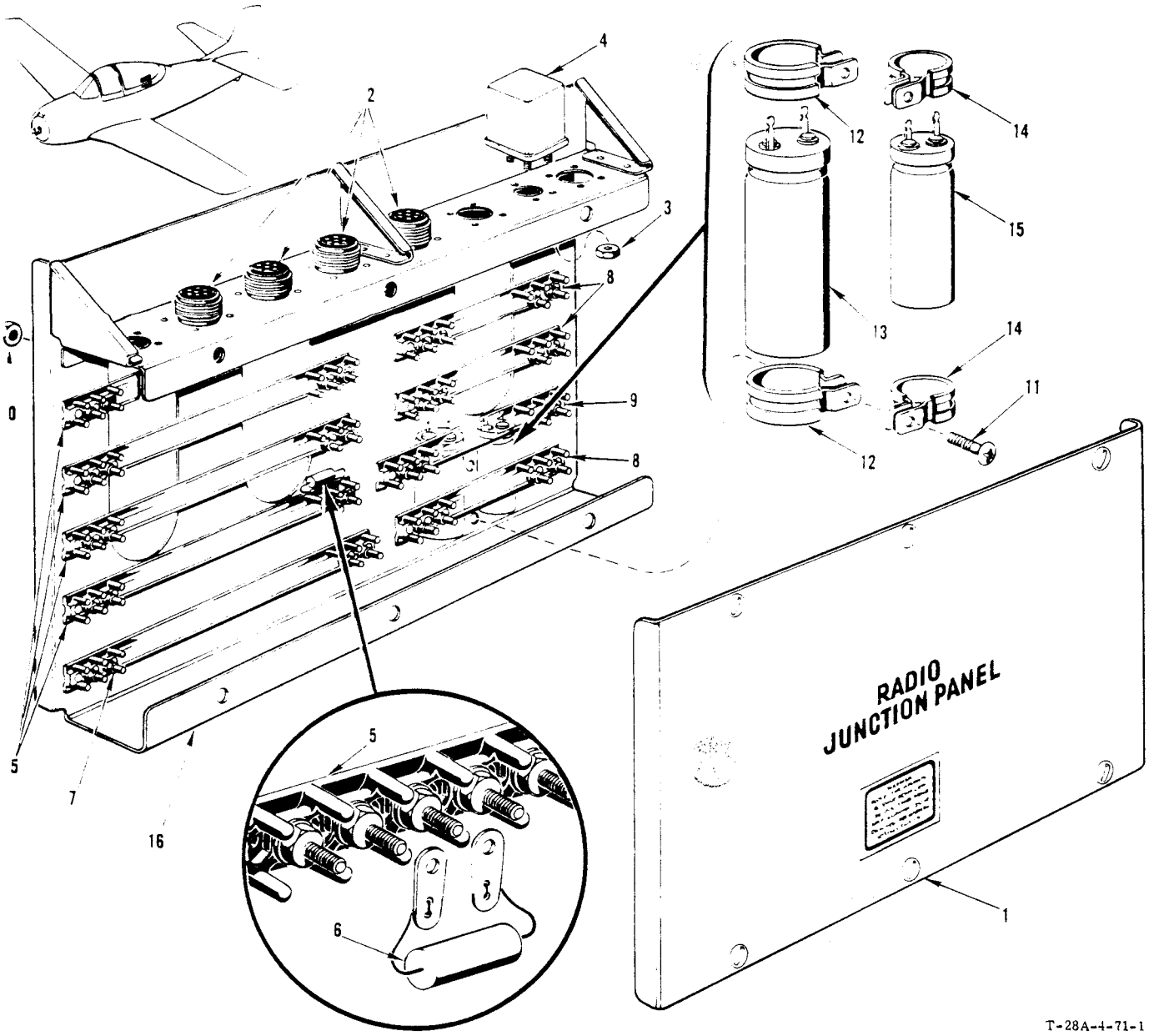


FIGURE 28A - COMPLETE RADIO MASTER JUNCTION PANEL ASSEMBLY (MODIFICATION)

FIGURE & INDEX NUMBER	PART NUMBER	NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
28A	159-7121-*1	PANEL ASSEMBLY, Radio master junction complete (See Figure 28) (for detail breakdown)	Ref	4-268
-1	171-7121-[illegible]	COVER ASSEMBLY, Radio master junction panel	1	4-268
-2	AN3102M20-[illegible]	CONNECTOR	1	4-268
-3	AN365-632	NUT	3	4-268
-4	03519	RELAY, (Cornm,	1	4-268
-5	AN3436-2-[illegible]	TERMINAL PANEL ASSEMBLY	4	4-268
-6	171-[illegible]	RESISTOR ASSEMBLY, AN/ARN1- panel	1	4-268
	RCR1AE[illegible]K	RESISTOR, (or C. Weatherford Co)	1	4-268
-7	AN3436-2-[illegible]	TERMINAL PANEL ASSEMBLY	1	4-268
-8	AN3436-2-[illegible]	TERMINAL PANEL ASSEMBLY	4	4-268
-9	AN3436-2-[illegible]	TERMINAL PANEL ASSEMBLY	1	4-268
-10	AN365-832	NUT	2	4-268
-11	AN515-8R10	SCREW	2	4-268
-12	AN742D[illegible]	CLAMP	2	4-268
-13	31737[illegible]	CAPACITOR, [illegible] MFD 3V WP dry electrolytic (Sprague)	1	4-268
-14	AN742D[illegible]	CLAMP	2	4-268
-15	31737[illegible]	CAPACITOR, [illegible] MFD 3V WP dry electrolytic (Sprague)	1	4-268
-16	159-7121-[illegible]	PANEL ASSEMBLY, Radio junction	1	4-268

*1 Used on aircraft modified in accordance with T. O. 1T-28-50.

AN 01-60FGA-4

FUSELAGE RADIO (Cont)

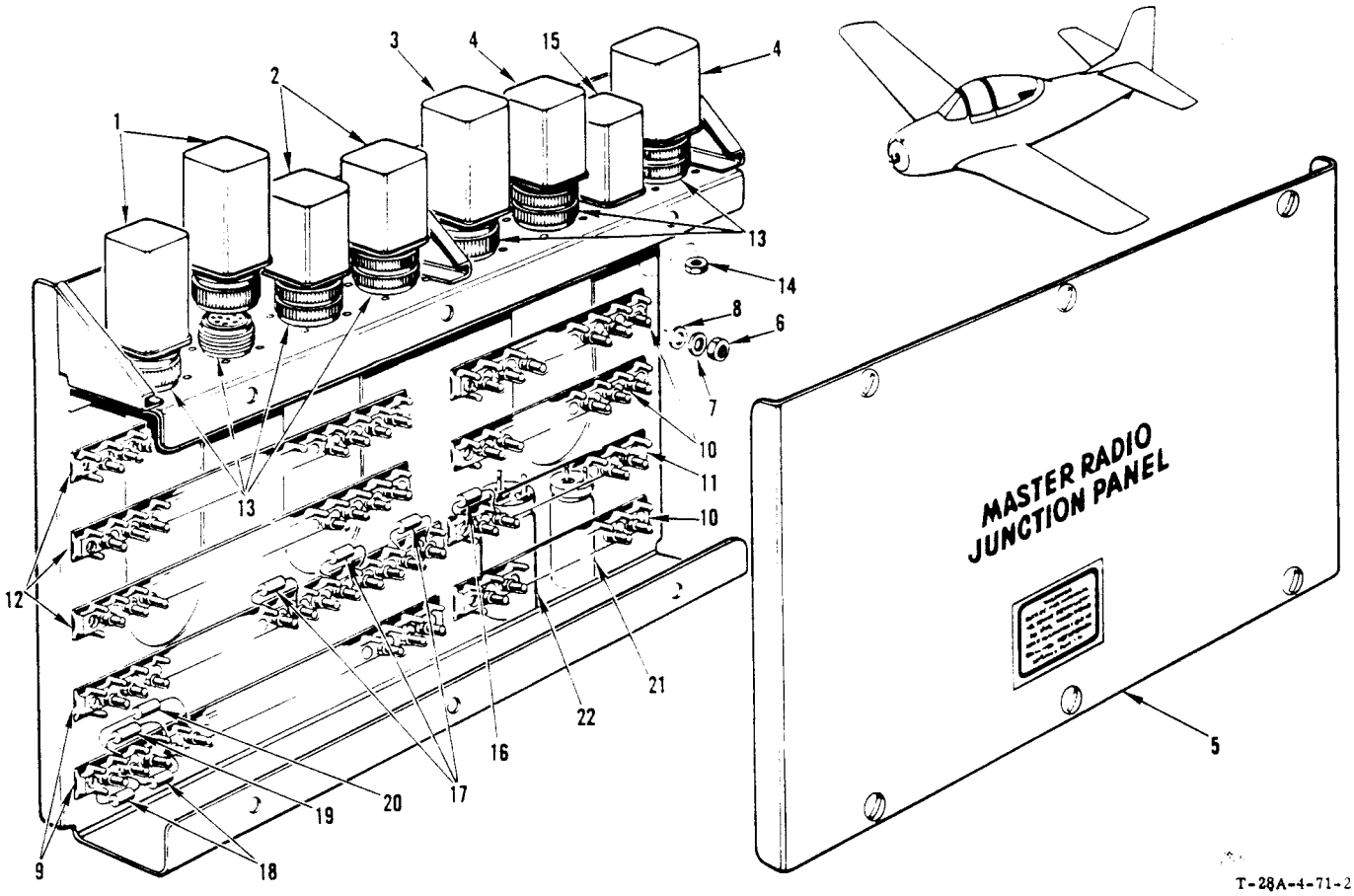


FIGURE 153B - RADIO MASTER JUNCTION PANEL ASSEMBLY AND RELAYS

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
153B	No Number		RADIO MASTER JUNCTION PANEL ASSEMBLY AND RELAYS (see Figure 179 for next assembly)	NP	269-593
-1	AN3303-1		. RELAY	2	269-593
-2	A8979-1A		. RELAY, (Advance Electric)	2	269-395
	AN3303-1		. RELAY	2	396-593
-3	AN3303-1		. RELAY	1	396-593
-4	A8979-1A		. RELAY, (Advance Electric)	2	396-593
	171-71014	*1	. PANEL ASSEMBLY, Radio master junction complete	1	269-395
	171-71014-10	*1	. PANEL ASSEMBLY, Radio master junction complete	1	396-593
-5	171-71016		. . COVER ASSY, Radio master junction box panel	1	269-395
	171-71016-10		. . COVER ASSY, Radio master junction box panel	1	396-593
-6	AN340-6		. . NUT	145	269-593
-7	AN936A6		. . WASHER	145	269-593
-8	AN960-6		. . WASHER	145	269-593
-9	NAS45-6-20		. . PANEL ASSEMBLY, Electrical connector	2	269-593
-10	NAS45-6-10		. . PANEL ASSEMBLY, Electrical connector	4	269-593
-11	NAS45-6-11		. . PANEL ASSEMBLY, Electrical connector	1	269-593
-12	NAS45-6-18		. . PANEL ASSEMBLY, Electrical connector	3	269-593
-13	AN3102M20-27S		. . RECEPTACLE	7	269-593
-14	AN365-632		. . NUT	3	
-15	C3519		. . RELAY, (Comar Electric Co) (supersedes Struthers-Dunn 181XAX53 or Advance Electric Co TC3D24A3 which may be used interchangeably until stock is exhausted)	1	269-593
-16	171-71019		. . RESISTOR ASSEMBLY, AN/ARN14 radio	1	269-395
	RC21AE102K		. . . RESISTOR, (R. V. Weatherford Co)	1	269-395
-17	171-71019		. . RESISTOR ASSEMBLY, AN/ARN14 radio	3	396-593
	RC21AE102K		. . . RESISTOR, (R. V. Weatherford Co)	1	396-593
-18	171-71019-5		. . RESISTOR ASSEMBLY, AN/ARN14 radio	2	269-395
	RC41AE470K		. . . RESISTOR, (R. V. Weatherford Co)	1	269-395
-19	171-71019-7		. . RESISTOR ASSEMBLY, ARN/14 radio	1	269-395
	RW56G101		. . . RESISTOR, (R. V. Weatherford Co)	1	269-395
-20	171-71019-11		. . RESISTOR ASSEMBLY, ARN/14 radio	1	269-395
	RC41AE470K		. . . RESISTOR, (R. V. Weatherford Co)	1	269-395
-21	S17377		. . CAPACITOR, (Sprague Electric)	1	269-593
-22	S17378		. . CAPACITOR, (Sprague Electric)	1	269-593

*1 Rework in accordance with T. O. 1T-28-5C.

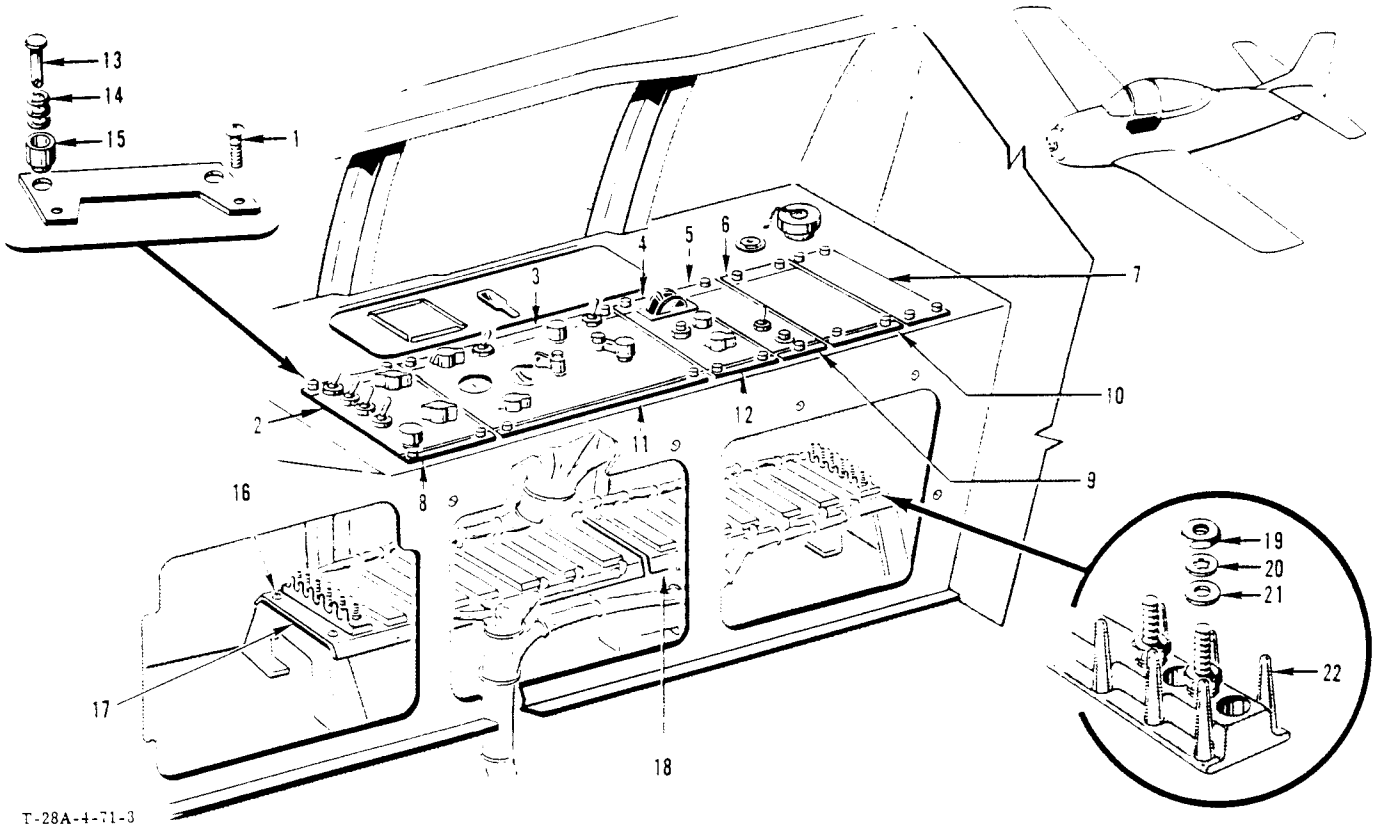


FIGURE 184 - FUSELAGE RIGHT SIDE CONSOLE RADIO PANELS

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
184	No Number		FUS RIGHT SIDE CONSOLE RADIO PANELS, see Fig.176 for next assy	NP	81-268
-1	AN515-8R7		. SCREW	8	81-268
-2	0383/AIC		. CONTROL PANEL, (DFAE)	2	81-268
-3	174-7106--5		. PANEL ASSY, Radio compass control (altered from DFAE 0411/A panel assy)(supersedes 159-7106--3 which may be used interchangeable until stock is exhausted)	2	81-268
-4	0404/A	*2	. VHF COMMAND CONTROL PANEL, (DFAE)	2	81-268
-5	159-71037-5	*2	. PANEL ASSY, Radio transfer control (see Figure 183 for detail breakdown)	2	81-268
	159-71163	*3	. PANEL ASSY, Radio transfer control (see Figure 183 for detain breakdown)	1	81-268
-6	159-71086-5	*2	. PANEL, Radio console closeout	2	81-268
-7	159-71093	*2	. PANEL ASSEMBLY, Radio forward console closeout	1	81-268
	159-71166	*3	. PANEL ASSEMBLY, Radio forward console closeout	1	81-268
	159-71094		. PANEL ASSEMBLY, Radio aft console closeout	1	81-268
-8	159-71091		. ADAPTER ASSEMBLY, Radio interphone control panel	4	81-268
-9	159-71089		. ADAPTER ASSEMBLY, Radio transfer control panel	4	81-268
-10	159-71059		. ADAPTER ASSEMBLY, Radio marker beacon control panel	4	81-268
-11	157-71041		. ADAPTER ASSEMBLY, AN/ARN6 Radio compass control panel	4	81-268
-12	157-71042		. ADAPTER ASSEMBLY, AN/ARC3 Radio control panel	4	81-268
-13	PP3 1/2 -38	*1	. . FASTENER, (Dzus Fastener	4	81-268
-14	PS3 1/2	*1	. . SPRING, (Dzus Fastener	4	81-268
-15	P23 1/2	*1	. . CUP, (Dzus Fastener	4	81-268
-16	AN515-8R8		. SCREW	16	81-268
-17	159-71098		. PANEL ASSEMBLY, Radio console front terminal	2	81-268
-18	159-71097		. PANEL ASSEMBLY, Radio console rear terminal	2	81-268
-19	AN340-6		. . NUT, (front)	6	81-268
	AN340-6		. . NUT, (rear)	4	81-268
-20	AN936A6		. . WASHER, (front)	6	81-268
	AN936A6		. . WASHER, (rear)	4	81-268
-21	AN960-6		. . WASHER, (front)	6	81-268
	AN960-6		. . WASHER, (rear)	4	81-268
-22	NAS45-6-5		. . PANEL ASSEMBLY, Electrical connector (front)	1	81-268
	NAS45-6-6		. . PANEL ASSEMBLY, Electrical connector (rear)	1	81-268
-23	159-71019-6	*2	. . RESISTOR ASSEMBLY, AN/ARN14 Radio	1	81-268
	RC41AE470K	*2	. . . RESISTOR, 47 ohms (R.C. Weatherford)	1	81-268
-24	159-71019-9	*3	. . RESISTOR ASSEMBLY, AN/ARN14 Radio	1	81-268
	RC41AE470K	*3	. . . RESISTOR, 47 ohms (R.C. Weatherford)	1	81-268

*1 Use 1 each on 159-71089; 2 each on 157-71042, 159-71059 and 159-71090; 4 each on 159-71093 and 159-71094; 3 each on 157-71041.
*2 Parts marked thus not used on aircraft modified in accordance with T. O. 1T-28-50.
*3 Parts marked thus used on aircraft modified in accordance with T. O. 1T-28-50.

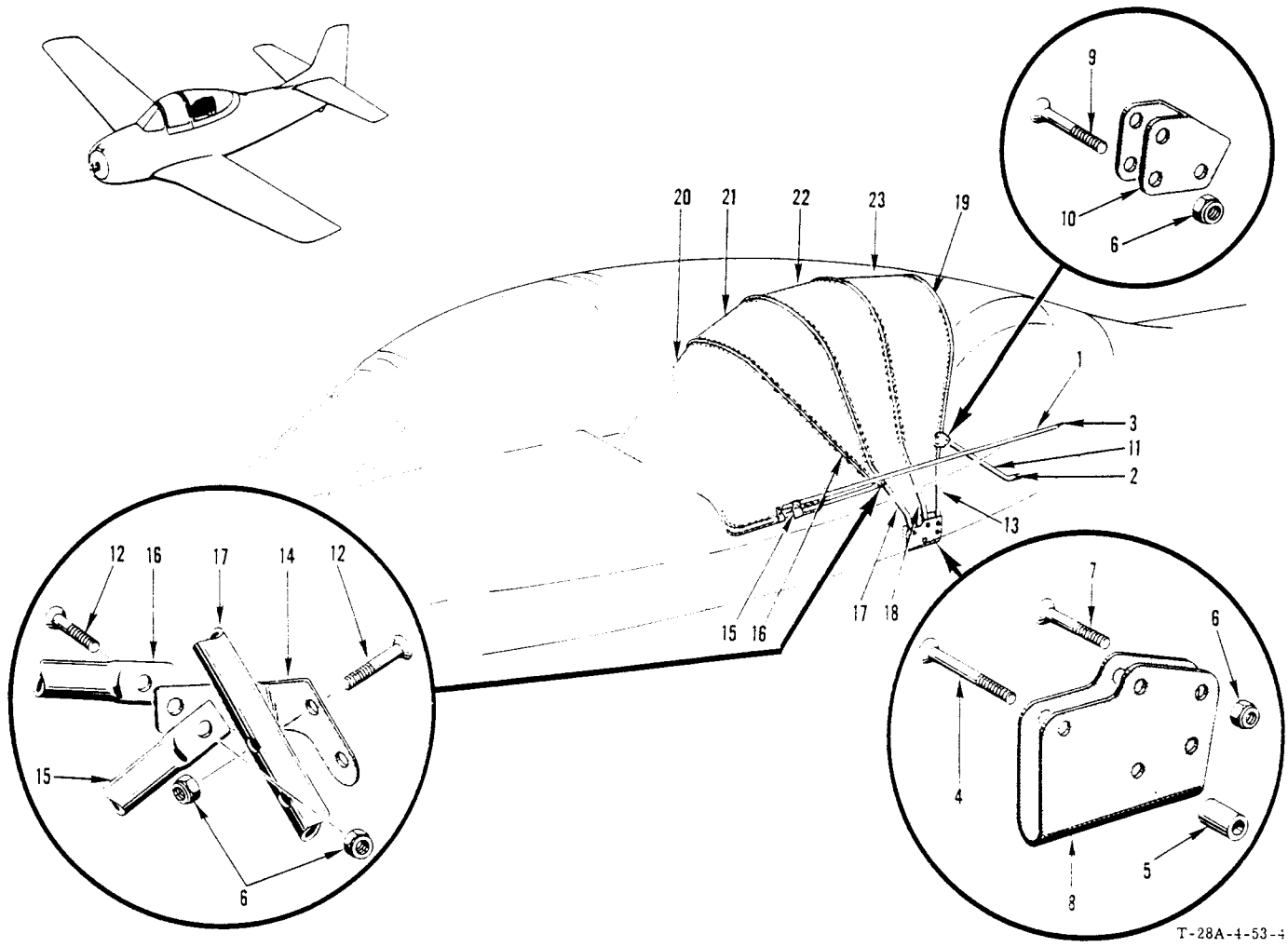
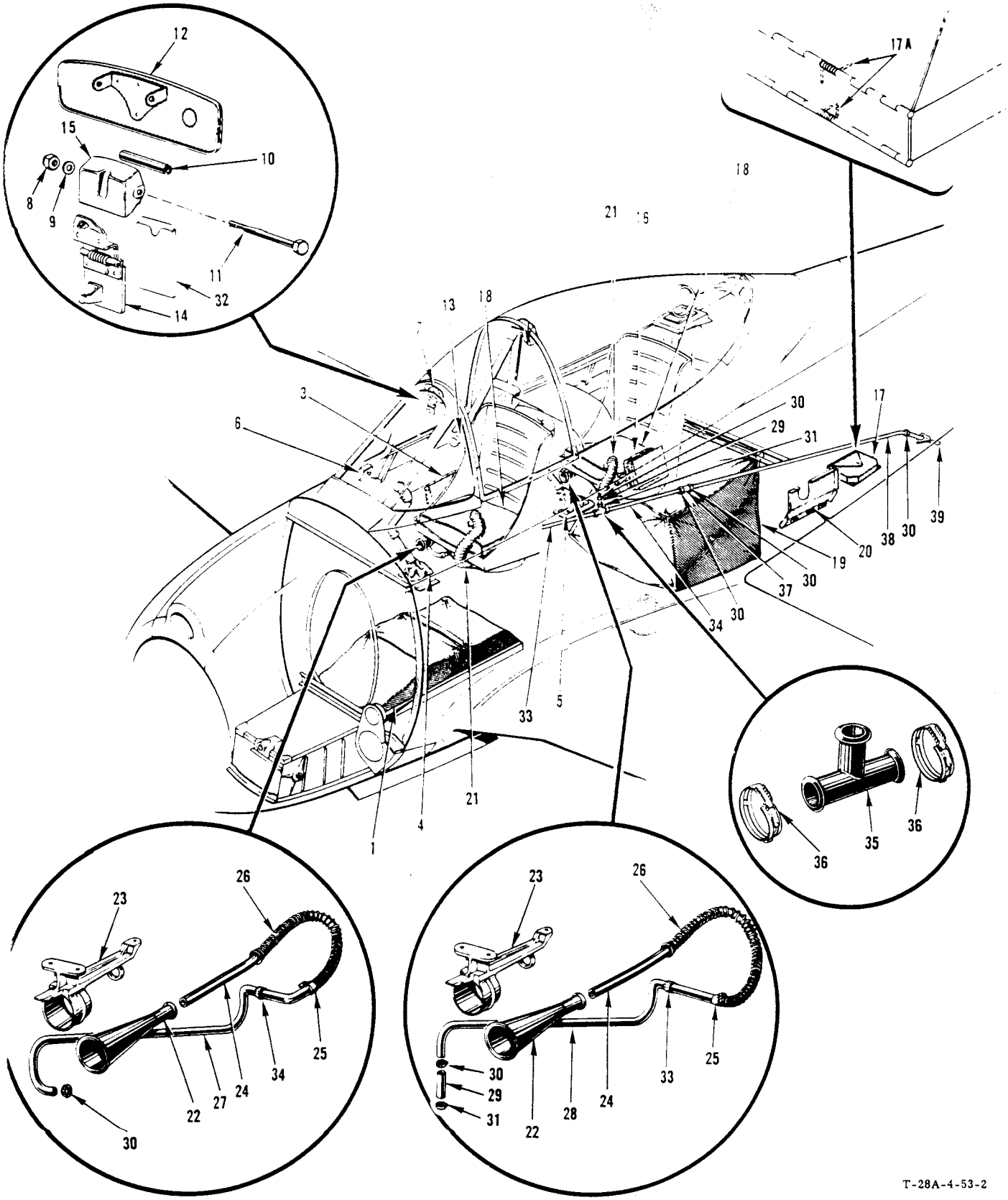


FIGURE 185 - INSTRUMENT FLYING HOOD

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
185	174-53093-M	*2	HOOD INSTL, Instrument flying (see figure 1 for next assy	NP	
-1	159-71162		. SPRING, Tension	2	
	10C2B10-13		. CONDUIT, (North American)	2	
-2	AN520-10R8		. SCREW	2	
	AN960D10		. WASHER	2	
-3	AN42-4		. BOLT	2	
-4	AN507-832R14		. SCREW	2	
-5	NAS43DD3-12		. SPACER, Screw and bolt	2	
	174-53094	*1	. HOOD ASSY, Instrument flying	1	
-6	AN364-632		. . NUT	20	
-7	AN507-632R8		. . SCREW	8	
-8	174-53102-1		. . FITTING, Instrument flying hood pivot LH	1	
	174-53102-2		. . FITTING, Instrument flying hood pivot RH	1	
-9	AN507-632R12		. . SCREW	6	
-10	174-53101-1		. . FITTING, Instrument flying hood rear support LH	1	
	174-53101-2		. . FITTING, Instrument flying hood rear support RH	1	
	58A76005-L		. . BRACKET, Instrument flying hood rear attach LH	1	
-11	174-53100		. . SUPPORT ASSY, Instrument flying hood rear	2	
-12	AN507-632R10		. . SCREW	6	
-13	174-53098-3		. . BOW ASSY, Instrument flying hood	1	
-14	58B76006-L		. . BRACKET, Instrument flying hood front att LH	1	
	58B76006-R		. . BRACKET, Instrument flying hood front att RH	1	
-15	58A76007		. . STRAP ASSY, Instrument flying hood LH	1	
-16	174-53095		. . BOW ASSY, Instrument flying hood	2	
-17	174-53097		. . BOW ASSY, Instrument flying hood	1	
-18	174-53098		. . BOW ASSY, Instrument flying hood	1	
-19	174-53094-21		. . FABRIC, Instrument flying hood	1	
-20	174-53094-9		. . FABRIC, Instrument flying hood	1	
-21	174-53094-7		. . FABRIC, Instrument flying hood	1	
-22	174-53094-5		. . FABRIC, Instrument flying hood	1	
-23	174-53094-3		. . FABRIC, Instrument flying hood	1	

*1 Reworked by T. O. 1T-28A-205 and T. O. 1T-28A-533.
*2 Refer to T. O. 1T-28A-206.

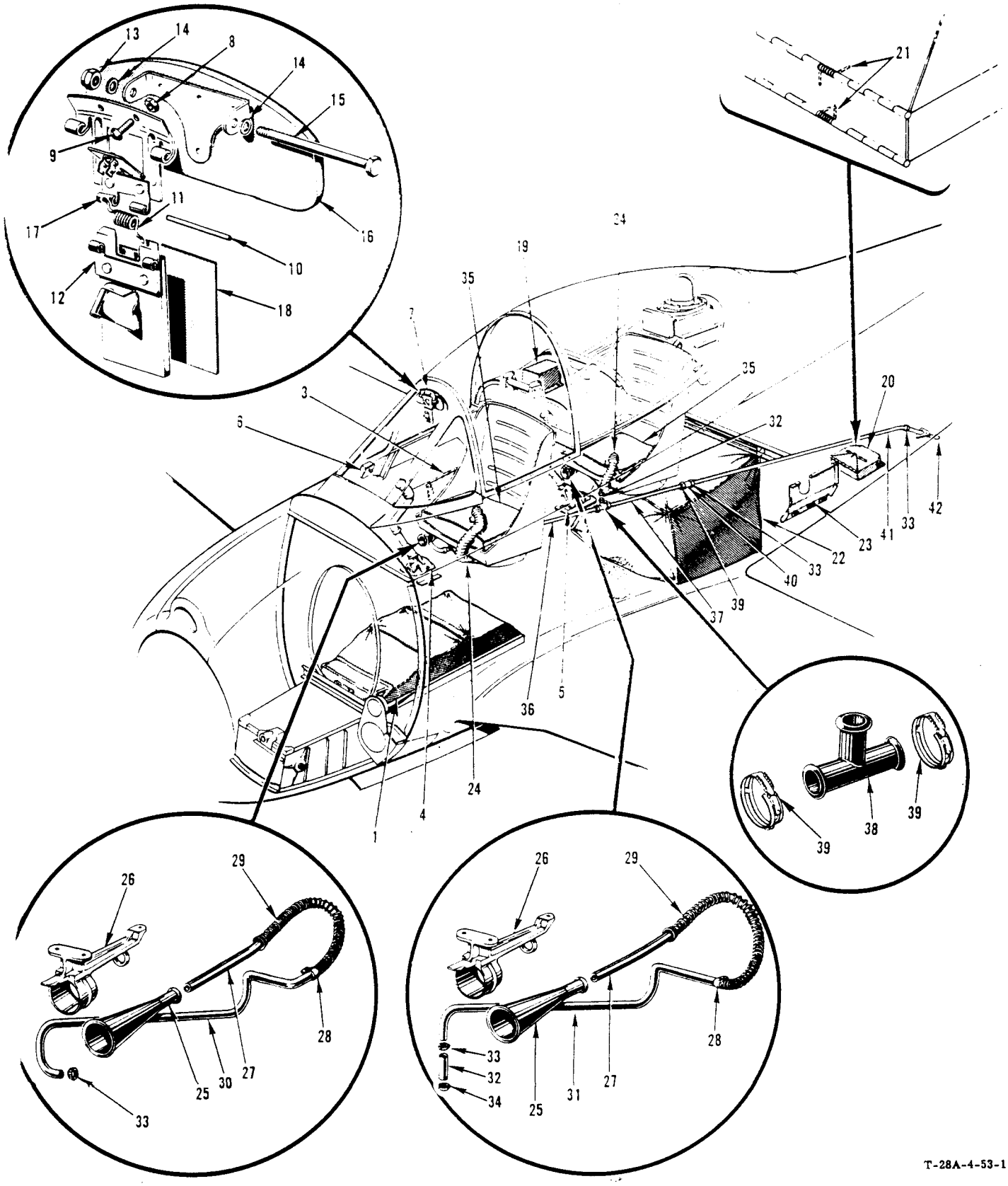


T-28A-4-53-2

FIGURE 18b - FUSELAGE FURNISHINGS COMPLETE

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
186			FUSELAGE FURNISHINGS COMPLETE		
	159-53031		. FURNISHING EQUIPMENT INSTALLATION, Fuselage (see figure 50 for next assembly)	NP	4-693
-1	159-53076		. . SEAL ASSEMBLY, Nose wheel well dust	1	4-82
	159-53106		. . SEAL ASSEMBLY, Nose wheel well dust	1	83-393
	174-53076		. . SEAL ASSEMBLY, Nose wheel well dust	1	394-693
-2	DELETED				
-3	159-53102		. . HOLDER ASSEMBLY, Flight report	1	4-693
-4	159-53042		. . BOOT ASSEMBLY, Control stick forward	1	4-693
-5	159-53043		. . BOOT ASSEMBLY, Control stick rear	1	4-693
-6	21630		. . ASH TRAY ASSEMBLY, (Grand Rapids Metalcraft	2	4-693
-7	159-53020		. . PANEL ASSEMBLY, Rear view mirror and standby compass	1	4-393
	159-53020-10		. . PANEL ASSEMBLY, Rear view mirror and standby compass	1	394-693
-8	AN365B1032		. . . NUT	1	4-693
-9	AN960D10L		. . . WASHER	1	4-693
-10	AN960D10-92		. . . SPACER, Bolt (North American)	1	4-693
-11	BB17-34A		. . . BOLT, Corrosion resistant (North American)	1	4-693
-12	P1088		. . . MIRROR, (Liberty Mirror Div (model 612NA50NM)	1	4-693
-13	AN5766T1		. . . COMPASS ASSY, Pilot's standby type B21 (GFAE) (AERNO 60-1446, AN5766T3, or Spec 2747A, type B21 or AN5766-3 may be used	1	4-393
	No Number		. . . COMPASS ASSY, Pilot's standby type B21 (GFAE) (Spec 2747A can be substituted for AN5766T1,	1	4-693
	AN5766T3		. . . COMPASS ASSY, Magnetic pilot's standby (Spec AN-C146A) (GFAE) AERNO 60-1446 (GFAE AN5766-3 may be used)	1	394-693
-14	174-53116	*2	. . . BRACKET ASSY, Compass correction card holder support	1	4-693
	174-53113		. . . . SPRING, Compass card holder	1	4-693
-15	159-53018	*2	. . . BRACKET, Rear view mirror and standby compass support	1	4-693
-16	No Number		. . KIT, First aid aeronautic (Medical Corps stock No. 9-196-650) (AERNO 45-7600)	1	4-693
-17	171-53103	*1	. . CASE ASSY, Airplane data (supersedes 53027)	1	4-693
-17A	171-53104		. . . SPRING, Data case cover	1	394-693
-18	159-53011		. . CUSHION ASSEMBLY, Pilot's seat (AC9116)	1	4-693
-19	159-53080		. . COVER ASSEMBLY, Baggage compartment dust	1	4-269
	159-53080-31		. . COVER ASSEMBLY, Baggage compartment dust	1	269-693
-20	159-311156-1		. . SEAL ASSEMBLY, Fus sta 140.5 flap torque tube opening LH	1	4-693
	159-311156-2		. . SEAL ASSEMBLY, Fus sta 140.5 flap torque tube opening RH	1	4-693
-21	AN6003-4A		. . TUBE ASSEMBLY, (GFAE) (AERNO 46-2644)	1	4-269
	AN6003T4A		. . TUBE ASSEMBLY, (AERNO 46-2644)	1	269-693
	AN6002-1		. . CONNECTOR ASSY, Demand mask to regulator tube external	2	269-693
	A3122-18-59		. . CLAMP, Hose (Tinnerman	1	4-693
-22	AN6018-1		. . HORN	1	4-693
-23	AN6020-1		. . BRACKET	2	4-693
-24	159-53037		. . TUBE, Pilot's relief horn to coupling	2	4-693
-25	AN742D12C		. . CLAMP	2	4-693
-26	159-53064		. . SPRING, Pilot's relief tube return	2	4-693
-27	159-53036-13		. . LINE, BLT to 159-31169 frame at sta 134.5 pilot's relief	1	4-268
	159-53036-17		. . LINE, BLT to 159-31169 frame at sta 134.5 pilot's relief	1	269-693
-28	159-53036-15		. . LINE, BLT 3/4 to 159-31187 frame at sta 155.218 pilot's relief	1	4-268
	159-53036-19		. . LINE, BLT 3/4 to 159-31187 frame at sta 155.218 pilot's relief	1	269-693
-29	159-53036		. . LINE, Fuselage station 156 to tee	1	4-693
-30	A3122-8-59		. . CLAMP, Speed (Tinnerman	3	5-4
-31	A3122-10-59		. . CLAMP, Speed (Tinnerman	3	4-693
-32	AN5803-1		. . CARD, (GFAE)	1	4-693
	159-53012		. RELIEF TUBE INSTL, Fuselage sta 49 1/2 to sta 168 RH side panel (see figure 66 for next assembly)	NP	4-693
-33	159-53036-5		. . LINE, Relief tube station 105 to station 156	1	4-693
-34	159-53036-9		. . LINE, Pilot's relief fuselage station 157 to sta 171	1	4-693
-35	AN6019-1		. . TEE, (AERNO 45-9600	1	4-693
-36	A3122-10-59		. . CLAMP, Speed (Tinnerman	3	4-693
-37	159-53038		. . COUPLING, Pilot's relief tube	1	4-693
	159-53013		. RELIEF TUBE INSTL, Fuselage sta 168 to sta 238 7/8 RH side panel (see figure 83 for next assembly)	NP	4-693
-38	159-53036-11		. . LINE, Pilot's relief sta 171 to exit fitting	1	4-693
-39	159-53039		TUBE ASSEMBLY, Exit relief (see figure 84)	Ref	

*1 Refer to T. O. 1T-28-50.
*2 Refer to T. O. 1T-28A-210.



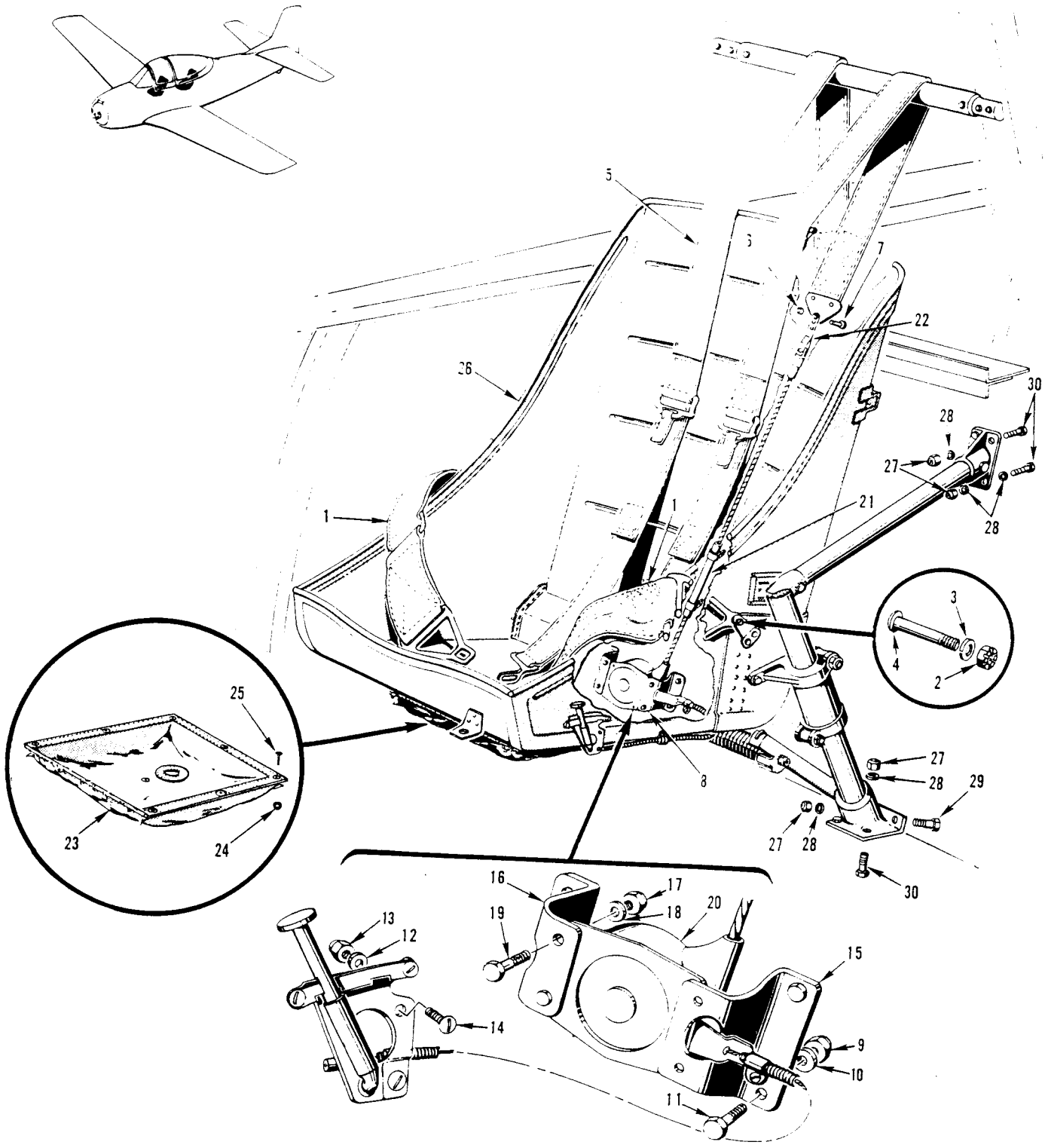
T-28A-4-53-1

FIGURE 136A - FUSELAGE FURNISHINGS COMPLETE

Revised 27 May 1955

FUSELAGE FURNISHINGS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
186A		FUSELAGE FURNISHINGS COMPLETE		
	174-53031	. FURNISHING EQUIPMENT INSTALLATION, Fuselage (see figure 50 for next assembly)	NP	694-
-1	174-53076	. . SEAL ASSEMBLY, Nose wheel well dust	1	694-
-2	Deleted			
-3	159-53102	. . HOLDER ASSEMBLY, Flight report (LH side)	1	694-
-4	159-53042	. . BOOT ASSEMBLY, Control stick forward	1	694-
-5	159-53043	. . BOOT ASSEMBLY, Control stick rear	1	694-
-6	01530	. . ASH TRAY ASSEMBLY (Grand Rapids Metalcraft)	2	694-
-7	174-53110	. . MIRROR ASSY, Pilot's rear view	1	694-
	ATTACHING PARTS			
-8	59FH832	. . NUT (Standard Pressed Steel Co)	2	694-
-9	AN515C8R8	. . SCREW	2	694-
	---*---			
-10	AN253-2-175	. . . PIN	1	694-
-11	174-53113	. . . SPRING, Compass card holder	1	694-
-12	174-53112	. . . HOLDER ASSY, Compass correction card	1	694-
	AN5600-1	. . . HOLDER ASSY, Correction card	1	694-
-13	AN365B1032	. . . NUT	2	694-
-14	AN960D10L	. . . WASHER	2	694-
-15	BB17-34A	. . . BOLT, 10-32 Corrosion resistant (North American)	1	694-
-16	P1088	. . . MIRROR (Liberty Mirror Division)(Model 619NA50NM)	1	694-
-17	174-53111	. . . BRACKET ASSY, Rear view mirror	1	694-
	121002XX	. . . FUSE CLIP (Littelfuse)	1	694-
-18	AN5823-1	. . CARD, Compass correction	1	694-
-19	No Number	. . KIT, First aid aeronautic (Medical Corps Stock Number 3-156-651) (AERNO 46-7800)	1	694-
-20	171-53103	. . CASE ASSY, Airplane data (supersedes 36G2873)	1	694-
-21	171-53104	. . . SPRING, Data case cover	1	694-
-22	159-53080-31	. . COVER ASSEMBLY, Baggage compartment dust	1	694-
-23	159-311156-1	. . SEAL ASSEMBLY, Fus sta 1-0.5 flap torque tube opening LH	1	694-
	159-311156-2	. . SEAL ASSEMBLY, Fus sta 1-0.5 flap torque tube opening RH	1	694-
-24	AN6003T4A	. . TUBE ASSY (AERNO 46-26-8)	1	694-
	AN6002-1	. . CONNECTOR ASSY, Demand mask to regulator tube external	1	694-
	A3122-10-59	. . CLAMP, Hose (Tinnerman)	1	694-
-25	AN8018-1	. . HORN	1	694-
-26	AN8020-1	. . BRACKET	1	694-
-27	159-53037	. . TUBE, Pilot's relief horn to coupling	1	694-
-28	AN742D12C	. . CLAMP	1	694-
-29	159-53064	. . SPRING, Pilot's relief tube return	1	694-
-30	159-53036-17	. . LINE, Buttock line 7 to 159-31169 frame at station 154.5 pilot's relief	1	694-
-31	159-53036-19	. . LINE, Buttock line 7 3/4 to 159-31167 frame at station 156.215 pilot's relief	1	694-
-32	159-53036-7	. . LINE, Fuselage station 156 to tee	1	694-
-33	A3122-8-59	. . CLAMP, Speed (Tinnerman)	1	694-
-34	A3122-10-59	. . CLAMP, Speed (Tinnerman)	2	694-
-35	159-53011	. . CUSHION ASSEMBLY, Pilot's seat (40D9116)	2	694-
	159-53012	. RELIEF TUBE INSTL, Fuselage sta -9 1/2 to sta 166 RH side panel (see figure 56 for next assembly)	NP	694-
-36	159-53036-5	. . LINE, Relief tube station 105 to station 156	1	694-
-37	159-53036-9	. . LINE, Pilot's relief fuselage station 157 to sta 171	1	694-
-38	AN8019-1	. . TEE (AERNO 46-9600)	3	694-
-39	A3122-10-59	. . CLAMP, Speed (Tinnerman)	1	694-
-40	159-53038	. . COUPLING, Pilot's relief tube	1	694-
	159-53013	. RELIEF TUBE INSTL, Fuselage sta 168 to sta 238 7/8 RH side panel (see figure 83 for next assembly)	NP	694-
-41	159-53036-11	. . LINE, Pilot's relief sta 171 to exit fitting	1	694-
-42	159-53039	TUBE ASSEMBLY, Exit relief (see figure 84)	Ref	



15.-53-351D

FIGURE 187 - PILOT'S AND CO-PILOT'S SEAT

FUSELAGE FURNISHINGS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
187	159-53008	SEAT INSTALLATION, Pilot's and co-pilot's (see figure 50. . . . for next assembly)	NP	
-1	44G5437	. BELT ASSY, Lap safety type B14 (AERNO 45-1705)(GFAE)(GFAE type B18 AERNO 45-1706(51H3977-1) may be substituted)	2	
	ATTACHING PARTS			
-2	AN364-428	. NUT.	4	
-3	AN960-416	. WASHER	4	
-4	AN24-14A	. BOLT	4	
	---*---			
-5	44G5443	. BELT ASSEMBLY, Safety shoulder harness type B15. . . . . (AERNO 45-1710) (GFAE)	2	4-268
	5023770	. HARNESS ASSEMBLY, Shoulder safety type G1 (GFAE) . . . . . (AERNO 45-2431) (Spec MIL-H5364)	2	269-
	ATTACHING PARTS			
-6	AN960-10L	. WASHER	2	
-7	AN393-13	. PIN	2	
	---*---			
-8	159-53019	. REEL ASSY, Shoulder harness inertia (used in aft cockpit). . (superseded by 159-53019-10. 159-53019 may be used interchangeably with 159-53019-10 until stock is exhausted)	1	
	159-53019-10	. REEL ASSY, Shoulder harness inertia (used in aft cockpit). . (supersedes 159-53019 for future procurement)	1	
	159-53019-3	. REEL ASSY, Shoulder harness inertia (used in forward cockpit) (superseded by 159-53019-13. 159-53019-3 may be used interchangeably with 159-53019-13 until stock is exhausted)	1	
	159-53019-13	. REEL ASSY, Shoulder harness inertia (used in fwd cockpit). . (supersedes 159-53019-3 for future procurement	1	
	ATTACHING PARTS			
-9	AN365-1032	. NUT.	8	
-10	AN960-10L	. WASHER	8	
-11	AN3-5A	. BOLT	8	
-12	AN960-10L	. WASHER	3	
-13	AN364-1032	. NUT	4	
-14	MAS621-5	. SCREW, Brazier head Phillips recess alloy steel 10-32. . . .	4	
	---*---			
-15	159-53025-5	. . SUPPORT, Shoulder harness inertia reel (superseded by . . 174-53035. 159-53025-5 may be used interchangeably with 174-53035 until stock is exhausted)	1	
	174-53035	. . SUPPORT, Shoulder harness inertia reel (supersedes. . . . 159-53025-5 for future procurement)	1	
-16	159-53025-6	. . SUPPORT, Shoulder harness inertia reel (aft cockpit). . .	1	
	159-53025-4	. . SUPPORT, Shoulder harness inertia reel (fwd cockpit). . .	1	
	ATTACHING PARTS			
-17	AN365-1032	. . NUT	4	
-18	AN960-10	. . WASHER.	4	
-19	AN3-6A	. . BOLT.	4	
	---*---			
-20	0-3903-101	. . REEL ASSEMBLY, Inertia (American Seating)(used on . . . . 159-53019 and 159-53019-3)	1	
	0-3903XX101	. . REEL ASSEMBLY, Inertia (American Seating)(used on . . . . 159-53019-10 and 159-53019-13)	1	
-21	159-53028	. . STOP, Shoulder harness inertia reel cable	2	
-22	159-53066	. . LINK ASSEMBLY, Shoulder harness inertia reel.	1	
-23	159-53040	. BAG ASSEMBLY, Seat equipment stowage	2	
	ATTACHING PARTS			
-24	AN365-832	. NUT.	14	
-25	AN515-8R7	. SCREW.	14	
	---*---			
-26	100-100	. SEAT ASSEMBLY, T28 trainer (Assy drawing 100-001)(Mfd. . . . Pastushin Industries, Inc.) (see figure 188 for detail breakdown)	2	
	ATTACHING PARTS			
-27	AN365-428	. NUT.	32	
-28	AN960-416	. WASHER	40	
-29	AN4-6A	. BOLT	8	
-30	AN4-7A	. BOLT	24	

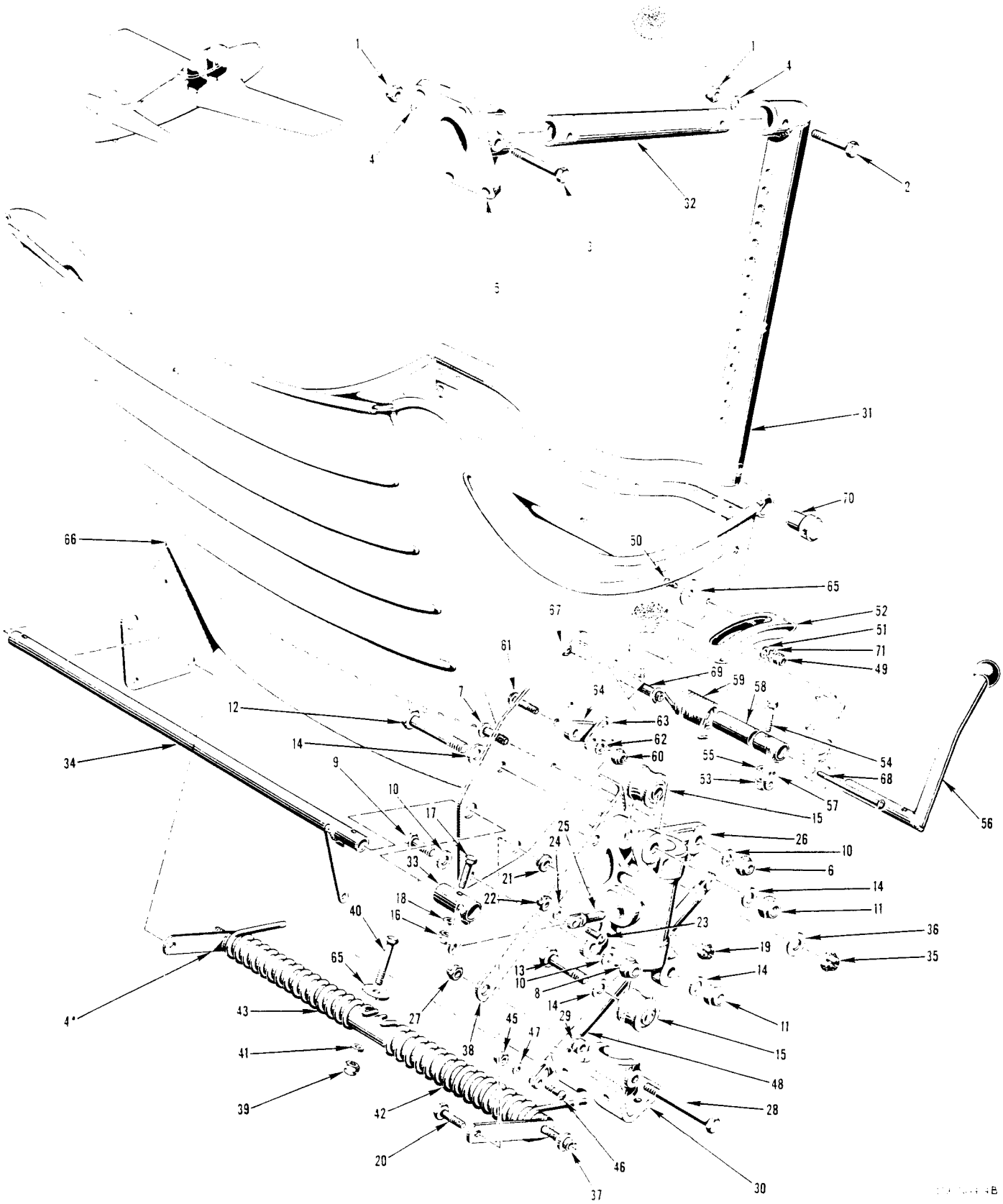
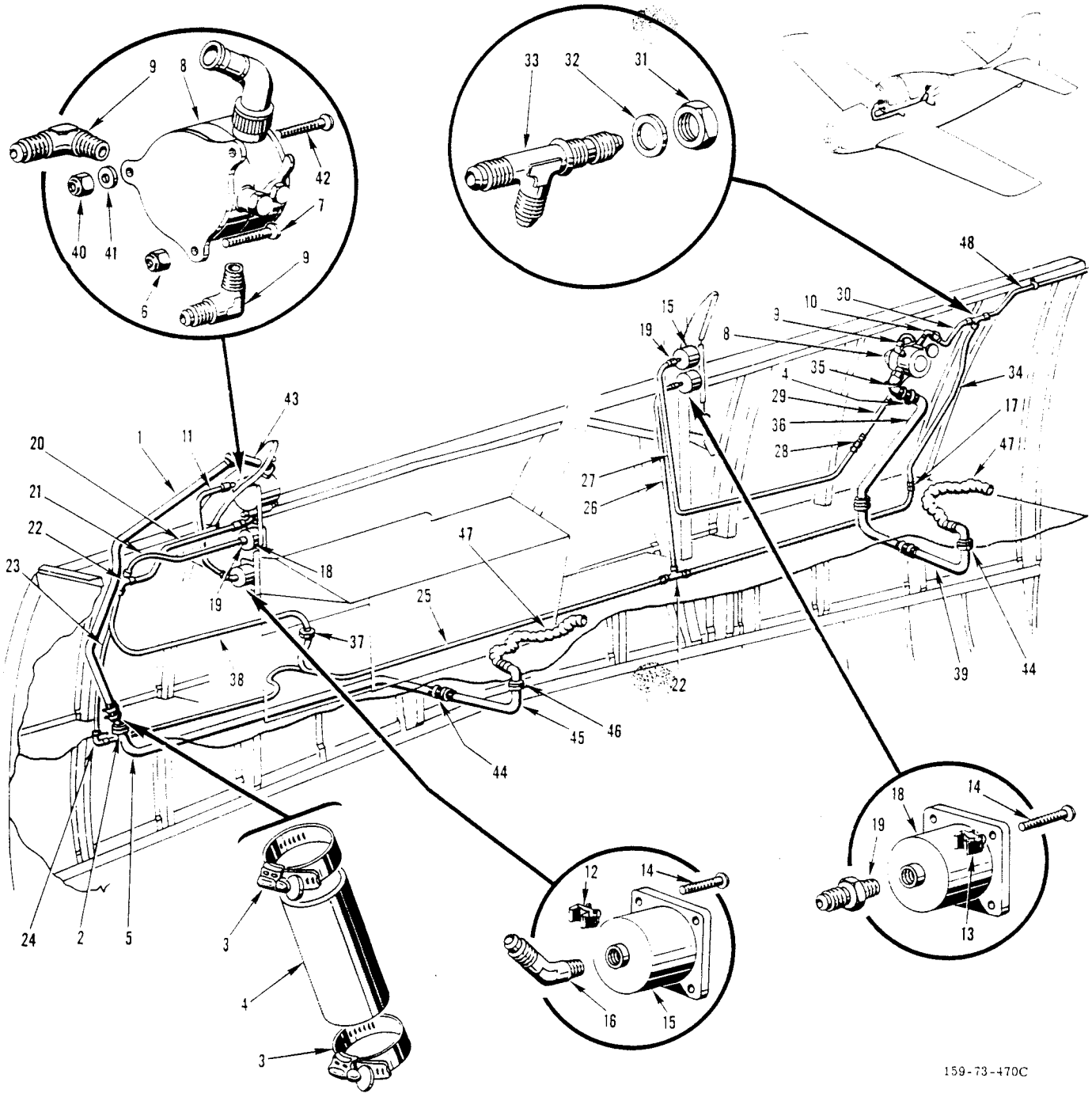


FIGURE 188 - PILOT'S AND CO-PILOT'S SEAT ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
166	100-100	SEAT ASSY, T-28 Trainer pilot and co-pilot Assy (Wg No. 100-001) (Vic Pastushin Industries, Inc.) (see figure 10 for next assembly)	Ref	
-1	AN365-428	. NUT	4	
-2	AN4-14A	. BOLT	4	
-3	AN4-18A	. BOLT	4	
-4	AN960-416	. WASHER	4	
-5	100-112	. BRACKET, Seat support top (Vic Pastushin Industries, Inc.)	2	
-6	AN365-428A	. NUT	2	
-7	AN365-832A	. NUT	2	
-8	AN4-22A	. BOLT	2	
-9	AN960-816L	. WASHER	2	
-10	AN365-1032	. NUT	4	
-11	AN4-12A	. BOLT	4	
-12	AN960-416	. WASHER	4	
-13	100-113	. BEARING ASSY, Seat adjustment (Vic Pastushin Industries, Inc.)	2	
-14	AN365-1032	. NUT	2	
-15	AN4-16A	. BOLT	2	
-16	AN960-416	. WASHER	2	
-17	100-114	. PIN, Seat adjustment (Vic Pastushin Industries, Inc.	2	
-18	100-115-1	. BRACKET, Slide LH (Vic Pastushin Industries, Inc.	1	
-19	100-115	. BRACKET, Slide RH (Vic Pastushin Industries, Inc.	1	
-20	AN365-1032	. NUT	2	
-21	100-116	. BUSHING, Shoulder (Vic Pastushin Industries, Inc. (green)	2	
-22	AN4-22A	. BOLT	2	
-23	100-117	. BRACKET, Seat support bottom (Vic Pastushin Industries, Inc.	2	
-24	100-118	. TUBE ASSY, Seat slide (Vic Pastushin Industries, Inc.	2	
-25	100-119	. TUBE, Seat support (Vic Pastushin Industries, Inc.	2	
-26	100-120	. ARM ASSY, Seat adjusting (Vic Pastushin Industries, Inc.)	1	
-27	100-121	. TUBE ASSY, Seat adjusting torque (Vic Pastushin Industries, Inc.)	1	
-28	AN960-8	. WASHER	2	
-29	AN960-816	. WASHER	2	
-30	100-122	. BUSHING, Washer tube (Vic Pastushin Industries, Inc. (green)	2	
-31	100-118-17	. ARM, Torque RH (Vic Pastushin Industries, Inc.	1	
-32	100-118ET	. ARM, Torque LH (Vic Pastushin Industries, Inc.	1	
-33	AN365-1032	. NUT	2	
-34	AN4-18A	. BOLT	2	
-35	AN960-416	. WASHER	2	
-36	100-101-1	. SPRING, Torque RH (Vic Pastushin Industries, Inc.)	1	
-37	100-101	. SPRING, Torque LH (Vic Pastushin Industries, Inc.	1	
-38	100-124	. TUBE ASSY, Seat raising torque (Vic Pastushin Industries, Inc.)	1	
-39	AN365-1032	. NUT	2	
-40	AN4-10A	. BOLT	2	
-41	AN960-10	. WASHER	2	
-42	100-127	. TUBE ASSY, Seat adjusting (Vic Pastushin Industries, Inc.)	1	
-43	AN365-1	. NUT	1	
-44	AN3062-1032R6	. SCREW	1	
-45	AN960-10L	. WASHER	1	
-46	100-107	. SHAFT, Seat adjusting arm (Vic Pastushin Industries, Inc.)	1	
-47	AN365-1032	. NUT	1	
-48	AN4-10A	. BOLT	1	
-49	AN960-10L	. WASHER	1	
-50	100-111	. HANDLE ASSY, Seat adjusting (Vic Pastushin Industries, Inc.	1	
-51	100-109	. PAWL ASSY, Seat adjusting (Vic Pastushin Industries, Inc.)	1	
-52	100-108	. SPACER, Seat adjusting (Vic Pastushin Industries, Inc.)	1	
-53	100-131	. SPRING, Seat adjusting handle (Vic Pastushin Industries, Inc.)	1	
-54	AN364-428	. NUT	4	
-55	AN4-14A	. BOLT	4	
-56	AN960-416	. WASHER	4	
-57	100-110-2	. LINK, Safety belt (Vic Pastushin Industries, Inc.)	2	
-58	100-126--	. SPACER, Safety belt (Vic Pastushin Industries, Inc.)	2	
-59	AN960-8	. WASHER	2	
-60	100-128	. BUCKET ASSEMBLY, Seat adjusting (Vic Pastushin Industries, Inc.)	1	
	100-129	. . BRACKET ASSY, Seat adjusting (Vic Pastushin Industries, Inc.)	1	
-61	AN365-832	. . . NUT	1	
-62	AN4B-4-4A	. . . SCREW	1	
-63	100-123--	. . . SPACER, Seat adjusting (Vic Pastushin Industries, Inc.)	1	
-70	100-130	. . BLOCK, Seat front end (Vic pastushin Industries, Inc.)	2	
-71	AN960B10	. WASHER	2	

FUSELAGE OXYGEN



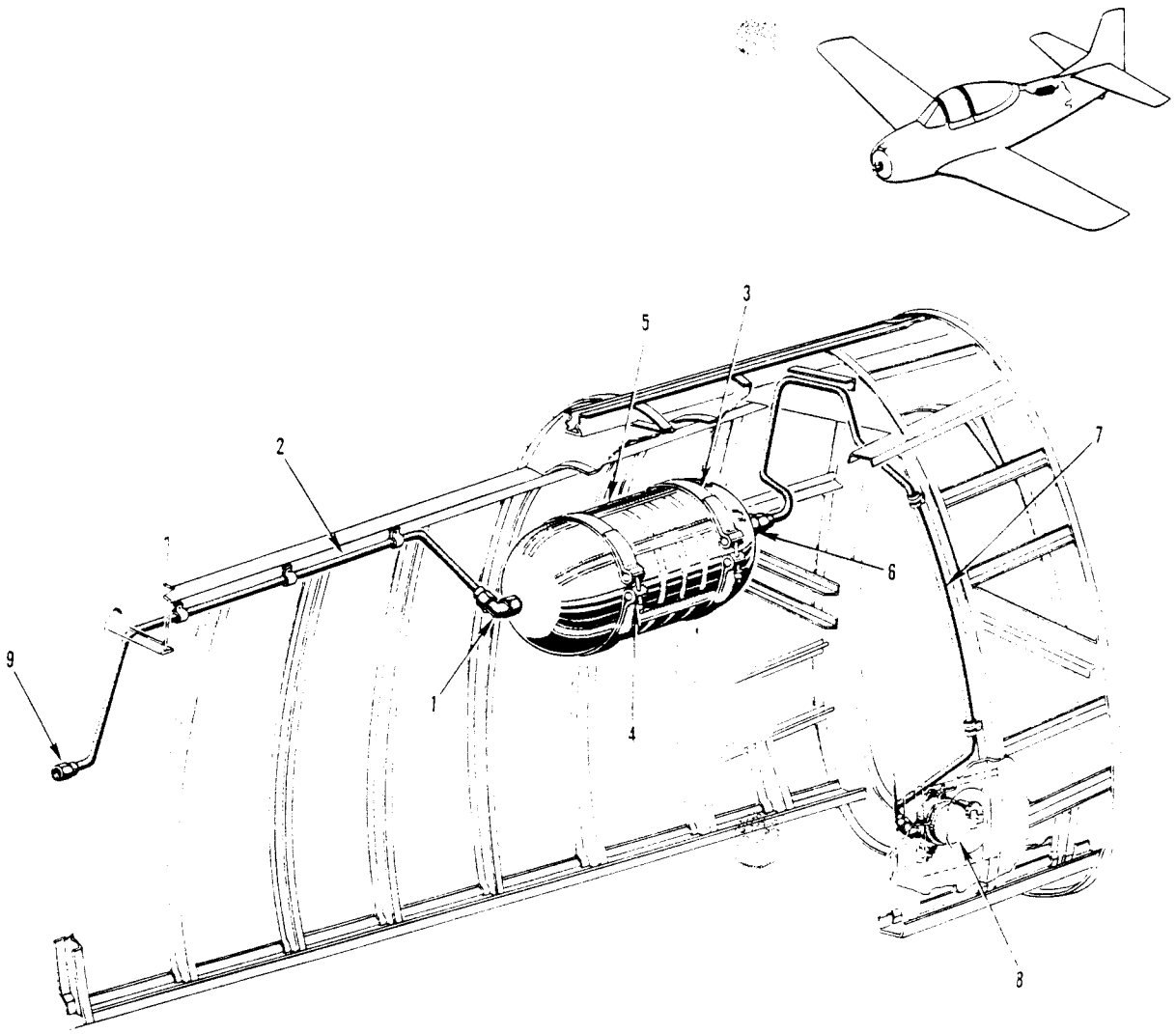
159-73-470C

POWER 159 - FUSELAGE FORWARD AND AFT SIDE PANEL OXYGEN SYSTEM EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
5			FUSELAGE FORWARD AND AFT SIDE PANEL OXYGEN SYSTEM EQUIPMENT		
	159-73220		. OXYGEN SYSTEM EQUIPMENT INSTALLATION, Fuselage side panel . . .	NF	--268
			see Figure 41 for next assembly		
	159-73221		. OXYGEN SYSTEM EQUIPMENT INSTALLATION, Fuselage side panel . . .	NF	269-
			see Figure 41 for next assembly		
-1	159-73224-21		. . LINE ASSEMBLY, Fwd regulator to intermediate breather . . .	1	--30
	159-73224-41		. . LINE ASSEMBLY, Fwd regulator to intermediate breather . . .	1	31-268
	159-73224-43		. . LINE ASSEMBLY, Fwd regulator to intermediate breather . . .	1	269-
-2	AN931-4-020		. . GROMMET	2	
-3	AN737-3-		. . CLAMP	4	
	159-73241-1		. . TUBE, Oxygen regulator to breather line	2	

FUSELAGE OXYGEN (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
189-5	159-73325-29	. .	LINE ASSEMBLY, Forward intermediate breather	1	4-80
	159-73325-43	. .	LINE ASSEMBLY, Forward intermediate breather	1	81-268
	159-73325-61	. .	LINE ASSEMBLY, Forward intermediate breather	1	269-393
	159-73325-71	. .	LINE ASSEMBLY, Forward intermediate breather	1	394-
-6	AN365-1032	. .	NUT (Forward regulator only)	3	
-7	AN520-10R10	. .	SCREW	6	
-8	AN6004	. .	REGULATOR ASSY, Diluter demand oxy (DFAE) AERNO 46-2350) (Arc Equip. No. 3-511-214 or 3-521-306 should be used)	2	4-268
	AN6004-	. .	REGULATOR ASSY, Diluter demand oxygen (DFAE)	2	269-393
	[illegible]	. .	REGULATOR ASSY, Diluter demand oxy (Arc Equip. (Arc Equip. No. AN6004-1 [illegible] have been reprocessed & meet req for Spec [illegible] may be used & Alar Prod. Still may be used.)	2	394-
-9	AN822-6D	. .	ELBOW	3	
-10	AN816-6D	. .	NIPPLE	1	4-80,269-
	AN822-6D	. .	ELBOW	1	81-268
-11	159-73325-19	. .	LINE ASSY, Forward regulator to flow indicator	1	
-12	AN338-032-375	. .	NUT (Tinnerman)	8	
-13	AN338-032-062	. .	NUT (Tinnerman)	8	
-14	AN515R8R10	. .	SCREW (American Screw Company)	16	
-15	AN6128-1	. .	INDICATOR ASSEMBLY, Oxygen flow (DFAE) AERNO 46-1600 (Type AT Spec 24-27368 may be substituted	2	--268
	AN6069-1	. .	INDICATOR ASSEMBLY, Oxygen flow	2	269-
-16	AN823-6D	. .	ELBOW	1	
-17	AN931A6D13	. .	GROMMET	1	
-18	AN6021-1A	. .	GAGE ASSY, Panel mounting low press. oxygen (DFAE) AERNO 46-1-00 (Type AT Spec 24-27368 may be sub)	2	--268
	AN6021-1A	. .	GAGE ASSY, Panel mounting low press. oxygen (Aeragage No [illegible] may be used)	2	269-
-19	AN816-6D	. .	NIPPLE	3	
-20	159-73325-15	. .	LINE ASSY, Tee to fwd regulator	1	
-21	159-73325-17	. .	LINE ASSY, Tee to fwd pressure gage	1	
-22	AN824-6D	. .	TEE	2	
-23	159-73325-13	. .	LINE ASSEMBLY, Elbow to tee	1	--268
-24	AN821-6D	. .	ELBOW	1	--268
-25	159-73325-11	. .	LINE ASSEMBLY, Tee to elbow	1	--268
	159-73325-69	. .	LINE ASSEMBLY, Tee to floor union	1	269-693
	159-73325-[illegible]	. .	LINE ASSEMBLY, Tee to floor union	1	694-
-26	159-73325-25	. .	LINE ASSEMBLY, Tee to aft pressure gage	1	--268
	159-73325-63	. .	LINE ASSEMBLY, Tee to aft pressure gage	1	269-693
	159-73325-77	. .	LINE ASSEMBLY, Tee to union	1	694-
	159-73325-79	. .	LINE ASSEMBLY, Union to instrument	1	694-
	AN815-4D	. .	UNION	1	694-
-27	159-73325-7	. .	LINE ASSY, Union to aft flow indicator	1	--80
	159-73325-33	. .	LINE ASSY, Union to aft flow indicator	1	81-268
	159-73325-[illegible]	. .	LINE ASSY, Union to aft flow indicator	1	269-
-28	AN815-6D	. .	UNION	1	
-29	159-73325-23	. .	LINE ASSEMBLY, Aft regulator to union	1	4-80
	159-73325-37	. .	LINE ASSEMBLY, Aft regulator to union	1	81-268
	159-73325-65	. .	LINE ASSEMBLY, Aft regulator forward to union	1	269-
-30	159-73325-21	. .	LINE ASSEMBLY, Tee to aft regulator	1	4-80
	159-73325-35	. .	LINE ASSEMBLY, Tee to aft regulator	1	81-
-31	AN824-6D	. .	NUT	1	
-32	AN960D516	. .	WASHER	1	
-33	AN824-6D	. .	TEE	1	
-34	159-73325-9	. .	LINE ASSEMBLY, Bulkhead tee to tee	1	4-268
	159-73325-53	. .	LINE ASSEMBLY, Bulkhead tee to tee	1	269-693
	159-73325-73	. .	LINE ASSEMBLY, Bulkhead tee to tee	1	694-
-35	29E134-24A	. .	GROMMET (United-Carr)	1	
-36	159-73325-31	. .	LINE ASSEMBLY, Aft regulator to breather	1	4-80
	159-73325-39	. .	LINE ASSEMBLY, Aft regulator to breather	1	81-268
	159-73325-57	. .	LINE ASSEMBLY, Aft regulator to breather	1	269-
-37	AN832-5D	. .	UNION	1	269-
	AN924-5D	. .	NUT	1	269-
	AN960D816	. .	WASHER	1	269-
-38	159-73325-61	. .	LINE ASSEMBLY, Floor union to tee	1	269-
	159-73331	.	OXYGEN SYS EQUIP, INSTL, Fus fwd (see fig. 51 for next assy)	NP	4-268
	[illegible]-73331	.	OXYGEN SYS EQUIP, INSTL, Fus fwd (see fig. 51 for next assy)	NP	269-
-39	159-73306	. .	LINE ASSEMBLY, Oxygen breather aft	1	4-268
	159-73306-11	. .	LINE ASSEMBLY, Oxygen breather aft	1	269-
-40	AN365-1032	. .	NUT	1	4-268
-41	AN960D10	. .	WASHER	1	4-268
-42	AN520-10R10	. .	SCREW	1	4-268
-43	159-73314-5	. .	TUBE, Oxy reg to breather line (whn exh use 159-73320)	1	4-268
	159-73320	. .	TUBE, Oxy reg to breather line (use 159-73314-5 untl exh)	1	4-268
	159-73314-7	. .	TUBE, Oxy reg to breather line (whn exh use 200-73315)	1	269-
	200-73315	. .	TUBE, Oxy reg to breather line (use 159-73314-7 untl exh)	1	4-268
-44	159-73314-3	. .	TUBE, Oxy reg to breather line (whn exh use 200-73314)	2	
	200-73314	. .	TUBE, Oxy reg to breather line (use 159-73314-3 untl exh)	1	4-268
	AN737-34	. .	CLAMP	6	
-45	159-73304	. .	LINE ASSY, Oxygen breather	1	4-268
	159-73304-11	. .	LINE ASSY, Oxygen breather	1	269-
-46	AN931-14S22	. .	GROMMET	1	
-47	AN6003-4A	TUBE ASSY (see 159-53031 furnishings instl fig. 186)		Ref	
-48	For continuation of oxygen equipment see figure 189A				



159-73-960

FIGURE 189A - FUSELAGE REAR OXYGEN SYSTEM EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
189A	159-73332	OXYGEN SYS EQUIP. INSTL, Fus rear (see Fig. 83 for next assy) .	NP	--268
	159-73332-30	OXYGEN SYS EQUIP. INSTL, Fus rear (see Fig. 83 for next assy) .	NP	269-
-1	AN822-5--D	. ELBOW	1	
-2	159-73325-47 *1	. LINE ASSY, Oxygen cylinder to bulkhead tee	1	
-3	159-73312-20 *1	. STRAP ASSEMBLY, Type G1 oxygen cylinder support	2	
-4	420-1.000-12.625S	. . CLAMP, Oxygen cyl strap (Marman) (Utility Tool and Die Mfg Co U10-.625-2.000S may be used)	1	
-5	No Number	. CYLINDER ASSY, Oxy type G1 (GFAE) (Spec 34-40321) (AERNC 46-1250) .	1	4-268
	No Number	. CYLINDER ASSY, Oxygen type G1 (Spec 34---0321) (AERNC 46-1250) .	1	269-
-6	AN816-5--D	. NIPPLE	1	4-268, 309-
	AN822-5--D	. ELBOW	1	269-308
-7	159-73325-31 *1	. LINE ASSY, Filler valve to oxygen cylinder	1	4-268
	159-73325-45	. LINE ASSY, Filler valve to oxygen cylinder	1	269-308
	159-73325-69	. LINE ASSY, Filler valve to oxygen cylinder	1	309-
-8	159-73308	SUPPORT ASSEMBLY, Oxygen filler valve complete (see Fig. 83) . .	Ref	
-9	For continuation of oxygen equipment see figure 189			
	*1 Refer to T. O. 1T-28-50.			

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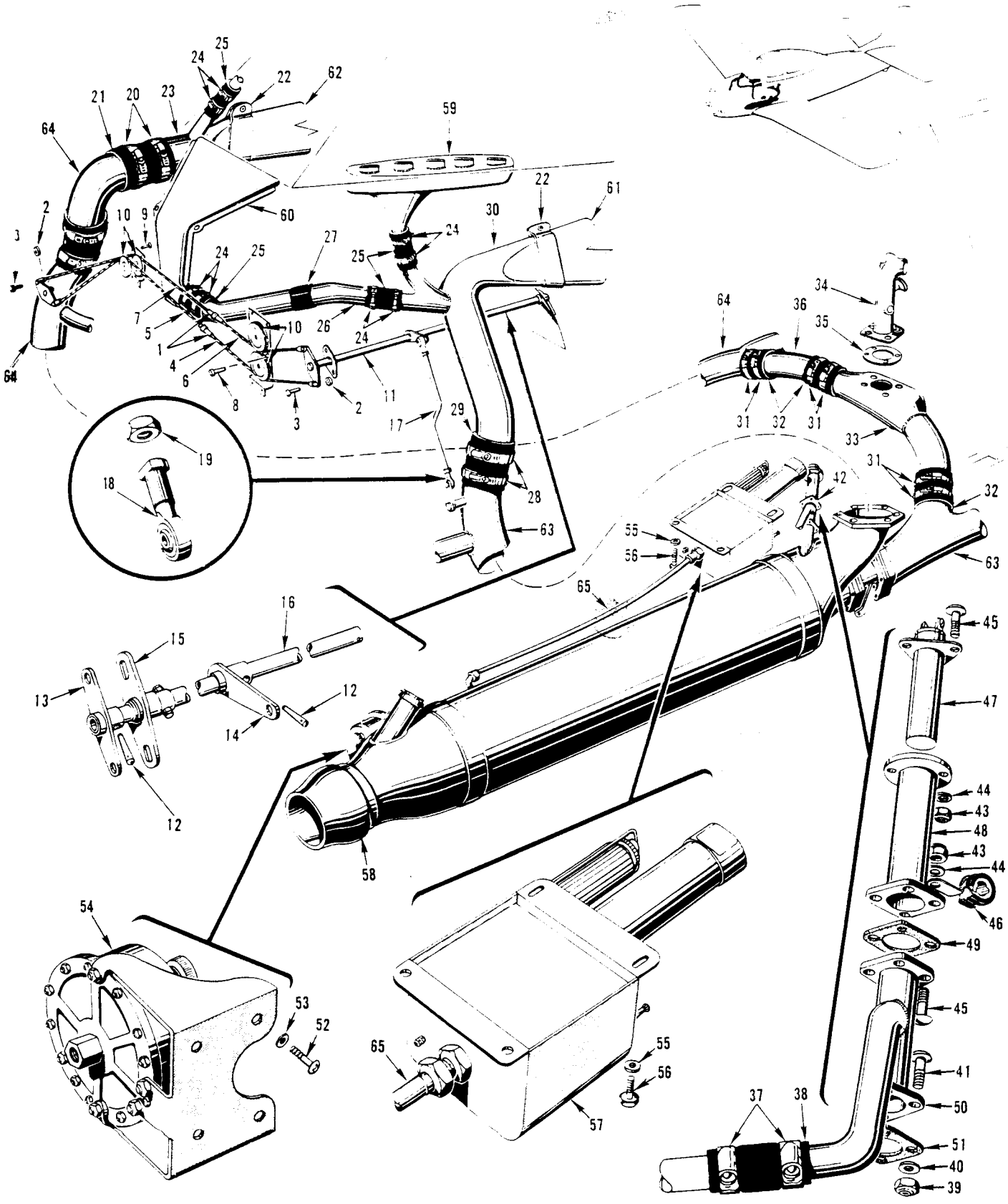


B-346B

FIGURE 190 - FUSELAGE STATION 44 1/2 TO 165 HEAT AND VENT SYSTEM EQUIPMENT

FUSELAGE HEAT AND VENT (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
190	159-53331	HEAT AND VENT SYSTEM EQUIPMENT INSTL, Fuselage sta 49 1/2 to 168 (see figure 51 for next assembly)	NP	
-1	AN155-8S	. BARREL	2	
-2	AN960D10	. WASHER	4	
-3	AN393-9	. PIN	4	
-4	159-53526-15	. CABLE ASSY, Heat and vent system defroster control	1	
-5	159-53526-13	. CABLE ASSY, Heat and vent system defroster control	1	
-6	159-53526-11	. CABLE ASSY, Heat and vent system defroster control	1	
-7	159-53526-17	. CABLE ASSY, Heat and vent system defroster control	1	
-8	MAS427K8	. PIN, Pulley guard	1	
-9	MAS427K13	. PIN, Pulley guard	1	
-10	AN210-1A	. PULLEY	4	
-11	159-53542	. ROD ASSY, Heat and vent defrost control torque	1	
-12	159-53574-3	. . PIN, Heat and vent system emergency control fitting taper handle (supersedes AN515-6R12)	2	
-13	159-53540	. . ARM ASSY, Heat and vent system defrost control cable	1	
-14	159-53541	. . ARM ASSY, Heat and vent system defrost control rod	1	
-15	159-53555	. . BEARING ASSY, Heat and vent sys defrost torque snaft fwd	1	
-16	159-53542-9	. . ROD ASSY, Heat and vent defrost control torque	1	
-17	159-53506-9	. ROD ASSY, Heat and vent sys cockpit heater temp control	1	
-18	F34-14	. . BEARING ASSY, Thrust spherical rod end (Heim)	2	
-19	AN316-4R	. . NUT	2	
-20	AN737-74	. CLAMP	6	
-21	159-53325-6	. CONNECTOR, Heat and vent system air duct	1	
-22	159-53559	. CLAMP ASSY, Heat and vent sys windshield bow line defrost duct	2	
-23	159-53553	. DUCT ASSY, Heat and vent sys RH defroster fuselage sta 47 1/2 to sta 69 15/32	1	
-24	AN737-44	. CLAMP	3	
-25	159-53325-3	. CONNECTOR, Heat and vent system air duct	4	
-26	159-53529-19	. LINE, Main LH defrost duct to center windshield defrost outlet	1	
-27	3H8-60-5	. HOSE (North American	1	11-60
-28	AN737-91	. CLAMP	2	
-29	159-53325-7	. CONNECTOR, Heat and vent system air duct	1	
-30	159-53521	. DUCT ASSY, Heat and vent system LH defrost & foot outlet supply	1	
-31	AN737-98	. CLAMP	3	
-32	159-53325-8	. CONNECTOR, Heat and vent system air duct	3	
-33	159-53385	. DUCT ASSY, Heat and vent sys RH and rear foot outlet supply complete	1	
-34	No Number	. AFT COCKPIT HEAT AND VENT SYSTEM FOOT OUTLET (see figure 195 for detail breakdown)	NP	
-35	159-53357	. GASKET, Heat and vent system floor connection	2	
-36	159-53377	. DUCT, Heat and vent system RH supply cross over	1	
-37	AN737-38	. CLAMP	2	
-38	159-53325-9	. CONNECTOR, Heat and vent system air duct	1	
-39	AN365-1032	. NUT	4	
-40	AN960D10	. WASHER	4	
-41	AN520-10R8	. SCREW	4	
-42	159-53595	. OUTLET ASSY, Heat & vent sys heater cycling thermoswitch air	1	
-43	AN365-1032	. . NUT	7	
-44	AN960-10L	. . WASHER	7	
-45	AN521-10R10	. . SCREW	2	
-46	A31114-2	. . CLAMP (Tinnerman)	1	
-47	18420-0-110	. . THERMOSWITCH ASSEMBLY (Fenwal)	1	
-48	159-53592	. . HOUSING, Heat and vent sys heater cycling thermoswitch	1	
-49	159-53593	. . GASKET, Heat and vent sys heater cycling thermoswitch housing	1	
-50	159-53594	. . ELBOW ASSY, Heat and vent system heater cycling thermo-switch housing	1	
-51	159-53593	. GASKET, Heat & vent sys heater cycling thermoswitch housing	1	
-52	AN515-8R8	. SCREW	4	
-53	AN960D8	. WASHER	4	
-54	PG308AS12	. SWITCH ASSY, Air pressure (Minneapolis-Honeywell)	1	
-55	AN960D10	. WASHER	4	
-56	AN3-3A	. BOLT	4	
-57	A55A00	. IGNITION ASSY, Aircraft heater (Surface Combustion)	1	
-58	159-53400	DUCT ASSY, Heat & vent sys cockpit heater attach fwd (fig. 63)	Ref	
-59	159-53530-1	OUTLET ASSY, Heat & vent sys side glass defroster LH (fig.82)	Ref	
	159-53530-2	OUTLET ASSY, Heat & vent sys side glass defroster RH (fig.82)	Ref	
-60	159-53535	OUTLET ASSY, Heat & vent sys center windshield defrost (fig.82)	Ref	
-61	159-53567-1	DUCT ASSY, Heat & vent sys defroster bow line frame attaching LH (figure 82)	Ref	
-62	159-53567-2	DUCT ASSY, Heat & vent sys defroster bow line frame attaching RH (figure 82)	Ref	
-63	159-53305	HEAT & VENT SYS EQUIP. INSTL, Fus sta 49 1/2 to 168 LH. (figure 191)	Ref	
-64	159-53306	HEAT & VENT SYS EQUIP. INSTL, Fus sta 49 1/2 to 168 RH. side panel (see figure 193)	Ref	
-65	W60A43	IGNITION LEAD (SURFACE COMBUSTION) (see figure 197)	Ref	

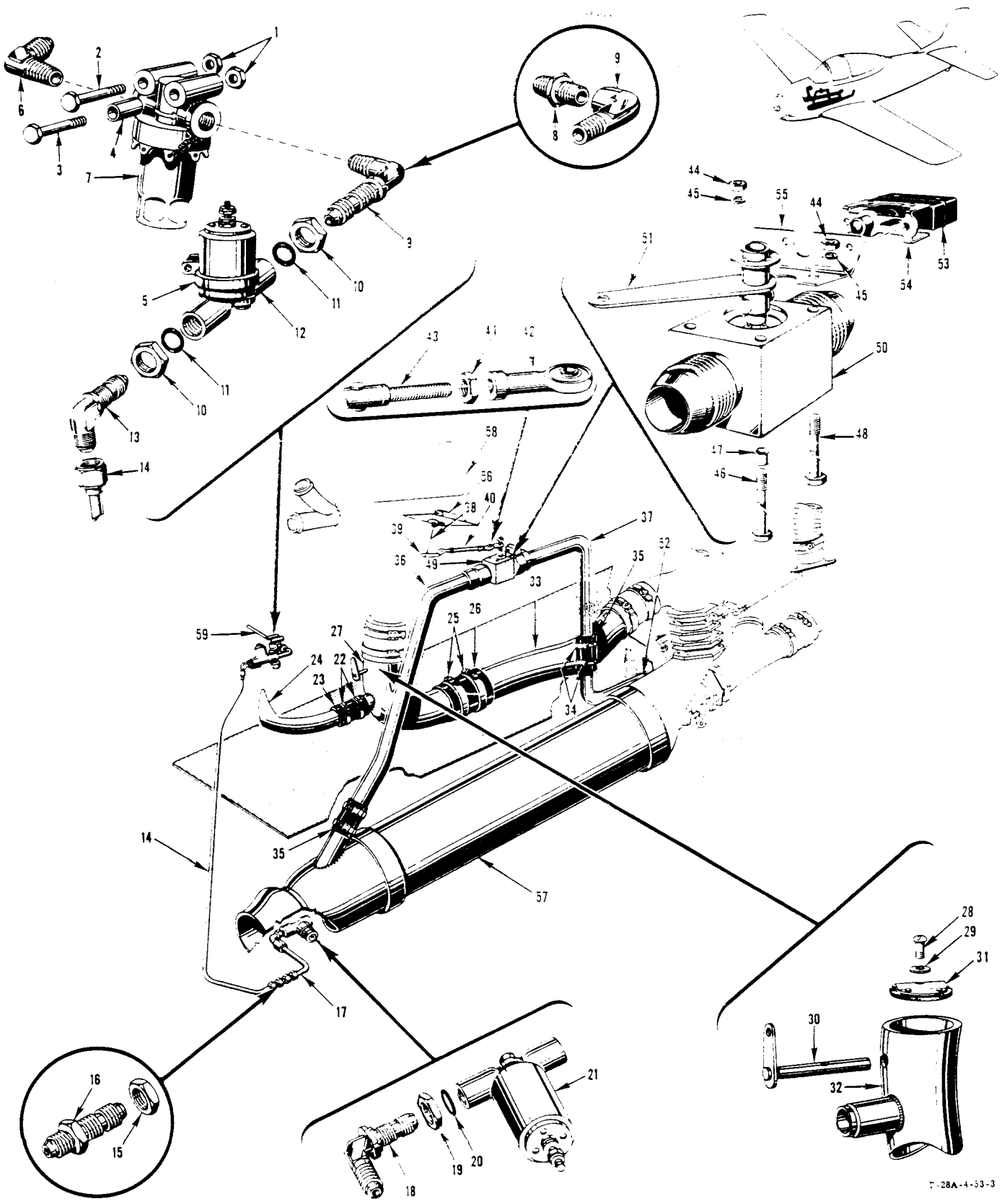


FIGURE 191 - FUSELAGE STATION -8 1 2 TO STATION 156 RH HEAT AND VENT SYSTEM EQUIPMENT

FUSELAGE HEAT AND VENT (Cont

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
191	159-53305	HEAT AND VENT SYSTEM EQUIPMENT INSTL, Fuselage station +9 1/2 to station 168 LH (see Figure 62 for next assembly)	NP	
	No Number	. FUSELAGE STATION 87 TO 168 LH HEAT AND VENT SYSTEM EQUIPMENT. see Figure 192 for detail breakdown.	NP	
-1	AN365-1032	. NUT	2	
-2	AN3-14A	. BOLT		
-3	AN3-24A	. BOLT		31-
	AN3-21A	. BOLT		41-
-4	4-83-10-26	. SPACER, Bolt North American		31-
	4-83-10-14	. SPACER, Bolt North American		41-
-5	AN7-2-22	. CLAMP		
-6	AN522--	. RIBBON		
-7	[illegible]	. FILTER ASSEMBLY (Skinner Sanifiers		
-8	AN911-10	. GROMMET		
-9	6-2181-30	. ELBOW (Parker Aircraft)		31-
	AN91--1	. ELBOW		41-30
-10	AN924---	. NUT	2	41-
-11	MS29512--	. GASKET	2	41-
-12	12054	. VALVE ASSEMBLY, Thermostatic (with solenoid) (Fenelon Aircraft)		31-
	12055	. VALVE ASSEMBLY, Thermostatic (with solenoid) (Fenelon Aircraft)		41-
-13	AN833--	. ELBOW		31-
	AN832--	. ELBOW		41-30
-14	159-53360--7	. LINE ASSY, Vent heat solenoid to firewall		
-14A	AN816-4R	. NUT		
-14B	AN932--	. UNION		
-15	159-53360-39	. LINE ASSY, Firewall to cycling solenoid		31-
-15A	159-53360-19	. LINE ASSY, Firewall to pushing solenoid		41-30
-16	AN833--	. ELBOW		31-
	AN832--	. ELBOW		41-30
-17	AN924---	. NUT	2	41-
-18	MS29512--	. GASKET	2	41-
-19	12054	. VALVE ASSEMBLY, Thermostatic (with solenoid) (Fenelon Aircraft)		31-
-19A	12055	. VALVE ASSEMBLY, Thermostatic (with solenoid) (Fenelon Aircraft)		41-30
-20	AN7-2--8	. CLAMP	2	
-20A	159-53325-3	. CONNECTOR, Heat and vent system LH aux cockpit vent complete.	1	
-20B	159-53360-	. OUTLET ASSY, Heat and vent sys LH aux cockpit vent complete	1	
-20C	AN7-2-11	. CLAMP	1	
-21	159-53325-7	. CONNECTOR, Heat and vent system air duct	1	
-22	159-53501	. DUCT ASSY, Heat and vent system LH defroster fuselage station 87 to 92 complete	1	
-22A	AN515-8R16	. . SCREW	1	
-22B	AN960D8	. . WASHER	1	
-22C	159-53546	. . DRAFT ASSY, Heat and vent system LH defroster valve	1	
-23	159-53515-10	. . GATE ASSY, Heat and vent sys defroster (Includes 159-53512 for failure prevention	1	
	159-53552	. . . SEAL, Heat and vent sys defroster gate used on 159-53515-10	2	
	159-53513	. . . SEAL, Heat and vent sys defroster gate used on 159-53515	1	
-32	159-53502	. . DUCT ASSY, Heat and vent sys LH defrost duct assy -- to 92	1	
-33	159-53509	. TUBE, Heat and vent system left hand defrost fuselage sta -- to 81 1/2 to 82 1/2	1	
-34	AN737-38	. CLAMP	1	
-35	159-53325-9	. CONNECTOR, Heat and vent system air duct	2	
-36	159-53529-13	. LINE ASSY, Heat and vent system thermoswitch and cockpit air. ventilating air duct to temperature control valve	1	
-37	159-53529-17	. LINE ASSY, Heat and vent system thermoswitch and cockpit air. temperature control valve to W.L. -2 3/4	1	
38	159-53512	. ROD ASSY, Heat and vent system heater temperature control . . torque	1	
-39	159-53508	. BEARING ASSY, Heat and vent system heater temp control rod	1	
	MS21257-016	. . BUSHING, Press fit flanged (North American	1	
--0	159-53506-9	. ROD ASSY, Heat and vent system cockpit heater temperature . . control	1	
--1	AN316--R	. . NUT	2	
--2	F3--14	. . BEARING ASSEMBLY, Unical spherical rod end (Heim)	2	
--3	13598-428	. . ROD END, Threaded (North American	2	
--4	AN365-1032	. NUT	2	
--5	AN960D10	. WASHER	2	
--6	AN3-22A	. BOLT	2	
--7	4-83-10-8	. SPACER, Bolt (North American	2	
--8	AN3-20A	. BOLT	2	
--9	159-53591	. VALVE ASSY, Heat and vent sys heater temperature control	1	
--9A	12-1348-7	. . VALVE ASSY, Metering (Parker Aircraft)	1	
--9B	159-53590	. . ARM ASSY, Heat and vent sys heater temp control valve	1	
--9C	159-53529-21	. LINE, Cold line from W.L. -1 to thermoswitch elbow assembly	1	
--9D	AN3216-4	. SWITCH	1	
--9E	MB2731A	. ACTUATOR (Micro Switch)	1	
--9F	159-53586	. SUPPORT, Heat and vent system heater control switch	1	
--9G	MBB76023	*1 . GUARD, Plastic	1	
-57	159-53307	HEATER INSTL, Heat and vent sys cockpit combustion (see fig. 197)	Ref	
-58	159-53521	DUCT ASSY, Heat and vent sys LH defrost and foot outlet supply (see Figure 190)	Ref	
-59	159--7040	OIL SYSTEM EQUIPMENT INSTALLATION (see Figure 247)	Ref	

*1 Refer to T. O. 1T-28A-505

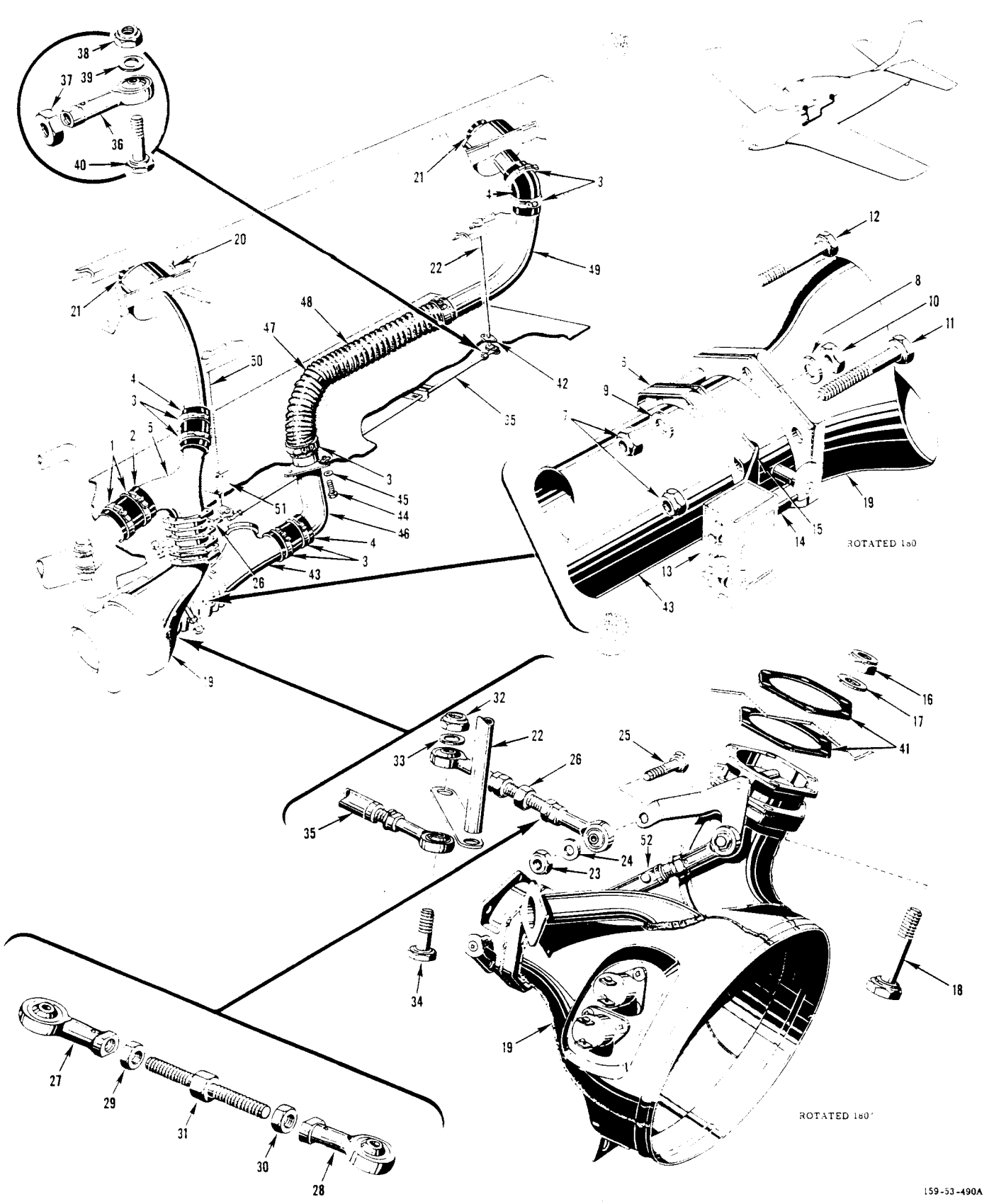


FIGURE 192 - FUSELAGE STATION 87 TO 168 LH HEAT AND VENT SYSTEM EQUIPMENT

FUSELAGE HEAT AND VENT (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
192	No Number	FUSELAGE STATION 87 TO 168 LH HEAT AND VENT SYSTEM EQUIPMENT .. (see figure 191 for next assembly)	NP	
-1	AN737-91	. CLAMP.	2	
-2	159-53325-7	. CONNECTOR, Heat and vent system air duct	1	
-3	AN737-56	. CLAMP.	3	
-4	159-53325-4	. CONNECTOR, Heat and vent system air duct	3	
-5	159-53349	. ELBOW ASSY, Heat and vent system LH supply floor connecting	1	
-6	159-53351	. GASKET, Heat and vent system LH supply floor connecting.	1	
-7	AN365-1032	. NUT.	6	
-8	AN936B10	. WASHER	6	
-9	AN960D10	. WASHER	6	
-10	AN315-3	. NUT.	6	
-11	581-14	. BOLT, Adjustment (North American).	6	
-12	AN3-14A	. BOLT	4	
-13	AN3210-1	. SWITCH	1	
-14	AN3166-1	. ACTUATOR	1	
-15	159-53337	. SUPPORT, Heat and vent system vent air control switch	1	
-16	AN365-1032	. NUT.	6	
-17	AN960D10	. WASHER	6	
-18	AN3-18A	. BOLT	6	
-19	159-53340	. DUCT ASSY, Heat and vent system main distributing complete (see figure 196 for detail breakdown)	1	
-20	AN520-10R8	. SCREW.	4	
-21	159-53470	. OUTLET ASSY, Heat and vent system pilot's side complete (aft) (see figure 194 for detail breakdown)	1	
	159-53470-20	. OUTLET ASSY, Heat and vent system pilot's side complete. (forward) (see figure 194 for detail breakdown)	1	
-22	159-53585	. ROD ASSEMBLY, Heat and vent emergency control torque	1	
-23	AN365-1032	. NUT.	1	
-24	AN960D10	. WASHER	1	
-25	AN3-6A	. BOLT	1	
-26	159-53578	. ROD ASSEMBLY, Heat and vent sys emergency shut-off control actuating	1	
-27	FB4--16	. . BEARING ASSY, Unibal spherical rod end (Heim)	1	
-28	FB4--16	. . BEARING ASSY, Unibal spherical rod end (Heim)	1	
-29	AN316-4L	. . NUT	1	
-30	AN316--R	. . NUT	1	
-31	MS21--4-17	. . TURNBUCKLE, Tank strap.	1	
-32	AN365-1032	. NUT.	1	
-33	AN960D10	. WASHER	1	
-34	AN3-13A	. BOLT	1	
-35	159-53342	. ROD ASSEMBLY, Heat and vent system forward to aft cockpit. main shut-off control	1	
-36	FB4--14	. . BEARING ASSY, Unibal spherical rod end (Heim)	2	
-37	AN316-4R	. . NUT	2	
-38	AN365-1032	. NUT.	1	
-39	AN960D10	. WASHER	1	
-40	AN3-6A	. BOLT	1	
-41	159-53351	. GASKET, Heat and vent system LH supply floor connecting.	2	
-42	159-53583	. BEARING ASSY, Heat and vent system emergency control rod lower	2	
	+B20B7-018	. . BUSHING, Press. fit flanged (North American).	1	
-43	159-53326	. DUCT ASSEMBLY, Heat and vent system LH tee	1	
-44	AN3-3A	. BOLT	3	
-45	AN960D10	. WASHER	3	
-46	159-53345	. TUBE ASSEMBLY, Heat and vent system LH rear side outlet. floor connecting	1	
-47	382-1-28	. CLIP ASSEMBLY, Line support (Adel Precision)	1	
-48	159-53525-5	. DUCT, Heat and vent system wire support.	1	
-49	159-53529-7	. LINE, Heat and vent system thermoswitch and cockpit air. station 119 1/2 LH rear elbow assembly to station 148 LH rear manifold assembly	1	
-50	174-53585	. ROD ASSY, Heat and vent system emergency control torque.	1	544-743
	159-53585	. ROD ASSY, Heat and vent emergency control torque	1	4-543, 744-
	53-028-125-0625	. . ROLL PIN (Esna Corp.)	1	544-743
-51	174-53587	. SUPPORT ASSY, Heat and vent system cockpit air control stop.	1	544-743
	174-53587-5	. . SPRING, Heat and vent system cockpit air control stop	1	544-743
-52	159-53506-15	ROD ASSEMBLY, Heat and vent system cockpit heater temperature control (see figure 196)	Ref	

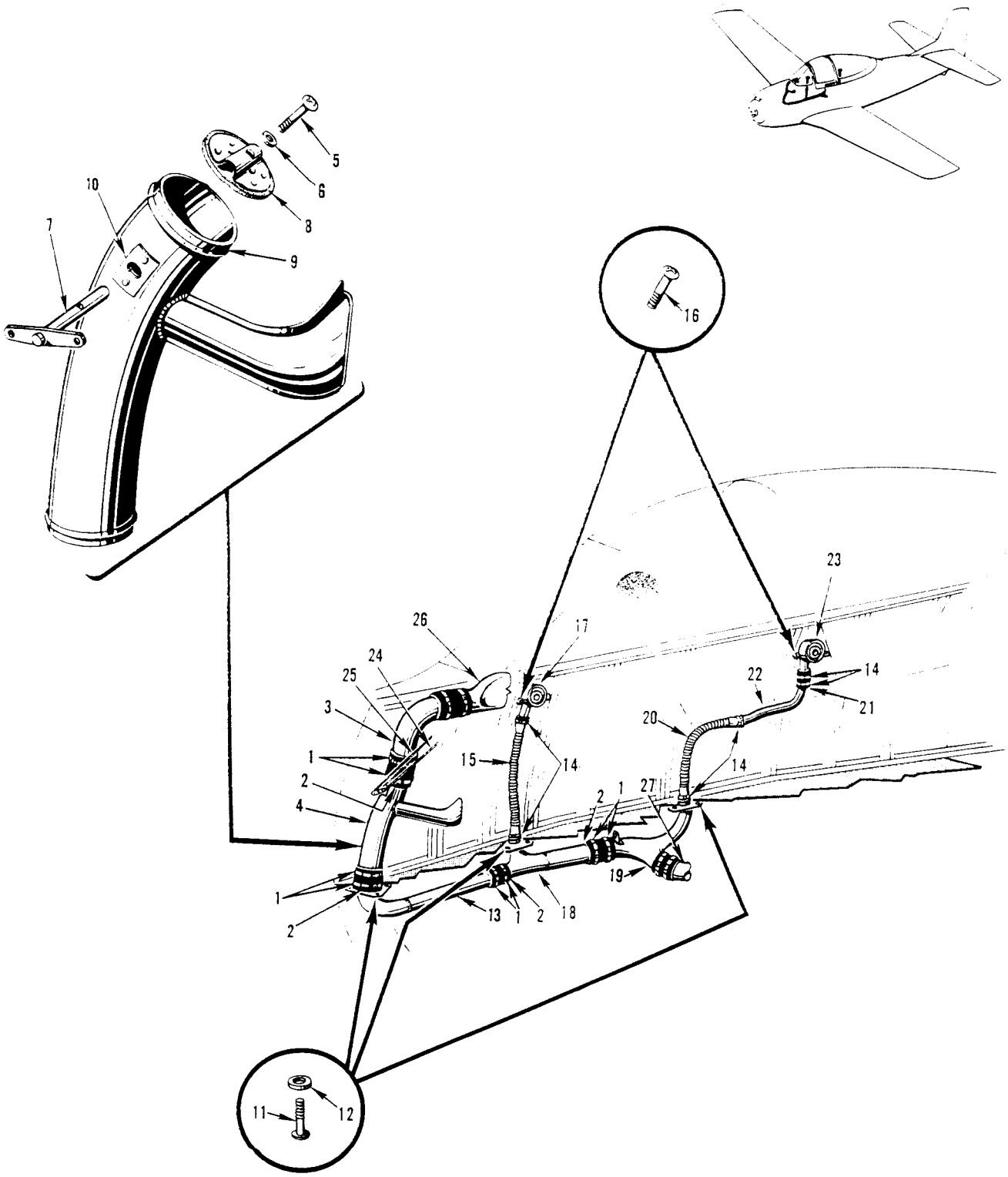
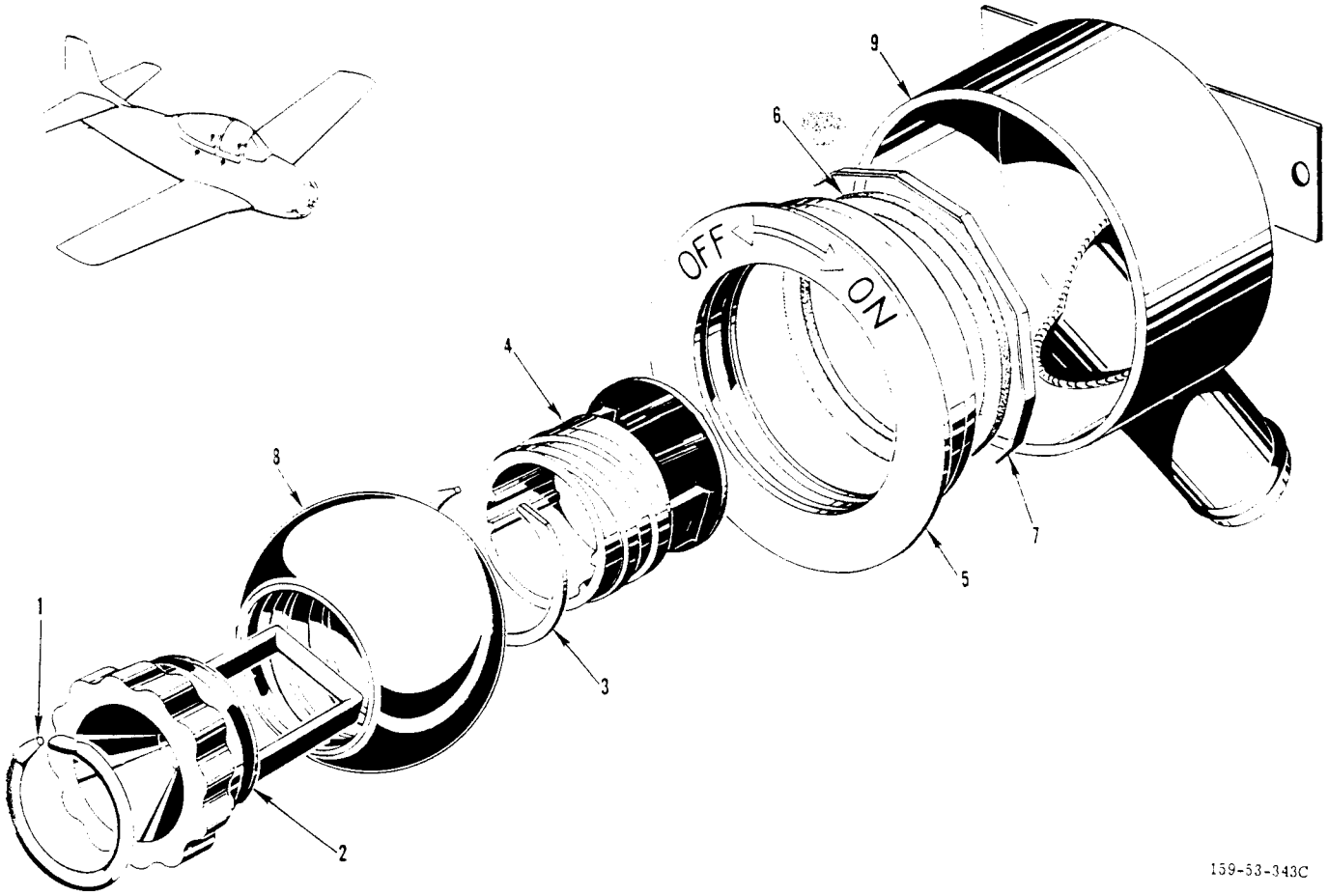


FIGURE 193 - FUSELAGE STATION 49 1/2 TO 168 RH SIDE PANEL HEAT AND VENT EQUIPMENT

FUSELAGE HEAT AND VENT (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
193	159-533[illegible]	HEAT AND VENT EQUIPMENT INSTALLATION, Fuselage station +9 1/2 to 168 RH side panel (see figure 58 for next assembly)	NP	4-268
	159-53306-10	HEAT AND VENT EQUIPMENT INSTALLATION, Fuselage station 49 1/2 to 168 RH side panel (see figure 58 for next assembly)	NP	269-
-1	AN737-91	. CLAMP	8	
-2	159-53325-7	. CONNECTOR, Heat and vent system air duct	4	
-3	159-53543	. ELBOW ASSEMBLY, Heat and vent system RH defrost supply complete	1	
-4	159-53536	. DUCT ASSEMBLY, Heat and vent system RH side defroster supply complete	1	
-5	AN515-8R13	. . SCREW	1	
-6	AN960D8	. . WASHER	1	
-7	159-53520	. . SHAFT ASSEMBLY, Heat and vent system RH defroster valve	1	
-8	159-53515-10	. . GATE ASSEMBLY, Heat and vent system defroster (supersedes 159-53515 for future procurement)	1	
	159-53552	. . SEAL, Heat & vent sys defroster gate used on 159-53515-10)	2	
	159-53513	. . . SEAL, Heat & vent sys defroster gate used on 159-53515)	1	
-9	159-53536-3	. . DUCT ASSEMBLY, Heat and vent system RH side defroster supply	1	
	159-53539	. . . ELBOW ASSEMBLY, Heat and vent system RH defrost supply	1	
-10	159-53522	. . . . BEARING, Heat and vent system defroster valve	2	
-11	AN520-10R10	. SCREW	9	
-12	AN960D10	. WASHER	9	
-13	159-53376	. DUCT ASSEMBLY, Heat and vent system RH forward main supply	1	
-14	AN737-69	. CLAMP	6	4-268
	AN737-66	. CLAMP	8	269-
-15	159-53525-3	. DUCT, Heat and vent system wire supported	1	
-16	AN520-10R10	. SCREW (Used on forward outlet)	4	
	AN3-3A	. BOLT (Used on aft outlet only)	1	
	AN960D10	. WASHER (Used on aft only)	1	
	AN365-1032	. NUT (Used on aft only)	1	
-17	159-53470-30	. OUTLET ASSEMBLY, Heat and vent system pilot's side complete (see figure 194 for detail breakdown)	1	
-18	159-53382	. DUCT ASSEMBLY, Heat and vent system RH side center section supply	1	
-19	159-53375	. DUCT ASSEMBLY, Heat and vent system RH aft main supply	1	4-268
	171-53380	. . DUCT ASSY, Heat and vent system RH aft tee (supersedes 159-53380)	1	4-268
	171-53380	. DUCT ASSEMBLY, Heat and vent RH aft tee.	1	269-
-20	159-53525	. DUCT, Heat and vent system wire supported.	1	4-268
	171-53355	. DUCT ASSY, Heat and vent system RH aft outlet supply	1	269-
-21	159-53325-5	. CONNECTOR, Heat and vent system air duct	1	4-268
	159-53325-5	. CONNECTOR, Heat and vent system air duct	2	269-
-22	159-53529-5	. LINE, Station 115 5/8 RH rear elbow assembly to station 140 15/16 RH rear manifold assembly	1	4-268
-23	159-53470-10	. OUTLET ASSEMBLY, Heat and vent system pilot's side complete. (see figure 194 for detail breakdown)	1	4-80
	159-53470-50	. OUTLET ASSEMBLY, Heat and vent system pilot's side complete. (see figure 194 for detail breakdown)	1	81-268
	159-53470-60	. OUTLET ASSEMBLY, Heat and vent system pilot's side complete. (see figure 194 for detail breakdown)	1	269-
-24	159-53526-17	CABLE ASSEMBLY, Heat and vent system defroster control. (figure 190)	Ref	
-25	159-53526-13	CABLE ASSEMBLY, Heat and vent system defroster control. (figure 190)	Ref	
-26	159-53558	DUCT ASSEMBLY, Heat and vent system RH defroster fuselage station 57 7/8 to station 69 15/32 (figure 190)	Ref	
-27	159-53377	DUCT, Heat and vent system RH supply cross over (figure 190).	Ref	

FUSELAGE HEAT AND VENT (Cont)



159-53-343C

FIGURE 194 - HEAT AND VENT SYSTEM PILOT'S SIDE OUTLET ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
194	159-53-70	OUTLET ASSEMBLY, Heat and vent system pilot's side complete . . . (see figure 192 for next assembly)	Ref	
	159-53-70-10	OUTLET ASSEMBLY, Heat and vent system pilot's side complete . . . (see figure 193 for next assembly)	Ref	-+-80
	159-53-70-50	OUTLET ASSEMBLY, Heat and vent system pilot's side complete . . . (see figure 193 for next assembly)	Ref	81-268
	159-53-70-60	OUTLET ASSEMBLY, Heat and vent system pilot's side complete . . . (see figure 193 for next assembly)	Ref	269-
	159-53-70-20	OUTLET ASSEMBLY, Heat and vent system pilot's side complete . . . (see figure 192 for next assembly)	Ref	
	159-53-70-30	OUTLET ASSEMBLY, Heat and vent system pilot's side complete . . . (see figure 193 for next assembly)	Ref	
	159-53-+0-3	. OUTLET ASSY, Heat and vent system pilot's side . . . . . (supersedes 159-53440)	1	
-1	171-53-66	. . RETAINER, Heat and vent system side outlet knob . . . . . (supersedes 159-53-66)	1	
-2	159-53-+2-3	. . KNOB, Heat and vent system pilot's side outlet . . . . . (supersedes 159-534-2)	1	
-3	159-53-61	. . STOP, Heat and vent system pilot's side outlet valve . . .	1	
-4	159-53-+7-3	. . VALVE, Heat and vent system pilot's side outlet shut-off . (supersedes 159-53+47)	1	
-5	159-53-60	. . RETAINER, Heat and vent system pilot's side outlet . . . . (used on 159-53440)	1	
	159-53-60-3	. . RETAINER ASSY, Heat and vent system pilot's side outlet . . (used on 159-53440-3)	1	
-6	159-53-62	. . RING, Heat & vent sys pilot's side outlet ball friction . .	2	
-7	159-53-65	. . SPRING, Heat and vent sys side outlet ball positioning . .	2	
-8	159-53-81	. . BALL, Heat and vent system pilot's side outlet	1	
-9	159-53-+9	. MANIFOLD ASSEMBLY, Heat and vent system LH aft side outlet . . (used on 159-53470)	1	
	159-53-+6	. MANIFOLD ASSEMBLY, Heat and vent system pilot's LH forward . . side outlet (used on 159-53-70-20)	1	
	159-53-+5	. MANIFOLD ASSEMBLY, Heat and vent system pilot's side . . . . . outlet RH aft (used on 159-53-70-10)	1	-+-80
	159-53-+9	. MANIFOLD ASSEMBLY, Heat and vent system pilot's side . . . . . outlet RH aft (used on 159-53470-60)	1	81-268
	171-53-+9	. MANIFOLD ASSEMBLY, Heat and vent system pilot's side . . . . . outlet RH aft (used on 159-53-70-60)	1	269-
	159-53-67	. MANIFOLD ASSEMBLY, Heat and vent system pilot's RH forward . . side outlet (used on 159-53470-30)	1	

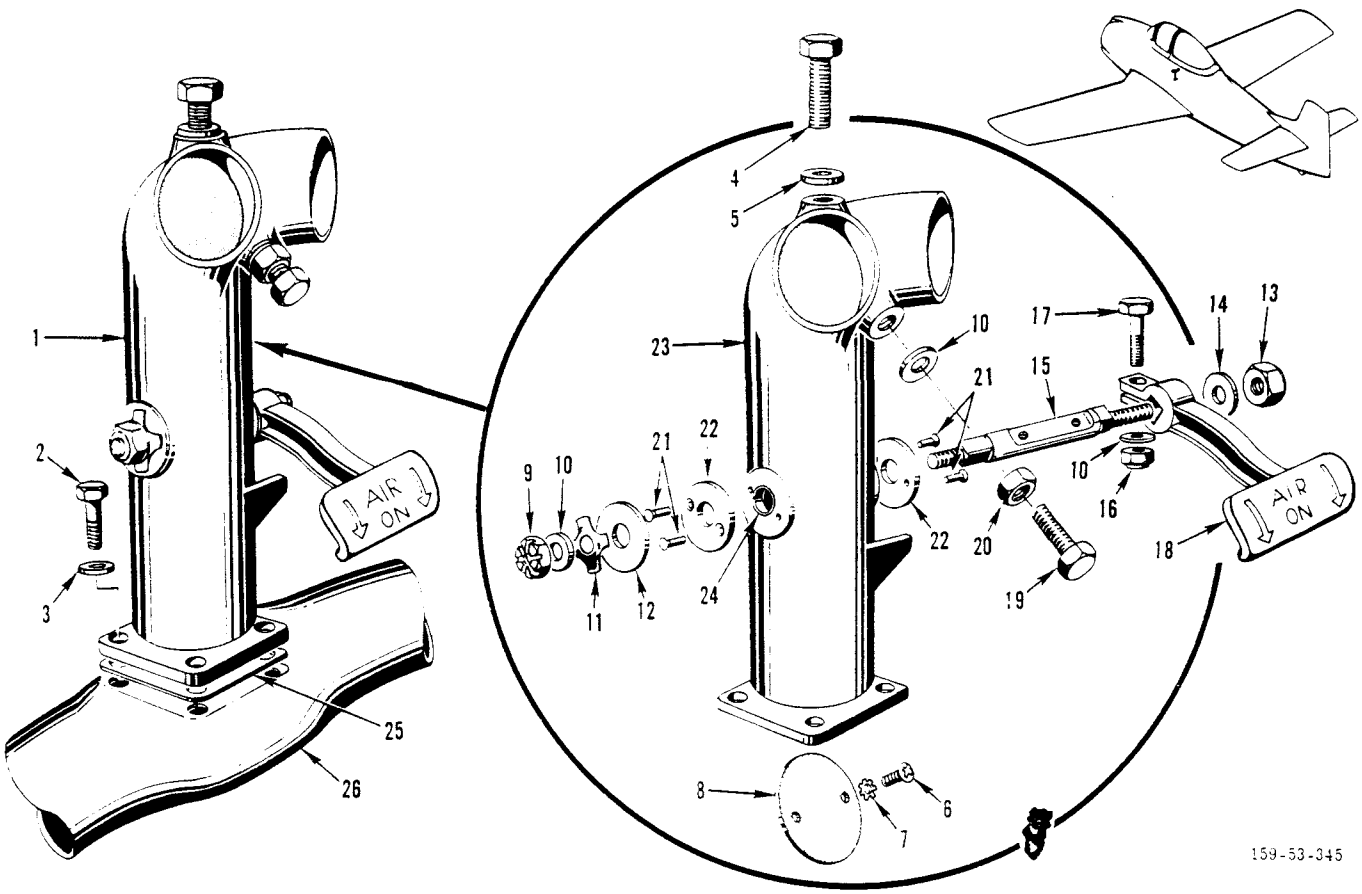


FIGURE 195 - AFT COCKPIT HEAT AND VENT FOOT OUTLET

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
195	No Number	AFT COCKPIT HEAT AND VENT FOOT OUTLET (see figure 190 for next assembly)	NP	
-1	159-53430	. OUTLET ASSY, Heat and vent system aft cockpit foot complete	1	
		ATTACHING PARTS		
-2	AN3-6A	. BOLT	4	
-3	AN960D10	. WASHER	4	
-4	5B2-6	. BOLT, Adjustment 1/4-28 (North American)	1	
-5	AN936B416	. WASHER	1	
		---*---		
-6	AN515-6R6	. . SCREW	2	
-7	AN936B6	. . WASHER	2	
-8	159-53427	. . GATE, Heat and vent system aft cockpit foot outlet. shut-off	1	
-9	AN310-4	. . NUT	1	
-10	AN960D416	. . WASHER	3	
-11	159-53432	. . SPRING, Heat and vent system rear foot outlet handle. positioning	1	
-12	159-53433	. . DISC, Heat and vent system rear foot outlet handle. friction (supersedes 2W1AL18-40-64)	1	
-13	AN365-428	. . NUT	1	
-14	2W1AL18-24-64	. . WASHER, Plain (North American)	1	
-15	159-53428	. . SHAFT, Heat and vent system aft cockpit foot outlet gate	1	
-16	AN365-1032	. . NUT	1	
-17	AN3-7A	. . BOLT	1	
-18	159-53429	. . HANDLE, Heat and vent system aft cockpit foot outlet. control	1	
-19	5B2-7	. . BOLT, Adjustment 1/4-28 (North American)	1	
-20	AN316-4R	. . NUT	1	
-21	AN426AD3-6	. . RIVET	4	
-22	159-53431	. . WASHER, Heat and vent system rear foot outlet handle. friction	2	
-23	159-53425	. . OUTLET ASSEMBLY, Heat and vent system aft cockpit floor	1	
-24	4B19B6-012	. . . BUSHING, Press fit plain (North American)	2	
-25	159-53352	. GASKET, Heat and vent rear foot outlet upper floor	1	
-26	159-53385	DUCT ASSY, Heat and vent system RH rear foot outlet supply. complete (figure 190)	Ref	

FUSELAGE HEAT AND VENT (Cont)

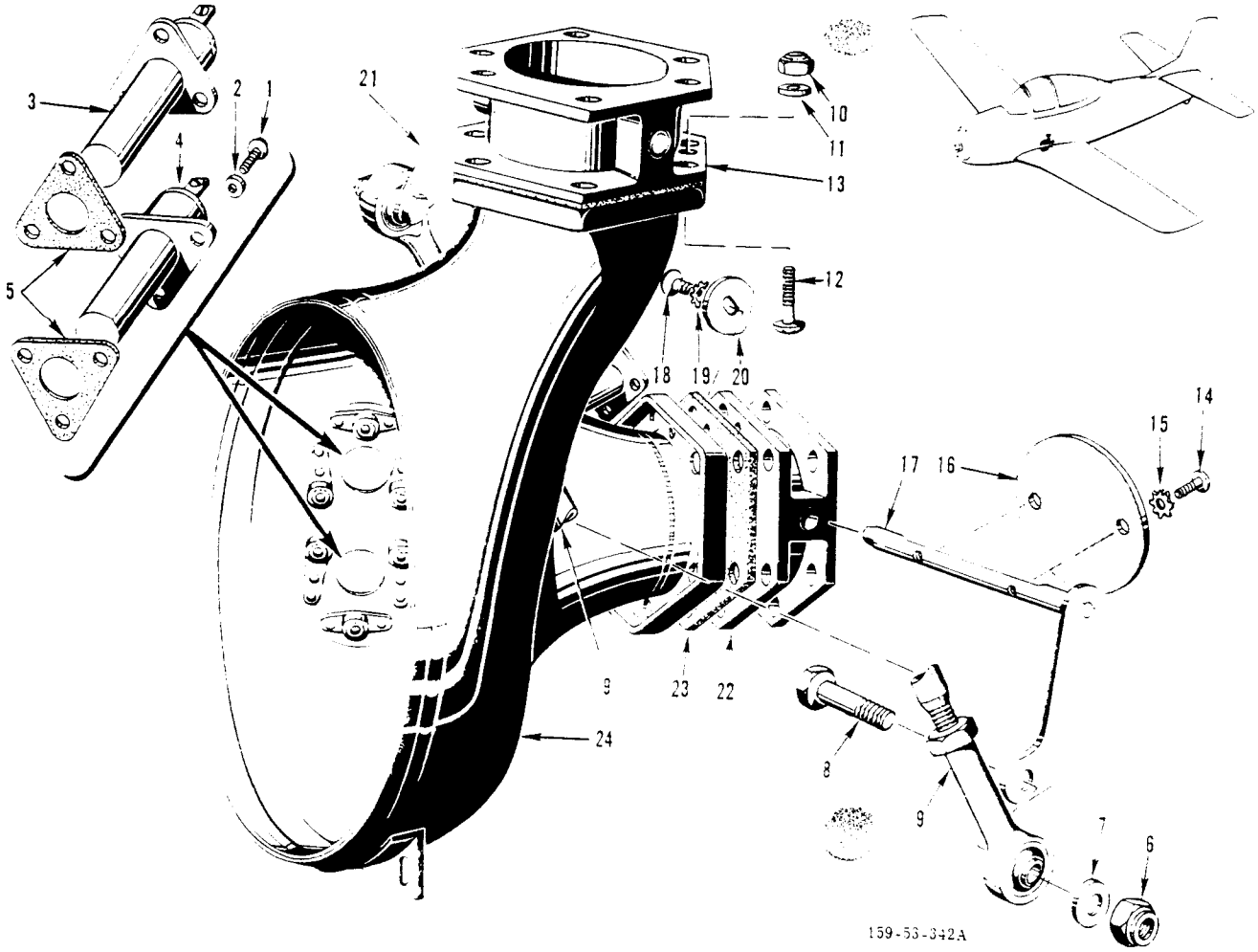


FIGURE 196 - COMPLETE MAIN DISTRIBUTING HEAT AND VENT SYSTEM DUCT ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
196	159-53340	DUCT ASSY, Heat and vent system main distributing complete. . . (See Figure 192 for next assembly)	Ref	
-1	AN520-10-7	SCREW.	6	
-2	AN960-10L	WASHER	6	
-3	18420-0-300	THERMOSWITCH ASSEMBLY (Fenwal)	1	
-4	18423-0-375	THERMOSWITCH ASSEMBLY (Fenwal)	1	
-5	159-53358	BRACKET, R & F sys main distribution duct thermoswitch. . . .	1	
-6	AN365-1032	NUT.	1	
-7	AN960D10	WASHER	1	
-8	AN3-7A	BOLT	1	
-9	159-53506-15	ROD ASSY, Heat & vent sys cockpit heater temp control. . . .	2	
	P34-14	BEARING ASSY, Unibal spherical rod end (Heim	2	
-10	AN365-632	NUT.	4	
-11	AN960D6L	WASHER	4	
-12	AN515-6-8	SCREW.	4	
-13	159-53346	VALVE ASSY, Heat and vent sys emergency shut-off (top) . . .	1	
	159-53348-10	VALVE ASSY, Heat and vent sys emergency shut-off (side . . .	1	
-14	AN515-6R4	SCREW	2	
-15	AN936B6	WASHER.	2	
-16	159-53332	PLATE, Heat and vent system emergency shut-off valve . . .	1	
-17	159-53339	SHAFT ASSY, Heat and vent sys rear (emergency shut-off . . .	1	
		control valve (use on 159-53348-10)		
-18	AN515-8R5	SCREW (Use on 159-53348-10)	1	
-19	AN936B8	WASHER (Use on 159-53348-10)	1	
-20	159-53361	CAM, Heat and vent system emergency control switch. . . .	1	
		(Use on 159-53348-10)		
-21	159-53338	SHAFT ASSY, Heat and vent system fwd cockpit emergency . .	1	
		shut-off (use on 159-53346)		
-22	159-53329	HOUSING, Heat and vent system emergency shut-off valve. .	1	
-23	159-53351	BRACKET, Heat and vent system LH supply floor connection. .	2	
-24	159-53330	DUCT ASSY, Heat and vent system main distributing.	1	

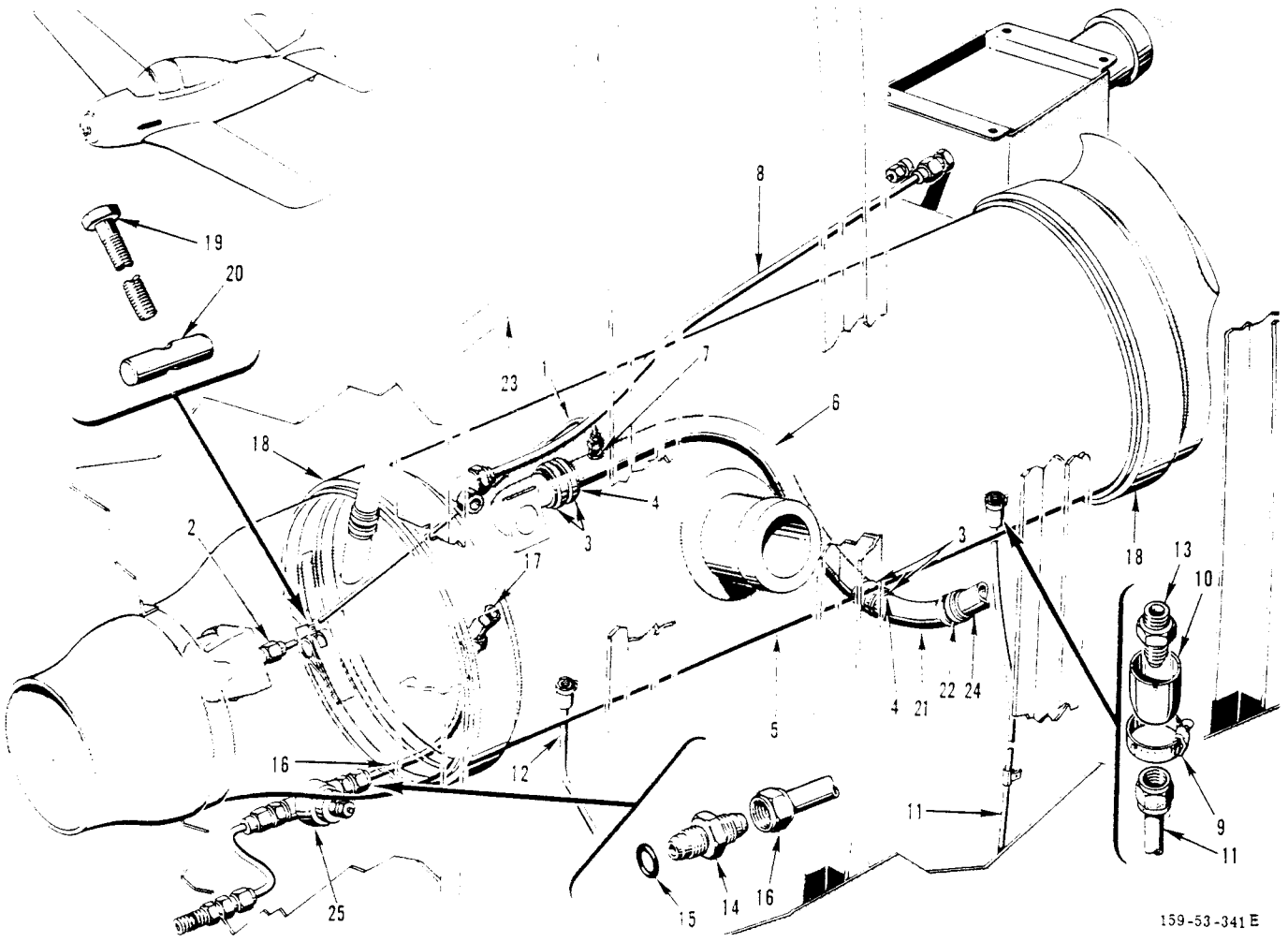


FIGURE 197 - HEAT AND VENT SYSTEM, COCKPIT COMBUSTION HEATER

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
197	159-53307		HEATER INSTALLATION, Heat and vent system cockpit combustion . .	AR	
			see figure 50 for next assembly		
-1	159-53301-47	.	LINE ASSEMBLY, Heater to union	1	
-2	AN816-4	.	NIPPLE	1	
-3	AN737-6C	.	ELBOW	1	
-4	3H2-2-12	.	HOSE, North American	2	
-5	53A22	.	HEATER ASSY, Cockpit, surface combustion, North American . .	1	
			drawing No. 159-4[illegible]		
-6	159-53302	.	TUBE ASSY, Heat and vent sys combustion air heater attaching .	1	
-7	159-53303	.	. ADAPTER, Heat and vent sys heater press. sw inlet connecting	1	
-8	MS20A4-3	.	IGNITION LEAD (Surface Combustion)	1	
-9	AN737-4-6	.	ELBOW	2	
-10	159-53306-4	.	SHIELD, Heat & vent heater drain line attaching fitting aft .	1	
-11	159-53306-3	.	SHIELD, Heat & vent heater drain line attaching fitting fwd .	1	
-12	159-53301	.	LINE ASSY, Heat & vent sys cockpit heater aft drain	1	
-13	159-53301-1	.	LINE ASSY, Forward heater drain	1	
-14	AN816-6	.	NIPPLE	2	
-15	AN816-4	.	NIPPLE	1	4-30
-16	AN816-4	.	UNION	1	31-
-17	AN822D-4	.	REDUCER	1	31-
-18	159-53301-23	.	LINE ASSY, Cycling solenoid to heater	1	4-30
-19	159-53301-43	.	LINE ASSY, Cycling solenoid to heater	1	31-
-20	AN924-4	.	ELBOW	1	
-21	159-53321	.	CLAMP ASSEMBLY, Heat and vent system heater support	2	
-22	5B2-6-7DH	.	. BOLT, Adjustment North American	1	
-23	MAS26-4	.	. GROMMET, Tank strap unthreaded	1	
-24	159-53307	.	TUBE, Heat and vent system heater combustion air wing	1	
			station 2- 1/4 to station 34 1/4		
-25	3H2-24-12		HOSE, North American	Ref	
-26	159-53529-13		LINE ASSEMBLY, Heat and vent system (see figure 191	Ref	
-27	159-53353		DUCT ASSEMBLY, Heater combustion air inlet (see figure 19) . . .	Ref	
-28	12554		VALVE ASSEMBLY, Continuous duty solenoid (see figure 191)	Ref	

ALIGHTING GEAR

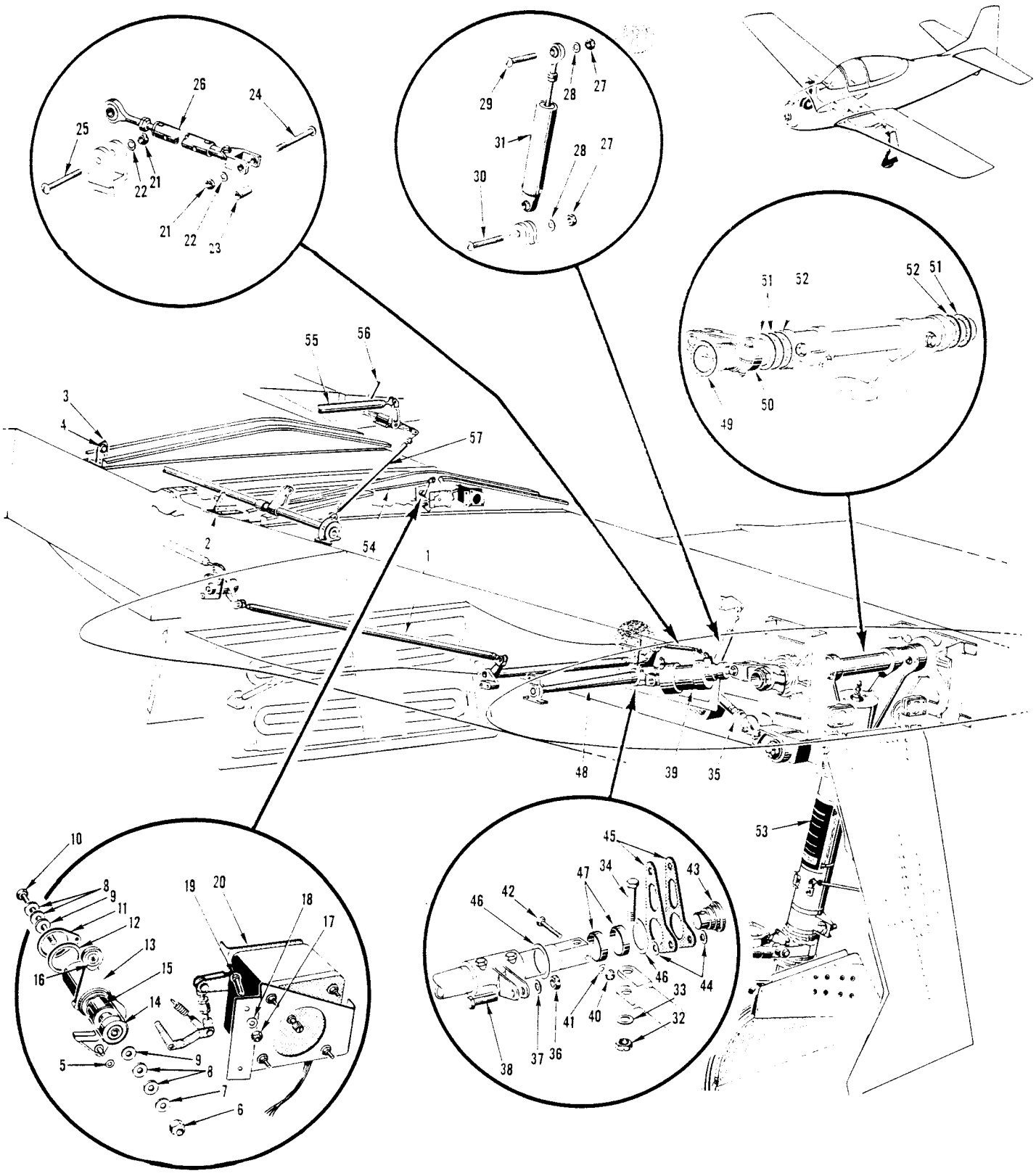


FIGURE 109 - WING MAIN ALIGHTING GEAR

ALIGHTING GEAR (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
198	159-33013-1	MAIN ALIGHTING GEAR INSTL, Wing LH (see fig. 13 & 14 for next assembly)	NP	
	159-33013-2	MAIN ALIGHTING GEAR INSTL, Wing RH (see fig. 13 & 14 for next assembly)	NP	
	No Number	. MAIN ALIGHTING GEAR STRUT & FUSELAGE DOORS EQUIP. (see figure 199 for detail breakdown)	NP	
-1	No Number	. MAIN ALIGHTING GEAR DOWNLOCK ACTUATING EQUIP. (see figure 203 for detail breakdown)	NP	
-2	159-33494	. BLOCK ASSEMBLY, LG master control shaft support (on LH only)	1	
-3	159-33451	. FITTING ASSY, Alighting gear master control shaft RH	1	
-4	AN200KS6	. . BEARING	1	
-5	AN960-10	. WASHER	1	
-6	AN365-524	. NUT	1	
-7	AN960-516	. WASHER	4	
-8	AN960C516L	. WASHER	2	
-9	AN960C516	. WASHER	1	
-10	AN5-37A	. BOLT (Magnetic inspected)	1	
-11	159-34228	. LINK, Main alighting gear uplock sw spring attaching upper	1	
-12	2W1-60-36-63	. WASHER, Plain (North American)	1	
	159-33464-1	. HOOK ASSY, Main alighting gear uplock LH	1	
	159-33464-2	. HOOK ASSY, Main alighting gear uplock RH	1	
-13	159-33462-3	. . HOOK, Main alighting gear uplock LH	1	
	159-33462-4	. . HOOK, Main alighting gear uplock RH	1	
-14	AT5	. . BEARING (Torrington)	2	
-15	159-33465	. . SPACER, Main alighting gear uplock hook bearing	1	
-16	AN200KP3	. . BEARING	1	
-17	AN365-1032	. NUT	1	
-18	AN960-10	. WASHER	1	
-19	AN3-4A	. BOLT	1	
-20	159-34215-1	. MECHANISM ASSY, Main alighting gear uplock switch LH (see figure 205 for detail breakdown)	1	
	159-34215-2	. MECHANISM ASSY, Main alighting gear uplock switch RH (see figure 205 for detail breakdown)	1	
-21	AN320-3	. NUT	2	
-22	AN960-10	. WASHER	2	
-23	159-34415	. SPACER, Alighting gear downlock operating bellcrank	1	
-24	AN23-34	. BOLT	1	
-25	AN23-17	. BOLT	1	
-26	159-34410-5	. ROD ASSY, Alighting gear downlock operating (see figure 216 for detail breakdown)	1	
-27	AN320-3	. NUT	2	
-28	AN960-10	. WASHER	2	
-29	AN23-14	. BOLT	1	
-30	AN23-15	. BOLT	1	
-31	159-33150	. BUNGEE ASSY, Alighting gear brace (refer to T. O. 1601-1-11- for list of detail parts)	1	
-32	AN320-9	. NUT	1	
-33	AN960-916	. WASHER	1	
-34	159-33111-5	. BOLT, Alighting gear brace	1	
-35	159-33103	. BRACE ASSY, Alighting gear (see fig. 201 for detail breakdown)	1	4-270, 394-
	159-33103-10	. BRACE ASSY, Alighting gear (see fig. 201 for detail breakdown)	1	271-393
-36	AN320-10	. NUT	2	
-37	159-33117	. WASHER, Main alighting gear operating cyl attaching bolt key	2	
-38	159-33116	. BOLT, Main alighting gear operating cylinder attaching	2	
-39	159-58628	. CYLINDER ASSY, Hyd main alighting gear complete operating (see figure 216 for detail breakdown)	1	
-40	AN365-1032	. NUT	1	
-41	AN960-10	. WASHER	1	
-42	AN3-17A	. BOLT	1	
-43	159-33122-5	. RETAINER, Alighting gear side brace downlock bellcrank	1	
-44	AN960-516L	. WASHER	2	
-45	159-33115	. BELLCRANK, Main alighting gear downlock operating	1	
-46	2W1LB94-56-16	. WASHER, Plain (North American)	AR	
-47	159-33119	. SPACER, Main alighting gear side brace	2	
-48	159-33124-1	. SHAFT AND ARM ASSY, Main alighting gear side brace LH (supersedes 159-33123-1 for future procurement) (see figure 216 for detail breakdown)		
	159-33124-2	. SHAFT AND ARM ASSY, Main alighting gear side brace RH (supersedes 159-33123-2 for future procurement) (see figure 216 for detail breakdown)	1	
-49	2W1-130-84-32	. WASHER, Plain (North American)	1	
-50	159-33113	. SPACER, Main alighting gear operating arm	1	
-51	2W1-130-80-32	. WASHER, Plain (North American)	3	
-52	2W1C130-80-12	. WASHER, Plain (North American)	AR	
-53	159-33101-11	. CHASSIS ASSY, Main LG LH (see fig. 200 for detail breakdown)	1	
	159-33101-2	. CHASSIS ASSY, Main LG RH (see fig. 200 for detail breakdown)	1	
-54	159-33015	TORQUE SHAFT INSTL, Alighting gear master control (figure 206)	Ref	
-55	159-33016	ALIGHTING GEAR CONTROL SYSTEM INSTL, LH side panel (figure 209)	Ref	
-56	159-33018	ALIGHTING GEAR CONTROL SYSTEM INSTL, Rear cockpit (figure 210)	Ref	
-57	159-33019	ALIGHTING GEAR CONTROL SYSTEM INSTL, Wing to fus (figure 208)	Ref	

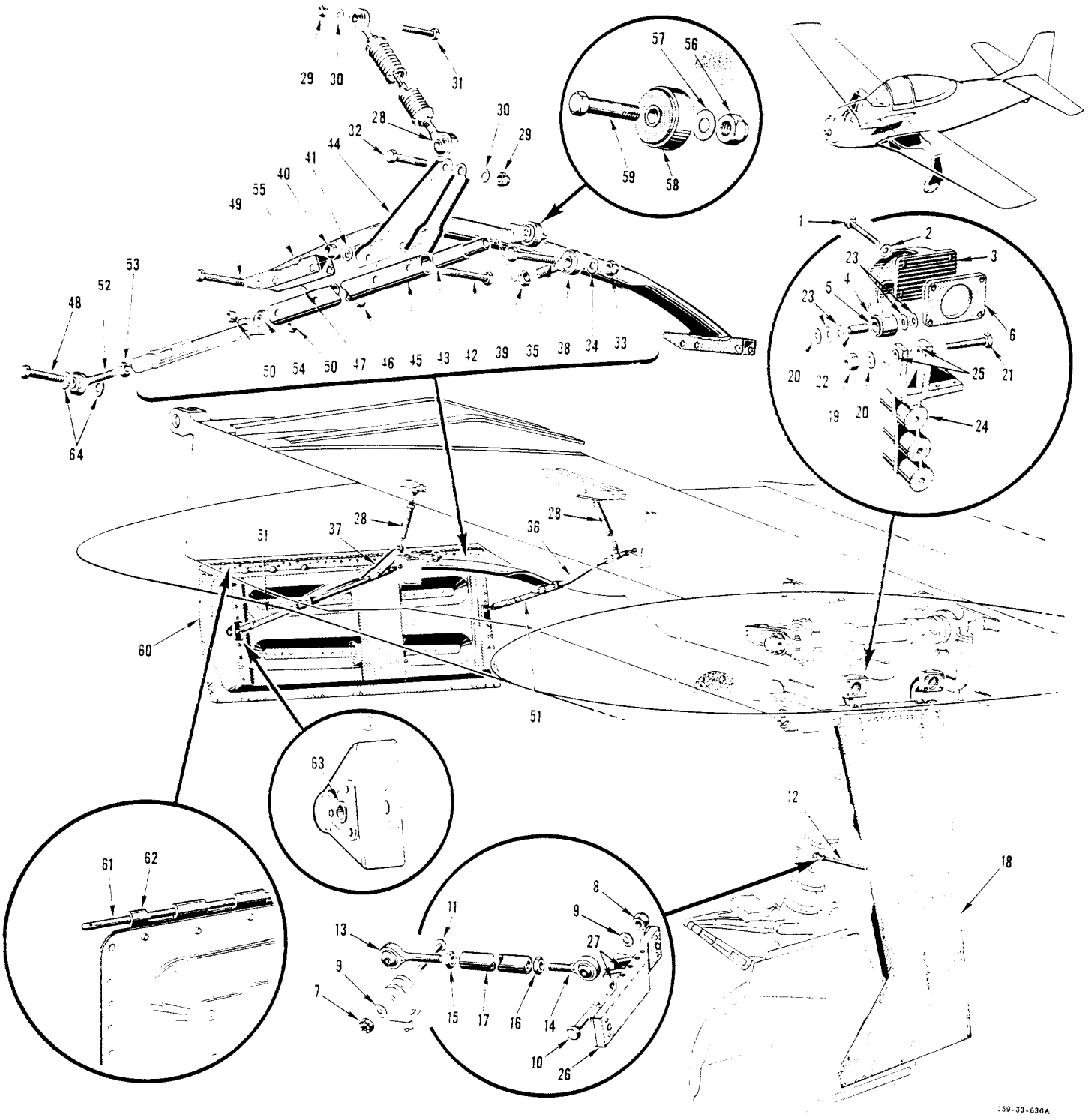


FIGURE 199 - MAIN ALIGHTING GEAR STRUT AND FUSELAGE DOORS EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
199	No Number	MAIN ALIGHTING GEAR STRUT AND FUSELAGE DOORS EQUIPMENT see figure 198 for next assembly	NP	
-1	AN3-11A AN3-10A	. BOLT (Forward) . BOLT (Aft)	4	
-2	AN960-10	. WASHER	4	
-3	159-33304 159-33303	. FITTING ASSY, Main alighting gear strut door wing hinge fwd. . FITTING ASSY, Main alighting gear strut door wing hinge aft.	1 1	
-4	NAS2-101	. . FITTING, Lubrication.	1	
-5	4B20B6-011	. . BUSHING, Press fit flanged (North American)	2	
-6	159-33306	. PLATE, Main alighting gear strut door wing hinge, fwd & aft	2	

ALIGHTING GEAR (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
199-7	AN320-5	.	NUT.	1	
-8	AN365-524	.	NUT.	1	
-9	AN960-516	.	WASHER	2	
-10	AN5-14A	.	BOLT (Link to strut) (Magnetic inspected).	1	
-11	AN25-16	.	BOLT (Link to door) (Magnetic inspected)	1	
-12	159-33311	.	LINK ASSEMBLY, Main alighting gear strut door.	1	
-13	159-33311-7	. .	END, Rod (altered from Heim Part No. HM-5).	1	
-14	159-33311-5	. .	END, Rod (altered from Heim Part No. HML-5)	1	
-15	AN316-5R	. .	NUT	1	
-16	AN316-5L	. .	NUT	1	
-17	159-33311-3	. .	TUBE, Main alighting gear strut door link	1	
-18	159-33301-1	.	DOOR ASSEMBLY, Main alighting gear strut LH	1	
	159-33301-2	.	DOOR ASSEMBLY, Main alighting gear strut RH	1	
	ATTACHING PARTS				
-19	AN365-428	.	NUT.	2	
-20	AN960-416	.	WASHER	4	
-21	AN4-21A	.	BOLT (Magnetic inspected).	2	
-22	4B21C4-104	.	BUSHING, Spacer (North American)	2	
-23	AN960-616L	.	WASHER (Forward only)	4	
	---*---				
-24	159-33302-1	. .	FITTING ASSY, Main LG strut door hinge LH (forward)	1	
	159-33302-2	. .	FITTING ASSY, Main LG strut door hinge RH (forward)	1	
	159-33302-3	. .	FITTING ASSY, Main LG strut door hinge LH (aft)	1	
	159-33302-4	. .	FITTING ASSY, Main LG strut door hinge RH (aft)	1	
-25	4B19S4-008	. . .	BUSHING, Press fit plain (North American)	2	
	159-33301-19	. .	DOOR WELD ASSEMBLY, Main alighting gear strut LH.	1	
	159-33301-20	. .	DOOR WELD ASSEMBLY, Main alighting gear strut RH.	1	
-26	159-33305	. . .	FITTING ASSEMBLY, Main alighting gear strut door link.	2	
-27	4B19S5-008	. . .	BUSHING, Press fit plain (North American)	4	
-28	159-33308	.	BUNGEE ASSY, Main alighting gear fus door actg mech (refer to T. O. 1C-1-111- for list of detail parts)	2	
	ATTACHING PARTS				
-29	AN365-1032	.	NUT.	4	
-30	AN960-10	.	WASHER	6	
-31	AN3-6A	.	BOLT (Forward)	2	
	AN3-7A	.	BOLT (Aft)	2	
-32	AN3-7A	.	BOLT	2	
	---*---				
-33	AN365-1032	.	NUT.	4	
-34	AN960-10	.	WASHER	6	
-35	AN3-11A	.	BOLT (Magnetic inspected)	2	
-36	159-33347-1	.	ROD ASSY, Main alighting gear fus door actuating mech aft LH	1	
	159-33347-2	.	ROD ASSY, Main alighting gear fus door actuating mech aft RH	1	
-37	159-33348	.	ROD ASSY, Main alighting gear fus door actuating mech (fwd).	1	4-393
	174-33305	.	ROD ASSY, Main alighting gear fus door actuating mech fwd RH	1	394-
-38	RE3M8A	. .	BEARING (Fafnir Bearing)	2	
-39	AN316-6R	. .	NUT	2	
-40	AN365-1032	. .	NUT	2	
-41	AN960D10	. .	WASHER.	2	
-42	AN3-13A	. .	BOLT.	2	
-43	159-33349	. .	ROD END, Main alighting gear fus door actuating mech.	1	
-44	159-33315	. .	BRACKET ASSEMBLY, Main alighting gear fuselage door actuating mechanism forward bungee support	1	4-393
	159-33316	. .	BRACKET ASSY, Main LG fuselage door aft bungee support.	1	
	174-33304	. .	BRACKET ASSY, Main alighting gear fus door actuating. mechanism forward bungee support	1	394-
-45	159-33347-3	. .	TUBE, Main alighting gear fus door actuating mech aft	1	
	159-33348-3	. .	TUBE, Main alighting gear fus door actuating mech fwd	1	4-393
	174-33305-3	. .	TUBE, Main alighting gear fus door actuating mech fwd	1	394-
-46	AN365-1032	.	NUT.	6	
-47	AN960-10	.	WASHER	6	
-48	AN3-10A	.	BOLT	2	
-49	AN3-14A	.	BOLT	2	
-50	4S3-10-6	.	SPACER, Bolt (North American).	4	
-51	159-33351-5	.	LINK ASSEMBLY, Main alighting gear fuselage door lower	2	
-52	RE3M6A	. .	END, Rod (Fafnir Bearing)	1	
-53	AN316-6R	. .	NUT	1	
-54	AN206DSP3	. .	BEARING (Fafnir Bearing No. DS3).	1	
-55	159-33350-1	.	YOKE ASSEMBLY, Main LG fus door actuating mechanism LH	1	
	159-33350-2	.	YOKE ASSEMBLY, Main LG fus door actuating mechanism RH	1	
-56	AN365-624	. .	NUT	1	
-57	AN960-616	. .	WASHER.	1	
-58	FT6	. .	BEARING (Torrington).	1	
-59	AN6-12A	. .	BOLT	1	
-60	159-33336-1	.	DOOR ASSEMBLY, Main alighting gear fuselage LH	1	
	159-33336-2	.	DOOR ASSEMBLY, Main alighting gear fuselage RH	1	
	ATTACHING PARTS				
-61	159-34323-7	.	PIN, Alighting gear door hinge	1	
	---*---				
-62	159-33343	. .	HINGE, Main alighting gear fuselage door.	1	
	159-33336-51	. .	DOOR SUB-ASSEMBLY, Main alighting gear fuselage LH.	1	
	159-33336-52	. .	DOOR SUB-ASSEMBLY, Main alighting gear fuselage RH.	1	
-63	4B19S3-004	. . .	BUSHING, Press fit plain (North American).	2	
-64	AN960C10L	.	WASHER	4	

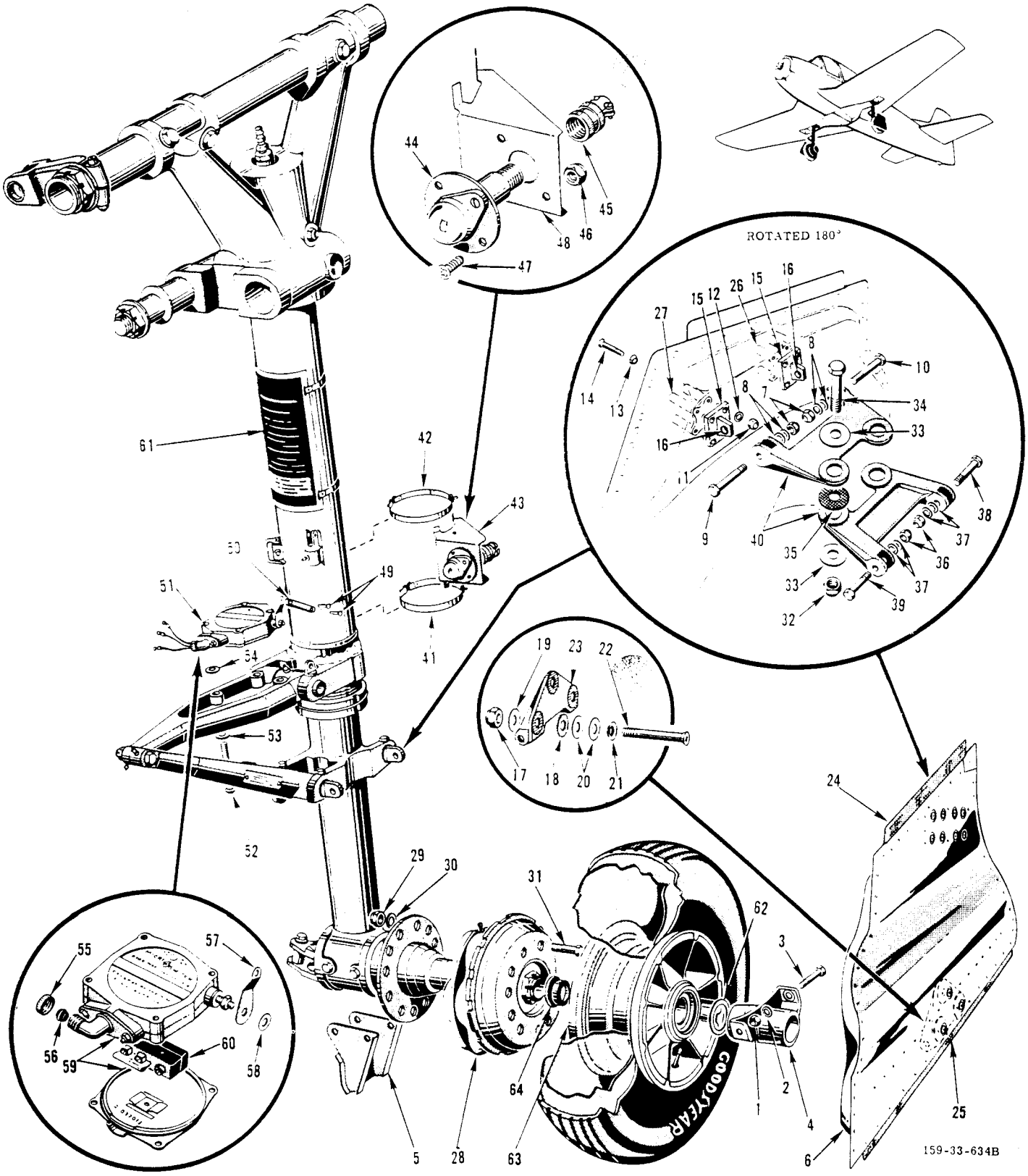


FIGURE 200 - MAIN ALIGHTING GEAR CHASSIS ASSEMBLY LH AND RH

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
200	159-33101-11	*2	CHASSIS ASSY, Main alighting gear LH (see fig. 198 for next assy)	Ref	
	159-33101-2		CHASSIS ASSY, Main alighting gear RH (see fig. 198 for next assy)	Ref	
-1	AN365-428		. NUT	2	
-2	AN960-416		. WASHER	2	

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
200-3	AN4-10A	.	BOLT (magnetic inspected)	2	
-4	159-33323	.	FITTING, Main alighting gear wheel door axle attaching	1	
-5	154-33346 *1	.	ACTUATOR ASSY, Main LG wheel door retract mechanism	1	
-6	159-33321-1	.	DOOR ASSEMBLY, Main alighting gear wheel fixed LH	1	
	159-33321-2	.	DOOR ASSEMBLY, Main alighting gear wheel fixed RH	1	
	ATTACHING PARTS				
-7	AN340--	.	NUT	2	
-8	AN960--16	.	WASHER	2	
-9	AN4--21	.	BOLT (magnetic inspected)	1	
-10	AN4--19	.	BOLT (magnetic inspected)	1	
	---*---				
-11	AN316-1032	. .	NUT	8	
-12	AN960---	. .	WASHER	8	
-13	AN935-1032SS	. .	WASHER (Tinnerman)	8	
-14	AN509-10-36	. .	SCREW (magnetic inspected) (aft)	4	
	AN509-10-36	. .	SCREW (magnetic inspected) (fwd)	4	
-15	159-33327	. .	FITTING ASSY, Main LG fixed wheel door outbd attaching	4	
-16	MS21908--1012	. .	BUSHING, Press fit plain (North American)	8	
-17	AN316--28	. .	NUT	8	
-18	AN960---	. .	WASHER (North American) (supersedes 159-33331)	8	
-19	AN960-10-32-SS	. .	WASHER, Plain (North American)	AR	
-20	AN960-10-32-32	. .	WASHER, Plain (North American)	AR	
-21	154-33-1205S	. .	WASHER (Tinnerman)	8	
-22	AN509--10----	. .	SCREW (magnetic inspected)	8	
-23	159-33324	. .	FITTING, Main LG wheel forward door inboard attachment	1	
-24	159-33328-3	. .	STRIP, Main alighting gear wheel fixed door outbd landing	1	
-25	159-33325-3	. .	STRIP, Main alighting gear wheel fixed door outbd landing	1	
-26	159-33332	. .	SPACER, Main alighting gear fixed wheel door outbd fitting	1	
-27	159-33333	. .	SPACER, Main alighting gear fixed wheel door gear fitting	1	
-28	159-33326	.	BRACE ASSY, (GFAE - Goodyear) (AERNO 41-7811)	1	
-29	AN316-832-	.	NUT	2	
-30	AN960-832	.	WASHER	2	
-31	AN---	.	BOLT (magnetic inspected)	2	
-32	AN316-832-	.	NUT	2	
-33	AN960-1032---128	.	WASHER, Plain (North American)	2	
-34	AN4-21	.	BOLT (magnetic inspected)	2	
-35	154-33329	.	WASHER, Main alighting gear fixed wheel door link serrated	2	
-36	AN316--	.	NUT	2	
-37	AN960-416	.	WASHER	2	
-38	AN4-21	.	BOLT (magnetic inspected)	2	
-39	AN4-19	.	BOLT (magnetic inspected)	2	
-40	159-33326-3	.	FITTING, Main LG LH wheel fixed door outboard attachment link	1	
-41	159-34166-1	.	SUPPORT, 3/4D T-Slot Lug (Marman Products)	1	
-42	528-028-3.7513	.	CLAMP (Marman Products)	1	
-43	154-84161	.	LIGHT ASSEMBLY, Main alighting gear extended indicator	1	
-44	AN3102-1	.	LIGHT ASSEMBLY, Extension cord, wtg (Grimes No. 1267-12)	1	
-45	AN3057-3	.	ADAPTER	1	
-46	AN3057-4	.	NUT	1	
-47	AN507--86	.	SCREW	1	
-48	159-84-180	.	SUPPORT, Main alighting gear extended indicator light	1	
-49	AN393-6	.	PIN (LH only)	1	
-50	159-84217	.	LINK, Alighting gear safety switch actuating (LH only)	1	
-51	159-84217-11 *2	.	HOUSING ASSY, Alighting gear safety switch (LH only	1	
	ATTACHING PARTS				
-52	AN526-832R36	.	SCREW (LH only)	3	
-53	AN936B8	.	WASHER (LH only)	3	
-54	AN960-8L	.	WASHER (LH only	3	
	---*---				
-55	AN3054-6	. .	NUT	1	
-56	AN3057-3	. .	SEAL ASSEMBLY	1	
-57	159-84216	. .	ARM, Alighting gear safety switch actuating	1	
-58	AN960-10L	. .	WASHER	1	
-59	AN3233-5	. .	SWITCH ASSEMBLY	1	
-60	1LS1	. .	SWITCH (Micro Switch Corp)	1	
-61	B75450-1	.	STRUT ASSY, Main LG shock LH (Axelson) (North American dwg No. 159-33102-1) (for a list of detail parts refer to AN 03-25EJ2)	1	
	B75450-2	.	STRUT ASSY, Main LG shock RH (Axelson) (North American dwg No. 159-33102-2) (for a list of detail parts refer to AN 03-25EJ2)	1	
-62	DM1AL66-42-32	.	WASHER, Plain (North American	AR	
-63	5B30840M1	.	WHEEL ASSY, 24 x 7.7 Spec AN-W6 or MIL-W5013 type VII (GFAE) (AERNO 41-7810)	1	
-64	3520144	.	CAP ASSY, Main alighting gear wheel bearing dust Goodyear) (GFAE) (159-33142 may be sub)	1	41-268, 394-4-40, 269-393
	3520144	.	CAP ASSY, Main alighting gear wheel bearing dust Goodyear) (159-3331-2 may be sub.)	1	
	No Number	.	CASING, 24 x 7.7 extra high press. Spec AN-T5B or MIL-T5041, type VII (GFAE) (Goodyear) (AERNO 41-7812)(12 ply rating)	1	
	No Number	.	TUBE, 24 x 7.7 extra high press. (Spec AN-T78B type VII) (GFAE) (Goodyear) (AERNO 41-7813)	1	4-268
	No Number	.	TUBE, 24 x 7.7 extra high press. (Spec MIL-T5014 type VII) (GFAE) (Goodyear) (AERNO 41-7815)	1	269-

*1 Refer to T.O. 01-60FGA-83.
*2 Refer to T.O. 01-60FGA-88.

ALIGHTING GEAR (Cont.)

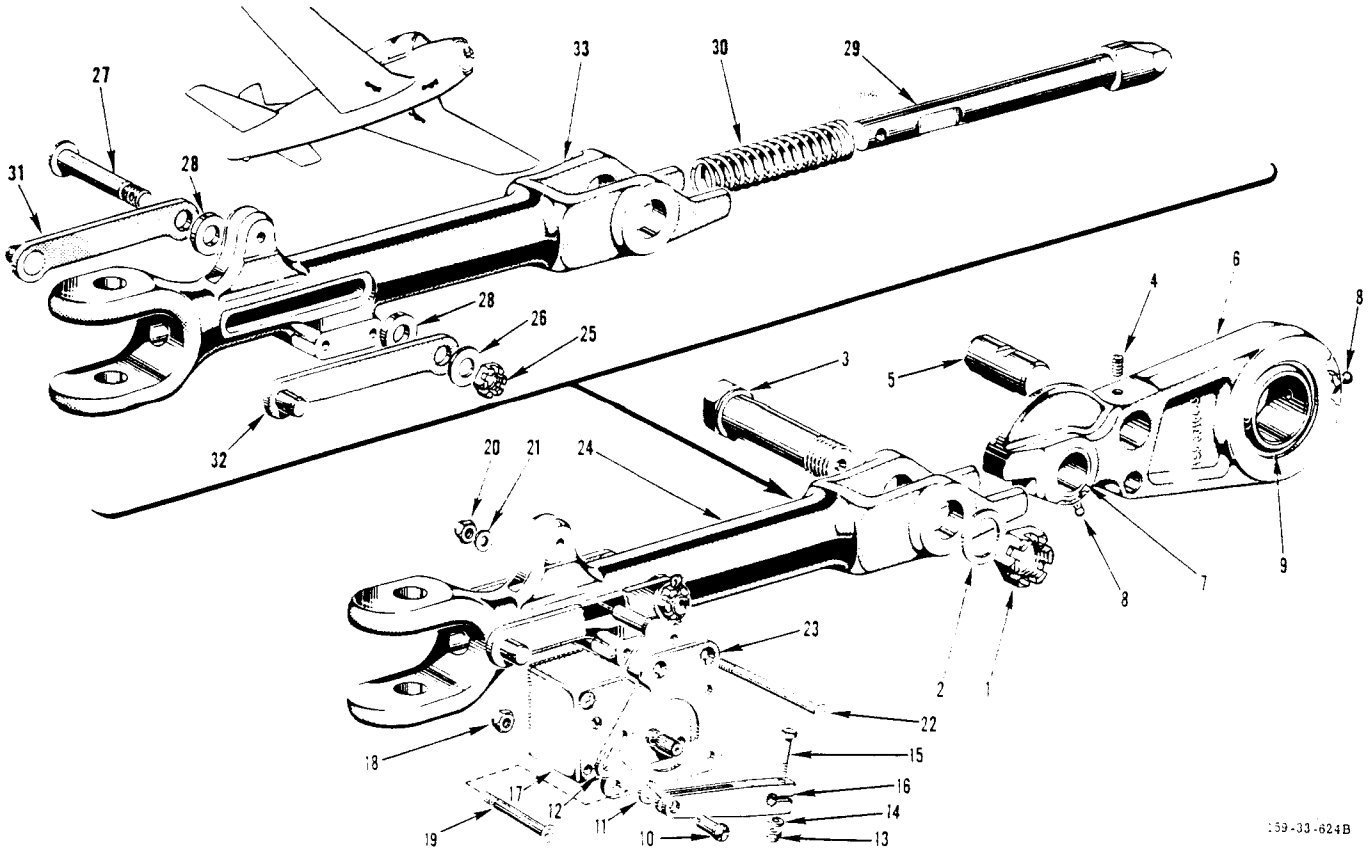


FIGURE 2-1 - ALIGHTING GEAR FRAME ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
2-1	159-33103		BRACE ASSY, Alighting gear see Fig. 2-1 & 2-2 for next assy	Ref	--270,394
	159-33103-13		BRACE ASSY, Alighting gear see Fig. 2-1 & 2-2 for next assy	Ref	271-393
-1	AN320-8		NUT	1	
-2	AN960-816L		WASHER	1	
-3	159-33111-3		BOLT, Alighting gear brace center	1	
-4	AN6227B-8		SCREW	1	
-5	159-33114		PIN, Alighting gear brace strut	1	
-6	159-33104-5		LINK ASSEMBLY, Alighting gear brace lower	1	
-7	MB1999-113		BUSHING, Press fit plain (North American	2	
-8	MAS2-101		FITTING, Lubrication	2	
-9	MSB313A		BEARING ASSY, Radial supersedes 159-33115 for future procurement	1	
-10	AN393-11		PIN	1	
-11	AN960-10L		WASHER	1	
-12	159-33139-13		LINK ASSY, LG downlock indicator sw supersedes 159-33139	1	
-13	AN364-832		NUT	1	
-14	AN960-10		WASHER	1	
-15	AN3-7A		BOLT	1	
-16	159-33141		ARM, Alighting gear downlock indicator switch	1	
-17	159-5-302		SWITCH ASSY, Alighting gear downlock see Fig. 2-5 for breakdown	1	--270,394
	159-5-302-11		SWITCH ASSY, Alighting gear downlock see Fig. 2-5 for breakdown	1	271-393
-18	AN364-832		NUT	1	
-19	AN507-632R32		SCREW	1	
-20	AN364-1032		NUT	1	
-21	AN960-1032		WASHER	1	
-22	AN509-10R33		SCREW	1	
-23	159-33141-3		PLATE, Alighting gear downlock indicator switch support	1	
	159-33141-5		PLATE, Alighting gear downlock indicator switch support	1	
-24	159-33106		LINK ASSY, Alighting gear brace upper	1	
-25	AN320-8		NUT	1	
-26	AN960D8-16L		WASHER	1	
-27	159-33113		BOLT, Alighting gear brace link pin actuating link	1	
-28	2W1820-22-125		WASHER, Plain (North American	1	
-29	159-33115		PIN, Alighting gear downlock	1	
-30	159-33121		SPRING, Alighting gear brace downlock operating	1	
-31	159-33112-7		LINK ASSY, Alighting gear downlock operating LH supersedes 159-33112-1	1	
-32	159-33112-8		LINK ASSY, Alighting gear downlock operating RH supersedes 159-33112-2	1	
-33	159-33107-3		LINK, Alighting gear brace upper	1	

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ALIGHTING GEAR (CONT)

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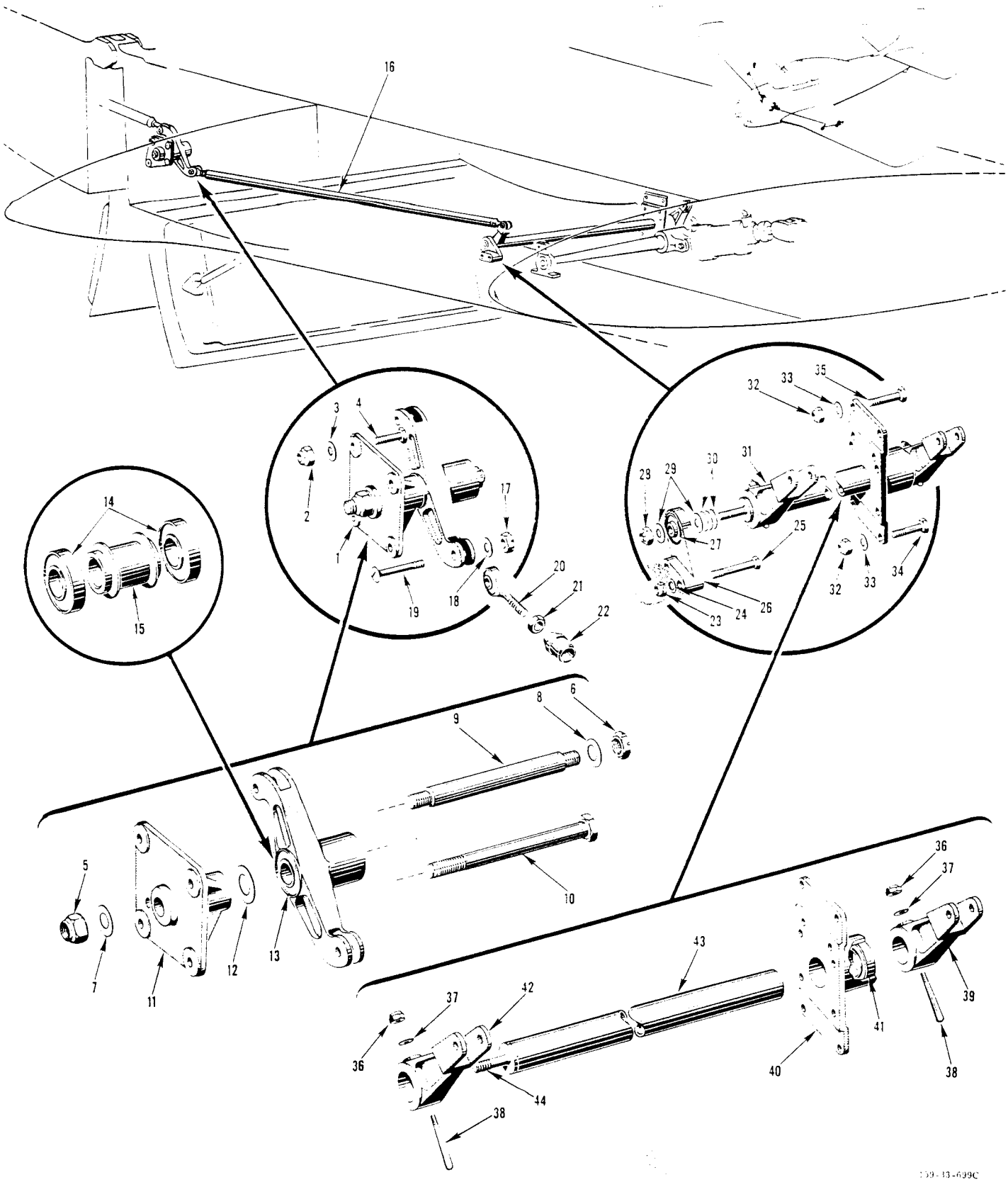
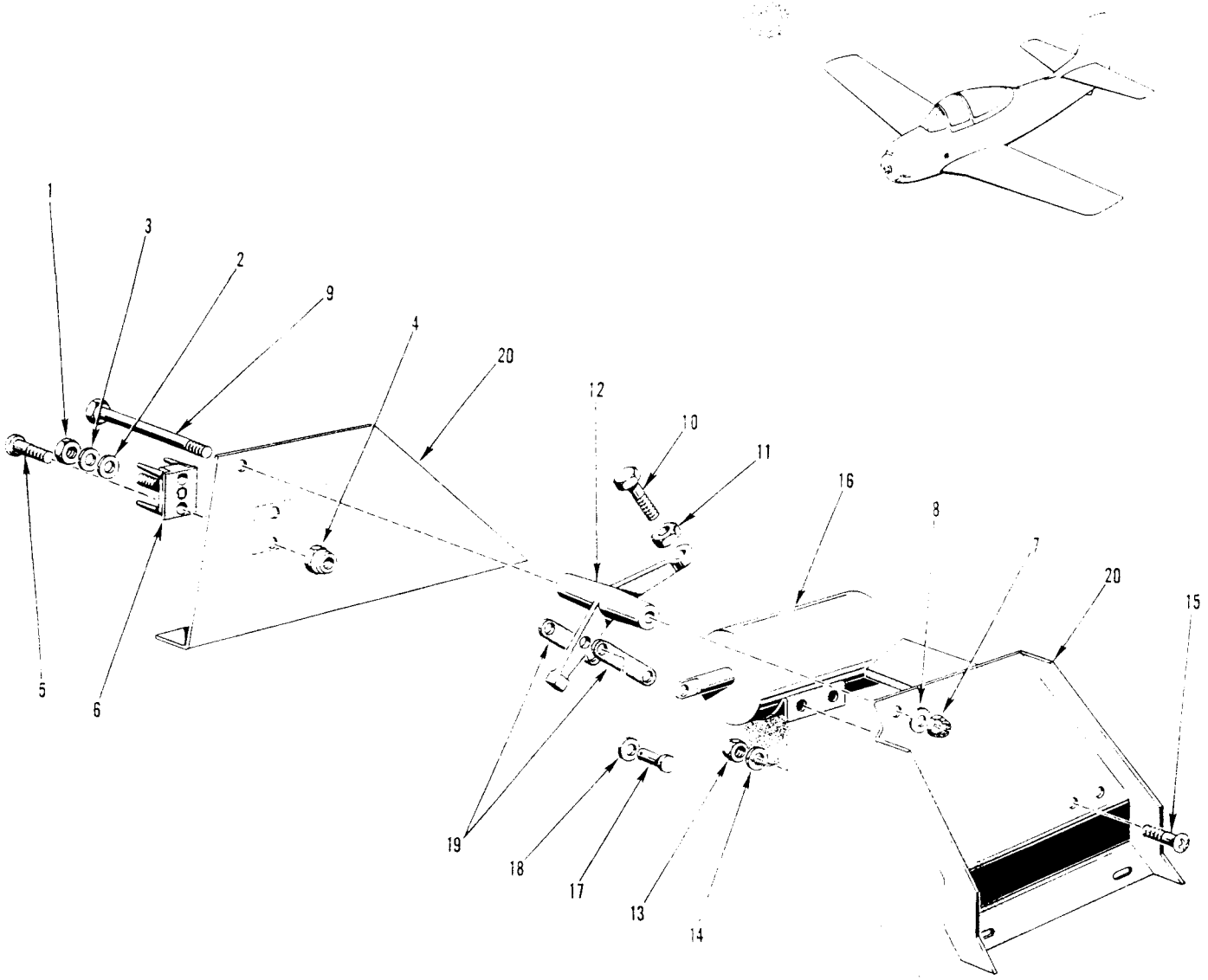


FIGURE 203 - MAIN ALIGHTING GEAR DOWNLOCK ACTUATING EQUIPMENT

LANDING GEAR (cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
203	No Number		MAIN LANDING GEAR DOWNLOCK ACTUATING EQUIPMENT (see figure 198 for next assembly)	NP	
-1	169-33475-3		. BELLCRANK ASSY, Main landing gear downlock actuating complete (on LH only; supersedes 169-33475 for future procurement)	1	
	169-33475		. BELLCRANK ASSY, Main landing gear downlock actuating complete (on LH only; superseded by 169-33475-3. 169-33475 may be used interchangeably with 169-33475-3 until stock is exhausted)	1	
	ATTACHING PARTS				
-2	AN365-1032		. NUT (on LH only)	1	
-3	AN960-10		. WASHER (on LH only)	1	
-4	AN3-4A		. BOLT (on LH only)	1	
	---*---				
-5	AN364-820		. . NUT, used on 169-33475-3	1	
	AN365-824		. . NUT, used on 169-33475		
-6	AN321-8		. . NUT, used on 169-33475	1	
-7	AN960D816		. . WASHER, used on 169-33475-3	1	
	AN960-816		. . WASHER, used on 169-33475		
-8	AN960-416		. . WASHER, used on 169-33475	1	
-9	169-33477		. . PIN, Main alighting gear downlock vertical bell crank pivot, used on 169-33475 (for future procurement use AN173-1A)	1	
-10	AN173-1A		. . BOLT, supersedes 169-33477 for future procurement, used on 169-33475-3	1	
-11	169-33476		. . FITTING, Main alighting gear downlock actuating vertical rod bellcrank	1	
-12	AN960-28-L2		. . WASHER, Plain (North American)	1	
-13	169-33472		. . BELLCRANK ASSEMBLY, Main alighting gear downlock horizontal rods actuating	1	
-14	AN210-8A		. . . BEARING	2	
-15	MS-21-1.250		. . . WASHER, Flanged dual bearing (North American)	2	
-16	169-33485-3		. BOLT ASSY, Main LG downlock tube actuating (on LH only)	1	
	169-33485-4		. BOLT ASSY, Main LG downlock tube actuating (on RH only)	1	
	ATTACHING PARTS				
-17	AN320-8		. NUT	2	
-18	AN960-10		. WASHER	2	
-19	AN3-17		. BOLT	2	
	---*---				
-20	REIM6-2N		. . END, Rod (Fafnir Bearing)	2	
-21	AN316-6R		. . NUT	2	
	169-33486-11		. . TUBE SUB-ASSY, Main LG downlock tube actuating (LH)	1	
	169-33486-13		. . TUBE SUB-ASSY, Main LG downlock tube actuating (RH)	1	
-22	169-33486		. . . BIT END, Main alighting gear downlock operating rod	2	
-23	AN365-1032		. NUT	2	
-24	AN960-10		. WASHER	2	
-25	AN3-14A		. BOLT	2	
-26	169-33482-1		. SUPPORT ASSY, Main LG downlock torque shaft LH	1	
	169-33482-2		. SUPPORT ASSY, Main LG downlock torque shaft RH	1	
-27	AN210KS4		. . BEARING	2	
-28	AN320--		. NUT	2	
-29	AN960--16		. WASHER	2	
-30	AN960-416L		. WASHER	2	
-31	169-33492-1		. TUBE ASSY, Main alighting gear downlock actuating LH	1	
	169-33492-2		. TUBE ASSY, Main alighting gear downlock actuating RH	1	
	ATTACHING PARTS				
-32	AN365-1032		. NUT	2	
-33	AN960-10		. WASHER	2	
-34	AN3-7A		. BOLT	1	
-35	AN3-6A		. BOLT	1	
	---*---				
-36	AN365-1032		. . NUT	2	
-37	AN975-3		. . WASHER	2	
-38	AN196-2-11A		. . PIN	1	
-39	169-33484		. . BELLCRANK, Main alighting gear downlock rod actuating	1	
-40	169-33491		. . SUPPORT ASSY, Main alighting gear downlock torque tube rear	1	
-41	B639		. . . BEARING (Fafnir Bearing)	1	
-42	169-33483		. . BELLCRANK, Main alighting gear downlock torque shaft actuating	1	
-43	169-33481		. . SHAFT ASSY, Main alighting gear downlock operating torque	1	
-44	169-33490		. . . PIN, Main alighting gear downlock torque shaft pivot	1	



159-33-686

FIGURE 204 - ALIGHTING GEAR SAFETY SWITCH OPERATING SOLENOID ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
204	159-54218	SOLENOID ASSY, Alighting gear safety switch operating (see figure 206 for next assembly)	Ref	
-1	AN340-6	. NUT	1	
-2	AN960-6	. WASHER	1	
-3	AN936A6	. WASHER	1	
-4	AN365-440	. NUT	1	
-5	AN515-4R7	. SCREW	2	
-6	NAS45-6-1	. PANEL ASSEMBLY, Electrical connector	1	
-7	AN320-3	. NUT	1	
-8	AN960-10L	. WASHER	1	
-9	AN23-32	. BOLT	1	
-10	5B1-5	. BOLT, Adjustment 1/8 (North American)	1	
-11	AN341-10	. NUT	1	
-12	159-54220-3	. ARM, Alighting gear operating handle safety switch	1	
-13	AN365-1032	. NUT	1	
-14	AN960-10L	. WASHER	4	
-15	AN520-10R8	. SCREW	4	
-16	1-37CP	. SOLENOID, (West Coast Electric)(North American No. 159-954063)	1	
-17	AN392-7	. PIN	2	
-18	AN960-4	. WASHER	4	
-19	159-54183	. LINK, Alighting gear safety switch solenoid to arm connecting	2	
-20	159-54219	. BRACKET ASSY, Main landing gear safety switch solenoid switch	1	

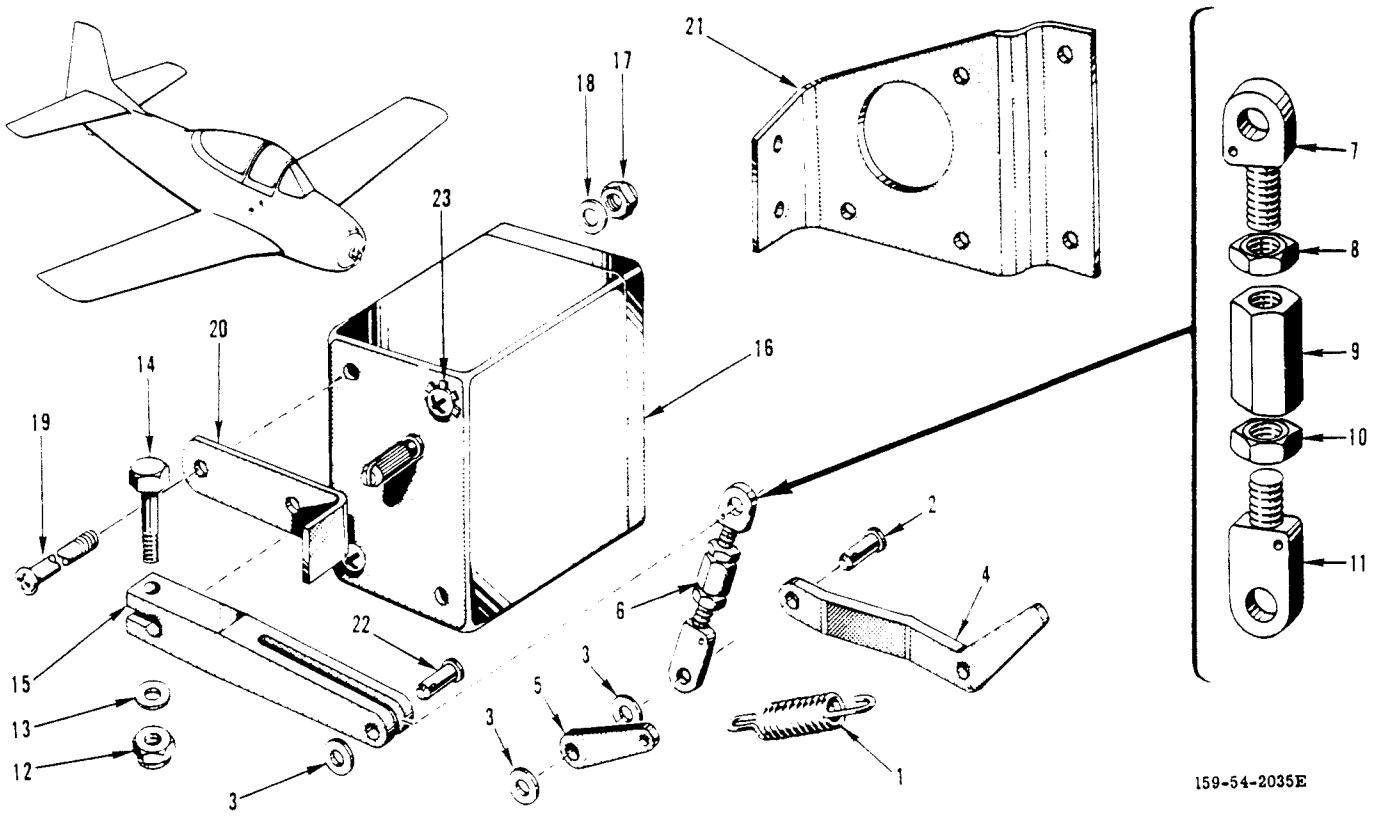


FIGURE 205 - ALIGHTING GEAR UPLOCK SWITCH ASSEMBLIES LH AND RH

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
205			ALIGHTING GEAR UPLOCK SWITCH ASSEMBLIES LH AND RH		
	159-54215-1	.	MECHANISM ASSEMBLY, Main alighting gear uplock switch LH . . (see figure 196 for next assembly)	Ref	
	159-54215-2	.	MECHANISM ASSEMBLY, Main alighting gear uplock switch RH . . (see figure 196 for next assembly)	Ref	
	159-54214	.	MECHANISM ASSEMBLY, Auxiliary alighting gear uplock switch . (see figure 211 for next assembly)	Ref	4-328
-1	171-52033	. .	SPRING, Tension (used on 159-54215) . . . . . (use 151-52033 until exhausted)	1	
	159-54235	. .	SPRING, Aux alighting gear uplock switch linkage	1	4-328
-2	AN393-13	. .	PIN	1	
-3	AN960-10	. .	WASHER	3	
-4	159-54226-1	. .	TRIGGER ASSY, Main alighting gear uplock sw operating LH .	1	
	159-54226-2	. .	TRIGGER ASSY, Main alighting gear uplock sw operating RH .	1	
	159-54232	. .	TRIGGER ASSY, Aux alighting gear uplock switch operating .	1	4-328
-5	159-54229	. .	LINK, Main alighting gear uplock sw spring attaching lower	1	
	159-54234	. .	CLIP, Aux alighting gear uplock switch spring attaching .	1	4-328
-6	159-54356	. .	ARM ASSY, Main alighting gear uplock switch operating . .	1	
	159-54321	. .	ARM ASSY, Aux alighting gear uplock switch operating . .	1	4-328
-7	159-54355-7	. . .	BOLT, LG uplock sw operating eye (used on 159-54356) .	1	
	159-54355-5	. . .	BOLT, LG uplock sw operating eye (used on 159-54321) .	1	4-328
-8	159-54056	. . .	NUT, Light hexagon LH coarse thread	1	
-9	159-54354	. . .	TURNBUCKLE, Alighting gear uplock switch operating . .	1	
-10	AN340-6	. . .	NUT	1	
-11	159-54355-9	. . .	BOLT, LG uplock sw operating eye (used on 159-54356) .	1	
	159-54355-3	. . .	BOLT, LG uplock sw operating eye (used on 159-54321) .	1	4-328
-12	AN365-1032	. .	NUT	1	
-13	AN960D10	. .	WASHER	1	
-14	AN3-7A	. .	BOLT	1	
-15	159-33140	. .	ARM, Alighting gear downlock indicator switch	1	
-16	159-54301	. .	SWITCH ASSY, Elec main gear uplock (use on 159-54215-1 . . and -2) (see fig. 215 for breakdown)	1	
	159-54301-10	. .	SWITCH ASSY, Elec main LG uplock (use on 159-54214) . . . (see figure 215 for detail breakdown)	1	4-328
-17	AN364-632	. .	NUT	2	
-18	AN960-6	. .	WASHER	2	
-19	AN526-632R32	. .	SCREW (used on 159-54215)	2	
	AN526-632R36	. .	SCREW (used on 159-54214)	2	4-328
-20	159-54230	. .	STOP, Main alighting gear uplock switch arm	1	
-21	159-54353-1	. .	BRACKET, Main alighting uplock switch mounting LH	1	
	159-54353-2	. .	BRACKET, Main alighting uplock switch mounting RH	1	
-22	AN393-13	. .	PIN (used on 159-54215)	1	
	AN393-9	. .	PIN (used on 159-54214)	1	4-328
-23	AN936B6	. .	WASHER (used on 159-54215)	1	

ALIGHTING GEAR (cont)

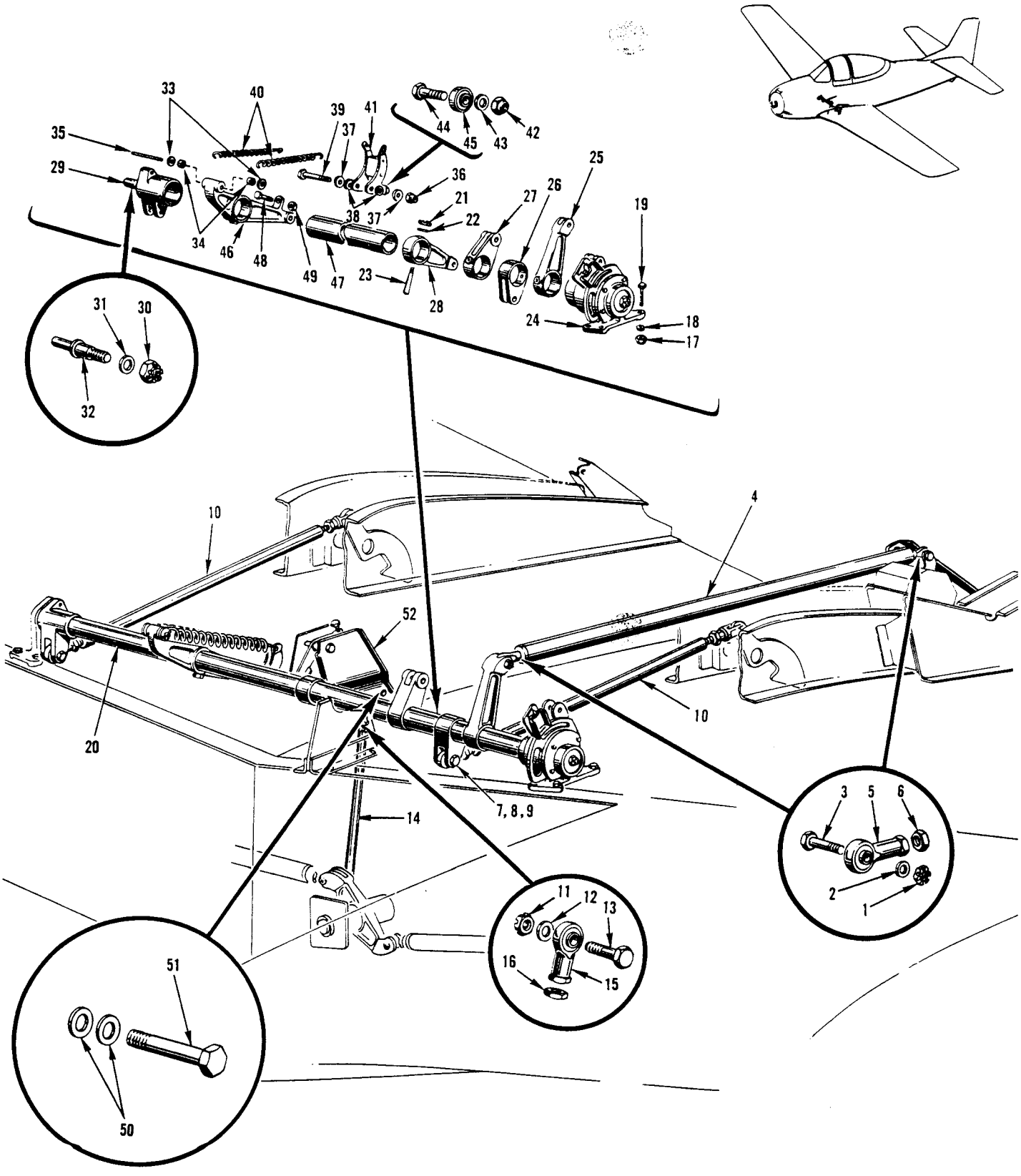


FIGURE 206 - ALIGHTING GEAR MASTER CONTROL TORQUE SHAFT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
206	159-33015	TORQUE SHAFT INSTL, Alighting gear master control (see fig. 4 for next assy)	NP	
-1	AN320-3	. NUT	2	
-2	AN960-10	. WASHER	2	
-3	AN23-17	. BOLT (forward)	1	
	AN23-16	. BOLT (aft)	1	
-4	159-33441-13	. ROD ASSY, Alighting gear master control shaft connecting	1	
-5	REB3N2	. . END, Rod (Fafnir Bearing)	2	
-6	AN316-5R	. . NUT	2	
-7	AN320-4	. NUT	2	
-8	AN960-416	. WASHER	2	
-9	AN24-21	. BOLT	2	
-10	159-33454	. BUNGEE ASSY, Main alighting gear uplock (refer to T. O. 1601-1-114 for list of detail parts)	2	
-11	AN320-3	. NUT	2	
-12	AN960-10	. WASHER	2	
-13	AN23-17	. BOLT	2	
-14	159-33470	. ROD ASSY, Main alighting gear downlock actuating vertical	1	
-15	REB3N	. . END, Rod (Fafnir Bearing)	2	
-16	AN316-3R	. . NUT	2	
-17	AN365-428	. NUT	1	
-18	AN960-16	. WASHER	1	
-19	AN4-10A	. BOLT	1	
-20	159-33444-10 *1	. SHAFT ASSY, Alighting gear master control actuating torque	1	
-21	AN320-3	. . NUT	1	
-22	AN975-5	. . WASHER	1	
-23	AN386-2-14	. . PIN	1	
-24	[illegible] *1	. . LATCH ASSY, LH lever up and down (Reid)	1	
-25	159-33-48	. . BELLCRANK, Main alighting gear master control shaft selector valve actuating	1	
-26	159-33-9	. . BELLCRANK, Main landing gear master control shaft LH uplock	1	
-27	159-33-61	. . BELLCRANK, Auxiliary landing gear down and uplock operating	1	
-28	159-33-47	. . BELLCRANK, Main landing gear control shaft downlock rod actuating	1	
-29	159-33-6	. . BELLCRANK ASSEMBLY, Main landing gear master control shaft RH uplock	1	
-30	AN310-5	. . . NUT	1	
-31	AN960-516	. . . WASHER	1	
-32	159-33-62	. . . PIN, Alighting gear master control shaft pivot RH	1	
-33	SW1AZ10-16-032	. . WASHER, Flat (North American)	2	
-34	MAS43-8-10A	. . SPACER, Bolt (supersedes -S8-11-5)	2	
-35	159-33-66	. . PIN, Main landing gear operating handle safety switch spring attaching	1	
-36	AN320-3	. . NUT	1	
-37	AN960-10L	. . WASHER	2	
-38	-B21S3-003	. . BUSHING, Spacer (North American)	2	
-39	AN23-21	. . BOLT	1	
-40	159-54221	. . SPRING, Alighting gear safety switch bellcrank operating	2	
-41	159-33-17	. . BELLCRANK ASSEMBLY, Main landing gear operating handle safety switch	1	
-42	AN365-1032	. . . NUT	1	
-43	AN960-10L	. . . WASHER	2	
-44	AN3-6A	. . . BOLT	1	
-45	K3L3	. . . ROLLER (Fafnir Bearing)	1	
-46	159-33469	. . BELLCRANK, Main alighting gear master control shaft safety solenoid actuating	1	
-47	159-33444-3	. . TUBE, Alighting gear master control actuating torque	1	
-48	3E1-14	. . BOLT, Adjustment 1/2 (North American)	1	
-49	AN341-10	. . NUT	1	
-50	AN960-10L	. WASHER	2	
-51	AN3-3A	. BOLT	2	
-52	159-54218	. SOLENOID ASSEMBLY, Alighting gear safety switch operating (see figure 22A for detail breakdown)	1	

*1 Refer to T. O. 1T-28A-523.

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ALIGHTING GEAR (Cont)

FIGURE 207 DELETED

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ALIGHTING GEAR (Cont)

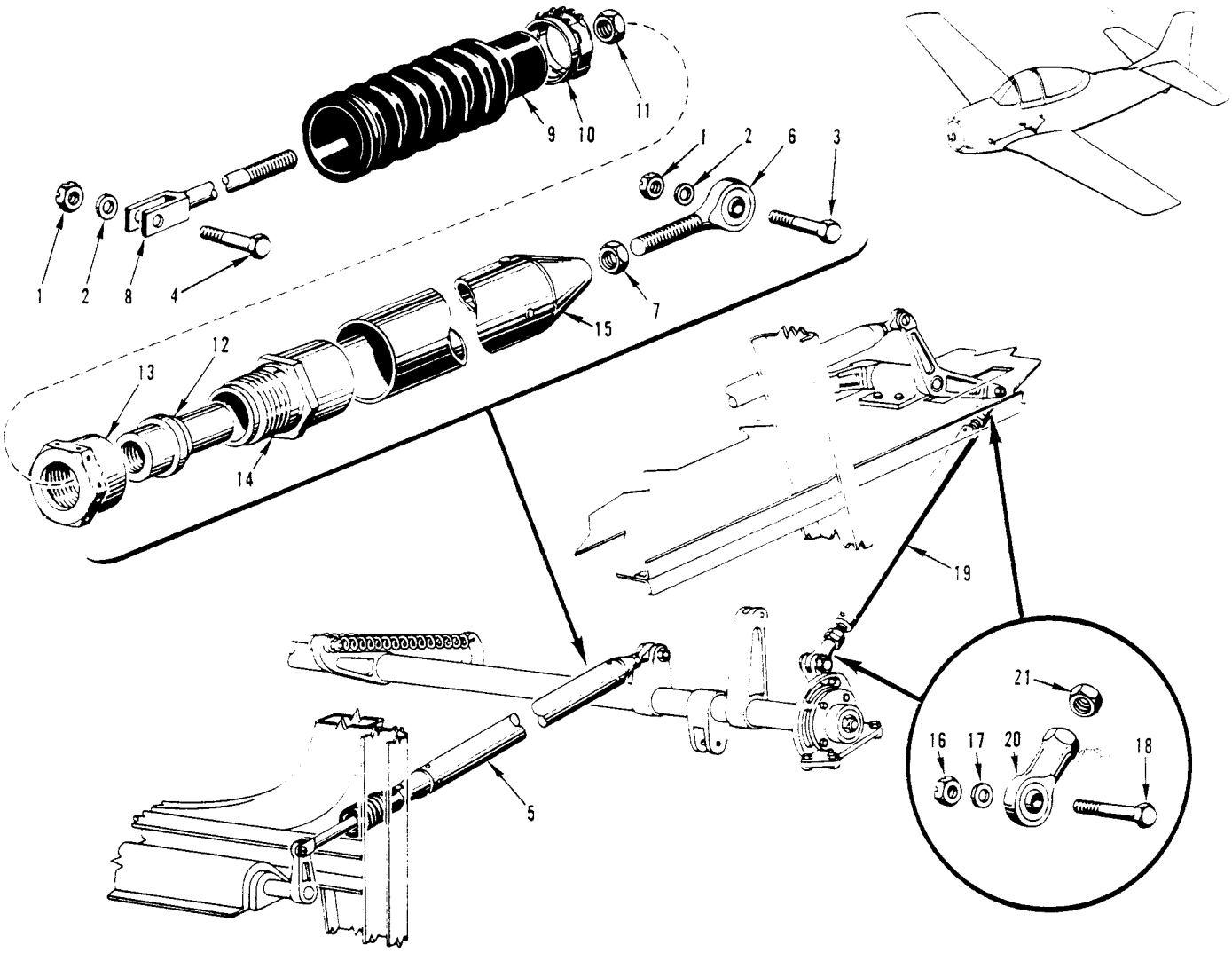


FIGURE 208 - WING TO FUSELAGE ALIGHTING GEAR CONTROL SYSTEM

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
208	159-33019	ALIGHTING GEAR CONTROL SYSTEM INSTALLATION, Wing to fuselage (see figure 3 for next assembly)	NP	
-1	AN320-3	. NUT	2	
-2	AN960-10	. WASHER	2	
-3	AN23-19	. BOLT	1	
-4	AN23-17	. BOLT	1	
-5	159-34402	. ROD ASSY, Aux alighting gear uplock hook operating	1	
-6	RE3M6A	. . ROD END (Fafnir Bearing)	1	
-7	AN316-6R	. . NUT	1	
-8	159-34422	. . CLEVIS, Aux alighting gear uplock hook operating rod	1	
-9	159-34424	. . SEAL, Auxiliary alighting gear uplock hook operating rod firewall	1	
-10	A3122-16-1	. . CLAMP (Tinnerman)	1	
-11	AN316-6R	. . NUT	1	
-12	159-34426	. . PLUG, Auxiliary alighting gear uplock hook operating rod end	1	
-13	159-34427	. . COLLAR, Aux alighting gear uplock operating rod end	1	
	159-34402-5	. . ROD SUB-ASSY, Aux alighting gear uplock hook operating	1	
-14	159-34428	. . . TUBE END, Aux alighting gear uplock hook operating fwd.	1	
-15	159-34403	. . . TUBE END, Aux alighting gear uplock hook operating	1	
-16	AN320-3	. NUT	2	
-17	AN960-10	. WASHER	2	
-18	AN23-17	. BOLT	2	
-19	159-33441-11	. ROD ASSY, Alighting gear master control shaft connecting	1	
-20	REB3N2	. . ROD END (Fafnir Bearing)	2	
-21	AN316-5R	. . NUT	2	

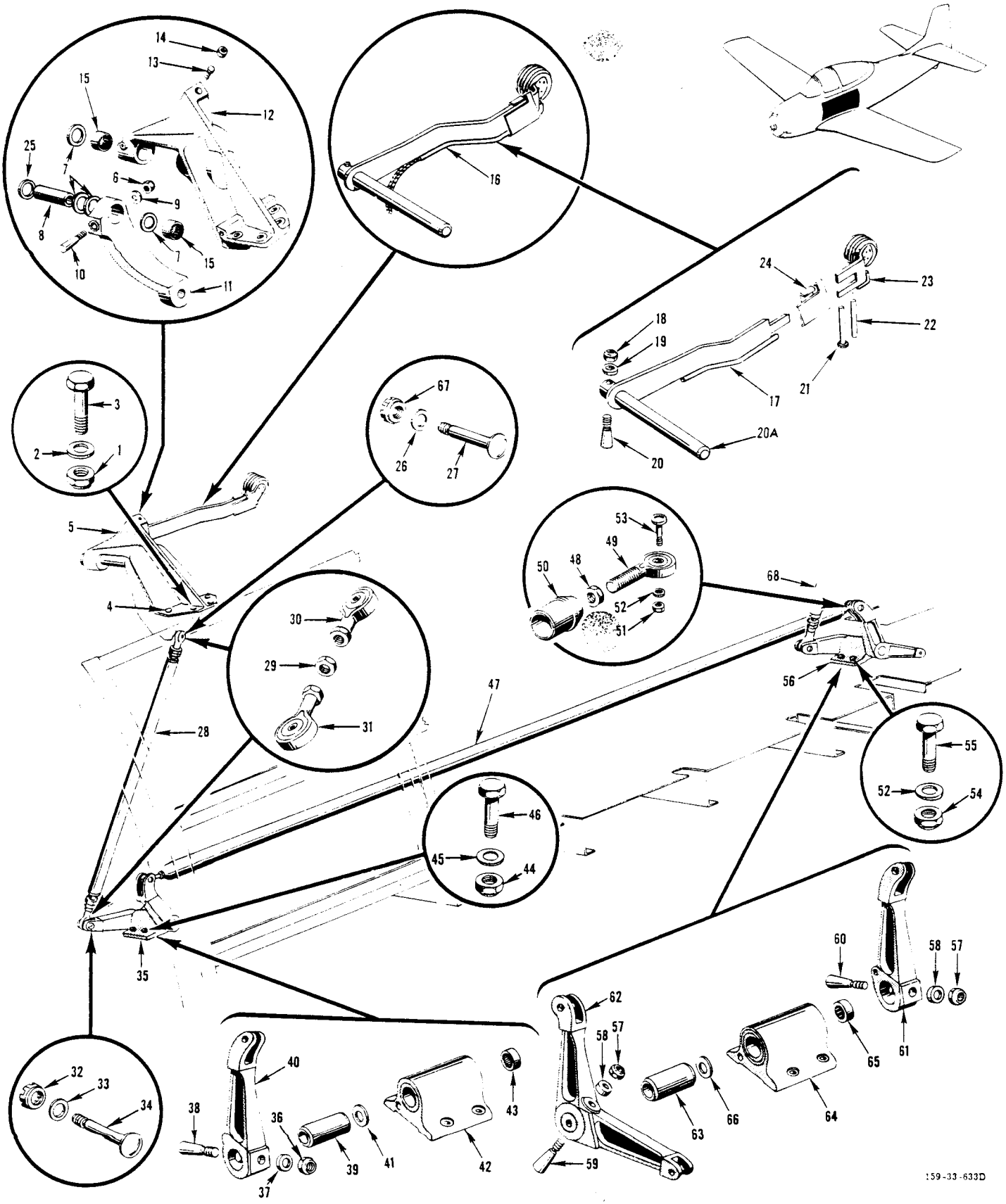


FIGURE 209 - LH SIDE PANEL ALIGHTING GEAR CONTROL SYSTEM

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
209	159-33016	ALIGHTING GEAR CONTROL SYSTEM INSTALLATION, LH side panel (see figure 62 for next assembly)	NP	
-1	AN365-1032	. NUT	8	
-2	AN960-10	. WASHER	8	
-3	AN3-5A	. BOLT	5	
-4	AN3-6A	. BOLT	3	
-5	159-33410	. BELLCRANK ASSEMBLY, Alighting gear forward cockpit handle	1	
-6	AN364-1032	. . NUT	1	
-7	2W1-52-36-32	. . WASHER, Plain (North American)	6	
-8	159-33408	. . SPACER, Alighting gear forward cockpit handle bellcrank	1	
-9	AN975-3	. . WASHER	1	
-10	AN386-2-11A	. . PIN	1	
-11	159-33411-3	. . BELLCRANK, Alighting gear forward cockpit control handle to vertical rod	1	
-12	159-33409	. . SUPPORT ASSEMBLY, Alighting gear forward cockpit handle	1	
-13	R20SSH5-5	. . . INSERT, Two piece locked (Rosan)	1	
-14	RL23SB7	. . . RING, Lock (Rosan)	1	
-15	B1212	. . . BEARING, Open end (Torrington)	2	
-16	159-33402	. . HANDLE ASSEMBLY, Alighting gear control forward cockpit	1	
-17	159-33405	. . . ARM ASSEMBLY, Alighting gear forward cockpit control	1	
-18	AN365-1032	. . . . NUT	1	
-19	AN975-3	. . . . WASHER	1	
-20	AN386-1-8A	. . . . PIN	1	
-20A	159-33422-5	. . . . SHAFT, Alighting gear control forward and aft floor bellcrank	1	
-21	159-33434-3	. . . PIN, Alighting gear cockpit control hinge	1	
-22	159-33434-5	. . . PIN, Alighting gear cockpit control hinge	1	
-23	159-54344-3	. . . HANDLE ASSEMBLY, Electrical alighting gear control cockpit (see figure 210 for detail breakdown)	1	
-24	159-54446	. . . CLIP, Fwd alighting gear control handle elec wire protecting	1	41-
-25	2W1-52-32-32	. . WASHER, Plain (North American)	1	113-
-26	AN960-416	. WASHER	1	
-27	AN2-26	. BOLT	1	
-28	159-33415	. ROD ASSY, Alighting gear handle to floor forward and aft	1	
-29	AN316-5R	. . NUT	2	
-30	REB3N2	. . BEARING, Rod end (Fafnir Bearing)	1	
-31	RE4T5	. . BEARING, Rod end (Fafnir Bearing)	1	
-32	AN320-3	. NUT	1	
-33	AN960-10	. WASHER	1	
-34	AN23-17	. BOLT	1	
-35	159-33419	. BELLCRANK ASSEMBLY, Alighting gear forward floor	1	
-36	AN364-1032	. . NUT	2	
-37	AN975-3	. . WASHER	2	
-38	AN386-2-11A	. . PIN	2	
-39	159-33422-3	. . SHAFT, Alighting gear control forward and aft floor bellcrank	1	
-40	159-33420	. . ARM, Alighting gear handle to floor operating	2	
-41	2W1-52-36-32	. . WASHER, Plain (North American)	2	
-42	159-33425	. . FITTING ASSEMBLY, Alighting gear forward and aft floor bellcrank support	1	
-43	B1212	. . . BEARING (Torrington)	2	
-44	AN365-1032	. NUT	4	
-45	AN960-10	. WASHER	4	
-46	AN3-6A	. BOLT	4	
-47	159-33437	. ROD ASSEMBLY, Alighting gear control forward and aft cockpit connecting	1	
-48	AN316-6R	. . NUT	2	
-49	RE3T6-2N	. . BEARING, Rod end (Fafnir Bearing)	2	
-50	159-33438	. . ROD END, Alighting gear control forward and aft cockpit connecting	2	
-51	AN320-3	. NUT	2	
-52	AN960-10	. WASHER	6	
-53	AN23-17	. BOLT	2	
-54	AN365-1032	. NUT	4	
-55	AN3-6A	. BOLT	4	
-56	159-33428	. BELLCRANK ASSEMBLY, Alighting gear aft floor	1	
-57	AN364-1032	. . NUT	2	
-58	AN975-3	. . WASHER	2	
-59	AN386-2-12A	. . PIN	1	
-60	AN386-2-11A	. . PIN	1	
-61	159-33420	. . ARM, Alighting gear handle to floor operating	1	
-62	159-33429	. . BELLCRANK, Alighting gear aft floor connecting tube to master control shaft	1	
-63	159-33422-3	. . SHAFT, Alighting gear control forward and aft floor bellcrank	1	
-64	159-33425	. . FITTING ASSEMBLY, Alighting gear forward and aft floor bellcrank support	1	
-65	B1212	. . . BEARING (Torrington)	2	
-66	2W1-52-36-32	. . WASHER, Plain (North American)	2	
-67	AN320-4	. NUT	1	
-68	159-33415	ROD ASSEMBLY, Alighting gear handle to floor forward and aft (figure 210)	Ref	

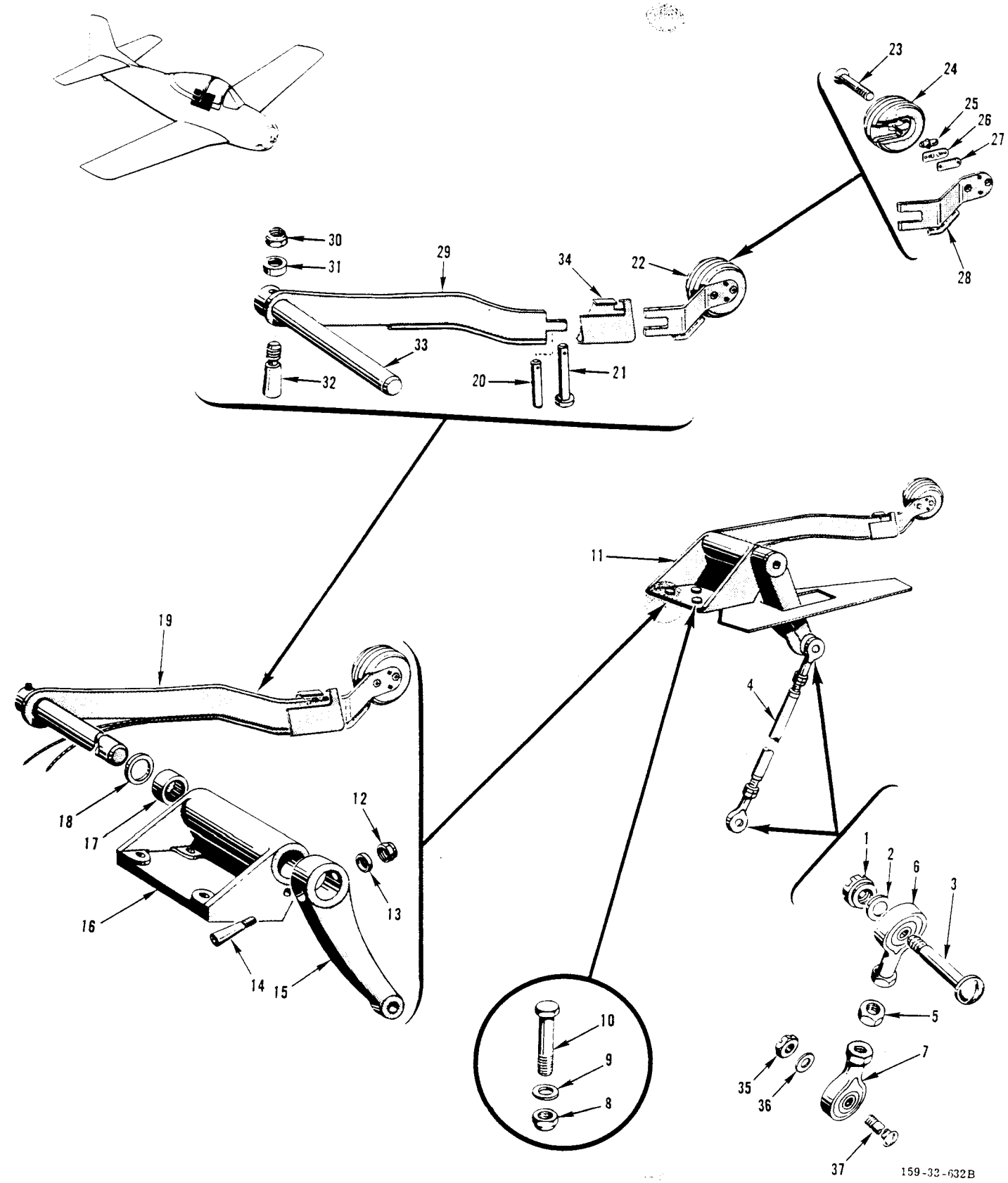
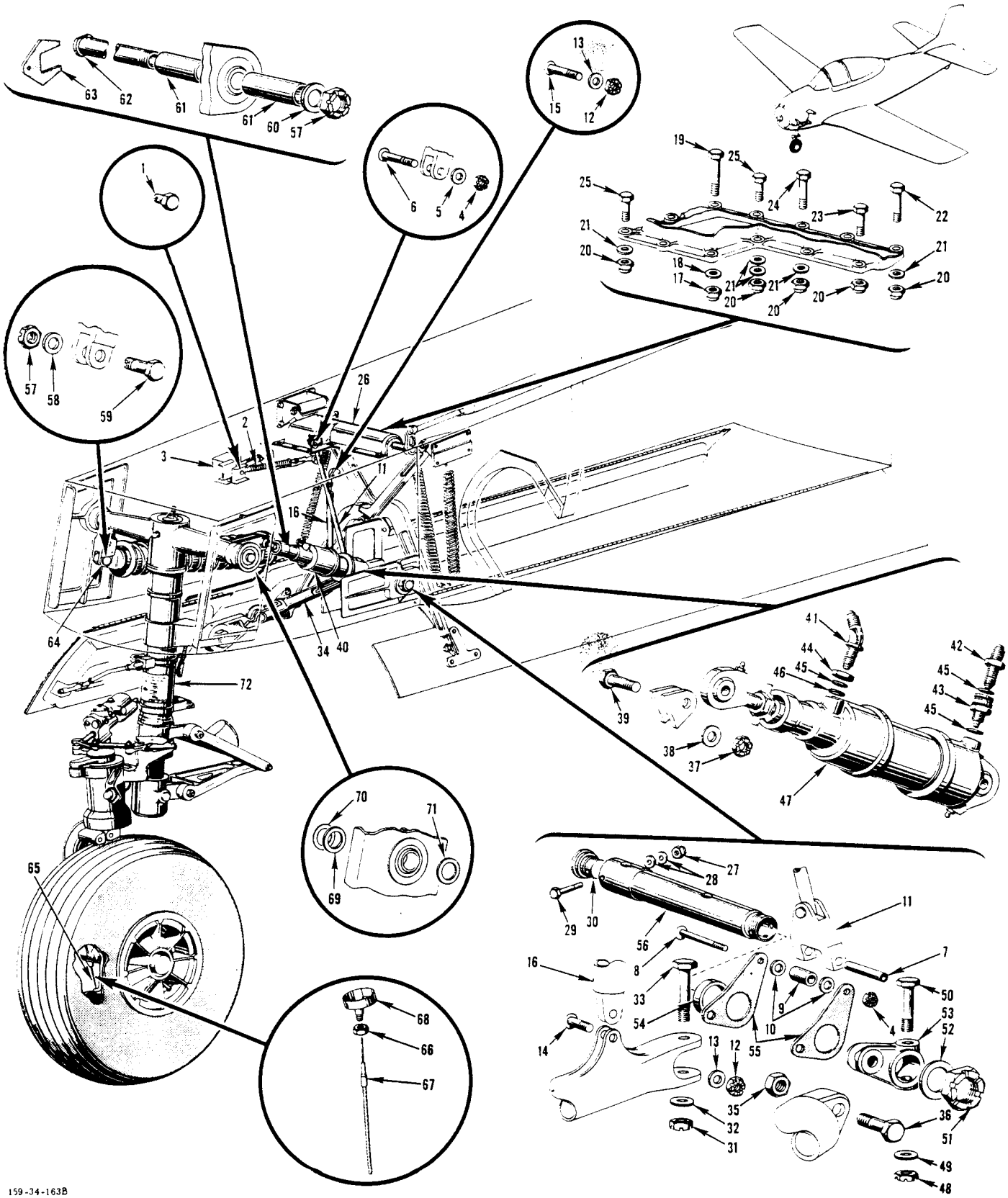


FIGURE 210 - REAR COCKPIT ALIGHTING GEAR CONTROL SYSTEM

ALIGHTING GEAR (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
210	159-33018	ALIGHTING GEAR CONTROL SYSTEM INSTALLATION, Rear cockpit (see figure 51 for next assembly)	NP	
-1	AN320-4	. NUT	1	
-2	AN960-416	. WASHER	1	
-3	AN24-25	. BOLT	1	
-4	159-33415	. ROD ASSY, Alighting gear handle to floor forward and aft	1	
-5	AN316-5R	. . NUT	2	
-6	REB3N2	. . BEARING, Rod end (Fafnir Bearing)	1	
-7	RE4F5	. . BEARING, Rod end (Fafnir Bearing)	1	
-8	AN365-1032	. NUT	4	
-9	AN960-10	. WASHER	4	
-10	AN3-6A	. BOLT	4	
-11	159-33414	. BELLCRANK ASSEMBLY, Alighting gear control handle aft cockpit	1	
-12	AN364-1032	. . NUT	1	
-13	AN975-3	. . WASHER	1	
-14	AN386-2-12A	. . PIN	1	
-15	159-33403-3	. . BELLCRANK, Alighting gear rear cockpit control handle to vertical rod	1	
-16	159-33412	. . SUPPORT ASSY, Main alighting gear rear cockpit handle	1	
-17	B1212	. . . BEARING (Torrington)	2	
-18	2W1-52-36-32	. . WASHER, Plain (North American)	2	
-19	159-33406	. . HANDLE ASSEMBLY, Alighting gear control aft cockpit	1	
-20	159-33434-5	. . . PIN, Alighting gear cockpit control handle hinge	.	
-21	159-33434-3	. . . PIN, Alighting gear cockpit control handle hinge	1	
-22	159-54344-5	. . . HANDLE ASSY, Electrical alighting gear control cockpit (rear cockpit) (superseded by 159-54344-3. 159-54344-3 may be used interchangeably with 159-54344-5 until stock is exhausted)	1	4-268
	159-54344-3	. . . HANDLE ASSEMBLY, Electrical alighting gear control cockpit (see figure 209 for next assembly in front cockpit)	1	
-23	AN509-8R12	. . . . SCREW	2	
-24	159-54339	. . . . KNOB, Electrical alighting gear handle	1	
-25	327	. . . . LAMP, T1 3/4 Bulb midget flange base (General Electric)	1	
-26	159-54345	. . . . SUPPORT ASSEMBLY, Electrical alighting gear handle light	1	
-27	159-54349	. . . . INSULATOR, Alighting gear handle light	1	
-28	159-33432	. . . . ARM ASSY, Alighting gear control aft cockpit handle (superseded by 159-33433)(used on 159-54344-5 only)	1	4-268
	159-33433	. . . . ARM ASSEMBLY, Alighting gear control cockpit handle	1	
-29	159-33407	. . . ARM ASSEMBLY, Alighting gear aft cockpit control	1	
-30	AN365-1032	. . . . NUT	1	
-31	AN975-3	. . . . WASHER	1	
-32	AN386-1-8A	. . . . PIN	1	
-33	159-33422-7	. . . . SHAFT, Alighting gear control forward and aft floor bellcranks	1	
-34	159-54443	. . . CLIP, Aft alighting gear control handle electrical wire protecting	1	41-
-35	AN320-3	. NUT	1	
-36	AN960-10	. WASHER	1	
-37	AN23-17	. BOLT	1	

ALIGHTING GEAR (Cont)



159-34-163B

FIGURE 211 - AUXILIARY ALIGHTING GEAR

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
211	159-34031	AUXILIARY ALIGHTING GEAR INSTL (see fig. 51 for next assembly) .	NP	
	No Number	. AUXILIARY ALIGHTING GEAR STRUT WHEEL DOOR EQUIPMENT . . . . . (see figure 212 for detail breakdown)	NP	

ALIGHTING GEAR (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
211-1	159-34425		PIN, Auxiliary alighting gear uplock hook bungee fitting	2	
	AN960-10L		WASHER (aft)	1	
-2	159-34417	*2	BUNGEE ASSEMBLY, Auxiliary alighting gear uplock hook	1	4-328
	159-34417-10	*2	BUNGEE ASSEMBLY, Auxiliary alighting gear uplock hook	1	329-
-3	159-34214		MECHANISM ASSEMBLY, Auxiliary alighting gear uplock switch (see figure 205 for detail breakdown)	2	4-328
-4	AN320-3		NUT	2	
-5	AN960-10		WASHER	1	
-6	AN23-17		BOLT	1	
-7	159-34415		SPACER, Alighting gear downlock operating bellcrank	1	
-8	AN23-36		BOLT	1	
	AN960D10		WASHER	1	
-9	159-34429		SPACER, Landing gear downlock upper clevis bearing seal	1	
-10	159-34430		SEAL, Landing gear downlock operating clevis bearing	2	
-11	159-34410-3		ROD ASSEMBLY, Alighting gear downlock operating (see figure 210 for detail breakdown	1	
-12	AN320-3		NUT	2	
-13	AN960-10		WASHER	2	
-14	AN23-19		BOLT	1	
-15	AN23-14		BOLT	1	
-16	159-33150		BUNGEE ASSY, LG brace (see fig. 202 for detail breakdown	1	
-17	AN365-1232		NUT	2	
-18	AN960-16		WASHER	2	
-19	AN4-12A		BOLT	2	
-20	AN365-1032		NUT	12	
-21	AN960-10		WASHER	12	
-22	AN4-12A		BOLT	1	
-23	AN4-5A		BOLT	1	
-24	AN4-11A		BOLT	2	
-25	AN4-5A		BOLT	5	
-26	159-34411		STRUT ASSY, Aux LG (see fig. 217 for detail breakdown	1	
-27	AN365-1232		NUT	1	
-28	AN960-416		WASHER	1	
-29	AN4-24A		BOLT	1	
-30	159-33122-3		RETAINER, Alighting gear side brace downlock bellcrank	1	
-31	AN320-3		NUT	1	
-32	AN960-416		WASHER	1	
-33	159-33111-5		BOLT, Alighting gear brace	1	
-34	159-33103		BRACE ASSY, Alighting gear (see fig.211 for detail breakdown)	1	-- 271, 32+-
	159-33103-10		BRACE ASSY, Alighting gear (see fig.211 for detail breakdown)	1	272-[illegible]
-35	AN320-3	*1	NUT	1	
-36	159-34121		BOLT, Aux alighting gear drag brace operating cyl attaching	1	
-37	AN320-3		NUT	1	
-38	AN960-416		WASHER	1	
-39	159-34140		BOLT, Aux alighting gear operating cylinder attaching	1	
-40	159-33630		CYLINDER ASSY, Hyd aux alighting gear complete operating	1	
-41	AN837-6D		. ELBOW	1	
-42	AN815-6D		. UNION	1	
-43	159-33430		. VALVE, Hydraulic two-way restrictor	1	
-44	AN6290-6		. NUT	1	
-45	AN6289-6		. JACKET	3	
-46	AN6291-6		. RING	1	
-47	159-33030		. CYLINDER ASSY, Hydraulic aux LG operating (for a list of detail parts refer to AN 01-60CK2	1	
-48	AN320-3	*1	NUT	1	
-49	AN960-916		WASHER	1	
-50	AN173-27		BOLT	1	
-51	159-34119		NUT, Auxiliary alighting gear drag brace shaft	1	
-52	2W1-50-56-63		WASHER, Plain (North American)	1	
-53	159-34120-3		ARM, Aux alighting gear drag brace operating cylinder	1	
-54	159-34122		SPACER, Auxiliary alighting gear drag brace shaft	1	
-55	159-34115		BELLCRANK, Auxiliary alighting gear downlock operating	2	
-56	159-34118		SHAFT, Auxiliary alighting gear brace	1	
-57	AN320-10		NUT	2	
-58	AN960-1016		WASHER	1	
-59	159-34141		BOLT, Auxiliary alighting gear bungee	1	
-60	2W1AL48-32-125		WASHER Plain (North American)	1	
-61	159-34161		SPACER, Auxiliary alighting gear emergency bungee shaft	2	
-62	159-34160		SHAFT, Auxiliary alighting gear emergency bungee	1	
-63	159-34162		RETAINER, Aux alighting gear emergency bungee shaft	1	
-64	159-34150	*2	BUNGEE ASSEMBLY, Auxiliary alighting gear emergency	1	
-65	159-34256		WIRE ASSEMBLY, Static ground	1	
-66	-1A-134		. NUT, Static ground wire attaching plate	1	
-67	-W2-26		. WIRE ASSY, Static ground (North American)	1	
-68	159-34251		. CLAMP ASSEMBLY, Static ground wire	1	
-69	2W1270-48-14		WASHER, Plain (North American)	AR	
-70	2W1270-48-32		WASHER, Plain (North American)	AR	
-71	2W1270-48-63		WASHER, Plain (North American)	AR	
-72	159-34101-10		CHASSIS ASSY, Aux LG (see fig. 213 for detail breakdown)	1	4--0
	159-34101		CHASSIS ASSY, Aux LG (see fig. 213 for detail breakdown)	1	41-399
	159-34101-30		CHASSIS ASSY, Aux LG (see fig. 213 for detail breakdown)	1	394-

*1 Self locking nut part number AN365-416 may be substituded.

*2 Refer to T. O. 1601-1-114 for list of detail parts

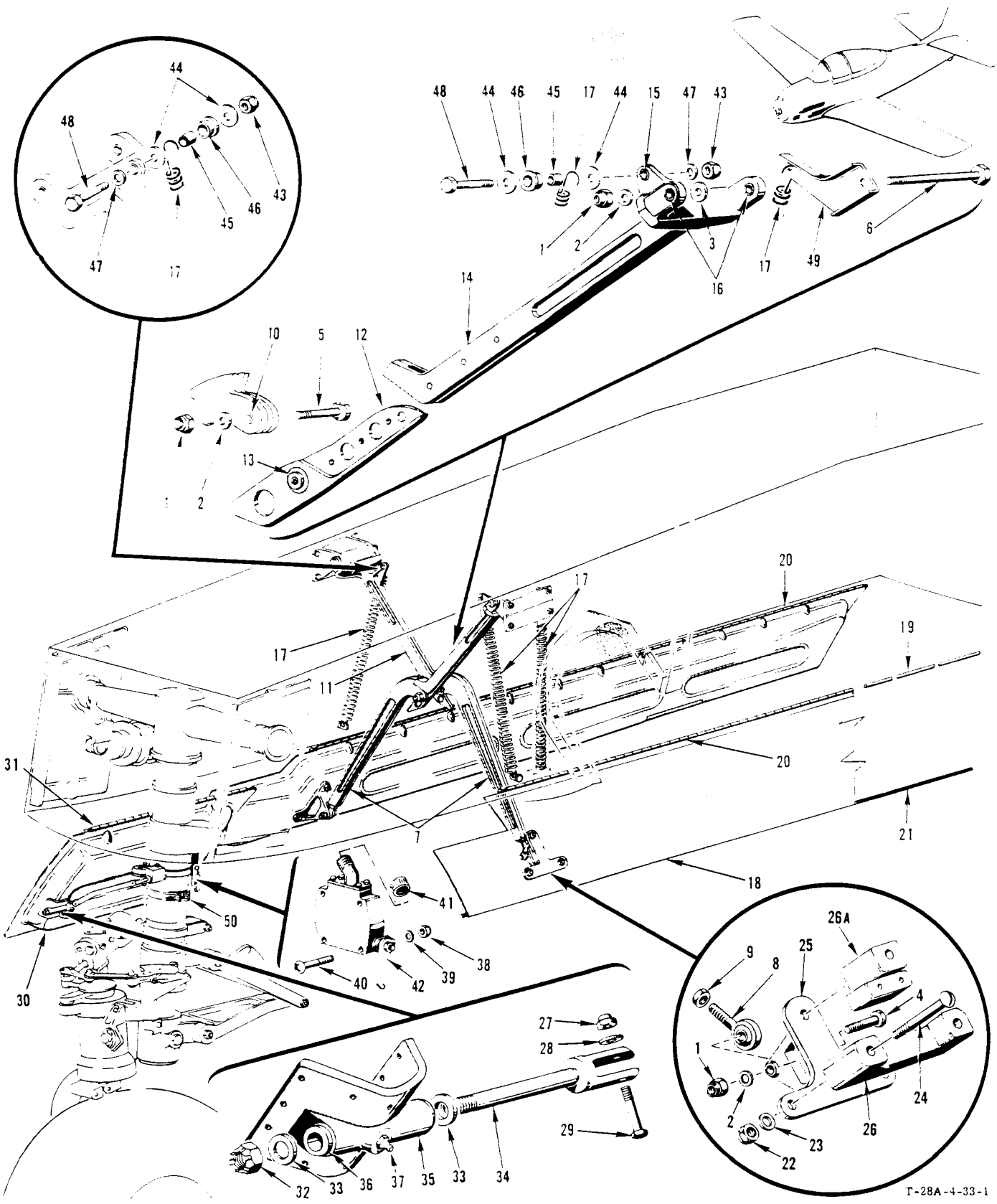


FIGURE 212 - AUXILIARY ALIGHTING GEAR STRUT AND WHEEL DOORS EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
212	No Number		AUXILIARY ALIGHTING GEAR STRUT AND WHEEL DOORS EQUIPMENT . . . . (see Figure 211 for next assembly)	NP	
-1	AN365-1032	.	NUT	6	
-2	AN960D10	.	WASHER	6	
-3	2W1-13-22-64	.	WASHER, Plain (North American)	AR	
-4	AN3-7A	.	BOLT (magnetic inspected	2	
-5	159-34316	.	ROD, Auxiliary alighting gear wheel door links attaching . .	2	
-6	AN3-6A	.	BOLT (magnetic inspected LH only)	1	
	AN3-5A	.	BOLT (magnetic inspected RH only)	1	
-7	159-34312-8	.	LINK ASSEMBLY, Auxiliary alighting gear wheel door lower . .	2	
-8	RE4M6A	. .	ROD END (Fafnir Bearing	2	
-9	AN365-5R	. .	NUT	2	
-10	MS21208-006	. .	BUSHING, Press fit plain (North American)	2	
-11	159-34311	.	LINK ASSEMBLY, Auxiliary alighting gear wheel door upper . .	2	
-12	159-34317	. .	PLATE ASSEMBLY, Auxiliary alighting gear wheel door upper link	1	
-13	AN930KB1	. . .	BEARING	1	
-14	159-34-310-3	. .	LINK ASSEMBLY, Auxiliary alighting gear wheel door upper .	1	
-15	MS21208-005	. . .	BUSHING, Press fit plain (North American	1	
-16	MS21208-006	. . .	BUSHING, Press fit plain (North American	2	
-17	159-34314-10	.	SPRING, Tension (supersedes 159-34311 and 159-34304)	1	
-18	159-34305-25	.	DOOR ASSEMBLY, Auxiliary alighting gear wheel LH . . . . . (supersedes 159-34-311)	1	
	159-34305-2	.	DOOR ASSEMBLY, Auxiliary alighting gear wheel RH	1	
	ATTACHING PARTS				
-19	159-34323-8	.	PIN, Alighting gear door hinge	2	
	---*---				
-20	159-34325-15	. .	HOUSE, Jack	1	
-21	159-34325-21	. .	STUD, Pusher (LH only)	1	
-22	AN364-1032	. .	NUT	3	
-23	AN960D10	. .	WASHER	3	
-24	MS21251-4	. .	SCREW, Brazier head Phillips recess alloy steel 10-32 . . . . (magnetic inspected)	3	
-25	159-34306	. .	FITTING ASSEMBLY, Auxiliary alighting gear wheel door . . . . (link attaching)	1	
	MS21208-004	. .	BUSHING, Press fit plain (North American	2	
-26	159-34321	. .	SPACER, Aux alighting gear wheel door inboard	1	
-26A	159-34322	. .	SPACER, Aux alighting gear wheel door outboard	1	
-27	AN365-1032	.	NUT	1	
-28	AN960D10	.	WASHER	1	
-29	AN3-7A	.	BOLT (magnetic inspected	1	
-30	159-34301	.	DOOR ASSEMBLY, Auxiliary alighting gear strut	1	(--822)
	159-34301-10	.	DOOR ASSEMBLY, Auxiliary alighting gear strut	1	822-
	ATTACHING PARTS				
-31	159-34324	.	PIN, Auxiliary alighting gear strut door hinge	1	
	---*---				
-32	AN310-5	. .	NUT	1	
-33	AN960-516	. .	WASHER	2	
-34	159-34332	. .	SLEEVE, Auxiliary alighting gear strut door fitting . . .	1	
-35	159-34331	. .	FITTING ASSEMBLY, Auxiliary alighting gear strut door . .	1	
-36	MS20005-018	. . .	BUSHING, Press fit flanged (North American	2	
-37	MA82-101	. . .	FITTING, Lubrication	1	
-38	AN364-632	.	NUT	4	329-
-39	AN960D6	.	WASHER	4	329-
-40	AN526-632R22	.	SCREW	4	329-
	171-54059	.	HOUSING ASSY, Auxiliary alighting gear uplock switch	1	329-
-41	AN3054-6	. .	NUT	1	329-
	AN3067-5	. .	SEAL ASSEMBLY	1	329-
-42	LMB53	. .	SWITCH ASSEMBLY (Micro Switch)	1	329-
-43	AN364-1032	.	NUT	2	
-44	2W1-13-20-31	.	WASHER, Plain (North American)	4	
-45	MB21S3-008	.	BUSHING, Spacer (North American)	2	
-46	MS20B5-005	.	BUSHING, Press fit flanged (North American)	2	
-47	AN960C10L	.	WASHER	2	
-48	AN3-6A	.	BOLT	2	
-49	159-34333	.	BRACKET, Auxiliary alighting gear RH door link spring . . . . attaching (supersedes 159-34308 for future procurement.	1	
-50	325-625-3.250S	.	CLAMP, Light weight T-bolt (Marman Products)	1	329-

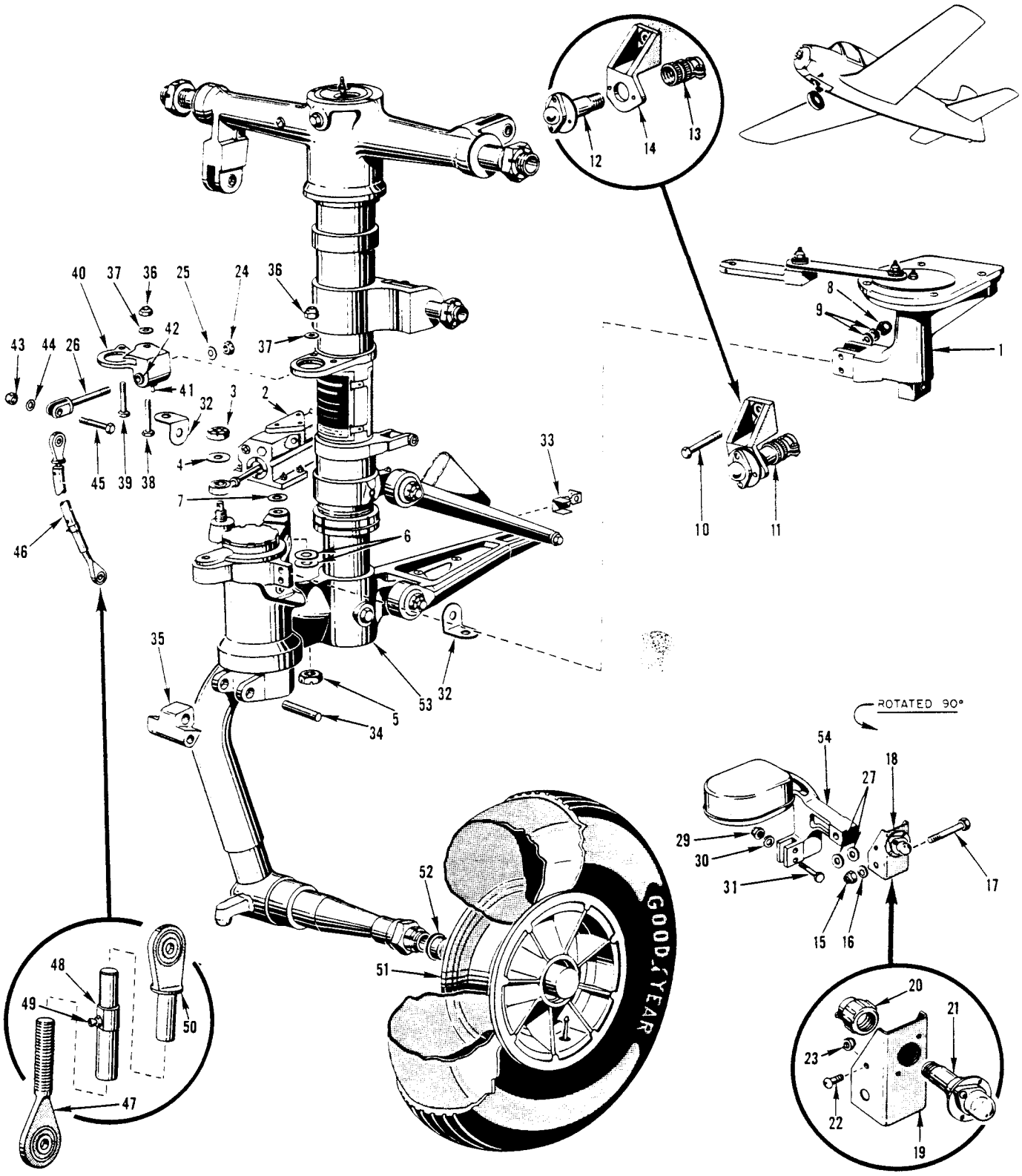
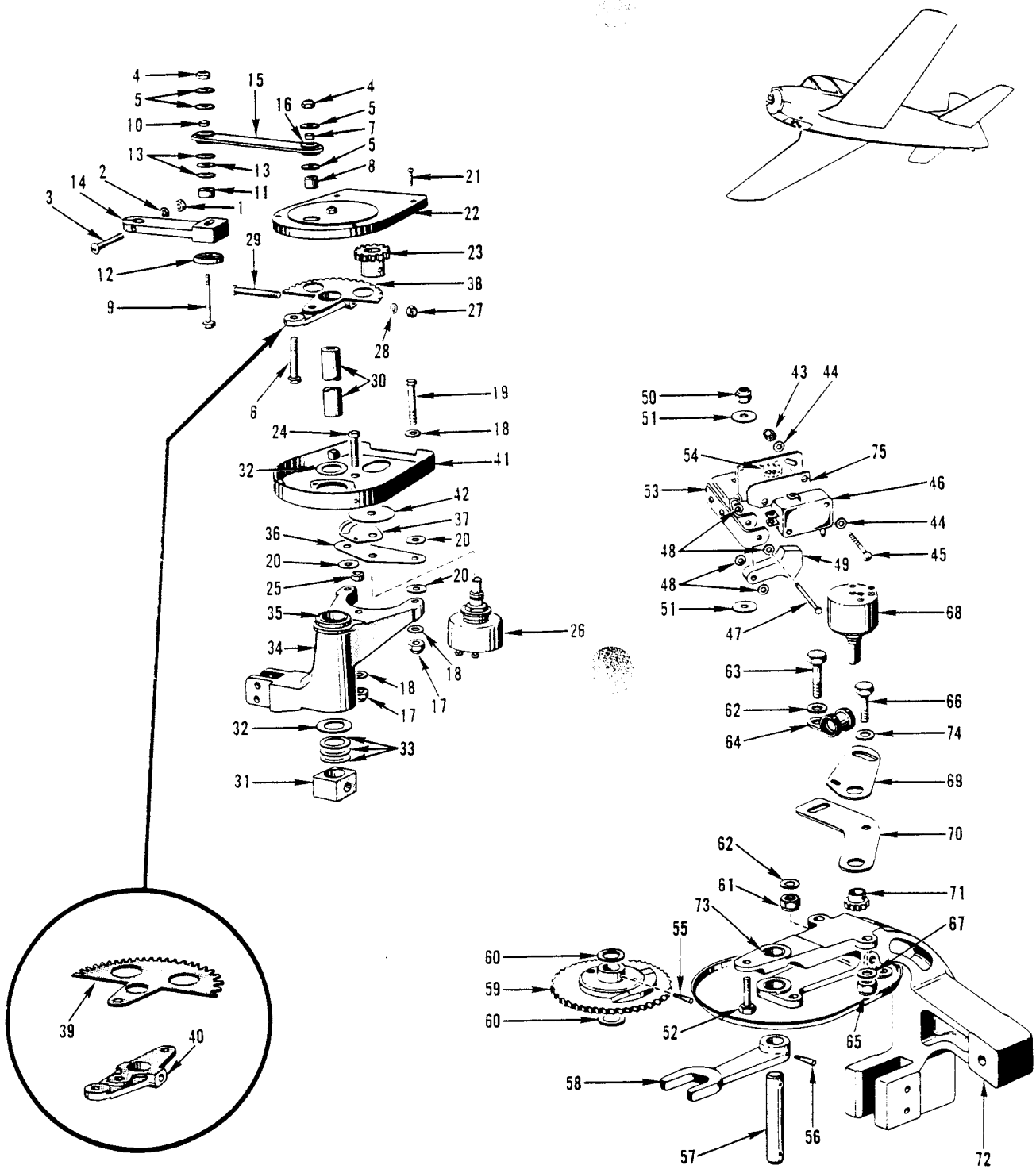


FIGURE 213 - AUXILIARY ALIGHTING GEAR CHASSIS ASSEMBLY

ALIGHTING GEAR (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
213	159-34101-10	CHASSIS ASSY, Aux alighting gear (see fig. 211 for next assy) .	Ref	4-40
	159-34101	CHASSIS ASSY, Aux alighting gear (see fig. 211 for next assy) .	Ref	41-393
	159-34101-30	CHASSIS ASSY, Aux alighting gear (see fig. 211 for next assy) .	Ref	394-
-1	No Number	. AUXILIARY ALIGHTING GEAR STEERING MECHANISM . . . . . (see figure 214 for detail breakdown)	NP	4-40
	159-34322	. MECHANISM ASSY, Aux alighting gear steering elec follow-up . (see figure 214 for detail breakdown)	1	41-393
	159-34322-10	. MECHANISM ASSY, Aux alighting gear steering elec follow-up . (see figure 214 for detail breakdown)	1	394-
-2	159-34201-30	. DAMPER ASSY, Auxiliary alighting gear steering and shimmy . (supersedes 159-34201-10 & -20) (for a list of detail parts refer to F. D. 4SA2-3--4)	1	
	ATTACHING PARTS			
-3	AN320-10	. NUT	1	
-4	2W1-44--1-64	. WASHER, Plain (North American)	1	
-5	AN320D14	. NUT	1	
-6	2W1-58--8-64	. WASHER, Plain (North American)	2	
-7	2W1-58--8-14	. WASHER, Plain (North American)	AR	
	---*---			
-8	AN365-1032	. NUT	2	4-40,394-
-9	AN960D10	. WASHER	4	4-40,394-
-10	AN3-15A	. BOLT	2	4-40,394-
-11	159-34174	. LIGHT ASSY, Aux alighting gear extended indicator	1	4-40,394-
-11A	AN3092-1	. . LIGHT ASSEMBLY	1	4-40,394-
-11B	AN3057-3	. . ADAPTER	1	4-40,394-
-11C	159-34172	. . FITTING, Aux alighting gear extended indicator light sup.	1	4-40,394-
-11D	AN365--428	. NUT	1	41-393
-11E	AN960D416	. WASHER	1	41-393
-11F	AN4-16A	. BOLT	1	41-393
-11G	159-34324	. LIGHT ASSY, Auxiliary alighting gear extended indicator . .	1	41-393
-11H	159-34324-3	. . LIGHT ASSY, Auxiliary alighting gear extended indicator .	1	41-393
-11J	AN3057-3	. . ADAPTER	1	41-393
-11K	AN3092-1	. . LIGHT ASSY, Exterior surface mounting	1	41-393
-11L	AN515-6R6	. . SCREW	1	41-393
-11M	AN365-632	. . NUT	1	41-393
-11N	AN315-6	. NUT	1	
-11P	AN960-616	. WASHER	2	
-11Q	159-34330	. CLEVIS, Aux alighting gear strut door actuating fitting . .	1	
-11R	159-34241	. WASHER ASSY, Aux alighting gear bracket friction	2	--393
-11S	DELETED	. . . . .		
-11T	AN365-1032	. NUT	2	41-393
-11U	AN960D10	. WASHER	4	41-393
-11V	AN3-14A	. BOLT	2	41-393
-11W	159-34272-5	. CLIP, Electrical nose gear wire harness	2	4--0
-11X	159-34284-3	. CLIP, Electrical aux alighting gear wire harness	1	--40
-11Y	159-34114	. PIN, Auxiliary alighting gear tow lug adapter retainer . . .	1	
-11Z	159-34113	. FITTING, Aux alighting gear tow lug extension adapter . . .	1	
-34	AN365--428	. NUT	2	
-34A	AN960--416	. WASHER	2	
-38	AN4-11A	. BOLT (magnetic inspected)	1	
-39	AN4-10A	. BOLT (magnetic inspected)	1	
-40	159-34329	. FITTING ASSY, Aux alighting gear strut door actuating . . .	1	
-41	MAS2-101	. . FITTING, Lubrication	1	
-42	4B20S5-014	. . BUSHING, Press fit flanged (North American)	2	
-43	AN365-1032	. NUT	1	
-44	AN960D10	. WASHER	1	
-45	AN3-10A	. BOLT (magnetic inspected)	1	
-46	159-34325	. LINK ASSY, Auxiliary alighting gear strut door	1	
-47	159-34327	. . ROD END ASSY, Aux alighting gear strut door link adjusting	1	
	AN201KP3A	. . . BEARING	1	
-48	159-34328	. . PLUG ASSY, Auxiliary alighting gear strut door link . . .	1	
-49	MAS2-101	. . . FITTING, Lubrication	1	
-50	159-34326	. . ROD END ASSY, Auxiliary alighting gear strut door link .	1	
-51	530840M1	. WHEEL ASSEMBLY, 24 x 7.7 Type VII (Spec. AN-W6 or MIL-W5013) (AERNO 41-7813) (GFAE) (Goodyear)	1	
-52	511802	* . CAP, Aux alighting gear wheel bearing dust (Goodyear)(GFAE).	1	4-268
	9511135	* . CAP, Aux alighting gear wheel bearing dust (Goodyear)(GFAE).	1	269-393
	9511135	* . CAP, Aux alighting gear wheel bearing dust (Goodyear)(GFAE).	1	394-
	No Number	. CASING, 24 x 7.7 EHP type VII B (Spec. AN-C65 or MIL-C5041). (AERNO 41-7812)(GFAE)(Goodyear)(10 ply rating)	1	
	No Number	. TUBE, 24 x 7.7 EHP type VII (Spec. AN-T78B)(AERNO 41-7813) . (GFAE) (Goodyear)	1	4-268
	No Number	. TUBE, 24 x 7.7 EHP type VII (Spec. MIL-T5014) (AERNO . . . . 41-7815) (GFAE) (Goodyear)	1	269-
-53	RA75400-10	. STRUT ASSY, Aux gear shock (Axelson)(supersedes R75400) . . (United Aircraft Dwg No. RA75400-10) (NA Dwg No. 159-34102-10)(for a list of details refer to AN 03-25EJ2)	1	
-54	159-54314	SUPPORT ASSY, Aux alighting gear taxi light (see fig. 214) . .	Ref	

* 159-934142 may be substituted



159-34-172A

FIGURE 214 - AUXILIARY ALIGHTING GEAR STEERING MECHANISM

ALIGHTING GEAR (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
214	No Number	AUXILIARY ALIGHTING GEAR STEERING MECHANISM (see figure 213 for next assembly)	NP	4-40
-1	AN365-1032	. NUT	1	4-40
-2	AN960D10	. WASHER	1	4-40
-3	AN173-12A	. BOLT	1	4-40
-4	AN365-1032	. NUT	2	4-40
-5	2W1-13-20-32	. WASHER, Plain (North American)	4	4-40
-6	AN3-13A	. BOLT	1	4-40
-7	4B21S3-011	. BUSHING, Spacer (North American)	1	4-40
-8	2W2SP13-14-343	. WASHER, Thrust (North American)	1	4-40
-9	AN3-16A	. BOLT	1	4-40
-10	4B21S3-012	. BUSHING, Spacer (North American)	1	4-40
-11	2W2SP13-14-281	. WASHER, Thrust (North American)	1	4-40
-12	159-54283	. WASHER, Aux alighting gear taxilight actuating arm adjusting	1	4-40
-13	2W1-20-20-32	. WASHER, Plain (North American)	3	4-40
-14	159-54176	. ARM, Auxiliary alighting gear taxilight	1	4-40
-15	159-54178	. LINK ASSY, Auxiliary alighting gear taxi light	1	4-40
-16	4B18-5-125	. BUSHING, Shoulder (North American)	2	4-40
-17	AN365-1032	. NUT	3	4-40
-18	AN960D10	. WASHER	5	4-40
-19	AN3-13A	. BOLT	2	4-40
-20	2W1-13-16-32	. WASHER, Plain (North American)	3	4-40
-21	AN526-8-10	. SCREW	4	4-40
-22	159-54224	. COVER ASSY, Aux alighting gear steering pot gear box	1	4-40
-23	159-54099	. GEAR ASSY, Auxiliary alighting gear steering pot drive	1	4-40
-24	AN3-6A	. BOLT	1	4-40
-25	4S3D10-4	. SPACER, Bolt (North American)	1	4-40
-26	SG15A	. POTENTIOMETER, Elec nose gear steering (Helipot)(North American No. 159-54054-3)	1	4-40
-27	AN320-3	. NUT	1	4-40
-28	AN960D10	. WASHER	1	4-40
-29	AN23-24	. BOLT	1	4-40
-30	159-54179	. TUBE, Auxiliary alighting gear taxi light torque	1	4-40
-31	159-54167	. SPACER, Auxiliary alighting gear taxi light	1	4-40
-32	2W2B41-32-93	. WASHER, Thrust (North American)	2	4-40
-33	2W1LB41-32-62	. WASHER, Plain (North American)	AR	4-40
-34	159-54166	. SUPPORT ASSEMBLY, Auxiliary alighting gear taxi light	1	4-40
-35	B1012	. . BEARING (Torrington)	2	4-40
-36	159-54276	. PLATE, Auxiliary alighting gear steering cam pot adjusting	1	4-40
-37	159-54168	. PLATE, Auxiliary alighting gear steering pot adjusting	1	4-40
-38	159-54169	. GEAR ASSY, Auxiliary alighting gear steering	1	4-40
-39	159-54171	. . GEAR, Auxiliary alighting gear pot drive steering	1	4-40
-40	159-54177	. . ARM, Auxiliary alighting gear taxi light steering	1	4-40
-41	159-54223	. BOX ASSY, Aux alighting gear steering pot gear cover	1	4-40
-42	2W1-28-44-32	. WASHER, Plain (North American)	1	4-40
	159-54322	MECHANISM ASSY, Auxiliary alighting gear steering electrical follow-up (see figure 213 for next assembly)	Ref	4-393
	159-54322-10	MECHANISM ASSY, Auxiliary alighting gear steering electrical follow-up (see figure 213 for next assembly)	Ref	394-
-43	AN365-440	. NUT	2	41-
-44	AN960D4	. WASHER	4	41-
-45	AN515-4-12	. SCREW	2	41-
-46	AN3234-1	. SWITCH	1	41-
-47	AN392-19	. PIN	1	41-
-48	AN960D4	. WASHER	4	41-
-49	159-54342	. FOLLOWER, Auxiliary alighting gear steering limit cam	1	41-
-50	AN365-1032	. NUT	1	41-
-51	2W1ALP14-20-64	. WASHER, Plain (North American)	2	41-
-52	AN3-5A	. BOLT	1	41-
-53	159-54343	. BRACKET ASSY, Aux alighting gear steering limit switch	1	41-
-54	4B18-6-40	. . BUSHING, Shoulder (North American)	1	41-
-55	AN385-30-6	. PIN	1	41-
-56	AN385-30-7	. PIN	1	41-
-57	159-54317	. SHAFT, Aux alighting gear steering potentiometer operating	1	41-
-58	159-54318	. ARM, Auxiliary alighting gear steering potentiometer oper	1	41-
-59	159-54319	. GEAR ASSY, Aux alighting gear steering potentiometer drive	1	41-
-60	2W1B26-20-32	. WASHER, Plain (North American)	2	41-
-61	AN365-1032	. NUT	1	41-
-62	AN960D10	. WASHER	3	41-
-63	AN3-7A	. BOLT	1	41-
-64	AN742D6C	. CLAMP	1	41-
-65	AN365-1032	. NUT	1	41-
-66	AN3-7A	. BOLT	1	41-
-67	AN960D10	. WASHER	3	41-
-68	SG15A	. POTENTIOMETER, Elec nose gear steering (Helipot)(North American No. 159-54054-3)	1	41-
-69	159-54315	. PLATE, Auxiliary alighting gear steering potentiometer adj	1	41-
-70	159-54316	. PLATE, Aux alighting gear steering potentiometer support	1	41-
-71	159-54320	. GEAR ASSY, Aux alighting gear steering potentiometer operating	1	41-
-72	159-54314	. SUPPORT ASSY, Auxiliary alighting gear taxi light	1	41-393
	174-34312	. SUPPORT ASSY, Aux alighting gear potentiometer & steering mech	1	394-
-73	4B19B6-010	. . BUSHING, Press fit plain (North American)	2	41-
-74	2W1AL27-22-40	. WASHER, Plain (North American)	1	41-
-75	152-54208	. SHIELD, Elec three unit limit switch	1	41-

ALIGHTING GEAR (Cont)

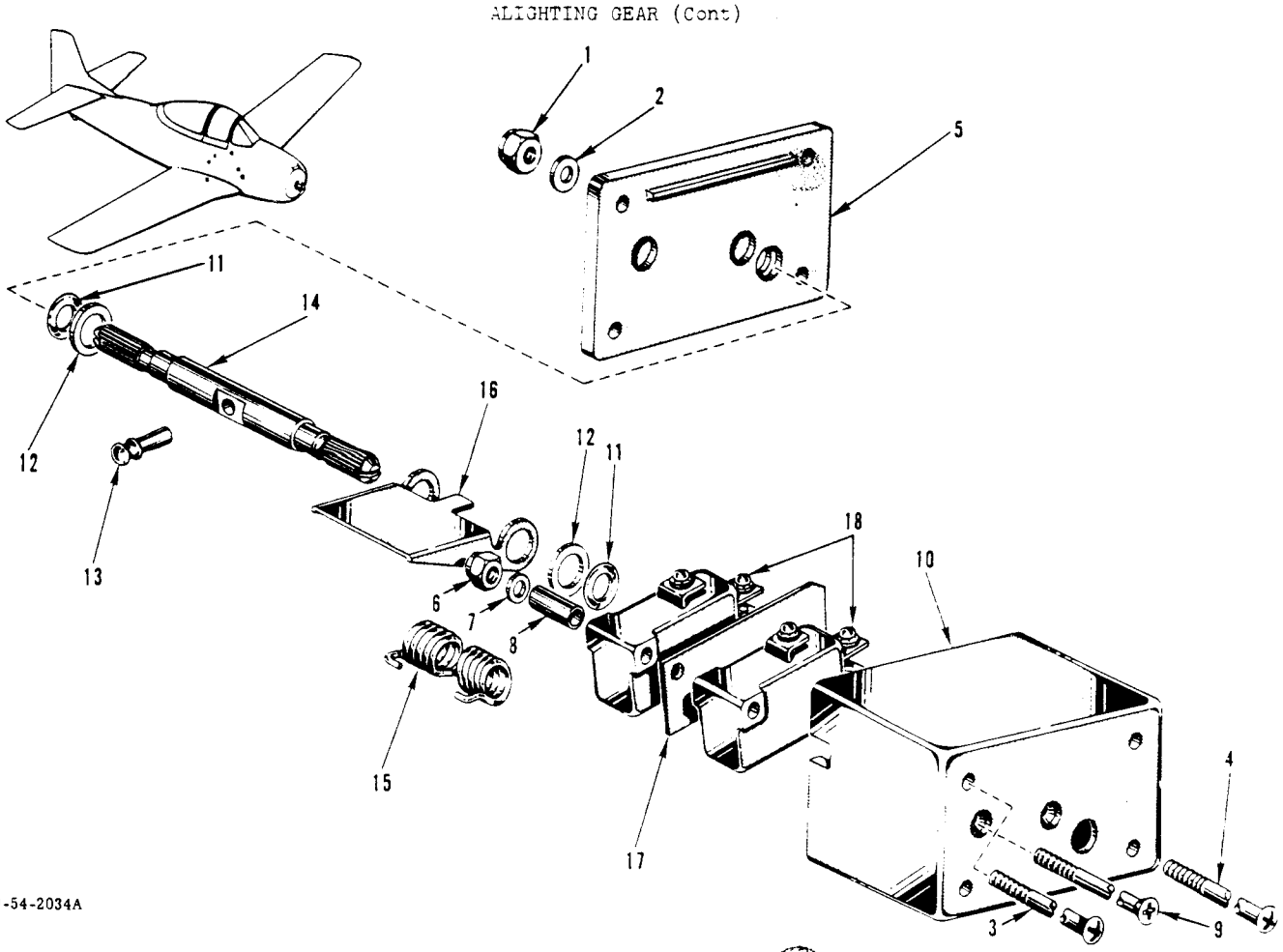


FIGURE 215 - ALIGHTING GEAR UPLOCK AND DOWNLOCK ELECTRICAL SWITCH ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
215		ALIGHTING GEAR UPLOCK AND DOWNLOCK ELECTRICAL SWITCH ASSEMBLIES		
	159-54301	. SWITCH ASSEMBLY, Electrical main gear uplock (main gear) . . (see fig. 205 for next assembly and attaching parts)	Ref	
	159-54301-10	. SWITCH ASSEMBLY, Electrical main gear uplock (aux gear) . . (see fig. 205 for next assembly and attaching parts)	Ref	4-328
	159-54302	. SWITCH ASSEMBLY, Alighting gear downlock (see fig. 201 . . . for next assembly and attaching parts)	Ref	4-270, 394-
	159-54302-10	. SWITCH ASSEMBLY, Alighting gear downlock (see fig. 201 . . . for next assembly and attaching parts)	Ref	271-393
-1	AN364-632	. . NUT	2	
-2	AN960-6	. . WASHER (used on 159-54301 & -10)	2	
	AN960-6	. . WASHER (used on 159-54302 & -10)	1	
-3	AN526-632R32	. . SCREW (used on 159-54301 and 159-54302 and -10)	1	
	AN526-632R32	. . SCREW (used on 159-54301-10)	2	4-328
-4	AN526-632R36	. . SCREW (used on 159-54301)	1	
	AN507-632R32	. . SCREW (used on 159-54302 and -10)	1	
-5	152-54204	. . COVER, Elec three unit limit switch	1	
-6	AN365-440	. . NUT	2	
-7	AN960-4L	. . WASHER	2	
-8	NAS43-4-28	. . SPACER, Screw (used on 159-54301 & -10)	2	
-9	AN507-440R24	. . SCREW	2	
-10	159-54304-5	. . BOX, Landing gear sequence sw (used on 159-54301 & -10)	1	
	159-54304-3	. . BOX, Landing gear sequence sw (used on 159-54302 & -10)	1	
-11	AN6227-5	. . PACKING	2	
-12	AN960A516L	. . WASHER	2	
-13	151-54326	. . PIN, Electrical three unit limit	1	
-14	159-54305	. . SHAFT, Electrical main gear uplock (on 159-54301 & -10)	1	
	159-54303	. . SHAFT, Elec alighting gear downlock (on 159-54302 & -10).	1	
-15	151-54323	. . SPRING, Electrical landing gear sequence switch (used . . on 159-54301-10, 159-54302 and -10)	1	
	159-54373	. . SPRING, Electrical three unit sequence switch . . . . . (supersedes 151-54323 on 159-54301)	1	
-16	151-54324	. . ACTUATOR, Electrical three unit limit switch	1	
-17	152-54208	. . SHIELD, Elec three unit limit sw (used on 159-54301 & -10)	1	
	152-54208	. . SHIELD, Elec three unit limit sw (used on 159-54302 & -10)	2	
-18	AN3234-1	. . SWITCH (used on 159-54301 & -10).	2	
	AN3234-1	. . SWITCH (used on 159-54302 & -10).	3	

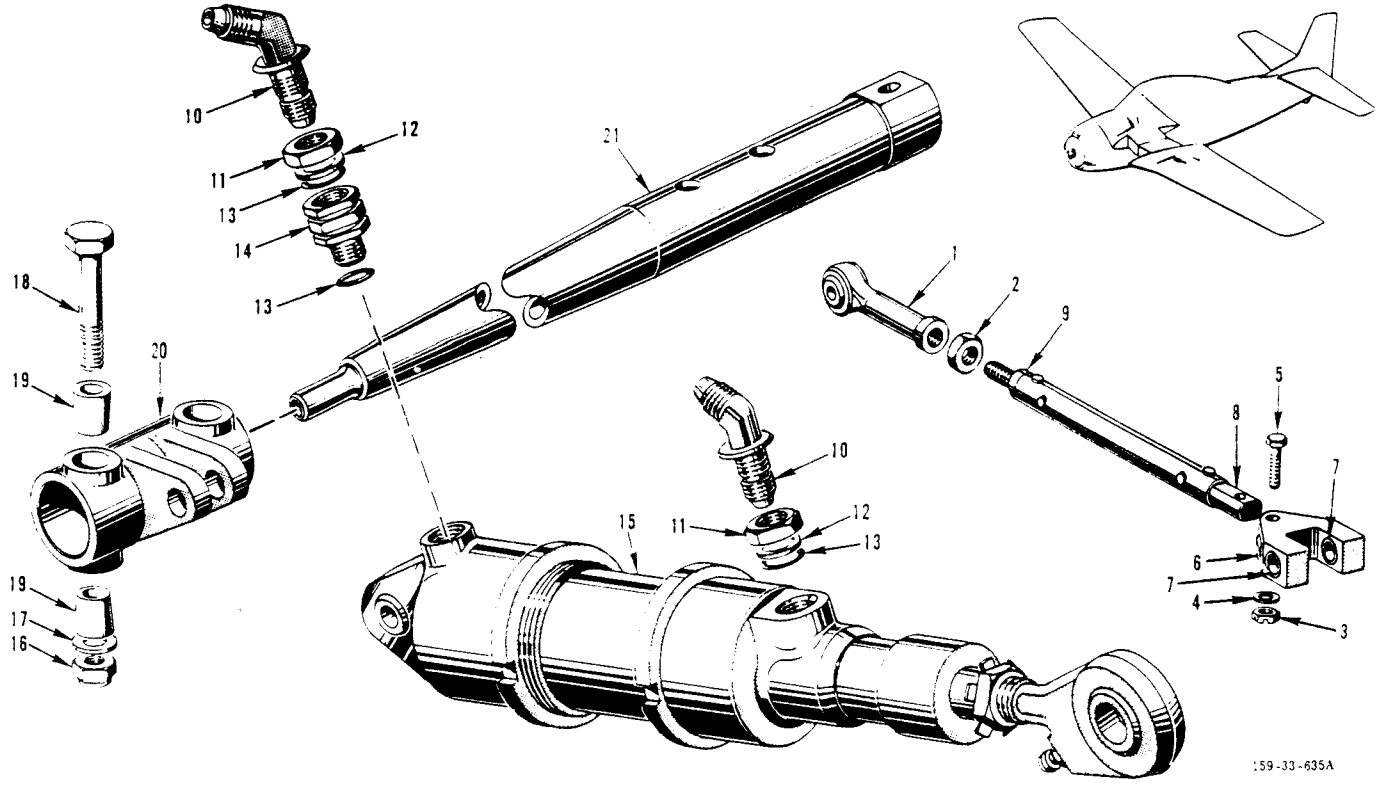
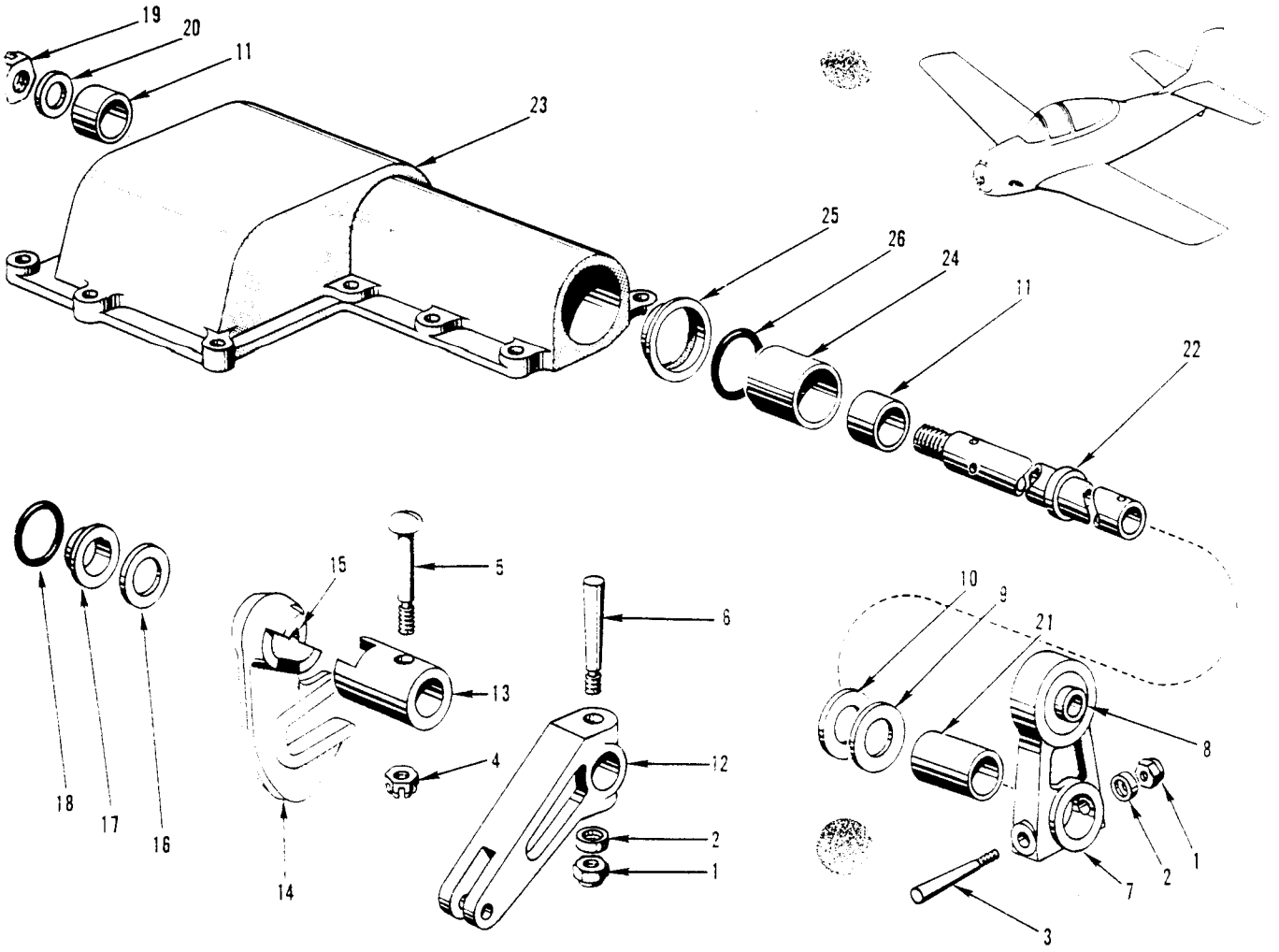


FIGURE 216 - ALIGHTING GEAR MISCELLANEOUS EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
216		ALIGHTING GEAR MISCELLANEOUS EQUIPMENT		
	159-34410-5	. ROD ASSEMBLY, Alighting gear downlock operating (see figure 198 for next assembly)	Ref	
	159-34410-3	. ROD ASSEMBLY, Alighting gear downlock operating (see figure 211 for next assembly)	Ref	
-1	RE3F4	. . ROD END (Fafnir Bearing)	1	
-2	AN316-4R	. . NUT	1	
-3	AN310-3	. . NUT	1	
-4	AN960D10	. . WASHER	1	
-5	AN173-11	. . BOLT (supersedes 83-10)	1	
-6	159-34412	. . CLEVIS ASSY, Alighting gear downlock operating rod	1	
-7	B66	. . . BEARING (Torrington)	2	
	159-34410-13	. . ROD ASSY, Alighting gear downlock operating (riveted) (used on 159-34410-5)	1	
	159-34410-11	. . ROD ASSY, Alighting gear downlock operating (riveted) (used on 159-34410-3)	1	
-8	159-34413	. . . ROD END, Alighting gear downlock operating	1	
-9	1R8P8-428	. . . ROD END, Threaded (North American)	1	
	159-58628	. CYLINDER ASSEMBLY, Hydraulic main alighting gear complete operating (see figure 198 for next assembly)	Ref	
-10	AN837-6D	. . ELBOW	2	
-11	AN6289D6	. . NUT	2	
-12	AN6291-6	. . RING	2	
-13	AN6290-6	. . GASKET	3	
-14	159-58400	. . VALVE, Hydraulic two-way restrictor	1	
-15	159-58028	. . CYLINDER ASSEMBLY, Hydraulic main LG operating (for a list of detail parts refer to AN 03-30CX2)	1	
	159-33124-1	. SHAFT AND ARM ASSY, Main alighting gear side brace LH (see figure 198 for next assy) (supersedes 159-33123-1 for future procurement)	Ref	
	159-33124-2	. SHAFT AND ARM ASSY, Main alighting gear side brace RH (see figure 198 for next assy) (supersedes 159-33123-2 for future procurement)	Ref	
-16	AN365-428	. . NUT	2	
-17	AN960C416	. . WASHER	2	
-18	AN4-25A	. . BOLT	2	
-19	4B12-6	. . BUSHING, Tapered (North American)	4	
-20	159-33120-3	. . ARM, Main alighting gear operating cylinder	1	
-21	159-33118	. . SHAFT ASSEMBLY, Main alighting gear side brace	1	

ALIGHTING GEAR (Cont)



159-34-159A

FIGURE 217 - AUXILIARY ALIGHTING GEAR UPLOCK ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
2-	159-34421	UPLOCK ASSY, Aux alighting gear (see fig. 211 for next assy)	Ref	
-1	AN364--28	. NUT	2	
-2	AN975--	. WASHER	2	
-3	AN386-3-3A	. PIN	1	
-4	AN320-5	. NUT	1	
-5	AN25-21	. BOLT	1	
-6	AN386-3-10A	. PIN	1	
-7	159-34408	. ARM ASSY, Aux alighting gear uplock hook shaft operating	1	
-8	AN206DS3	. . BEARING	1	
-9	2W1LB40--44-62	. WASHER, Plain (North American)	AR	
-10	2W1-40--44-63	. WASHER, Plain (North American)	1	
-11	IR1012-O.H.	. RACE, Inner (Torrington) (supersedes IR1012)	2	
-12	159-34411	. ARM, Auxiliary alighting gear downlock operating	1	
-13	159-34407	. CLUTCH, Auxiliary alighting gear uplock hook operating	1	
-14	159-34405-5	. HOOK ASSEMBLY, Auxiliary alighting gear uplock	1	
-15	159-34421	. . BUSHING, Auxiliary alighting gear uplock hook	1	
-16	2W1LB44--40-62	. WASHER, Plain (North American)	AR	
-17	159-34406	. SPACER, Auxiliary alighting gear uplock hook	1	
-18	934-15	. PACKING	1	
-19	AN320-5	. NUT	1	
-20	2W1-36--4-63	. WASHER, Plain (North American)	1	
-21	159-34423	. SPACER, Auxiliary alighting gear uplock hook shaft	1	
-22	159-34424	. SHAFT, Auxiliary alighting gear uplock hook operating rod	1	
-23	159-34409	. FITTING ASSY, Auxiliary alighting gear uplock hook support	1	
-24	B1412	. . BEARING (Torrington)	2	
-25	159-34416	. . RETAINER, Auxiliary alighting gear uplock hook support bearing seal	1	
-26	934-12	. PACKING	1	

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ALIGHTING GEAR (CONT)

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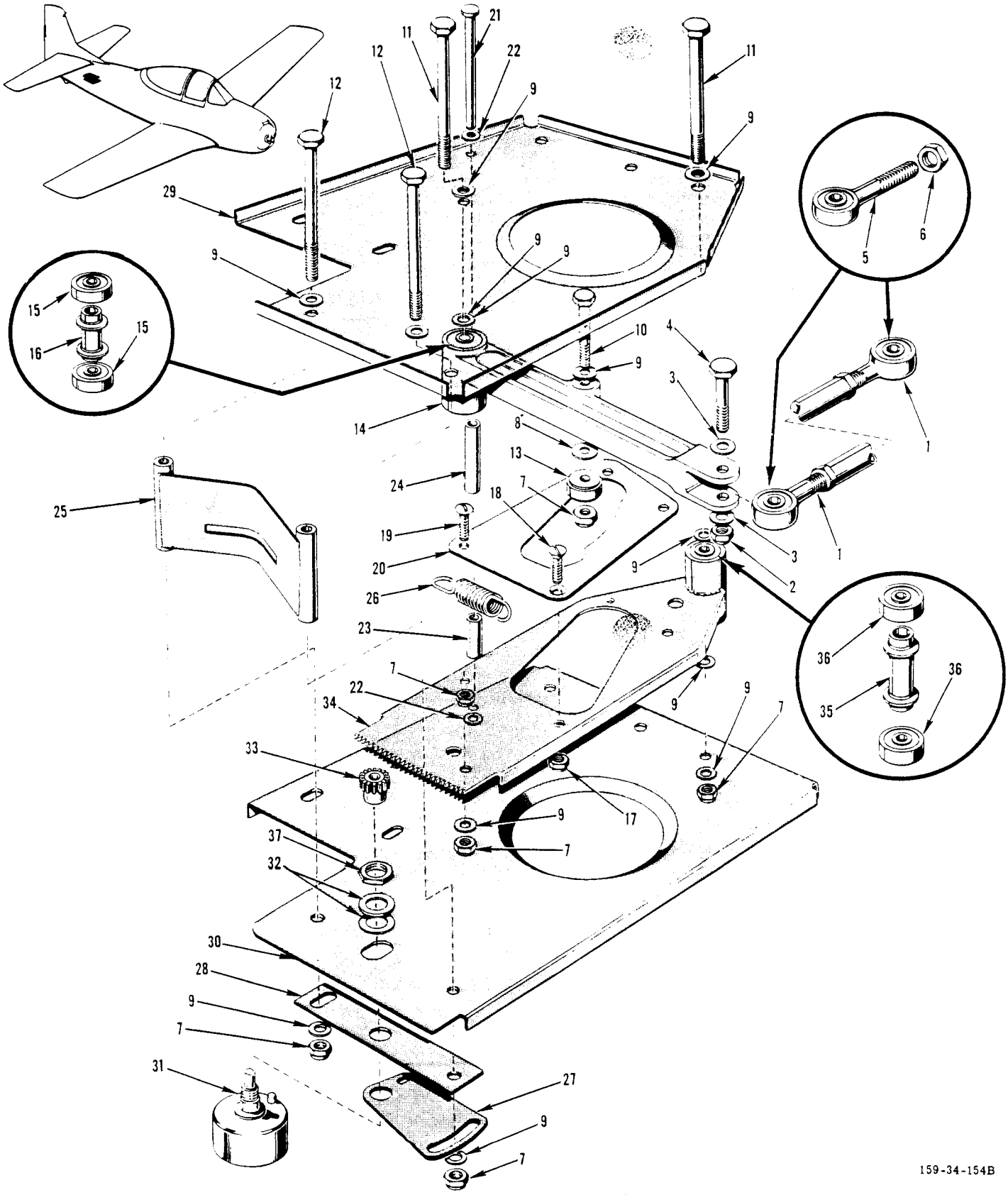


FIGURE 219 - AUXILIARY ALIGHTING GEAR STEERING CAM MECHANISM ASSEMBLY

ALIGHTING GEAR (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
219	159-34225-11 *		MECHANISM ASSEMBLY, auxiliary alighting gear steering cam . . . see Figure 11E for next assembly and attaching parts	Ref	
-1	159-34230	.	ROD ASSEMBLY, steering cam actuating	1	
	ATTACHING PARTS				
-2	AN365-1032	.	NUT	1	
-3	AN960-10	.	WASHER	2	
-4	AN3-11A	.	BOLT	1	
	---*---				
-5	RA3W4-2	. .	ROD END, Female	2	
-6	AN316-4	. .	NUT	2	
-7	AN365-1032	.	NUT	1	
-8	AN960-416L	.	WASHER	1	
-9	AN960-10	.	WASHER	12	
-10	AN3-13A	.	BOLT	1	
-11	AN3-22A	.	BOLT	2	
-12	AN3-23A	.	BOLT	2	
-13	530	.	ROLLER, cam (Hamilton)	1	
-14	159-34226	.	BELLCRANK ASSY, auxiliary alighting gear steering cam . . .	1	
-15	AN301KP3A	. .	BEARING	2	
-16	MS7-1-1.026	. .	SPACER, Flanged dual bearing (North American)	2	
-17	AN364-1032	.	NUT	2	
-18	AN515-10R6	.	SCREW	1	
-19	AN520-10R6	.	SCREW	2	
-20	159-34232	.	CAM, auxiliary alighting gear steering	1	
-21	AN392-D1	.	PIN	1	
-22	AN960-+	.	WASHER	2	
-23	+84D++22	.	SPACER, Flyer (North American	1	
-24	+84D++32	.	SPACER, Flyer (North American	1	
-25	159-34233	.	ROLLER ASSY, auxiliary alighting gear steering cam	1	
-26	121-655[illegible]	.	SPRING, Hartwell parking brake control cable	1	
-27	159-34276	.	PLATE, auxiliary alighting gear steering cam potentiometer adjusting	1	
-28	159-34275	.	PLATE, auxiliary alighting gear steering cam potentiometer support	1	
-29	159-34226-5	.	BRACKET, auxiliary alighting gear steering control RH	1	
-30	159-34226-2	.	BRACKET, auxiliary alighting gear steering control RH	1	
-31	SG15A	.	POTENTIOMETER, Electrosteer gear steering (Helipot)(North American No. 159-34-3+-3)	1	
-32	SW1AL27-22-20	.	WASHER, Plain (North American	1	
-33	159-34239	.	GEAR ASSY, Aux alighting gear steering potentiometer drive .	1	
-34	159-34229	.	CAM ASSEMBLY, auxiliary alighting gear steering	1	
-35	MS7-1-1.031	. .	SPACER, Flanged dual bearing (North American	1	
-36	AN301KP3A	. .	BEARING	2	
-37	Nut supplied with potentiometer			1	

NOTE: * 159-34225, when T.O. 01-60FGA-22 is incorporated, is equivalent to 159-34225-11. 159-34225-11 should be used for future procurement.

POWER PLANT AND ENGINE SECTION

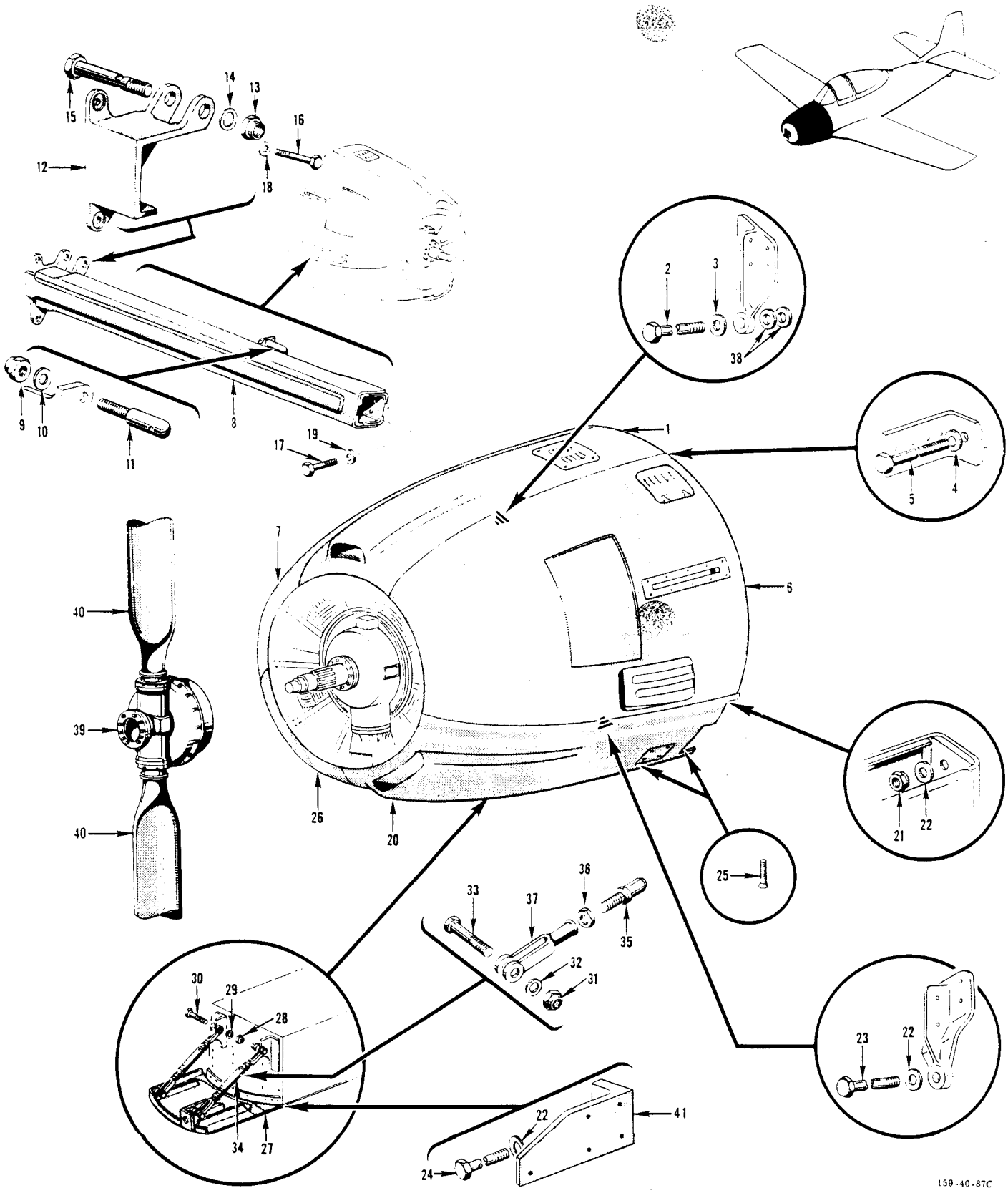
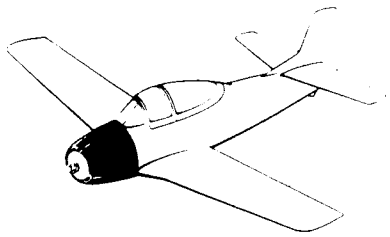


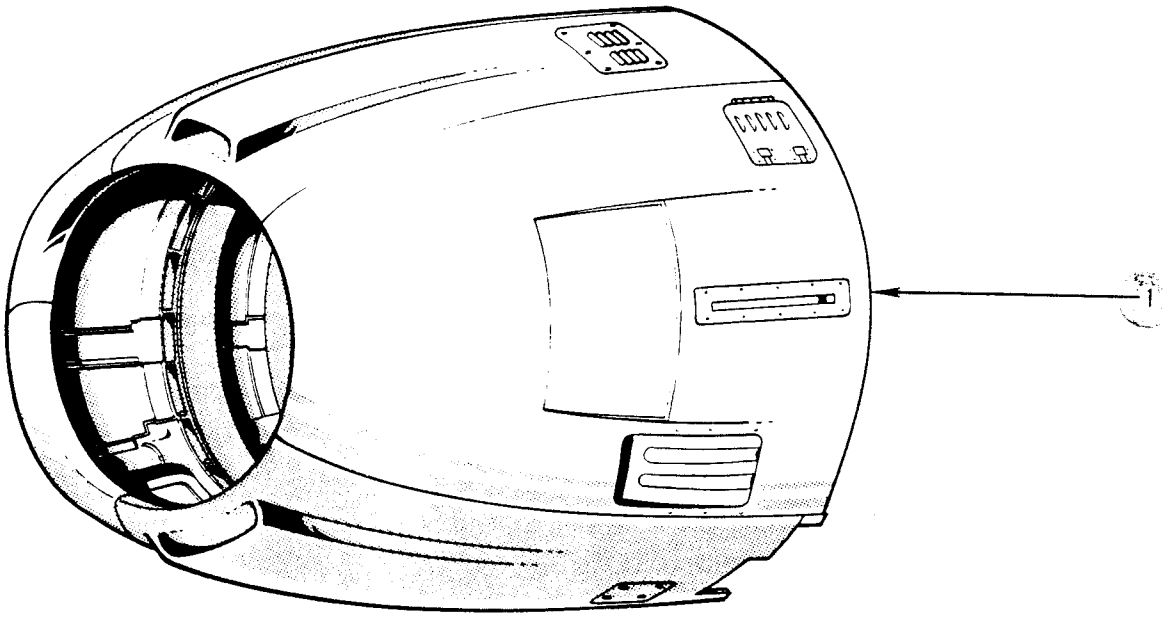
FIGURE 220 - COMPLETE POWER PLANT AND PROPELLER

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
220			COMPLETE POWER PLANT AND PROPELLER		
	159-40040	.	POWER PLANT INSTL, Complete (see fig. 50 for next assembly) .	NP	
	159-42040	. .	ENGINE ACCESSORY EQUIPMENT INSTL (see fig. 223 for . . . . detail breakdown)	NP	
	159-43040	. .	ENGINE CONTROL EQUIPMENT INSTL, Engine section . . . . . (see figure 229 for detail breakdown)	NP	
	159-47016	. .	ENGINE BREATHER EQUIPMENT INSTL, Inverted flight . . . . . (see figure 245 for detail breakdown)	NP	289-
	159-47040	. .	OIL SYSTEM EQUIPMENT INSTL, Complete (see figure 247 . . . for detail breakdown)	NP	
	159-48040	. .	FUEL SYSTEM EQUIPMENT INSTL, Engine section (see . . . . . figure 50 for detail breakdown)	NP	
	159-51040	. .	INSTRUMENT EQUIPMENT INSTL, Power plant (see figure 251 . for detail breakdown)	NP	
	159-54047	. .	ELECTRICAL EQUIPMENT INSTL, Engine section (see figure . . 252 for detail breakdown)	NP	
	159-58007	. .	HYDRAULIC EQUIP. INSTL, Engine section sta 29 1/2 to sta . 45 1/2 (see figure 249 for detail breakdown)	NP	4-268
	159-58007-3	. .	HYDRAULIC EQUIP. INSTL, Engine section sta 29 1/2 to sta . 45 1/2 (see figure 249 for detail breakdown)	NP	269-
	159-31530	. .	COWLING INSTL, Engine (superceded by 174-31540)	NP	4-308
	174-31540	. .	COWLING INSTL, Engine (supersedes 159-31530)	NP	
-1	159-31503 *	. . .	COWL ASSY, Eng upper (see fig. 240 for breakdown) . . .	1	4-308
	174-31503 *	. . .	COWL ASSY, Eng upper (see fig. 241 for breakdown) . . .	1	
	ATTACHING PARTS				
-2	AN5-10A	. . .	BOLT (magnetic inspected	2	
-3	AN960D516L	. . .	WASHER	2	
-4	AN960D416	. . .	WASHER	2	
-5	AN4-11A	. . .	BOLT (magnetic inspected	2	
	---*---				
-6	159-31504-1 *	. . .	COWL ASSY, Eng (upper side LH (see fig.237 for breakdown)	1	4-308
	174-31504-1 *	. . .	COWL ASSY, Eng (upper side LH (see fig.239 for breakdown)	1	
-7	159-31504-2 *	. . .	COWL ASSY, Eng upper side RH (see fig. 237 for breakdown)	1	4-308
	174-31504-2 *	. . .	COWL ASSY, Eng upper side RH (see fig. 239 for breakdown	1	
	ATTACHING PARTS				
-8	159-315033	. . .	BEAM ASSEMBLY, Engine cowl hinge complete	1	
-9	AN365-428	. . .	NUT	1	
-10	AN960-416	. . .	WASHER	1	
-11	159-31502-9	. . .	PIN, Engine cowl RH hinge beam	1	
-12	159-315251	. . .	FITTING, Engine lower RH cowl hinge beam aft hinge .	1	
-13	AN365-624	. . .	NUT	1	
-14	AN960-616L	. . .	WASHER	1	
-15	159-315253	. . .	BOLT, Engine (wl RH hinge beam	1	
-16	AN4-6A	. . .	BOLT	2	
-17	AN4-8A	. . .	BOLT (magnetic inspected)	2	
-18	AN960D416	. . .	WASHER	2	
-19	2W18--	. . .	WASHER, Serrated (North American)	2	
	---*---				
-20	159-31507 *	. . .	COWL ASSY, Eng lower LH (see fig. 236 for breakdown .	1	4-308
	174-31507 *	. . .	COWL ASSY, Eng lower LH (see fig. 246 for breakdown .	1	
	ATTACHING PARTS				
-21	AN365-428	. . .	NUT	1	
-22	AN960D416	. . .	WASHER	3	
-23	AN4-7A	. . .	BOLT (magnetic inspected)	1	
-24	AN4-10A	. . .	BOLT (magnetic inspected)	1	
-25	AN509-416R12	. . .	SCREW	1	
	---*---				
-26	159-31506 *	. . .	COWL ASSY, Eng lower RH (see fig. 242 for breakdown .	1	4-308
	174-31506 *	. . .	COWL ASSY, Eng lower RH (see fig. 243 for breakdown .	1	
-27	159-315682	. . .	PANEL ASSY, Lower fixed cowl torque box to cowl sta . . 15 3/8 (superseded by 159-315682-25)	1	4-308
	159-315682-25	. . .	PANEL ASSY, Lower fixed cowl torque box to cowl sta . . 15 3/8 (supersedes 159-315682)	1	
	ATTACHING PARTS				
-28	AN365-428	. . .	NUT	2	
-29	AN960D416	. . .	WASHER	2	
-30	AN4-6A	. . .	BOLT	2	
	---*---				
-31	AN365-428	. . . .	NUT	2	
-32	AN960-416	. . . .	WASHER	2	
-33	AN4-6A	. . . .	BOLT	2	
-34	159-315684	. . . .	BRACE ASSY, Lower fixed cowl torque box to cowl . . sta 15 3/8 support	2	
-35	159-86-428	. . . . .	BOLT END, Threaded (North American	2	
-36	AN316-4	. . . . .	NUT	2	
-37	AN4-36-2	. . . . .	SLEEVE	2	
-38	AN960D516L	. . .	WASHER	AR	
	159-44001	.	PROPELLER INSTALLATION (see figure 1 for next assembly) . . .	NP	
-39	A422E1	. .	HUB ASSY (Aeroproducts) (9FAE)	1	
-40	B20B162-40M5	. .	BLADE ASSEMBLY (Aeroproducts) (9FAE)	2	
-41	159-315257		FITTING, Engine lower LH cowl torque box attaching . . . . . (see figure 226 & 245	Ref	

NOTE: * 174-31503 together with 174-31504-1, 174-31504-2, 174-31507 and 174-31506 supersedes 159-31503 together with 159-31504-1, 159-31504-2, 159-31507 and 159-31506.

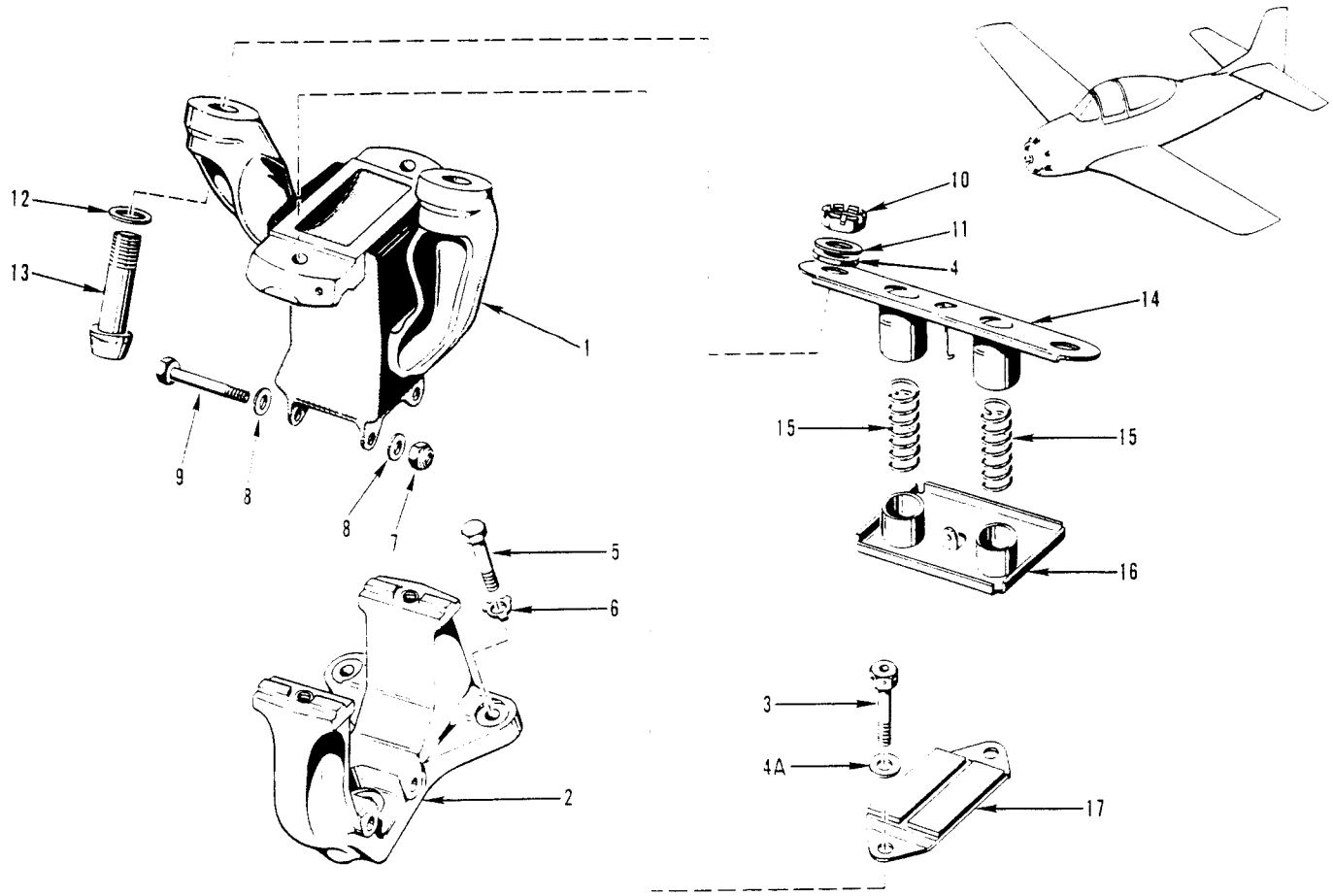




159-40-92A

FIGURE 221 - QUICK CHANGE SPARE ENGINE SECTION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
221	159-40901	ENGINE SECTION, QUICK CHANGE SPARE	1	4-268
	159-40901-10	ENGINE SECTION, QUICK CHANGE SPARE	1	269-
-1	159-40040	. POWER PLANT INSTALLATION, COMPLETE (SEE FIGURE 220)	1	
		COMPLETE: EXCEPT FOR THE FOLLOWING PARTS:		
		ALL GOVERNMENT FURNISHED EQUIPMENT		



159-42-275B

FIGURE 222 - FLEXIBLE PEDESTAL ENGINE MOUNT AND FRICTION DAMPER ASSEMBLIES

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
222	No Number		FLEXIBLE PEDESTAL ENGINE MOUNT AND FRICTION DAMPER ASSEMBLIES . . (see Figure 223 for next assembly)	NP	
	MR27B-3A		. *FLEXIBLE PEDESTAL ENGINE MOUNT COMPLETE (Lord)	1	**
	MR27B-3		. *FLEXIBLE PEDESTAL ENGINE MOUNT ASSEMBLY (Lord)	1	***
-1	MR27-1		. . CORE ASSEMBLY, (Lord) (supersedes MR27-1B and MR27-1BW) . .	1	**
	MR27-1		. . CORE ASSEMBLY, (Lord)	1	***
-2	MR27-2B		. . PEDESTAL BRACKET, (Lord).	1	**
	MR27-2		. . PEDESTAL BRACKET, (Lord).	1	***
-3	MR27-3B		. . BOLT, Mounting (Lord) (AN75-16 may be sub.	2	**
	MR27-3		. . BOLT, Mounting (Lord)	2	***
-4	MR27-4B		. . WASHER, Flat (Lord)	2	**
-4A	MR27-4C		. . WASHER, Flat (Lord)	2	***
	MR27-5		. . NUT, Self locking (Lord).	2	***
-6	MR27-6		. . BOLT, (Lord).	2	
-6	MR27-6A		. . WASHER, Star lock (Lord).	2	**
	MR27-6		. . WASHER, Star lock (Lord).	2	***
-7	MR27-6A		. . NUT, Self locking (Lord) (supersedes MR27-6).	2	
-8	MR27-7		. . WASHER, Flat (Lord)	2	
-9	MR27-8		. . BOLT, Mounting (Lord) (AN4-23A may be sub	2	
-10	MR27-9		. . NUT, (Lord) (AN355-7 may be sub)	2	
-11	MR27-10		. . WASHER, Flat (Lord)	2	**
	MR27-10		. . WASHER, Flat (Lord)	2	***
-12	MR27-12		. . WASHER, Countersunk (Lord).	2	
-13	MR27-13		. . BOLT, Mounting ring (Lord).	2	**
	MR27-11		. . BOLT, Mounting ring (Lord).	2	***
	MR27SA2		. FRICTION DAMPER ASSEMBLY, (Lord)	1	**
	MR27SA1		. FRICTION DAMPER ASSEMBLY, (Lord)	1	***
-14	MR27-14		. . BRACKET PLATE ASSEMBLY, (Lord).	1	
-15	MR27-15		. . COMPRESSION SPRING, (Lord).	2	
-16	MR27-27		. . FRICTION PLATE ASSEMBLY, (Lord)	1	
-17	MR27-34		. . DAMPER PLATE ASSEMBLY, (Lord)	1	

NOTE: * MR27B-3A supersedes MR27SA only as a complete set of six.
** Used on airplanes 1, 11-33 and 37-.
*** Used on airplanes 1, 6-10 and 34-36.

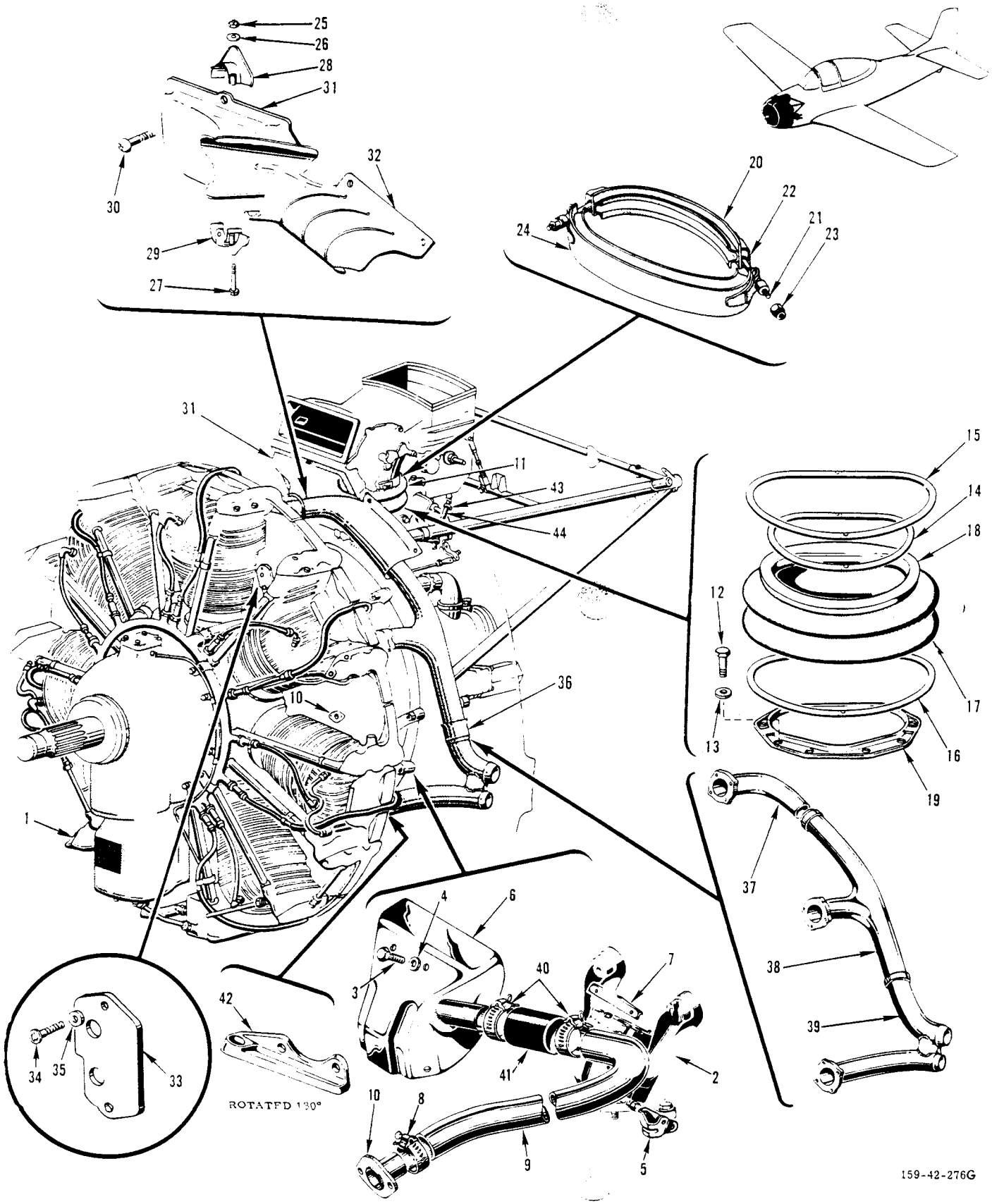


FIGURE 223 - ENGINE ACCESSORY EQUIPMENT (LH SIDE)

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
223	159-42040		ENGINE ACCESSORY EQUIPMENT INSTALLATION, (see figure 220 for next assembly)	NP	
	No Number		. ENGINE ACCESSORY EQUIPMENT, (RH side) (see figure 224 for detail breakdown)	NP	
-1	R1300-1A		. ENGINE ASSY, (Wright Aeronautical Corp) (model 853C7BA1) (GFAE) (for a list of detail parts refer to T.O. 02A-35KA4)	1	
-2	No Number		. FLEXIBLE PEDESTAL ENGINE MOUNT AND FRICTION DAMPER ASSEMBLIES. see figure 222 for detail breakdown)	NP	
-3	AN3-5A		. BOLT	24	
-4	AN960-10		. WASHER	24	
-5	159-42063-11	*1	. CLIP ASSY, Engine vibration dampener radiation shield front LH (supersedes 159-42063-1)	6	
	159-42063-12	*1	. CLIP ASSY, Engine vibration dampener radiation shield front RH (supersedes 159-42063-2)	6	
-6	159-42061	*1	. SHIELD ASSY, Engine vibration dampener complete radiation	6	
-7	159-42062	*1	. CLIP ASSY, Engine vibration dampener radiation shield rear	6	
-8	AN737-34		. CLAMP	6	
-9	159-42064	*1	. TUBE, Engine vibration dampener cooling air	6	
-10	171-42052		. ADAPTER, Engine vibration isolator air cooling tube (supersedes 159-42051 and 159-42066)	6	
-11	159-42166		. DUCT ASSY, Carburetor air flexible joint complete (supersedes 159-42141)	1	
	ATTACHING PARTS				
-12	AN75A6		. BOLT	9	
-13	AN960-516		. WASHER	9	
	---*---				
-14	159-42144		. . RING, Carburetor air flexible joint	1	
-15	159-42088		. . RING ASSY, Carburetor air flexible joint upper	1	
-16	159-42089		. . RING ASSY, Carburetor air flexible joint lower	1	
-17	159-42184		. . DUCT ASSY, Carburetor air flexible joint (supersedes 159-42179)	1	
-18	159-42142		. . . FLANGE, Carburetor air flexible joint top	1	
-19	159-42218		. . . FLANGE, Carburetor air flexible joint bottom	1	
-20	159-42180-15		. HALF CLAMP ASSY, Carburetor air flexible joint	1	
-21	BA4528-8		. . BOLT, (Marman)	2	
-22	BA4506-10		. . TOGGLE, (Marman)	2	
-23	AN365-1032		. . NUT	2	
-24	159-42180-17		. HALF CLAMP ASSY, Carburetor air flexible joint	1	
-25	1N104		. NUT, Aircraft castle (North American)	2	
-26	AN960C416		. WASHER	2	
-27	5B18C15		. BOLT, Corrosion resistant (North American)	1	
	5B18C16		. BOLT, Corrosion resistant (North American)	1	
-28	159-42138-25		. BAFFLE ASSY, Carburetor hot air muff (supersedes 159-42138-5)	1	
-29	159-42138-33		. BAFFLE ASSY, Carburetor hot air muff (supersedes 159-42138-3 and -23)	1	
-30	NAS222-8		. SCREW, Brazier head Phillips recess alloy steel 1/4-28	1	
-31	159-42155		. MUFF ASSY, Carburetor mixing valve hot air upper section	1	
-32	159-42154		. MUFF ASSY, Carburetor mixing valve hot air lower section	1	
-33	159-43082		. FAIRLEAD, Engine control propeller government cable inter-cylinder baffle	1	
	ATTACHING PARTS				
-34	NAS221-10		. SCREW, Brazier head Phillips recess alloy steel 10-32	2	
-35	AN960D10L		. WASHER	2	
	---*---				
-36	4664-1	*2	. STACK ASSY, Exhaust ports 1, 6 and 7 (LH side only) (Solar Aircraft)	1	
-37	4664-3		. . SECTION ASSY, Port 1 (Solar Aircraft)	1	
-38	4664-80		. . SECTION ASSY, LH center port 7 (Solar Aircraft)	1	
-39	4664-70		. . SECTION ASSY, Port 6 (Solar Aircraft)	1	
-40	AN737TW44		. CLAMP	12	
-41	3H2-16-9		. HOSE, (North American)	6	
-42	174-31579	*3	. RECEPTACLE, Engine LH side cowl stay-rod	1	369-431,
-43	AN737TW22		. CLAMP	1	596-
-44	3H2L4-44		. HOSE, (engine air filter duct assy drain) (North American)	1	

*1 159-42061, 159-42062, 159-42063 and 159-42064 supersede 159-42041, 159-42043 and 159-42059.
*2 Refer to T. O. 1T-28A-211.
*3 Refer to T. O. 01-60FG-42.

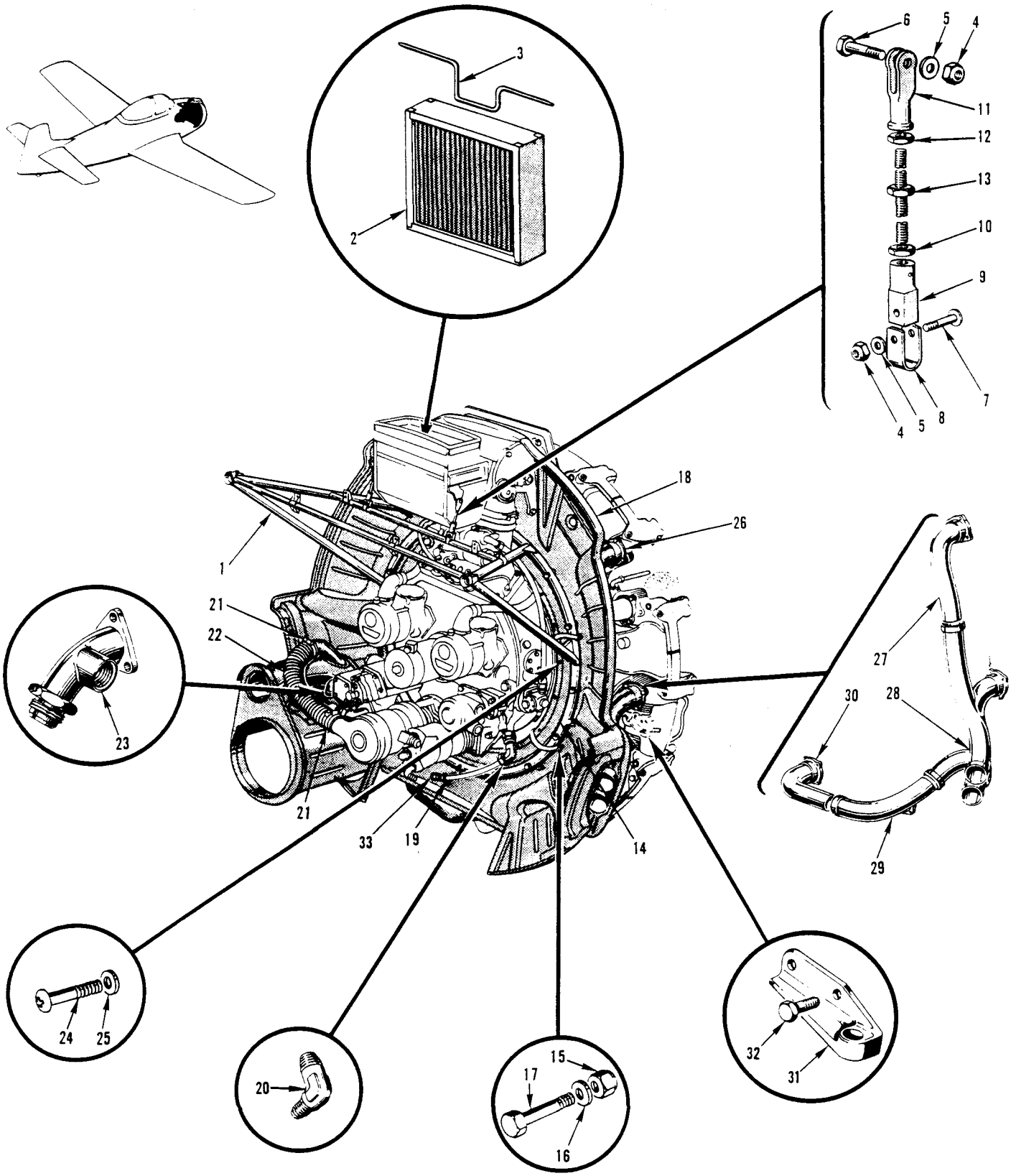


FIGURE 224 - ENGINE ACCESSORY EQUIPMENT (RH SIDE)

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
224	No Number	ENGINE ACCESSORY EQUIPMENT, (RH side) (see figure 223 for next assembly)	NP	
-1	159-31901	. MOUNT ASSEMBLY, Engine	1	
	159-31902-3	. . FITTING, Engine mount to firewall	2	
-2	96-12787	. FILTER ASSEMBLY, Carburetor air (type UM2028) (American Air Filter Co North American No. 159-42165) (supersedes Air-Maze No. 13403 which may be used interchangeably until stock is exhausted)	1	
-3	159-42157	. RETAINER, Engine air filter	1	
-4	AN365-428	. NUT	4	
-5	AN960-416	. WASHER	4	
-6	AN--6A	. BOLT	2	
-7	NAS222-22	. SCREW, Brazier head Phillips recess alloy steel 1/4-28	2	
-8	159-42153	. STRAP, Engine filter air duct brake fitting	2	
-9	159-42152	. FITTING, Engine filter air duct brace	2	
-10	AN316-8L	. NUT	2	
-11	NAS170-2	. CLEVIS, Engine control rod adjustable	2	
-12	AN316-8R	. NUT	2	
-13	NAS27-8-30	. TURNBUCKLE, Tank strap	2	
-14	159-42055	. SEAL ASSEMBLY, Engine accessory compartment air	1	
-15	AN365-428	. NUT	10	
-16	AN960-416	. WASHER	10	
-17	AN--5A	. BOLT	6	
	AN--6A	. BOLT	4	
-18	159-31565	. COWLING ASSEMBLY, Engine accessory fixed (see figure 225 for detail breakdown)	1	
-19	AN6264-6-12	. HOSE ASSEMBLY	1	
-20	AN822-6	. ELBOW	1	
-21	AN737-74	. CLAMP	2	
-22	159-42056	. TUBE, Generator blast	1	
-23	500003-24-20	. INLET FITTING, Oil (Aeroquip)	1	
-24	NAS221-3	. SCREW, Brazier head Phillips recess alloy steel 10-32	21	
-25	AN960C10L	. WASHER	21	
-26	466--2	. STACK ASSEMBLY, Exhaust ports 2, 3, 4 and 5 (RH side only (Solar Aircraft	1	
-27	466--4	. . SECTION ASSEMBLY, Port 2 (Solar Aircraft)	1	
-28	466--60	. . SECTION ASSEMBLY, Port 3 (Solar Aircraft)	1	
-29	466--8	. . SECTION ASSEMBLY, Port 4 (Solar Aircraft)	1	
-30	466--10	. . SECTION ASSEMBLY, Port 5 (Solar Aircraft)	1	
-31	159-31580	. RECEPTACLE, Engine RH side cowl stay-rod	2	
-32	AN5H4A	. BOLT	2	369-431, 596-
-33	For continuation of this line see figure 31		Ref	

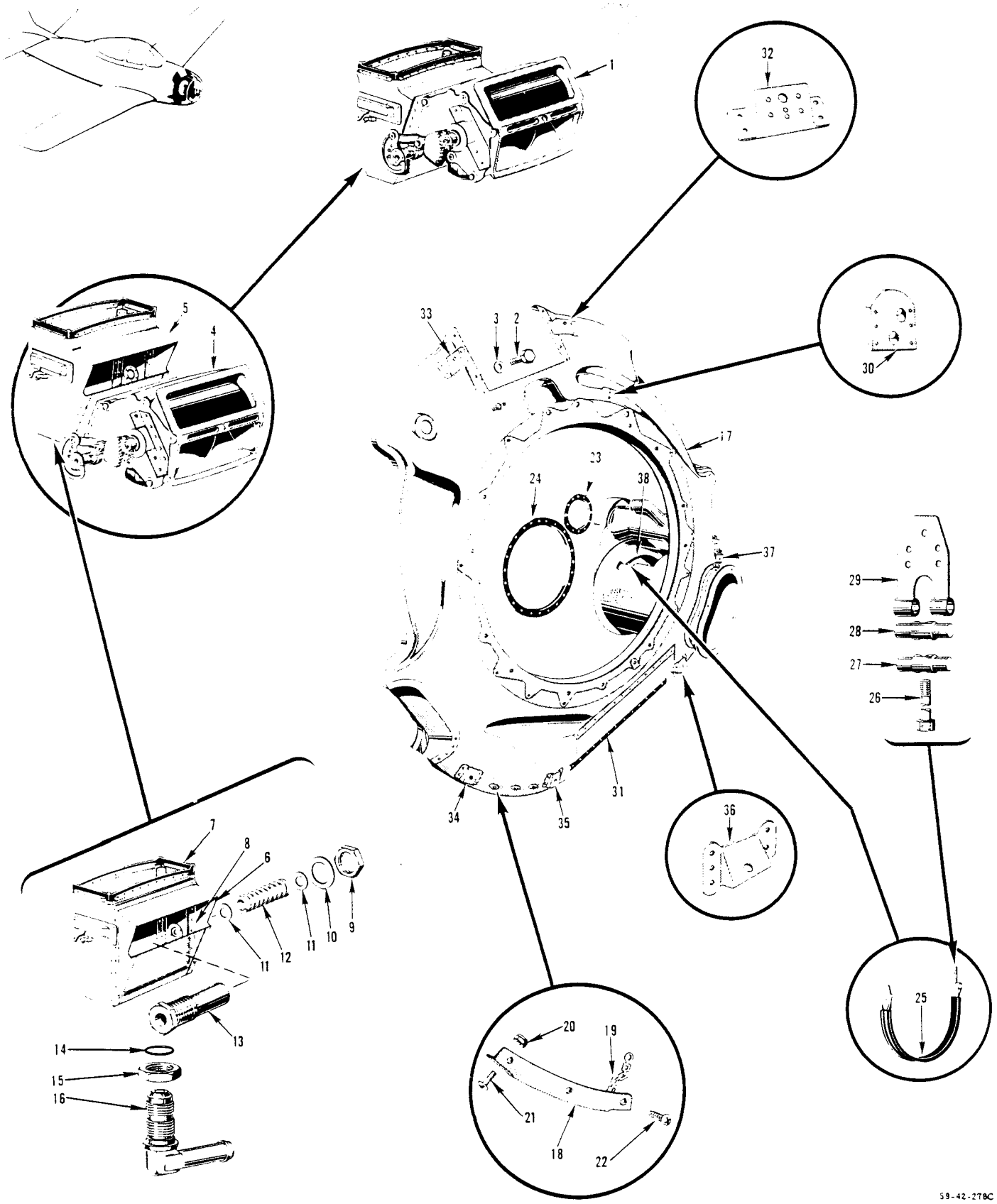


FIGURE 225 - FIXED ENGINE ACCESSORY COWLING ASSEMBLY

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
225	159-31565		COWLING ASSEMBLY, Engine accessory fixed (see figure 224 for next assembly)	Ref	
-1	159--2191	.	DUCT ASSEMBLY, Carburetor air valve and filter	1	
	ATTACHING PARTS				
-2	AN--3A	.	BOLT	2	
-3	AN960--16L	.	WASHER	2	
	---*---				
-4	159--21-5-13	. .	VALVE ASSY, Carburetor air mixing (supersedes 159--2145 and 159--21-5-11) (see figure 228 for detail breakdown)	1	
-5	159--2169	. .	DUCT ASSEMBLY, Engine filter air	1	
-6	159--2169-25	. . .	DUCT ASSEMBLY, Engine filter air	1	
-7	159--2169-19	. . .	SEAL, Duct engine filter air	1	
-8	159--2169-17	. . .	SEAL, Duct engine filter air	1	
-9	AN316-8R	. . .	NUT	1	
-10	AN935-916L	. . .	WASHER	1	
-11	AW1-1-8-63	. . .	WASHER, Plain (North American)	1	
-12	1----2013	. . .	SPRING, Engine air filter retainer	1	
-13	1----2010	. . .	HOUSING, Engine filter retainer spring	1	
-14	03--7	. .	PACKING	1	
-15	AN924--D	. .	NUT	1	
-16	AN538--D	. .	ELBOW	1	
-17	159-315-7-300	.	COWLING ASSEMBLY, Engine fixed (supersedes 159-315-7)	1	
-18	159-315-7-99	. .	DOOR, Engine fixed cowling	1	
	ATTACHING PARTS				
-19	301-2-5	. .	CHAIN, No. 1 safety (North American)	1	
-20	AN365-1032	. .	NUT	2	
-21	AN509-10-8	. .	SCREW	2	
-22	MAS221-8	. .	SCREW, Brazier head Phillips recess alloy steel 10-32	3	
	---*---				
-23	159-33-03	. .	SEAL ASSEMBLY, Heat and vent system ventilating air duct compression joint	1	
-24	159--7094	. .	SEAL ASSEMBLY, Oil cooler air duct compression joint	1	
-25	159--7130	. .	STRAP ASSEMBLY, Oil cooler retaining	2	
-26	AN502--10-28	. . .	SCREW	4	
-27	MAS26--	. . .	TRUNNION, Tank strap unthreaded	2	
-28	MAS25--R	. .	TRUNNION, Tank strap threaded	2	
-29	159-31547-1-5	. .	TERMINAL, Engine fixed cowling (altered from MAS2---)	2	
-30	159--3102	. .	FAIRLEAD, Engine controls prop cables diagram	1	
-31	159-31559	. .	STRIP, Engine fixed cowl cubbing	1	
-32	159-31550-1	. .	CLIP ASSEMBLY, Engine cowl top center cowl attaching LH	1	
-33	159-31556-2	. .	CLIP ASSEMBLY, Engine cowl top center cowl attaching RH	1	
-34	159-31548	. .	CLIP ASSEMBLY, Engine fixed cowl lower RH cowl upper shear pin attaching sta 27 1/8	1	
-35	159-31557	. .	CLIP ASSEMBLY, Engine fixed cowl RH cowl inboard shear pin attachment	1	
-36	159-31555	. .	CLIP ASSEMBLY, Engine fixed cowl lower LH cowl inboard shear pin attachment	1	
-37	159-31558	. .	CLIP ASSEMBLY, Engine fixed cowl upper side cowl outboard attachment	1	
-38	159-31547-83	. .	SEAL, Engine fixed cowling	2	

POWER PLANT AND ENGINE SECTION (Cont)

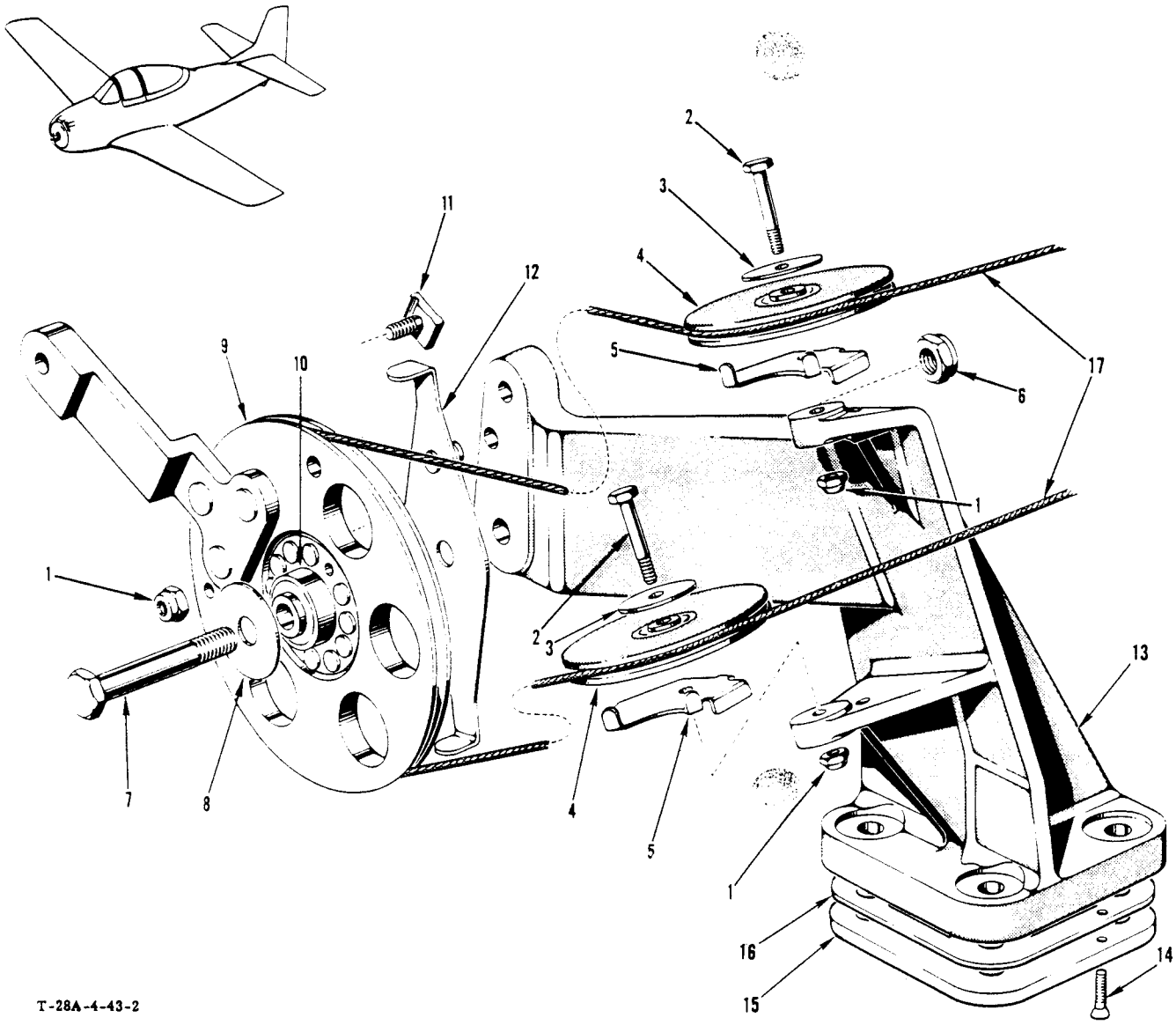
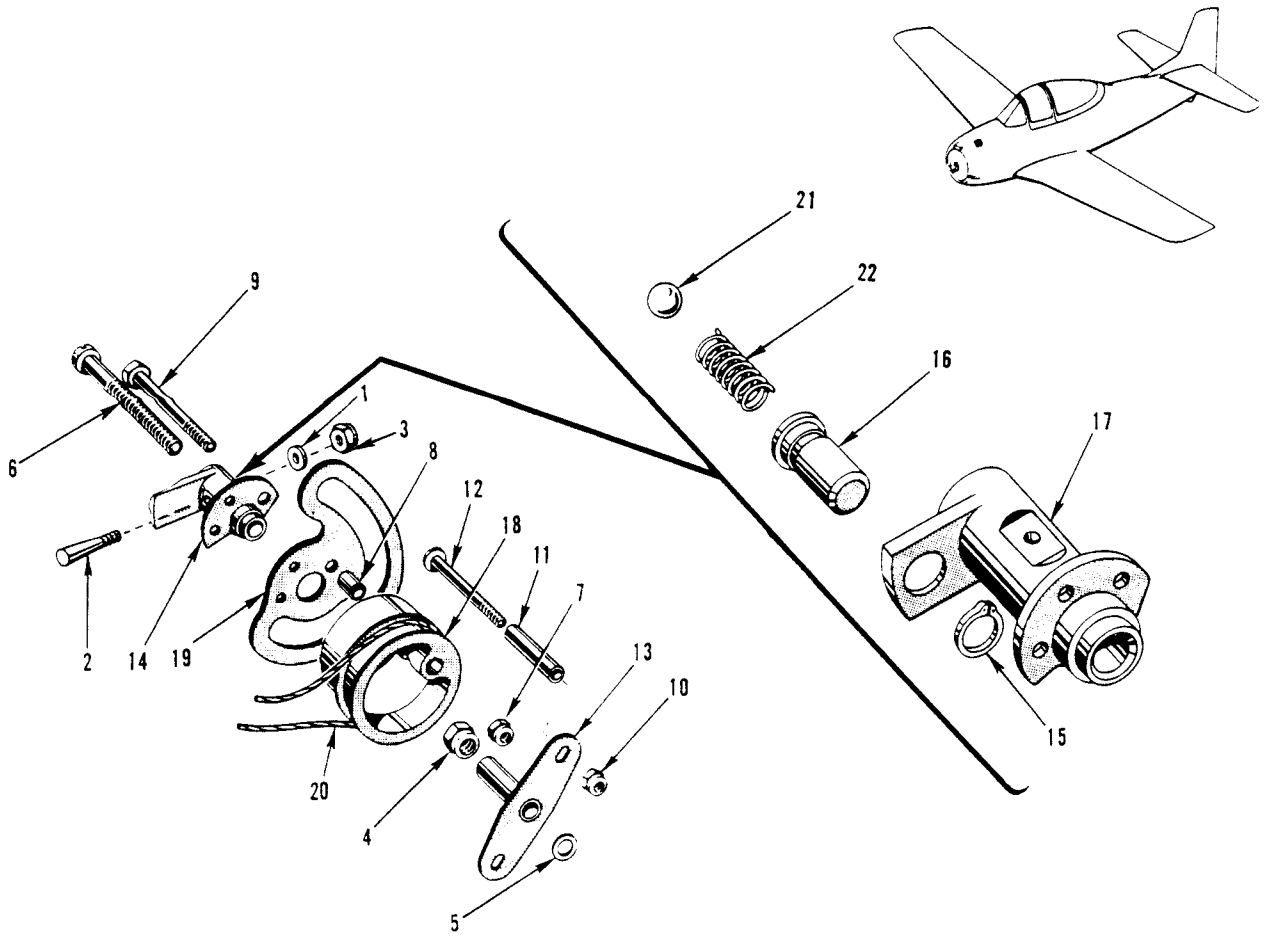


FIGURE 226 - ENGINE CONTROL PROPELLER GOVERNOR FORWARD BRACKET ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
226	159-43076		BRACKET ASSEMBLY, Engine control propeller governor forward (see figure 229 for next assembly)	Ref	
-1	AN365-1032		. NUT	3	
-2	AN3-10A		. BOLT	2	
-3	2W1C13-32-32		. WASHER, Plain (North American)	2	
-4	AN210-2A		. PULLEY	2	
-5	159-43128		. GUARD, Engine control propeller governor control forward idler pulley	2	
-6	AN365-524		. NUT	1	
-7	AN5-15A		. BOLT	1	
-8	2W1C22-36-32		. WASHER, Plain (North American)	1	
-9	159-43096		. PULLEY ASSEMBLY, Engine control propeller governor forward	1	
-10	AN218-5		. BEARING	1	
-11	159-43071		. STUD, Engine control cable locking	1	
-12	159-43099		. GUARD ASSY, Engine control front propeller pulley cable	1	
-13	159-43075		. BRACKET, Engine control propeller governor fwd pulley support	1	
-14	AN507-440R4	*1	. SCREW	2	
-15	159-943030-3	*1	. PLATE, Eng control propeller governor forward pulley support bracket	1	
-16	159-943030-5	*1	. GASKET, Eng control propeller governor forward pulley support bracket	1	
-17	174-43047		. CABLE ASSY, Engine control propeller governor forward	1	

*1 Parts marked thus used on 159-43075 (change leter A or B) only.



159-42-312

FIGURE 227 - CARBURETOR AIR MIXING VALVE CAM ASSEMBLY AND RELATED PARTS

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
227	No Number	CARBURETOR AIR MIXING VALVE CAM ASSEMBLY AND RELATED PARTS . . . (see figure 228 for next assembly)	NP	
	159-42209	. CAM ASSEMBLY, Carburetor air valve hot air door	1	4-40
	159-42209-3	. CAM ASSEMBLY, Carburetor air valve hot air door	1	41-
		ATTACHING PARTS		
-1	AN975-3	. WASHER	1	
-2	AN386-1-6A	. PIN	1	
-3	AN364-1032	. NUT	1	
		---*---		
-4	AN365-428	. . NUT	1	
-5	AN960-416	. . WASHER	1	
-6	159-42217	. . BOLT, Carburetor air cable guard attaching	1	
-7	AN364-1032	. . NUT	1	
-8	4S4D6-12	. . SPACER, Bolt (North American)	1	
-9	AN3-15A	. . BOLT	1	
-10	AN364-832	. . NUT	2	
-11	NAS43C3-62	. . SPACER, Screw and bolt	2	
-12	159-43125	. . SCREW, Engine control carburetor air valve hot air door cam pulley guard	2	
-13	159-43124	. . GUARD, Engine control carburetor air valve hot air cam pulley guard	1	
-14	159-42212	. . FLANGE, Carburetor air valve hot air door cam	1	4-40
-15	NAS51-37	. . RING, External retainer	1	41-
-16	159-42224	. . BOSS, Carburetor air valve detent	1	41-
-17	159-42223	. . FLANGE, Carburetor air valve detent	1	41-
-18	159-42213	. . PULLEY, Carburetor air valve cable	1	41-
-19	159-42210	. . CAM, Carburetor air valve hot air door	1	
-20	159-43077	. . CABLE ASSY, Engine control carburetor air control fwd . .	1	
-21	Comm	. BALL, Corrosive resistant steel ball 1/4 diameter . . . . . (Strom Steel Ball Company)	1	
-22	159-42074	. SPRING, Compression	1	

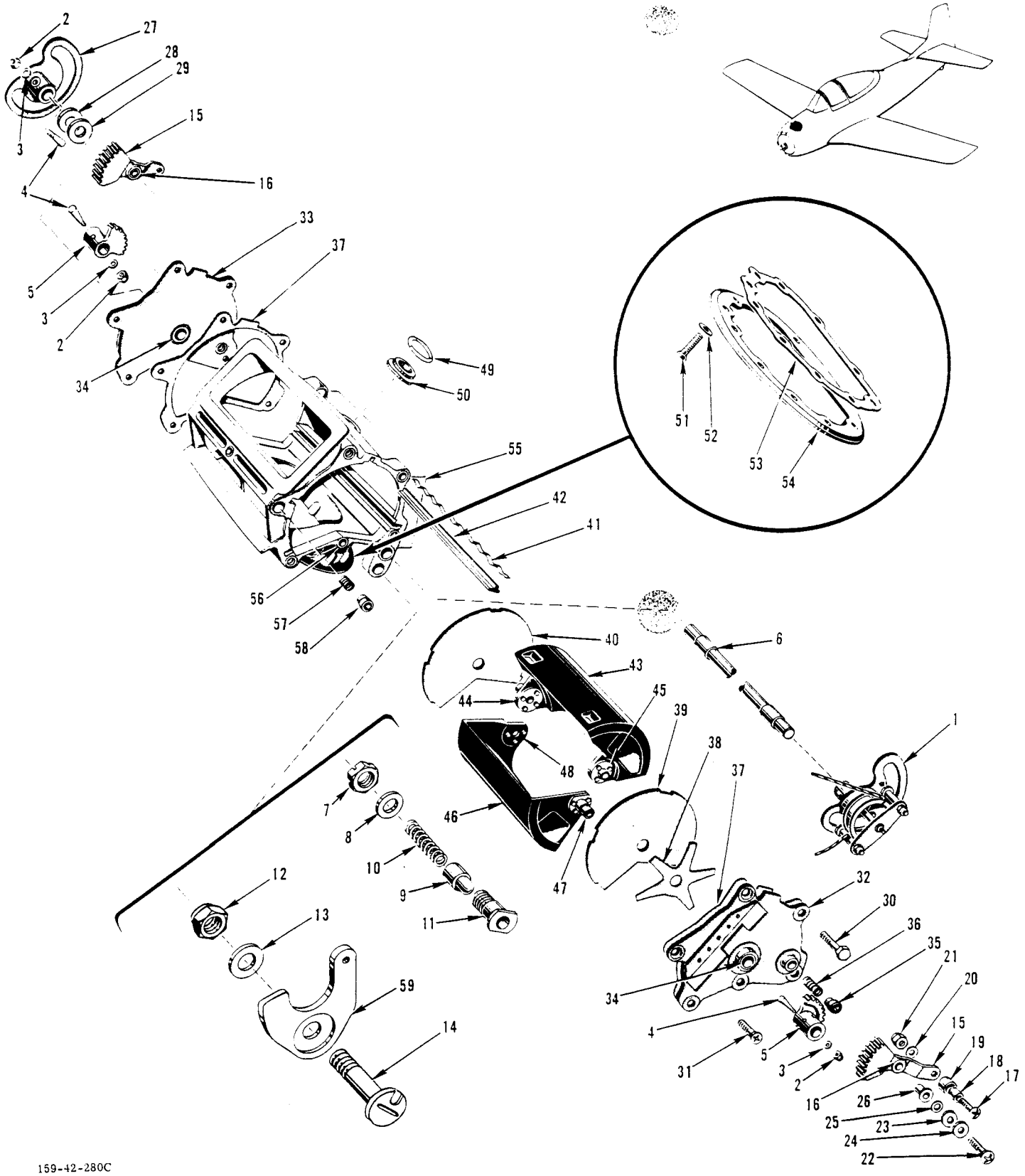


FIGURE 228 - CARBURETOR AIR MIXING VALVE ASSEMBLY

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
228	159--2145-13	VALVE ASSY, Carburetor air mixing (supersedes 159-42145-11 (see figure 225 for next assembly)	Ref	41-
	159--2145-11	VALVE ASSY, Carburetor air mixing (supersedes 159-42145) (see figure 225 for next assembly)	Ref	26-40
	159--2145	VALVE ASSY, Carburetor air mixing (superseded by 159--2145-11 and 159--2145-13) (see figure 225 for next assembly)	Ref	4-25
-1	No Number	. CARBURETOR AIR MIXING VALVE CAM ASSEMBLY AND RELATED PARTS (see figure 227 for detail breakdown)	NP	
-2	AN936--1032	. NUT	3	
-3	AN960-[illegible]	. WASHER	3	
-4	AN936-1-7A	. NUT	2	
-5	159--2143-3	. GEAR, Carburetor air valve door actuating gear (supersedes 159--2143)	2	
-6	159--2130	. SHAFT, Carburetor air valve cam	1	
-7	AN960-[illegible]	. NUT	1	
-8	AN960-[illegible]	. NUT	1	
-9	AN960-10-62	. WASHER, Plain (North American)	1	
-10	159--2136	. DETENT, Carburetor air valve	1	4-40
-11	159--2139	. SPRING, Carburetor air valve detent	1	4-40
-12	159--2137	. PLUG, Carburetor air valve detent	1	4-40
-13	AN936-[illegible]	. NUT	1	41-
-14	AN960-[illegible]	. WASHER	1	41-
-15	159--2219	. PLUG, Carburetor air valve detent adjusting	1	41-
-16	159--2140-6	. GEAR ASSY, Carburetor air valve door actuating idler gear	2	
-17	4B2136-014	. . BUSHING, Press fit flanged (North American)	2	
-18	MAC112-10	. SCREW, Bracier head Phillips recess alloy steel 1/4-28	2	
-19	4B2136-010	. BUSHING, Spacer (North American)	2	
-20	159--2142	. ROLLER, Carburetor air valve cam follower	2	
-21	AN960D4-16	. WASHER	2	
-22	AN936-4-16	. NUT	2	
-23	MAC112-16	. SCREW, Bracier head Phillips recess alloy steel 1/4-28	2	
-24	AN960-10-10	. WASHER, Plain (North American)	AR	
-25	AN960-10-8	. WASHER, Plain (North American)	AR	
-26	AN960-10L	. WASHER	2	
-27	4B2136-017	. BUSHING, Spacer (North American)	2	
-28	159--2214	. CAM ASSY, Carburetor air valve filter air door	1	
-29	AN960-416-16	. WASHER, Plain (North American)	1	
-30	AN960-416-31	. WASHER, Plain (North American)	1	
-31	AN4-8A	. BOLT	4	
-32	AN507--8R10	. SCREW	4	
-33	159--2177-1	. PLATE ASSEMBLY, Carburetor air valve end LH	1	
-34	159--2177-2	. PLATE ASSEMBLY, Carburetor air valve end RH	1	
-35	4B2136-013	. . BUSHING, Press fit flanged (North American)	1	
-36	RL25EB	. . LOCK RING (Rosan)	1	
-37	RD216SH6.5L	. . INSERT (Rosan)	1	
-38	159--2178	. JACKET, Carburetor air valve end plate	1	
-39	159--2161	. SPRING, Carburetor air mixing valve	1	
-40	159--2160-6	. SEAL, Carburetor air mixing valve end	1	
-41	159--2160-3	. SEAL, Carburetor air mixing valve end	1	
-42	159--2159	. SPRING, Carburetor air mixing valve side seal	4	
-43	159--2158	. SEAL, Carburetor air mixing valve side	4	
-44	159--2147	. VALVE SEGMENT ASSY, Carburetor air filter air	1	
-45	159--2204	. . SHAFT ASSY, Carburetor air valve filter air door drive	1	
-46	159--2206	. . SHAFT, Carburetor air valve filter air door	1	
-46	159--2148	. VALVE SEGMENT ASSY, Carburetor air mixing valve hot air door.	1	
-47	159--2203	. . SHAFT ASSY, Carburetor air valve hot air door drive	1	
-48	159--2205	. . SHAFT, Carburetor air valve hot air door	1	
-49	159--2192	. SPRING, Engine carbureter sand escape manifold seal	1	
-50	159--2193	. SEAL, Engine carbureter sand escape manifold	1	4-25
	159--2139	. SEAL, Carburetor air mixing valve sand escape manifold	1	26-
-51	AN509-10-8	. SCREW	10	
-52	151[illegible]-6	. WASHER (Shakeproof)	10	
-53	159--2208	. GASKET, Carburetor air mixing valve housing	1	
-54	159--2207	. FLANGE, Carburetor air mixing valve housing	1	
-55	159--2146	. BODY ASSY, Carburetor air mixing valve	1	4-25
	159--2146-11	. BODY ASSY, Carburetor air mixing valve	1	26-40
	159--2146-13	. BODY ASSY, Carburetor air mixing valve	1	41-
-56	4B2810-024	. . BUSHING, Press fit flanged (North American)	2	
-57	RD216SH6.5L	. . INSERT (Rosan)	13	
-58	RL25EB	. . LOCK RING (Rosan)	13	
-59	159--2221	. PLATE, Carburetor air valve detent supporting	1	41-
	2W10-8-42-32	. WASHER, Plain (North American)	AR	

POWER PLANT AND ENGINE SECTION (Cont)

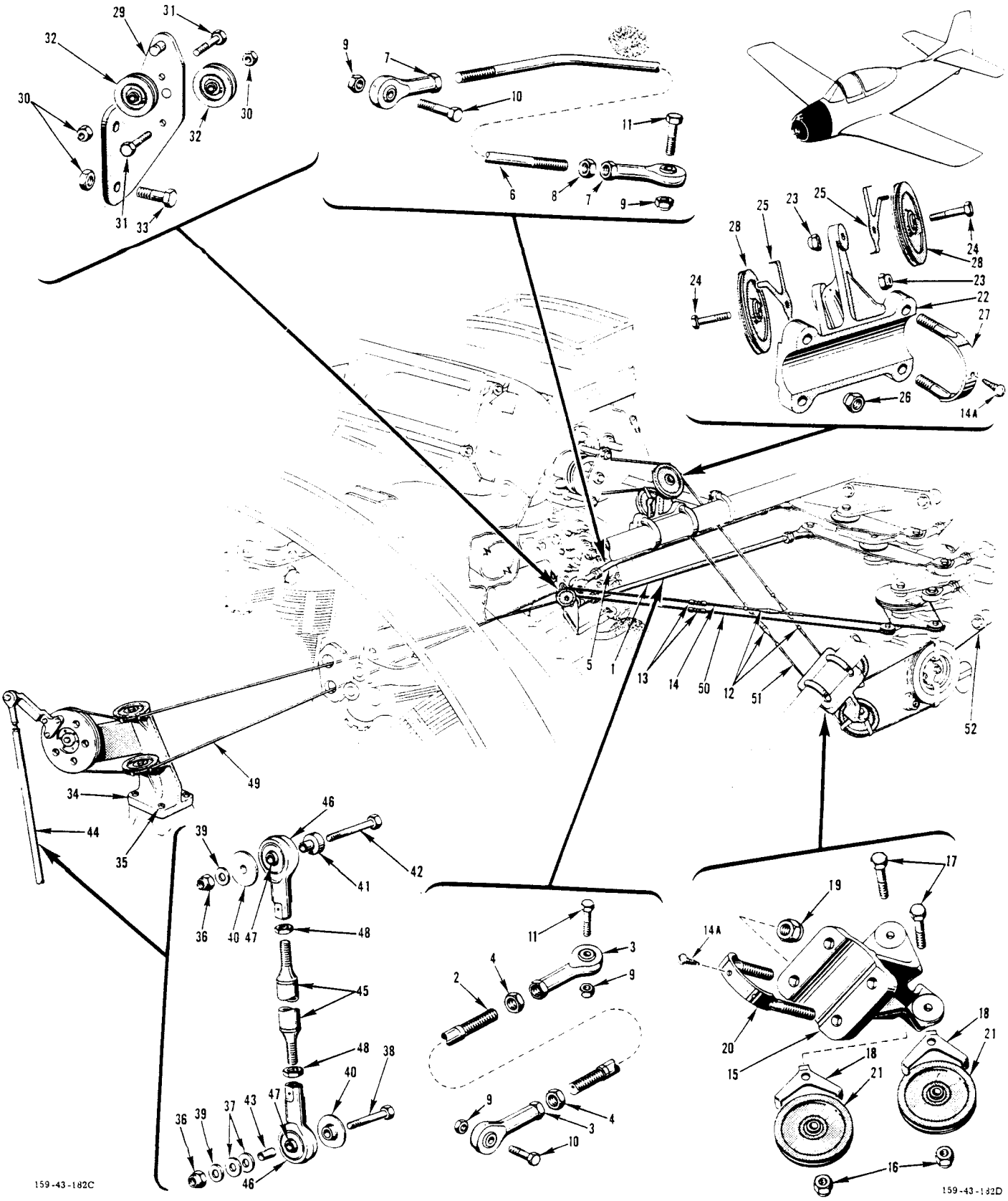


FIGURE 229 - ENGINE SECTION CONTROL EQUIPMENT

AN 01-60FGA--

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
229			ENGINE SECTION CONTROL EQUIPMENT		
	159--3037	.	ENGINE CONTROL EQUIPMENT INSTALLATION, Engine section to fuselage section (see Figure 231 for next assembly)	NP	
-1	159--3041	. .	ROD ASSY, Throttle control firewall to eng (superseded by 159--3041-10. 159--3041 may be used interchangeably with 159--3041-10 until stock is exhausted)	1	----1
	159--3041-10	. .	ROD ASSY, Throttle control firewall to eng (supersedes 159--3041 for future procurement)	1	
-2	159--3041-5	. . .	TUBE ASSEMBLY, Throttle control firewall to engine (used in 159--3041)	1	----1
	159--3041-7	. . .	TUBE ASSEMBLY, Throttle control firewall to engine (used in 159--3041-10)	1	
-3	MS-FF	. . .	ROD END, Ball bearing (Fafnir)	2	
-4	AN316-6R	. . .	NUT	2	
-5	159--3042	. .	ROD ASSY, Mixture control firewall to engine	1	
-6	159--3042-5	. . .	TUBE ASSY, Mixture control firewall to engine	1	
-7	MS-FF	. . .	ROD END, Ball bearing (Fafnir)	2	
-8	AN316-6R	. . .	NUT	2	
-9	AN316-2R	. .	NUT	1	
-10	AN4-12A	. .	BOLT	2	
-11	AN4-10A	. .	BOLT	2	
-12	AN128-63	. .	BARREL	2	
-13	MS22656-2	. .	TERMINAL, Lock detachable (American Chain & Cable)	2	
-14	174--3043	. .	CABLE ASSY, Eng control propeller governor intermediate	1	
-14A	AN5310-6R4	. .	SCREW	2	
	159--3043	.	ENGINE CONTROL EQUIPMENT INSTALLATION, Engine section (see Figure 231 for next assem.)	NP	
-15	159--3103	. .	BRACKET, Engine control barometric air lower idler support	1	
-16	AN316-1032	. .	NUT	2	
-17	AN3-10A	. .	BOLT	2	
-18	159--3104	. .	PULLEY, Engine control barometric air lower idler pulley	2	
-19	AN316-428	. .	NUT	2	
-20	MS-20	. .	BOLT, Aux (Wilcox American)	2	
-21	AN960-4A	. .	WASHER	2	
-22	159--3105	. .	BRACKET, Engine control barometric air upper idler sup.	1	
-23	AN316-1032	. .	NUT	2	
-24	AN3-7A	. .	BOLT	2	
-25	159--3080-1	. .	PULLEY, Engine control barometric air upper idler pulley	1	
-26	AN316-428	. .	NUT	2	
-27	MS-20	. .	BOLT, Aux (Wilcox American)	2	
-28	AN960-4A	. .	WASHER	2	
-29	159--3052	. .	BRACKET ASSY, Eng control propeller governor bowl sta 28.	1	
-30	AN316-1032	. .	NUT	2	
-31	AN3-6A	. .	BOLT	2	
-32	AN960-10A	. .	PULLEY	2	
-33	AN3-7A	. .	BOLT	2	
-34	159--3076	. .	BRACKET ASSY, Engine control propeller governor fwd (see Figure 226 for detail breakdown)	1	
	ATTACHING PARTS				
-35	AN365-524	. .	NUT	4	
	---*---				
-36	AN365-428	. .	NUT	2	
-37	AN960-416	. .	WASHER	2	
-38	AN4-13A	. .	BOLT	1	
	174-43952	.	ROD ASSY, Eng control propeller governor fwd spare	1	
-39	2W18-416 *	. .	WASHER, Flat North American	2	
-40	174-43038 *	. .	WASHER, Engine control propeller governor rod	2	
-41	174-43055 *	. .	BUSHING, Engine control propeller governor rod	1	
-42	AN4-15A *	. .	BOLT	1	
-43	174--3054 *	. .	SPACER, Engine control propeller governor rod	1	
-44	174--3052-15 *	. .	ROD ASSY, Eng control propeller governor fwd.	1	
-45	174--3052-3	. . .	TUBE ASSY, Engine control propeller governor fwd	1	
-46	174--3039-7	. . .	FITTING ASSY, Engine control propeller governor fwd. Rod	2	
-47	SK6-8--	. . . .	MOUNT (Lord) (supersedes SK6-8-3 and 174--3039-9 for future procurement which may be used interchangeably until stock is exhausted)	1	
-48	AN316-6R	. . .	NUT	2	
-49	174--3047		CABLE ASSY, Eng control propeller governor fwd (see Fig. 226)	Ref	
-50	174--3049		CABLE ASSY, Eng control propeller governor aft (see Fig. 231)	Ref	
-51	174--3078		CABLE ASSY, Eng control firewall idler bellcrank (see Fig. 231)	Ref	
-52	See 159--3031 Fus		LH Side Panel Eng Control Equip Instl (see Fig. 230)	Ref	

* 174-43052-15 Rod together with 174--3038 Washer, 174-43054 Spacer, 174-43055 Bushing, AN4-15 Bolt and 2W18--16 Washer, supersede 159--3043 Rod together with AN4-13A Bolt and 2W1-17-28-32 Washer. 159--3043 not satisfactory to use.

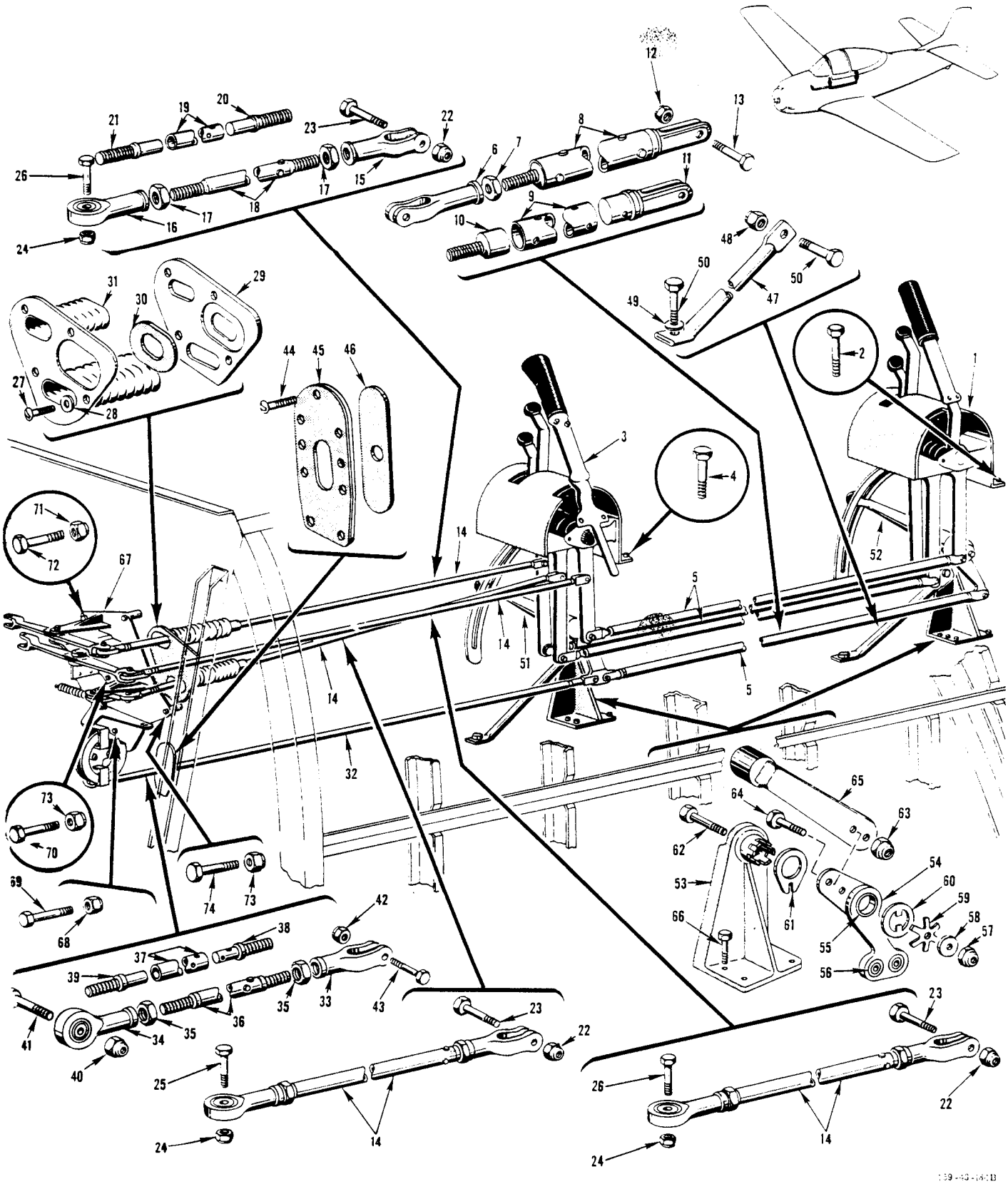


FIGURE 230 - FUSELAGE LH SIDE PANEL ENGINE CONTROL EQUIPMENT

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
230	158--3031	ENGINE CONTROL EQUIPMENT INSTALLATION, Fuselage LH side panel (see figure 62 for next assembly)	NP	
-1	158--3105	. QUADRANT ASSY, Eng control rear (see fig. 235 for breakdown).	1	4-843
	158--3105-5	. QUADRANT ASSY, Eng control rear (see fig. 235 for breakdown).	1	844-
-2	AN3-5A	. BOLT	4	
-3	158--3005-5	. QUADRANT ASSY, Eng control front (see fig. 232 for breakdown)	1	4-593
	158--3005-15	. QUADRANT ASSY, Eng control front (see fig. 232 for breakdown)	1	594-843
	158--3005-20	. QUADRANT ASSY, Eng control front (see fig. 232 for breakdown)	1	844-
-4	AN3-5A	. BOLT	4	
-5	158--3032	. ROD ASSEMBLY, Engine control inter-cockpit	3	
-6	158--3035	. . CLEVIS, Engine control rod	1	
-7	AN316-5R	. . NUT	1	
-8	158--3032-5	. . TUBE ASSEMBLY, Engine control inter-cockpit	1	
-9	158--3032-3	. . . TUBE, Engine control inter-cockpit	1	
-10	158--3034	. . . FITTING, Engine control inter-cockpit rod	1	
-11	158--3033	. . CLEVIS, Engine control inter-cockpit rod	1	
-12	AN316-1032	. NUT	1	
-13	AN3-6A	. BOLT	1	
-14	158--3063	. ROD ASSY, Engine control throttle, propeller and mixture quadrant to firewall	3	
-15	158--3035	. . CLEVIS, Engine control rod	1	
-16	RE-5S	. . ROD END (Fafnir Bearing)	1	
-17	AN316-5R	. . NUT	1	
-18	158--3063-3	. . TUBE ASSY, Engine control mixture quadrant to firewall	1	
-19	158--3063-5	. . . TUBE, Engine control mixture quadrant to firewall	1	
-20	184P6-524	. . . ROD END, Threaded (North American	1	
-21	184-6-524	. . ROD END, Threaded (North American	1	
-22	AN364-1032	. NUT	3	
-23	AN3-6A	. BOLT	3	
-24	AN365-428	. NUT	3	
-25	AN3-11A	. BOLT	2	
-26	AN3-11A	. BOLT	1	
-27	AN515-8-12	. SCREW	4	
-28	AN960-8	. WASHER	4	
-29	158--3057	. RETAINER ASSY, Engine control rod firewall boot	1	
-30	158--3058	. SEAL, Engine control throttle rod firewall	1	
-31	158--3056	. BOOT, Engine control rod firewall	1	
-32	158--3061	. ROD ASSEMBLY, Engine control carb air quadrant to firewall	1	
-33	158--3035	. . CLEVIS, Engine control throttle quadrant to firewall	1	
-34	RE-5S	. . ROD END (Fafnir Bearing)	2	
-35	AN316-5R	. . NUT	2	
-36	158--3061-7	. . TUBE ASSY, Engine control carb air quadrant to firewall	1	
-37	158--3061-3	. . . TUBE, Engine control carb air quadrant to firewall	1	
-38	184P8-524	. . . ROD END, Threaded (North American	1	
-39	184-8-524	. . ROD END, Threaded (North American	1	
-40	AN365-428	. NUT	1	
-41	MA3222-22	. SCREW, Brazier head Phillips recess alloy steel 1/4-28	1	
-42	AN364-1032	. NUT	1	
-43	AN3-6A	. BOLT	1	
-44	AN515-8-10	. SCREW	4	
-45	158--3126	. RETAINER ASSY, Engine control carb air rod firewall seal	1	
-46	158--3127	. SEAL, Engine control carburetor air rod firewall	1	
-47	158--3129	. BRACE ASSY, Engine control carb air control quadrant	2	
-48	AN365-1032	. NUT	2	
-49	AN960D10	. WASHER	4	
-50	AN3-5A	. BOLT	1	
-51	158--3084	. QUADRANT ASSY, Engine control cockpit carb air (front)	1	
-52	158--3084-3	. QUADRANT ASSY, Engine control cockpit carb air (rear)	1	
-53	158--43081	. . SUPPORT, Engine control cockpit carb air lever	1	
-54	158--43083-5	. . BELLCRANK ASSY, Eng control fwd cockpit carb air (front	1	
	158--43091-5	. . BELLCRANK ASSY, Eng control aft cockpit carb air (rear	1	
-55	158--43086	. . . BEARING, Engine control cockpit carb air bellcrank	1	
-56	AN201K3A	. . . BEARING	1	
-57	AN364-428	. . NUT	1	
-58	AN960D416	. . WASHER	1	
-59	158--43087	. . SPRING, Engine control cockpit carb air friction	1	
-60	158--43088	. . DISC, Engine control cockpit carb air friction outboard	1	
-61	158--43089	. . DISC, Engine control cockpit carb air friction inboard	1	
-62	AN4-15A	. . BOLT	1	
-63	AN365-1032	. . NUT	2	
-64	AN3-5A	. . BOLT	2	
-65	158--43085-11	. . LEVER ASSY, Engine control cockpit carburetor air supersedes 158--3085)	1	
-66	AN3-5A	. BOLT	6	
-67	158--43050-5	. BRACKET ASSY, Eng control firewall (see fig. 231 for breakdown)	1	
-68	AN365-1032	. NUT	1	
-69	AN3-17A	. BOLT	1	
-70	AN3-17A	. BOLT	2	
-71	AN365-428	. NUT	2	
-72	AN4-17A	. BOLT	2	
-73	AN365-624	. NUT	2	
-74	AN3-20A	. BOLT	1	

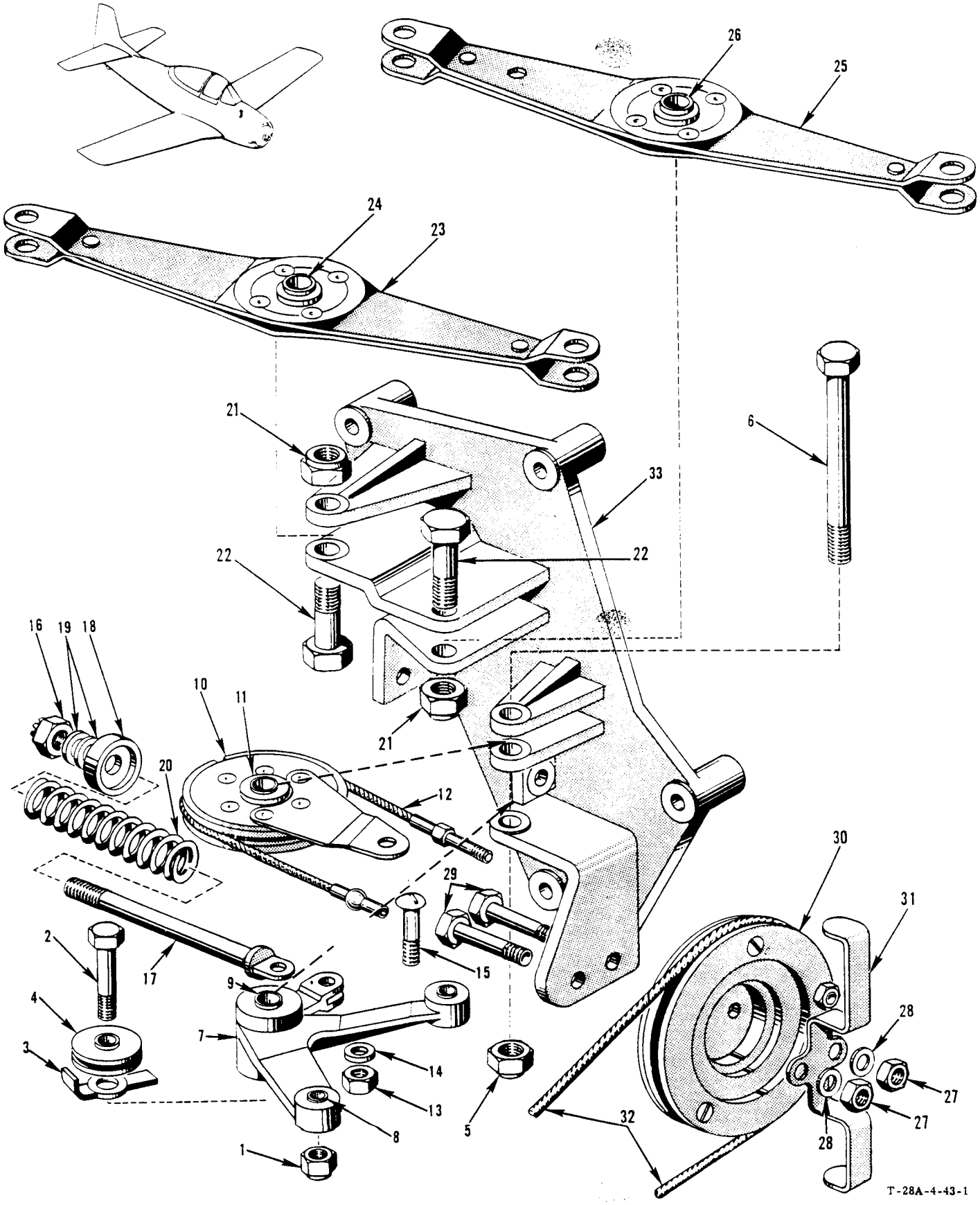


FIGURE 231 - FIREWALL ENGINE CONTROLS BRACKET ASSEMBLY

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
231	159-43050-5		BRACKET ASSEMBLY, Engine controls firewall (see Figure 230 for next assembly)	Ref	
-1	AN365-1032	.	NUT	2	
-2	AN3-12A	.	BOLT	2	
-3	159-43097	.	GUARD, Engine controls prop. rear idler pulley cable	2	
-4	AN210-1A	.	PULLEY	2	
-5	AN365-428	.	NUT	1	
-6	AN4-27A	.	BOLT	1	
-7	159-43049	.	BELLCRANK ASSY, Engine controls prop. governor idler	1	
-8	AN201KP4A	. .	BEARING	2	
-9	4B19S3-006	. .	BUSHING, Press fit plain (North American)	2	
-10	159-43065	.	PULLEY ASSEMBLY, Engine control propeller governor aft drive	1	
-11	AN218-4	. .	BEARING	1	
-12	174-43049	.	CABLE ASSEMBLY, Engine control propeller governor aft	1	
-13	AN320-3	.	NUT	1	
-14	AN960D10L	.	WASHER	1	
-15	AN23-12	.	BOLT	1	
-16	AN310-4	.	NUT	1	
-17	AN43-42	.	BOLT	1	
-18	159-43055	.	RETAINER, Engine control propeller governor spring station -7 1.2	1	
-19	2W18-416	*1 .	WASHER, Flat (North American)	2	
-20	200-43021	.	SPRING, COMPRESSION DIE	1	
-21	AN365-428	.	NUT	2	
-22	AN4-13A	.	BOLT	2	
-23	159-43047	.	BELLCRANK ASSY, Engine control mixture idler firewall	1	
-24	AN218-4	. .	BEARING	1	
-25	159-43048	.	BELLCRANK ASSY, Engine control throttle idler firewall	1	
-26	AN218-4	. .	BEARING	1	
-27	AN365-428	.	NUT	2	
-28	AN960D416	.	WASHER	1	
-29	AN4-11A	.	BOLT	2	
-30	4L1966	.	BELLCRANK, 3 12 Lbs/in control (Hensen-Lynn Co.)	1	
-31	159-43093	.	GUARD, Engine controls cabo air irreversible pulley cable	1	
-32	159-43078	.	CABLE ASSY, Engine control cabo air control aft	1	
-33	159-43046	.	BRACKET, Engine control firewall idler bellcrank	1	

*1 Refer to P. I. IT-18A-131

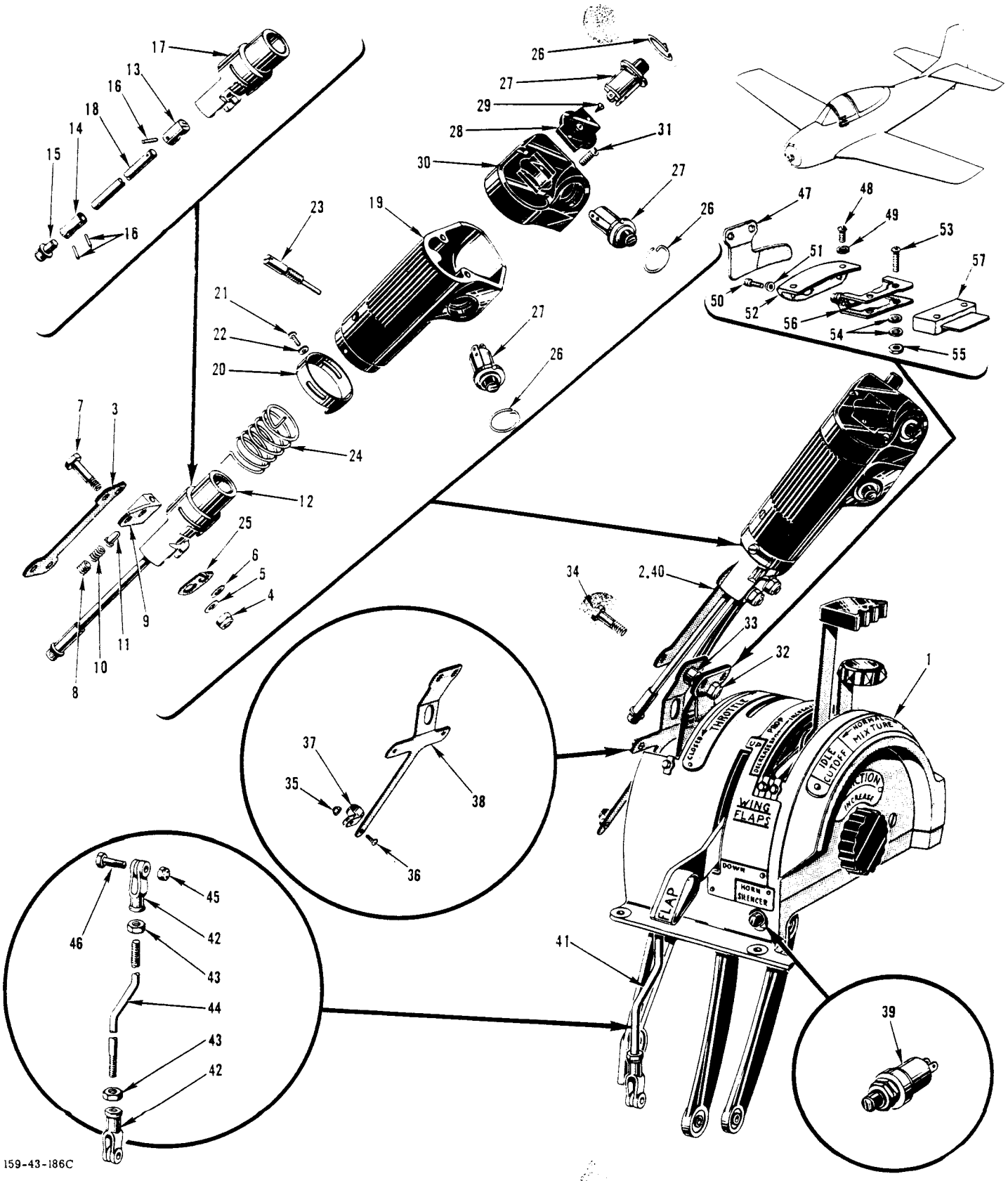
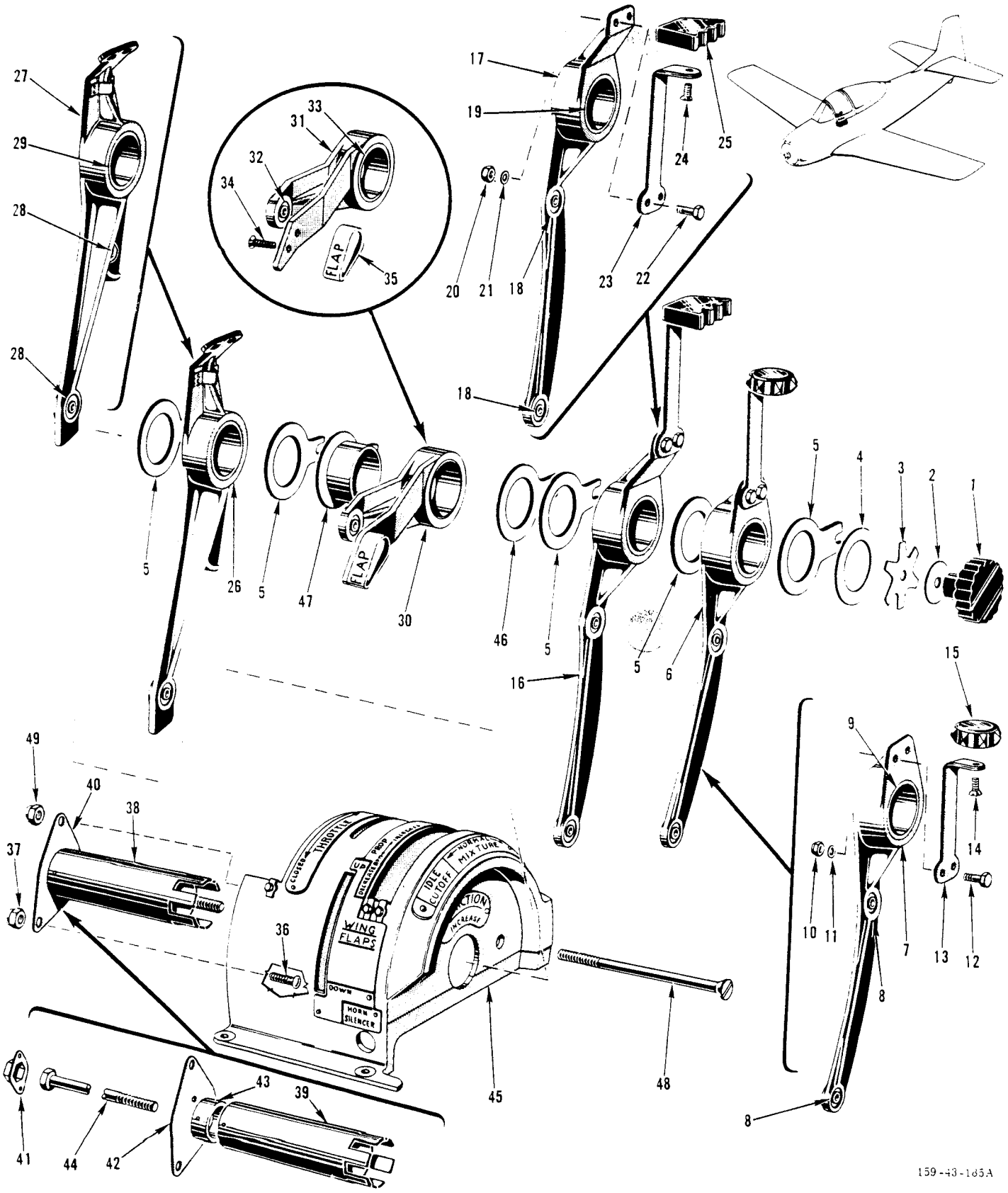


FIGURE 232 - ENGINE CONTROL FRONT QUADRANT ASSEMBLY

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
232	159-43005-5	QUADRANT ASSEMBLY, Engine control front see figure 230 for next assembly)	Ref	4-593
	159-43005-15	QUADRANT ASSEMBLY, Engine control front see figure 230 for next assembly)	Ref	594-843
	159-43005-20	QUADRANT ASSEMBLY, Engine control front see figure 230 for next assembly)	Ref	844-
-1	50000	. QUADRANT ASSEMBLY, Front cockpit Adams Rite Mfg Co) (see figure 233 for detail breakdown)	1	
-2	159-43016	. LEVER ASSEMBLY, Engine control front quadrant throttle	1	4-593
-3	159-43017	. . BLADE, Engine control front throttle lever	1	4-593
-4	AN365-428	. . NUT	2	4-593
-5	2W1-17-20-31	. . WASHER, Plain (North American)	1	4-593
-6	2W1017-13-50	. . WASHER, Plain (North American)	1	4-593
-7	AN-13A	. . BOLT	2	4-593
-8	16mm	. . SCREW, 1/4-20 x 5/16 slotted cup point headless set	1	4-593
-9	159-43025	. . DETENT, Engine control front quadrant throttle lever	1	4-593
-10	161-43062	. . SPRING, Engine power control lever detent	1	4-593
-11	161-43061	. . PLUNGER, Engine power control lever detent	1	4-593
-12	159-43018	. . ADAPTER ASSEMBLY, Engine control pilot's quadrant throttle handle	1	4-593
-13	159-43019	. . . FITTING, Engine control throttle manual range unit drive shaft	1	4-593
-14	159-43029	. . . SLEEVE, Engine control throttle manual range unit drive shaft	1	4-593
-15	AS7139K2	. . . FITTING, Splined gear S. S. White	1	4-593
-16	159-43018-5	. . . PIN, Engine control pilot's quadrant throttle handle	2	4-593
-17	159-43024	. . . ADAPTER, Engine control front quadrant throttle grip	1	4-593
-18	159-43018-3	. . . SHAFT, Engine control pilot's quadrant throttle handle	1	4-593
-19	159-43022	. . GRIP ASSEMBLY, Engine control front quadrant throttle	1	4-593
-20	159-43027	. . PIN, Engine control front quadrant throttle lever	1	4-593
-21	AN515-6-8	. . SCREW	2	4-593
-22	AN960C6	. . WASHER	2	4-593
-23	161-43060	. . PIN, Engine power control lever	1	4-593
-24	161-43062	. . SPRING, Engine power control handle	1	4-593
-25	159-43026	. . STUD, Engine control front quadrant throttle lever	1	4-593
-26	161-43063	. . SPRING, Engine throttle microphone switch retaining	3	4-593
-27	134116	. . SWITCH, Cutler	3	4-593
-28	159-43026	. . PIN, Engine control quadrant throttle handle cap	1	4-593
-29	8X5-440-3	. . SCREW, Parker-Kalon	1	4-593
-30	159-43021	. . CAP, Engine control front quadrant throttle grip	1	4-593
-31	AN515-4-12	. SCREW	2	4-593
-32	AN365-428	. NUT	2	
-33	159-43023	. SPACER, Engine control quadrant throttle lever	2	
-34	AN4-11A	. BOLT	2	
-35	AN365-632	. NUT	1	4-593
-36	AN515-6-6	. SCREW	1	4-593
-37	AN7-2D62	. CLAMP	1	4-593
-38	159-43019	. SUPPORT, Engine control quadrant manual range unit	1	4-593
-39	134114	. SWITCH, Cutler	1	
-40	159-43116-5	. LEVER ASSY, Engine control quadrant throttle see figure 235 for detail breakdown	1	594-843
	159-43116-15	. LEVER ASSY, Engine control quadrant throttle see figure 235 for detail breakdown	1	844-
-41	159-58227	. ROD ASSEMBLY, Hydraulic wing flap selector valve quadrant to floor	1	
-42	159-43035	. . CLEVIS, Engine control rod	2	
-43	AN316-5R	. . NUT	2	
-44	159-58227-3	. . ROD, Hydraulic wing flap selector valve quadrant to floor	1	
-45	AN364-1032	. NUT	1	
-46	AN3-6A	. BOLT	1	
-47	159-54461	. CAM, Engine control quadrant alignting gear warning switch	1	
-48	AN520-10R12	. SCREW	2	
-49	AN960D10	. WASHER	2	
-50	AN501A6--	. SCREW	2	
-51	AN960D6	. WASHER	2	
-52	159-54460	. BRACKET ASSEMBLY, Engine control quadrant alignting gear warning switch	1	
-53	AN515-6-18	. SCREW	2	
-54	AN960D6	. WASHER	4	
-55	AN365-632	. NUT	2	
-56	MB2731	. ACTUATOR, Micro Switch	1	
-57	AN3216-1	. SWITCH ASSEMBLY, Ld warning horn	1	



159-43-165A

FIGURE 233 - FRONT COCKPIT QUADRANT ASSEMBLY

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
233	50000		QUADRANT ASSY, Front Cockpit (See fig. 232 for next assy) (Adams Rite Mfg. Co.)	Ref	
-1	QF100		. KNOB, Friction (Adams Rite Mfg. Co.)	1	
-2	QJ100		. WASHER, (Adams Rite Mfg. Co.)	1	
-3	QS100		. SPRING, Friction Adjusting (Adams Rite Mfg. Co.)	1	
-4	QC101		. WASHER, (Adams Rite Mfg. Co.)	1	
-5	QQ100		. DISC, Friction (Adams Rite Mfg. Co.)	1	
-6	QY101-2		. LEVER ASSY, Mixture (Adams Rite Mfg. Co.)	1	
-7	QA101-2		. . LEVER, Mixture (Adams Rite Mfg. Co.)	1	
-8	AN201KDA		. . BEARING	1	
-9	QJ100-4		. . BEARING, Arm (Adams Rite Mfg. Co.)	1	
-10	AN365-1032		. . NUT	1	
-11	AN960-10L		. . WASHER	1	
-12	AN3-5A		. . BOLT	1	
-13	QA100		. . ARM, Mixture (Adams Rite Mfg. Co.)	1	
-14	AN507-8-6		. . SCREW	1	
-15	QF100		. . KNOB, Mixture (Adams Rite Mfg. Co.)	1	
-16	QY102-2		. LEVER ASSY, Propeller (Adams Rite Mfg. Co.)	1	
-17	QA102-2		. . LEVER, Propeller (Adams Rite Mfg. Co.)	1	
-18	AN201KDA		. . BEARING	1	
-19	QJ100-3		. . BEARING, Arm (Adams Rite Mfg. Co.)	1	
-20	AN365-1032		. . NUT	1	
-21	AN960-10L		. . WASHER	1	
-22	AN3-5A		. . BOLT	1	
-23	QA100		. . ARM, Propeller (Adams Rite Mfg. Co.)	1	
-24	AN507-8-6		. . SCREW	1	
-25	QF100		. . KNOB, Propeller (Adams Rite Mfg. Co.)	1	
-26	QY103-2		. LEVER ASSY, Throttle (Adams Rite Mfg. Co.)	1	
-27	QA103-2		. . LEVER, Throttle (Adams Rite Mfg. Co.)	1	
-28	AN201KDA		. . BEARING	1	
-29	QJ100-2		. . BEARING, Arm (Adams Rite Mfg. Co.)	1	
-30	QY104-		. LEVER ASSY, Flap (Adams Rite Mfg. Co.)	1	
-31	QA104		. . LEVER, Flap (Adams Rite Mfg. Co.)	1	
-32	AN201KDA		. . BEARING	1	
-33	QJ100		. . BEARING, Arm (Adams Rite Mfg. Co.)	1	
-34	AN507-8-6		. . SCREW	1	
-35	QF104		. . KNOB, Flap (Adams Rite Mfg. Co.)	1	
-36	AN509--16-10		. SCREW	1	
-37	22K1-048		. CAP NUT, (Elastic Stop Nut)	1	
-38	QF100		. HUB ASSY, (Adams Rite Mfg. Co.)	1	
-39	QT100		. . TUBE, Hub (Adams Rite Mfg. Co.)	1	
-40	QY100		. . COVER ASSY (Adams Rite Mfg. Co.)	1	
-41	22C1-048		. . . RETAINER, (Watt-Shel)	1	
-42	QP100		. . . PLATE, Hub (Adams Rite Mfg. Co.)	1	
-43	QV100		. . . PLUG, Hub (Adams Rite Mfg. Co.)	1	
-44	AN--50A		. . . BOLT	1	
-45	QY100-2		. HOUSING ASSY, (Adams Rite Mfg. Co.)	1	
-46	QQ100-2		. DISC, Plate (Adams Rite Mfg. Co.)	1	
-47	QY107		. HUB ASSY, (Adams Rite Mfg. Co.)	1	
-48	AN509-416-88		. SCREW	1	
-49	22K1-048		. CAP NUT, (Elastic Stop Nut)	1	

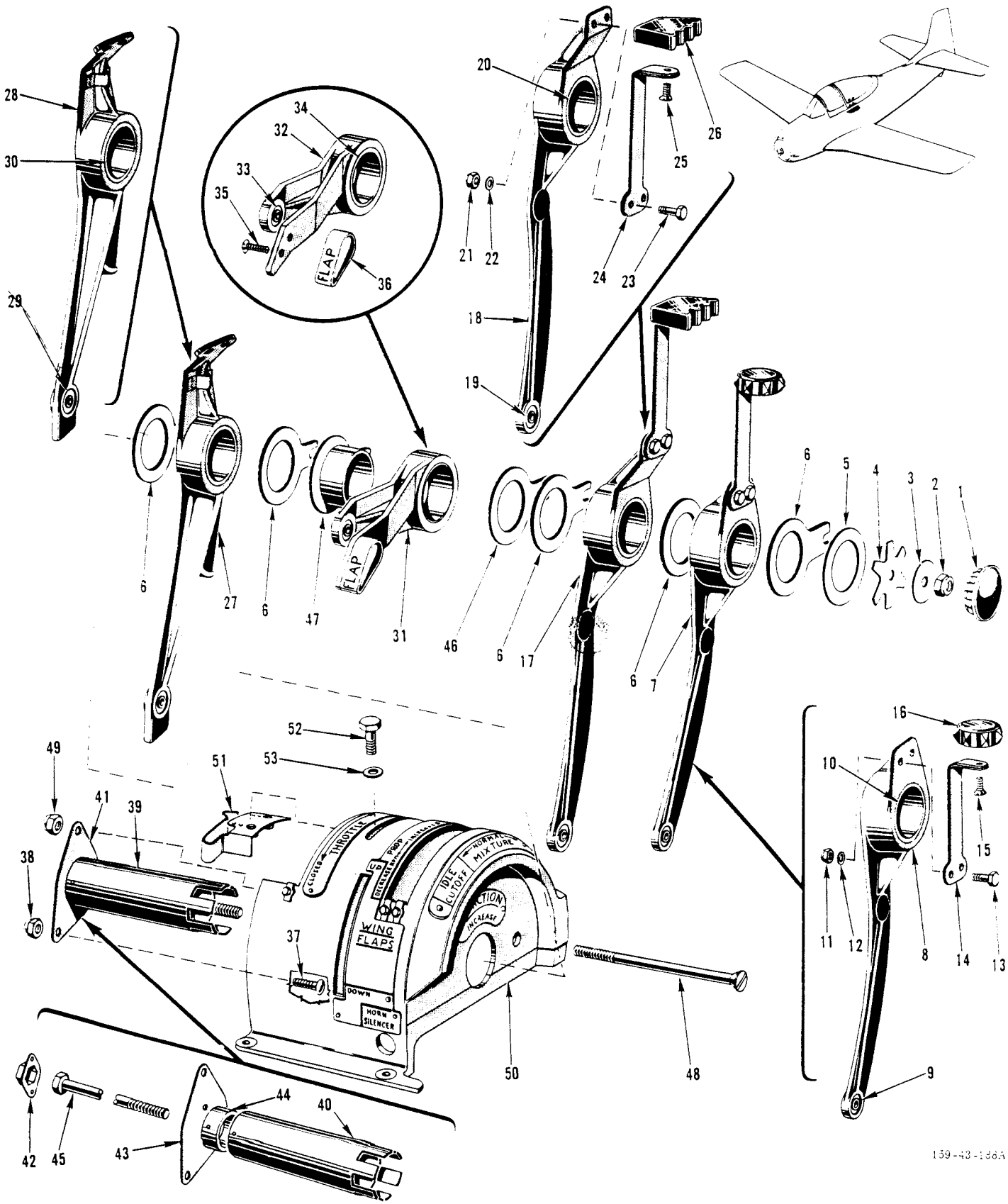


FIGURE 234 - REAR COCKPIT QUADRANT ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
234	50001	QUADRANT ASSY, Rear Cockpit (Adams Rite Mfg. Co.) (see Figure 235 for next assembly)	Ref	
-1	MS39F100	. PLUG, Button (United-Carr)	1	
-2	AN364--28	. NUT	1	
-3	*A1100	. WASHER, (Adams Rite Mfg. Co.)	1	
-4	*A1100	. SPRING, Friction (Adams Rite Mfg. Co.)	1	
-5	*A1101	. WASHER (Adams Rite Mfg. Co.)	1	
-6	*A1104	. DISC, Friction (Adams Rite Mfg. Co.)	1	
-7	*A1101-2	. LEVER ASSY, Mixture (Adams Rite Mfg. Co.)	1	
-8	*A1101-3	. . LEVER, Mixture (Adams Rite Mfg. Co.)	1	
-9	AN001K3A	. . BEARING	1	
-10	*A1100--	. . BEARING, Arm (Adams Rite Mfg. Co.)	1	
-11	AN365-1032	. . NUT	1	
-12	AN960-10L	. . WASHER	1	
-13	AN3-5A	. . BOLT	1	
-14	*A1101	. . ARM, Mixture (Adams Rite Mfg. Co.)	1	
-15	AN507-6-6	. . SCREW	1	
-16	*F1100	. . KNOB, Mixture (Adams Rite Mfg. Co.)	1	
-17	*Y1102-2	. LEVER ASSY, Propeller (Adams Rite Mfg. Co.)	1	
-18	*A1102-3	. . LEVER, Propeller (Adams Rite Mfg. Co.)	1	
-19	AN201K3A	. . BEARING	1	
-20	*A1100-3	. . BEARING, Arm (Adams Rite Mfg. Co.)	1	
-21	AN365-1032	. . NUT	1	
-22	AN960-10L	. . WASHER	1	
-23	AN3-5A	. . BOLT	1	
-24	*A1102	. . ARM, Propeller (Adams Rite Mfg. Co.)	1	
-25	AN507-8-6	. . SCREW	1	
-26	*F1102	. . KNOB, Propeller (Adams Rite Mfg. Co.)	1	
-27	*Y1103-3	. LEVER ASSY, Throttle (Adams Rite Mfg. Co.)	1	
-28	*A1103-3	. . LEVER, Throttle (Adams Rite Mfg. Co.)	1	
-29	AN201K3A	. . BEARING	1	
-30	*A1100-2	. . BEARING, Arm (Adams Rite Mfg. Co.)	1	
-31	*A1104	. LEVER ASSY, Flap (Adams Rite Mfg. Co.)	1	
-32	*A1104	. . LEVER, Flap (Adams Rite Mfg. Co.)	1	
-33	AN201K3A	. . BEARING	1	
-34	*A1102	. . BEARING, Arm (Adams Rite Mfg. Co.)	1	
-35	AN507-8-6	. . SCREW	1	
-36	*F1104	. . KNOB, Flap (Adams Rite Mfg. Co.)	1	
-37	AN509--16-10	. SCREW	1	
-38	22KL-8-8	. NAP NUT, (Elastic Stop Nut)	1	
-39	*Y1106	. HUB ASSEMBLY, (Adams Rite Mfg. Co.)	1	
-40	*Y1106	. . TUBE, Hub (Adams Rite Mfg. Co.)	1	
-41	*Y1105	. . COVER ASSEMBLY, (Adams Rite Mfg. Co.)	1	
-42	*A1100-4	. . . RETAINER, (Quarter-Shaft)	1	
-43	*A1105	. . . PLATE, Hub (Adams Rite Mfg. Co.)	1	
-44	*Y1100	. . . PLUG, Hub (Adams Rite Mfg. Co.)	1	
-45	AN4-30A	. . . BOLT	1	
-46	*A1100-2	. DISC PLATE, (Adams Rite Mfg. Co.)	1	
-47	*Y1107	. HUB ASSEMBLY, (Adams Rite Mfg. Co.)	1	
-48	AN509--16-68	. SCREW	1	
-49	22KL-D48	. NAP NUT, (Elastic Stop Nut)	1	
-50	*Y1100-3	. HOUSING ASSEMBLY, (Adams Rite Mfg. Co.)	1	
-51	*Y1108	. . STOP ASSEMBLY, (Adams Rite Mfg. Co.)	1	
-52	AN3-5A	. . BOLT	1	
-53	*A1102	. . WASHER, (Adams Rite Mfg. Co.)	1	

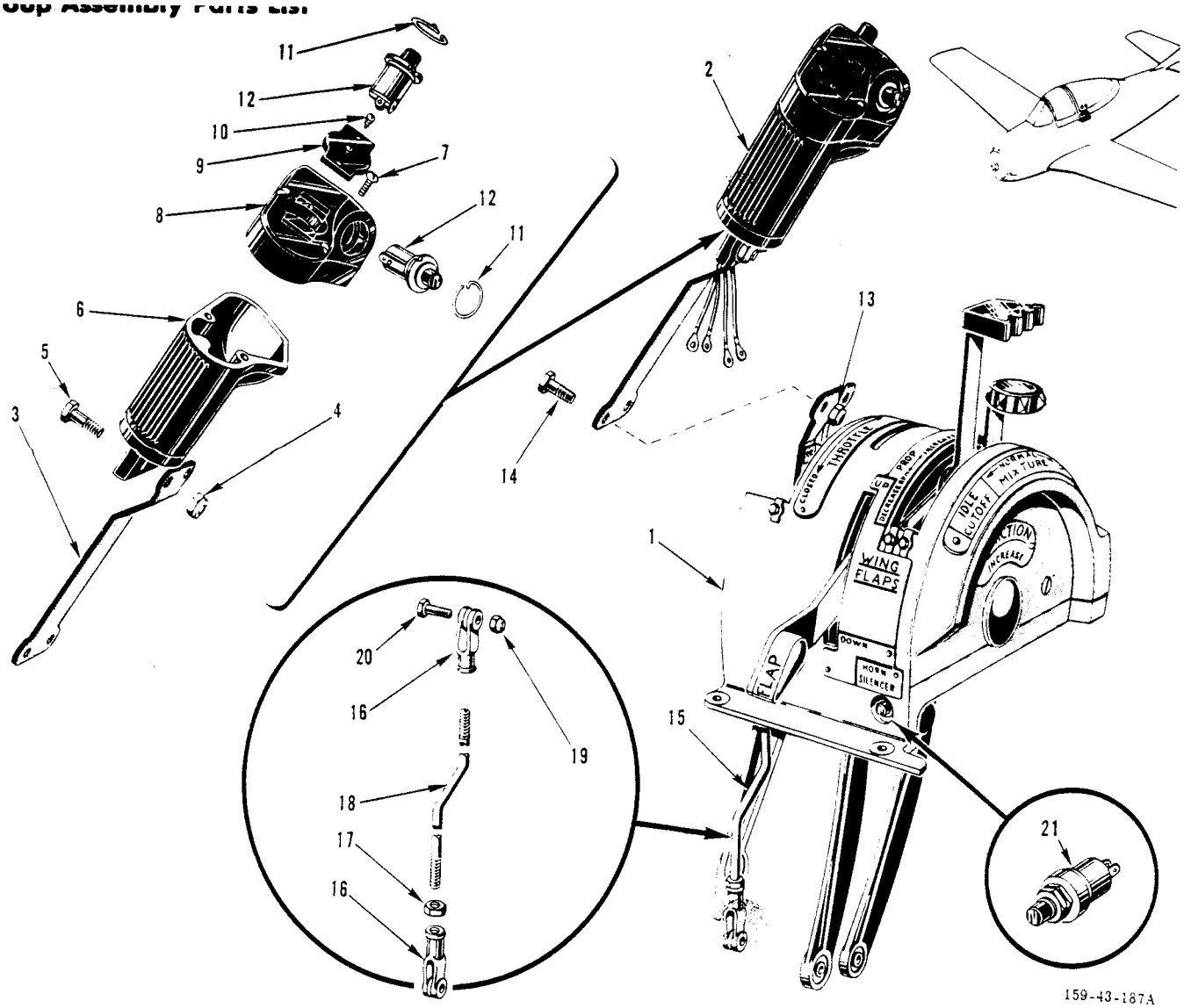


FIGURE 235 - ENGINE CONTROL REAR QUADRANT ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
235 ·	159-43105	QUADRANT ASSY, Eng control rear (see fig. 230 for next assy) . .	Ref	44-843
	159-43105-5	QUADRANT ASSY, Eng control rear (see fig. 230 for next assy) . .	Ref	844-
-1	50001	. QUADRANT ASSEMBLY, Rear cockpit (Adams Rite Mfg. Co.) . . . . (see figure 234 for detail breakdown)	1	
-2	159-43116	. LEVER ASSEMBLY, Engine control quadrant throttle	1	44-843
	159-43116-10	. LEVER ASSEMBLY, Engine control quadrant throttle	1	844-
	159-43116-5	. LEVER ASSY, Eng control quadrant throttle . . . . . (see figure 232 for next assembly)	1	59-43843
	159-43116-15	. LEVER ASSY, Eng control quadrant throttle . . . . . (see figure 232 for next assembly)	1	844-
-3	159-43117	. . BLADE, Engine control rear quadrant throttle lever	1	
-4	AN365-428	. . NUT	2	
-5	AN4-7A	. . BOLT	2	
-6	159-43120	. . GRIP ASSEMBLY, Engine control rear quadrant throttle . . .	1	
-7	AN515-8R10	. . SCREW	2	
-8	159-43021	. . CAP, Engine control front quadrant throttle grip	1	44-843
	159-43021-5	. . CAP, Engine control front quadrant throttle grip	1	844-
-9	159-43028	. . PLUG, Engine control quadrant throttle handle cap	1	
-10	PK5422-5	. . SCREW, (Parker-Kalon)	2	
-11	141-43023	. . SPRING, Engine throttle micropnone switch retaining . . .	2	
-12	138106	. . SWITCH, (Ucinite)	2	
-13	AN364-428	. NUT	2	
-14	AN4-6A	. BOLT	2	
-15	159-58227	. ROD ASSY, Hyd wing flap selector valve quadrant to floor . .	1	
-16	159-43035	. . CLEVIS, Engine control rod	2	
-17	AN316-5R	. . NUT	1	
-18	159-58227-3	. . ROD, Hyd wing flap selector valve quadrant to floor . . .	1	
-19	AN364-1032	. NUT	1	
-20	AN3-6A	. BOLT	1	
-21	138187	. SWITCH, (Ucinite)	1	

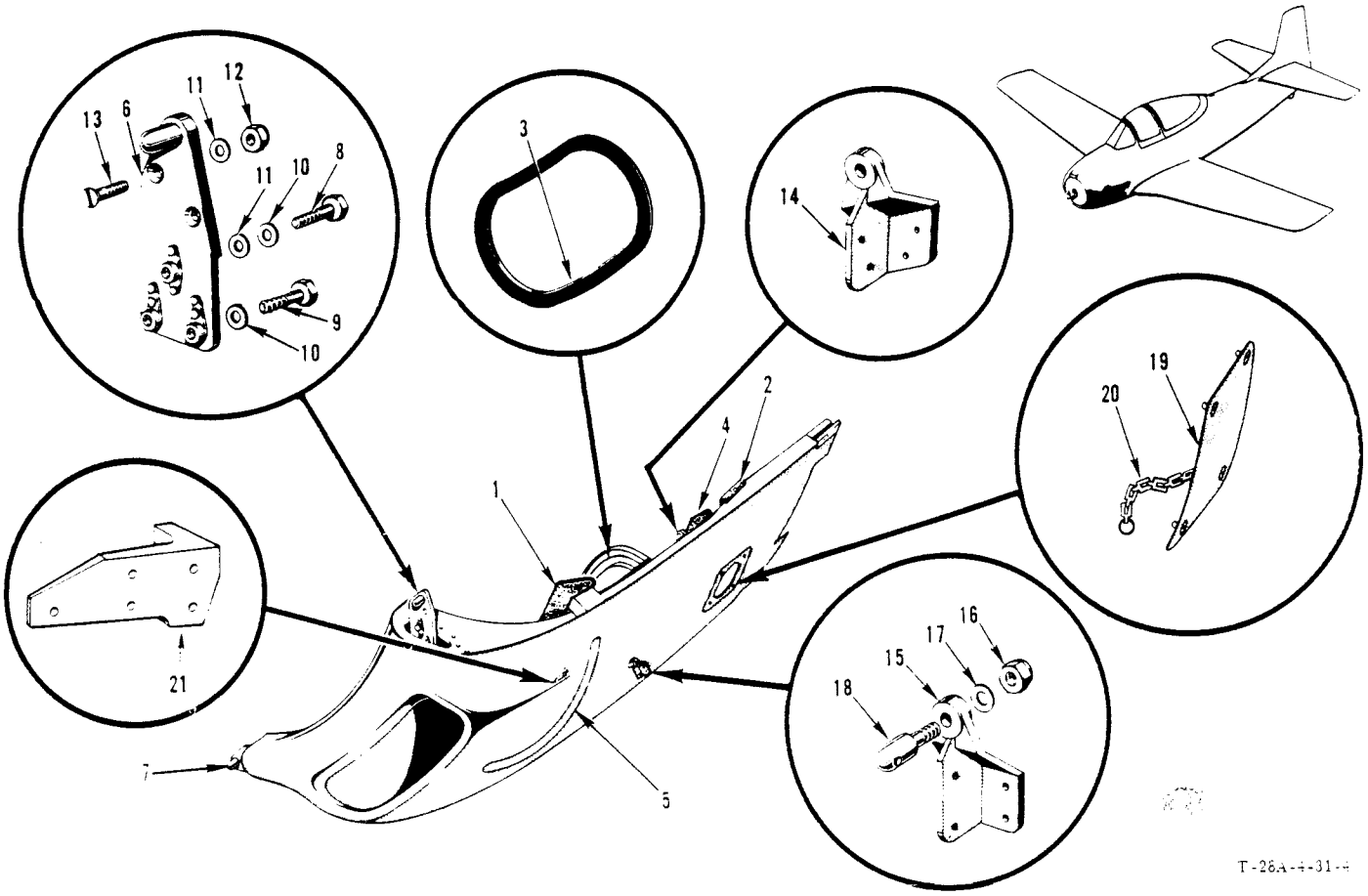


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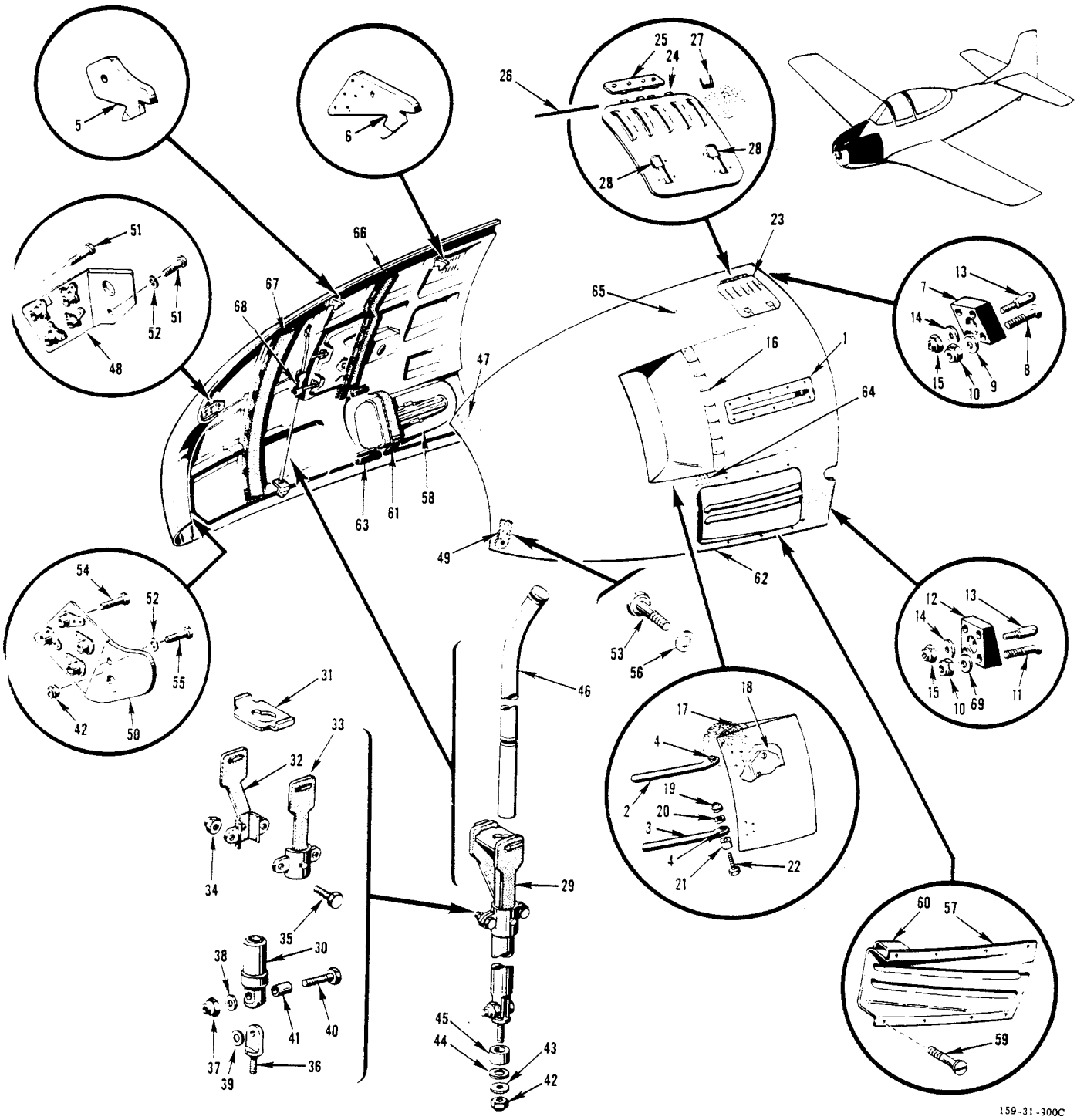
FIGURE 236 - ENGINE LOWER LEFT HAND COWL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
236	159-31507	* COWL ASSY, Engine lower left hand (see fig. 220 for next assy)	Ref	--308
-1	174-31586-7	. . SEAL ASSY, Eng cowl eng air complete (supersedes 159-315262 which may be used intrch until exh)	1	--308
-2	159-31507-27	. SEAL, Engine lower left hand cowl	1	--308
-3	159-47097	. SEAL ASSEMBLY, Oil cooler forward duct	1	--308
-4	159-315265	. SEAL ASSEMBLY, Engine fixed cowl lower LH air cowl sta 28	1	--308
-5	159-31517-3	. SEAL, Engine cowl station 13 1/2 air	1	--308
-6	159-315534	. PLATE ASSY, Engine cowl leading edge upper shear pin	1	4--308
-7	159-315535	. PLATE ASSY, Engine cowl leading edge upper shear pin (supersedes 159-315103)	1	4--308
	ATTACHING PARTS			
-8	AN4-6A	. BOLT, (magnetic inspected)	2	--308
-9	AN4-7A	. BOLT, (magnetic inspected)	4	--308
-10	AN960-416L	. WASHER	6	--308
-11	AN960-416	. WASHER	4	--308
-12	AN365-428	. NUT	4	--308
-13	AN509-416R15	. SCREW		--308
	---*---			
-14	159-31532	. BRACKET, Engine lower LH cowl sta 27 1/8 upper attaching	1	--308
-15	159-31537	. BRACKET, Engine lower LH cowl sta 27 1/8 lower attaching	1	--308
-16	AN365-524	. NUT	1	--308
-17	AN960-516	. WASHER	1	--308
-18	159-315121-3	. PIN, Engine cowl aligning shear	1	--308
-19	159-47317	. DOOR ASSEMBLY, Oil cooler drain access	1	--308
-20	9C1-3-6	. . CHAIN, No. 1 safety (North American)	1	--308
-21	159-315257	. FITTING, Engine lower LH cowl torque box attaching	1	--308

* 159-31507 superseded by 174-31507 together with 174-31504-1, 174-31504-2, 174-31506 and 174-31503.

POWER PLANT AND ENGINE SECTION (Cont)



159-31-300C

FIGURE 237 - UPPER LH AND RH ENGINE SIDE COWL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
-37	159-31504-1	*	COWL ASSY, Engine upper side LH (see Fig. 220 for next assy) . .	Ref	--308
	159-31504-2	*	COWL ASSY, Engine upper side RH (see Fig. 220 for next assy) . .	Ref	--308
-1	No Number		. ENGINE SIDE COWL PANEL LATCH COVER AND LATCH ASSEMBLY . . (see figure 244 for detail breakdown)	NP	--308
-2	159-315592		. BAR ASSEMBLY, Engine side cowl upper flap hinge	1	--308
-3	159-315593		. BAR ASSEMBLY, Engine side cowl lower flap hinge	1	--308
-4	+B19S6-009		. . BUSHING, Press fit plain (North American)	1	4--308
-5	159-315604		. HINGE, Engine side cowl forward	1	--308
-6	159-315605		. HINGE, Engine side cowl aft	1	--308
	159-315423		. HINGE, Engine side cowl aft	1	--160
-7	159-315606		. BLOCK, Engine side cowl upper rear shear pin	1	161-308
-8	AN509-10-19		. SCREW, (magnetic inspected)	4	4--308
-9	AN960C10		. WASHER, (LH)	4	4--308
	AN960D10		. WASHER, (RH)	4	4--308

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
237-10	AN365-1032	.	NUT	6	4-308
-11	AN509-10-18	.	SCREW, (magnetic inspected)	4	4-308
-12	159-315607	.	BLOCK, Engine side cowl lower rear inner pin	1	4-308
-13	159-315121-3	.	PIN, Engine cowl aligning shear	1	4-308
-14	AN960-516L	.	WASHER, (LH side)	1	4-308
	AN960C516L	.	WASHER, (RH side)	1	4-308
-15	AN365-824	.	NUT	4	4-308
	159-315606-1	.	DUCT ASSEMBLY, Engine side cowl cooling air outlet LH	1	4-308
	159-315606-2	.	DUCT ASSEMBLY, Engine side cowl cooling air outlet RH	1	4-308
-16	159-315405	.	. SPRING, Engine cowling flap rear travel	1	4-308
-17	159-315176-51	.	DOOR ASSEMBLY, Engine cowl cooling air exit LH (supersedes 159-315176-1)	1	4-308
	159-315176-52	.	DOOR ASSEMBLY, Engine cowl cooling air exit RH (supersedes 159-315176-2)	1	4-308
-18	159-315160	.	. FITTING, Engine cowl flap actuator attaching	1	4-308
-19	AN315--	.	NUT	1	4-308
-20	AN960C-16	.	WASHER	1	4-308
-21	-B213--010	.	BUSHING, Sealed (North American)	1	4-308
-22	AN4-7	.	BOLT	1	4-308
-23	159-315168	.	DOOR ASSY, Engine cowling oil filler access (LH side only)	1	4-308
-24	159-315168-7	.	. HALF HINGE, Engine cowling oil filler access	1	4-308
-25	159-315168-11	.	. HALF HINGE, Engine cowling oil filler access	1	4-308
-26	AN263-2--00	.	. PIN	1	4-308
-27	159-315200	.	. SPRING, Engine cowl oil filler access door (supersedes 117-31566)	2	4-308
-28	MS100-2-151-115	.	. LATCH, Dartwell aviation	2	4-308
-29	159-315425	.	TUBE ASSY, Engine upper side cowl brace upper (supersedes 159-315425, superseded by 171-31508)	1	4-308
-30	159-315421-3	.	. SLEEVE, Engine upper side cowl brace outer	1	4-308
-31	159-315206	.	. PLATE, Engine side cowl lower outer brace	1	4-308
-32	159-315419	.	. SPRING ASSEMBLY, Engine side cowl outer brace	1	4-308
-33	159-315191	.	. SPRING ASSEMBLY, Engine side	1	4-308
-34	AN365--28	.	. NUT	1	4-308
-35	AN4-7A	.	. BOLT	1	4-308
-36	159-315425-7	.	. BOLT, Engine upper side cowl brace lower tube (supersedes 159-315425)	1	4-308
-37	AN365-1032	.	. NUT	1	4-308
-38	AN960D10	.	. WASHER	1	4-308
-39	LW1-2L-10-16	.	. WASHER, Plain (North American)	1	4-308
-40	AN3-9A	.	. BOLT	1	4-308
-41	-B213S-005	.	. BUSHING, Sealed (North American)	1	4-308
-42	AN365--28	.	NUT	1	4-308
-43	AN960C416	.	WASHER	2	4-308
-44	LW1-2S-10-16	.	WASHER, Plain (North American)	1	4-308
-45	-B213S-008	.	BUSHING, Sealed (North American)	1	4-308
-46	159-315156	.	TUBE ASSEMBLY, Engine upper side cowl brace lower	1	4-308
-47	171-31508-1	.	PLATE ASSY, Engine side cowl upper aligning LH (together with 171-31512-1 angle and 171-31513 shim supersedes 159-315237-1 plate assembly)	1	4-308
-48	171-31508-2	.	PLATE ASSY, Engine side cowl upper aligning RH (together with 171-31512-2 angle and 171-31513 shims supersedes 159-315237-2 plate assembly)	1	4-308
-49	171-31510	.	PLATE ASSY, Engine side cowl lower LH aligning (together with 171-3151- shim and 171-31511-1 angle supersedes 159-315575 plate assembly)	1	4-308
-50	171-31509	.	PLATE ASSY, Engine side cowl lower aligning RH (together with 171-31515-3 and -5 shims and 171-31511-2 angle supersedes 159-315531 plate assembly)	1	4-308
-51	AN4-7A	.	BOLT, (magnetic inspected)	8	4-308
-52	AN960C416L	.	WASHER	2	4-308
-53	AN4-10A	.	BOLT,(LH side) (magnetic inspected)	4	4-308
-54	AN4-11A	.	BOLT, (RH side) (magnetic inspected)	4	4-308
-55	AN4-10A	.	BOLT, (RH side) (magnetic inspected)	1	4-308
	AN4-7A	.	BOLT, (LH side) (magnetic inspected)	1	4-308
-56	AN960C416	.	WASHER, (LH side only)	4	4-308
-57	159-315424-1	.	SHROUD ASSY, Exhaust exit LH (supersedes 159-315404-51)	1	4-308
-58	159-315424-2	.	SHROUD ASSY, Exhaust exit RH (supersedes 159-315404-52)	1	4-308
	ATTACHING PARTS				
-59	AN509-10R10	.	SCREW	5	4-308
	AN509-10R11	.	SCREW	5	4-308
	---*---				
-60	159-315410-1	.	. SEAL ASSY, Engine upper side cowl exhaust shroud LH	1	4-308
-61	159-315410-2	.	. SEAL ASSY, Engine upper side cowl exhaust shroud RH	1	4-308
-62	159-31589-1	.	SEAL ASSY, LH side cowl lower close out shroud	1	4-308
-63	159-31589-2	.	SEAL ASSY, RH side cowl lower close out shroud	1	4-308
-64	159-31553	.	SEAL ASSY, Engine upper and fixed cowling compression joint	1	4-308
-65	159-31564-1	.	SEAL ASSY, Engine fixed cowl upper side air LH	1	4-308
-66	159-31564-2	.	SEAL ASSY, Engine fixed cowl upper side air RH	1	4-308
-67	174-31586-5	.	SEAL ASSY, Eng cowl eng air complete (supersedes 159-315173 which may be used interchangeably until stock is exhausted)	1	4-308
	159-315366-1	.	SPRING, Eng cowl stay rod stowage LH (super. by 171-31557-1)	1	4-308
-68	159-315366-2	.	SPRING, Eng cowl stay rod stowage RH (super. by 171-31557-2)	1	4-308
-69	AN960D10	.	WASHER	4	4-308

* 159-31504-1 and -2 superseded by 174-31504-1 and -2 together with 174-31503, 174-31506 and 174-31507.

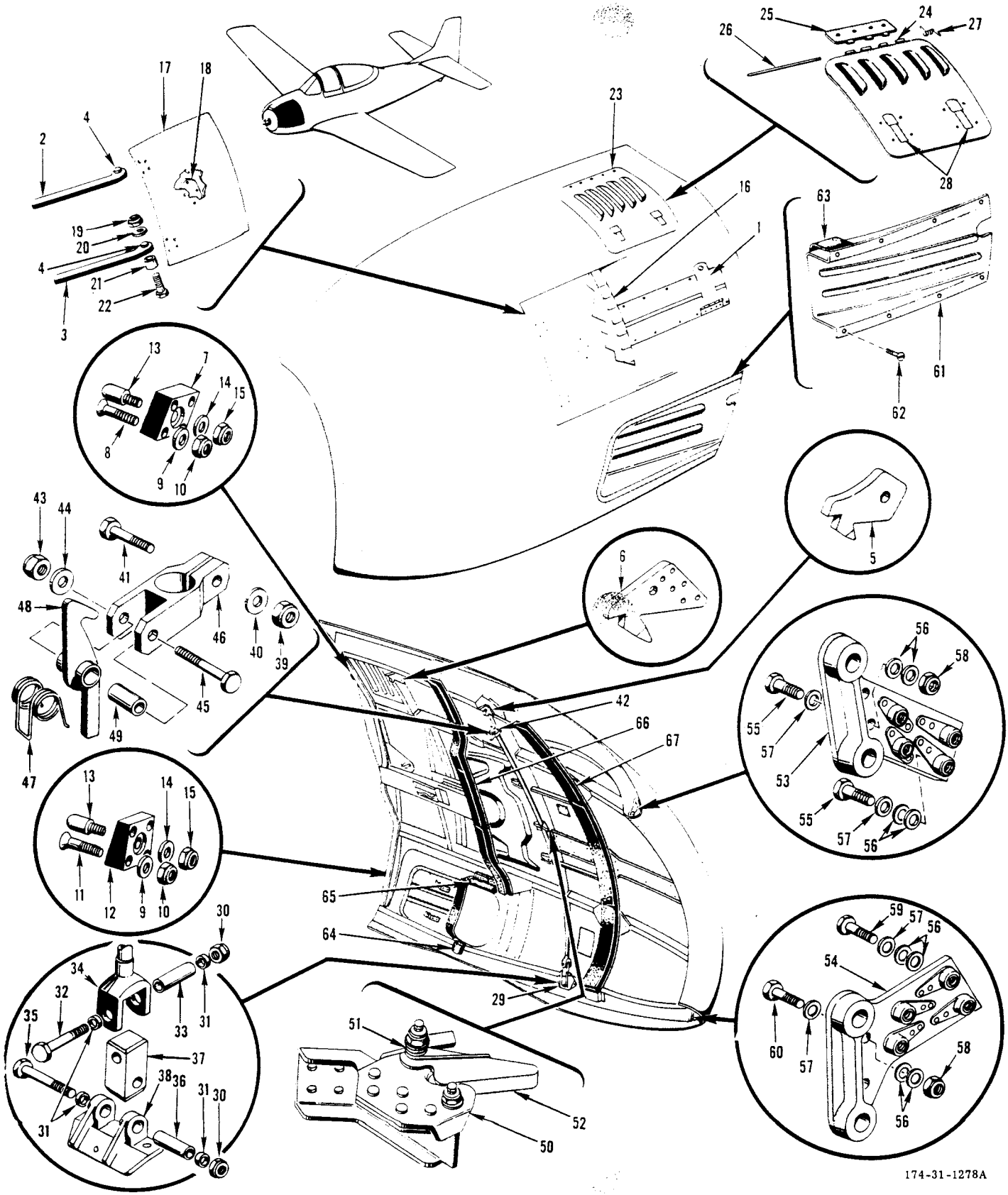


FIGURE 238 - UPPER LH ENGINE SIDE COWL ASSEMBLY

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
238	174-31504-1	*	COWL ASSY, Eng upper side LH (see figure 220 for next assy)	Ref	
-1	No Number		ENGINE SIDE COWL PANEL LATCH COVER AND LATCH ASSEMBLY (see figure 2-- for detail breakdown)	NP	
-2	159-315592		BAR ASSEMBLY, Engine side cowl upper flap hinge		
-3	159-315593		BAR ASSEMBLY, Engine side cowl lower flap hinge		
-4	-B19S6-009		BUSHING, Press fit plain (North American)		
-5	159-315604		HINGE, Engine side cowl forward		
-6	159-315423		HINGE, Engine side cowl aft		
-7	159-315600-3		BLOCK, Engine side cowl upper rear shear pin		
-8	AN509-10-18		SCREW, (magnetic inspected)		
-9	AN960D10		WASHER		
-10	AN365-1032		NUT		
-11	AN509-10-18		SCREW, (magnetic inspected)		
-12	159-315607-3		BLOCK, Engine side cowl lower rear shear pin		
-13	159-315121-3		PIN, Engine cowl alligning shear		
-14	AN960D10L		WASHER		
-15	AN365-32-		NUT		
-16	159-315609-1		DUCT ASSEMBLY, Engine side cowl cooling air outlet LH		
-17	159-315478		. SPRING, Engine cooling flap over travel		
-18	159-315174-51		DOOR ASSEMBLY, Engine cowl cooling air exit LH (supersedes 159-31517C-1)		
-19	159-315160		. FITTING, Engine cowl flap actuator attaching		
-20	AN365--		NUT		
-21	AN960D-16		WASHER		
-22	-B2184-010		BUSHING, Scuber (North American)		
-23	AN4-7		BOLT		
-24	159-315166		DOOR ASSY, Engine cowling oil fill access		
-25	159-315166-7		. HALF HINGE, Engine cowling oil filler access		
-26	159-315166-11		. HALF HINGE, Engine cowling oil filler access		
-27	AN263-2--20		. PIN		
-28	159-315211		. SPRING, Engine cowl oil filler access door (supersedes 159-31521)		
-29	AS100-2-151-116		. LATCH, Hartwell Aviation	2	
-30	174-31568		STAY ROD ASSY, Engine side cowl complete (supersedes 159-315--1 but is superseded by 174-31568-11)		
	174-31568-11		STAY ROD ASSY, Engine side cowl complete LH (supersedes 174-31568 but is not interchangeable)		
-31	AN364--26		. NUT		
-32	AN960D-16		. WASHER		
-33	AN4--14A		. BOLT		
-34	-B2184-108		. BUSHING, Press fit plain (North American)		
-35	174-31566		. STAY ROD ASSY, Engine side cowl		
-36	AN4--10A		. BOLT		
-37	-B19S6--106		. BUSHING, Press fit plain (North American)		
-38	174-31560		. FITTING, Engine side cowl stay rod		
-39	174-31561		. BRACKET, Engine side cowl stay rod		
-40	AN365--428		. NUT		
-41	AN960D416		. WASHER		
-42	AN4--7A		. BOLT		
-43	174-31582		. CLAMP ASSY, Eng side cowl stay rod (used on 174-31582-11)		
-44	AN365-1032		. . NUT		
-45	AN960D10		. . WASHER		
-46	AN3-10A		. . BOLT		
-47	174-31577		. . CLAMP, Engine cowl stay rod latch		
-48	174-31581		. . SPRING, Engine cowl stay rod latch		
-49	174-31578		. . LATCH ASSY, Engine cowl stay rod		
-50	-B21S3-014		. . BUSHING, Spacer (North American)		
-51	171-31557-1		BRACKET ASSEMBLY, Engine side cowl stay rod stowage LH (supersedes 159-315300-1)		
-52	171-31560		. SPRING, Engine cowling stay rod stowage bracket		
-53	171-31561		. LEVER, Engine cowling stay rod stowage bracket		
-54	174-31524-5		PLATE ASSY, Engine side cowl upper shear pin LH		
-55	174-31531-5		PLATE ASSY, Engine LH side cowl lower shear pin		
-56	AN4--7A		BOLT, (magnetic inspected)		
-57	AN960D416L		WASHER	2	
-58	AN960D416		WASHER		
-59	AN365-428		NUT		
-60	AN4--10A		BOLT, (magnetic inspected)	2	
-60	AN4-7A		BOLT, (magnetic inspected)		
-61	159-315424-1		SHROUD ASSY, Exhaust exit LH (supersedes 159-31540--1)		
	ATTACHING PARTS				
-62	AN509-10R10		SCREW		
	AN509-10R11		SCREW		
	---*---				
-63	159-315410-1		. SEAL ASSY, Engine upper side cowl exhaust shroud LH		
-64	159-31589-1		SEAL ASSY, LH side cowl lower close out shroud		
-65	159-31553		SEAL ASSY, Engine upper and fixed cowling compression joint		
-66	159-31584-1		SEAL ASSY, Engine fixed cowl upper side air LH		
-67	174-31586-5		SEAL ASSY, Engine cowl engine air complete (supersedes 159-315173 which may be used interchangeably until stock is exhausted)	1	

* 174-31504-1 and 174-31504-2 together with 174-31503, 174-31506 and 174-31507 supersedes 159-31504-1 and 159-31504-2.

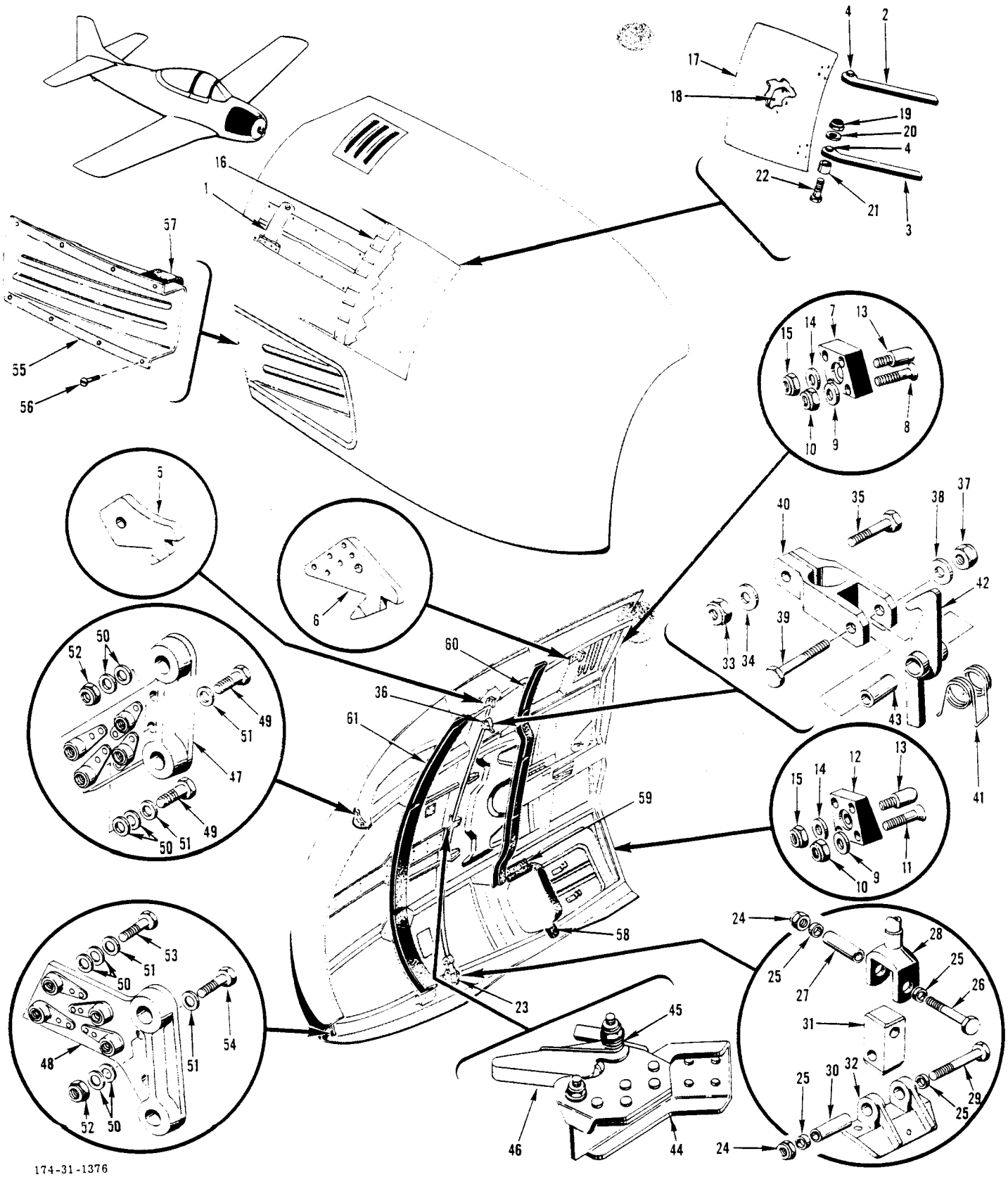


FIGURE 239 - UPPER RH ENGINE SIDE COWL ASSEMBLY

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
239	174-31504-2	*1 COWL ASSY, Engine upper side RH (see fig. 220 for next assy) . .	Ref	
-1	No Number	. ENGINE SIDE COWL PANEL LATCH COVER AND LATCH ASSEMBLY . . . . (see figure 244 for detail breakdown)	NP	
-2	159-315592	. BAR ASSEMBLY, Engine side cowl upper flap hinge	1	
-3	159-315593	. BAR ASSEMBLY, Engine side cowl lower flap hinge	1	
-4	-B19S6-009	. . BUSHING, Press fit plain (North American)	1	
-5	159-315604	. HINGE, Engine side cowl forward	1	
-6	159-315423	. HINGE, Engine side cowl aft	1	
-7	159-315606-3	. BLOCK, Engine side cowl upper rear shear pin	1	
-8	AN509-10-18	. SCREW, (magnetic inspected)	4	
-9	AN960D10	. WASHER	8	
-10	AN365-1032	. NUT	8	
-11	AN509-10-18	. SCREW, (magnetic inspected)	4	
-12	159-315607-3	. BLOCK, Engine side cowl lower rear shear pin	1	
-13	159-315121-3	. PIN, Engine cowl aligning shear	2	
-14	AN960D516L	. WASHER	2	
-15	AN365-524	. NUT	2	
	159-315608-2	. DUCT ASSEMBLY, Engine side cowl cooling air outlet RH	1	
-16	159-315405	. . SPRING, Engine cooling flap over travel	3	
-17	159-315176-52	. DOOR ASSEMBLY, Engine cowl cooling air exit RH . . . . . (supersedes 159-315176-2)	1	
-18	159-315160	. . FITTING, Engine cowl flap actuator attaching	1	
-19	AN310-4	. NUT	2	
-20	AN960D416	. WASHER	4	
-21	-B21S4-010	. BUSHING, Spacer (North American)	2	
-22	AN--7	. BOLT	2	
-23	174-31562	. STAY ROD ASSY, Eng side cowl complete (supersedes 159-315425. and is superseded by 174-31562-12)	1	
	174-31562-12	. STAY ROD ASSY, Eng side cowl complete RH (supersedes . . . . 174-31562 for future procurement)	1	
-24	AN365-428	. . NUT	2	
-25	AN960D416	. . WASHER	4	
-26	AN4-14A	. . BOLT	1	
-27	-B19S4-102	. . BUSHING, Press fit plain (North American)	1	
-28	174-31560	. . STAY ROD ASSY, Engine side cowl	1	
-29	AN--16A	. . BOLT	1	
-30	-B19S4-108	. . BUSHING, Press fit plain (North American)	1	
-31	174-31558	. . FITTING, Engine side cowl stay rod	1	
-32	174-31561	. . BRACKET, Engine side cowl stay rod	1	
-33	AN365-428	. . NUT	1	
-34	AN960D416	. . WASHER	1	
-35	AN--7A	. . BOLT	1	
-36	174-31582	. . CLAMP ASSY Engine side cowl stay rod (used on 174-31562-12)	1	
-37	AN365-1032	. . . NUT	1	
-38	AN960D10	. . . WASHER	1	
-39	AN3-10A	. . . BOLT	1	
-40	174-31577	. . . CLAMP, Engine cowl stay rod latch	1	
-41	174-31581	. . . SPRING, Engine cowl stay rod latch	1	
-42	174-31578	. . . LATCH ASSY, Engine cowl stay rod	1	
-43	-B21S3-014	. . . BUSHING, Spacer (North American)	1	
-44	174-31557-2	. BRACKET ASSEMBLY, Engine side cowl stay rod stowage RH . . . (supersedes 159-315366-2)	1	
-45	174-31560	. . SPRING, Engine cowling stay rod stowage bracket	1	
-46	174-31561	. . LEVER, Engine cowling stay rod stowage bracket	1	
-47	174-31524-6	. PLATE ASSY, Engine side cowl upper shear pin RH	1	
-48	174-31520-5	. PLATE ASSY, Engine RH side cowl lower shear pin	1	
-49	AN--7A	. BOLT, (magnetic inspected)	6	
-50	AN960D416L	. WASHER	24	
-51	AN960D416	. WASHER	12	
-52	AN365-428	. NUT	4	
-53	AN--11A	. BOLT, (magnetic inspected)	4	
-54	AN--10A	. BOLT, (magnetic inspected)	2	
-55	159-315424-2	. SHROUD ASSY, Exhaust exit RH (supersedes 159-315404-52) . . .	1	
	ATTACHING PARTS			
-56	AN509-10R10	. SCREW	5	
	AN509-10R11	. SCREW	5	
	---*---			
-57	159-315410-2	. . SEAL ASSY, Engine upper side cowl exhaust shroud RH . . .	1	
-58	159-31589-2	. SEAL ASSY, RH side cowl lower close out shroud	1	
-59	159-31553	. SEAL ASSY, Engine upper and fixed cowling compression joint .	1	
-60	159-31564-2	. SEAL ASSY, Engine fixed cowl upper side air RH	1	
-61	174-31586-5	. SEAL ASSY, Engine cowl engine air complete (supersedes . . . 159-315173 which may be used interchangeably until stock is exhausted)	1	

*1 174-31504-1 and 174-31504-2 together with 174-31503, 174-31506 and 174-31507 supersedes 159-31504-1 and 159-31504-2.

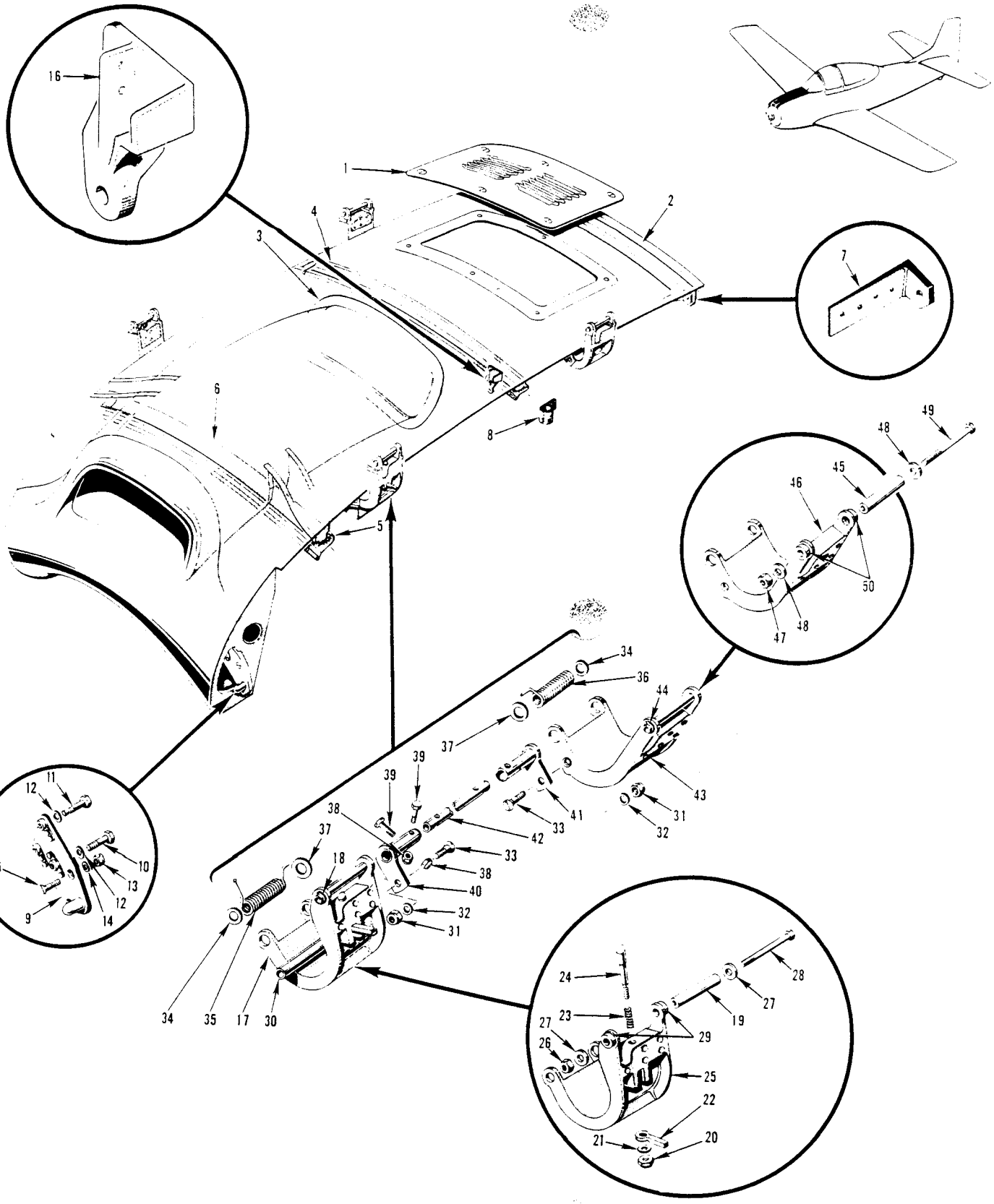


FIGURE 340 - UPPER ENGINE COWL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
240	159-31503	*	COWL ASSY, Upper engine (see figure 220 for next assy)	Ref	4-308
-1	159-315553	.	DOOR ASSY, Engine cowl carburetor air filter access	1	4-308
-2	159-31503-11	.	SEAL, Engine upper cowl	1	4-308
-3	159--2170	.	SEAL ASSY, Carburetor air duct	1	4-308
-4	159-315153	.	SEAL ASSY, Engine fixed cowl top center air	1	4-308
-5	174-31586-3	.	SEAL ASSY, Eng cowl eng air complete (supersedes 159-315133 which may be used interchangeably until stock is exhausted)	1	4-308
-6	159-31517-5	.	SEAL, Engine cowl station 13 1/2 air	1	4-308
-7	159-315665-1	.	BRACKET, Engine top center cowl aft attaching LH	1	4-308
	159-315665-2	.	BRACKET, Engine top center cowl aft attaching RH	1	4-308
-8	159-315662-1	.	SEAL ASSY, Engine upper cowl aft 25 side LH	1	4-308
	159-315662-2	.	SEAL ASSY, Engine upper cowl aft 25 side RH	1	4-308
-9	159-315632-1	.	PLATE ASSY, Engine upper cowl aligning LH (supersedes 159-315132-1)	1	4-308
	159-315632-2	.	PLATE ASSY, Engine upper cowl aligning RH (supersedes 159-315132-2)	1	4-308
		ATTACHING PARTS			
-10	AN--3A	.	BOLT, (magnetic inspection)	2	4-308
-11	AN--7A	.	BOLT, (magnetic inspection)	1	4-308
-12	AN960--616L	.	WASHER	3	4-308
-13	AN365--428	.	NUT	4	4-308
-14	AN960D-416	.	WASHER	4	4-308
-15	AN509--416-14	.	SCREW	4	4-308
		---*--			
-16	174-31570-1	.	BRACKET, Engine top cowl aft 2" attaching LH (supersedes 159-315179-1)	1	4-308
	174-31570-2	.	BRACKET, Engine top cowl aft 2" attaching RH (supersedes 159-315179-2)	1	4-308
-17	159-315603-1	.	HINGE ASSEMBLY, Engine upper cowl forward LH (superseded by 159-315603-11)	1	4-308
	159-315603-2	.	HINGE ASSEMBLY, Engine upper cowl forward RH (superseded by 159-315603-12)	1	4-308
	159-315603-11	.	HINGE ASSEMBLY, Engine upper cowl forward LH (supersedes 159-315603-1)	1	4-308
	159-315603-12	.	HINGE ASSEMBLY, Engine upper cowl forward RH (supersedes 159-315603-2)	1	4-308
-18	NAS51-37	. .	HINGE, External retainer (used on 159-315603-1 and -2)	2	4-308
-19	159-315147	. .	PIN, Engine top center cowl forward hinge lower	1	4-308
-20	AN364-1032	. .	NUT	1	4-308
-21	AN960C10L	. .	WASHER	1	4-308
-22	159-31513-3	. .	HANDLE, Eng top center cowl aft hinge latch (supersedes 159-31513-1)	1	4-308
-23	151-32040	. .	SPRING, Compression	1	4-308
-24	159-315144	. .	BOLT, Engine top center cowl forward hinge latch	1	4-308
-25	159-315601-1	. .	HINGE, Engine upper cowl forward LH	1	4-308
	159-315601-2	. .	HINGE, Engine upper cowl forward RH	1	4-308
-26	AN365-428	. .	NUT, (used on 159-315603-11 & -12)	1	4-308
-27	2W1AL17-28-64	. .	WASHER, Plain(North American) (used on 159-315603-11 & 159-315603-12)	2	4-308
-28	AN4-36A	. .	BOLT, (used on 159-315603-11 & -12)	1	4-308
-29	174-31537	. .	BUSHING, Engine top cowl hinge (used on 159-315603-11 & -12)	2	4-308
-30	159-315120	.	PIN, Engine upper cowl forward hinge stop	2	4-308
-31	AN365-428	.	NUT	4	4-308
-32	AN960-416	.	WASHER	4	4-308
-33	AN509--416-14	.	SCREW	4	4-308
-34	AN960C616L	.	WASHER	4	4-308
-35	159-315129-1	.	SPRING, Engine upper cowl hinge LH	2	4-308
-36	159-315129-2	.	SPRING, Engine upper cowl hinge RH	2	4-308
-37	AN960C816L	.	WASHER	4	4-308
-38	AN365-1032	.	NUT	8	4-308
-39	AN3-7A	.	BOLT	8	4-308
-40	159-315617-1	.	BUSHING ASSEMBLY, Engine upper cowl hinge LH	2	4-308
-41	159-315617-2	.	BUSHING ASSEMBLY, Engine upper cowl hinge RH	2	4-308
-42	159-315658	.	TUBE, Engine upper cowl hinge connecting	2	4-308
-43	159-315609-1	.	HINGE ASSEMBLY, Engine upper cowl aft LH (superseded by 159-315609-11)	1	4-308
	159-315609-2	.	HINGE ASSEMBLY, Engine upper cowl aft RH (superseded by 159-315609-12)	1	4-308
	159-315609-11	.	HINGE ASSY, Eng upper cowl aft LH (supersedes 159-315609-1)	1	4-308
	159-315609-12	.	HINGE ASSY, Eng upper cowl aft RH (supersedes 159-315609-2)	1	4-308
-44	NAS51-37	. .	HINGE, External retainer (used on 159-315609-1 & -2)	2	4-308
-45	159-315147	. .	PIN, Engine top center cowl forward hinge lower	1	4-308
-46	159-315602-1	. .	HINGE, Engine upper cowl aft LH	1	4-308
	159-315602-2	. .	HINGE, Engine upper cowl aft RH	1	4-308
-47	AN365-428	. .	NUT, (used on 159-315609-11 &-12)	1	4-308
-48	2W1AL17-28-64	. .	WASHER, Plain (North American) (used on 159-315609-11 & -12)	2	4-308
-49	AN4-36A	. .	BOLT, (used on 159-315609-11 & -12)	1	4-308
-50	174-31537	. .	BUSHING, Engine top cowl hinge (used on 159-315609-11 & -12)	2	4-308

* 159-31503 superseded by 174-31503 together with 174-31504-1 & -2, 174-31506 and 174-31507.

POWER PLANT AND ENGINE SECTION (Cont)

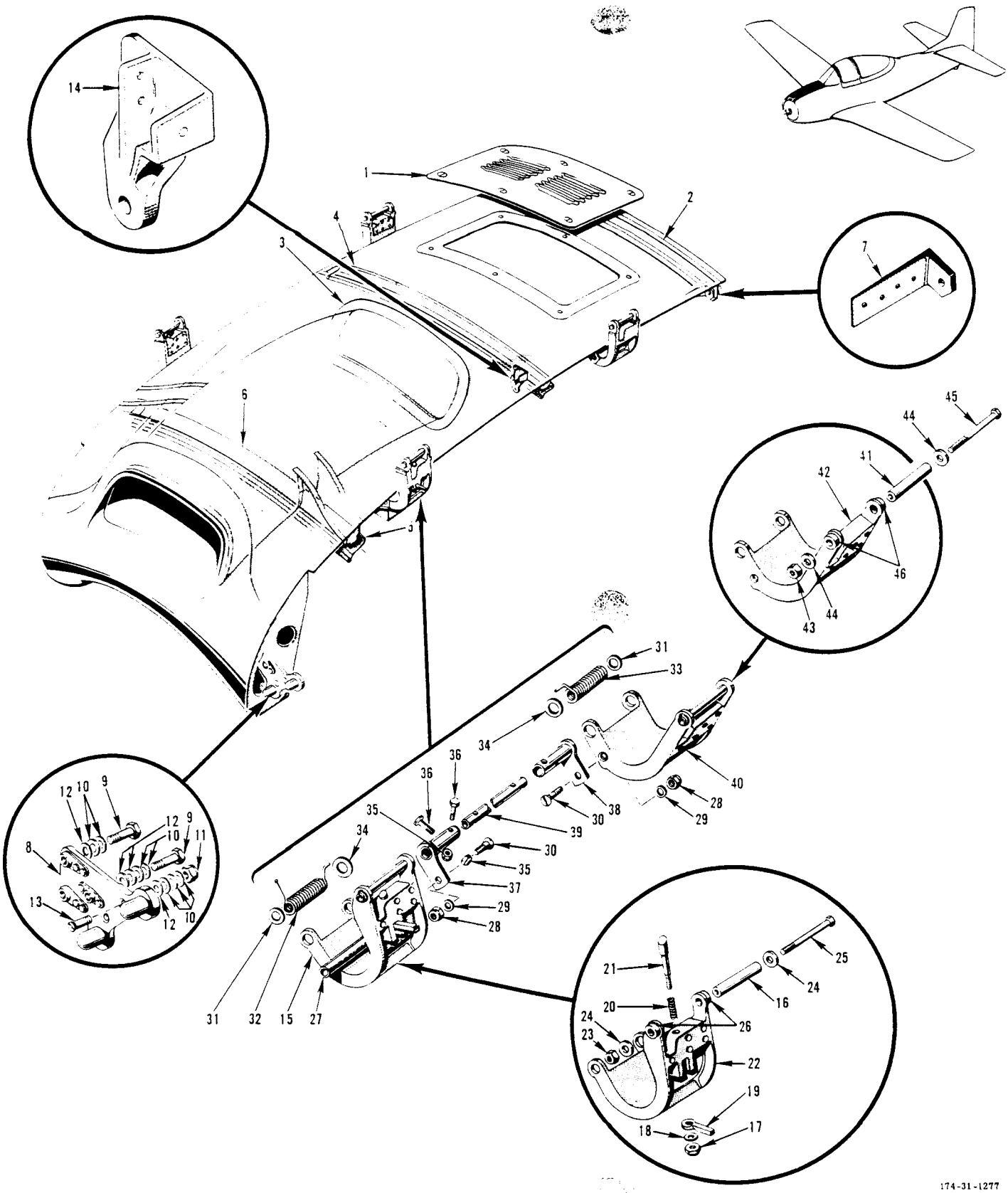


FIGURE 241 - ENGINE UPPER COWL ASSEMBLY

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
241	174-31503	*	COWL ASSEMBLY, Engine upper (see figure 220 for next assy)	Ref	
-1	159-315553		DOOR ASSY, Engine cowl carburetor air filter access	1	
-2	174-31503-11		SEAL, Engine upper cowl	1	
-3	159-42170		SEAL ASSY, Carburetor air duct	1	
-4	159-315153		SEAL ASSY, Engine fixed cowl top center air	1	
-5	174-31586-3		SEAL ASSY, Engine cowl engine air complete (supersedes 159-315138 which may be used interchangeably until stock is exhausted)	1	
-6	159-315617-5		SEAL, Engine cowl station 13 1/2 air	1	
-7	159-315684-1		BRACKET, Engine top center cowl aft attaching LH	1	
	159-315684-2		BRACKET, Engine top center cowl aft attaching RH	1	
-8	174-31526-1		PLATE ASSEMBLY, Engine upper cowl shear pin LH	1	
	174-31526-2		PLATE ASSEMBLY, Engine upper cowl shear pin RH	1	
	ATTACHING PARTS				
-9	AN4-7A		BOLT, (magnetic inspection)	6	
-10	AN960D416L		WASHER	20	
-11	AN365-428		NUT	4	
-12	AN960D416		WASHER	16	
-13	AN509-10R16		SCREW	4	
	---*---				
-14	174-31570-1		BRACKET, Engine top cowl sta 27 attaching LH (supersedes 159-315669-1)	1	
	174-31570-2		BRACKET, Engine top cowl sta 27 attaching RH (supersedes 159-315669-2)	1	
-15	159-315603-11		HINGE ASSEMBLY, Engine upper cowl forward LH (supersedes 159-315603-1)	1	
	159-315603-12		HINGE ASSEMBLY, Engine upper cowl forward RH (supersedes 159-315603-2)	1	
-16	159-315147		PIN, Engine top center cowl forward hinge lower	1	
-17	AN364-1032		NUT	1	
-18	AN960-1016		WASHER	1	
-19	159-315614-3		SHIELD, Eng top center cowl fwd hinge latch (supersedes 174-31514-3)	1	
-20	159-31514		SPRING, Compression type	1	
-21	AN4-14A		BOLT, Engine top center cowl forward hinge latch	1	
-22	174-31503-1		HINGE, Engine upper cowl forward LH	1	
	174-31503-2		HINGE, Engine upper cowl forward RH	1	
-23	AN365-428		NUT	4	
-24	MWL17-28-64		WASHER, Plain (North American)	4	
-25	AN4-36A		BOLT	2	
-26	174-31537		BUSHING, Engine top cowl hinge	2	
-27	159-315120		PIN, Engine upper cowl forward hinge stop	2	
-28	AN365-428		NUT	4	
-29	AN960-416		WASHER	4	
-30	AN509-10-14		SCREW	4	
-31	AN960D416L		WASHER	4	
-32	159-315129-1		SPRING, Engine cowling top center hinge LH	1	
-33	159-315129-2		SPRING, Engine cowling top center hinge RH	1	
-34	AN960D816L		WASHER	4	
-35	AN365-1032		NUT	4	
-36	AN3-7A		BOLT	4	
-37	159-315617-1		BUSHING ASSEMBLY, Engine upper cowl hinge LH	2	
-38	159-315617-2		BUSHING ASSEMBLY, Engine upper cowl hinge RH	2	
-39	159-315648		TUBE, Engine upper cowl hinge connecting	1	
-40	159-315609-11		HINGE ASSEMBLY, Engine upper cowl aft LH (supersedes 159-315609-1)	1	
	159-315609-12		HINGE ASSEMBLY, Engine upper cowl aft RH (supersedes 159-315609-2)	1	
-41	159-31514-7		PIN, Engine top center cowl forward hinge lower	1	
-42	159-315602-1		HINGE, Engine upper cowl aft LH	1	
	159-315602-2		HINGE, Engine upper cowl aft RH	1	
-43	AN365-428		NUT	4	
-44	MWL17-28-64		WASHER, Plain (North American)	4	
-45	AN4-36A		BOLT	2	
-46	174-31537		BUSHING, Engine top cowl hinge	2	

* 174-31503 together with 174-31504-1, 174-31504-2, 174-31506 and 174-31507 supersedes 159-31503.

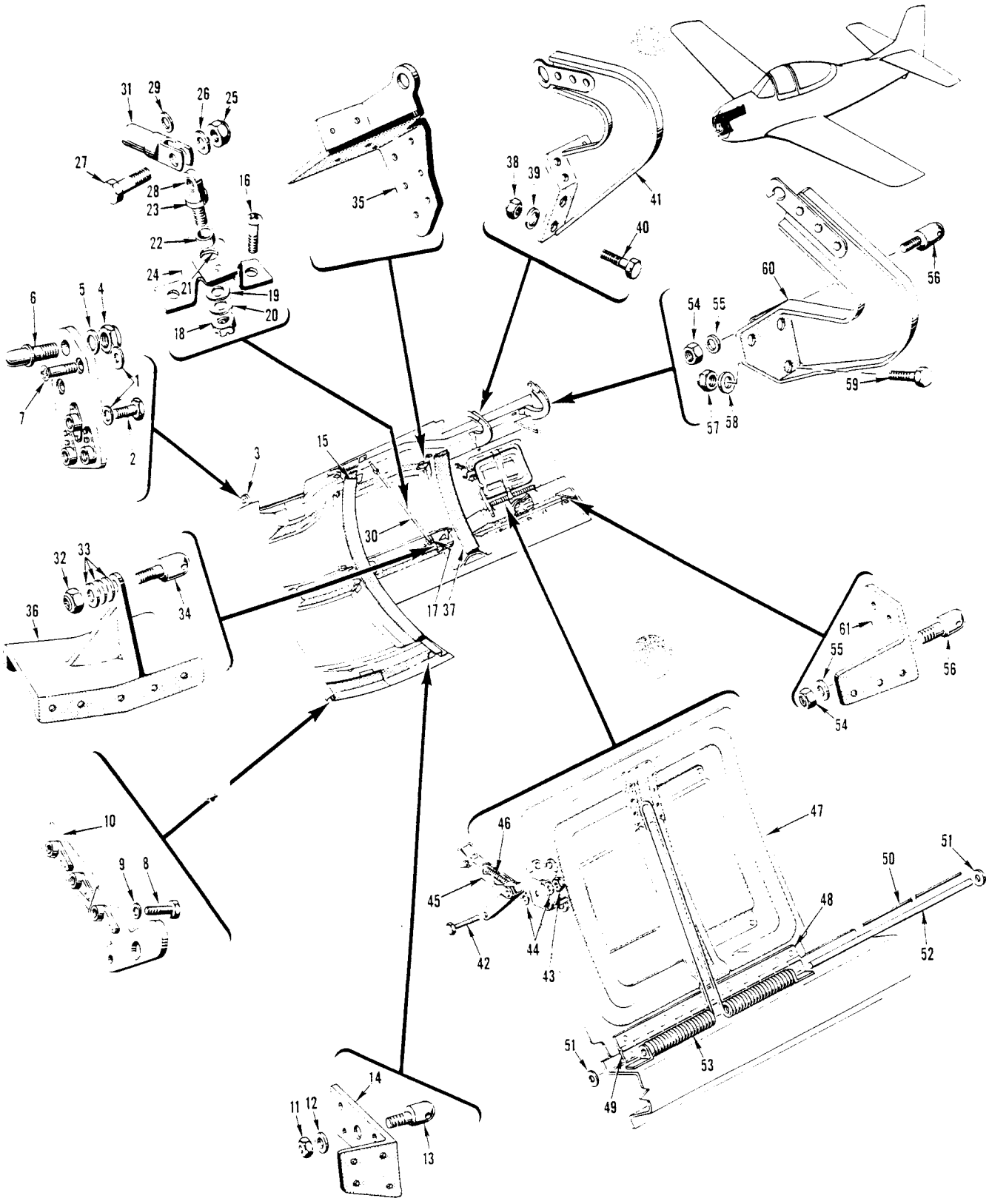


FIGURE 242 - ENGINE LOWER RIGHT HAND COWL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
242	159-31506	*	COWL ASSEMBLY, Engine lower right hand (see figure 220 for next assembly)	Ref	4-308
	No Number	.	ENGINE SIDE COWL PANEL LATCH COVER AND LATCH ASSEMBLY (see figure 24 for detail breakdown)	NP	4-308
-1	AN960-416	.	WASHER	6	4-308
-2	AN4-6A	.	BOLT, (magnetic inspected)	4	4-308
-3	159-315533	.	PLATE ASSEMBLY, Engine lower RH cowl leading edge upper shear pin (supersedes 159-315375)	1	4-308
-4	AN364-918	. .	NUT	1	4-308
-5	SWI-35-28-93	. .	WASHER, Plain (North American)	1	4-308
-6	159-315536	. .	PIN, Engine cowl aligning shear leading edge	1	4-308
-7	AN500-10-14	.	SCREW	4	4-308
-8	AN4-7A	.	BOLT, (magnetic inspected)	4	4-308
	AN4-10A	.	BOLT, (magnetic inspected)	4	4-308
-9	AN960C416L	.	WASHER	6	4-308
	AN960C416	.	WASHER	4	4-308
-10	171-31552	.	PLATE ASSY, Eng lower right hand cowl aligning (together with 171-31553 angle supersedes 159-315283 Plate Assy)	1	4-308
-11	AN365-632	.	NUT	1	--308
-12	AN960-516	.	WASHER	1	--308
-13	159-315121-3	.	PIN, Engine cowl aligning shear	1	4-308
-14	159-315566	.	CLIP, Engine lower right hand cowl lower intercostal to station 15.00 frame	1	4-308
-15	174-31586-9	.	SEAL ASSY, Eng cowl eng air complete supersedes 159-315238 which may be used interchangeably until stock is exhausted)	1	--308
-16	NAS221-9	.	SCREW, Brazier head Phillips recess alloy steel 10-32	2	--288
-17	159-31554-1	.	BRACKET ASSEMBLY, Engine lower RH cowl grade attaching (supersedes 159-315528)	1	--288
-18	AN365-428	. .	NUT	1	4-288
-19	SWI-35-28-10	. .	WASHER, Plain (North American)	1	--288
-20	AN960C416	. .	WASHER	1	--288
-21	159-31554-1-3	. .	SPACER, Engine cowl grade bracket assembly	1	--288
-22	-B2184-007	. .	BUSHING, Spacer (North American)	1	--288
-23	159-31554-1-7	. .	BOLT, Eye (altered from AN4-5A)	1	--288
-24	159-31554-1-5	. .	BRACKET, Engine cowl grade attaching	1	--288
-25	AN365-1032	.	NUT	1	--288
-26	AN960C10	.	WASHER	1	--288
-27	AN3-6A	.	BOLT	1	--288
-28	-B2183-005	.	BUSHING, Spacer (North American)	1	--288
-29	SWI-21-16-16	.	WASHER, Plain (North American)	1	--288
-30	159-315540	.	TUBE ASSEMBLY, Engine lower side cowl grade (supersedes 159-315283)	1	--288
-31	159-315421-5	. .	CLEVIS, Engine upper side cowl grade tube	1	--288
-32	AN365-524	.	NUT	1	--308
-33	AN960-516	.	WASHER	2	--308
-34	159-315121-3	.	PIN, Engine cowl aligning shear	2	--308
-35	159-315572	.	BRACKET, Lower right hand cowl upper shear pin cowl station 27 1/8	1	--308
-36	159-315570	.	BRACKET, Engine lower right hand cowl station 27 1/8 lower shear pin	1	4-308
-37	159-31563	.	SEAL ASSEMBLY, Engine fixed cowl lower right hand cowl station 28	1	--308
-38	AN365-428	.	NUT	4	--308
-39	AN960-416L	.	WASHER	4	--308
-40	AN4-6A	.	BOLT	4	--308
-41	159-315561	.	HINGE, Lower right hand engine cowl forward	1	--308
-42	AN3-10	.	BOLT	1	--308
-43	AN310-3	.	NUT	1	--308
-44	AN960C10L	.	WASHER	2	--308
-45	159-315106	.	BRACE ASSY, Eng lower right hand cowl fire exting door (altered from National Lock No. 61-9339)	1	--308
-46	159-315106-9	. .	SPRING, (altered from National Lock No. 61-9339)	1	4-308
-47	159-315113-5	.	DOOR ASSEMBLY, Engine cowl access compartment ventilation and fire extinguisher access	1	4-308
-48	159-315113-23	. .	HALF HINGE, Engine cowl access compartment ventilation and fire extinguisher access	1	--308
-49	159-315113-25	. .	HALF HINGE, Engine cowl access compartment ventilation and fire extinguisher access	1	--308
-50	AN253-2-838	. .	PIN	1	4-308
-51	AN960-6L	.	WASHER	2	4-308
-52	159-315503	.	ROD, Engine cowl lower right hand fire extinguisher door spring support	1	4-308
-53	159-315252	.	SPRING, Engine lower right hand cowl fire extinguisher door	1	--308
-54	AN365-524	.	NUT	2	4-308
-55	AN960-516	.	WASHER	2	4-308
-56	159-315121-3	.	PIN, Engine cowl aligning shear	2	4-308
-57	AN365-428	.	NUT	3	4-308
-58	AN960-416L	.	WASHER	3	4-308
-59	AN4-4A	.	BOLT	2	4-308
	AN4-6A	.	BOLT	1	4-308
-60	159-315562	.	HINGE, Engine lower right hand cowl aft	1	4-308
-61	159-315653-3	.	CLIP, Engine lower right hand cowl aft frame shear pin	1	4-308

* 159-31506 superseded by 174-31506 together with 174-31504-1, 174-31504-2, 174-31503 & 174-31507.

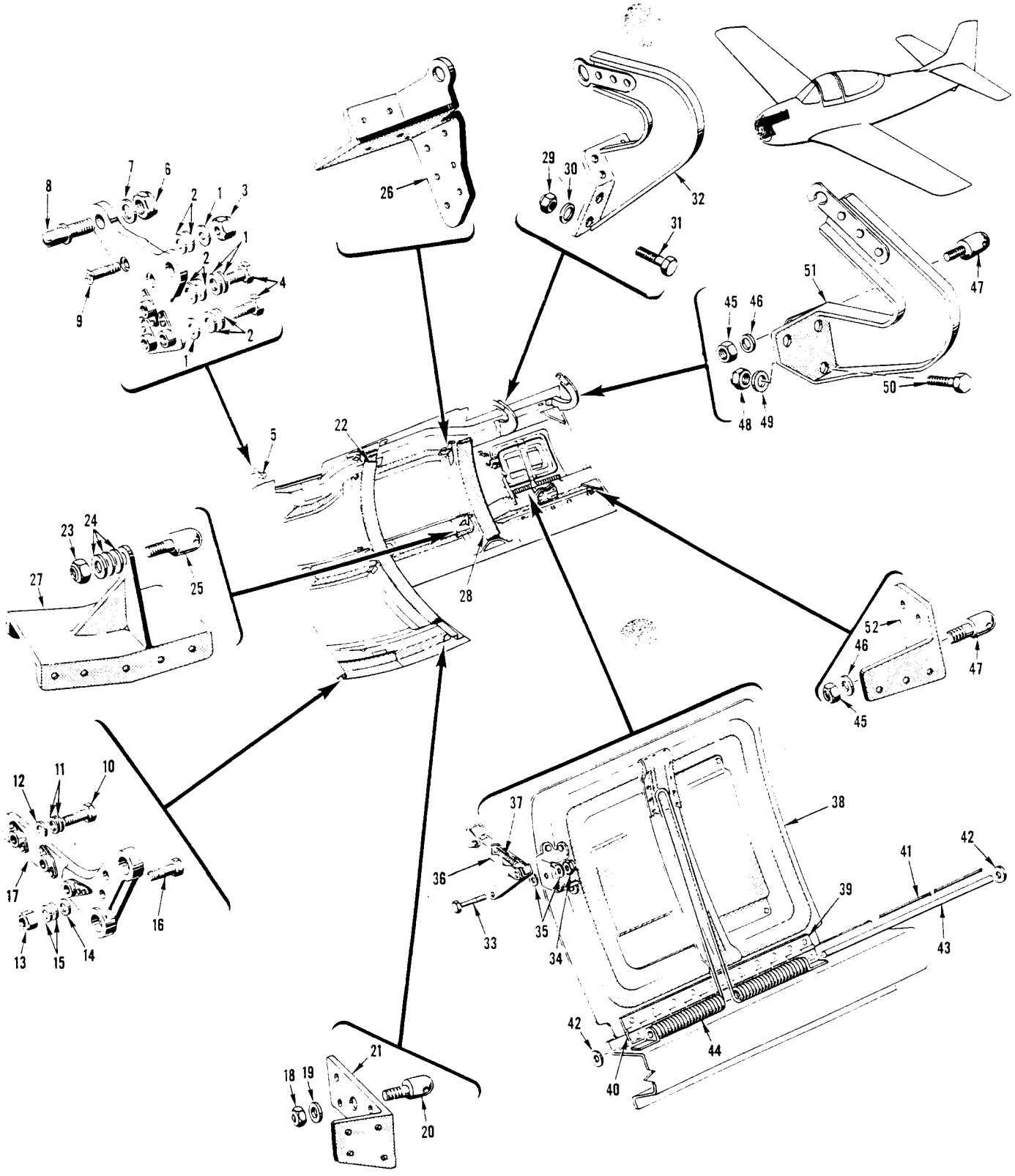


FIGURE 243 - ENGINE LOWER RIGHT HAND COWL ASSEMBLY

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
243	174-31506	*	COWL ASSEMBLY, Engine lower right hand (see figure 220 for next assembly)	Ref	
	No Number		. ENGINE SIDE COWL PANEL LATCH COVER AND LATCH ASSEMBLY (see figure 244 for detail breakdown)	NP	
-1	AN960D416		. WASHER	16	
-2	AN960D416L		. WASHER	10	
-3	AN365-428		. NUT	8	
-4	AN4-7A		. BOLT, (magnetic indented)	3	
-5	174-31521		. PLATE ASSEMBLY, Engine lower RH cowl upper shear pin	1	
-6	AN364-918		. . NUT	1	
-7	AN960-10-28-33		. . WASHER, Plain (Worth American)	1	
-8	159-315536		. . PIN, Engine cowl aligning shear retaining ridge	1	
-9	AN509-10-16		. SCREW	1	
-10	AN4-11A		. BOLT, (magnetic indented)	1	
-11	AN4-11A		. BOLT, (magnetic indented)	1	
-12	AN960D416L		. WASHER	10	
-13	AN960D516		. WASHER	6	
-14	AN365-428		. NUT	6	
-15	AN960D416		. WASHER	4	
-16	AN960D416L		. WASHER	4	
-17	AN4-11A		. BOLT	4	
-18	174-31530-5		. PLATE ASSEMBLY, Eng lower right hand cowl lower shear pin	1	
-19	AN365-524		. NUT	1	
-20	AN960D516		. WASHER	1	
-21	159-315121-3		. PIN, Engine cowl aligning shear	1	
-22	159-315565		. CLIP, Engine lower right hand cowl lower intercostal to station 17.194 frame	1	
-23	174-31566-9		. SEAL ASSY, Engine cowl engine air complete (supersedes 159-315537 which may be used interchangeably until stock is exhausted)	1	
-24	AN365-524		. NUT	1	
-25	AN960D516		. WASHER	1	
-26	159-315121-3		. PIN, Engine cowl aligning shear	1	
-27	159-315572		. BRACKET, Lower right hand cowl upper shear pin cowl station 17 1/2	1	
-28	159-315570		. BRACKET, Engine lower right hand cowl station 17 1/2 lower shear pin	1	
-29	159-31563		. SEAL ASSEMBLY, Engine fixed cowl lower right hand seal station 18	1	
-30	AN365-428		. NUT	4	
-31	AN960D416L		. WASHER	4	
-32	AN4-8A		. BOLT	4	
-33	159-315561		. HINGE, Lower right hand engine cowl forward	1	
-34	AN4-10		. BOLT	2	
-35	AN365-10		. NUT	2	
-36	AN960-10L		. WASHER	2	
-37	159-315106		. BRACE ASSEMBLY, Engine lower right hand cowl fire extinguisher door (altered from National Lock No. 61-4339)	1	
-38	159-315106-9		. . SPRING, (altered from National Lock No. 61-4339)	1	
-39	159-315113-5		. DOOR ASSEMBLY, Engine cowl access compartment ventilation and fire extinguisher access	1	
-40	159-315113-23		. . HALF HINGE, Engine cowl access compartment ventilation and fire extinguisher access		
-41	159-315113-25		. . HALF HINGE, Engine cowl access compartment ventilation and fire extinguisher access	1	
-42	AN253-2-838		. . PIN	1	
-43	AN960D6L		. WASHER	2	
-44	159-315503		. ROD, Engine cowl lower right hand fire extinguisher door spring support	1	
-45	159-315252		. SPRING, Engine lower right hand cowl fire extinguisher door	1	
-46	AN365-524		. NUT	2	
-47	AN960D516		. WASHER	2	
-48	159-315121-3		. PIN, Engine cowl aligning shear	2	
-49	AN365-428		. NUT	3	
-50	AN960D416L		. WASHER	2	
-51	AN4-5A		. BOLT	2	
	AN4-8A		. BOLT		
-52	159-315562		. HINGE, Engine lower right hand cowl aft	1	
-53	159-315653		. CLIP, Engine lower right hand cowl aft frame shear pin	1	

*174-31506 together with 174-31504-1, 174-31504-2, 174-31503 and 174-31507 supersedes 159-31506.

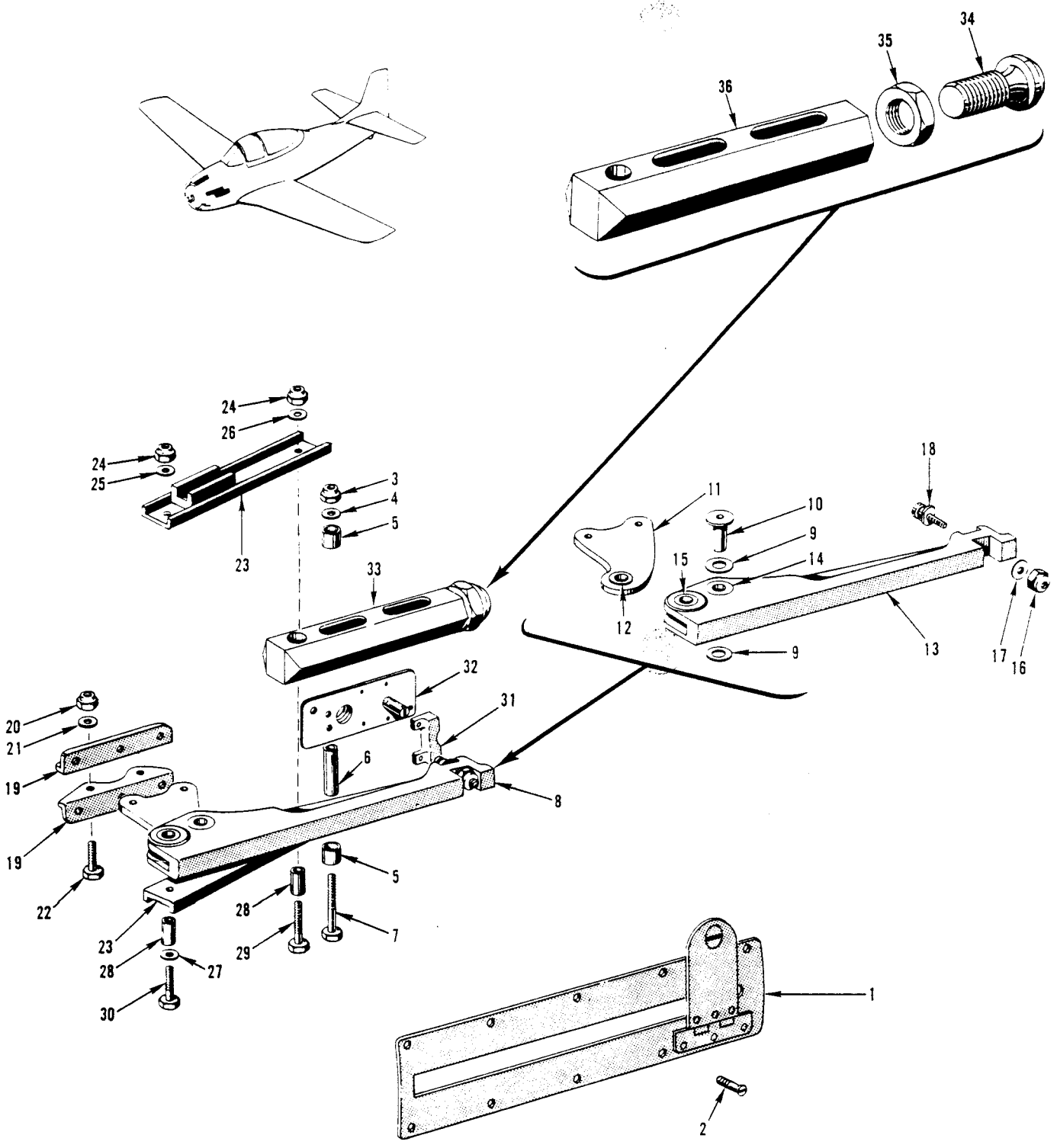


FIGURE 244 - ENGINE SIDE COWL PANEL LATCH COVER AND LATCH ASSEMBLY

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 * NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
244	No Number	ENGINE SIDE COWL PANEL LATCH COVER AND LATCH ASSEMBLY . . . . . (see Figures 237, 238, 239, 242 and 243 for next assy)	NP	
-1	159-315220-1	. DOOR ASSEMBLY, Engine side cowl panel latch cover LH . . . . (used on 159-31504-1 and 174-31504-1)	1	
	159-315220-2	. DOOR ASSEMBLY, Engine side cowl panel latch cover RH . . . . (used on 159-31504-2 and 174-31504-2)	1	
	159-315221	. DOOR ASSEMBLY, Engine lower cowl panel latch cover . . . . . (used on 159-31506 and 174-31506)	1	
	ATTACHING PARTS			
-2	AN509-10R8	. SCREW (Used on 159-31504)	10	
	AN509-10R8	. SCREW (Used on 159-31506 and 174-31506)	8	
	AN509-10R9	. SCREW (Used on 159-31506 and 174-31506)	2	
	AN509-10R8	. SCREW (Used on 174-31504)	9	
	MS3221-8	. SCREW (Used on 174-31504)	1	
	159-315316	. . LOCK ASSEMBLY, Engine cowl latch handle.	1	
-3	AN365-1032	. NUT	2	
-4	AN960D10L	. WASHER (Used on 159-31504)	2	4-308
	AN960D10L	. WASHER (Used on 174-31504)	2	
	AN960-10L	. WASHER (Used on 159-31506 and 174-31506)	4	
-5	-311988-021	. BUSHING, Press fit plain (North American)	2	
-6	-311103-204	. BUSHING, Spacer (North American)	2	
	AN3-25A	. BOLT (Used on 159-31504 and 174-31504)	2	
	AN3-25A	. BOLT (Used on 159-31506 and 174-31506)	1	
	AN3-26A	. BOLT (Used on 159-31506 and 174-31506)	1	
-8	159-315216	. HANDLE ASSY, Eng cowl latch (superseded by 151-315216-11) . .	1	4-308
	159-315216-11	. HANDLE ASSY, Eng cowl latch (supersedes 159-315216)	1	
-9	AN960-616L	. . WASHER	2	
-10	159-315234	. . PIN, Engine cowl panel cam locking	1	
-11	159-315207	. . PLATE ASSY, Eng cowl latch pivot (superseded by. . . . . 159-315207-11)	1	4-308
	159-315207-11	. . PLATE ASSY, Eng cowl latch pivot (supersedes 159-315207) .	1	
-12	-311988-109	. . . BUSHING, Press fit plain (North American)	1	
-13	159-315217-5	. . HANDLE ASSEMBLY, Engine cowl latch	1	
-14	-311988-004	. . . BUSHING, Press fit plain (North American)	2	
-15	-311988-006	. . . BUSHING, Press fit plain (North American)	1	
-16	AN364--8S	. . NUT	1	
-17	AN960--416L	. . WASHER	1	
-18	MS21	. . PIN, HEDOIT (Adams Rite Mfg. Co.) (supersedes . . . . . 159-315-05-5)	1	
-19	159-315206	. ANGLE, Engine cowl hinge plate attaching.	2	
-20	AN365--428	. NUT	2	
-21	AN960D416L	. WASHER (Used on 159-31504	2	4-308
	AN960D416L	. WASHER (Used on 174-31504	2	
	AN960-416L	. WASHER (Used on 159-31506)	2	4-308
	AN960D416L	. WASHER (Used on 174-31506)	2	
-22	AN4-7A	. BOLT (Used on 159-31504)	3	
	AN4-7A	. BOLT (Magnetic inspected) (Used on 159-31506, 174-31506 and . 174-3150-	2	
	AN4-6A	. BOLT (Magnetic inspected) (Used on 159-31506 and 174-31506 . and 174-3150-	6	
-23	159-315213	. CHANNEL ASSEMBLY, Engine cowl latch link.	2	
-24	AN365--428	. NUT	3	
-25	AN960-416L	. WASHER.	1	
	AN960D416L	. WASHER (Used on 174-31506 and 174-31504).	1	
-26	AN960D416L	. WASHER (Used on 159-31504)	1	4-308
	AN960-416L	. WASHER (Used on 159-31506)	1	4-308
	AN960D416L	. WASHER (Used on 174-31506)	2	
	AN960D416L	. WASHER (Used on 174-31504)	1	
-27	AN960-416L	. WASHER (Used on 159-31504)	1	4-308
	AN960D416L	. WASHER (Used on 174-31504)	1	
-28	-311134-027	. BUSHING, Spacer (North American).	2	
-29	AN4-13A	. BOLT (Magnetic inspected)(Used on 159-31504, 159-31506, and . 174-31506)	1	
	AN4-14A	. BOLT (Magnetic inspected) (Used on 174-31504)	1	
-30	AN4-14A	. BOLT (Magnetic inspected) (Used on 159-31504 & 174-31504) . .	1	
	AN4-13A	. BOLT (Magnetic inspected) (Used on 159-31506 & 174-31506) . .	1	
	159-315702	. LOCK ASSEMBLY, Engine cowl latch handle LH and RH . . . . . (supersedes 159-315205)	1	
-31	159-315701	. . GUARD, Engine cowl latch handle lock	1	
-32	159-315702-3	. . LOCK, Eng cowl latch handle (altered from Adams Rite W320)	1	
-33	159-315371	. ROD ASSEMBLY, Engine cowl latch LH	1	
-34	159-315373	. . FITTING, Engine cowl latch rod end	1	
-35	159-315377	. . NUT, Engine cowl latch	1	
-36	159-315372	. . ROD, Engine cowl latch	1	

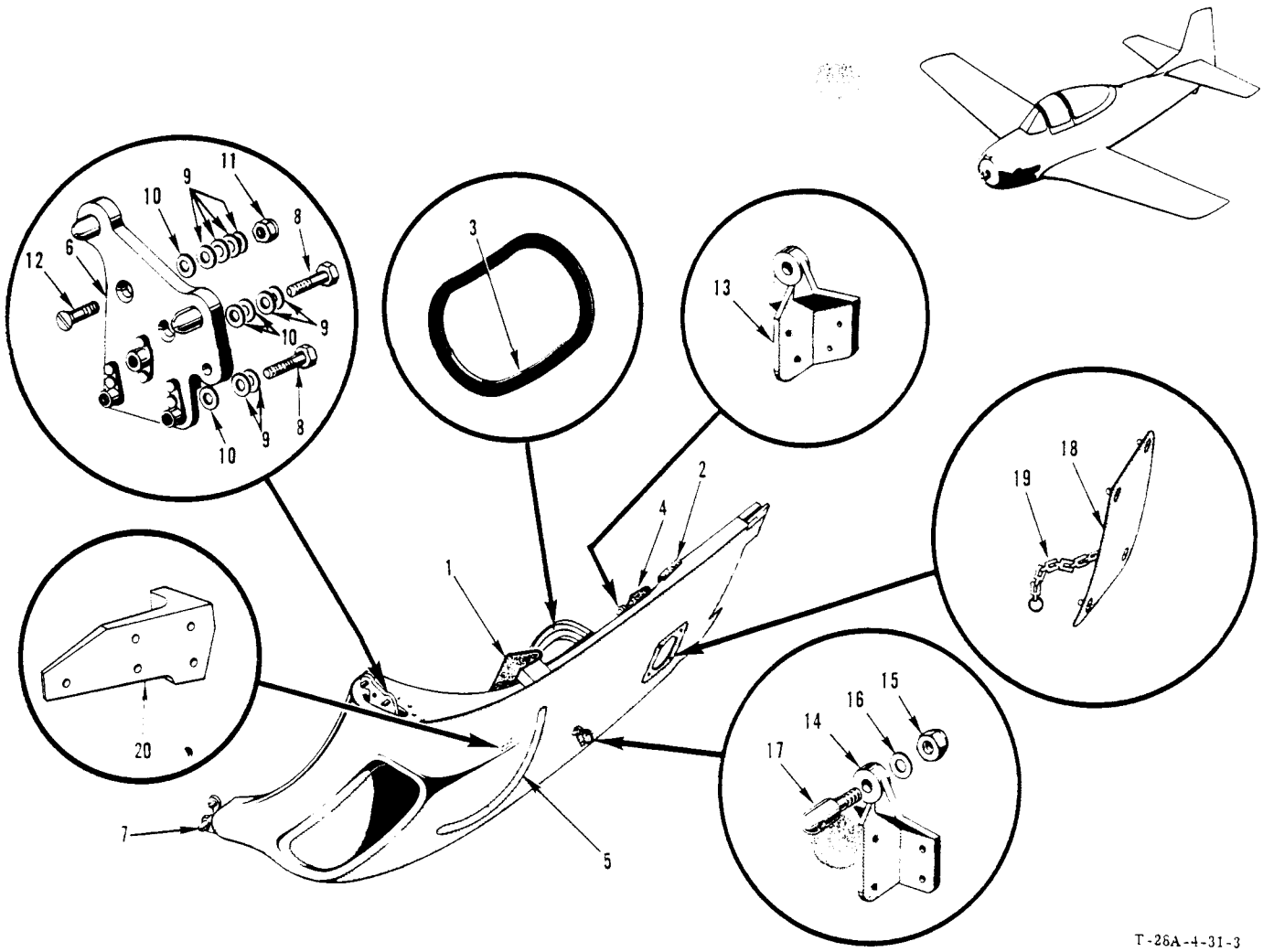


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FIGURE 245 - ENGINE LOWER LEFT HAND COWL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
245	174-31507	*	COWL ASSY, Engine lower left hand (see Fig. 220 for next assy) .	Ref	
-1	174-31506-7		. SEAL ASSY, Eng cowl eng air complete (supersedes 159-315262 which may be used interchangeably until stock is exhausted)	1	
-2	174-31507-27		. SEAL, Engine lower LH cowl (altered from Johns Manville No. MX3496) . . .	1	
-3	159-47097		. SEAL ASSEMBLY, Oil cooler forward duct.	1	
-4	159-315265		. SEAL ASSEMBLY, Engine fixed cowl lower LH air cowl sta 28 . .	1	
-5	159-31517-3		. SEAL, Engine cowl station 13 1/2 air.	1	
-6	174-31534		. PLATE ASSEMBLY, Engine lower LH cowl upper shear pin.	1	
-7	174-31529		. PLATE ASSEMBLY, Engine lower LH cowl lower shear pin.	1	
	ATTACHING PARTS				
-8	AN4-7A		. BOLT (Magnetic inspected)	7	
-9	AN960D416L		. WASHER.	32	
-10	AN960D416		. WASHER.	10	
-11	AN365-428		. NUT	8	
-12	AN509-416R16		. SCREW	4	
	---*---				
-13	159-31538		. BRACKET, Engine lower LH cowl sta 37 1/8 upper attaching. . .	1	
-14	159-31537		. BRACKET, Engine lower LH cowl sta 37 1/8 lower attaching. . .	1	
-15	AN365-524		. NUT	1	
-16	AN960-516		. WASHER.	1	
-17	159-315121-3		. PIN, Engine cowl aligning shear	1	
-18	159-47317		. DOOR ASSEMBLY, Oil cooler drain access	1	
-19	9C1-3-6		. . CHAIN, No. 1 safety (North American)	1	
■ -20	159-31527		. FITTING, Engine lower LH cowl torque box attaching	1	

* 174-31507 together with 174-31504-1, 174-31504-2, 174-31506 and 174-31503 supersedes 159-31507.

POWER PLANT AND ENGINE SECTION OIL SYSTEM

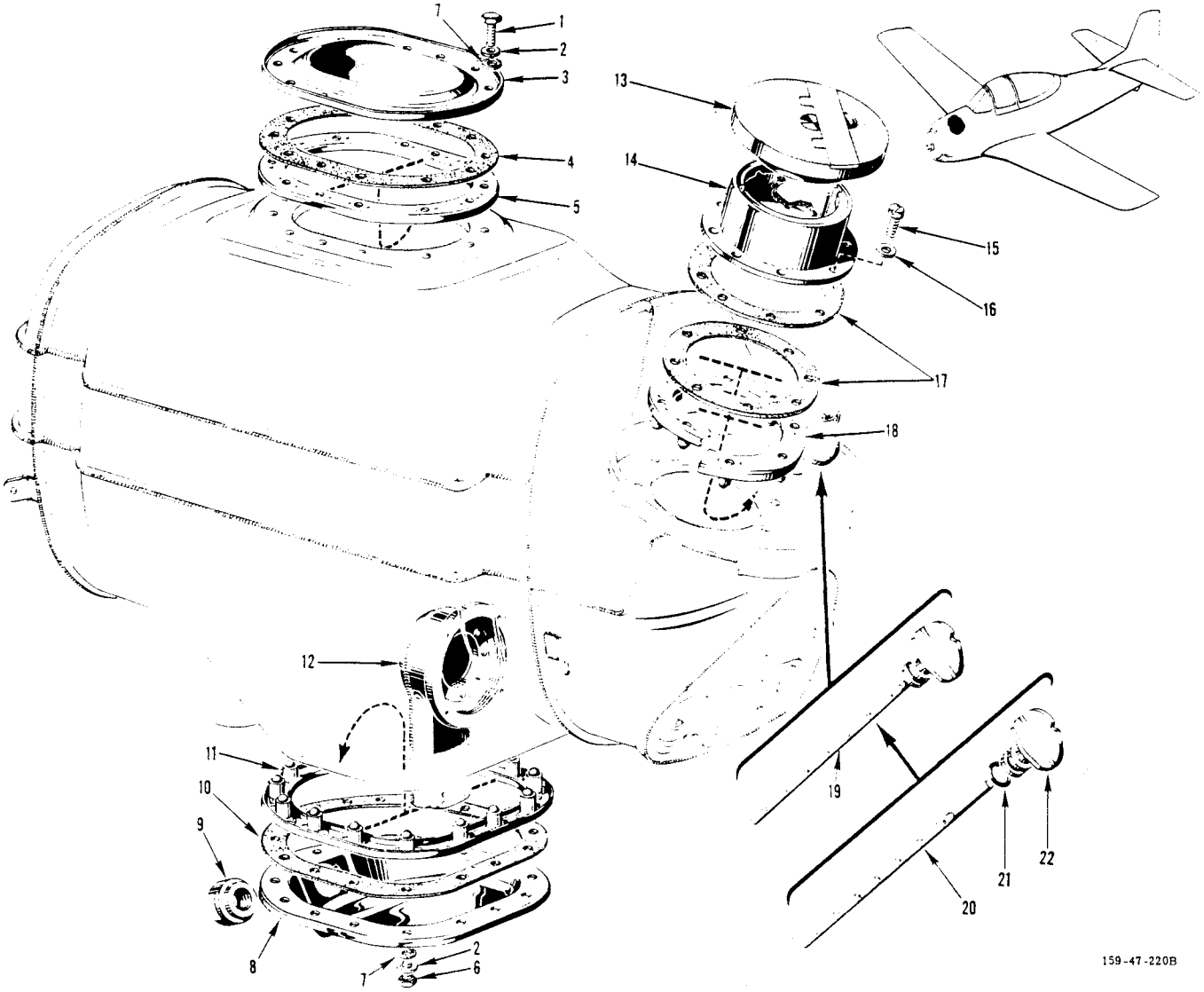

FIGURE 246 - OIL TANK ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
246	159-47003	*		TANK ASSEMBLY, Complete oil (see figure 247 for next assembly) .	Ref	4-393
	159-47003-15	*		TANK ASSEMBLY, Complete oil (see figure 247 for next assembly) .	Ref	
-1	AN3H6A			. BOLT.	12	
-2	AN960D10L			. WASHER.	27	
-3	171-47077			. COVER, Oil tank top (supersedes 159-47077-11)	1	
-4	159-47080			. GASKET, Oil tank top cover.	2	
-5	159-47079			. RING ASSEMBLY, Oil tank top cover locking	1	
-6	AN3H6A			. BOLT.	15	
-7	2			. LOCK-O-SEAL (Frankland C. Wolfe)	15	
-8	159-47064-11			. SUMP ASSY, Oil tank (supersedes 159-47064)(used on 159-47003)	1	
-9	159-47066			. . FITTING, Oil tank sump oil drain	1	
	174-47064			. SUMP, Oil sump (used on 159-47003-15)	1	
-10	159-47070			. GASKET, Oil tank sump	2	
-11	159-47065			. RING ASSEMBLY, Oil tank sump locking.	1	
-12	159-47059			. TUBE ASSEMBLY, Oil tank swivel complete	1	
	40B1718			. CAP AND ADAPTER ASSY, Fuel tank filler removable type	1	
-13	39B5435			. . CAP ASSEMBLY, Fuel tank filler	1	
-14	39B5294			. . ADAPTER ASSEMBLY, Fuel tank filler cap	1	
-15	AN501A10-10			. SCREW	8	
-16	AN960D10			. WASHER.	8	
-17	120-48135			. GASKET, Fuel wing center section filler adapter	2	
-18	144-47055			. RING ASSEMBLY, Oil tank filler cap adapter locking.	1	
-19	159-47048			. ROD ASSEMBLY, Oil lever indicator	1	
-20	159-47050			. . ROD, Oil level indicator	1	
-21	AN6227-10			. . PACKING.	1	
-22	117-47126			. . CAP, Oil level indicator rod	1	

* 159-47003-15 together with Koehler 7851-3, AN902-8D and AN902-8 supercedes 159-47003, Koehler 7851-3 and 171-47083 for future procurement. 159-47003, Koehler 7851-3 & 171-47083 OK to use on airplanes noted.

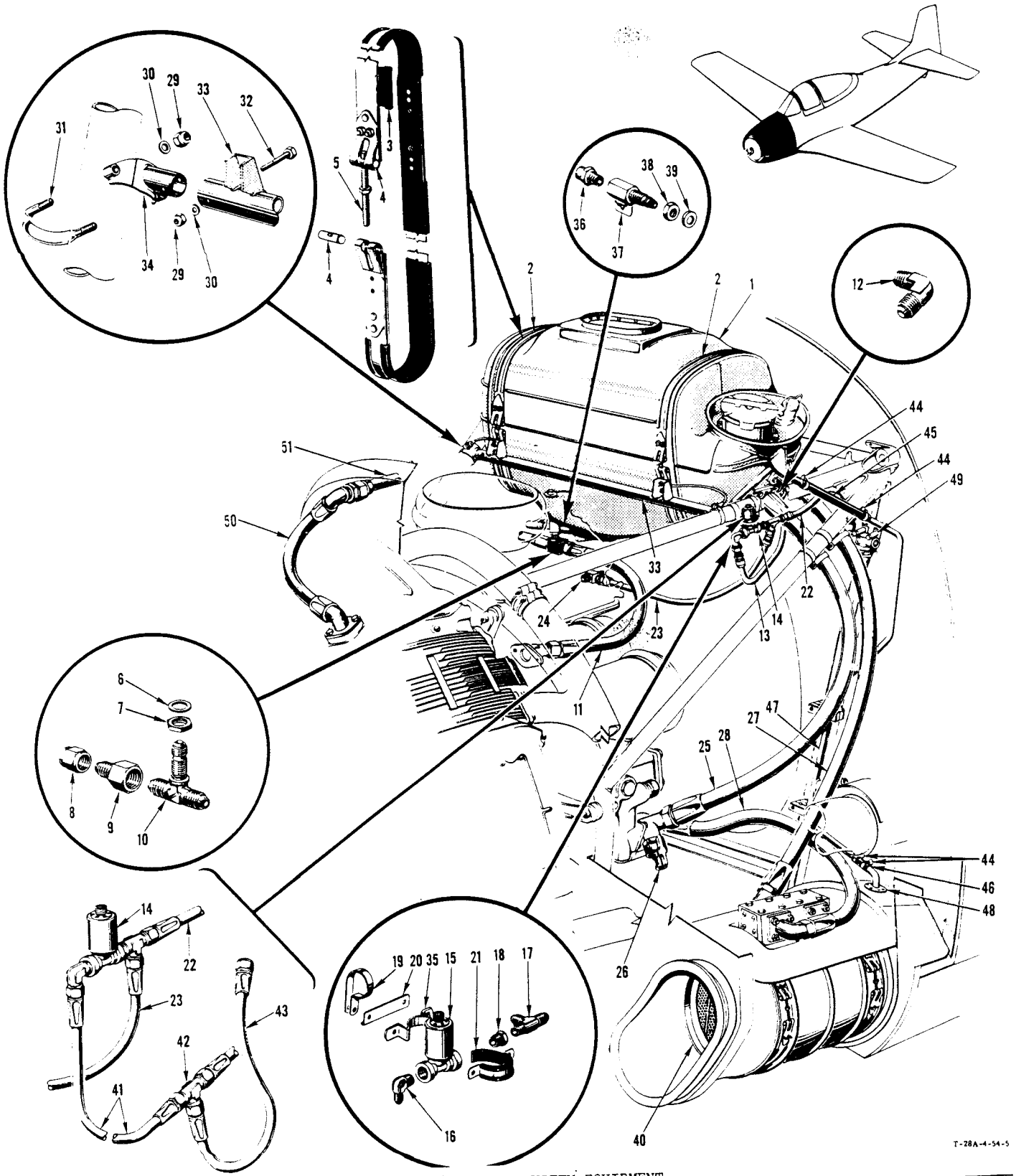

FIGURE 247 - OIL SYSTEM EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
247		OIL SYSTEM EQUIPMENT		
	159-47040	. OIL SYSTEM EQUIPMENT INSTALLATION (See fig. 220 for next assy)	NP	
	159-47003 *1	. . TANK ASSY, Complete oil (see figure 246)	1	4-393
-1	159-47003-15*1,*4	. . TANK ASSEMBLY, Complete oil (see figure 246)	1	
	159-47903-15 *4	. . TANK ASSEMBLY, OIL COMPLETE SPARE	1	

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POWER PLANT AND ENGINE SECTION OIL SYSTEM (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
247-2	159-47102	. .	STRAP ASSEMBLY, Oil tank retaining	2	
-3	159-47102-7	. . .	PAD, Oil tank strap pad	2	
-4	MAS25--R	. . .	TRUNNION, Tank strap threaded	1	
	MAS25--L	. . .	TRUNNION, Tank strap threaded	1	
-5	MAS27---22	. . .	TURNBUCKLE, Tank strap	1	
-6	AN902-16	. .	GASKET	1	
-7	AN924-16D	. .	NUT	1	
-8	AN929-8	. .	CAP	1	
-9	AN894D16-8	. .	BUSHING	1	
-10	AN894-16D	. .	TEE	1	
-11	AN6286--16D16	. .	HOSE ASSEMBLY	1	
-12	AN822--	. .	ELBOW	1	
-13	AN6264---12 *5	. .	HOSE ASSEMBLY	1	
-14	159--47071	. .	VALVE ASSEMBLY, Oil dilution solenoid	1	
-15	AN-143-1	. . .	VALVE ASSY, Oil dilution solenoid (Koenler Aircraft Part No. K11350 & United Aircraft Part No. 03100 may be used)	1	
-16	AN822---4	. . .	ELBOW	1	
-17	AN826-4	. . .	TEE	1	
-18	AN912-1	. . .	BUSHING	1	
-19	AN7-2D22	. .	CLAMP (Aluminum)	2	
-20	159--47039	. .	SUPPORT, Oil dilution solenoid	1	
-21	780-21-2-10	. .	CLIP (Adel Precision)	1	
-22	AN6264---9	. .	HOSE ASSEMBLY	1	
-23	AN6264---24 1-2	. .	HOSE ASSEMBLY	1	
-24	159--47033	. .	TEE ASSY, Fuel pressure and oil dilution restrictor	1	
-25	3550-20-32	. .	HOSE ASSEMBLY, Oil tank to engine (Aeroquip)	1	
	AN4171-20	. .	GASKET	1	
-26	29802	. .	DRAINCOCK, Oil cooler (Koenler Aircraft) (supersedes Koenler Aircraft No. K10010B)	1	
	AN900-16	. .	GASKET	1	
-27	3554-20-36	. .	HOSE ASSY, Oil cooler to oil tank (Aeroquip)	1	
	AN4171-20	. .	GASKET	1	
	AN4172-32	. .	GASKET	1	
-28	360-9571-16-23 7-8	. .	HOSE ASSEMBLY, Engine to oil cooler (Aeroquip) (supersedes 360-9571-20-23 1-2)	1	
	AN4172-32	. .	GASKET	1	
-29	AN365--428	. .	NUT	6	
-30	AN960--16	. .	WASHER	8	
-31	159--47141	. .	"U" BOLT, Oil tank support tube front	2	
-32	AN--13A	. .	BOLT	2	
-33	159--47063	. .	SUPPORT ASSY, Oil tank front (supersedes 159--47105)	1	
-34	159--47101	. .	FITTING ASSY, Oil tank sup. front (supersedes 159--47105)	2	
-35	159--47055	. .	BRACKET, Oil dilution solenoid valve mounting	1	61-
-36	171--47083 *1,*2,*3.	. .	ADAPTER, Oil tank sump drain	1	
-37	7851-3 *1,*2,*3.	. .	VALVE, Fuel drain (Koenler Aircraft)	1	
	8101-3 *1,*2,*4.	. .	VALVE, Fuel drain (Koenler Aircraft)	1	
-38	AN924-8D *1,*2,*4.	. .	NUT	1	
-39	AN902-8 *1,*2,*4.	. .	GASKET	1	
-40	E51799-1	. .	COOLER ASSY, Oil (Clifford) (supersedes E48462 & E51776 and E51799)	1	
	51798	. . .	COOLER, Oil round aluminum (Clifford) (AN4125-11) (supersedes E51710 and E51777)(E51798 may be sub)	1	
	46800-19	. . .	VALVE ASSY, Oil temp (Clifford) (AN4103-3) (Clifford No. B46800-19, 46800-19P or B46800-19P may be sub)	1	
-41	MS28741-4-0180 *6.	.	HOSE ASSEMBLY	1	
-42	AN824-4 *6.	.	TEE	1	
-43	MS28741-4-0080-1 *6.	.	HOSE ASSEMBLY	1	
	159-47031	.	OIL SYSTEM EQUIPMENT INSTALLATION, Fus section (see figure 51 for next assembly)	NP	
-44	AN737-30	. .	CLAMP	4	
-45	3H2-8-30	. .	HOSE (North American)	1	
-46	3H2-8-16	. .	HOSE (North American)	1	
-47	159-47802-15	. .	LINE ASSEMBLY, Oil tank scupper drain	1	
-48	159-47030		TUBE ASSEMBLY, Oil tank scupper drain (see figure 66)	Ref	
-49	450-0		PURIFIER (see figure 191)	Ref	
-50	159-47098		HOSE ASSY, Engine breather to fixed cowling (see fig. 248)	Ref	
-51	159-47801-21		LINE ASSY, Fixed cowling to inverted flight oil tank fwd section (see figure 248)	Ref	

*1 159-47003-15 together with Koehler 8101-3, AN924-8D and AN902-8 supersede 159-47003, Koehler 7851-3 and 171-47083 for future procurement. 159-47003, Koehler 7851-3 & 171-47083 OK to use on airplanes noted.
*2 Koehler 8101-3 together with AN924-8D, AN902-8 and 174-47064 supersedes Koehler 7851-3, 171-47083 and 159-47064-11.
*3 171-47083 and Koehler 7851-3 together supersede Koehler K9000S3A.
*4 159-47003-15 together with Koehler 8101-3, AN924-8D and AN902-8 make up spare tank 159-47903-15.
*5 Not used on aircraft modified per T.O. 1T-28A-534.
*6 Used on all aircraft modified per T.O. 1T-28A-534.

POWER PLANT AND ENGINE SECTION OIL SYSTEM (Cont)

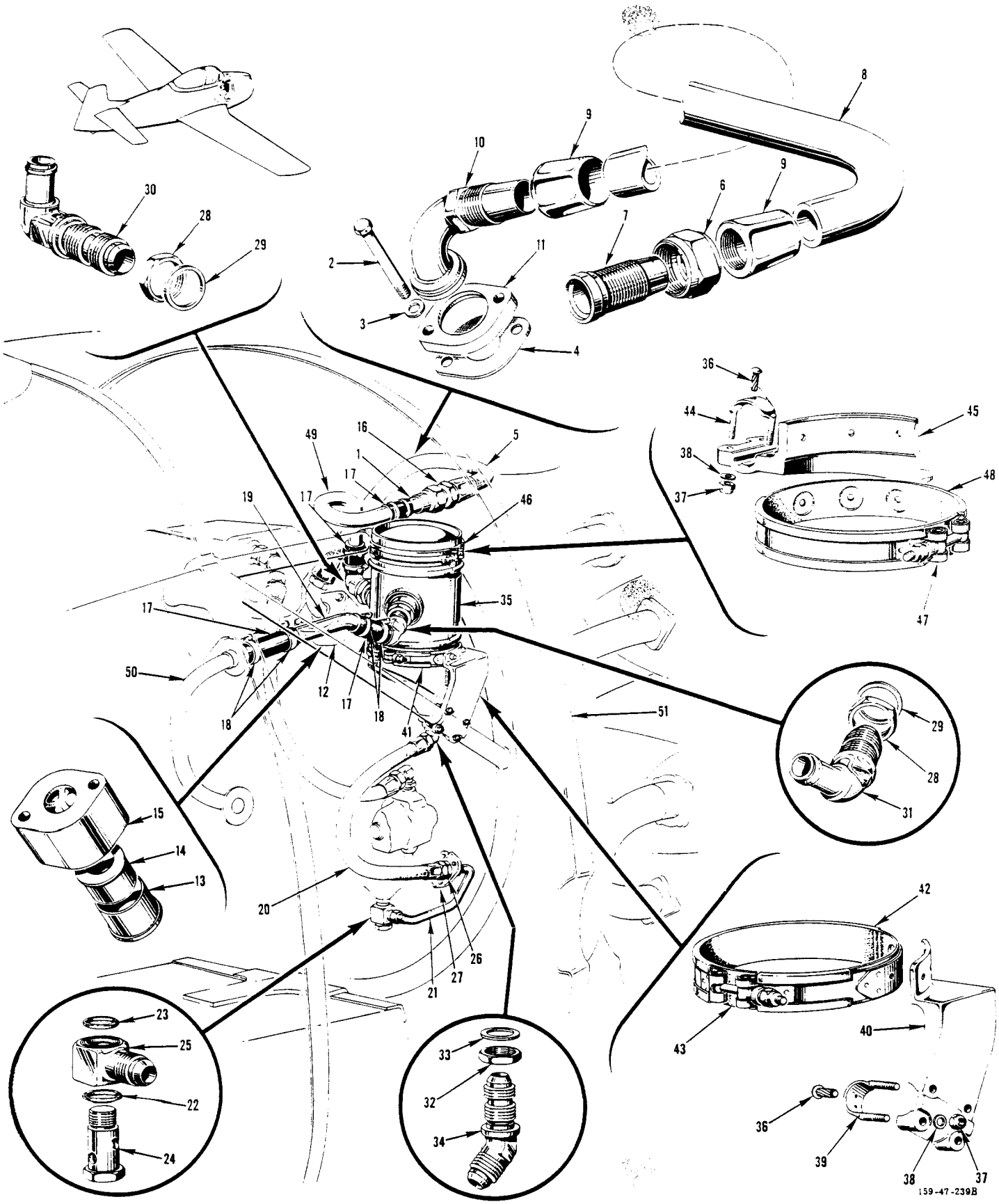


FIGURE 248 - INVERTED FLIGHT ENGINE BREATHER EQUIPMENT

POWER PLANT AND ENGINE SECTION OIL SYSTEM (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
248	159--7016	ENGINE BREATHER EQUIPMENT INSTALLATION, Inverted flight. see figure 220 for next assembly	NP	
-1	159--7301-21	. LINE ASSEMBLY, Fixed cowling to inverted flight oil tank forward section	1	
-2	AN6H3-4	. BOLT.	2	
-3	AN960D616	. WASHER.	2	
-4	159--7146	. GASKET, Inverted flight engine breather check valve	1	
-5	159--7098	. HOSE ASSEMBLY, Engine breather to fixed cowling	1	
-6	290-165	. . NUT (Aeroquip)	1	
-7	351-165	. . NIPPLE (Aeroquip).	1	
-8	5111-10	. . HOSE (Aeroquip).	1	
-9	211-165	. . SOCKET (Aeroquip	1	
-10	351D-16	. . NIPPLE (Aeroquip).	1	
-11	159--7099	. . FLANGE, Engine crank case breather	1	
-12	159--7143	. VALVE ASSEMBLY, Engine breather inverted flight	1	
-13	159--7145	. . BUSHING, Engine breather inverted flight valve	1	
-14	159--7144	. . SLEEVE, Engine breather inverted flight valve	1	
-15	159--7142	. . BODY, Engine inverted flight breather valve.	1	
-16	AN931-10L	. WASHER	1	
-17	AN960-10L116	. WASHER.	1	
-18	AN931-10L	. WASHER	1	
-19	3HE-16-16	. HOSE (North American)	1	
-20	AN737W45	. CLAMP	1	
-21	159--7301-27	. LINE, Inverted flight oil tank to firewall.	1	
-22	MS20011-12-20	. HOSE ASSEMBLY (Aeroquip	1	
-23	159--7022	. LINE ASSEMBLY, Inverted flight oil tank drain forward section	1	
-24	AN960-10	. GASKET	1	
-25	AN960-10	. GASKET	1	
-26	159--7161	. BOLT, Inverted flight oil tank drain connection	1	
-27	AN774-10	. ELBOW	1	
-28	AN931-10	. WASHER	1	
-29	AN924-10	. NUT	1	
-30	AN960-10L	. WASHER.	1	
-31	159--7162	. BRACKET, Inverted flight oil tank drain line support.	1	
-32	AN924-10L	. NUT	1	
-33	AN960-10L	. WASHER	1	
-34	AN774-10	. ELBOW	1	
-35	159--7155	. TANK ASSEMBLY, Inverted flight oil.	1	
	ATTACHING PARTS			
-36	AN535---6	. SCREW (For staking U-Bolts to engine mount)	4	
-37	AN365--428	. NUT	4	
-38	AN960D416L	. WASHER.	4	
-39	5B6-22	. BOLT, U (North American	2	
-40	159--7159	. SUPPORT ASSEMBLY, Inverted flight oil tank lower.	1	
-41	159--7160	. . SUPPORT, Inverted flight oil tank lower.	1	
-42	159--7169	. . STRAP ASSEMBLY, Engine inverted flight breather oil. tank lower	1	
-42	159--7169-3	. . . PAD, Engine inverted flight breather oil tank upper strap (altered from AN8031-8-19 1/2)	1	
-43	159-47169-5	. . . STRAP, Engine inverted flight breather oil tank upper(altered from Marman No. 15175)	1	
-44	5B6-22	. BOLT, U (North American)	2	
	159-47156	. SUPPORT ASSEMBLY, Inverted flight oil tank upper.	1	
-45	159-47157	. . SUPPORT, Inverted flight oil tank upper.	1	
-46	159--7168	. . STRAP ASSEMBLY, Engine inverted flight breather oil. tank upper	1	
-47	159--7168-3	. . . STRAP, Engine inverted flight breather oil tank upper (altered from Marman No. 15175)	1	
-48	159-47168-5	. . . PAD, Engine inverted flight breather oil tank upper strap (altered from AN8031-8-19 1/2)	1	
	---*---			
-49	159-47301-25	. LINE, Fixed cowling to inverted flight oil tank rear. section	1	
-50	159-47090	TUBE ASSEMBLY, Engine crankcase breather line fuselage station 49 1/2 (see figure 81)	Ref	
-51	159-31547-300	COWLING ASSEMBLY, Engine fixed (see figure 225).	Ref	

POWER PLANT AND ENGINE SECTION HYDRAULICS

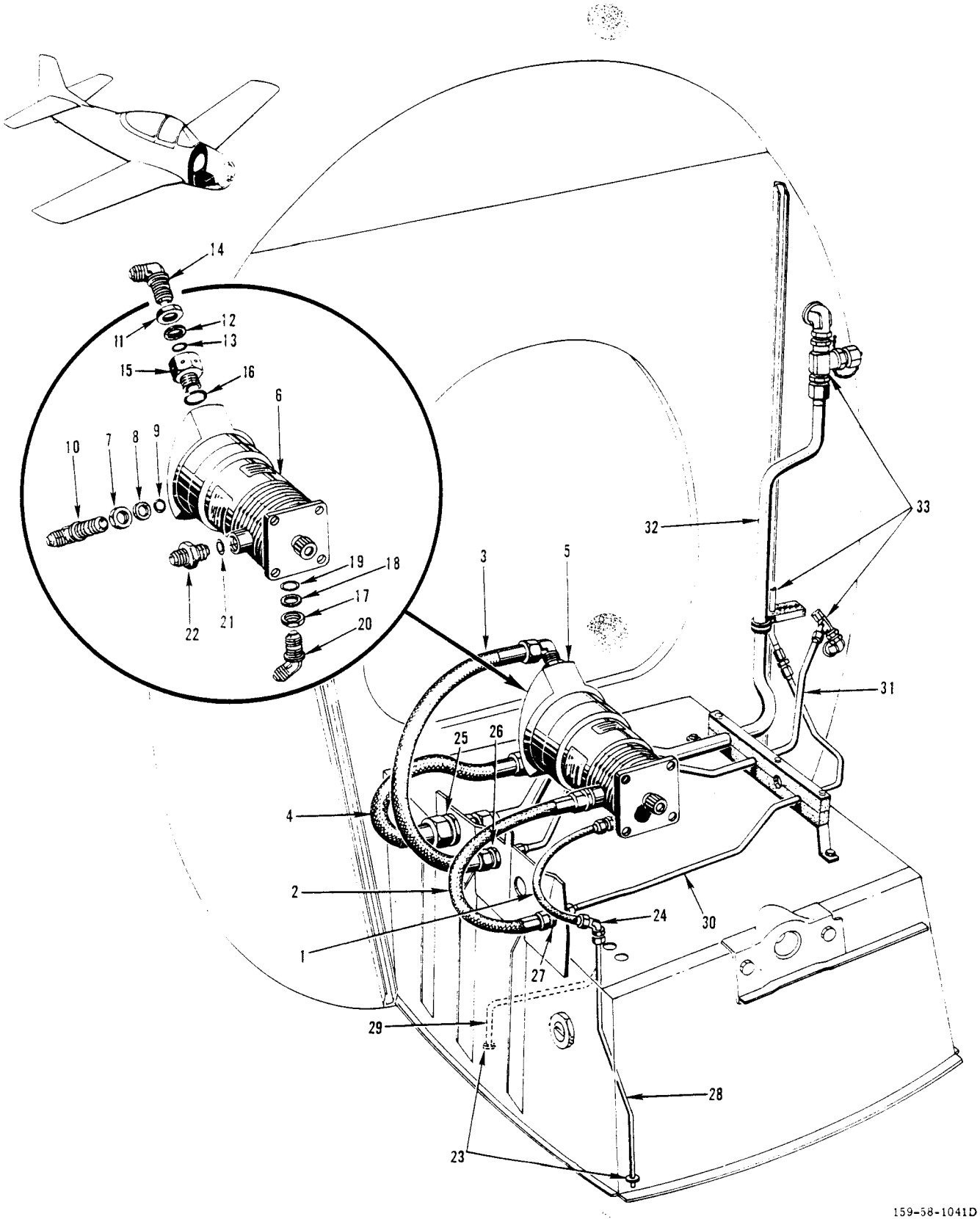


FIGURE 249 - HYDRAULIC POWER SYSTEM FIREWALL FORWARD

POWER PLANT AND ENGINE SECTION HYDRAULICS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
249		HYDRAULIC POWER SYSTEM FIREWALL FORWARD		
	159-58007	. HYDRAULIC EQUIPMENT INSTALLATION, Eng section sta 28 1/2 . . to 49 1/2 (see figure 220 for next assembly)	NP	1-268
	159-58007-3	. HYDRAULIC EQUIPMENT INSTALLATION, Eng section sta 28 1/2 . . to 49 1/2 (see figure 220 for next assembly)	NP	269-
-1	AN6271-4-13 1-2	. . HOSE ASSEMBLY	1	
-2	AN6271-4-19	. . HOSE ASSEMBLY	1	
-3	AN6271-8-30	. . HOSE ASSEMBLY	1	
-4	AN6271-12-31	. . HOSE ASSEMBLY	1	
-5	171-58060	. . PUMP ASSEMBLY, Hydraulic system complete engine driven . (supersedes 159-58060)	1	
	159-58060	. . PUMP ASSEMBLY, Hydraulic engine system complete engine . driven (superseded by 171-58060)	1	--268
-6	67WB200	. . . PUMP ASSY, Hyd eng driven (New York Airbrake)	1	*
-6	67WF200	. . . PUMP ASSY, Hyd eng driven (New York Airbrake)	1	**
-7	AN6289D12	. . . NUT	1	
-8	AN6291-12	. . . RING	1	
-9	AN6290-12	. . . GASKET	1	
-10	AN833-12D	. . . ELBOW	1	
-11	AN6289D8	. . . NUT	1	
-12	AN6291-8	. . . RING	1	
-13	AN6290-8	. . . GASKET	1	
-14	AN833-8D	. . . ELBOW	1	
-15	AN833-151D	. . . BUSHING	1	*
-16	AN6290-10	. . . GASKET	1	*
-17	AN6289D4	. . . NUT	1	*
-18	AN6291--	. . . RING	1	*
-19	AN6290--	. . . GASKET	1	*
-20	AN833--D	. . . ELBOW	1	*
	AN822--D	. . . ELBOW	1	**
-21	AN6290-6	. . . GASKET	1	*
	AN6290--	. . . GASKET	1	**
-22	AN[illegible]-6D	. . . REDUCER	1	*
	AN[illegible]-6D	. . . UNION	1	**
	159-58006	. HYDRAULIC SYSTEM EQUIPMENT INSTALLATION, Nose wheel well . . (see fig. 56 for next assy and fig. 10-, 111 and 139 for additional breakdown)	NP	
-23	AN931---7	. . GROMMET	1	
-24	AN833--D	. . ELBOW	1	
	AN924--D	. . NUT	1	
	AN960D716	. . WASHER	1	
-25	AN6241-12	. . COUPLING ASSY, Hyd self-sealing end bnd fitting end . .	1	
	AN6220-12	. . . COUPLING HALF (Aeroquip No. 1-0S2-12)	1	
	AN6221-12	. . . COUPLING HALF (Aeroquip No. 1-0S1-12)	1	
	AN924-12D	. . NUT	1	
	AN960D1716	. . WASHER	1	
-26	AN6241-8	. . COUPLING ASSY, Hyd self-sealing end bnd fitting end . .	1	
	AN6220-8	. . . COUPLING HALF	1	
	AN6221-8	. . . COUPLING HALF	1	
	AN924-8D	. . NUT	1	
	AN960D1216	. . WASHER	1	
-27	AN6241--	. . COUPLING ASSY, Hyd self-sealing end bnd fitting end . .	1	
	AN6220--	. . . COUPLING HALF	1	
	AN6221--	. . . COUPLING HALF	1	
	AN924--D	. . NUT	1	
	AN960D716	. . WASHER	1	
-28	159-58807-23	. . LINE ASSEMBLY, Hydraulic engine pump drain engine . . . . pump to bottom shear web RH side	1	--20
-29	159-58807-31	. . LINE ASSEMBLY, Engine pump drain elbow to bottom shear . web RH side	1	21-
	159-58018	. HYDRAULIC EQUIPMENT INSTALLATION, Fuselage mating pump dis-. connects to firewall (see figure 51 for next assembly)	NP	
-30	159-58807-25	. . LINE ASSEMBLY, Hydraulic reservoir by-pass return union . on firewall to quick disconnect	1	
-31	159-58807-7	. . LINE ASSY, Hydraulic pressure tee on firewall to quick . disconnect	1	
-32	159-58807-3	. . LINE ASSY, Hydraulic suction tee on firewall to quick . . disconnect	1	
-33	For continuation of this equipment see figure 250		Ref	

* Used on 171-58060
** Used on 159-58060

POWER PLANT AND ENGINE SECTION HYDRAULICS (Cont)

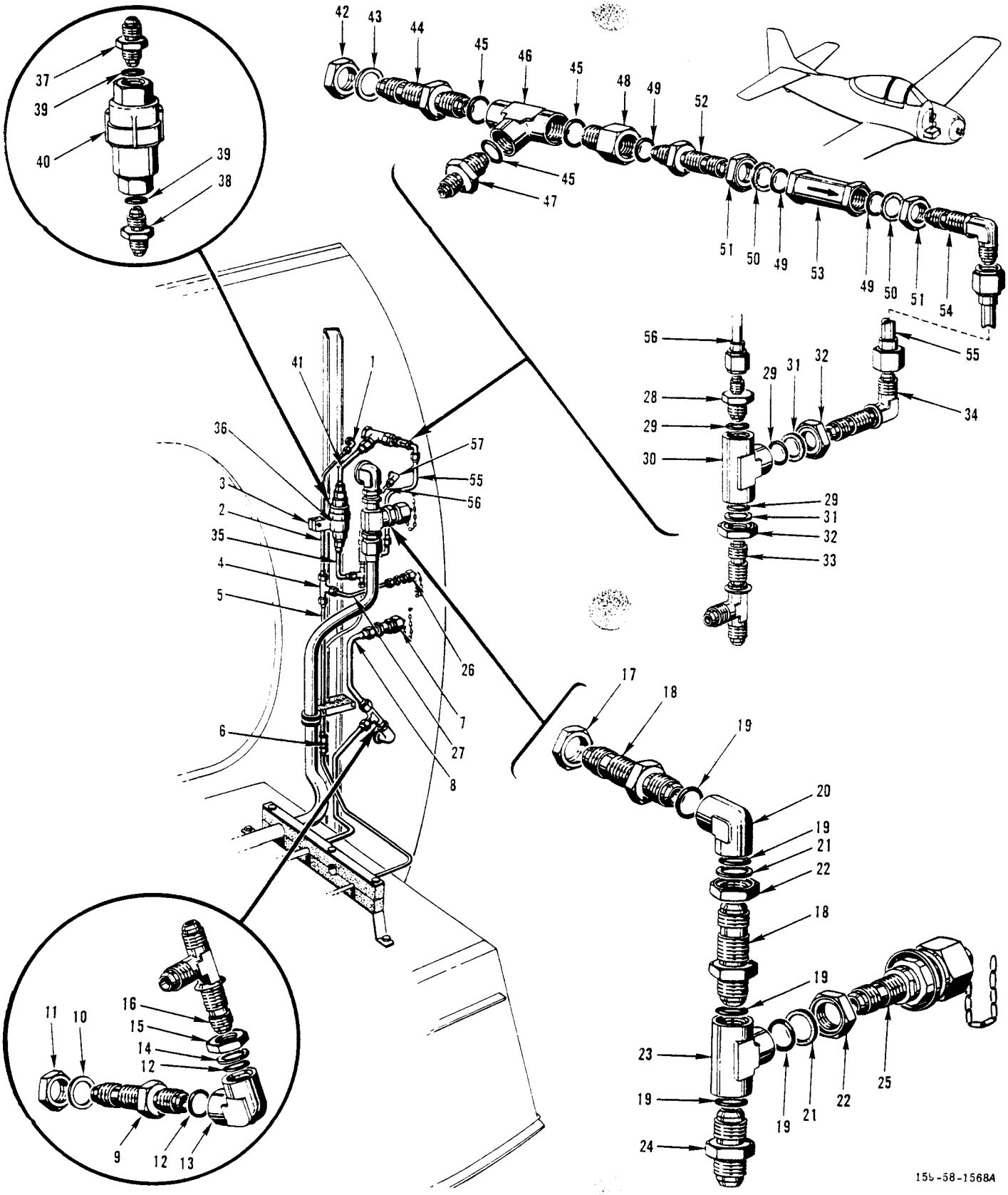


FIGURE 250 - ENGINE SECTION STATION 28 1/2 TO 49 1/2 HYDRAULIC EQUIPMENT

POWER PLANT AND ENGINE SECTION HYDRAULICS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
250	159-58016	HYDRAULIC EQUIPMENT INSTALLATION, Engine section sta 28 1/2 to 49 1/2 (see figure 62 for next assembly)	NP	
-1	AN833-4D	. ELBOW	1	36-4-35
	AN837-4D	. ELBOW	1	
	AN924-4D	. NUT	1	
-2	159-58807-11	. LINE ASSEMBLY, Reservoir by-pass return bulkhead union on firewall to tee	1	
-3	159-58326	. CLAMP ASSEMBLY, Hydraulic fuselage station 49.5 line.	2	
-4	AN824-4D	. TEE	1	
-5	159-58807-27	. LINE ASSY, Reservoir by-pass return tee on firewall to union.	1	
-6	AN815-4D	. UNION	1	
-7	140811-8-6	. COUPLING HALF ASSEMBLY, With dust cap and chain hydraulic self-sealing bulkhead (Aeroquip)	1	
	AN924-8D	. NUT	1	
-8	159-58807-5	. LINE ASSY, Pressure tee to coupling half on firewall.	1	
-9	AN832-8D	. UNION	1	
-10	AN960D1216	. WASHER	1	
-11	AN924-8D	. NUT	1	
-12	AN6290-8	. GASKET	2	
-13	AN827-8D	. ELBOW	1	
-14	AN6291-8	. RING	1	
-15	AN6289D8	. NUT	1	
-16	AN804D8	. TEE	1	
-17	AN924-12D	. NUT	1	
-18	AN832-12D	. UNION	1	
-19	AN6290-12	. GASKET	1	
-20	AN827-12D	. ELBOW	1	
-21	AN6291-12	. RING	1	
-22	AN6289D12	. NUT	1	
-23	AN926-12D	. TEE	1	
-24	AN815-12D	. UNION	1	
-25	140811-12-6	. COUPLING HALF ASSEMBLY, With dust cap and chain hydraulic self-sealing bulkhead (Aeroquip)	1	
-26	140811-4-6	. COUPLING HALF ASSEMBLY, With dust cap and chain hydraulic self-sealing bulkhead (Aeroquip)	1	
	AN924-4D	. NUT	1	
-27	159-58807-29	. LINE ASSEMBLY, Reservoir by-pass return tee on firewall to quick disconnect	1	
-28	AN919-6D	. REDUCER	1	
-29	AN6290-6	. GASKET	1	
-30	AN926-6D	. TEE	1	
-31	AN6291-6	. RING	1	
-32	AN6289D6	. NUT	1	
-33	AN804D6	. TEE	1	
-34	AN833-6D	. ELBOW	1	
-35	159-58807-35	. LINE ASSEMBLY, Hydraulic vent filter to tee	1	
-36	159-58044-3	. FILTER ASSEMBLY, Hydraulic system complete reservoir vent	1	
-37	AN815-6	. . UNION	1	
-38	AN815-6D	. . UNION	1	
-39	AN6290-6	. . GASKET	1	
-40	AN6240-1	. . FILTER ASSY, Hyd replaceable element vent (Skinner Purifier No. 28075A or 36638 may be used)	1	
-41	159-58807-33	. LINE ASSY, Tee on firewall to filter hydraulic vent	1	
-42	AN924-8D	. NUT	1	
-43	AN960D1216	. WASHER	1	
-44	AN832-8D	. UNION	1	
-45	AN6290-8	. GASKET	3	
-46	AN926-8D	. TEE	1	
-47	AN919-12	. REDUCER	1	
-48	AN893-12D	. BUSHING	1	
-49	AN6290-6	. GASKET	3	
-50	AN6291-6	. RING	2	
-51	AN6289D6	. NUT	2	
-52	AN832-6D	. UNION	1	
-53	4-2050-77	. VALVE, Check (Parker Appliance)	1	
-54	AN833-6D	. ELBOW	1	
-55	159-58807-39	. LINE ASSEMBLY, Hydraulic vent check valve to elbow.	1	
-56	159-58807-37	. LINE ASSEMBLY, Hydraulic reservoir scupper drain bulkhead elbow to tee on firewall	1	
-57	AN833-4D	. ELBOW	1	
	AN924-4D	. NUT	1	
	AN960D716	. WASHER	1	

POWER PLANT AND ENGINE SECTION INSTRUMENTS

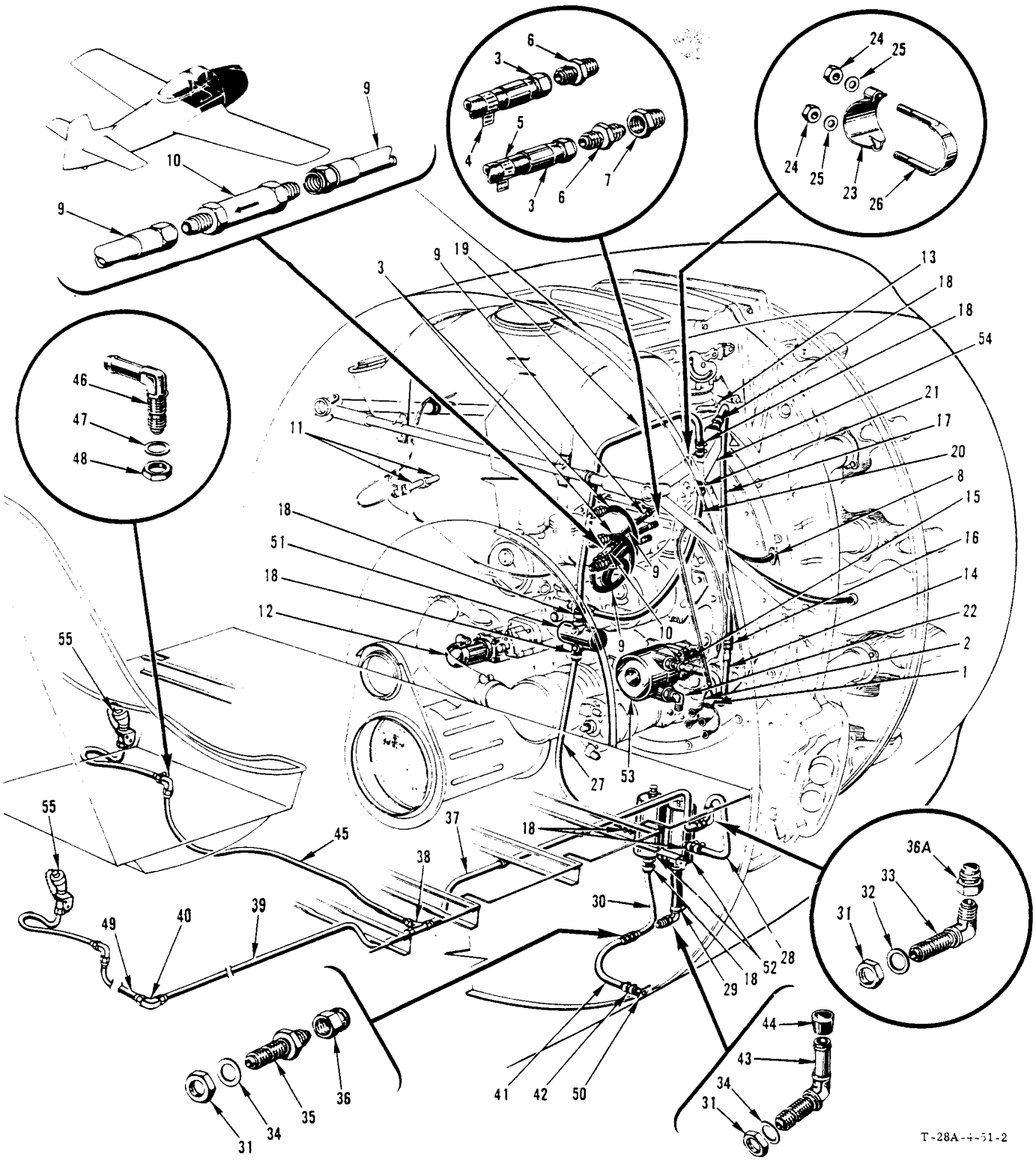


FIGURE 251 - POWER PLANT INSTRUMENTS AND COMPLETE ANTI "G" SUIT EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
251		POWER PLANT INSTRUMENTS AND COMPLETE ANTI "G" SUIT EQUIPMENT		
	159-51040	. INSTRUMENT EQUIPMENT INSTALLATION, Power plant see figure . . (220 for next assembly)	NP	
-1	159-51009-10	. . LEAD ASSY, Cyl head temp thermocouple (to No. 3 cylinder) .	1	
-2	159-51009	. . LEAD ASSY, Cyl head temp thermocouple (to No. 5 cylinder) .	1	
	AN5541-1	. . . THERMOCOUPLE (cylinder temperature)	1	

POWER PLANT AND ENGINE SECTION INSTRUMENTS (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
251	-2A4207	. . .	PLUG ASSY, Thermocouple lead connector large straight	1	
	-2A4309	. . .	PLUG ASSY, Thermocouple lead connector small straight	1	
-3	AN6264A-33	. .	HOSE ASSEMBLY	2	
-4	12125-5	. .	DETAIL MARKING, Manifold pressure (North American)	2	
-5	12125-6	. .	DETAIL MARKING, Oil pressure (North American)	2	
-6	159-51016	. .	FITTING ASSY, Instrument restrictor	2	
-7	AN912-3	. .	BUSHING	1	
-8	159-51020	. .	FAIRLEAD, Thermocouple lead engine	2	
-9	MS28741-4-010	*1 . .	HOSE	2	
-10	1102	*1 . .	SHUBBER, Pressure (operating and maintenance specialties)	1	
-11	AN6525-2	. .	BULB (-70°C to -150°C) (AERNO 61-1301) (GFAE) (Spec 21183, AERNO 61-810, type 21 or 21183A may be substituted)	2	
-12	AN6531-1	. .	GENERATOR, Electric tachometer (GFAE)	1	4-28
	AN6547-2	. .	GENERATOR, Tachometer four pole (GFAE) (AERNO 61-8730)	1	29-
-13	AN6525-1	. .	BULB (GFAE) (AERNO 61-8316)	2	
	159-51072	.	KIT, Anti-"G" suit hose equip. (see fig. 253 for next assy)	1	
-14	AN816-10D18	. .	HOSE ASSEMBLY	1	
-15	AN816-10	. .	NIPPLE	1	
-16	AN819-10	. .	UNION	1	
-17	159-51802-30	. .	LINE ASSY, Vacuum pump flex. to oil separator	1	
-18	3H2210-14	. .	HOSE, Low pressure (North American)	1	
	AN737-34	. .	CLAMP	10	
-19	159-51802-33	. .	LINE, Oil separator to pressure relief valve	1	
-20	159-51802-28	. .	LINE ASSY, Oil separator to oil return line tee	1	
-21	3H2210-13	. .	HOSE, Low pressure (North American)	1	
	AN737-30	. .	CLAMP	8	
-22	AN822-8-8D	. .	ELBOW	1	
-23	159-51067	. .	SUPPORT ASSEMBLY, Oil air separator	1	
	171-51108	. . .	CAP ASSEMBLY, Oil tank support tube front	1	
-24	AN936-28	. .	NUT	2	
-25	AN960-416L	. .	WASHER	2	
-26	159-51071	. .	"U" BOLT, Oil tank support tube front	1	
-27	159-51802-7	. .	LINE, Relief valve pressure to "G" valve	1	
-28	159-51802-8	. .	LINE ASSY, "G" valve to firewall	1	4-393
	3H2210-21	. .	HOSE, Low pressure (North American)	1	394-
	AN737-34	. .	CLAMP	2	394-
-29	3H2210-38	. .	HOSE, Low pressure (North American)	1	4-393
	3H2210-44	. .	HOSE, Low pressure (North American)	1	394-
-30	159-51802-22	. .	LINE ASSEMBLY, "G" valve vent to firewall	1	
	159-51036	.	INSTRUMENT EQUIP. INSTL, Right side panel (see fig. 58 for next assy & fig. 96 & 98 for additional breakdown)	NP	4-268
	171-51036	.	INSTRUMENT EQUIP. Instl, Right side panel (see fig. 58 for next assy & fig. 97 & 98 for additional breakdown)	NP	269-
-31	AN924-10	. .	NUT	3	
-32	AN960-1416	. .	WASHER	1	4-393
	2W1-58-39-64	. .	WASHER, Plain (North American)	2	394-
-33	AN833-10	. .	ELBOW	1	4-393
	AN839-10	. .	ELBOW	1	394-
-34	2W1-58-39-64	. .	WASHER, Plain (North American)	4	
-35	AN832-10	. .	UNION	1	
-36	AN929-10	. .	CAP	1	
-36A	AN929-10	. .	CAP	1	4-393
	AB154	. .	CAP (California Rubber Products, Inc)	1	394-
-37	159-51802-10	. .	LINE ASSY, Firewall to front "G" suit disconnect (sect. 1).	1	4-393
	159-51802-42	. .	LINE ASSY, Firewall to front "G" suit disconnect (sect. 1).	1	394-
-38	AN824-10D	. .	TEE	1	
-39	159-51802-14	. .	LINE ASSY, Front "G" suit disconnect to rear "G" suit disconnect (section 1)	1	4-268
	159-51802-36	. .	LINE ASSY, Front "G" suit disconnect to rear "G" suit disconnect (section 1)	1	269-
-40	AN821-10D	. .	ELBOW	1	
-41	159-51802-24	. .	LINE ASSEMBLY, "G" valve vent firewall to overboard	1	
-42	3H2210-14	. .	HOSE, Low pressure (North American)	1	
	AN737-34	. .	CLAMP	2	
-43	AN839-10	. .	ELBOW	1	
-44	AB154-	. .	CAP (California Rubber Products, Inc)	1	
	159-51033	.	INSTRUMENT EQUIP. INSTL, Fus sta 49 1/2 to 168 (see fig. 51 for next assy & fig. 96 & 98 for additional breakdown)	NP	
-45	159-51802-20	. .	LINE ASSY, Firewall to front "G" suit disconnect (sect. 2).	1	
-46	AN839-10D	. .	ELBOW	2	
-47	2W1AL58-39-64	. .	WASHER, Plain (North American)	2	
-48	AN924-10D	. .	NUT	2	
-49	159-51802-18	. .	LINE ASSY, Front "G" suit tee to rear "G" suit disconnect (section 2)	1	4-268
	159-51802-34	. .	LINE ASSY, Front "G" suit tee to rear "G" suit disconnect (section 2)	1	269-
-50	159-51012		TUBE ASSEMBLY, Anti "G" valve overboard (see figure 66)	Ref	
	The following listed items are government furnished and government installed:				
-51	AN6183-1		VALVE, Air pump safety	Ref	
-52	R-9807		VALVE, Type M2 pressure regulating	Ref	
-53	AN6111-1		VACUUM PUMP, 7 1/2 cubic feet per minute engine driven air	Ref	
-54	AN6121-2		SEPARATOR, Air pump oil	Ref	
-55	4B12487		DISCONNECTOR AND PLUG ASSEMBLY, Pilot's pneumatic anti "G" suit	Ref	

*1 Refer to T. O. 1T-28A-217

POWER PLANT AND ENGINE SECTION ELECTRICAL

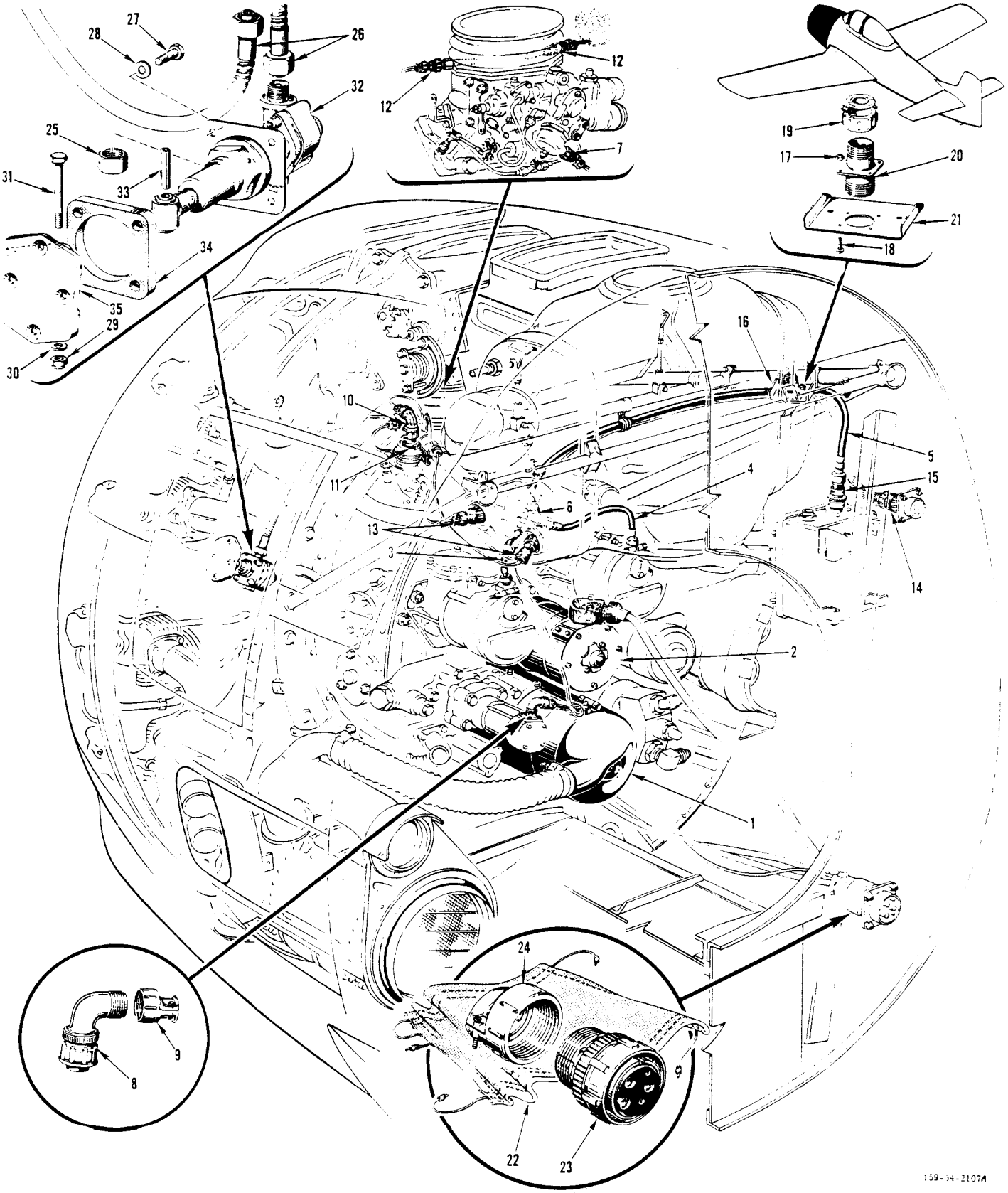


FIGURE 252 - ENGINE SECTION ELECTRICAL EQUIPMENT

POWER PLANT AND ENGINE SECTION ELECTRICAL (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
252	159-54040	ELECTRICAL EQUIPMENT INSTALLATION, Engine section (see figure 220 for next assembly)	NP	
-1	AN3632-1 *1	. GENERATOR, 200 Ampere 30 volt wide speed range (GFAE) (AERNO 42-1910) (Do not use Jack & Heintz G26)	1	
	ATTACHING PARTS			
	AN363-624	. NUT (To replace fiber locknuts supplied with engine)	6	181-
	---*---			
-2	AN4116R3	. STARTER, Aircraft direct cranking 24 volt DC (GFAE) (AERNO 42-8803)	1	
-3	159-54132-5	. CONDUIT ASSEMBLY, Engine ignition electric magneto	1	
-4	159-54132-3	. CONDUIT ASSEMBLY, Engine ignition electric magneto	1	
-5	159-54133-3	. CONDUIT ASSEMBLY, Engine ignition electric	1	
-6	AD4076	. Y FITTING (Titeflex)	1	
-7	AN3106-12S4S	. PLUG (Engine primer solenoid)	1	
	AN3057-4A	. ADAPTER	1	
-8	AN3108-14S1S	. PLUG (Tachometer generator)	1	4-28
	AN3108-10SL3S	. PLUG (Tachometer generator)	1	29-252
	AN3106-10SL3S	. PLUG	1	253-
-9	AN3057-6A	. ADAPTER	1	4-28
	AN3057-4A	. ADAPTER	1	29-
-10	AN3108-8S1S	. PLUG (Oil dilution solenoid)	1	
	AN3057-3A	. ADAPTER	1	
-11	117-2	. LUG, Safety (North American)	1	
-12	AN3106-12S3S	. PLUG (2 Plug and adapter used on each side of carburetor at air temperature bulb)	2	
	AN3057-4A	. ADAPTER	2	
-13	AN3106-12S3S	. PLUG (Oil temperature bulb)	2	
	AN3057-4A	. ADAPTER	2	
-14	AN3106-22-14P	. PLUG (Firewall plug for carburetor air temp bulb)	1	
	AN3057-12A	. ADAPTER	1	
-15	AN3106-14S9S	. PLUG (Induction vibrator)	1	
-16	159-54140	. BRACKET ASSEMBLY, Ignition plug grounding receptacle	1	
-17	AN365-440	. . NUT	4	
-18	AN515-4R6	. . SCREW	4	
-19	AN3057-6A	. . ADAPTER	1	
-20	AN3100-14S9P	. . RECEPTACLE	1	
-21	159-54134	. . BRACKET, Ignition plug grounding receptacle	1	
-22	144-54071	. POWER ASSEMBLY, Electrical connector plug	1	
-23	AN3106-36-2P	. PLUG (Firewall	1	
-24	AN3057-24A	. ADAPTER	1	
	159-54039	. ACTUATOR INSTALLATION, Engine cowl flaps	NP	
-25	M896	. . CAP, Cowl flap mechanism assembly (Air Associates)	2	
-26	M405-M1	. . FLEXIBLE DRIVE SHAFT (Air Associates)(supersedes Air Associates WM2-514-M20 which may be used interchangeably until stock is exhausted)	2	
-27	AN4-10A	. . BOLT	3	
-28	AN960C416	. . WASHER	3	
-29	AN365-428	. . NUT	2	
-30	AN960C416L	. . WASHER	2	
-31	AN4-20A	. . BOLT	2	
-32	AM4-598	. . SCREW JACK ASSEMBLY, Cowl flap (Air Associates)	2	
-33	159-31585	. . SPACER, Engine cowl flap actuator attaching	2	
-34	159-54374	. . SHIM, Engine cowl flap actuator support (this part and 159-315160 supersedes 159-315+2)	2	
-35	159-315160	FITTING, Engine cowl flap actuator attaching (see figure 237)	Ref	

*1 Refer to T. O. 1T-28A-218

LOOSE EQUIPMENT

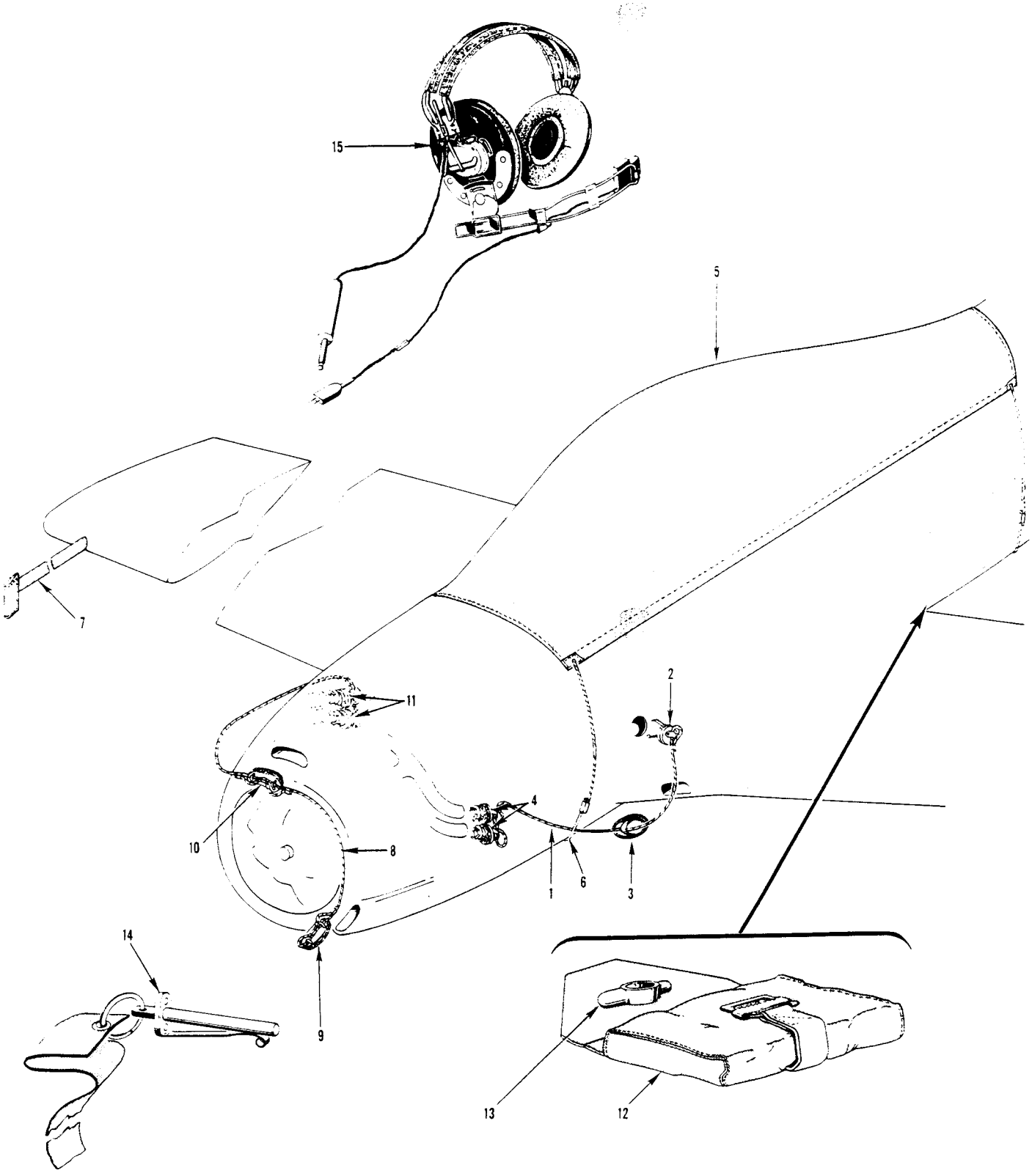


FIGURE 253 - LOOSE EQUIPMENT AND GENERAL DATA

LOOSE EQUIPMENT (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
253	159-53075	DATA INSTALLATION, Loose equipment and general (see figure 1 for next assembly)	NP	
		THE FOLLOWING ITEMS STOWED IN BAGGAGE COMPARTMENT		
-1	159-73006	. PLUG ASSEMBLY, LH external openings dust excluding	1	
-2	159-73010	. . COVER ASSEMBLY, Cockpit heater exhaust dust excluder	1	
-3	159-73015	. . COVER ASSEMBLY, Heater combustion air intake	1	
-4	159-73017	. . COVER ASSEMBLY, Engine exhaust	2	
-5	159-73005	. COVER ASSEMBLY, Cockpit enclosure	1	4-693
	174-73005	. COVER ASSEMBLY, Cockpit enclosure	1	694-
-6	159-73005-29	. . STRAP ASSY, Cockpit enclosure cover (forward)	1	4-693
	174-73005-17	. . STRAP ASSY, Cockpit enclosure cover (forward)	1	694-
	159-73005-31	. . STRAP ASSY Cockpit enclosure cover (aft)	1	4-693
	174-73005-19	. . STRAP ASSY, Cockpit enclosure cover (aft)	1	694-
	159-73005-37	. . STRAP ASSY, Cockpit enclosure cover (forward and aft)	2	4-693
	174-73005-23	. . STRAP ASSY, Cockpit enclosure cover (forward and aft)	2	694-
-7	159-73076	. COVER ASSEMBLY, Pitot tube (dust)	1	
-8	159-73016	. PLUG ASSEMBLY, RH external openings dust excluding	1	
-9	159-73007	. . SEAL ASSEMBLY, Oil cooler air intake dust	1	
-10	159-73008	. . SEAL ASSEMBLY, Carburetor air intake dust	2	
-11	159-73017	. . COVER ASSEMBLY, Engine exhaust	1	
	[illegible]	. KIT, Packing and mooring	1	4-268
-12	[illegible]	. . BAG ASSEMBLY, Packing and mooring	1	4-268
-13	[illegible]	. . FITTING, Packing and mooring	3	4-268
	[illegible]	. FITTING, Packing and mooring	3	269-
-14	[illegible]	. PIN ASSY, Alighting gear in lock safety (stk no. 1730-213-9148)	3	644-
	159-51072	. KIT, Anti- "G" suit loose equipment (see figure 251 for detail breakdown)	1	
		THE FOLLOWING ITEMS STOWED IN PILOT'S DELIVERY ENVELOPE		
-15	No Number	. HEADSET AND MICROPHONE (H-6A/UR) (Signal Corp No. 2B800-46A) (GFAE) (H-6/UR Signal Corp No. 2B800--6 may be sub)	2	4-8-3
	No Number	. HEADSET AND MICROPHONE (H-6/AIC) (Signal Corp No. 2B800-78) (S52D2206) (GFAE)	2	844-
		THE FOLLOWING ITEMS STOWED IN DATA CASE (3682573) (LOCATED IN THE BAGGAGE COMPARTMENT)		
	AN 16-30ARC3-2	. HANDBOOK, Operating instructions for radio set AN/ARC3 (GFAE).	1	4-693
	AN 16-1-66	. HANDBOOK, Operating instructions for USAF combat interphone (GFAE)	1	4-843
	AN 16-30AIC10-1	. HANDBOOK, Operating instructions for AN/AIC10 interphone system (GFAE)	1	844-
	AN 16-30ARN7-2	. HANDBOOK, Operating instructions for radio compass AN/ARN7 (GFAE)	1	4-268
	AN 01-60FG6	. HANDBOOK, Inspection requirements (GFAE)	1	
	AN 01-60FGA2	. MANUAL, Erection and maintenance (GFAE)	1	
	No Number	. ENVELOPE AND INVOICES (AF forms 15A and 15) (GFAE)	1	
	No Number	. RECORD, Technical instruction compliance (AF form 61) (GFAE)	1	
	No Number	. RECORD, Technical instruction compliance (AF form 60B) (GFAE).	1	
	No Number	. RECORD, Technical instruction compliance (AF form 60A) (GFAE).	1	
	No Number	. REPORT, Aircraft checkers (AF form 263C) (GFAE)	1	
	AN 16-40RC193-2	. HANDBOOK, Maintenance RC193 AN 16-40RC193-3 may be sub.)	1	41-270
	AN 01-60FGA-4	. CATALOG, Illustrated Parts Breakdown (GFAE)	1	1094-
	No Number	. REPORT, Inspector's and pilot's final acceptance (AF form 262) (GFAE)	1	
	AN 16-30ARC27-2	. HANDBOOK, Operating instructions for AN/ARC27 (GFAE)	1	594-
	AN 16-30ARN6-2	. HANDBOOK, Operating instructions for radio compass AN/ARN6 (GFAE)	1	269-
	AN 16-30ARN18	. HANDBOOK, Operating instructions for glide path receiver AN/ARN18 (GFAE)	1	594-
	AN 16-30ARN14-6	. HANDBOOK, Operating instructions for radio receiver AN/ARN14 (GFAE)	1	594-
	AN 16-30ARN12-6	. HANDBOOK, Operating instructions for marker beacon AN/ARN12 (GFAE)	1	271-
	AN 16-30ARA26-1	. HANDBOOK, Operating instructions for emergency keyer AN/ARA26 (GFAE)	1	844-
		THE FOLLOWING ITEMS ARE STOWED IN THE MAP CASE (NORTH AMERICAN NO. 159-53103)		
	AN 01-60FGA1	. HANDBOOK, Flight operating instructions	1	
	No Number	. SUPPLEMENTARY FLIGHT INFORMATION OF UNITED STATES (GFAE)	1	
	No Number	. CHART, Radio facility (GFAE) (L/F, M/F edition)	1	
	No Number	. HANDBOOK, East US pilot's (GFAE)	1	
	No Number	. HANDBOOK, West US pilot's (GFAE)	1	
		THE FOLLOWING ITEMS ARE STOWED IN THE FLIGHT REPORT HOLDER		
	No Number	. REPORT, Flight (AF form 1) (GFAE)	1	

ARMAMENT KIT

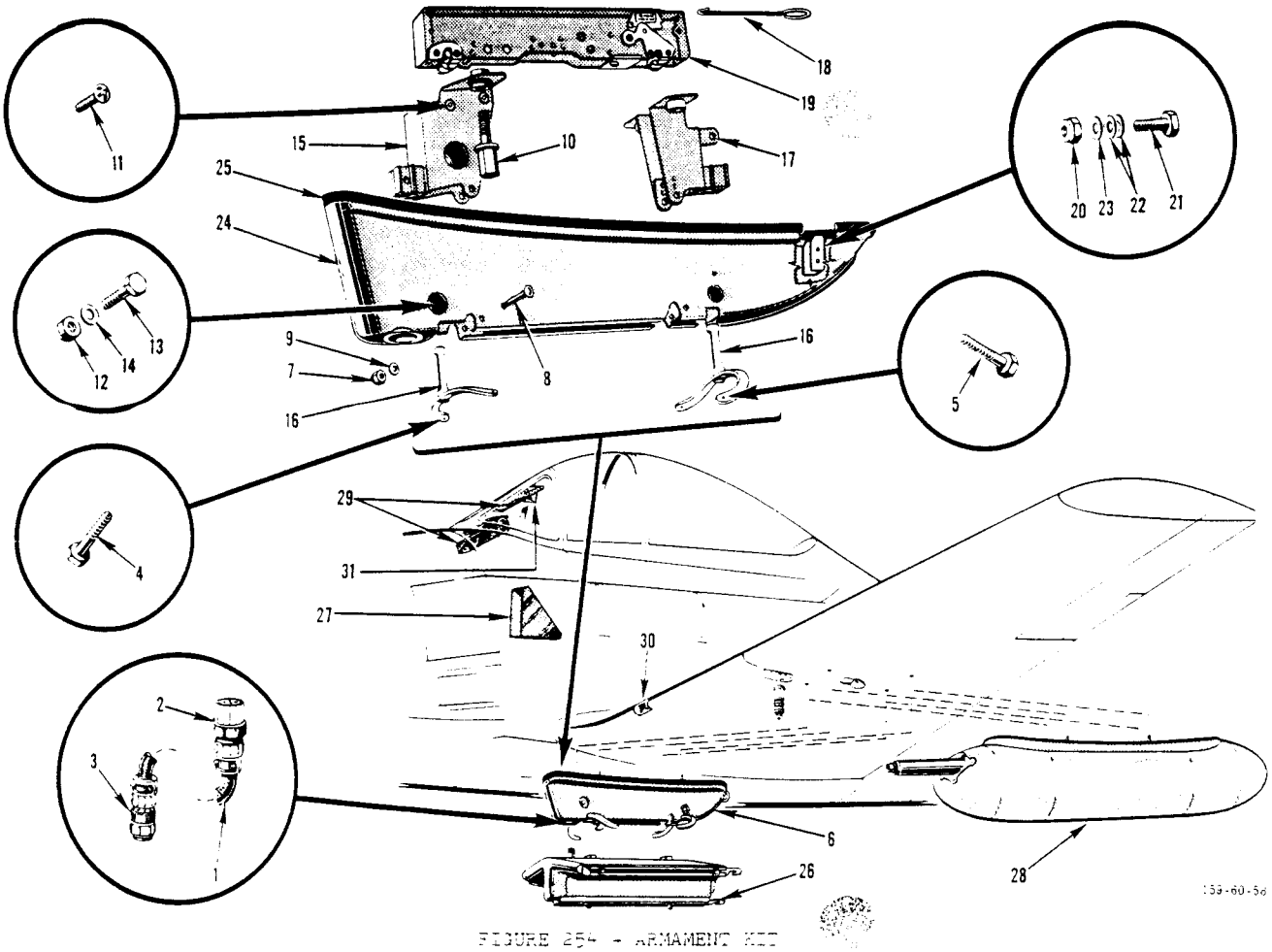
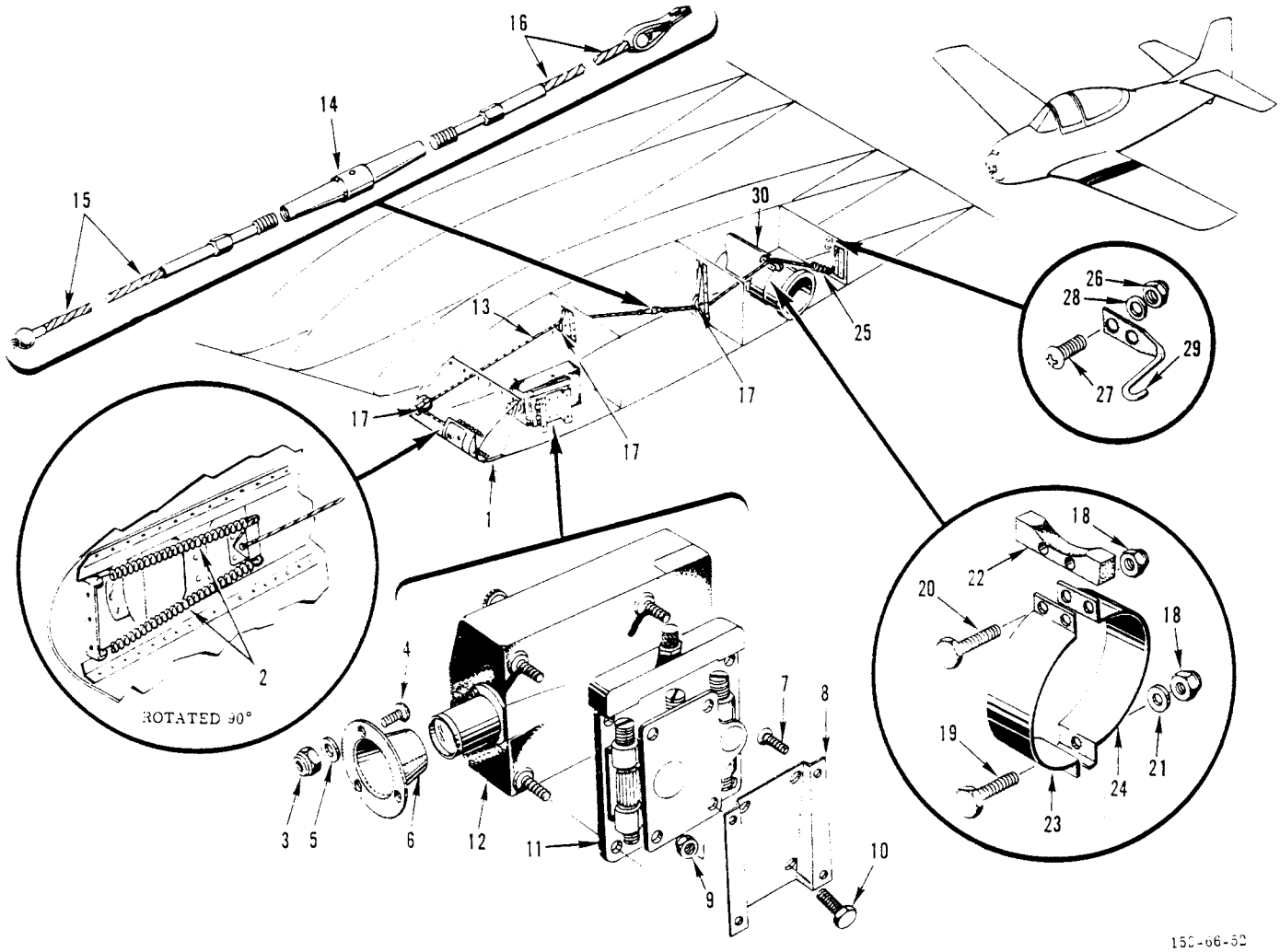


FIGURE 254 - ARMAMENT KIT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
254	159-89C01	KIT, Armament	1	--593
-1	159-54C17	. ADAPTER ASSY, Elec Bomb Cannister (used only with type T-1 practice bomb container)	2	--593
-2	AN3107-1-S2P	. . PLUG	1	--593
	AN3C57-6	. . ADAPTER	1	--593
-3	AN3106-18-12S	. . PLUG	1	--593
	AN3C57-10	. . ADAPTER	1	--593
-4	AN4-7A	. BOLT, (use with M-5 practice bomb cluster)	2	4-593
-5	AN4-12A	. BOLT, (used only with M-5 bomb cluster)	2	4-593
-6	159-63C02	. RACK ASSEMBLY, Bomb complete	2	4-593
-7	AN320-3	. . NUT	2	4-593
-8	AN25-34	. . BOLT	2	4-593
-9	AN960D516	. . WASHER	2	4-593
-10	159-63C14	. . BOLT, Bomb rack attaching	4	4-593
-11	AN520-10R8	. . SCREW, Round head machine fine thread	4	4-593
-12	AN365-624	. . NUT	2	--593
-13	AN6-13A	. . BOLT	2	--593
-14	AN960-616	. . WASHER	2	4-593
-15	159-63C03	. . SUPPORT ASSEMBLY, Bomb rack front	1	4-593
-16	159-63C08	. . BRACE ASSEMBLY, Bomb rack sway	2	4-593
-17	159-63C04	. . SUPPORT ASSEMBLY, Bomb rack rear	1	4-593
-18	159-63012	. . RING, Bomb rack cooking	1	4-593
-19	5025670	. . RACK ASSEMBLY, Bomb electrically operated type S-2(GFAE)	1	4-593
-20	AN365-1032	. . NUT	1	4-593
-21	AN3-5	. . BOLT	1	4-593
-22	2W1P 14-20-94	. . WASHER, (North American)	2	4-593
-23	AN960D10	. . WASHER	1	4-593
-24	159-63C09	. . FAIRING ASSEMBLY, Bomb rack	1	4-593
-25	159-63C09-0	. . . STRIP, Rudder	1	4-593
-26	159-68C02-10	. ROCKET LAUNCHER ASSY, (use 159-68C02 intl exh) (see fig. 256)	2	4-593
-27	159-89C01-10	. KIT, Armament control panel (see fig. 262 for detail breakdown)	1	4-593
-28	159-89C01-20	. KIT, Gun package (see figure 259 for detail breakdown)	2	4-593
-29	159-89C01-40	. KIT, Gun camera (see fig. 255 for detail breakdown)	1	4-593
-30	159-89C01-50	. KIT, Sight line level indicator (see fig. 264 for detail breakdown)	1	4-593
	NA50-439	. INSTALLATION REPORT	1	4-593

AN 01-60FGA-4

ARMAMENT KIT (Cont)



159-66-30

FIGURE 255 - GUN CAMERA KIT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
255	159-69001-40	KIT, Gun camera (see figure 254 for next assembly)	REF	4-593
-1	159-66015	. DOOR ASSEMBLY, WCS leading edge gun camera sliding	1	4-593
-2	159-66011	. SPRING, WCS leading edge gun camera door retract	2	4-593
-3	AN365-832	. Nut	2	4-593
-4	AN515-8R8	. SCREW	2	4-593
-5	AN960D8	. WASHER	2	4-593
-6	159-66028	. SEAL ASSEMBLY, Wing nose beam gun camera cutout	1	4-593
-7	AN520-10R8	. SCREW	4	4-593
-8	159-66024	. BRACKET, WCS Station 59 gun camera support	1	4-593
-9	AN365-1032	. NUT	4	4-593
-10	AN3-4A	. BOLT	4	4-593
-11	44D27005	. MOUNT ASSEMBLY, Gun camera type G-1 (AERNO 74M100) (GFAE)	1	4-593
-12	No Number	. CAMERA, Gun type AN-N6 (AERNO 74C2250) (GFAE)	1	4-593
-13	159-66009	. CABLE ASSEMBLY, Gun camera sliding door retracting	1	4-593
-14	AN155-8S	. . BARREL	1	4-593
-15	159-66025	. . CABLE ASSEMBLY, Gun camera door retracting forward	1	4-593
-16	159-66026	. . CABLE ASSEMBLY, Gun camera door retracting aft	1	4-593
-17	AN210-1A	. PULLEY	3	4-593
-18	AN365-1032	. NUT	2	4-593
-19	AN3-6A	. BOLT	2	4-593
-20	AN3-10A	. BOLT	2	4-593
-21	AN960D10	. WASHER	2	4-593
-22	159-66019	. BLOCK, Gun camera door cable chafing	1	4-593
-23	159-66020-5	. STRAP, Gun camera door cable chafing block	1	4-593
-24	159-66020-3	. STRAP, Gun camera door cable chafing block	1	4-593
-25	130-52086	. SPRING, Cont. lock ail. cable	1	4-593
-26	AN365-440	. NUT	2	4-593
-27	AN515-4D6	. SCREW	2	4-593
-28	AN960D4	. WASHER	2	4-593
-29	4H1	. HOOK, (North American)	1	4-593
-30	A75450	STRUT ASSEMBLY, Main landing gear shock (figure 200)	Ref	

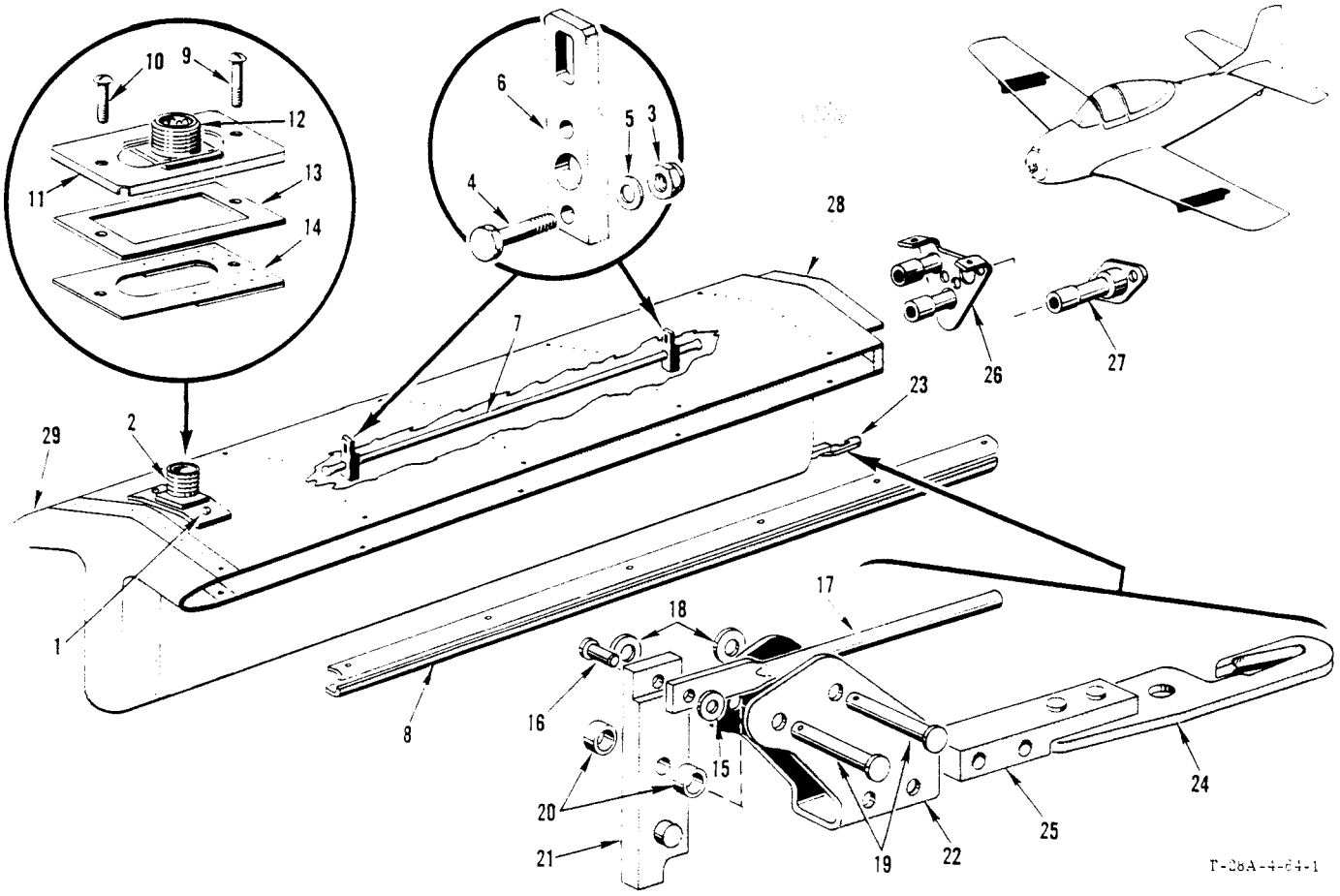


FIGURE 256 - ROCKET LAUNCHER ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
256	159-68002	ROCKET LAUNCHER ASSY, (superseded by 159-68002-10. 159-68002 may be used interchangeably with 159-68002-10 until stock is exhausted)	Ref	
	159-68002-10	ROCKET LAUNCHER ASSY, (supersedes 159-68002 for future procurement (see Fig. 254 and Book for next assy)	Ref	
-1	AN515-6-6	. SCREW, (on 159-68002 only)	2	
	159-68014	. COVER ASSY, Rocket launcher (on 159-68002 only)	1	
-2	AN3102-14S2P	. . RECEPTACLE	1	
-3	AN365-428	. NUT	4	
-4	AN4-10A	. BOLT	4	
-5	AN960D416	. WASHER	4	
-6	159-68020	. LUG, Rocket launcher	2	
-7	159-68002-9	. TUBE, Rocket launcher	1	
-8	159-68013	. RAIL ASSY, Rocket launcher	3	
-9	AN526-1032-12	. SCREW	1	*
-10	AN526-1032-10	. SCREW	1	*
-11	200-68007	. TRACK, Rocket launcher electrical connector upper	1	*
-12	AN3102-14S2P	. RECEPTACLE	1	*
-13	200-68008	. SPACER, Rocket launcher electrical connector track	1	*
-14	200-68006	. TRACK ASSY, Rocket launcher electrical connector lower	1	*
	159-68010	. LATCH ASSY, Rocket launcher	3	
-15	AN960D6L	. . WASHER	1	
-16	AN392-9	. . PIN	1	
-17	159-68010-5	. . HANDLE, Rocket launcher	1	
-18	AN960D10L	. . WASHER	2	
-19	AN393-27	. . PIN	2	
-20	4S4-6-6	. . SPACER, Rivet (North American)	2	
-21	159-68011	. . ARM ASSY, Rocket launcher	1	
-22	159-68010-3	. . BRACKET, Rocket launcher	1	
-23	159-68015	. KNIFE ASSY, Rocket launcher igniter cable	3	
-24	159-68016	. . KNIFE, Rocket launcher igniter cable	1	
-25	159-68018	. . SUPPORT, Rocket launcher igniter cable knife	1	
-26	159-68024	. PLATE ASSY, Rocket launcher receptacle	1	
-27	Q237	. . PLUG AND JACK ASSY (GFAE) (Monowatt Electric)	3	
-28	159-68006	. FAIRING ASSY, Rocket launcher aft	1	
-29	159-68005	. FAIRING ASSY, Rocket launcher fwd (on 159-68002 only)	1	
	200-68005	. FAIRING ASSY, Rocket launcher	1	*

* Used on 159-68002-10 only.

FIGURE 45 DELETED

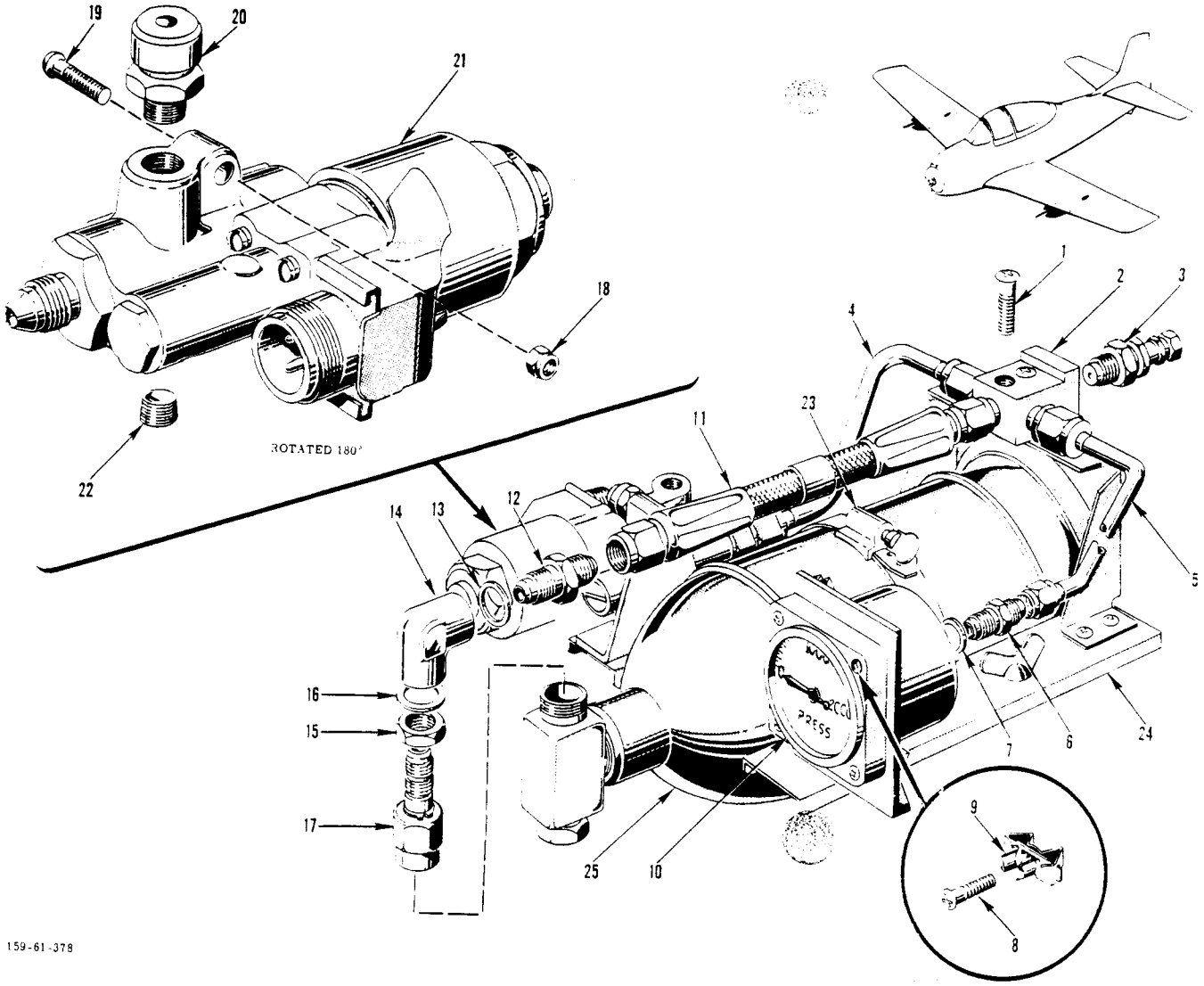


FIGURE 256 - GUN CHARGER CYLINDER ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
256	159-61066		CYLINDER ASSEMBLY, Package gun charger (see Figure 260 for next assembly)	Ref	4-593
-1	NAS220-19		. SCREW, Brazier head Phillips recess alloy steel 8-32	2	4-593
-2	159-61068		. FITTING, Package gun charging control unit	1	4-593
-3	AN6287-1		. VALVE, Air high pressure 3/4 hexagon	1	4-593
-4	159-61069		. TUBE ASSEMBLY, Package gun charging solenoid valve	1	4-593
-5	159-61067		. TUBE ASSEMBLY, Package gun charging pressure gage	1	4-593
-6	AN816-4D		. UNION	1	4-593
-7	AN902-4		. GASKET	1	4-593
-8	AN515B6-12		. SCREW	4	4-593
-9	A6939-632-125		. NUT, (Tinnerman)	4	4-593
-10	AN5771T-4B		. GAGE, Single 1 7/8 dial pressure	1	4-593
	AN5771T-4B		. GAGE, Single 1 7/8 dial pressure (GFAE) (AERNC 61-2350)	1	4-593
-11	AN6271-4-6 1/2		. HOSE ASSY	1	4-593
-12	AN816-4D		. UNION	1	4-593
-13	AN902-4		. GASKET	1	4-593
-14	AN927-4D		. ELBOW	1	4-593
-15	AN924-4D		. NUT	1	4-593
-16	AN902-4		. GASKET	1	4-593
-17	360T9-756		. COUPLING ASSEMBLY, Power actuator (Walter Kidde)	1	4-593
-18	AN525-1032		. NUT	1	4-593
-19	NAS221-12		. SCREW, Brazier head Phillips recess alloy steel 10-32	2	4-593
	159-61066-21		. CYLINDER SUB ASSEMBLY, Package gun charger	1	4-593
-20	331835		. . PLUG, Quick release (Walter Kidde)	1	4-593
-21	370449		. . VALVE ASSY, Solenoid (Walter Kidde)(AAF dwg No. -5D4782)	1	4-593
-22	AN932-2		. . PLUG	1	4-593
-23	MS20019B8		. CLAMP, Hose (aft) (Aircraft Standard Parts)	1	4-593
-24	159-61057		. SUPPORT ASSEMBLY, Package gun charging controlunit	1	4-593
-25	360U3942		. CYLINDER ASSEMBLY, 57 Cubic inches self opening air valve 1980 PSI (Walter Kidde)	1	4-593

AN 01-60FGA-2

ARMAMENT KIT (Cont)

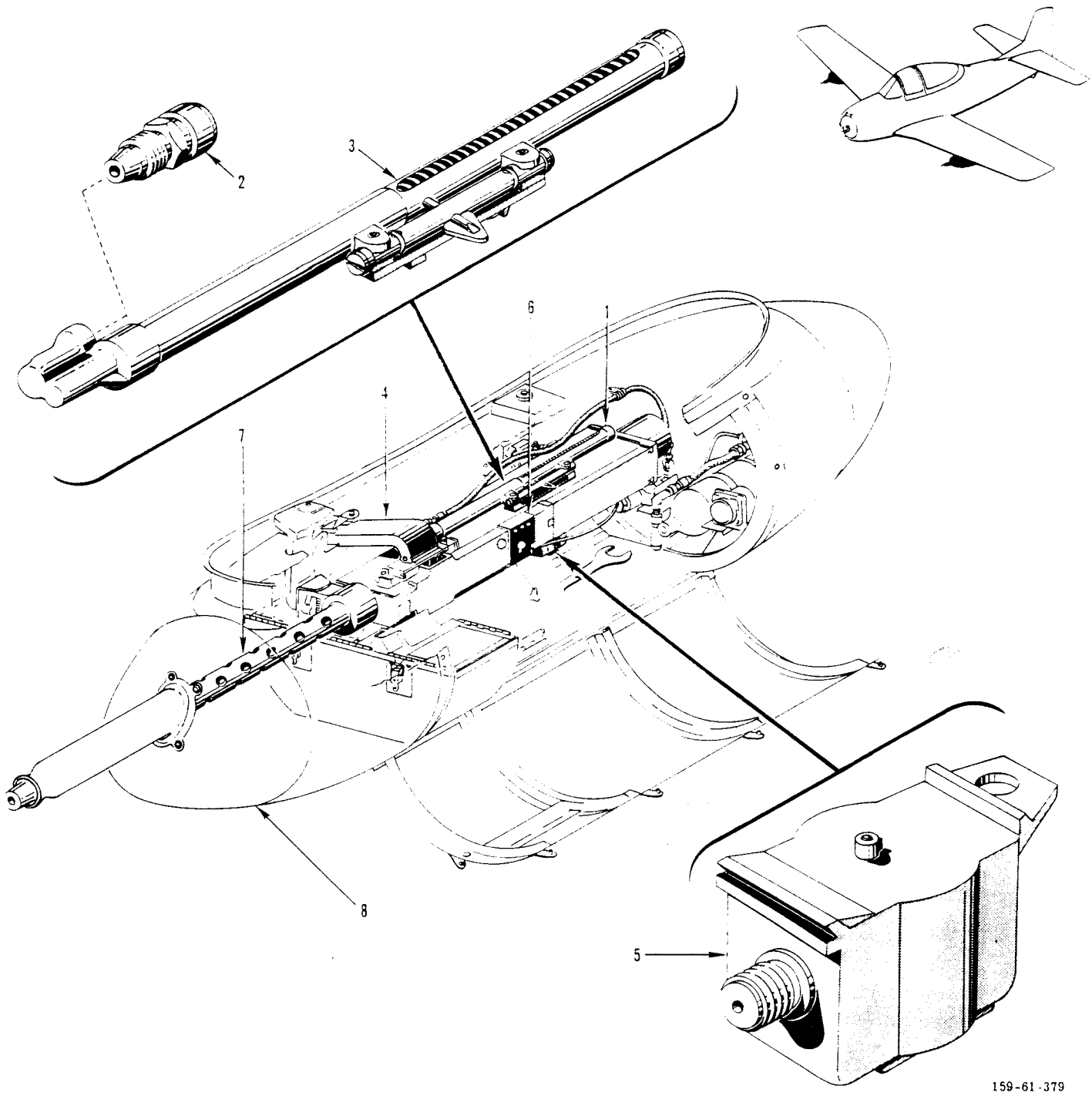


FIGURE 259 - GUN PACKAGE KIT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
259	159-89001-20	KIT, Gun package (see figure 264 for next assembly)	Ref	4-593
-1	159-61072	. CHARGER ASSEMBLY, Package gun	1	4-593
-2	931491	. . BREAK ASSEMBLY, Female quick release (Walter Kidde) . . .	1	4-593
-3	H50 981000	. . GUN CHARGER, Hold back (GFAE) (reworked per AF dwg S50B4159)	1	4-593
-4	159-61006	. CHUTE ASSEMBLY, Package gun link ejection	1	4-593
-5	No Number	. SOLENOID ASSEMBLY, Caliber 50 (type J-3) (Spec. 33-24706D) (AAF Drawing No. -650021) (GFAE)	1	4-593
-6	No Number	. HEATER ASSEMBLY, Electric gun (type J--) (Spec 33-24946) (AAF Drawing No. 44B25259) (GFAE)	1	4-593
-7	No Number	. GUN, Machine caliber 50 (Type M-3) (AAF Drawing No. H-50R4353) (GFAE)	1	4-593
-8	159-61001	. GUN, Package assembly, (see figure 260 for detail breakdown).	1	4-593

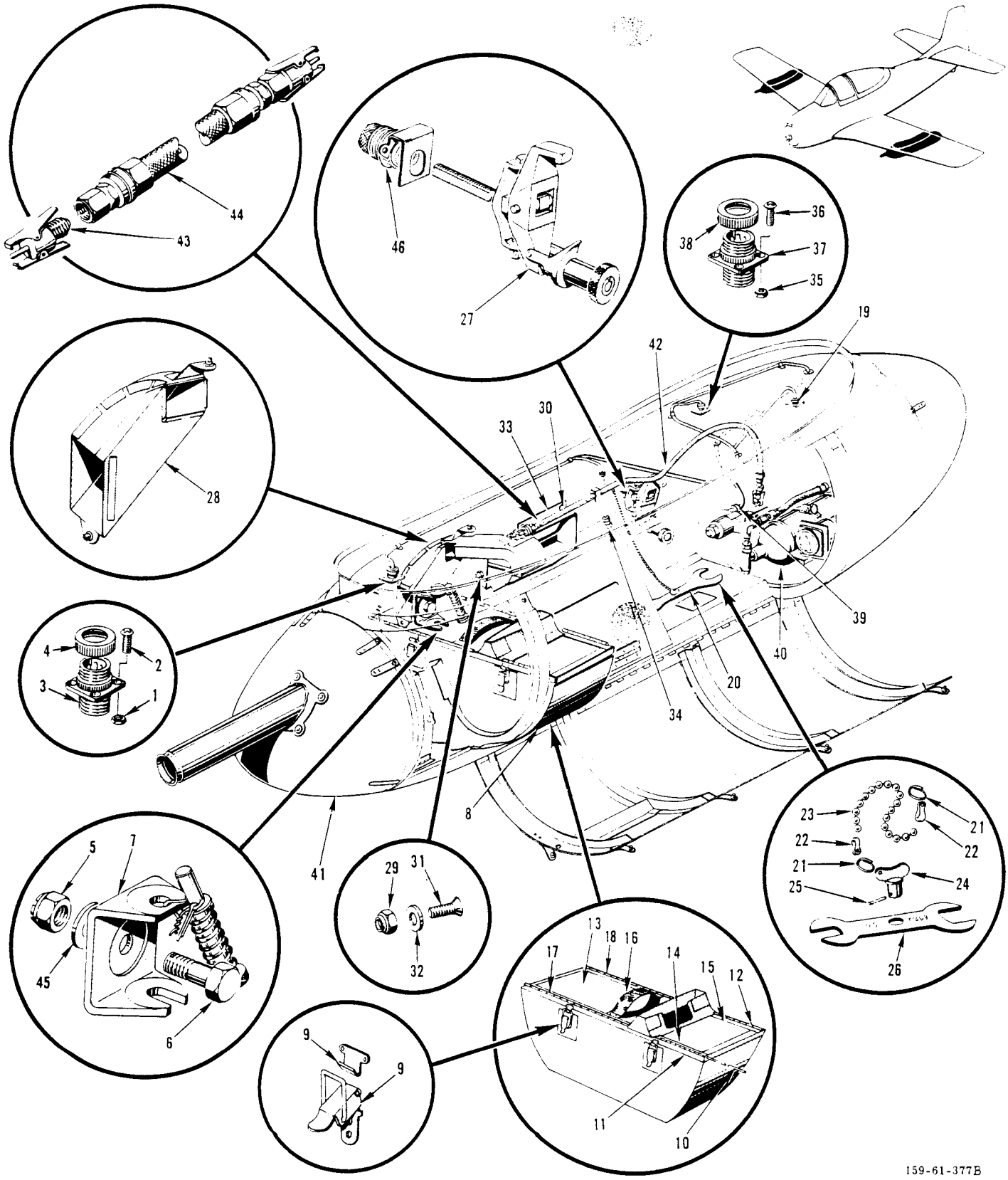


FIGURE 260 - GUN PACKAGE ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
260	159-61061	GUN PACKAGE ASSY, (see figure 260 for next assembly)	Ref	4-593
	174-61061	GUN PACKAGE ASSY, (see figure 266C for next assembly)	Ref	594-
-1	AN365-440	. NUT	4	
-2	AN515-4-5	. SCREW	4	4-593
	AN515-4R6	. SCREW	1	594-
	AN515-4R7	. SCREW	3	594-
-3	AN3100-16S1P	. RECEPTACLE	1	
-4	AN365-4-3	. NUT	1	
-5	AN310-12	. NUT	1	
-6	AN12H30	. BOLT, magnetic inspected	1	
-7	159-61100	. BRACKET ASSY, Gun ammunition type A1A (PAE)	1	
-8	159-61067	. BOX ASSY, Package gun ammunition	1	
-9	159-61007	. . LATCH AND STRIKE (Jordin Cabinet Lock Co)	2	
-10	159-61007-15	. . PIN, Package gun ammunition	2	
-11	159-61066-7	. . HINGE, Package gun ammunition box	1	
-12	159-61066-8	. . HINGE, Package gun ammunition box	1	
-13	159-61066	. . COVER ASSY, Package gun ammunition box	1	
-14	159-61066-10	. . . HINGE, Package gun ammunition box LH	1	
-15	159-61066-14	. . . HINGE, Package gun ammunition box RH	1	
-16	159-61064	. . . HANDLE ASSY, Package gun ammunition box	1	
-17	159-61066-11	. . . HINGE, Package gun ammunition box LH	1	
-18	159-61066-12	. . . HINGE, Package gun ammunition box RH	1	
-19	AN3106-14S2S	. RECEPTACLE	1	594-
	AN365-4-2	. NUT	1	594-
-20	159-61033	. WRENCH ASSY, Package gun rear mount adjustment	1	
-21	142-61043	. . RING, Foresight target peepsight	2	
-22	AN4735	. . FASTENER, Chain (Union Hardware and Metal	2	
-23	371-1-6	. . CHAIN, Bead (North American)	1	
-24	159-61033-3	. . FASTENER, Package gun rear mount adjustment	1	
-25	AN931	. . PIN, Fastener (United-Carr	1	
-26	1159	. . WRENCH, Package gun rear mount adjustment	1	
-27	1178	. MOUNT ASSY, Model M-1 .50 caliber fixed gun (Rosan) supersedes 1178	1	
-28	159-61034	. HOPPER ASSY, Package gun link ejection	1	
-29	AN365-1032	. NUT	1	4-593
	AN365-1032	. NUT	2	594-
-30	MS2221-8	. SCREW, Brazier head Phillips recess alloy steel 10-32	4	
-31	AN509-10-10	. SCREW	4	4-593
	AN509-10R10	. SCREW	2	594-
-32	AN960-10	. WASHER	4	4-593
	AN960-10	. WASHER	2	594-
-33	159-61061	. CHUTE ASSY, Package gun base	1	
-34	AN3106-10S2S	. PLUG	1	4-593
	AN3057-3	. ADAPTER	1	4-593
-35	AN365-440	. NUT	4	
-36	AN515-4-5	. SCREW	4	4-593
	AN515-4R8	. SCREW	1	594-
	AN515-4R7	. SCREW	3	594-
-37	AN3100-12S3S	. RECEPTACLE	1	
-38	AN3054-4	. NUT	1	
-39	AN3106-10SL4S	. PLUG	1	4-593
	AN3057-4	. ADAPTER	1	4-593
-40	159-61066	. CYLINDER ASSY, Pkg gun charger (see fig. 259 for detail breakdown)	1	4-593
	174-61066	. CYLINDER ASSY, Package gun charger (see figure 266E for detail breakdown	1	594-
-41	159-61002	. FAIRING ASSEMBLY, Package gun (see figure 261 for detail breakdown)	1	4-593
	159-61002-101	. FAIRING ASSEMBLY, Package gun (see figure 261 for detail breakdown)	1	594-
-42	159-61074	. HOSE ASSEMBLY, Package gun charger	1	4-593
-43	331484	. . BREAK ASSY, Quick release male (Walter Kidde)	2	4-593
-44	AN6271-3-30	. . HOSE ASSEMBLY	1	4-593
-45	2W1048-48-125	. WASHER, Plain (North American)	1	594-
-46	RZA10020	INSERT ASSY, .50 caliber gun rear mount (Rosan) (see fig. 261)	Ref	

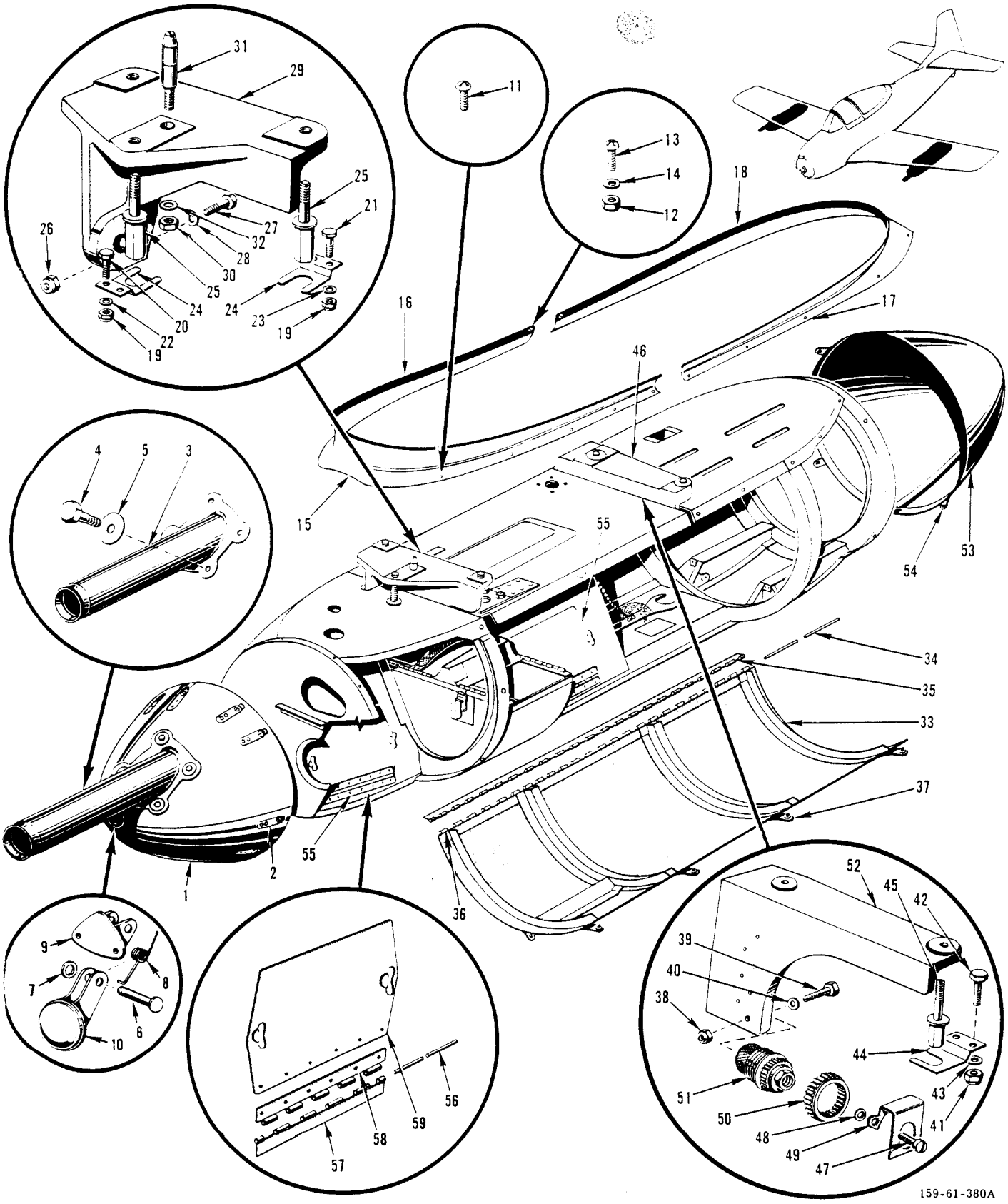


FIGURE 261 - GUN PACKAGE FAIRING ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
261	159-61002	FAIRING ASSY, Package gun (see figure 260 for next assy)	Ref	4-593
	159-61002-101	FAIRING ASSY, Package gun (see figure 260 for next assy)	Ref	594-
-1	159-61028	. FAIRING ASSY, Package gun nose	1	
	159-61028-7	. . FAIRING SUB-ASSY, Package gun nose	1	
-2	159-61063-5	. . . FASTENER ASSY, Gun package fairing	9	
-3	159-61028-11	. . TUBE ASSY, Package gun nose	1	
-4	AN3--4A	. . BOLT	4	
-5	2W1-16-28-65	. . WASHER, Plain (North American)	4	
	174-61015	. . DOOR ASSY, Package gun nose	1	594-
-6	AN393-31	. . . PIN	1	594-
-7	AN960D1?	. . . WASHER	1	594-
-8	174-61016	. . . SPRING, Package gun nose door	1	594-
-9	174-61017	. . . HINGE, Package gun nose door	1	594-
-10	174-61018	. . . DOOR, Package gun nose	1	594-
-11	MAS221-8	. SCREW, Brazier head Phillips recess alloy steel 10-32	20	
-12	AN365-832	. NUT	2	
-13	AN515-8R4	. SCREW	2	
-14	AN960-8	. WASHER	2	
-15	159-61065-13	. FILLET ASSY, Package gun fairing forward	1	
-16	159-61065-9	. . STRIP, Package gun fairing fillet rubber	1	
-17	159-61065-11	. FILLET ASSY, Package gun fairing aft	1	
-18	159-61065-7	. . STRIP, Package gun fairing fillet rubber	1	
-19	AN365-1032	. NUT	10	
-20	AN3--4	. BOLT	4	
-21	AN3-5A	. BOLT	2	
-22	AN960-10L	. WASHER	12	
-23	AN960D10L	. WASHER	2	
-24	159-61047	. RETAINER, Package gun forward attaching bolt	2	
-25	159-61010	. BOLT ASSY, Package gun fairing forward attaching	2	
-26	AN365D428	. NUT	2	
-27	AN4--11A	. BOLT, torque to 85-95 inch lbs	2	
-28	AN960--16	. WASHER	2	
-29	159-61003-5	. MOUNT ASSY, Package gun front	1	
-30	AN365--28	. . NUT	1	
-31	159-61053	. . PIN, Package gun front mount shear	1	
-32	AN960--16-16	. . WASHER, Plain (North American	1	
-33	159-61027	. DOOR ASSY, Package gun access	1	--593
-33	159-61027-50	. DOOR ASSY, Package gun access	1	594-
-34	159-61027-9	. . PIN, Package gun access	1	
-35	159-61027-7	. . HINGE, Package gun access (altered from MAS[illegible]-TT28.11	1	
-36	159-61027-5	. . HINGE, Package gun access (altered from MAS[illegible]-LL29.11	1	
-37	159-61063-5	. . FASTENER ASSY, Gun package fairing	9	
-38	AN365D428	. NUT	2	
-39	AN4--10A	. BOLT, torque to 55-75 inch lbs	2	
-40	AN960--16	. WASHER	4	
-41	AN365-1032	. NUT	4	
-42	AN3--4A	. BOLT	4	
-43	AN960-10L	. WASHER	4	
-44	159-61052	. RETAINER, Package gun rear attaching bolt	2	
-45	159-61054	. BOLT ASSY, Package gun fairing rear attaching	2	
-46	159-61004	. MOUNT ASSY, Package gun rear complete	1	
-47	AN510A10-6	. . SCREW	2	
-48	AN960-10L	. . WASHER	2	
-49	159-61036	. . LOCK, .60 caliber gun rear mount adjustment post	1	
-50	RLA124SH11	. . RING, Lock two piece insert (Rosan)	1	
-51	RZA10020	. . INSERT ASSY, .60 caliber gun rear mount (Rosan)	1	
-52	159-61051	. . MOUNT, Package gun rear	1	
-53	159-61002	. FAIRING ASSY, Package gun tail	1	
-54	159-61063-3	. . FASTENER ASSEMBLY, Gun package fairing	4	
-55	159-61016	. DOOR ASSY, Package gun ejected link and case access	2	
-56	AN283-2-725	. . PIN	1	
-57	159-61018-7	. . HINGE, Package gun ejected link and case access (altered from AN257XP4-750)	1	
-58	159-61018-5	. . HINGE, Package gun ejected link and case access (altered from AN257XP4-750)	1	
-59	159-61018-3	. . DOOR, Package gun ejected link and case access	1	

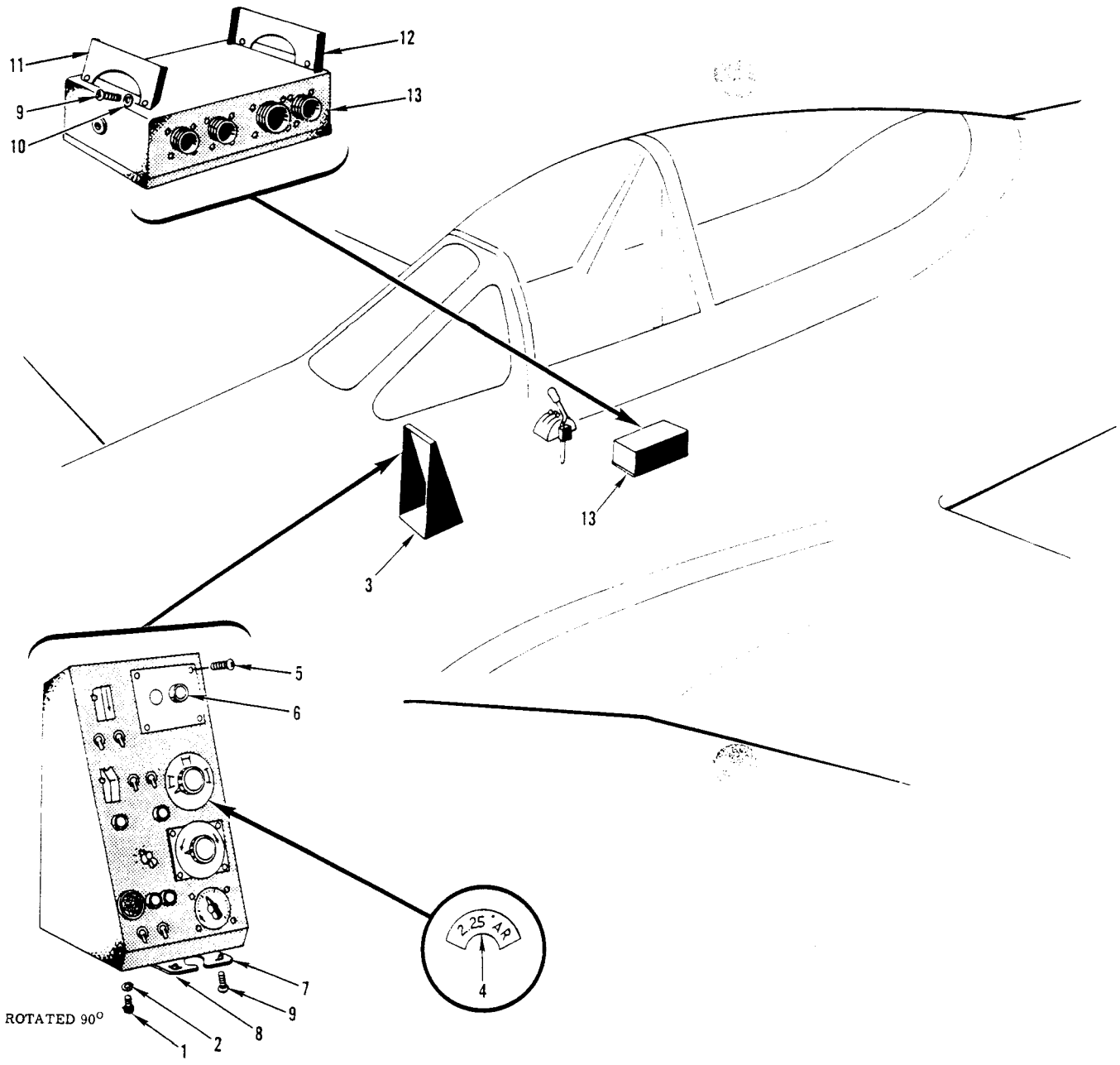


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FIGURE 262 - ARMAMENT CONTROL PANEL

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
262		ARMAMENT CONTROL PANEL		
	159-89001-10	. KIT, Armament control panel (see fig. 254 for next assembly).	Ref	4-593
-1	AN520-10R10	. . SCREW	4	4-593
-2	AN960D10	. . WASHER	4	4-593
-3	159-54130	. . PANEL ASSEMBLY, Electrical armament control (see figure 263 for detail breakdown)	1	4-593
-4	159-54387	. . DECAL, Electrical rocket setting assembly	1	4-593
-5	AN515-8R7	. . SCREW	4	4-593
-6	No Number	. . CONTROL, Projectile release type A3 (Spec. 24975) (GFAE)	1	4-593
-7	159-5-187-1	. . FAIRLEAD ASSY, Elec armament control panel wiring LH	1	4-593
-8	159-54187-2	. . FAIRLEAD ASSY, Elec armament control panel wiring RH	1	4-593
-9	AN515-8R8	. . SCREW	12	4-593
-10	AN960D8	. . WASHER	2	4-593
-11	159-54300	. . BRACKET, Armament relay box forward mounting	1	4-593
-12	159-54306	. . BRACKET, Electrical armament relay box aft mounting	1	4-593
-13	159-54075	. . BOX ASSEMBLY, Electrical armament relay complete (see figure 266 for detail breakdown)	1	4-593

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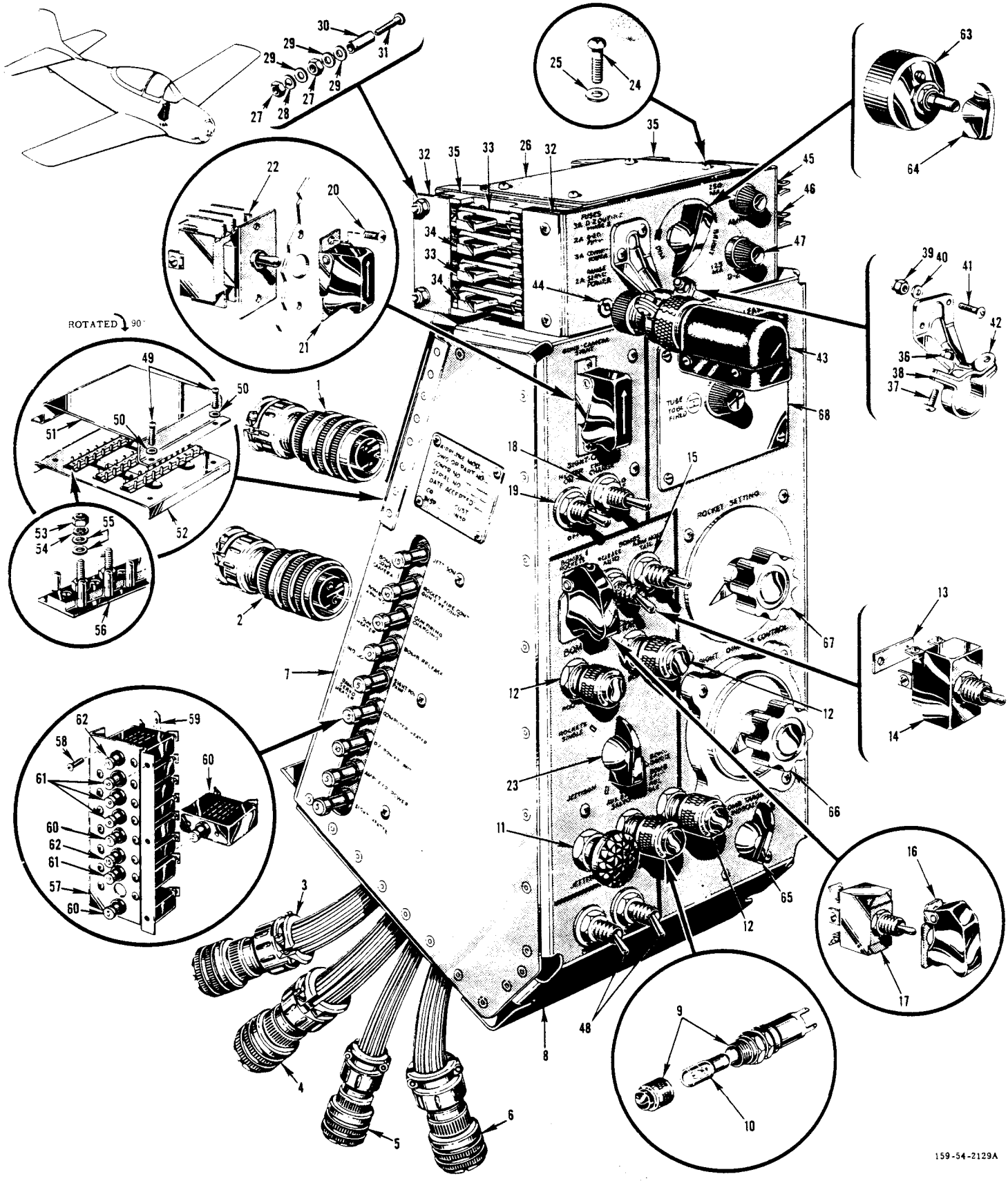

FIGURE 263 - ELECTRICAL ARMAMENT CONTROL PANEL ASSEMBLY

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FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
263	159-54190	PANEL ASSEMBLY, Electrical armament control (see figure 262 for next assembl.)	Ref	--593
-1	AN3106-18-8S	. PLUG (Rocket setting)	1	--593
	AN3057-10	. ADAPTER	1	--593
-2	AN3106-14S2S	. PLUG (Dimmer control)	1	--593
	AN3057-6	. ADAPTER	1	--593
-3	AN3106-32-13S	. PLUG	1	--593
	AN3057-20	. ADAPTER	1	--593
-4	AN3106-24-11S	. PLUG	1	--593
	AN3057-16	. ADAPTER	1	--593
-5	AN3106-20-29S	. PLUG	1	--593
	AN3057-12	. ADAPTER	1	--593
-6	AN3106-28-12S	. PLUG	1	--593
	AN3057-16	. ADAPTER	1	--593
-7	159-54191	. PANEL ASSY, Elec armament control forward cockpit complete.	1	--593
-8	159-54193	. . SUPPORT ASSEMBLY, Electrical armament control forward cockpit (less equipment)	1	--593
-9	AN3157--	. . LIGHT ASSEMBLY, Press to test indicator.	1	--593
-10	AN3121-313	. . LAMP	1	--593
-11	AN3157-9	. . LIGHT ASSEMBLY, Press to test indicator	1	--593
	AN3121-313	. . LAMP	1	--593
-12	AN3157-3	. . LIGHT ASSEMBLY, Press to test indicator	3	--593
	AN3121-313	. . LAMP	3	--593
-13	2B106-7	. . BUS BAR (North American)	1	--593
-14	AN3027-1	. . SWITCH	1	--593
-15	AN3021-3	. . SWITCH	1	--593
-16	159-54195	. . GUARD, One hole mounting switch (altered from AN3028-4)	1	--593
-17	AN3021-9	. . SWITCH	1	--593
-18	AN3021-7	. . SWITCH	1	--593
-19	AN3021-8	. . SWITCH	1	--593
-20	AN3155-25-200	. . RHEOSTAT	1	--593
-21	159-54189	. . GUARD, Switch (Cutler-Hammer)	1	--593
-22	AN3020-1	. . SWITCH	1	--593
-23	159121	. . SWITCH, Twelve position four section rotary selector (Carma Mfg. No. (North American No. 159-25-600)	1	--593
-24	AN515-6R6	. . SCREW	4	--593
-25	AN960-6L	. . WASHER	4	--593
-26	159-54188	. . COVER, Electrical armament fuse panel	1	--593
-27	AN315-6	. . NUT	4	--593
-28	AN960-6L	. . WASHER	4	--593
-29	AN960D6L	. . WASHER	6	--593
-30	2B106-22	. . SPACER, Bolt (North American)	2	--593
-31	AN515-6R18	. . SCREW	2	--593
-32	159-54268	. . INSULATOR, Electrical armament panel fuse	2	--593
-33	M49A6549-1-3	. . FUSE, Enclosed mech indicating aircraft (Burndy Engineering type FIL3 may be substituted)	3	--593
-34	M49A6549-1-2	. . FUSE, Enclosed mech indicating aircraft (Burndy Engineering type FIL2 may be substituted)	3	--593
-35	M96548-3	. . FUSEHOLDER, Block two-pole limiter(Burndy Engineering No. 300304 type FQH1 may be suostituted)	3	--593
-36	AN365-440	. . NUT	2	--593
-37	AN515-4R6	. . SCREW	2	--593
-38	A4251	. . LAMP, Bkt Ultra-violet cockpit light (2 watt)(Grimes)	1	--593
-39	AN365-632	. . NUT	2	--593
-40	AN960D6L	. . WASHER	2	--593
-41	AN515-6R5	. . SCREW	2	--593
-42	159-54266	. . BRACKET, Electrical armament panel light	1	--593
-43	A4255A7	. . LIGHT ASSY, Inst (red)(less lamp, shield, bracket (Grimes)	1	--593
	AN3131-303	. . LAMP	1	--593
-44	AN931-3-5	. . GROMMET	1	--593
-45	No Number	. . FUSE, 125 MA -250V (Type AGC) (Bussman)	2	--593
-46	No Number	. . FUSE, 250 MA -250V (Type AGC) (Bussman)	2	--593
-47	No Number	. . FUSEHOLDER, Type HKP (Bussman)	2	--593
-48	AN3021-3	. . SWITCH	2	--593
-49	AN520-10R7	. . SCREW	4	--593
-50	AN960-10L	. . WASHER	4	--593
-51	159-54286	. . COVER, Elec armament control panel terminal strip assy	1	--593
-52	159-54287	. . TERMINAL STRIP ASSY, Electric armament control panel	1	--593
-53	AN340-6	. . . NUT	21	--593
-54	AN936A6	. . . WASHER	21	--593
-55	AN960-6	. . . WASHER	42	--593
-56	MAS45-6-7	. . . PANEL ASSEMBLY, Electrical connector	3	--593
-57	159-54189	. . BRACKET ASSY, Elec armament control panel circuit breaker.	1	--593
-58	AN515-6R5	. . . SCREW	16	--593
-59	2B106-8	. . . BUS BAR (North American).	1	--593
-60	AN3161P5	. . . CIRCUIT BREAKER	3	--593
-61	AN3161P10	. . . CIRCUIT BREAKER	4	--593
-62	AN3161P15	. . . CIRCUIT BREAKER	2	--593
-63	AN3155-25-200	. . RHEOSTAT	1	--593
-64	AN3220-2	. . KNOB	1	--593
-65	665088	TARGET & WIND SCALE ASSY, Bomb (Sperry Gyroscope) (see fig. 262.	Ref	
-66	665087	CONTROL ASSEMBLY, Dimmer (Sperry Gyroscope) (see figure 262)	Ref	
-67	665097	ROCKET SETTING ASSEMBLY (Sperry Gyroscope) (see figure 262).	Ref	
-68	No Number	CONTROL, Projectile release type A3 (Spec 24975) (see fig. 262).	Ref	

FIGURE 264 DELETED

ARMAMENT KIT (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
264		GUNSIGHT REFLECTOR AND DRUM CONTROLS		
-1	159-61607	. GLASS ASSEMBLY, Gunsight reflector (see figure 262. . . . . for next assembly)	Ref	--533
-2	5B1735A	. . BOLT, Corrosive resistant (North American)	4	--533
-3	159-61622-1	. . ANGLE, Gunsight reflector glass support LH	1	--533
	159-61622-2	. . ANGLE, Gunsight reflector glass support RH	1	--533
-4	AN365B428	. . NUT	4	--533
-5	159-61624-3	. . TIE ROD, Gunsight reflector glass frame	1	--533
	159-61624-5	. . TIE ROD, Gunsight reflector glass frame	1	--533
-6	159-61623-3	. . SPACER, Gunsight reflector glass frame	1	--533
	159-61623-5	. . SPACER, Gunsight reflector glass frame	1	--533
-7	159-61621-1	. . FRAME ASSY, Gunsight reflector glass side LH	1	--533
	159-61621-2	. . FRAME ASSY, Gunsight reflector glass side RH	1	--533
-8	159-61625	. . CUSHION, Gunsight reflector glass.	2	--533
-9	159-61620	. . GLASS, Gunsight reflector	1	--533
-10	159-74034	. CONTROL ASSEMBLY, A-1B Gunsight wind scale (see figure 257. . . . for next assembly)	Ref	--533
-11	AN365-632	. . NUT.	1	--533
-12	AN515-632R9	. . SCREW.	1	--533
-13	159-74110	. . BRACKET ASSEMBLY, Fuselage sta 85 A-1B gunsight computer . . . . control drum	1	--533
-14	MS9-87836	. . . PIN, Pulley guard	1	--533
-15	159-74035-10	. . DRUM AND CABLE ASSY, A-1B gunsight computer controls . . .	1	--533
-16	3B5-6	. . . PIN, Locking (North American	1	--533
-17	159-74025-10	. . . CABLE ASSEMBLY, Bomb wind target computer control . . .	1	--533
-18	AN155-58	. . . . BARREL	1	--533
-19	159-74025-3	. . . . CABLE, Bomb wind target computer control	1	--533
-20	159-74020-3	. . . DRUM ASSEMBLY, Radar gunsight control cable	1	--533
-21	AN364-428	. . . . NUT.	1	--533
-22	AN210-4	. . . . BEARING.	1	--533
-23	AN365-632	. . . . NUT.	1	--533
-24	AN515-632R9	. . . . SCREW.	1	--533
-25	301	. . . . DRUM, Cable (North American)	1	--533
-26	MS21-62	. . . . RING, External retainer.	1	--533
-27	159-74023	. . . . COUPLING ASSY, Radar gunsight control cable drum . .	1	--533
	159-74020-20	. . . . DRUM SUB-ASSY, Radar gunsight control cable. . . .	1	--533
-28	159-74021-5	. . . . . SHAFT, Radar gunsight control cable drum. . . .	1	--533
-29	AN210-4	. . . . . BEARING	1	--533
-30	159-74022	. . . . . FLANGE, Radar gunsight cable drum mounting. . . .	1	--533
-31	159-74017	. BRACKET ASSEMBLY, Radar gunsight drum control mounting. . . . (see figure 257 for next assembly)	Ref	--533
-32	AN365-632	. . NUT.	1	--533
-33	AN515-632R6	. . SCREW.	1	--533
-34	159-74019	. . BRACKET, Radar gunsight control drum forward	1	--533
-34A	159-74018	. . BRACKET, Radar gunsight control drum aft	1	--533
-35	159-74035	. . DRUM AND CABLE ASSY, A-1B gunsight computer control . . .	1	--533
-36	3B5-6	. . . PIN, Locking (North American)	1	--533
-37	159-74025	. . . CABLE ASSEMBLY, Bomb wind target computer control . . .	1	--533
	159-74020	. . . DRUM ASSEMBLY, Radar gunsight control cable	1	--533
-38	AN364-428	. . . . NUT.	1	--533
-39	AN210-4	. . . . BEARING.	1	--533
-40	AN365-632	. . . . NUT.	1	--533
-41	AN515-632R9	. . . . SCREW.	1	--533
-42	301	. . . . DRUM, Cable (North American)	1	--533
-43	MS21-62	. . . . RING, External retainer.	1	--533
-44	159-74023	. . . . COUPLING ASSY, Radar gunsight control cable drum . .	1	--533
	159-74020-10	. . . . DRUM SUB-ASSY, Radar gunsight control cable. . . .	1	--533
-45	159-74021-3	. . . . . SHAFT, Radar gunsight control cable drum. . . .	1	--533
-46	AN210-4	. . . . . BEARING	1	--533
-47	159-74022	. . . . . FLANGE, Radar gunsight cable drum mounting. . . .	1	--533
-48	159-89001-50	. KIT, Sight line level indicator (see figure 254 for next. . . assembly)	Ref	--533
-49	B1356	. . BRACKET ASSEMBLY, Sight line level indicator	1	--533
-50	A1356	. . . SPRING, Sight line level indicator retaining	1	--533
-51	954086	COMPUTER ASSEMBLY, (Sperry Gyroscope) (GFAE) (figure 257). . . .	Ref	

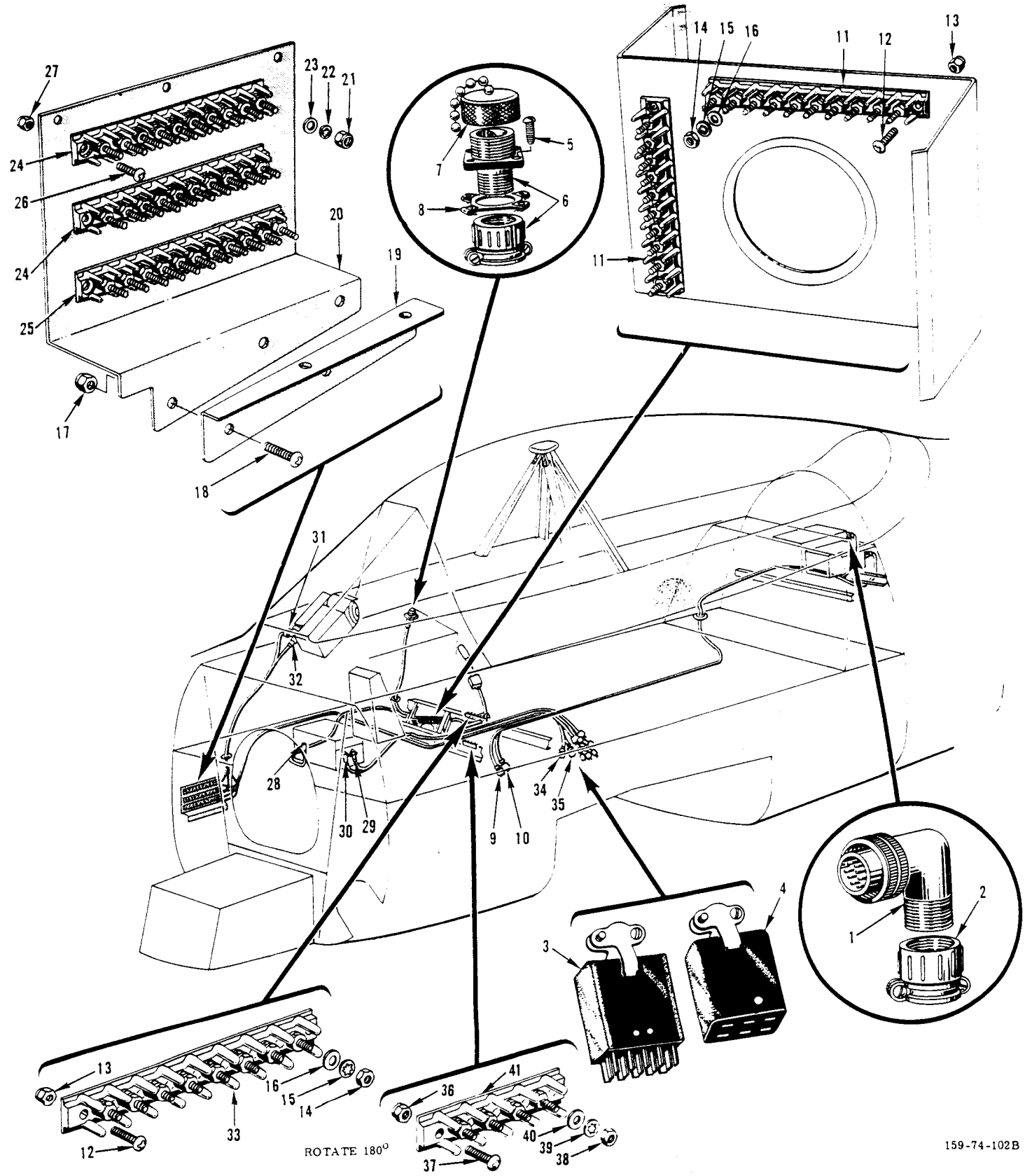

FIGURE 265 - A1B GUNSIGHT RADAR WIRING

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FIGURE 365 DELETED

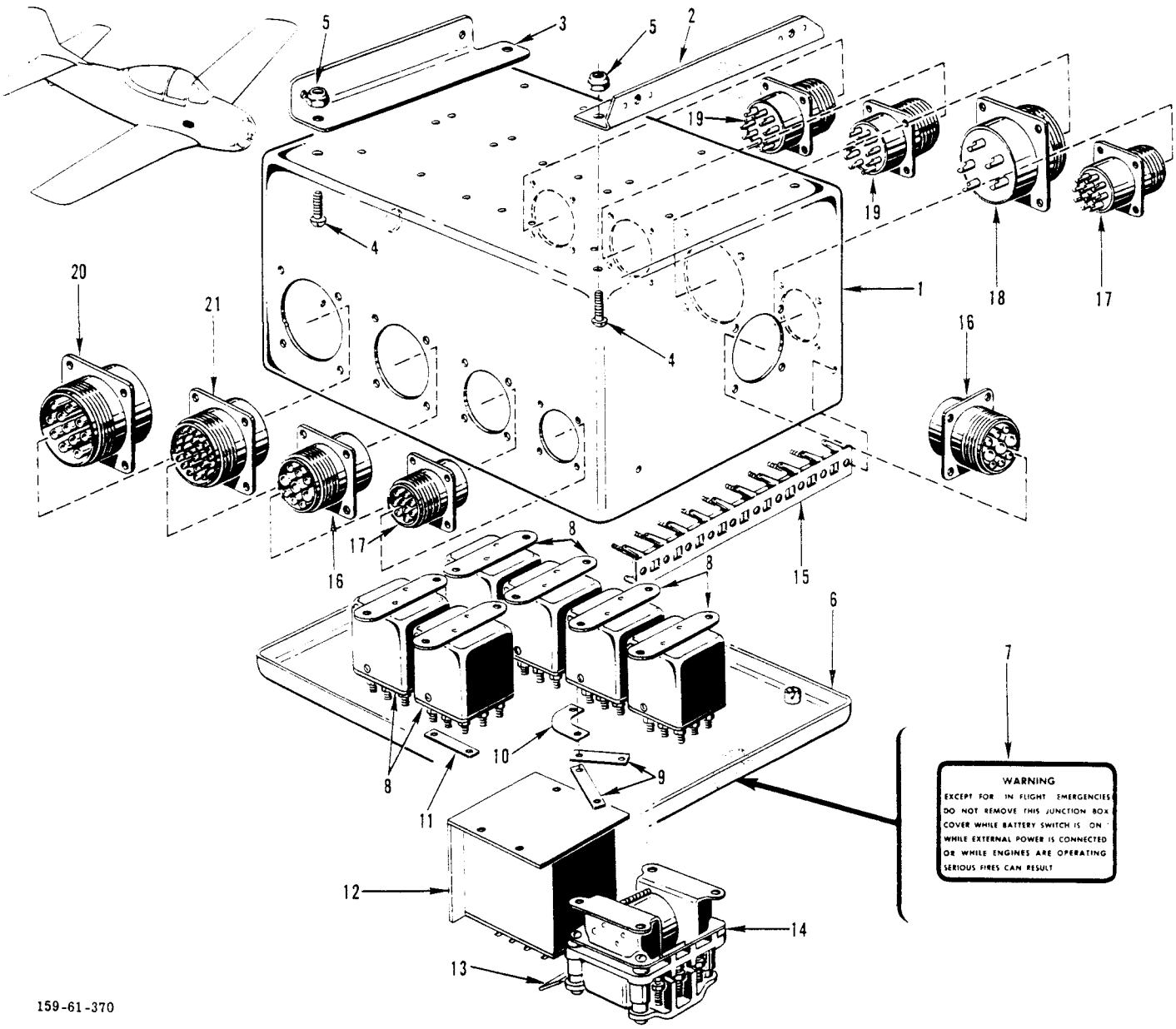

FIGURE 266 - ARMAMENT ELECTRICAL RELAY BOX ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
266	159-54075	BOX ASSEMBLY, Electrical armament relay (see figure 262 for next assembly)	Ref	4-593
-1	159-54076	. BOX, Electrical armament relay	1	4-593
-2	159-54299	. ANGLE, Armament relay box forward mounting	1	4-593
-3	159-54307	. ANGLE, Electrical armament relay box aft mounting	1	4-593
-4	AN515-8R8	. SCREW	4	4-593
-5	AN365-832	. NUT	4	4-593
-6	159-54077	. COVER, Electrical armament relay box	1	4-593
-7	151-54094	. . DECAL, Junction box cover warning	1	4-593
-8	237EAU	. RELAY (Leach Relay)	6	4-593
-9	2B1B2-2	. BAR, Bus (North American)	2	4-593
-10	159-54108	. BUS BAR, Electrical relay	1	4-593
-11	2B1B10-2	. BAR, Bus (North American)	1	4-593
-12	AN3316-1	. RELAY	1	4-593
-13	2B1B1-2	. BAR, Bus (North American)	1	4-593
-14	9565H2	. RELAY (Cutler-Hammer)	1	4-593
-15	NAS45-6-9	. PANEL ASSEMBLY, Electrical connector	2	4-593
-16	AN3102-24-11P	. RECEPTACLE	2	4-593
-17	AN3102-20-29P	. RECEPTACLE	2	4-593
-18	AN3102-32-13S	. RECEPTACLE	1	4-593
-19	AN3102-22-14S	. RECEPTACLE	2	4-593
-20	AN3102-32-13P	. RECPETACLE	1	4-593
-21	AN3102-28-12P	. RECEPTACLE	1	4-593

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ARMAMENT KIT (Cont)

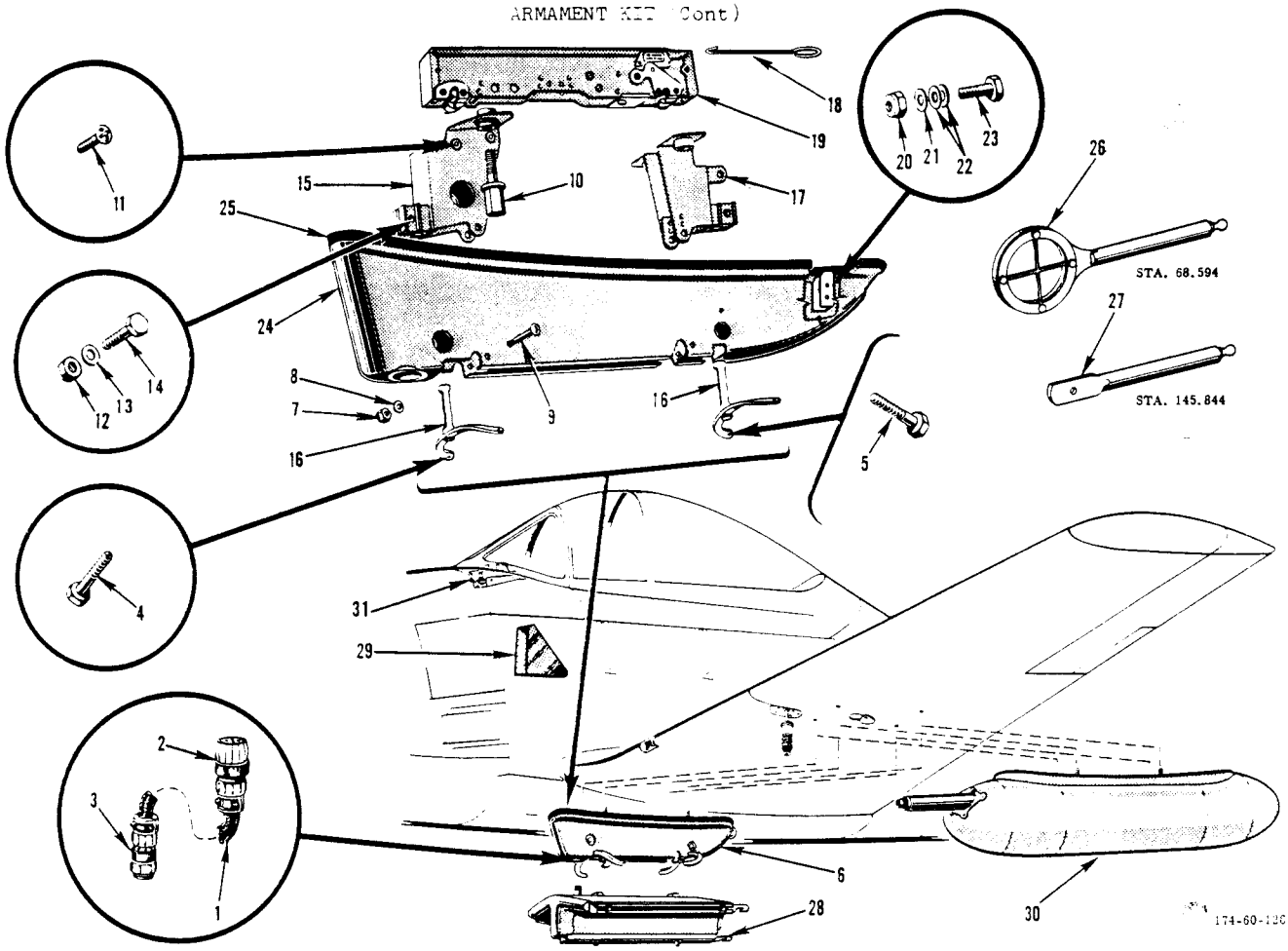

FIGURE 266A - ARMAMENT KIT (AIRPLANES 594-)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
266A	174-89131	KIT, Armament	1	594-
-1	159-54017	. ADAPTER ASSY, Electric bomb bannister (used only with type T1 practice bomb container)	2	594-
-2	AN3107-14S2P	. . PLUG	1	594-
	AN3057-6	. . ADAPTER	1	594-
-3	AN3106-18-12S	. . PLUG	1	594-
	AN3057-10	. . ADAPTER	1	594-
-4	AN4-7A	. BOLT	2	594-
-5	AN4-12A	. BOLT	2	594-
-6	159-63002	. RACK ASSEMBLY, Bomb complete	2	594-
-7	AN320-5	. . NUT	2	594-
-8	AN950D516	. . WASHER	2	594-
-9	AN25-34	. . BOLT	2	594-
-10	159-63014	. . BOLT, Bomb rack attaching	4	594-
-11	AN520-10R8	. . SCREW	4	594-
-12	AN365-624	. . NUT	2	594-
-13	AN960-616	. . WASHER	2	594-
-14	AN6-13A	. . BOLT	2	594-
-15	159-63003	. . SUPPORT ASSY, Bomb rack front	1	594-
-16	159-63008	. . BRACE ASSY, Bomb rack sway	2	594-
-17	159-63004	. . SUPPORT ASSY, Bomb rack rear	1	594-
-18	159-63012	. . RING, Bomb rack cooking	1	594-
-19	45025670	. . RACK ASSY, Bomb electrically operated type S2 (GFAE)	1	594-
-20	AN365-1032	. . NUT	1	594-
-21	AN960D10	. . WASHER	1	594-
-22	2W1P14-20-94	. . WASHER (North American	2	594-
-23	AN3-5	. . BOLT	1	594-
-24	159-63009	. . FAIRING ASSY, Bomb rack	1	594-
-25	159-63009-9	. . . STRIP, Rubber	1	594-
	174-89145	. KIT, Armament boresight fixture	1	594-
-26	T457	. . RINGSIGHT ASSY, Fixed gun boresight target aligning	1	594-
	P116-447-10	. . . STUD (Tinnerman)	1	594-
-27	T456	. . PEEPSIGHT ASSY, Fixed gun boresight target aligning	1	594-
	P116-447-10	. . . STUD (Tinnerman)	1	594-
-28	159-68002-10	. ROCKET LAUNCHER ASSY, (use 159-68002 until exh)(see fig. 256).	2	594-
-29	174-89131-10	. KIT, Armament control panel (see fig. 266B for breakdown)	1	594-
-30	174-89131-20	. KIT, Gun package (see fig. 266C for detail breakdown)	2	594-
-31	174-89131-30	. KIT, Gun sight & camera (see fig. 266D for detail breakdown).	1	594-
	NA52-1142A	. INSTALLATION REPORT	1	594-

ARMAMENT KIT (Cont)

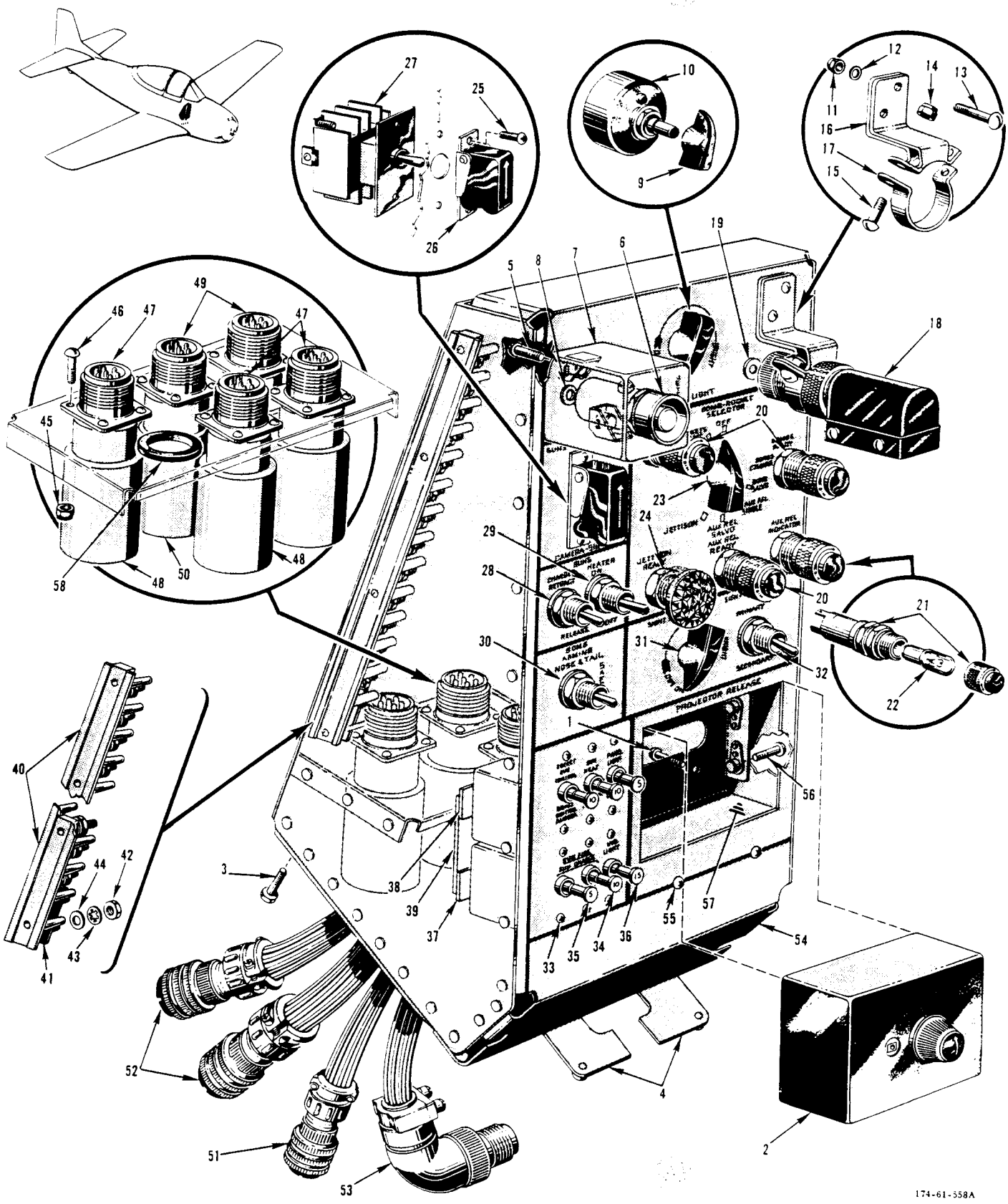

FIGURE 266B - ARMAMENT CONTROL PANEL KIT

ARMAMENT KIT (cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
266B	174-69131-10		KIT, Armament control panel (see Fig. 266A for next assembly)	Ref	594-
-1	AN500-8-7		SCREW	4	594-
-2	No Number		CONTROL, Projectile release type A3 (Spec 24975) (JFAE)	1	594-
-3	AN3-4		BOLT	2	594-
	AN3-5A		BOLT	2	594-
--	169-84187-1		FAIRLEAD ASSY, Elec armament control panel wiring	2	594-
--	174-84080		PANEL ASSY, Elec armament control fwd cockpit complete	1	594-
-5	AN515-8R7		SCREW	2	594-
-6	A190180CB		SWITCH, Limit type (Hetherington, Inc)	1	594-
-7	174-84198		BRACKET ASSY, Bomb rocket jettison switch fwd cockpit (altered from Moorlee No. MT1204-040-210)	1	594-
-8	AN931-7		GROMMET	1	594-
-9	AN322-2		KNOB	1	594-
-10	AN3155-25-200		RHEOSTAT	1	594-
-11	AN365-632		NUT	2	594-
-12	AN960C6L		WASHER	2	594-
-13	AN515-6R6		SCREW	2	594-
-14	AN365-440		NUT	2	594-
-15	AN515-4R6		SCREW	2	594-
-16	169-84-266		BRACKET, Elec armament panel light (altered from Grimes No. 64731)	1	594-
-17	A4251-1		BRACKET (Grimes)	1	594-
-18	A4255-7		LIGHT ASSY, Instrument red (less lamp, shield, bracket (Grimes)	1	594-
	AN3131-303		LAMP	1	594-
-19	AN931-3-5		GROMMET	1	594-
-20	AN3157-3		LIGHT ASSY, Press to test indicator	1	594-
	AN3121-313		LAMP	1	594-
-21	AN3157-4		LIGHT ASSEMBLY, Press to test indicator	1	594-
-22	AN3121-313		LAMP	1	594-
-23	21-121		SWITCH, Twelve position four section rotary selector (Jarma Mfg Co North American No. 161-284-20B)	1	594-
-24	AN3157-3		LIGHT ASSEMBLY, Press to test indicator	1	594-
	AN3121-313		LAMP	1	594-
-25	AN515-8R6		SCREW	2	594-
-26	3910X689		GUARD, Switch (Butler-Hammer	1	594-
-27	AN3022-1		SWITCH	1	594-
-28	AN3021-1		SWITCH	1	594-
-29	AN3021-2		SWITCH	1	594-
-30	AN3027-1		SWITCH	1	594-
-31	AN322-2		KNOB	1	594-
-32	AN3155-50-150		RHEOSTAT	1	594-
-33	AN3021-3		SWITCH	1	594-
-34	AN507-632R8		SCREW	12	594-
-35	AN3161P10		CIRCUIT BREAKER	2	594-
-36	AN3161P5		CIRCUIT BREAKER	2	594-
-37	AN3161P15		CIRCUIT BREAKER	1	594-
-38	NAS44-10-2		BUS BAR	1	594-
-39	NAS44-10-3		BUS BAR	1	594-
-40	2B2012		BUS BAR (North American)	1	594-
-41	AN3436-2-18		TERMINAL BLOCK ASSEMBLY	2	594-
-42	AN3433-2-2		BUS (RH only)	2	594-
-43	AN341-6		NUT	30	594-
-43	AN936A6B		WASHER	36	594-
-44	AN961-6		WASHER	36	594-
-44	AN365-440		NUT	20	594-
-45	AN515-4R6		SCREW	20	594-
-46	AN3102-20-7S		RECEPTACLE	3	594-
-46	AN3306-1		RELAY	3	594-
-47	2062-84		RECEPTACLE (Cannon)	2	594-
-51	AN3308-1		RELAY	2	594-
	174-84023		WIRING DIAGRAM, Armament pedestal electric	NP	594-
-51	AN3101-24-11P		. RECEPTACLE	1	594-
	AN3057-16A		. ADAPTER	1	594-
-52	AN3101-22-14S		. RECEPTACLE (right and left wing)	2	594-
	AN3057-12A		. ADAPTER	2	594-
-53	115-6		. CONNECTOR, Right angle (Burton Elec) camera plug)	1	594-
-54	174-84193		PANEL ASSY, Elec armament control forward cockpit	1	594-
-55	AN515-8R7		. SCREW	3	594-
-56	AN515-8R6		. SCREW	2	594-
-57	174-84195		. BRACKET ASSEMBLY, Elec projector release control	1	594-
-58	295134-20A		GROMMET (United-Carr)	1	594-

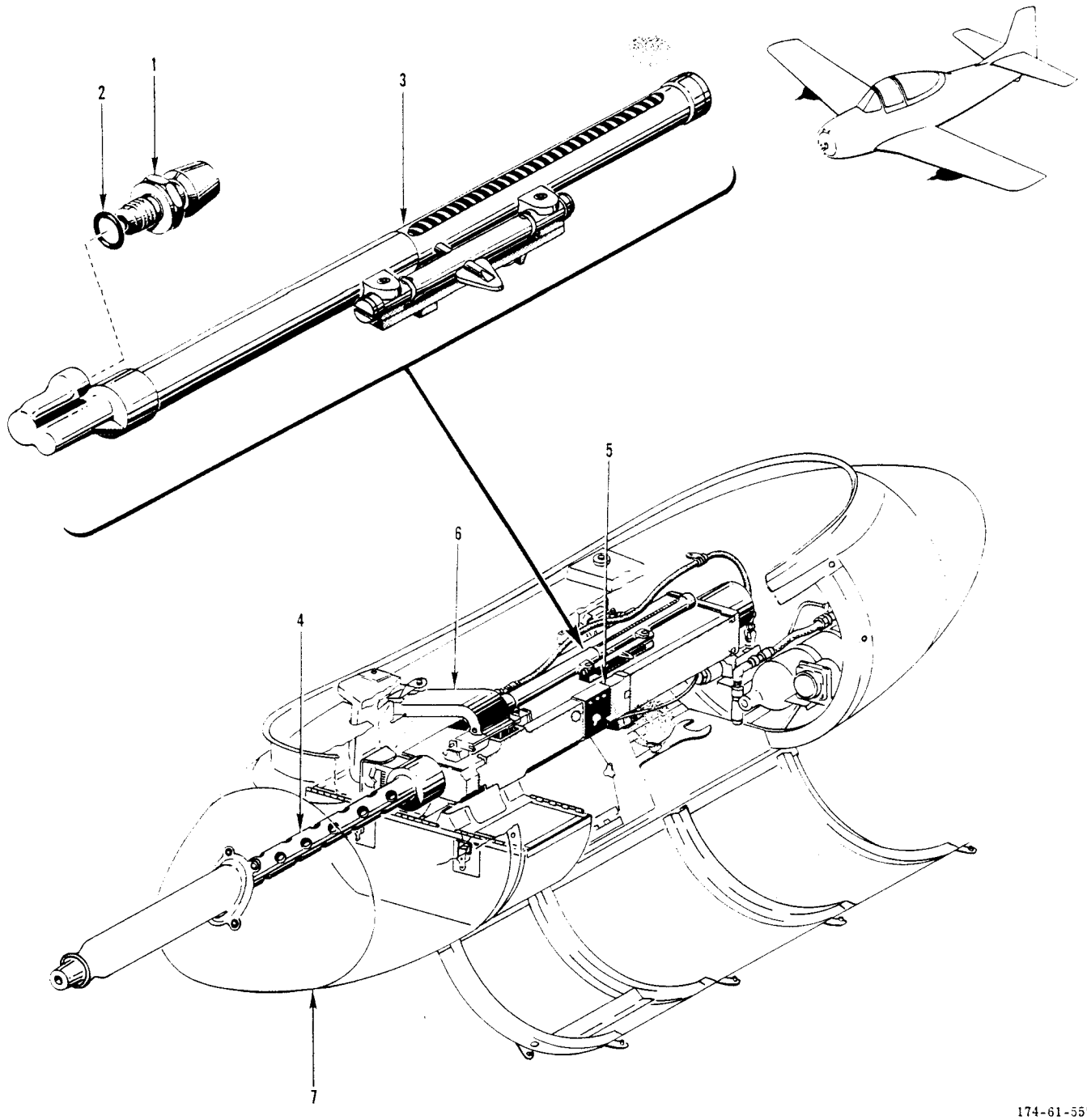

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FIGURE 266C - GUN PACKAGE KIT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
266C	174-89131-20	KIT, Gun package (see figure 266A for next assembly)	Ref	594-
-1	801485	. OUTLET ASSEMBLY, Quick disconnect (Walter Kidde)	1	594-
-2	AN6290-3	. GASKET	1	594-
-3	890100	. GUN CHARGER, Hold back (type B1) (Walter Kidde) (GFAE) . . .	1	594-
-4	No Number	. GUN, Machine caliber .50 (type M3) (AAF Dwg No. H46R4353) . . (GFAE)	1	594-
-5	No Number	. HEATER ASSY, Elec gun (type J4) (Spec 93-24946) (AAF Dwg No. 44B25259) (GFAE) . .	1	594-
-6	159-61006	. CHUTE ASSY, Package gun link ejection	1	594-
-7	174-61001	. GUN PACKAGE ASSEMBLY (see figure 260 for detail breakdown) . .	1	594-

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ARMAMENT KIT (Cont

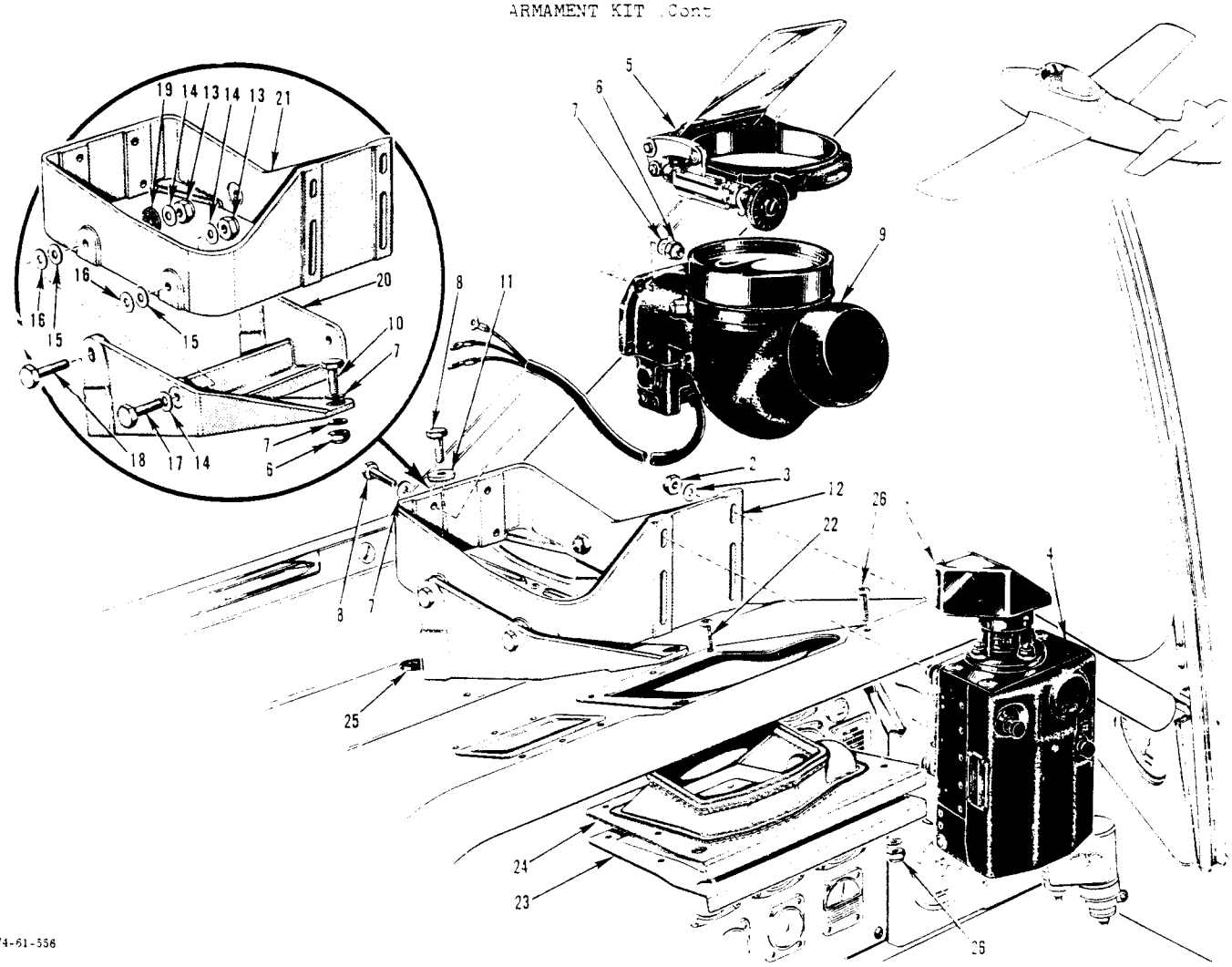

FIGURE 266D - GUNSIGHT AND CAMERA KIT

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
266D	174-89131-30	*1	KIT, Gunsight and camera (see figure 266A for next assy	Ref	594-
	174-89173	*1	KIT, Gunsight and gun camera	1	594-
-1	No Number	.	ERECTOR HEAD ASSY, (GFAE) (AERNC 74E650) (screws furnished with assembly	1	594-
-2	AN364-1032	.	NUT	4	594-
-3	2W18-10L	.	WASHER, Flat (North American)	4	594-
-4	No Number	.	CAMERA, Gun type AN-N6 (GFAE) (AERNC 74C2250)	1	594-
-5	No Number	.	HEAD ASSY, Pilot's bombsight type A3 (GFAE) (44G12319	1	594-
-6	AN365-428	.	NUT	3	594-
-7	2W18-416	.	WASHER, Flat (North American	10	594-
-8	AN4-10A	.	BOLT	3	594-
-9	No Number	.	SIGHT ASSY, Gun type N91 (GFAE	1	594-
-10	AN4-7A	.	BOLT	1	594-
-11	2W13-4	.	WASHER, Serrated (North American)	2	594-
-12	174-61606	.	SUPPORT ASSY, N91 sight and AN-N6 G.S.A.P. camera	1	594-
-13	AN365-428	. .	NUT	4	594-
-14	AN960D416	. .	WASHER	6	594-
-15	2W1AL17-32-16	. .	WASHER, Plain (North American)	AR	594-
-16	2W1AL17-32-12	. .	WASHER, Plain (North American)	AR	594-
-17	AN4-10A	. .	BOLT	2	594-
-18	AN4-11A	. .	BOLT	2	594-
-19	2W13-4	. .	WASHER, Serrated (North American)	2	594-
-20	174-61607	. .	BASE, N91 sight and AN-N6 G.S.A.P. camera support	1	594-
-21	174-61608	. .	MOUNT, N91 sight and AN-N6 G.S.A.P. camera	1	594-
-22	AN507-632-5	.	SCREW	3	594-
-23	174-66008	.	RETAINER, G.S.A.P. camera to shroud light seal	1	594-
-24	174-66007	.	SEAL ASSY, G.S.A.P. camera to shroud light	1	594-
-25	AN931-10-14	.	GROMMET	1	594-
	174-54092	.	PANEL ASSY, Gunsight and gun camera elec control complete (used on 174-89173 only) (see fig. 266F for breakdown)	1	594-
-26	T456	.	PEEPSIGHT ASSY, Fixed gun boresight target aligning (on 174-89173 only)	1	594-
-27	T457	.	RINGSIGHT ASSY, Fixed gun boresight target aligning (on 174-89173 only)	1	594-
-28	Nuts, washers and 3 screws are retained from attaching cover plate to shroud (see fig. 82)				

*1 174-89131-30 and 174-89173 are to be used as alternates.

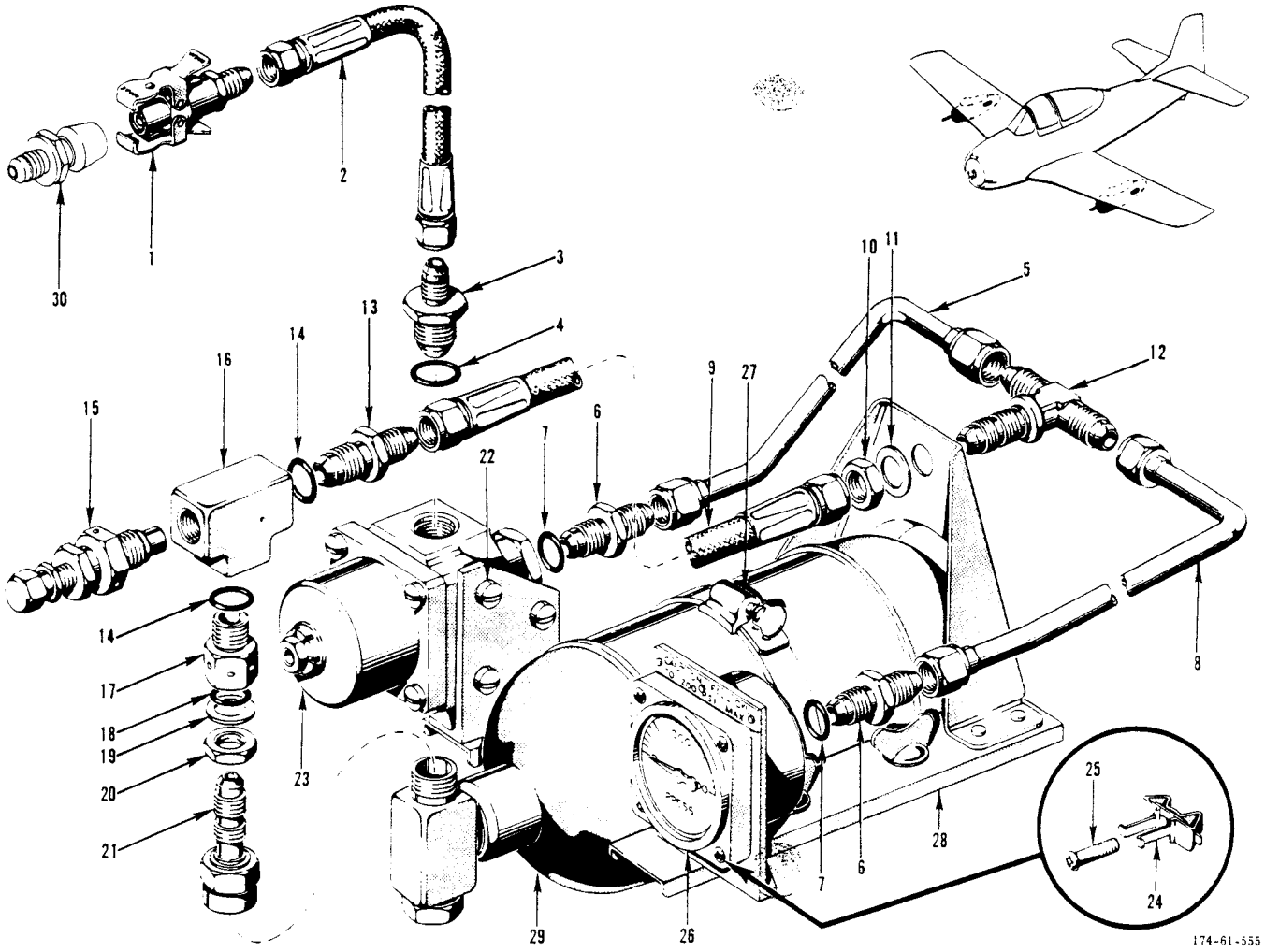

FIGURE 266E - PACKAGE GUN CHARGER CYLINDER ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
266E	174-61066	CYLINDER ASSY, Package gun charger (see fig. 260 for next assy)	Ref	594-
-1	840460	. INLET ASSY, Quick disconnect straight type 3/16" AN tube connection (Walter Kidde)	1	594-
-2	AN6271-3-12 1-2	. HOSE ASSEMBLY	1	594-
-3	AN919-5D	. REDUCER	1	594-
-4	AN6290-6	. GASKET	1	594-
-5	174-61068-5	. LINE ASSY, Gun charger air from tee on 159-61067-50 support to air pressure regulator	1	594-
-6	AN815-4D	. UNION	2	594-
-7	AN6290-4	. GASKET	2	594-
-8	174-61068-3	. LINE ASSY, Gun charger air from tee on 159-61067-50 support to air pressure gage	1	594-
-9	AN6271-4-7	. HOSE ASSEMBLY		594-
-10	AN924-4D	. NUT	1	594-
-11	AN960D716	. WASHER	1	594-
-12	AN834-4D	. TEE	1	594-
-13	AN919-3D	. REDUCER	1	594-
-14	AN6290-5	. GASKET	1	594-
-15	AN6287-1	. VALVE, Air high pressure 3/4 nex	2	594-
-16	174-61021	. FITTING, Package gun charging air control	1	594-
-17	AN893-1D	. BUSHING	1	594-
-18	AN6290-4	. GASKET	1	594-
-19	AN6291-4	. RING	1	594-
-20	AN6289D4	. NUT	1	594-
-21	801503	. COUPLING, Special power actuator (Walter Kidde)	1	594-
-22	AN501A416-5	. SCREW	1	594-
-23	124D100-5	. REGULATOR ASSEMBLY, High pressure (Cornelius Co)	3	594-
-24	A8943-632-375	. NUT (Tinnerman)	1	594-
-25	AN515B6-12	. SCREW	4	594-
-26	AN5771T4B	. GAGE, Single 1 7/8 dial pressure (GFAE) (AERNO 61-2350)	4	594-
-27	QS200M6C	. CLAMP ASSEMBLY (Aircraft Standard Parts Co)	1	594-
-28	159-61067-50	. SUPPORT ASSY, Package gun charging control unit	1	594-
-29	870593	. CYLINDER ASSY (Walter Kidde)	1	594-
-30	801485	OUTLET ASSY, Quick disconnect (Walter Kidde) (see figure 266C)	Ref	

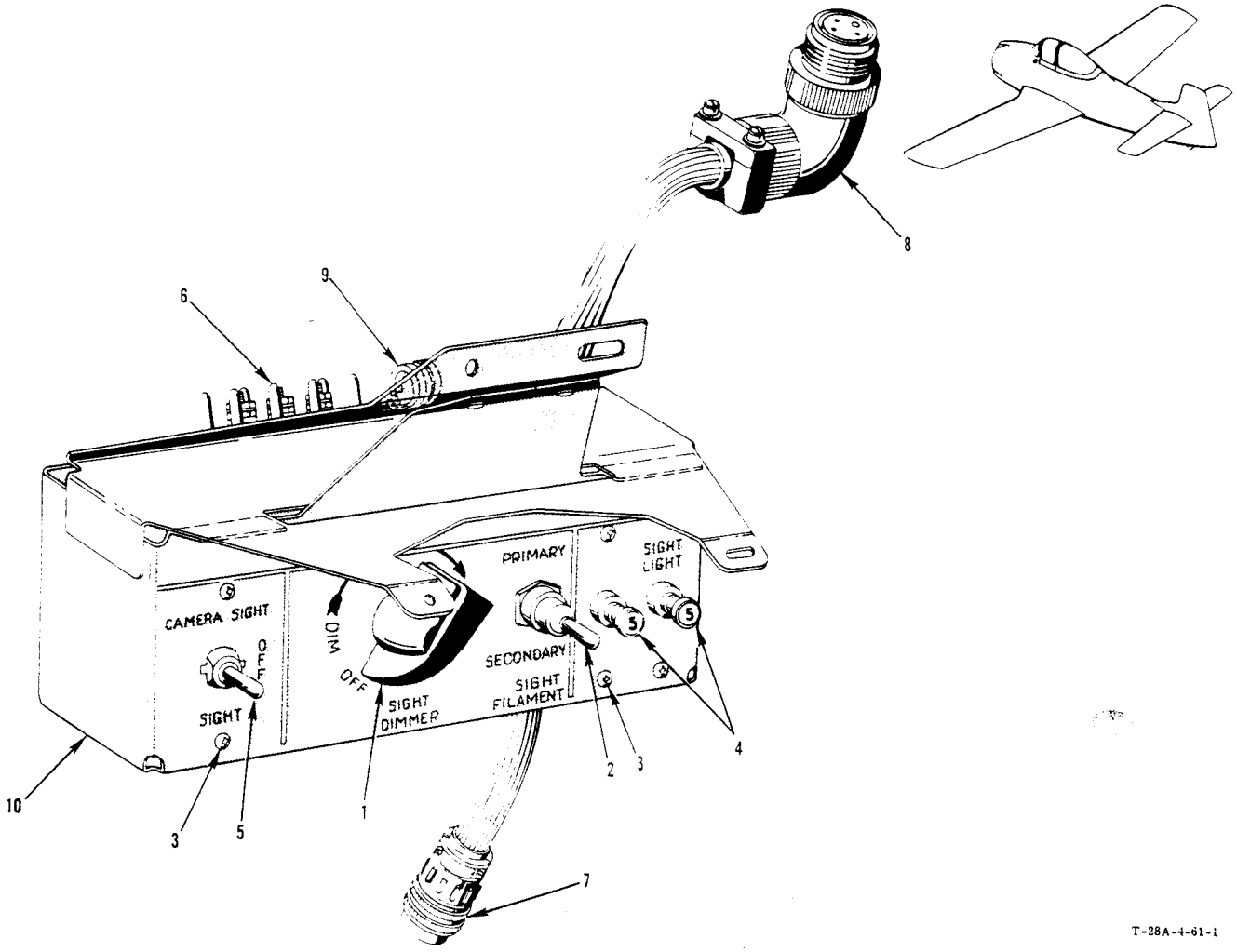

FIGURE 266F - GUNSIGHT AND GUN CAMERA ELECTRICAL CONTROL PANEL ASSEMBLY COMPLETE

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
266F	174-54092	PANEL ASSY, Gunsight and gun camera electrical control complete (see figure 266D for next assembly)	Ref	594-
		ATTACHING PARTS		
	AN515-8R20	SCREW	2	594-
	NAS43-3-49	SPACER, Screw and bolt	2	594-
		---*---		
-1	AN3155-50-150	. RHEOSTAT	1	594-
	AN3220-3	. KNOB	1	594-
-2	AN3021-3	. SWITCH	1	594-
-3	AN515-6R5	. SCREW	6	594-
-4	AN3161P5	. CIRCUIT BREAKER	2	594-
	NAS44-10-2	. BUS BAR	1	594-
-5	AN3023-1	. SWITCH	1	594-
-6	AN3436-2-4	. TERMINAL BLOCK ASSEMBLY	1	594-
	397-4	. COVER, Electrical terminal block (Henry Engineering Co)	1	594-
	174-54024	. WIRING DIAGRAM, Armament control panel	1	594-
-7	AN3101-24-11P	. . RECEPTACLE	1	594-
	AN3057-16A	. . ADAPTER	1	594-
-8	115-0	. . CONNECTOR, Right angle (Burton Elec) (camera plug)	1	594-
-9	AN742D8C	. CLAMP	1	594-
	AN515-8R7	. SCREW	1	594-
	AN961-8	. WASHER	1	594-
	AN365-832	. NUT	1	594-
-10	174-54091	. PANEL ASSY, Gunsight and gun camera electrical control	1	594-

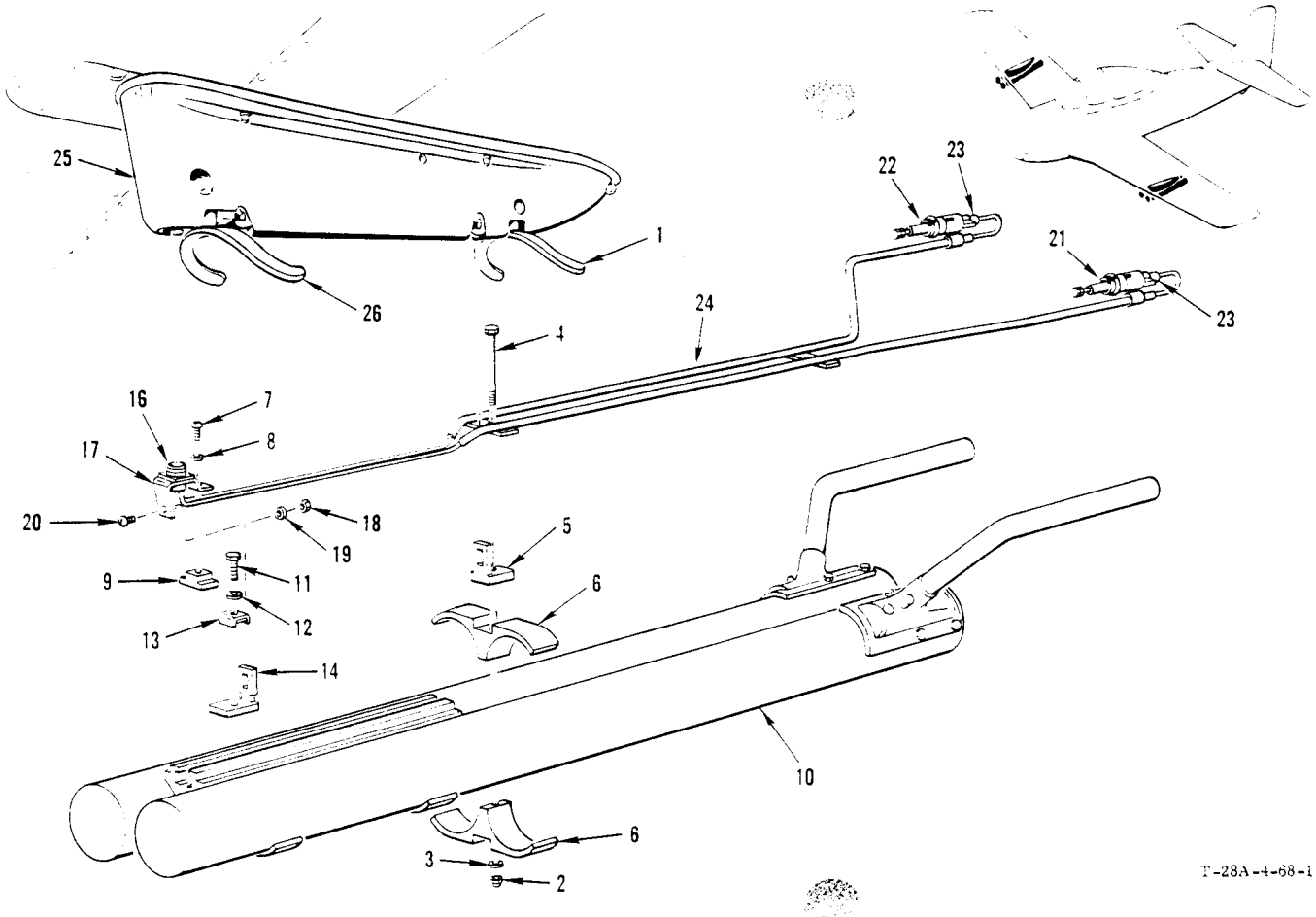

FIGURE 266G - TYPE MA-2A LAUNCHER INSTALLATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
266G	60C91581		*1 LAUNCHER INSTALLATION, Type MA-2A	NP	594-
-1	60B91573		. PAD, Rocket launcher	3	594-
	AN507--28-6		. SCREW	3	594-
	60J91571		. LAUNCHER ASSY, Rocket	1	594-
-2	MS20365--28		. . NUT	1	594-
-3	AN960--16		. . WASHER	1	594-
-4	AN4--32A		. . BOLT	1	594-
-5	60B91577		. . HANGER, Rocket launcher	2	594-
-6	60B91569		. . CLAMP, Rocket launcher	1	594-
-7	AN520-10-8		. . SCREW	1	594-
-8	AN960-10		. . WASHER	1	594-
-9	60B91575		. . CLIP, Rocket launcher	1	594-
-10	302001		. . LAUNCHER ASSY, Type MA-2A (Multitek)	1	594-
-11	AN4-8		. . . BOLT	1	594-
-12	AN936A-16H		. . . WASHER	1	594-
-13	302042		. . . BRACKET, Rocket launcher	1	594-
-14	60B91574		. . HANGER, Rocket launcher	1	594-
-15	60C91579		. . CABLE ASSY, Rocket ignitor MA-2A launcher	1	594-
-16	MS3102-1--12P		. . . RECEPTACLE	1	594-
	ATTACHING PARTS				
	MS35208-1-		. . . SCREW	4	594-
	AN960--		. . . WASHER	4	594-
	MS20365---0		. . . NUT		594-
	---*---				
-17	60B91567		. . . BRACKET, Rocket ignitor cable	1	594-
-18	MS20365-832		. . . NUT	1	594-
-19	AN970-8		. . . WASHER	1	594-
-20	MS35208--2		. . . SCREW	1	594-
-21	60C91566-101		. . . INSULATOR ASSY, Rocket launcher cable	1	594-
-22	60C91566-102		. . . INSULATOR ASSY, Rocket launcher cable	2	594-
-23	MS3057--		. . . ADAPTER	1	594-
-24	60D91578		. . . TUBE ASSY, Rocket ignitor cable	Ref	
-25	159-63002		RACK ASSY, Bomb complete (see fig. 266A)	Ref	
-26	159-63008		BRACE ASSY, Bomb rack sway (see fig. 266A)	Ref	

*1 Used on airplanes modified per T.O. 1T-28A-543

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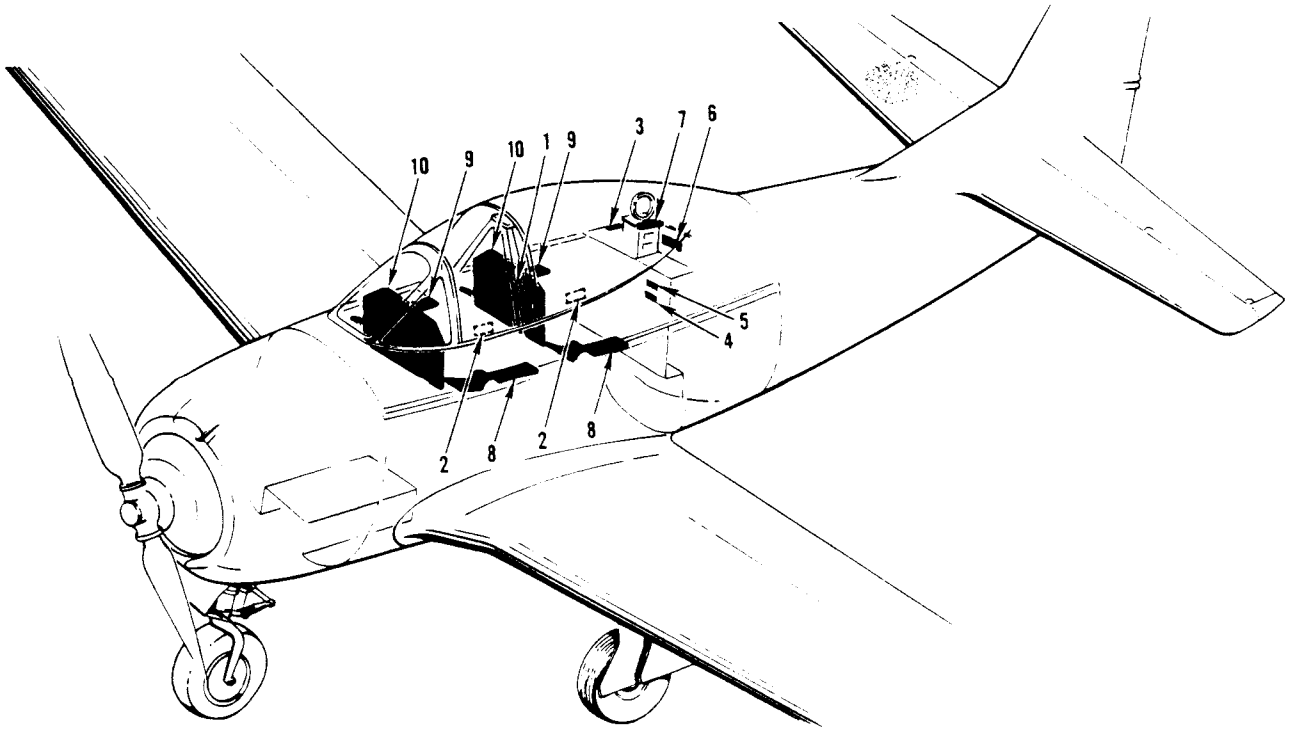

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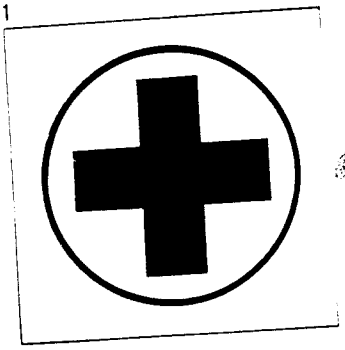

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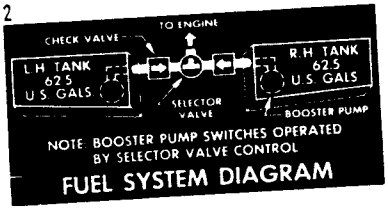


3

SLAVED COMPASS GYRO.

4

FUEL LEVEL GAUGE ADJUSTMENT BOX RIGHT TANK

5

FULL LEVEL GAUGE ADJUSTMENT BOX LEFT TANK

6

CAUTION
DISCONNECT ANTENNA PLUG BEFORE REMOVING CANOPY

7

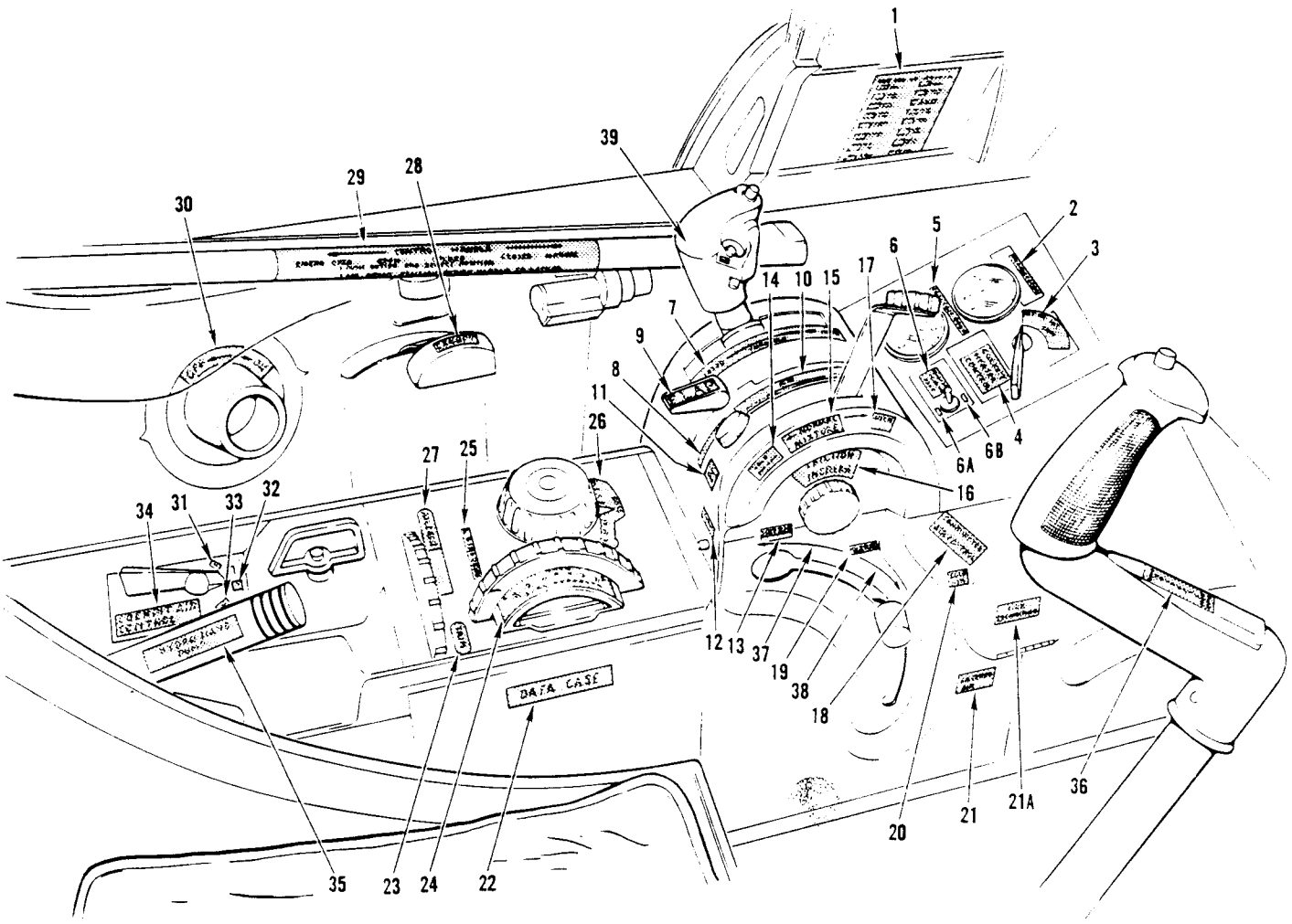
CORRECTED
T. O. NO. 12-3-3
DATA LINE 104

T-28A-4-53-9

FIGURE 267 - FRONT AND REAR COCKPIT DECAL PACKAGE

Revised 1 June 1962

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
267	58J76211	DECAL PACKAGE, Front cockpit	1	
	58J76212	DECAL PACKAGE, Rear cockpit.	1	
-1	58J76211-3	. DECAL, Red cross (front cockpit only)	1	
-2	58J76212-1	. DECAL, Fuel system diagram (2 tanks)	1	4-393
	58J76212-2	. DECAL, Fuel system diagram (4 tanks)	1	394-
-3	58J76212-6	. DECAL, Slaved compass gyro (rear cockpit only)	1	
-4	58J76212-9	. DECAL, Fuel level gage adjustment box right tank . . . . . (rear cockpit only)	1	
-5	58J76212-7	. DECAL, Full level gage adjustment box left tank . . . . . (rear cockpit only)	1	
-6	58J76212-3	. DECAL, Caution disconnect antenna plug (rear cockpit only) .	1	
-7	58J76212-5	. DECAL, Corrected T.O. No. 12-3-3 (rear cockpit only)	1	4-268
-8	No Number	. FRONT AND REAR LEFT HAND SIDE COCKPIT DECALS . . . . . (see figure 268 for breakdown)	NP	
-9	No Number	. FRONT AND REAR RIGHT HAND SIDE COCKPIT DECALS . . . . . (see figure 269 for breakdown)	NP	
-10	No Number	. FRONT AND REAR PILOT'S INSTRUMENT PANEL DECALS . . . . . (see figure 270 for breakdown)	NP	



1

COLORS—FLUID LINE IDENTIFICATION

LUBRICATION SYSTEM	INSTRUMENT AIR VACUUM
WATER INJECTION SYSTEM	COMPRESSED GAS
FUEL SYSTEM	HYDRAULIC SYSTEM
ROCKET FUEL SYSTEM	DE-ICING SYSTEM
ROCKET OXIDIZER SYSTEM	FIRE PROTECTION
BREATHING OXYGEN	AIR CONDITIONING
COOLANT SYSTEM	ELECTRICAL CONDUIT
ROCKET CATALYST	PNEUMATIC
WARNING SYMBOL	

2

HYDRO. SYSTEM

3

OFF ON INC. TEMP.

4

COCKPIT HEATER CONTROL

5

CANOPY AIR EMERG.

T-28A-4-53-6

FIGURE 268 - FRONT AND REAR LH SIDE COCKPIT DECALS (SHEET 1 OF 2)

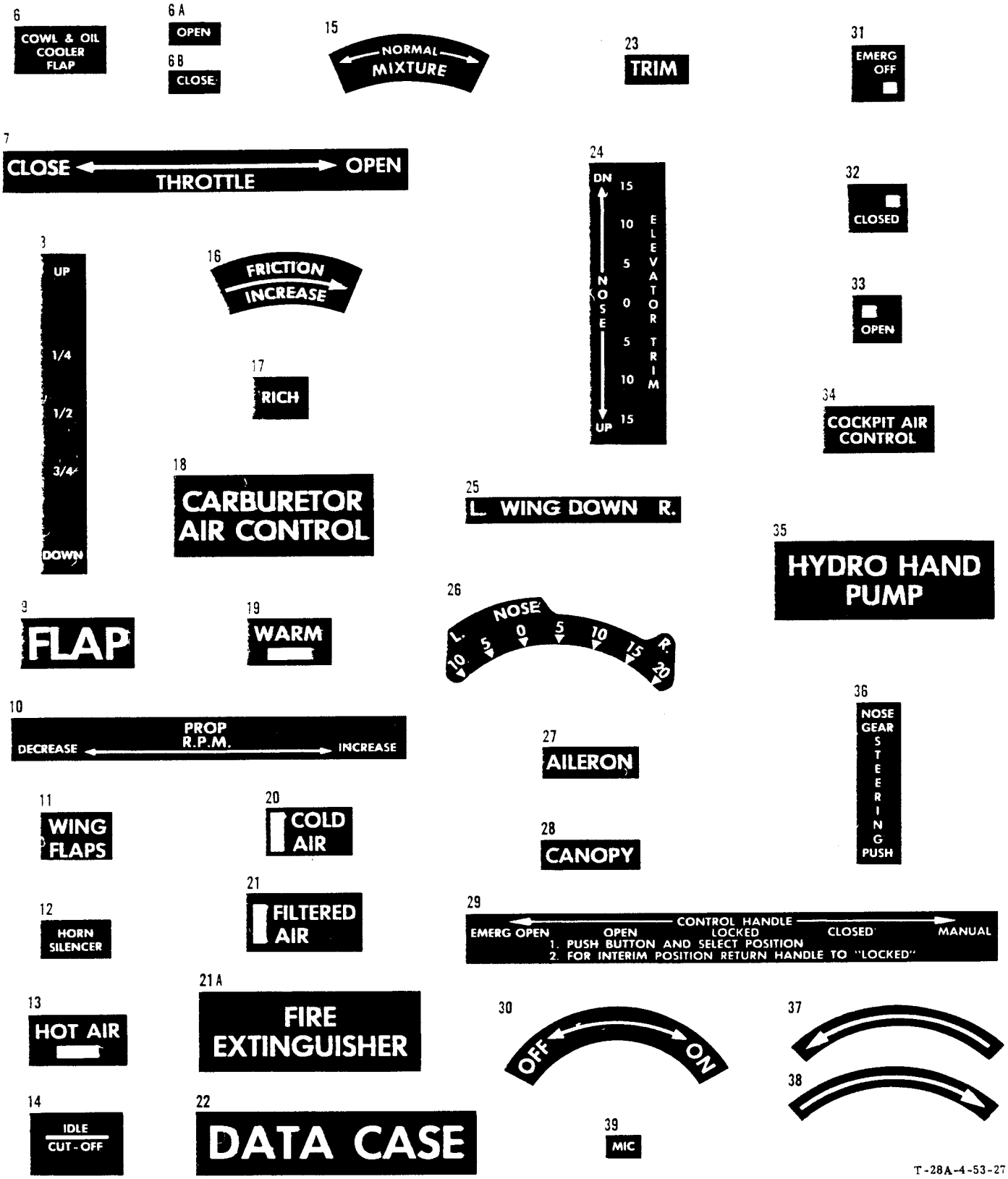
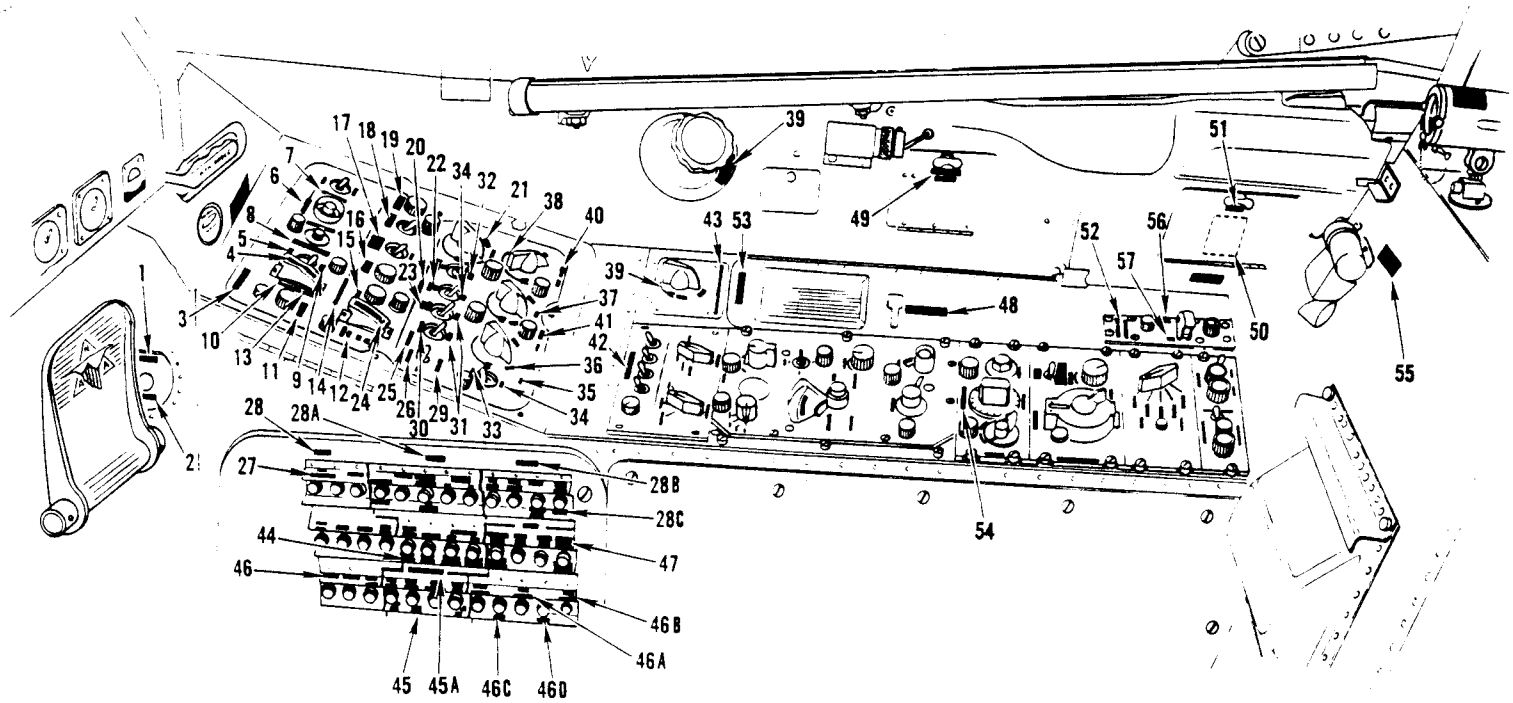


FIGURE 268 - FRONT AND REAR LH SIDE COCKPIT DECALS (SHEET 2 OF 2)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
268	No Number		FRONT AND REAR LEFT HAND SIDE COCKPIT DECALS . . . . . (see figure 267 for next assembly)	NP	
-1	58J76211-7		. DECAL, Fluid line identification (front cockpit only)	1	
-2	58J76211-75		. DECAL, Hydro system	2	
-3	58J76211-17		. DECAL, Off on increase temp (front cockpit only)	1	
-4	58J76211-9		. DECAL, Cockpit heater control (front cockpit only).	1	
-5	58J76211-81		. DECAL, Canopy air emer.	1	
-6	58J76211-85		. DECAL, Cowl and oil cooler flap	1	
-6A	58J76211-87		. DECAL, Open	1	
-6B	58J76211-149		. DECAL, Closed	1	
-7	58J76211-12		. DECAL, Throttle	1	
-8	58J76211-38		. DECAL, Flap position	1	
-9	58J76211-22		. DECAL, Flap	1	
-10	58J76211-23		. DECAL, Prop RPM	1	
-11	58J76211-46		. DECAL, Wing flaps	1	
-12	58J76211-101		. DECAL, Horn silencer	1	
-13	58J76211-27		. DECAL, Hot air	1	
-14	58J76211-11		. DECAL, Idle cut off (red)	1	
-15	58J76211-128	*2	. DECAL, Normal mixture	1	
-16	58J76211-129	*2	. DECAL, Friction increase	1	
-17	58J76211-93		. DECAL, Rich	1	
-18	58J76211-21		. DECAL, Carburetor air control	1	
-19	58J76211-73		. DECAL, Warm	1	
-20	58J76211-61		. DECAL, Cold air	1	
-21	58J76211-45		. DECAL, Filtered air	1	
-21A	58J76211-135		. DECAL, Fire extinguisher (red) (front cockpit only)	1	
-22	58J76211-8		. DECAL, Data case (front cockpit only)	1	
-23	58J76211-70		. DECAL, Trim	1	
-24	58J76211-19		. DECAL, Elevator trim.	1	
-25	58J76211-52		. DECAL, L wing down R.	1	
-26	58J76211-130	*2	. DECAL, L nose R	1	
-27	58J76211-42		. DECAL, Aileron	1	
-28	58J76211-54		. DECAL, Canopy (yellow).	1	
-29	58J76211-10		. DECAL, Control handle (yellow).	1	
-30	58J76211-138	*1	. DECAL, Off on	2	
-31	58J76211-96		. DECAL, Emer off	1	
-32	58J76211-78		. DECAL, Closed	1	
-33	58J76211-82		. DECAL, Open	1	
-34	58J76211-60		. DECAL, Cockpit air control	1	
-35	58J76211-5		. DECAL, Hydro hand pump (red) (front cockpit only)	1	
-36	58J76211-41		. DECAL, Nose gear steering push	1	
-37	58J76211-140		. DECAL, Arrow (left)	1	
-38	58J76211-141		. DECAL, Arrow (right).	1	
-39	58J76211-132		. DECAL, Mic	1	

*1 Decals marked thus are supplied as a single sheet within this package.
*2 Decals marked thus are supplied as a single sheet within this package.



1 VOLTAGE REGULATOR

2 ADJUST PER T.O. 03-5-39. 28 VOLTS MAXIMUM

3 POWER

4 GENERATOR

5 BATTERY ON

6 ENGINE

7 OIL DILUTE

OIL DILUTION SYSTEM DISCONNECTED

8 PRIMER

9 OFF

10 OFF

11 OVER VOLTAGE OFF LINE

12 MAIN ON OFF SPARE ON

13 RESET

14 INVERTER

15 MAIN OUT

16 BOTH OUT

17 PITOT HEATER ON

18 CONTROL SHIFT

T-28A-4-53-7

FIGURE 269 - FRONT AND REAR RH SIDE COCKPIT DECALS (SHEET 1 OF 3)

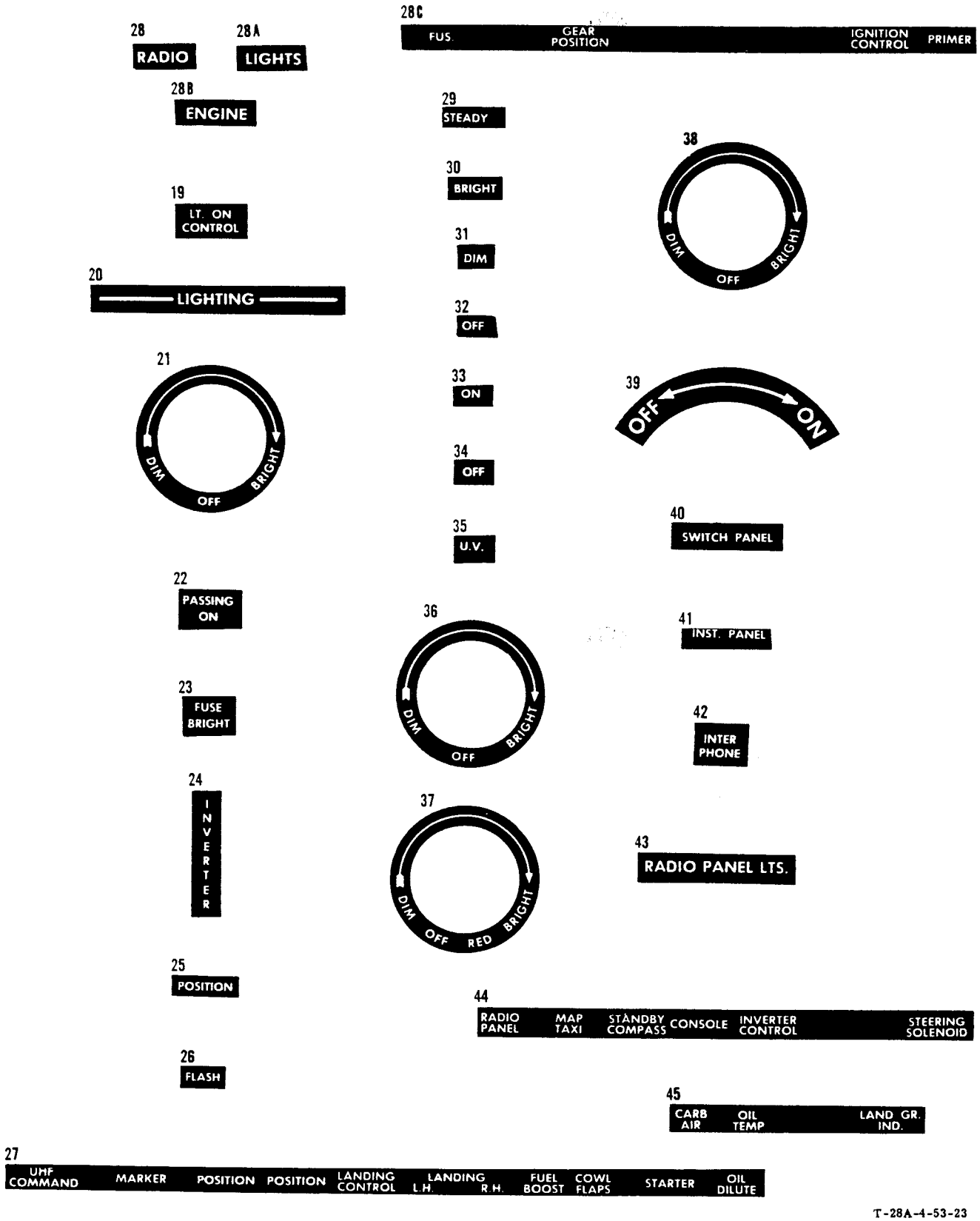


FIGURE 269 - FRONT AND REAR RH SIDE COCKPIT DECALS (SHEET 2 OF 3)

45A
INSTRUMENTS

51
FUSE PANEL

46
COMPASS CONTROL | VHF NAV | FUEL QUANTITY | TURN & BANK | GYRO COMPASS | FLAP IND. | MAIN INVERTER

46A
CABIN HEATER

CONTROL SHIFT

52
EMER. KEYER | HAND HELD MIC.

46C
PITOT HEATER

46D
CANOPY CONTROL

47
LIGHT TEST | INTER | INTER | GLIDE PATH | SWITCH PANEL | PASSING | INSTRUMENTS RED | U.V. | WARN HORN | SPARE INVERTER | HYDRO SYSTEM | GEAR HANDLE LOCK

48
MAP CASE

53
SPACE PROVISIONS FOR AN/ARN 14 OR C-570/A RANGE CONTROL

49
SPARE LAMPS

54
VHF COMMAND

50
1 AMP GYRO COMP.
1 AMP INVERTER FAIL-IND.
1 AMP ATT GYRO
3 AMP OMNI RANGE
3 AMP GLIDE PATH
1 AMP SPARE
3 AMP SPARE

55
HEADSET STOWAGE

56
ON

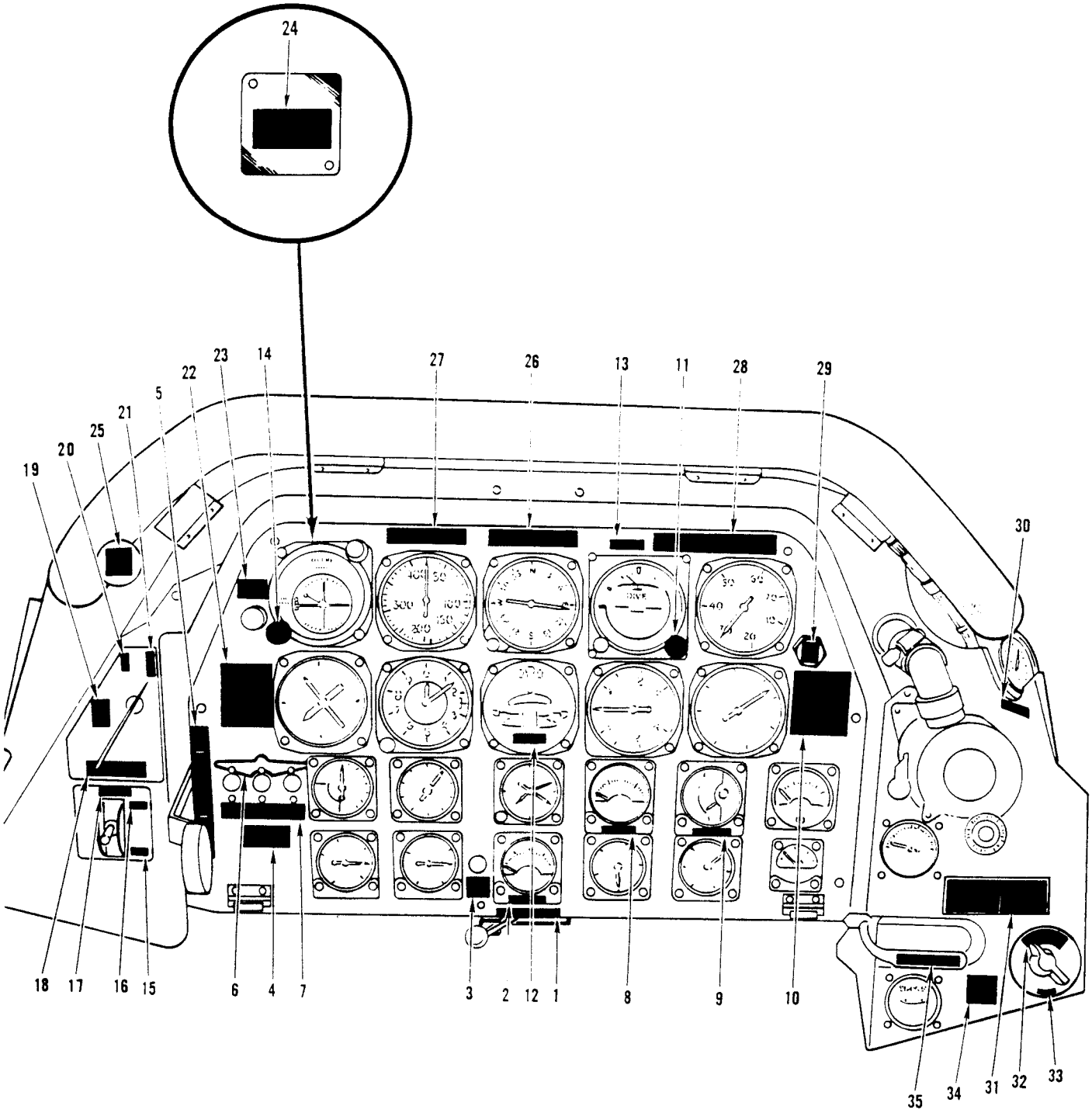
57
OFF

T-28A-4-53-25

FIGURE 269 - FRONT AND REAR RH SIDE COCKPIT DECALS (SHEET 3 OF 3)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
269	No Number		FRONT AND REAR RIGHT HAND SIDE COCKPIT DECALS . . . . . (see figure 267 for next assembly)	NP	
-1	58J76211-57		. DECAL, Voltage regulator (front cockpit only)	1	
-2	58J76211-72		. DECAL, Adjust per T.O. (front cockpit only)	1	
-3	58J76211-69		. DECAL, Power	1	
-4	58J76211-100		. DECAL, Generator	1	
-5	58J76211-118		. DECAL, Battery on	1	
-6	58J76211-48		. DECAL, Engine	1	
-7	58J76211-97		. DECAL, Oil dilution	1	
	58J76211-63	*2	. DECAL, Oil dilution system disconnected	1	
-8	58J76211-110		. DECAL, Primer	1	
-9	58G76206-7		. DECAL, Off	3	
-10	58J76211-65		. DECAL, Off		
-11	58J76211-86		. DECAL, Over voltage off line		
-12	58J76211-47		. DECAL, Main on off spare on		
-13	58J76211-115		. DECAL, Reset		
-14	58J76211-124		. DECAL, Inverter		
-15	58J76211-94		. DECAL, Main out		
-16	58J76211-113		. DECAL, Both out		
-17	58J76211-83		. DECAL, Pitot heater on (front cockpit only)		
-18	58J76211-92		. DECAL, Control shift		
-19	58J76211-79		. DECAL, Ltg on control		
-20	58J76211-37		. DECAL, Lighting		
-21	58J76211-1	*1	. DECAL, Dim off bright		
-22	58J76211-109		. DECAL, Passing on		
-23	58J76211-90		. DECAL, Fuse bright		
-24	58J76211-49		. DECAL, Inverter		
-25	58J76211-111		. DECAL, Position		
-26	58J76211-119		. DECAL, Flash		
-27	58J76211-14		. DECAL, UHF command strip (front cockpit only)		
-28	58J76211-13		. DECAL, Radio (front cockpit only)		
-28A	58J76211-142		. DECAL, Lights (front cockpit only)		
-28B	58J76211-143		. DECAL, Engine (front cockpit only)		
-28C	58J76211-144		. DECAL, Fuselage gear position strip (front cockpit only) . . .		
-29	58J76211-122		. DECAL, Steady		
-30	58J76211-121		. DECAL, Bright		
-31	58J76211-114		. DECAL, Dim		
-32	58G76206-7		. DECAL, Off (front cockpit only)		
-33	58G76206-5		. DECAL, On		
-34	58G76206-7		. DECAL, Off	2	
-35	58J76211-125		. DECAL, U.V.		
-36	58J76211-1	*1	. DECAL, Dim off bright		
-37	58J76211-139		. DECAL, Dim off red bright		
-38	58J76211-1	*1	. DECAL, Dim off bright		
-39	58J76211-138	*1	. DECAL, Off on	2	
-40	58J76211-102		. DECAL, Switch panel		
-41	58J76211-120		. DECAL, Instl panel		
-42	58J76211-123		. DECAL, Interphone		
-43	58J76211-59		. DECAL, Radio panel lights		
-44	58J76211-25		. DECAL, Radio panel strip (front cockpit only)		
-45	58J76211-55		. DECAL, Carb air strip (front cockpit only)		
-45A	58J76211-71		. DECAL, Instruments (front cockpit only)		
-46	58J76211-24		. DECAL, Compass control strip (front cockpit only)		
-46A	58J76211-145		. DECAL, Cabin heater (front cockpit only)	1	
-46B	58J76211-146		. DECAL, Control shift (front cockpit only)	1	
-46C	58J76211-147		. DECAL, Pitot heater (front cockpit only)	1	
-46D	58J76211-148		. DECAL, Canopy control (front cockpit only)	1	
-47	58J76211-15		. DECAL, Light test strip (front cockpit only)	1	
-48	58J76211-44		. DECAL, Map case	1	
-49	58J76211-28		. DECAL, Spare lamps	1	
-50	58J76211-18		. DECAL, 1 amp gyro comp. (front cockpit only)	1	
-51	58J76211-35		. DECAL, Fuse panel (front cockpit only)	1	
-52	58J76211-88		. DECAL, Emer Keyer (front cockpit only)	1	844-
	58J76211-108		. DECAL, Hand held Mic.	1	4-843
-53	58J76211-26		. DECAL, Space provisions for AN/ARN14 or C-570/A range cont .	1	
-54	58J76211-91		. DECAL, VHF command	1	
-55	58J76211-29		. DECAL, Headset stowage	1	81-
-56	58J76211-133		. DECAL, On (front cockpit only)	1	844-
-57	58J76211-134		. DECAL, Off (front cockpit only)	1	844-

*1 Decals marked thus are supplied as a single sheet within this package.
*2 Used on airplanes on which the oil dilution switch is disconnected and which have not been modified per T.O. 1T-28A-534. See fig. 163 for airplanes modified per T.O. 1T-28A-534.



T-28A-4-53-5

FIGURE 270 - FRONT AND REAR PILOTS INSTRUMENT PANEL DECALS (SHEET 1 OF 2)

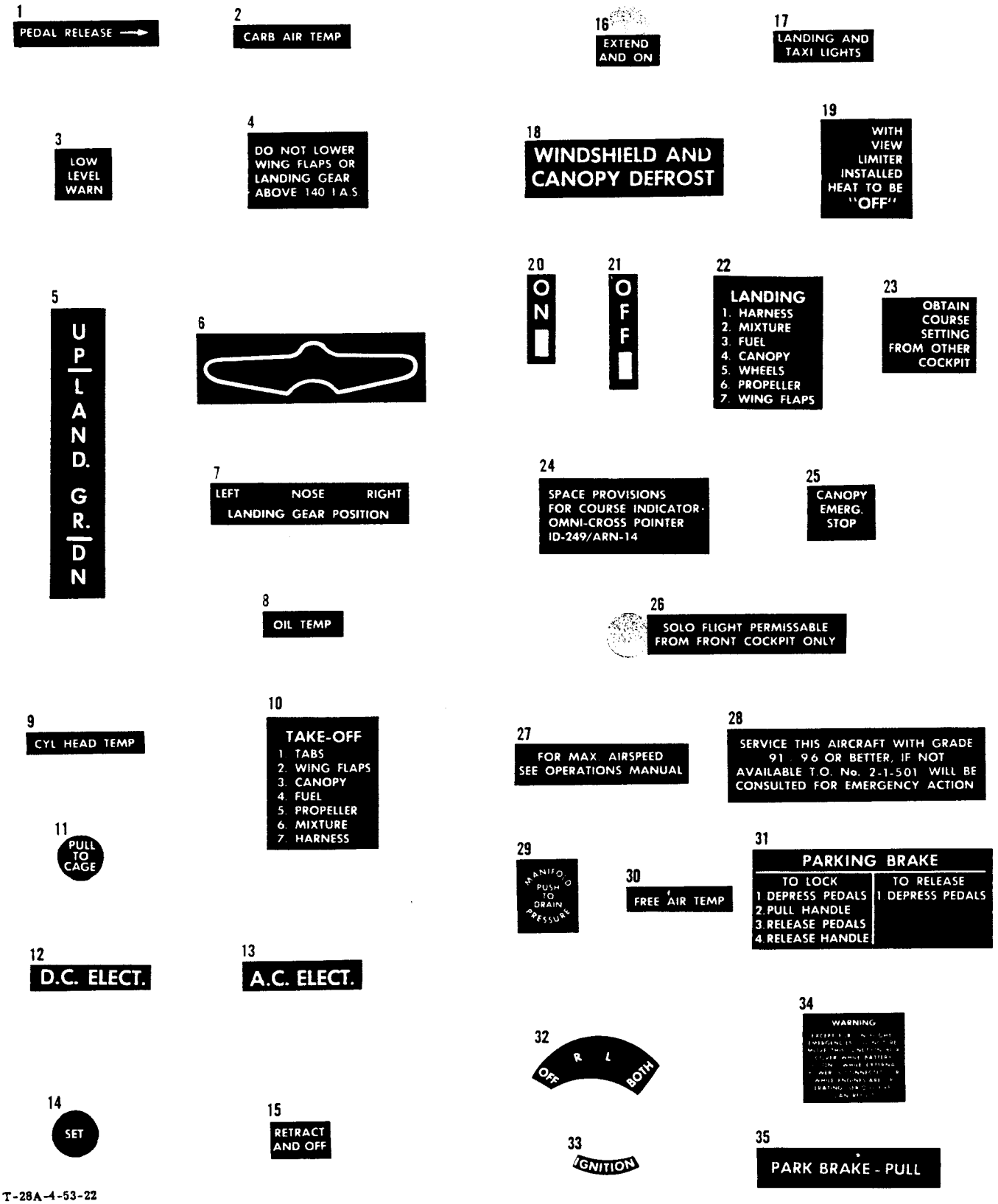
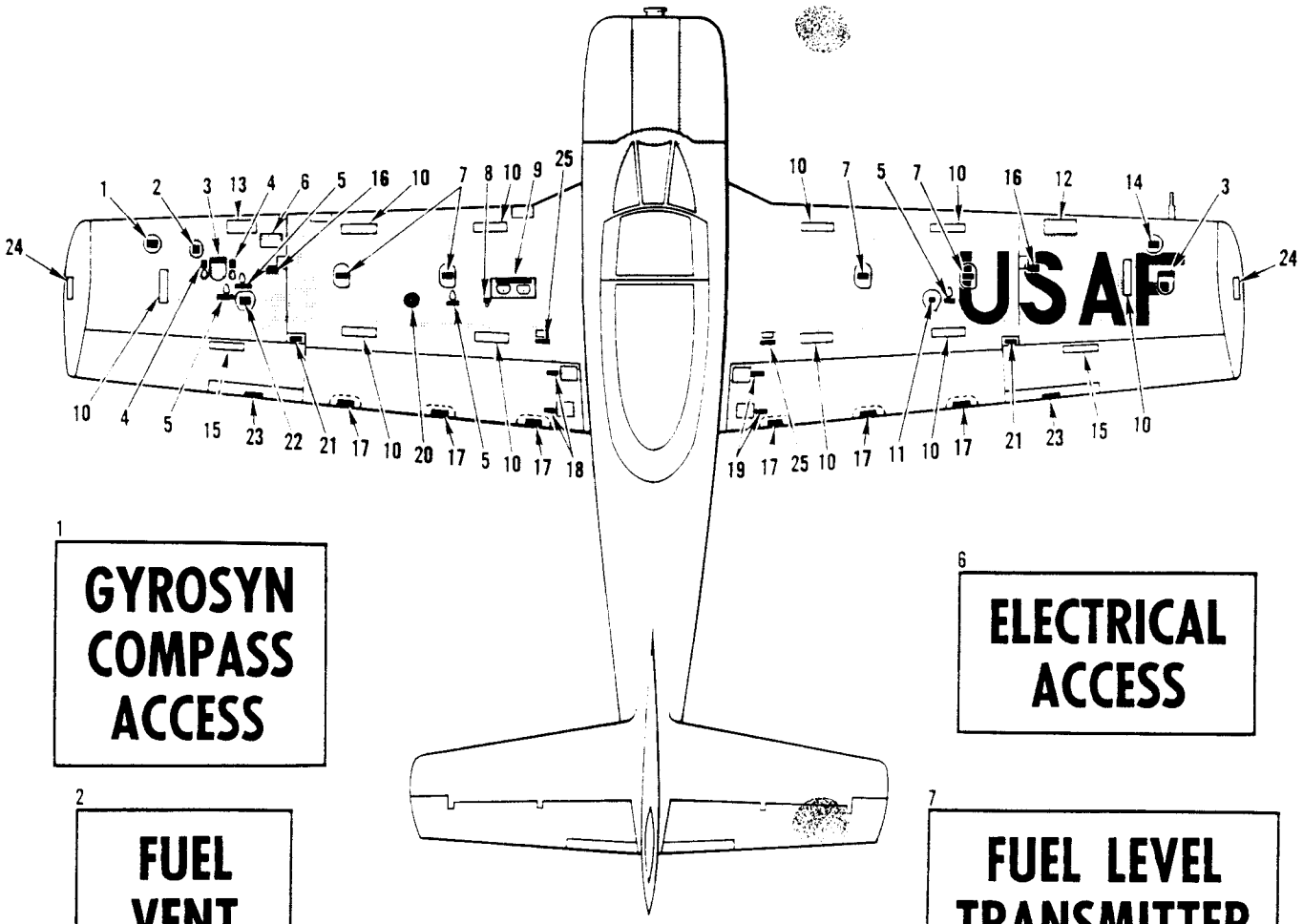


FIGURE 270 - FRONT AND REAR PILOT'S INSTRUMENT PANEL DECALS (SHEET 2 OF 2)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
270	No Number		FRONT AND REAR PILOT'S INSTRUMENT PANEL DECALS . . . . . (see figure 267 for next assy)	NP	
-1	5807-6211-104		. DECAL, Pedal release.	1	
-2	5807-6211-105		. DECAL, Carb air temp	1	
-3	5807-6211-117		. DECAL, Low level warn	1	
-4	5807-6211-43		. DECAL, Do not lower wing flaps or landing gear above 140 IAS.	1	
-5	5807-6211-20		. DECAL, UP landing gear dn	1	
-6	5807-6211-2	*2	. DECAL, Landing gear position	1	
-7	5807-6211-58		. DECAL, Landing gear position left nose right	1	
-8	5807-6211-95		. DECAL, Oil temp	1	
-9	5807-6211-112		. DECAL, Cyl head temp	1	
-10	5807-6211-32	*3	. DECAL, Take off	1	
-11	5807-6211-137	*1	. DECAL, Pull to gage	1	
-12	5807-6211-62		. DECAL, D.C. elec	1	
-13	5807-6211-50		. DECAL, A.C. elec	1	
-14	5807-6211-131	*2	. DECAL, Set.	1	594-
-15	5807-6211-103		. DECAL, Retract and off	1	
-16	5807-6211-69		. DECAL, Extend and on	1	
-17	5807-6211-60		. DECAL, Landing and taxi lights	1	
-18	5807-6211-40		. DECAL, Windshield and canopy defrost (front cockpit only) . .	1	
-19	5807-6211-34		. DECAL, View limiter installed heat off (front cockpit only) .	1	
-20	5807-6211-67		. DECAL, On (front cockpit only)	1	
-21	5807-6211-64		. DECAL, Off (front cockpit only)	1	
-22	5807-6211-39	*3	. DECAL, Landing	1	
-23	5807-6211-56		. DECAL, Obtain course setting from other cockpit	1	
-24	5807-6211-31		. DECAL, Space provisions for course ind. (CD249/ARN14)	1	4-593
-25	5807-6211-53		. DECAL, Canopy emer stop (yellow)	1	
-26	5807-6211-51		. DECAL, Solo flight permissable from front cockpit only . . .	1	
-27	5807-6211-74		. DECAL, For maximum airspeed see operations manual	1	
-28	5807-6211-16		. DECAL, Service this aircraft with grade 91/96 fuel	1	
-29	5807-6211-99		. DECAL, Manifold pressure	1	
-30	5807-6211-116		. DECAL, Free air temp (front cockpit only)	1	
-31	5807-6211-36		. DECAL, Parking brake (front cockpit only)	1	
-32	5807-6211-126	*2	. DECAL, Off R L both	1	
-33	5807-6211-127	*2	. DECAL, Ignition	1	
-34	5807-6211-4		. DECAL, Warning red (front cockpit only)	1	
-35	5807-6211-6		. DECAL, Park brake-pull (front cockpit only)	1	

*1 Decals marked thus are supplied on a single sheet within this package.
*2 Decals marked thus are supplied on a single sheet within this package.
*3 Not used on airplanes modified per T.O. 1T-28A-536.



1
GYROSYN COMPASS ACCESS

6
ELECTRICAL ACCESS

2
FUEL VENT ACCESS

7
FUEL LEVEL TRANSMITTER

3
LIQUIDOMETER ACCESS

5
FUEL CELL TIEDOWN FITTINGS

8
WING HOIST

4
VENT LINE SUP.

9
LANDING GEAR MECH. FUEL LINES TANK OUTLET

T-28A-4-53-11

FIGURE 271 - UPPER WING SURFACE DECAL PACKAGE (SHEET 1 OF 2)

10
NO STEP

11
62.5

12
CAUTION:
DISCONNECT ELECTRICAL
WIRING & PITOT & FUEL TANKS
BEFORE REMOVING OUTER WING

13
CAUTION:
DISCONNECT ELECTRICAL
WIRING BEFORE REMOVING
OUTER WING

14
AIRSPEED
CONNECTION
ACCESS

16
WING
ATTACH BOLTS

15
DO NOT SET AILERON
ON FABRIC SEAL

17
PUSH

18
STEP→

19
←STEP

20
GROUND
HERE

21
AILERON
MECHANISM

22
CAPACITY
88.5
U. S. GAL

23
NO PUSH

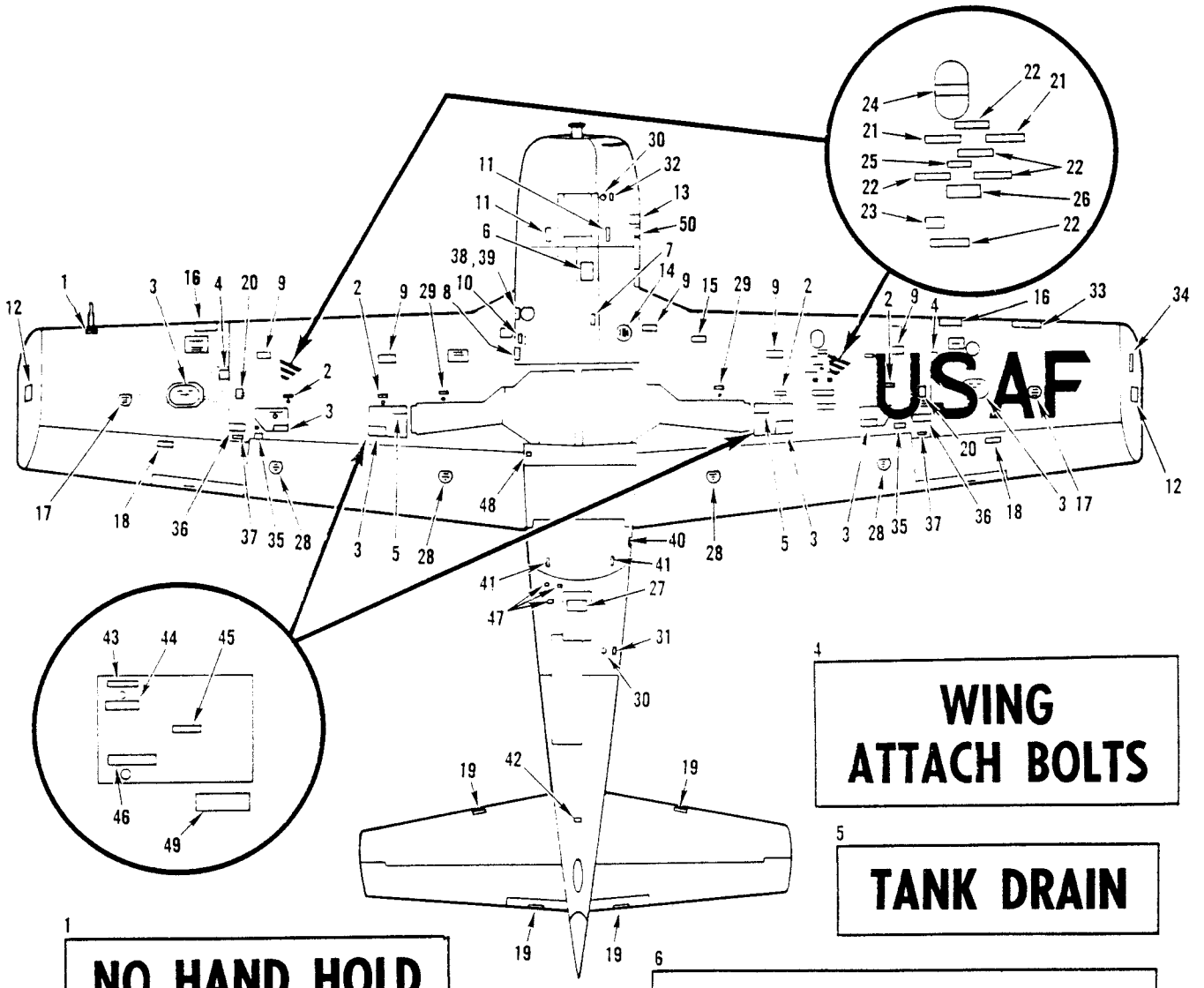
24
NO LIFT

25
HAND HOLD

T-28A-4-53-12

FIGURE 271 - UPPER WING SURFACE DECAL PACKAGE (SHEET 2 OF 2

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
271	58F76208	DECAL PACKAGE, UPPER WING SURFACE	1	
-1	58F76208-18	. DECAL, Gyrosyn compass access	1	
-2	58F76208-17	. DECAL, Fuel vent access	2	
-3	58F76208-9	. DECAL, Liquidometer access	2	
-4	58F76208-4	. DECAL, Vent line support.	4	
-5	58F76208-3	. DECAL, Fuel cell tiedown fittings	8	
-6	58F76208-23	. DECAL, Electrical access	2	
-7	58F76208-19	. DECAL, Fuel level transmitter	4	
-8	58F76208-22	. DECAL, Wing hoist	2	
-9	58F76208-20	. DECAL, Ldg mech fuel lines and tank outlet	2	
-10	58F76208-1	. DECAL, No step	10	
-11	58F76208-25	. DECAL, 82.5 (red)	2	4-393
-12	58F76208-21	. DECAL, Caution, disconnect electrical wiring, pitot and fuel. tanks before removing outer wing	1	
-13	58F76208-2	. DECAL, Caution, disconnect electric wiring before removing outer wing	1	
-14	58F76208-16	. DECAL, Airspeed connection access	1	
-15	58F76208-7	. DECAL, Do not aileron on fabric seal	2	
-16	58F76208-8	. DECAL, Wing attach bolts	2	
-17	58F76208-14	. DECAL, Push	14	
-18	58F76208-11	. DECAL, Step	2	
-19	58F76208-12	. DECAL, Step	2	
-20	58F76208-24	. DECAL, Ground here	2	
-21	58F76208-5	. DECAL, Aileron mechanism	2	
-22	58F76208-26	. DECAL, Capacity 88.5 U.S. Gal (red	2	494-
-23	58F76208-15	. DECAL, No push	2	
-24	58F76208-10	. DECAL, No lift	2	
-25	58J76210-28	. DECAL, Hand hold	2	



4
WING ATTACH BOLTS

5
TANK DRAIN

1
NO HAND HOLD

6
REMOVE CAP TO DRAIN HYD. SYSTEM - CAUTION: REPLACE CAP IN L.H. NOSE GEAR WELL.

2
FUEL CELL TIEDOWN FITTINGS

7
LEVEL LUGS INSIDE

3
FUEL CELL ACCESS

T-28A-4-53-13

FIGURE 272 - WING LOWER SURFACE AND LOWER FUSELAGE DECAL PACKAGE (SHEET 1 OF 4)

8
FUEL SUMP TANK AND BOOSTER PUMP ACCESS

9
ELECTRICAL ACCESS

10
AIRSPEED LINES DRAIN

11
COWL RELEASE TURN SCREW TO UNLOCK HANDLE

12
NO LIFT

13
OIL COOLER DRAIN

14
FUEL STRAINER CARB VAPOR RETURN SUMP DRAIN

15
GUN CAMERA

16
CAUTION: DISCONNECT ELECTRICAL WIRING BEFORE REMOVING OUTER WING

17
AILERON ATTACH ACCESS

18
DO NOT SET AILERON ON FABRIC SEAL

19
NO PUSH

20
ELECTRICAL & FUEL VENT LINES

T-28A-4-53-14

FIGURE 272 - WING LOWER SURFACE AND LOWER FUSELAGE DECAL PACKAGE (SHEET 2 OF 4)

21
BOMB RACK

22
GUN PACKAGE

23
BOMB RACK

24
ARMAMENT ELECTRICAL

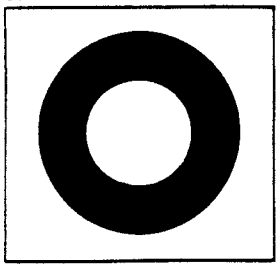
25
SHEAR PIN

26
↑
BOMB RACK ELECT ACCESS

27
MARKER BEACON ANTENNA ENCLOSED FINISH WITH PAINT PER SPEC. MIL-L-7178 GREY COLOR #512

28
FUEL VENT ACCESS

29
GREASE

30


31
PLUMB LINE

32
DATUM POINT

33
GLIDE PATH ANTENNA INSIDE LEADING EDGE.

34
OMNI RANGE ANTENNA INSIDE

35
JACK & MOOR↗

36
WHEN JACKING BOTH NOSE & WING. JACK EVENLY TO KEEP AIRPLANE LEVEL.

T-28A-4-53-15

FIGURE 272 - WING LOWER SURFACE AND LOWER FUSELAGE DECAL PACKAGE (SHEET 3 OF 4)

37
AILERON MECHANISM

38
PITOT, ELEC. & FUEL ACCESS

39
ELECTRICAL & AIRSPEED CONNECTION ACCESS

40
BAGGAGE STOWAGE DATA CASE

41
PULL

42
MOOR

43
BOOSTER PUMP

44
BOOSTER PUMP DRAIN

45
FUEL CELL

46
FUEL SUMP DRAIN

47
DRAIN

48
DRAIN →

49
CARB. VAPOR RETURN

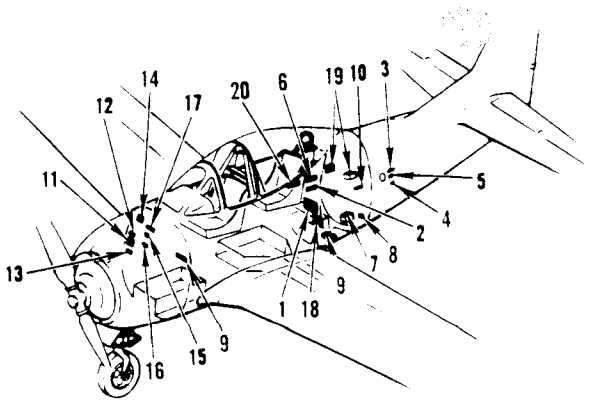
50
DOWN LOCK SAFETY PIN HOLE ↓

T-28A-4-53-16

FIGURE 272 - WING LOWER SURFACE AND LOWER FUSELAGE DECAL PACKAGE (SHEET 4 OF 4)

Revised 26 June 1959

FIGURE & INDEX NUMBER	PART NUMBER	NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
272	88HT6209	DECAL PACKAGE, Wing lower surface and lower fuselage	1	
-1	88HT6209-13	. DECAL, No hand hold	1	
-2	88HT6209-26	. DECAL, Fuel cell tie-down fittings	1	
-3	88HT6209-25	. DECAL, Fuel cell access	1	
-4	88HT6209-8	. DECAL, Wing attach bolts	2	
-5	88HT6209-11	. DECAL, Tank drain	2	394-
-6	88HT6209-5	. DECAL, Hydraulic drain cap caution	1	
-7	88HT6209-31	. DECAL, Level lugs inside	1	
-8	88HT6209-15	. DECAL, Fuel sump tank and booster pump access	1	394-
-9	88HT6209-23	. DECAL, Electrical access	1	
-10	88HT6209-7	. DECAL, Airspeed lines drain	1	
-11	88HT6209-27	. DECAL, Dowl release turn screw to unlock handle	2	
-12	88HT6209-10	. DECAL, No lift	2	
-13	88HT6209-32	. DECAL, Oil cooler drain	1	
-14	88HT6209-1	. DECAL, Fuel strainer bard vapor return sump drain	1	
-15	88HT6209-5	. DECAL, Gun camera	1	
-16	88HT6209-2	. DECAL, Caution disconnect electrical wiring	2	
-17	88HT6209-34	. DECAL, Aileron attach access	2	
-18	88HT6209-7	. DECAL, Do not set aileron on fabric seal	2	
-19	88HT6209-15	. DECAL, No push	2	
-20	88HT6209-35	. DECAL, Electrical and fuel vent lines	1	
-21	88HT6209-39	. DECAL, Bomb rack	2	
-22	88HT6209-6	. DECAL, Gun package	1	
-23	88HT6209-40	. DECAL, Bomb rack	2	
-24	88HT6209-10	. DECAL, Armament electrical	2	
-25	88HT6209-41	. DECAL, Shear pin	2	
-26	88HT6209-38	. DECAL, Bomb rack electrical access	2	
-27	88HT6209-6	. DECAL, Marker beacon antenna enclosed	1	
-28	88HT6209-20	. DECAL, Fuel vent access	1	
-29	88HT6209-9	. DECAL, Grease	2	
-30	88HT6209-16	. DECAL, Red circle	2	
-31	88HT6209-21	. DECAL, Plumb line	1	
-32	88HT6209-19	. DECAL, Datum point	1	
-33	88HT6209-17	. DECAL, Pitot path antenna inside leading edge	1	
-34	88HT6209-14	. DECAL, Omni range antenna inside	1	
-35	88HT6209-36	. DECAL, Jack and moor	2	
-36	88HT6209-4	. DECAL, Jacking instructions	2	
-37	88HT6209-24	. DECAL, Aileron mechanism	2	
-38	88HT6209-28	. DECAL, Pitot, elec and fuel access	1	
-39	88HT6209-44	. DECAL, Electrical and airspeed connection access	1	
-40	88HT6209-3	. DECAL, Baggage stowage data base	1	
-41	88HT6209-22	. DECAL, Pull	2	
-42	88HT6209-2	. DECAL, Moor	2	
-43	88HT6209-12	. DECAL, Booster pump	2	4-399
-44	88HT6209-13	. DECAL, Booster pump drain	2	4-399
-45	88HT6209-29	. DECAL, Fuel cell	2	4-399
-46	88HT6209-33	. DECAL, Fuel sump drain	2	4-399
-47	88HT6209-43	. DECAL, Drain	3	
-48	88HT6209-44	. DECAL, Drain	1	
-49	88HT6209-14	. DECAL, Barometer vapor return	2	
-50	88HT6209-17	. DECAL, Downlock safety pin hole	1	



1
ARMAMENT KIT
159-89001
A-1B GUNSIGHT POWER SUPPLY

2
CANOPY EMERG. AIR BOTTLE REFILL VALVE. COMPRESSED AIR OR NITROGEN MAX. PRESS. 1980 P. S. I.

3
DOME LIGHT

4
ON

5
OFF

6
RADIO JUNCTION PANEL

7
CAUTION
LOCAL REMOTE SWITCH ON LOCAL CHANNEL SELECTOR CONTROL BOX MUST BE IN REMOTE POSITION FOR FLIGHT

8
28 VOLT D C FOR V H F NAV TEST EQUIPMENT

9
DATA CASE

10
HYDRAULIC GROUND TEST DATA
SET TEST STAND RELIEF VALVE TO 1900 P S I
SET TEST STAND VOLUME OUTPUT TO 5.2 G.P.M.
USE VARIABLE DISPLACEMENT PUMP OR SET GROUND TEST PRESS COMPENSATOR TO 1500 P S I.
USE RED HYDRAULIC FLUID SPEC MIL-O-5606
ATTACH SUCTION, PRESS & PUMP BY-PASS.

11
WARNING
WHEN THIS PLUG IS REMOVED IT MUST BE PLACED IN GROUNDING STOWAGE RECEPTACLE LOCATED ON ENGINE MOUNT (R H) FAILURE TO GROUND RESULTS IN IGNITION BEING (ON)

12
MAGNETO

13
STARTER SWITCH

14
NUT ON CONDUIT FINGER TIGHT AND SAFETIED

15
OIL

16
FUEL

17
MANIFOLD

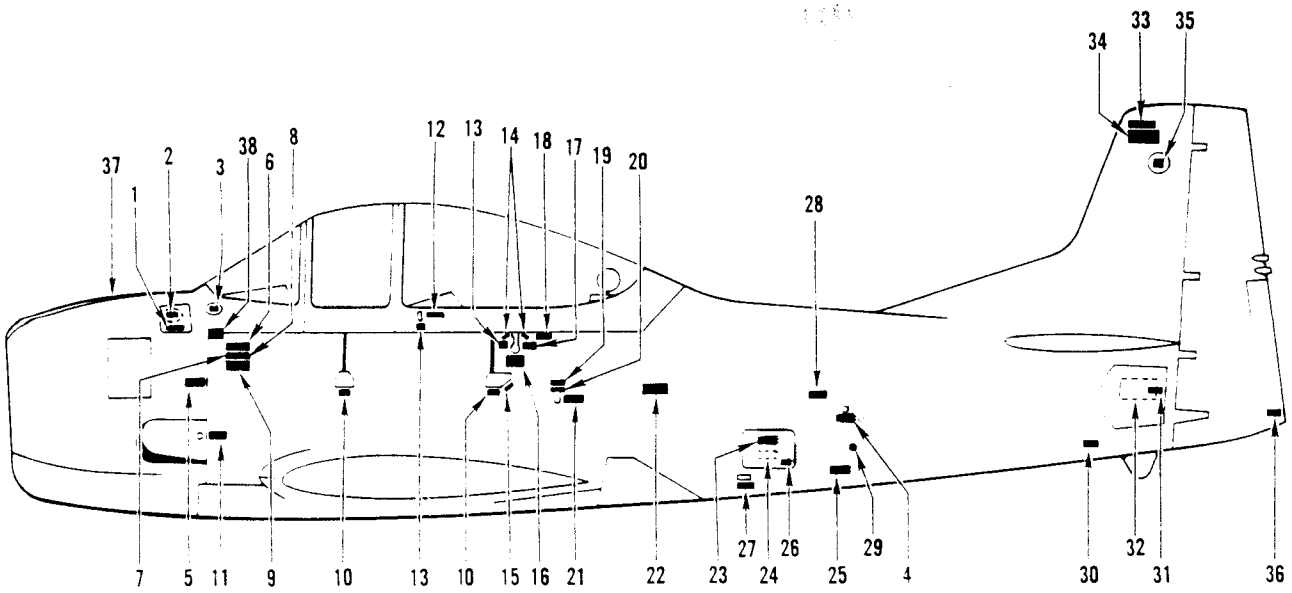
18
TORQUE TOP AND BOTTOM REAR SPAR BOLTS 40-50 FT. LBS.

19
WARNING

T-28A-4-53-17A

FIGURE 273 - ENGINE AND BAGGAGE COMPARTMENTS DECAL PACKAGE

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
273	58G76207	DECAL PACKAGE, Engine and baggage compartments	1	
-1	58G76207-1	. DECAL, Armament kit A1B gunsight power supply	1	
-2	58G76207-3	. DECAL, Canopy emergency air bottle refill value	1	
-3	58G76206-9	. DECAL, Dome light	1	
-4	58G76206-5	. DECAL, On	1	
-5	58G76206-7	. DECAL, Off	1	
-6	58G76207-2	. DECAL, Radio junction panel	1	
-7	58G76207-9	. DECAL, Channel selector remote switch caution (red)	2	
-8	58G76207-11	. DECAL, 28 volt dc for VHF nav. test equipment	1	
-9	58G76207-4	. DECAL, Data case	1	
-10	58G76207-7	. DECAL, Hydraulic ground test data	1	
-11	58G76207-8	. DECAL, Stowage receptacle warning (red)	1	
-12	58G76207-15	. DECAL, Magneto	1	
-13	58G76207-16	. DECAL, Starter switch	1	
-14	58G76207-6	. DECAL, Nut on conduit finger tight and safetied	1	
-15	58G76207-14	. DECAL, Oil	1	
-16	58G76207-13	. DECAL, Fuel	1	
-17	58G76207-10	. DECAL, Manifold	1	
-18	58G76207-5	. DECAL, Torque top and bottom rear spar bolts 40-50 ft. lbs.	1	
-19	58J76211-4	. DECAL, Warning (red)	2	
-20	60B9183	. DECAL, Radio Junction Box (Schematic)	1	



1

OIL TANK FILLER
8.8 U. S. GAL.

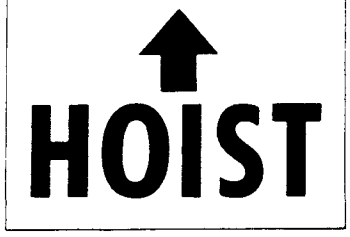
2

OIL CAP
8.8
U. S. GAL

3

HYD. RES. FILLER
& HAND HOLD.

4



5

COWL RELEASE
TURN SCREW TO
UNLOCK HANDLE

6

U.S. AIR FORCE T-28A
A.F. SERIAL NO.
CREW WEIGHT 400 LB.

7

1234567890

8

5

T-28A-4-53-18

FIGURE 274 - LH SIDE FUSELAGE DECAL PACKAGE (SHEET 1 OF 4)

9

SERVICE THIS AIRCRAFT WITH
MIL-F-5572 GRADE 91/96 FUEL
OR BETTER IF NOT AVAILABLE
T.O. 2-1-501 WILL BE CONSULTED
FOR EMERG. ACTION

14

15

HAND HOLD

10

STEP

16

PULL OUT & TURN
FOR EXIT RELEASE

11

17

CANOPY
CONTROL

18

EMERGENCY

12

CANOPY MANUAL
HANDLE

19

PUSH

20

PULL

21

FLAP MANUAL
OPERATION LEVER
DO NOT USE FOR
ENTERING AIRCRAFT

13

PUSH

T-28A-4-53-19

FIGURE 274 - LH SIDE FUSELAGE DECAL PACKAGE (SHEET 2 OF -)

22

BATTERY LOCATED ON R.H. SIDE OF NOSE WHEEL WELL ABOVE L.E. WING

23

BATTERY ACCESS

24

BATTERY

25

↑
LOW PRESSURE OXYGEN FILLER VALVE

26

OXYGEN FILLER INSIDE

27

ELECTRICAL POWER RECPT. 28 VOLTS

28

STATIC PORT KEEP HOLES AND SURFACE CLEAN

29

DATUM POINT

30

MOOR ONLY DO NOT ↓ JACK

T-28A-4-53-20

FIGURE 274 - LH SIDE FUSELAGE DECAL PACKAGE (SHEET 3 OF 4)

31

CONTROLS
ACCESS
DOOR

35

ANTENNA
CABLE
ACCESS

32

ADJUSTMENT NOTE
ADJUST LOAD TO 69.5 ± 2 LBS WHEN
EXTENDED TO 13-15/32 BETWEEN CENTERS
OF BEARING BOLT HOLES. CHECK LOAD
113 ± 10 LBS AT 14-3/8 LENGTH

36

NO
PUSH

33

V.H.F.-U.H.F.
DO NOT FINISH

37

CARB AIR FILTER

34

ANTENNA INSULATOR FINISH WITH
PAINT PER SPEC. MIL-L-7178
GREY COLOR #512
ANTENNA CONNECTION INSIDE

38

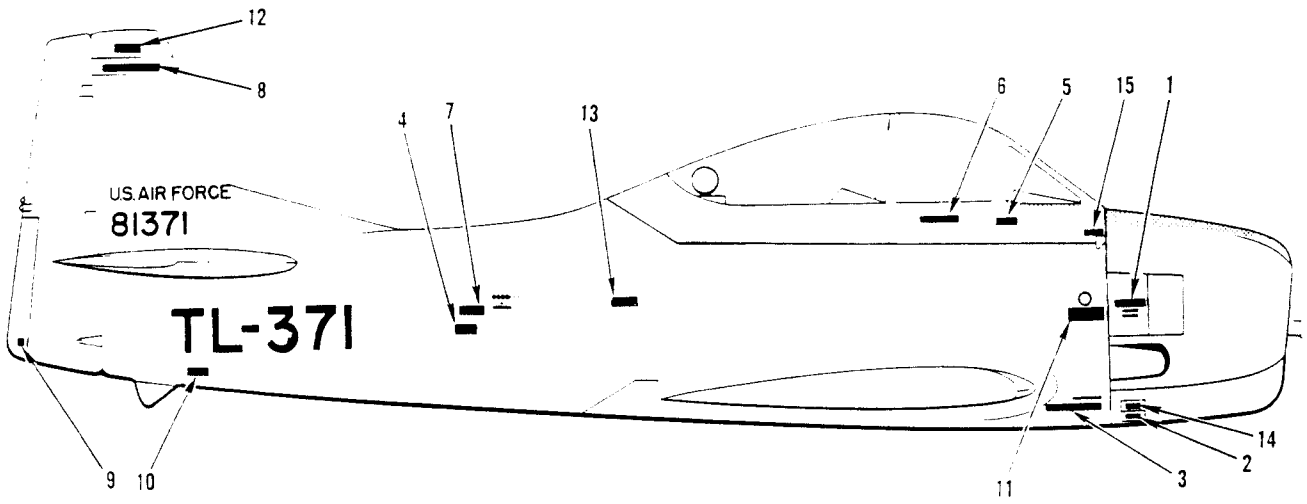
←HOIST

T-28A-4-53-21

FIGURE 274 - LH SIDE FUS DECAL PACKAGE (SHEET 4 OF 4)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
274	58H76210	DECAL PACKAGE, Fuselage LH side	1	
-1	58H76210-12	. DECAL, Oil tank filler (yellow)	1	
-2	58H76210-30	. DECAL, Oil cap 8.8 U.S. gal (yellow)	1	
-3	58H76210-18	. DECAL, Hyd res filler and hand hold	1	
-4	58H76210-24	. DECAL, Hoist	1	
-5	58H76210-22	. DECAL, Cowl release turn screw to unlock handle	1	
-6	58H76210-5	. DECAL, USAF T-28A A.F. Serial No.	1	
-7	58H76210-6	. DECAL, 1234567890	2	
-8	58H76210-31	. DECAL, 5	1	
-9	58H76210-1	. DECAL, Service this airplane with grade 91/96 fuel suitable for aromatic fuel (refer to T.O. 2-1-501)	1	
-10	58H76210-19	. DECAL, Step	2	
-11	58H76210-20	. DECAL, Step	1	
-12	58H76210-9	. DECAL, Canopy manual handle (external)	1	
-13	58H76210-36	. DECAL, Push (yellow)	2	
-14	58H76210-35	. DECAL, Arrow (yellow)	1	
-15	58H76210-28	. DECAL, Hand hold	1	
-16	58H76210-23	. DECAL, Pull out and turn for exit release (yellow)	1	
-17	58H76210-7	. DECAL, Canopy control	1	
-18	58H76210-10	. DECAL, Emergency (yellow)	1	
-19	58H76210-38	. DECAL, Push	1	
-20	58H76210-37	. DECAL, Pull	1	
-21	58H76210-14	. DECAL, Flap manual operation lever	1	
-22	58H76210-2	. DECAL, Battery located on RH side of nose wheel well above L.E. wing	1	
-23	58H76210-17	. DECAL, Battery access	1	
-24	58H76210-32	. DECAL, Battery (red)	1	
-25	58H76210-15	. DECAL, Low pressure oxygen filler valve	1	*2
-26	58H76210-16	. DECAL, Oxygen filler inside	1	*1
-27	58H76210-11	. DECAL, Electrical power recp 28 volts	1	
-28	58H76210-27	. DECAL, Static port keep holes and surface clean	1	
-29	58H76209-16	. DECAL, Datum point	1	
-30	58H76210-29	. DECAL, Moor only do not jack	1	
-31	58H76210-8	. DECAL, Controls access door	1	
-32	58H76210-39	. DECAL, Adjustment note	1	
-33	58H76210-26	. DECAL, V.H.F.-U.H.F. do not finish.	1	
-34	58H76210-3	. DECAL, Antenna insulator finish with paint per Spec MIL-L-7178 grey color No. 512 antenna connection inside	1	
-35	58H76210-21	. DECAL, Antenna cable access	1	
-36	58H76210-34	. DECAL, No push	1	
-37	58H76210-25	. DECAL, Carb air filter	1	
-38	58H76210--0	. DECAL, Hoist (arrow fwd)	1	

*1 Used on airplanes AF48-1371, AF48-1372, and AF49-1492 thru AF49-1756.
*2 Used on airplanes AF50-195 and subs.



1

COWL RELEASE TURN SCREW TO UNLOCK HANDLE

4

HOIST

2

OPEN FOR GROUND HEATER DUCT.

5

NO HAND HOLD FREE AIR TEMP BULB.

6

EMERGENCY EXTERNAL CANOPY EXIT RELEASE ON LEFT SIDE

3

WHEN JACKING BOTH NOSE & WING. JACK EVENLY TO KEEP AIRPLANE LEVEL. ↘

T-28A-4-53-8

FIGURE 275 - RH SIDE FUSELAGE DECAL PACKAGE (SHEET 1 OF 2)

7

STATIC PORT
KEEP HOLES AND
SURFACE CLEAN

13

**BATTERY LOCATED
FUSELAGE L.H.
ACCESS DOOR**

8

**ANTENNA INSULATOR FINISH WITH
PAINT PER SPEC. MIL-L-7178
GREY COLOR #512
ACCESS ON OPPOSITE SIDE**

9

**NO
PUSH**

10

**MOOR ONLY
DO NOT JACK**

11

**ENGINE
OIL VENT**

14

**GROUND FIRE FIGHTING
ACCESS DOOR**

12

**V.H.F.-U.H.F.
DO NOT FINISH**

15

HOIST

T-28A-4-53-10

FIGURE 275 - RH SIDE FUSELAGE DECAL PACKAGE (SHEET 2 OF 2)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
275	58F76213	DECAP PACKAGE , Fuselage RH side	1	
-1	58H76210-22	. DECAL, Cowl release turn screw to unlock handle	1	
-2	58F76213-3	. DECAL, Open for ground heater duct	1	
-3	58F76213-2	. DECAL, When jacking both nose and wing	1	
-4	58H76210-24	. DECAL, Hoist	1	
-5	58F76213-7	. DECAL, No hand hold free air temp bulb	1	
-6	58F76213-1	. DECAL, Emergency external canopy exit (yellow)	1	
-7	58H76210-27	. DECAL, Static port keep holes and surface clean	1	
-8	58F76213-9	. DECAL, Antenna insulator finish with paint	1	
-9	58H76210-34	. DECAL, No push	1	
-10	58F76213-6	. DECAL, Moor only do not jack	1	
-11	58F76213-4	. DECAL, Engine oil vent	1	
-12	58H76210-26	. DECAL, V.H.F.-U.H.F. do not finish	1	
-13	58F76213-5	. DECAL, Battery located fuselage LH	1	
-14	58F76213-8	. DECAL, Ground fire fighting access door (red)	1	
-15	58F76213-10	. DECAL, Hoist (arrow fwd)	1	

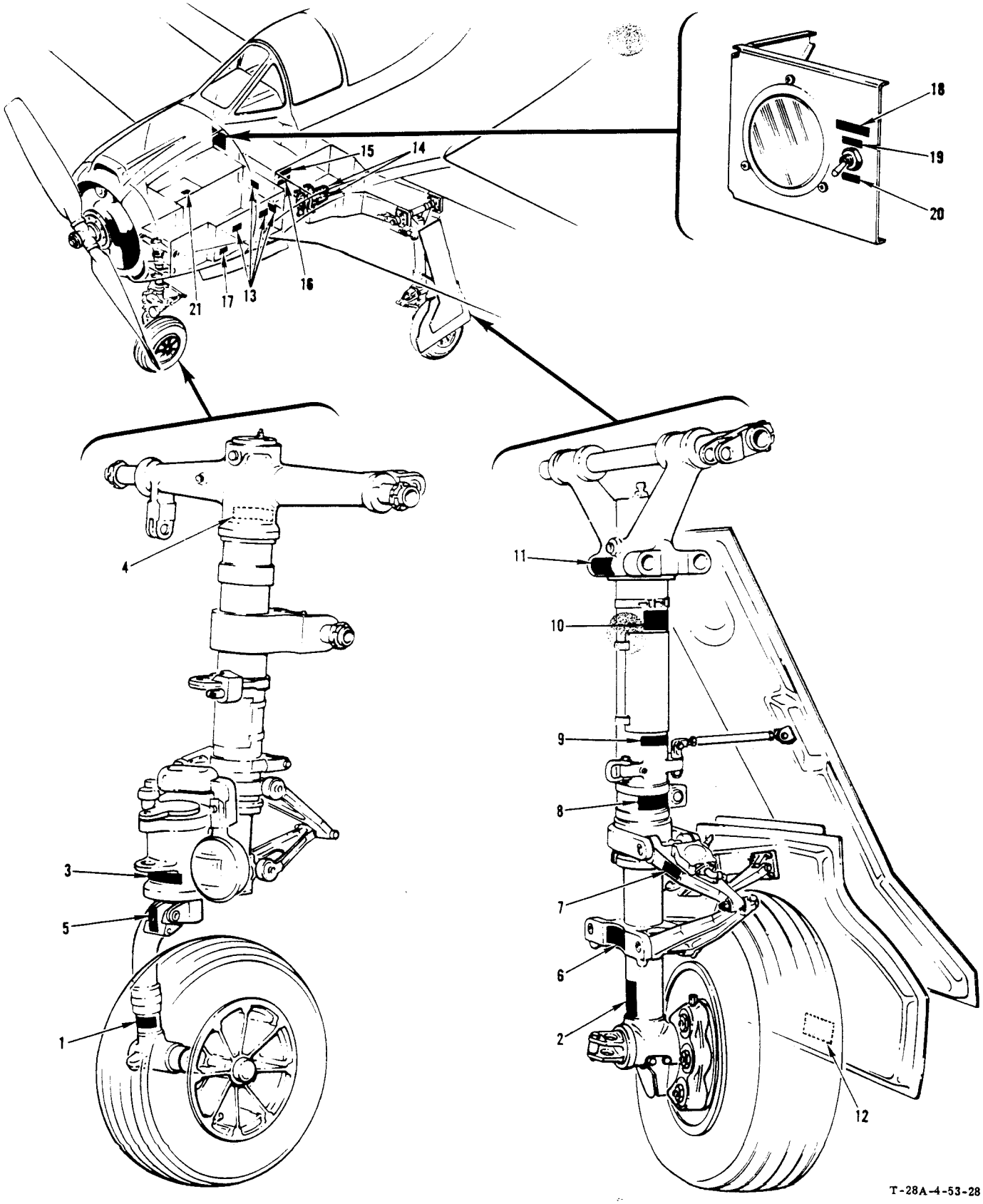
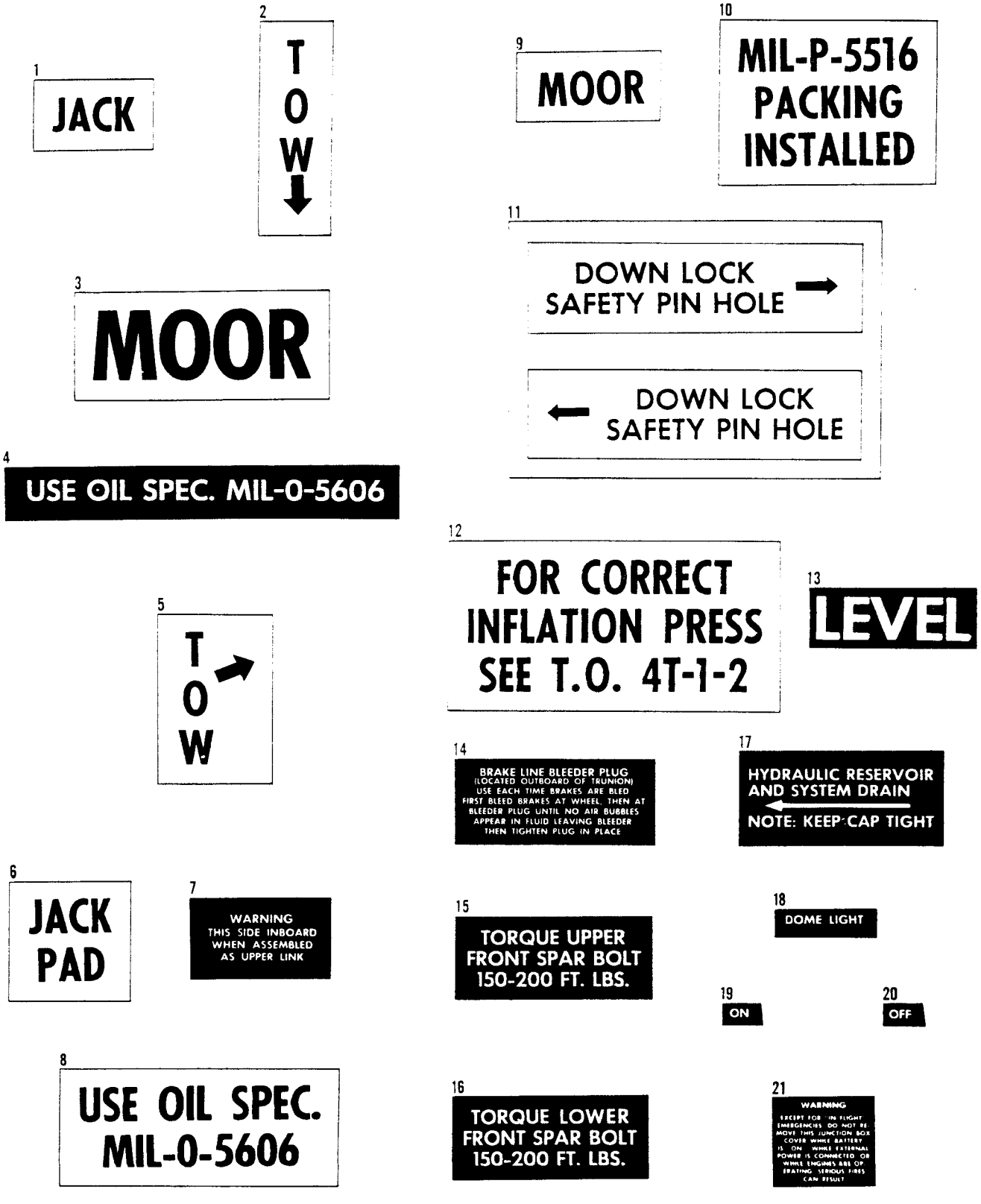


FIGURE 276 - NOSE AND MAIN WHEEL WELL AND LANDING GEAR DECAL PACKAGE (SHEET 1 OF 2)



T-28A-4-53-29

FIGURE 276 - NOSE AND MAIN WHEEL WELL AND LANDING GEAR DECAL PACKAGE (SHEET 2 OF 2)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
276	58G76206	DECAL PACKAGE, Nose and main wheel well and landing gear	1	
-1	58G76206-1	. DECAL, Jack	3	
-2	58G76206-4	. DECAL, Tow (arrow right)	1	
-3	58G76206-3	. DECAL, Moor (large letters)	1	
-4	58G76206-12	. DECAL, Use oil Spec MIL-O-5606 (red)	1	
-5	58G76206-6	. DECAL, Tow (arrow down)	2	
-6	58G76206-8	. DECAL, Jack pad	2	
-7	58G76206-21	. DECAL, Warning this side inbd when assembled as upper link (red)	4	
-8	58G76206-18	. DECAL, Use oil Spec MIL-O-5606 (red letters)	2	
-9	58G76206-2	. DECAL, Moor (small letters)	2	
-10	58G76206-19	. DECAL, Mil -P-5516 packing installed (yellow)	3	
-11	58G76206-13	. DECAL, Downlock safety pin hole (arrow right)	1	
	58G76206-14	. DECAL, Downlock safety pin hole (arrow left)	1	
-12	58G76206-20	. DECAL, For correct inflation press see T.O. 1T-1-2	3	
-13	58G76206-10	. DECAL, Level	4	
-14	58G76206-11	. DECAL, Brake line bleeder plug	2	
-15	58G76206-15	. DECAL, Torque upper front spar bolt 150-200 ft. lbs.	2	
-16	58G76206-16	. DECAL, Torque lower front spar bolt 150-200 ft. lbs.	2	
-17	58G76206-17	. DECAL, Hydraulic reservoir and system drain	2	
-18	58G76206-9	. DECAL, Dome light	1	
-19	58G76206-5	. DECAL, On	1	
-20	58G76206-7	. DECAL, Off	1	
-21	58G76211--	. DECAL, Warning (red)	1	

INDEX NO.	NOMENCLATURE	FIG. NO.
1	PANEL, Pilot's Instrument Front	99
2	PANEL, Pilot's Instrument Rear	99
3	CONTROL BOX FUEL WARNING LIGHT	98
4	AMPLIFIER, Gyromagnetic Compass	98
5	GYRO, Slaved Non-Indicating Control	98
6	TRANSMITTER, Fuel	34, 35
7	TUBE, Electrically Heated Pitot	34, 35
8	BEAM, Front Instrument Panel	101
9	BEAM, Rear Instrument Panel	101
10	RESISTOR, Thermocouple Lead	98
11	VALVE, Pressure Regulator	251
12	VALVE, Pressure Relief	251
13	SEPARATOR, Oil	251
14	THERMOMETER, Carburetor Temperature	251
15	THERMOMETER, Oil Temperature	251
16	GENERATOR, Tachometer	251
17	PUMP, Vacuum	251
18	COMPASS, Transmitter	34, 35

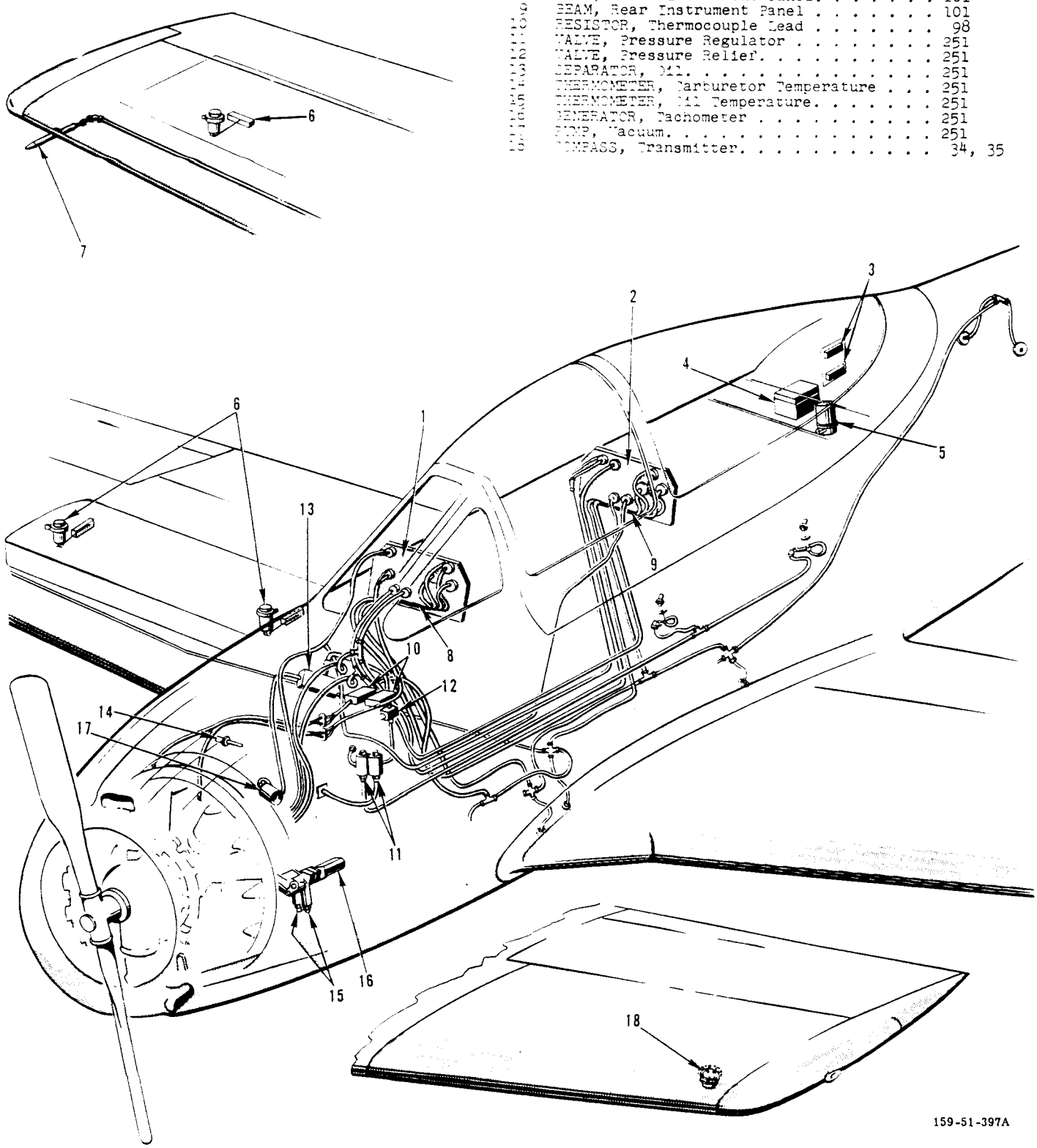
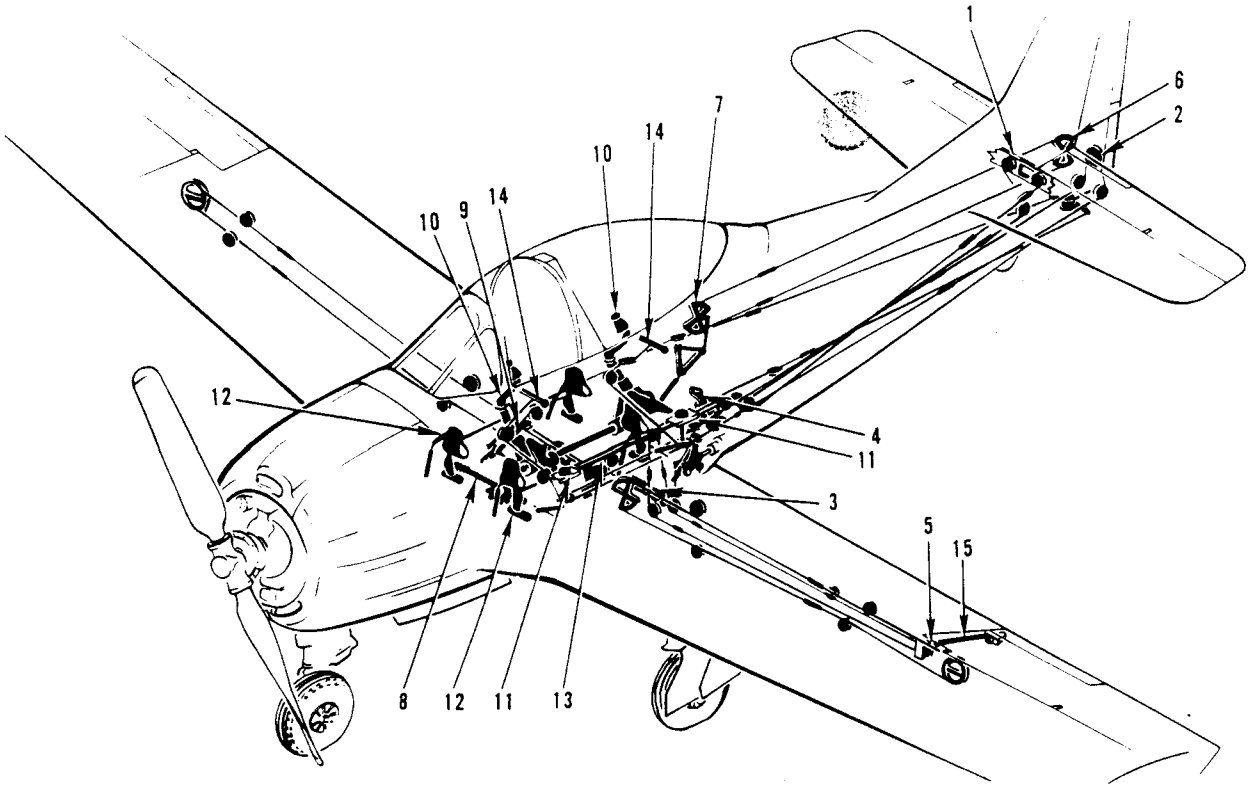


FIGURE 277 - INSTRUMENT SYSTEM

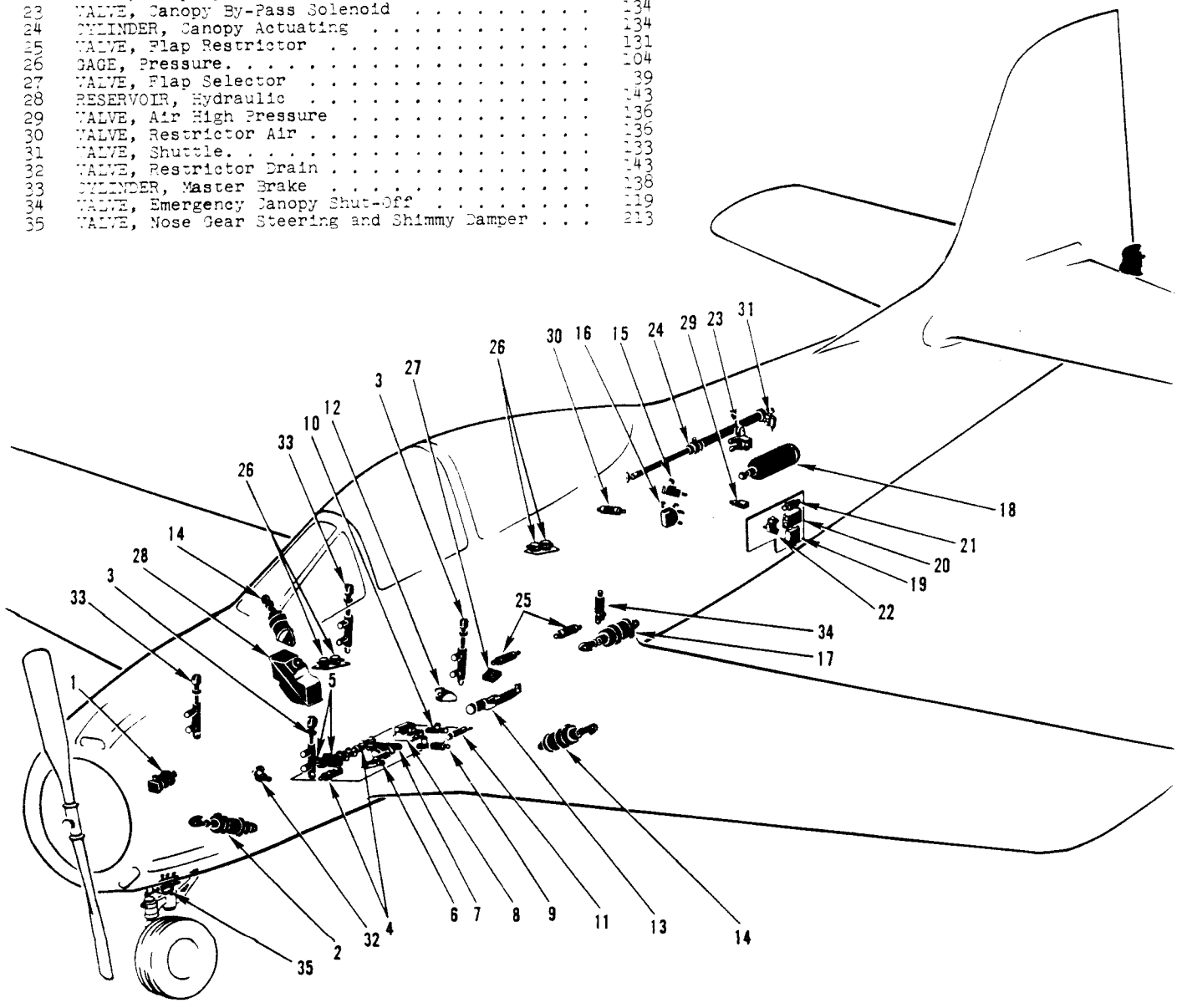
INDEX NO.	NOMENCLATURE	FIG. NO.
1	FITTING, Stabilizer to Fuselage	47
2	FITTING, Rudder Trim Tab	48
3	TUBE, Flap Torque	117
4	MECHANISM ASSEMBLY, Flap Unlock	116
5	DRUM, Aileron Trim Tab	36
6	SECTOR ASSEMBLY, Elevator	118
7	BOBWEIGHT, Elevator	107
8	TUBE, Rudder Pedal Adjustment	109
9	LOCK, Control	113
10	CONTROL STICKS, Forward and Aft	112
11	CONTROL PANELS, Trim Tab	115
12	RUDDER PEDALS, Left and Right Sides	111
13	SHAFT ASSEMBLY, Aileron Trim Tab	108
14	HANDLE, Rudder Adjustment	101
15	ARM, Aileron Trim and Boost Tab	25



159-52-430

FIGURE 278 - SURFACE CONTROLS SYSTEM

INDEX NO.	NOMENCLATURE	FIG. NO.
1	HYDRAULIC PUMP, Engine Driven	249
2	CYLINDER, Nose Gear	211
3	CYLINDER, Master Brake	137
4	VALVE, Brake Transfer	140
5	VALVE, Parking Brake	140
6	VALVE, By-Pass Depressurizing	121
7	VALVE, Relief	121
8	VALVE, Steering Selector	125
9	VALVE, Steering Solenoid Control	125
10	VALVE, Pressure	125
11	VALVE, Flow Regulator	125
12	VALVE, Landing Gear Selector	39
13	PUMP, Hand	141
14	CYLINDER, Main Gear Actuating	198
15	VALVE, Air Emergency	78
16	VALVE, Canopy Selector	78
17	CYLINDER, Flap	131
18	VALVE, Air Bottle and	136
19	VALVE, Canopy Thermal Relief	134
20	VALVE, Flap Thermal Relief	131
21	VALVE, Emergency Vent	135
22	VALVE, Flap By-Pass	132
23	VALVE, Canopy By-Pass Solenoid	134
24	CYLINDER, Canopy Actuating	134
25	VALVE, Flap Restrictor	131
26	GAGE, Pressure	104
27	VALVE, Flap Selector	39
28	RESERVOIR, Hydraulic	143
29	VALVE, Air High Pressure	136
30	VALVE, Restrictor Air	136
31	VALVE, Shuttle	133
32	VALVE, Restrictor Drain	143
33	CYLINDER, Master Brake	138
34	VALVE, Emergency Canopy Shut-Off	119
35	VALVE, Nose Gear Steering and Shimmy Damper	213



159-58-1209

FIGURE 279 - HYDRAULIC SYSTEM

INDEX NO.	NOMENCLATURE	FIG. NO.
1	GENERATOR, Wide Speed Range	252
2	STARTER, Aircraft Direct Cranking	252
3	PANEL ASSEMBLY, Engine Power Junction Lower	150, 151
4	PANEL ASSEMBLY, Engine Power Junction Upper	169
5	INVERTER, Class A Single Phase	150, 151, 154
6	PANEL ASSEMBLY, Forward Circuit Breaker	164, 165, 166
7	PANEL ASSEMBLY, Forward Cockpit Switch	163
8	PANEL ASSEMBLY, Aft Cockpit Switch	163
9	BOX ASSEMBLY, Gyro Compass Junction	170
10	LIGHT ASSEMBLY, Vapor Proof Cabin Dome	153, 154
11	SCREW JACK ASSEMBLY, Oil Cooler	152
12	RELAY, Electrically Reset Latch	157
13	LIGHT ASSEMBLY, Fuselage Lower	157
14	LIGHT ASSEMBLY, Fuselage Upper	157
15	LAMP ASSEMBLY, Tail Aircraft Yellow	157
16	LAMP ASSEMBLY, Tail Aircraft White	157
17	LIGHT ASSEMBLY, Retractable Landing	40, 41
18	LAMP, Par-36 Bulb	40, 41
19	PANEL ASSEMBLY, Gyro Compass Power	158
20	BOX ASSEMBLY, Induction Vibrator	162
21	BATTERY, Storage	150, 158
22	LIGHT ASSEMBLY, Wing Position	40, 41
23	LIGHT ASSEMBLY, Taxi	213
24	LIGHT ASSEMBLY, Auxiliary Alighting Gear Extended Indicator	213

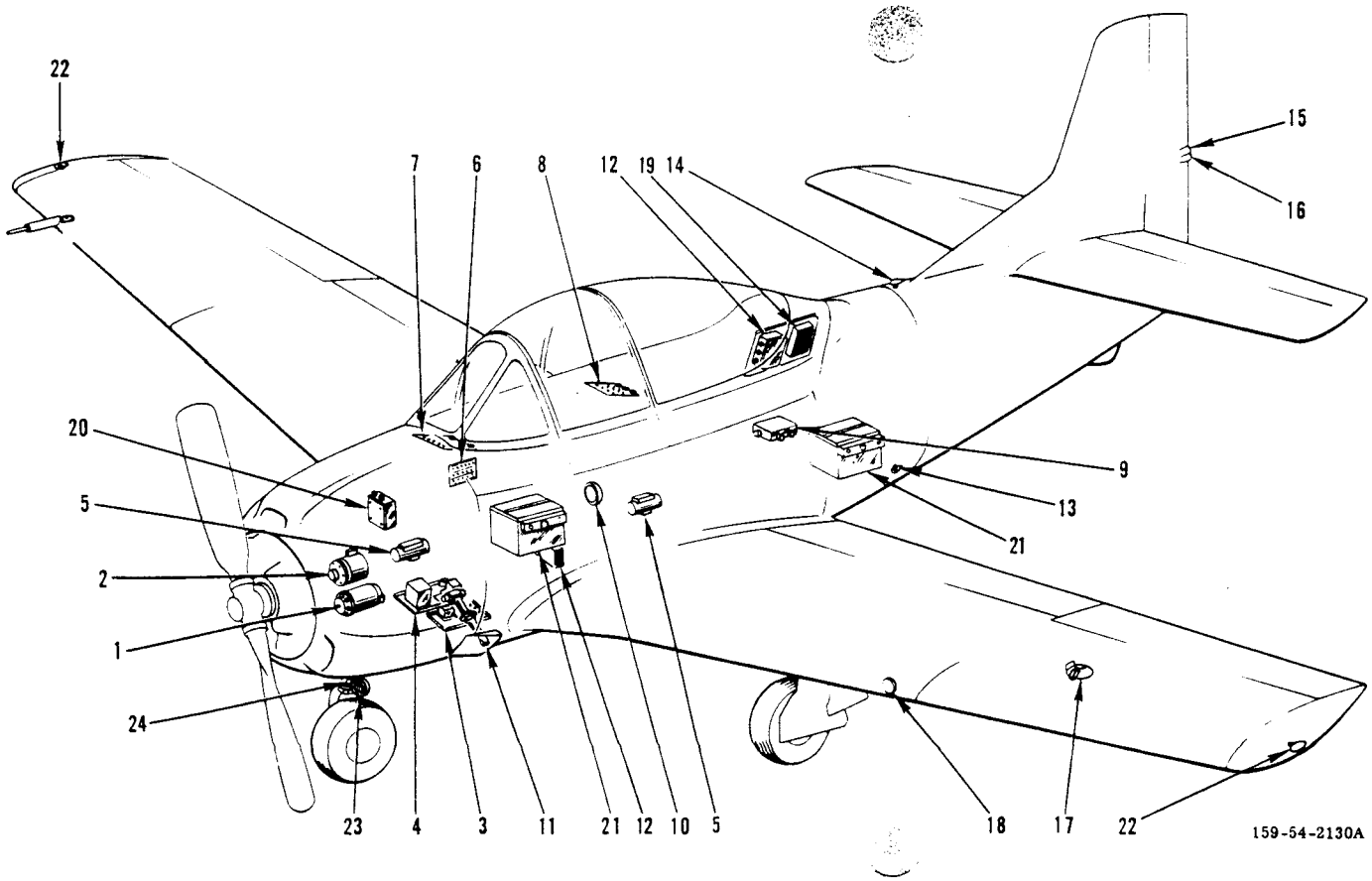


FIGURE 280 - ELECTRICAL SYSTEM

INDEX NO.		FIG. NO.
1	HEATER	197
2	DUCT, Main Distributing	192
3	VALVE, Emergency Shut-Off	196
4	VALVE, Emergency Shut-Off	196
5	OUTLET, Pilot's Side	194
6	OUTLET, Pilot's Side	194
7	OUTLET, Aft Cockpit Foot	190
8	DUCT, Defrost Supply LH	190
9	DUCT, Defroster RH	190
10	OUTLET, Pilot's Side	194
11	OUTLET, Pilot's Side	194
12	DUCT, Heater Attaching	193
13	OUTLET, Side Glass Defroster	32
14	OUTLET, Center Windshield Defroster	32
15	MANIFOLD, Forward Canopy Defrost	72
16	DUCT, Aft Canopy Defrost	72
17	DUCT, Heater Combustion Air Inlet	19
18	HOSE, Purifier to Oil Dilution Tee	247
19	VALVE, Cycling	191
20	FILTER, Heater Fuel	191
21	ROD, Main Shut-Off Control	192
22	ROD, Emergency Control	192
23	DUCT, Defrost Supply RH	193

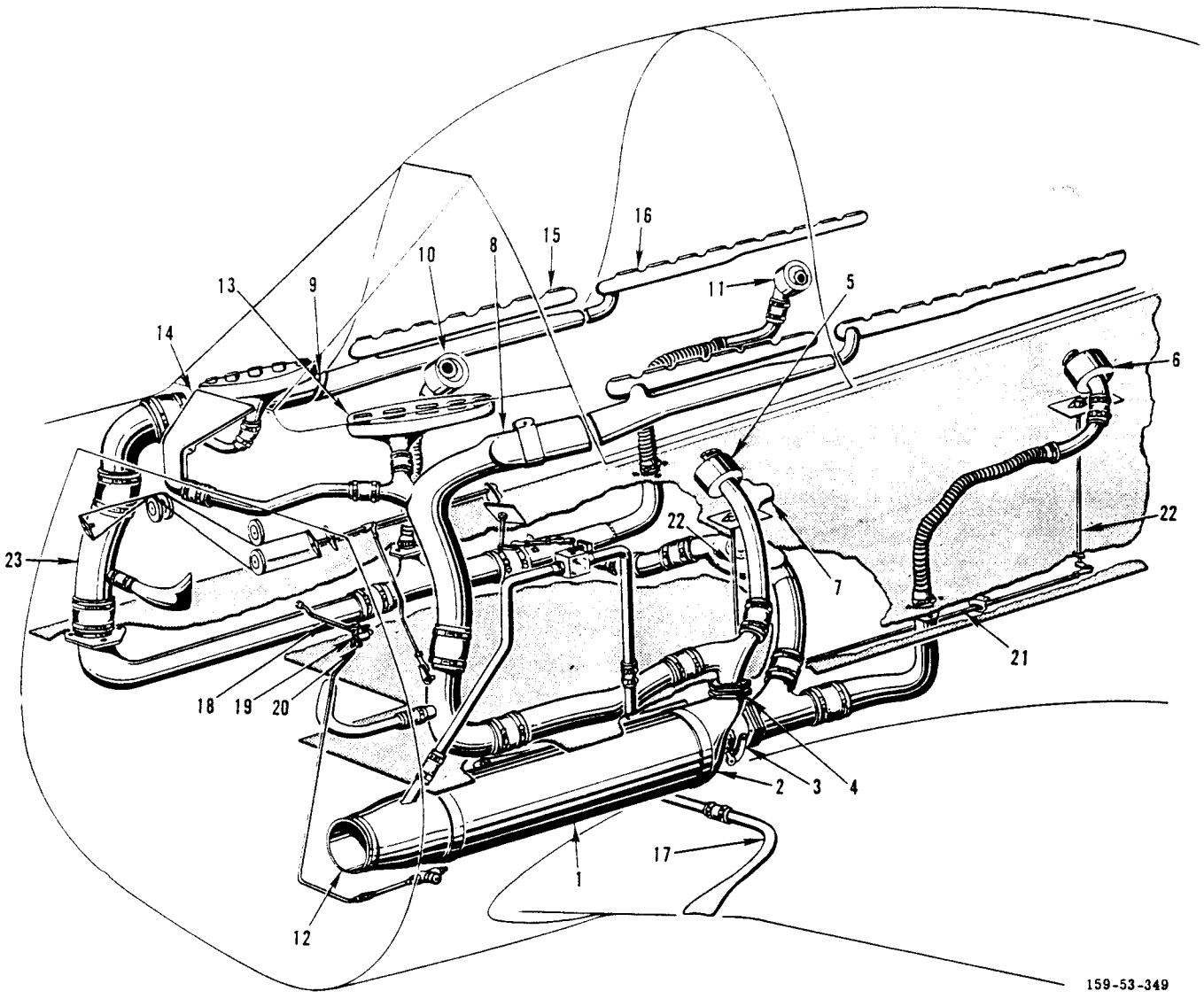


FIGURE 281 - HEATING AND VENTILATING SYSTEM

INDEX NO.	NOMENCLATURE	FIG. NO.
1	PUMP, Fuel Booster	26
2	TRANSMITTER, Quantity	34, 35
3	VALVE, Vent Slosh	33
4	VALVE, Check	26, 27
5	CONTROLS, Selector Valve	95
6	BOX, Gear	95
7	CELL, Wing Center Section Fuel	28, 29
8	ADAPTER, Fuel Quantity Transmitter	28, 29
9	COVER, Tank Access	28, 29
10	INDICATOR, Fuel Level	100
11	VALVE, Selector	90, 91
12	STRAINER, Fuel	90, 91
13	SUMP, Vapor Return	90, 91
14	PUMP, Engine Driven	90
15	CELL, Wing Outer Panel Fuel	32
16	COVER, Wing Outer Panel Tank Access	32
17	TANK, Fuselage Fuel Sump	31
18	TANK, Inverted Flight Fuel	145

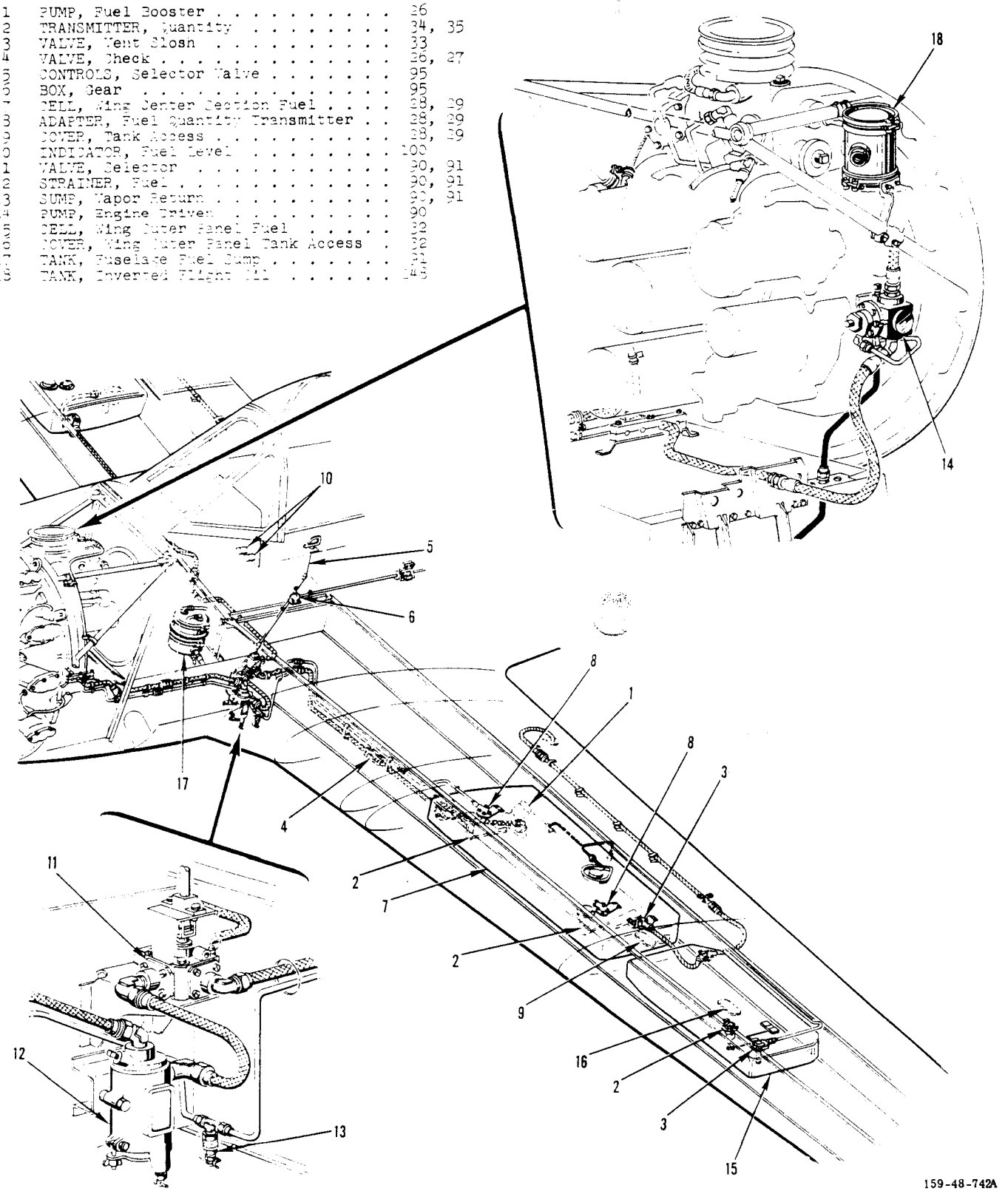


FIGURE 282 - FUEL SYSTEM

SECTION III
NUMERICAL INDEX

PART NUMBER	FIGURE AND INDEX	QTY PER ASSY
ACCELEROMETER	100	3
	100-9	
ALTIMETER	100-15	2
AMMETER	100-7	2
AMPLIFIER	98-12	2
	98-38	
	155-52	REF
	156-42	REF
	182A-31	REF
BALL	64-21	3
	116-70	
	227-21	
CAMERA	255-12	2
	266D-4	
CASING	200	3
	213	
COMPASS	186	1
CONTROL	262-6	2
	266B-2	
CONTROL GYRO	98-8	1
	155-53	REF
	156-43	REF
CYLINDER	189A-5	1
ENVELOPE	253	1
ERECTOR HEAD	266D-1	1
EXTINGUISHER	186-2	1
FLASHER	160-5	2
	161-5	
FUSE	146-37	16
	146-38	
	147-19	
	147-20	
	263-45	
	263-46	
FUSE HOLDER	146-36	7
	147-18	
	263-47	
GAGE	100	5
	100-11	
	100-22	
	100-6	
GENERATOR	252	1

PART NUMBER	FIGURE AND INDEX	QTY PER ASSY
GUN	259-7	2
	266C-4	
HANDBOOK	253	2
HEAD	266D-5	1
HEADSET & MICROPHONE	253-15	2
HEATER	259-6	2
	266C-5	
HORN-WARNING	147-46	REF
HOSE	176-7	1
INDICATOR	98-37	25
	100	
	100-1	
	100-12	
	100-14	
	100-16	
	100-17	
	100-18	
	100-19	
	100-20	
	100-21	
	100-23	
	100-8	
JAR	150-8	1
KIT	186-16	1
MODEL 44A	95	REF
MODEL 44CM4	95-22	REF
PHASE ADAPTER	155-43	3
	158-10	
	168-39	
RECORD	253	3
REGULATOR	144-26	2
	145-28	
RELAY	150-42	4
	150-45	
	151-15	
	151-18	
REPORT	253	3
RESISTOR	160-15	4
	161-14	
	168-62	
	170-16	
SCREW	232-8	1

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
SIGHT			266D-9	1	
SOLENOID			259-5	2	
THERMOMETER			98-2	1	
TRANSMITTER			35-1	2	
			156-26		
TUBE			34-6	4	
			200		
			213		
AAAC			244-18	1	
AA25745			176-49	1	
AB154			251	2	
			251-44		
AD3581			100-14	REF	
AERNO 41-7810			200-63	REF	
			213-51	REF	
AERNO 41-7811			200-28	REF	
AERNO 41-7812			200	REF	
			213	REF	
AERNO 41-7813			200	REF	
			213	REF	
AERNO 41-7815			200	REF	
			213	REF	
AERNO 42-1501			144-26	REF	
			145-28	REF	
AERNO 42-1520	3380		150-42	REF	
			151-15	REF	
AERNO 42-1530			150-45	REF	
			151-18	REF	
AERNO 42-1910			144-54	REF	
AERNO 42-2215			150-21	REF	
			151-4	REF	
			154-75	REF	
AERNO 42-2310			158-23	REF	
AERNO 42-2340			262-48	REF	
AERNO 42-2355			144-54	REF	
AERNO 42-3406			157-28	REF	
AERNO 42-3406-1			157-27	REF	
AERNO 42-375			158-46	REF	
AERNO 42-710			162-17	REF	
AERNO 42-780			262-50	REF	
AERNO 42-8803			252-2	REF	
AERNO 45-1705			187-1	REF	
AERNO 45-1706			187-1	REF	
AERNO 45-1710			187-5	REF	
AERNO 45-2431			187	REF	
AERNO 45-7600			186-16	REF	
			186A-19	REF	
AERNO 45-9600			186-38	REF	
			186A-38	REF	
AERNO 46-1250			189A-5	REF	
AERNO 46-1400			189-18	REF	
AERNO 46-1600			189-15	REF	
AERNO 46-2350			189-8	REF	
AERNO 46-2640			186-24	REF	
			186A-24	REF	
AERNO 46-2910			83-20	REF	
AERNO 52-6660			112-18	REF	
AERNO 60-1050			100	REF	
AERNO 60-1200			100-10	REF	
AERNO 60-1446			186-13	REF	
AERNO 60-1476			35-1	REF	
AERNO 60-1480			98-8	REF	
AERNO 60-1482			100	REF	
AERNO 60-1702			98-12	REF	
AERNO 60-1732			98-8	REF	
AERNO 60-1754			100-20	REF	
AERNO 60-1770			100	REF	
AERNO 60-205			100-9	REF	
AERNO 60-206			100	REF	
AERNO 60-3165			100-8	REF	
AERNO 60-3166			155-26	REF	
			156-26	REF	
AERNO 60-3170			100-1	REF	
AERNO 60-3172			100	REF	
AERNO 60-3850			98-38	REF	
AERNO 60-4960			100-19	REF	
AERNO 60-4961			100-19	REF	
AERNO 60-5700			100-16	REF	
AERNO 60-5701			100	REF	
AERNO 60-5930			100-21	REF	
AERNO 60-5930-1			100	REF	
AERNO 60-5931-1			100	REF	
AERNO 60-5933			100	REF	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
AERNO 60-600			100	REF	
AERNO 60-6800			100	REF	
AERNO 60-6901			100-17	REF	
AERNO 60-700			100-15	REF	
AERNO 60-9660			35-13	REF	
AERNO 60-9700			83-21	REF	
AERNO 61-216			100-18	REF	
AERNO 61-219			251-11	REF	
AERNO 61-2306			100-6	REF	
AERNO 61-2307			100-22	REF	
AERNO 61-2308			100-11	REF	
AERNO 61-2311			100	REF	
AERNO 61-2313			100	REF	
AERNO 61-2350			104-13	REF	
AERNO 61-2350			104-3	REF	
			258	REF	
			266E-26	REF	
AERNO 61-2430			100-12	REF	
AERNO 61-700			100-7	REF	
AERNO 61-8730			251	REF	
AERNO 61-8833			100	REF	
AERNO 61-8834			100	REF	
AERNO 61-8901			251-11	REF	
AERNO 61-8906			251-13	REF	
AERNO 61-9150			98-2	REF	
AERNO 74C2250			255-12	REF	
			266D-4	REF	
AERNO 74E650		2900-249700	266D-1	REF	
AERNO 74M100			255-11	REF	
AERNO 80-4015			100-14	REF	
AF22			176-51	1	
AF30			176-18	3	
			176-28		
AF38			176-12	1	
AM142/AIC			178-1	6	
			179-1		
			180-1		
AM26/AIC			178-2	REF	
AM26A/AIC			178-2	1	
AM300/AIC			179-2	2	
			180-2		
AN 01-60FGA1			253	1	
AN 01-60FGA2			253	1	
AN 01-60FG6			253	1	
AN 03-25BH2			213-2	REF	
AN 03-25EJ2			200-61	REF	
			213-53	REF	
AN 03-25GBB2			137-9	REF	
			138-26	REF	
AN 03-30CX2			131-9	REF	
			133-21	REF	
			211-47	REF	
			216-15	REF	
AN 03-30CX4			119-17	REF	
			131-17	REF	
			134-18	REF	
			136-16	REF	
AN 11-70BD6			262	REF	
AN 16-1-66			253	1	
AN 16-30AIC10-1			253	1	
AN 16-30ARA26-1			253	1	
AN 16-30ARC27-2			253	1	
AN 16-30ARC3-2			253	1	
AN 16-30ARN12-6			253	1	
AN 16-30ARN14-6			253	1	
AN 16-30ARN18			253	1	
AN 16-30ARN6-2			253	1	
AN 16-30ARN7-2			253	1	
AN 16-40RC193-2			253	1	
AN 16-40RC193-3			253	REF	
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AN/ARC27			253	REF	
AN/ARN12			253	REF	
AN/ARN14			253	REF	
AN/ARN18			253	REF	
AN/ARN6			253	REF	
AN/ASA3			3-33	6	
			178-47	REF	
AN-C146A			186	REF	
AN-C55			200	REF	
			213	REF	
AN-N6			255-12	REF	
AN-T788			200	REF	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART.	SOURCE CODE
AN-T78B			213	REF	
AN-W6			200-26	REF	
			213-51	REF	
AN10-25A			43-26	4	
AN12H20			260-6	2	
AN155-16L		6500-004575	159-22	1	
AN155-16S		6500-005053	116-6	4	
AN155-32L		6500-004595	36-38	14	
AN155-32S		6500-005073	76-5	3	
AN155-5S		6500-004025	264-18	2	
AN155-8L		6500-004565	3-31	7	
AN155-8S		6500-005043	69-7	9	
AN161-16LS		5340-257-3772	159-11	2	
AN161-16RS		6500-440400	116-5	3	
AN161-22LL			76-13	2	
AN161-32LL			79-50	1	
AN161-32LS			76-4	3	
AN161-32RL		6590-300500-375	76-21	1	
AN161-32RS			88-5	1	
AN161-8LS		6500-439950	69-19	1	
AN165-16S			116-16	2	
AN165-32L			106-57	2	
AN165-8R5			69-8	2	
AN173-11		5306-180-1784	25-14	7	
AN173-12		6500-008833-227	3-7	2	
AN173-12A		6500-009956-227	39-23	2	
AN173-13A		6500-009956-228	39	1	
AN173-7A		5306-182-1520	19-31	4	
AN174-10A		5306-723-5114	137-4	3	
AN174-11A		6500-009956-324	19-47	2	
AN174-12		5306-180-1738	112-37	2	
AN174-12A		5306-292-8283	19-46	5	
AN174-13A		5306-182-1795	138-19	1	
AN174-14			3	1	
AN174-14A		5306-182-1796	19-25	4	
AN174-20		6500-008833-333	3-23	1	
AN174-25A		5306-180-2759	112-26	2	
AN174-26A			19-44	2	
AN174-30A			19-45	2	
AN174-36A			112-5	1	
AN174H12A		5305-285-5327	4-5	2	
AN175-37A			112-8	1	
AN178-27			36-7	2	
AN178-40A			203-10	1	
AN179-27			211-50	1	
AN180-32A			4-19	1	
AN182-33A			4-24	1	
AN184-60A			4-31	1	
AN184-63A			4-32	1	
AN200KP3		3110-142-4453	198-16	2	
AN200KP4		3110-142-4461	47-37	11	
AN200KP5		3110-142-4466	36-2	10	
AN200KP6		3110-142-4470	86	3	
AN200KS3		3400-300076	77-18	3	
AN200KS4		3110-142-4314	107-4	8	
AN200KS6		3110-142-4317	198-4	1	
AN200K3			56-15	2	
AN200K3L		3110-142-4277	25-27	5	
AN200K4		3110-142-4282	4-13	14	
AN200K5		3110-142-4284	111-39	8	
AN201KP3A		3110-142-4451	116-63	10	
AN201KP4A		3110-142-4456	231-8	2	
AN201KP5A		3110-142-4464	12-18	4	
AN201KP8A		3110-142-4472	36-11	8	
AN201K3A		3110-142-4279	73-12	20	
AN201K4A		3400-300109	110-50	8	
AN201K5A		3400-300143	73-10	4	
AN201K6A		3110-142-4285	47-15	3	
AN201K8A		3110-142-4287	36-35	15	
AN206DSP3		3110-198-0335	199-54	2	
AN206DS3		3400-300057	25-24	3	
AN207DP4		3110-142-4434	47-38	2	
AN207D4		3400-300101	9-14	19	
AN210-1A		3020-528-0490	22-2	30	
AN210-2A		3020-528-0489	22-14	33	
AN210-3A		6500-629100	22-1	17	
AN210-4A		3020-277-1128	22-13	19	
AN218-4		3400-418007	78-63	10	
AN218-5			77-9	4	
AN23-10		5306-151-1962	116-4	3	
AN23-10A		6500-080000	89-40	6	
AN23-11		5306-151-1963	76-10	3	
AN23-12		5306-151-1964	59-6	3	
AN23-13		5306-151-1965	116-15	1	
AN23-14		5306-151-1966	198-29	3	
AN23-15		5306-151-1967	106-31	5	
AN23-16		5306-151-1968	132-7	2	
AN23-17		5306-151-1869	198-25	24	
AN23-17A		5306-150-9913	113-20	1	
AN23-18		6500-070100	138-36	1	
AN23-19		5306-151-1971	208-3	1	
AN23-21		5306-151-1973	206-39	1	
AN23-21A		5306-150-9917	113-19	2	
AN23-24		6500-070160	88-8	2	
AN23-32			204-9	1	
AN23-34		6500-070250	198-24	2	
AN23-36			211-8	1	
AN23-9		5306-151-1961	105-18	1	
AN23-9A		5306-150-9905	188-23	4	
AN24-11		5306-156-2695	106-56	4	
AN24-13		5306-156-2697	76-1	3	
AN24-14		5306-156-2698	76-19	1	
AN24-14A		5306-156-2283	187-4	12	
AN24-18		5306-156-2702	118-29	1	
AN24-19			200-39	2	
AN24-20			4-3	8	
AN24-21		5306-151-0523	200-38	4	
AN24-22			9-11	12	
AN24-25		5306-151-0527	210-3	1	
AN24-26		6500	88-1	2	
AN24-29			134-15	1	
AN24-30			118-22	1	
AN24-70			116-45	1	
AN25-15A			188-7	4	
AN25-16		6500-072170	199-11	2	
AN25-21			217-5	1	
AN25-34			254-8	8	
AN253-2-1050			60-21	1	
AN253-2-175			186A-10	1	
AN253-2-275			63-23	1	
AN253-2-302			57	1	
AN253-2-304			57	1	
AN253-2-312			61-36	1	
AN253-2-325		5315	82-16	1	
AN253-2-3944			25	2	
AN253-2-400		5315	237-26	2	
AN253-2-4162			46-3	REF	
AN253-2-475			63-20	1	
AN253-2-725.			261-56	4	
AN253-2-838			242-50	2	
AN253-2-950			61-20	1	
AN253-3-1675			66-36	1	
AN253-3-169			50-29	1	
AN253-3-331			10-53	2	
AN253-3-375			63-40	1	
AN2552-3			157-19	2	
AN257XP3-300			61-38	REF	
			61-39	REF	
AN257XP4-750			261-58	REF	
AN257YP4-750			261-57	REF	
AN26-22		5306-156-2834	86	1	
AN27-26			117-42	2	
AN27188			95-13	2	
AN28-56			111-32	4	
AN3-10		5306-144-3649	242-42	1	
AN3-10A		5306-151-0784	45-24	48	
AN3-11		5306-144-3650	114-12	1	
AN3-11A		5306-151-0783	42-42	23	
AN3-12		5306-144-3651	64-18	1	
AN3-12A		5306-151-0782	6-5	34	
AN3-13A		5306-151-0781	20-27	41	
AN3-14A		5306-151-0780	136-27	20	
AN3-15A		5306-151-0779	52-21	21	
AN3-16A		5306-151-0778	214-9	1	
AN3-17		6500-014120	118-60	4	
AN3-17A		5306-151-0777	198-42	5	
AN3-20A		5306-151-0776	51-15	3	
AN3-21A		5306-151-0775	135-16	3	
AN3-22A		5306-151-0774	90-2	14	
AN3-23A		5306-180-1948	119-37	5	
AN3-24A		5306-150-9881	6-9	3	
AN3-25A		5306-150-9874	218-12	3	
AN3-26A		5306-150-9875	244	1	
AN3-27			79-35	2	
AN3-27A		5306-150-9876	153-4	4	
AN3-3A		5306-150-9221	45-23	22	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
AN3-32H			74-32	1	
AN3-35A		5306-151-2153	212	1	
AN3-36A			212-6	1	
AN3-4A		5306-151-0788	27-2	122	
AN3-40			116	1	
AN3-45A		6500-032148	140-31	3	
AN3-5		5306-144-3645	213-51	4	
AN3-5A		5306-151-0787	9-1	207	
AN3-6		5306-144-3647	91-2	6	
AN3-6A		5306-151-0786	4-37	124	
AN3-7		5306-144-3648	67-22	1	
AN3-7A		5306-151-0785	4-36	61	
AN3-9A		5306	169-34	2	
AN3H3A		5306-182-2056	27-34	12	
AN3H4A		5306-182-2057	94-1	4	
AN3H6A		6500-013875-23	246-1	27	
AN30-26			117-46	1	
AN30-40			117-47	2	
AN3021-1		3360-074032230	163-14	1	
AN3021-10		3360-074033-818	163-42	1	
AN3021-2		3360-074032250	146-57	14	
AN3021-3		5930-636-0489	175-26	8	
AN3021-6		5930-180-2540	104-6	2	
AN3021-7		5930-180-2540	263-18	2	
AN3021-8		3360-074032250	163-26	2	
AN3023-1		3360-074031685	266F-5	1	
AN3023-3		5930-636-0466	103-6	2	
AN3025-1		5945-474-4110	169-15	1	
AN3027-1		5930-228-2946	163-16	3	
AN3027-2		3360-395739059	163-12	1	
AN3027-5		3360-074032-130	163-27	1	
AN3027-8		5930-636-0488	163-18	1	
AN3028-1		5930-265-7155	163-15	1	
AN3028-3		5930-636-2711	156-5	2	
AN3028-4		5930-504-6934	163-17	REF	
			163-38	REF	
			263-16	REF	
AN3033-7		6220-142-5109A	40-49	2	
AN3033-8		6220-299-6804A	40	2	
AN3037-7		4202	157-7	2	
AN3039-2		4202	153-70	2	
AN3042-4		6220-151-7538A	41	REF	
AN3054-10		8800-577255-35	176-27	2	
AN3054-20		3300-697460650	147-36	2	
AN3054-4		6500-489920	98-23	8	
AN3054-6		5975-295-9325	40-17	10	
AN3054-8		6500-489960	260-4	2	
AN3057-10A		5935-252-2742	40	40	
AN3057-12A		5935-280-2352	40	62	
AN3057-16A		5935-028-3612	145	73	
AN3057-20		6500-000362	263	2	
AN3057-24A		8850-101059	145	3	
AN3057-3		5935-666-4847	200-45	6	
AN3057-3A		5935-028-3613	152	4	
AN3057-4A		5975-309-3272	152	37	
AN3057-6A		5935-280-2195	40	83	
AN3057-8A		5935-666-4861	40	40	
AN3064-6		5935-240-4272	162-14	1	
AN3066-6		5975-296-0534	162-15	1	
AN3067-3			200-56	1	
AN3067-5		6600-751396	212	1	
AN3092-1			200-44	4	
AN3095-7		4202	40-8	2	
AN3099-7		6220-669-5544	157	1	
AN310-10		5310-167-1291	131-2	1	
AN310-12		5310-167-1292	260-5	2	
AN310-3		5310-167-1284	5-5	12	
AN310-4		5310-167-1285	3-21	39	
AN310-5		5310-167-1286	36-33	16	
AN310-6		5310-167-1287	51-10	5	
AN310-7		5310-167-1288	134-4	1	
AN310-8		5310-167-1289	36-5	4	
AN310-9		5310-167-1290	211-35	1	
AN3100-12S3S			260-37	2	
AN3100-14S2S		8850	152-34	2	
AN3100-14S7S			144-2	2	
AN3100-14S9P			252-20	1	
AN3100-16-10S			151-40	1	
AN3100-16-8S			144-6	1	
AN3100-16S1P			260-3	2	
AN3100-16S1S			40-14	5	
AN3100-16S8S		4202	145-6	1	
AN3100-18-1P			145-18	2	
AN3100-18-1S		4202	40-29	3	
AN3100-18-8S			40-15	2	
AN3100-20-16S			41	2	
AN3100-20-21S			40	1	
AN3100-20-27P			145-19	1	
AN3100-20-29P			154-29	1	
AN3100-22-14P			145-15	2	
AN3100-22-14S			144-7	5	
AN3100-24-10S			145-20	1	
AN3100-24-11P			145-17	1	
AN3100-24-28P			145-16	1	
AN3100-24-28S			145-14	3	
AN3100-24-7P			151-46	1	
AN3100-24-7S		4202	149-6	1	
AN3100-28-11P			152-25	1	
AN3100-28-12S			149-5	1	
AN3100-28-16S			265-6	1	
AN3100-36-2S			144-8	2	
AN3101-14S2S			40-16	4	
AN3101-14S5S			146-13	1	
AN3101-16S1S			144-52	3	
AN3101-18-1P			144-18	1	
AN3101-18-13P			144-20	1	
AN3101-18-8P			179-21A	1	
AN3101-18-9P			176-54	1	
AN3101-20-16P		4202	41-35	1	
AN3101-20-21S			146-24	2	
AN3101-20-29P			148-14	1	
AN3101-20-29S			144-14	5	
AN3101-22-14P			144-22	2	
AN3101-22-14S			146-52	3	
AN3101-24-11P			266E-51	2	
AN3101-24-28P			149-7	1	
AN3101-24-28S			144-12	3	
AN3101-24-7P			40-46	3	
AN3101-24-7S			146-45	3	
AN3101-28-11P			144-16	2	
AN3101-28-12P			144-28	3	
AN3101-28-12S			146-21	3	
AN3102-14S2P			158	1	
AN3102-14S2P			155-54	3	
AN3102-14S5P			170-4	2	
AN3102-14S5S			170-5	4	
AN3102-14S9P			162-11	1	
AN3102-16S1S			171-9	1	
AN3102-18-12P			158-7	1	
AN3102-20-27S			170-3	3	
AN3102-20-29P			266-17	2	
AN3102-20-29S			170-2	2	
AN3102-20-7S		8850-563880	160-7	5	
AN3102-22-14S			266-19	2	
AN3102-22-4S			182-21	2	
AN3102-24-11P			266-16	2	
AN3102-24-28P		8850-605629	160-9	1	
AN3102-28-12P		8850-609900	266-21	1	
AN3102-32-13P			266-20	1	
AN3102-32-13S			266-18	1	
AN3102A20-33S		5935-549-1385	172-6	2	
AN3102M20-27S			179-39	32	
AN3106-10SL3S		8850-257006	153-37	23	
AN3106-10SL4S		8850-223620	260-39	2	
AN3106-10S2S		8850	152-5	3	
AN3106-12S3P			176-52	1	
AN3106-12S3S		4202	152-12	5	
AN3106-12S4S			252-7	1	
AN3106-14S1S			153-41	2	
AN3106-14S2S			41-4	31	
AN3106-14S5P		8850	146-14	8	
AN3106-14S5S		8850-287640	153-45	6	
AN3106-14S7P			144-3	2	
AN3106-14S7S			144-9	5	
AN3106-14S9S			252-15	1	
AN3106-16-10P			151	1	
AN3106-16S1P			40-10	10	
AN3106-16S1S		8850-310593	40	8	
AN3106-16S8P			144-5	2	
AN3106-16S8S			144-30	2	
AN3106-18-1P		4202	41	1	
AN3106-18-1S			144-19	3	
AN3106-18-10S			152-3	1	
AN3106-18-12S			254-3	4	
AN3106-18-13S		4202	144-21	1	
AN3106-18-5S			40-9	4	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
AN3106-18-8P			40-11	3	
AN3106-18-8S			263-1	1	
AN3106-20-16P			41	3	
AN3106-20-16S	4202		147	2	
AN3106-20-21P			40-47	2	
AN3106-20-27P	8850	353350	155-47	2	
AN3106-20-27S	8850	351550	145	5	
AN3106-20-29P			41-37	6	
AN3106-20-29S	4202		145-21	7	
AN3106-22-14P			40-45	9	
AN3106-22-14S	4202		144-33	4	
AN3106-22-19S			265-30	2	
AN3106-24-10P			145	1	
AN3106-24-11S			145	4	
AN3106-24-28P	8850	383000	145-12	7	
AN3106-24-28S	4202		145	12	
			182-5		
AN3106-24-7P			148-10	2	
AN3106-24-7S			145	8	
AN3106-28-11S			144-17	4	
AN3106-28-12P			146-22	2	
AN3106-28-12S			144-13	9	
AN3106-28-16P			265-28	1	
AN3106-32-13P	4202		265-10	1	
AN3106-32-13S			263-3	1	
AN3106-36-2P			252-23	1	
AN3106M14S5S	8850	287640-72	181A-32	2	
AN3106M18-1S	8850	338890-72	180A	2	
AN3106M20-29S	8850	360333-72	182-17	2	
AN3106M22-14P	8850	368656-72	181A-31	2	
AN3106M22-14S	8850	367162-72	177	10	
AN3106M22-14S5S			181-3D	1	
AN3106M24-20P	5935	296-9000	181-14	2	
AN3106M24-5P	8850	359461-72	181-15	2	
AN3106M24-7S	5935	244-9974	181-13	2	
AN3107-14S2P			254-2	4	
AN3107-14S2S			40-24	4	
AN3108-10SL3S			153-38	3	
AN3108-10SL4S	8850	223460	152-4	1	
AN3108-10S2S			152-6	2	
AN3108-12S3S			152	1	
AN3108-14S1S			252-8	1	
AN3108-14S2S			149	5	
AN3108-16S1S	8850	310298	177-11	2	
AN3108-18-1S			147-35	6	
AN3108-18-12S			149-10	1	
AN3108-18-9S			176-26	3	
AN3108-22-14S			265-32	1	
AN3108-22-24S			265-1	1	
AN3108-28-16S			265-31	1	
AN3108-8S1S			252-10	1	
AN3108M14S5S	8850	287145-72	182-19	2	
AN3108M16-10S			180A-25	1	
AN3108M20-27S	8850	351750-72	182-18	2	
AN3108M22-14S	5935	258-8916	180A	2	
AN3108M24-28S	8850	382000-72	180A	2	
AN3108M24-5S	5935	259-1844	181-6	2	
AN3108M24-7S	8850	358498-72	181-7	2	
AN3120-1047			157-27	REF	
			157-28	REF	
AN3121-313	6240	155-8714	99-14	40	
AN3131-303	8870	744000-775	146-27	46	
AN3136-323			146-33	2	
AN3140-327	6240	155-7836	146-31	7	
AN3144-4505			40-22	1	
AN3144R4505			41-20	1	
AN315-3	4730	289-1622	75-10	8	
AN315-3L	5310	167-1331	78-56	1	
AN315-3R	5310	167-1343	202-8	2	
AN315-5R	5310	167-1345	24-5	2	
AN3150-2	4904		150-15	2	
AN3155-25-200			263-63	2	
AN3155-50-150			266B	2	
AN3155-50-7S	5905	259-6202	147-3	2	
AN3156-3	4904	6140-321-2281	66-46	3	
AN3157-2	7700	549373	99-13	3	
AN3157-3	7700	549317	175-27	16	
AN3157-4	6210	283-9264	99-16	24	
AN3157-6	7700	549377	163-22	1	
AN3157-9	4202		263-11	2	
AN3158-1	4202		157-37	REF	
AN3158-2	4202		157	1	
AN316-10L			117-51	1	
AN316-10R	5310	268-6054	117-52	1	
AN316-4	5310	316-8956	107-28	5	
AN316-4L	5310	167-1295	192-29	1	
AN316-4R	5310	497-3803	110-10	31	
AN316-5	6500		107-25	1	
AN316-5L	5310	167-1297	199-16	4	
AN316-5R	5310	167-1298	3-25	61	
AN316-6R	5310	167-1300	107-11	15	
AN316-7L	6500	475400	117-38	1	
AN316-7R	5310	167-1302	117-39	2	
AN316-8R	5310	167-1304	117-67	1	
AN316-9R	6500	475650	225-9	1	
AN3161P10	4202		164-6	46	
AN3161P15	5925	270-5924	164-9	16	
AN3161P20	5925	518-5284	164-8	3	
AN3161P25	5925	518-5280	165-7	2	
AN3161P35	5925	254-2675	164-12	4	
AN3161P5	5925	174-8803	158-25	154	
AN3166-1	4202		152-13	2	
AN3168-1	5930	548-9362	152-7	1	
AN3177-1	6220	283-9805A	157-28	1	
AN3177-3	6220	283-9333	157-27	1	
AN3177-9	6220	283-9334A	157	2	
AN320-10	5310	176-8114	117-48	11	
AN320-3	5310	176-8107	39-2	55	
AN320-4	5310	176-8108	4-1	48	
AN320-5	5310	176-8109	72-23	10	
AN320-6	5310	176-8110	64-14	6	
AN320-7	5310	176-8111	117-43	2	
AN320-8	5310	176-8112	111-30	4	
AN320-9	5310	176-8113	198-32	5	
AN320D14			213-5	1	
AN3203V30	2303		100-13	1	
AN3210-1	3360	073413070	152-8	3	
AN3212-1			159-4	REF	
AN3216-1	5930	253-8804	168-32	2	
AN3220-2	3320	083351870	263-64	3	
AN3220-3	5355	667-9280	266F	1	
AN3225-1	3360	071815230	103-5	2	
AN3226-1	5930	636-0508	263-22	2	
AN3227-1	5930	636-2286	163-11	1	
AN3233-5			200-59	1	
AN3234-1	5930	253-8796	214-46	14	
AN3303-1	3380	511110-8275	178-39A	21	
AN3306-1	5945	254-1345	160-8	5	
AN3308-1	5945	254-1346	158-8	3	
AN3311-1	3380	077551211	180A-12	1	
AN3316-1	3380	077551830	157-1	3	
AN3316-2	3380	077553240	157-1	REF	
AN3320-1	5945	258-3424	151-27	2	
AN335B6			144-44	6	
AN3370-2	5945	259-0541	157-17	4	
AN3371-2			169-18	1	
AN340-6	5310	176-8133	40-6	633	
AN340-8	5310	176-8135	150-47	42	
AN340B8			144-22	16	
AN341-10	5310	222-0672	169-26	6	
AN341-416	5310	579-1786	101-48	8	
AN341-6	5310	222-0674	99-17	377	
AN341-8	5310	222-0673	160-10	2	
AN341B416			144-40	4	
AN3433-2-2	6150	548-1734	266B-41	2	
AN3436-10-4			147	1	
AN3436-2-1	5940	500-7913	41	7	
AN3436-2-10	8880	501081-3755	183A-8	4	
AN3436-2-11	5940	504-4013	183A-9	1	
AN3436-2-12	5940	636-6463	183-9A	2	
AN3436-2-13	5940	642-1553	172-21	1	
AN3436-2-18	5940	504-3187	183A-5	6	
AN3436-2-2	5940	500-7914	41-3	6	
AN3436-2-20	5940	504-3189	183A-7	1	
AN3436-2-3			152-26	4	
AN3436-2-4	5940	500-8030	151-48	4	
AN3436-2-5	5940	500-8033	171-15	2	
AN3436-2-6	8880	399650130	41-30	12	
AN3436-2-7	5940	500-8036	41	4	
AN3436-2-8	5940	500-8018	180A-51	25	
AN3436-2-9	5940	504-4008	180A-16	10	
AN3499-1			151	3	
AN3502-2A	6210	240-3313	163-5	18	
AN3513-1			144-54	4	
AN3533-1			144-54	REF	
AN360-3	6500	498900	188-49	4	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
AN363-524		6500-514365	220-29	16	
AN363-624		5310-281-3389	252	6	
AN363C1032		5310-263-2862	25-32	48	
AN363C428		5310-497-3898	101	6	
AN363C832		5310-207-9720	80-15	16	
AN3632-1			252-1	1	
AN364-1032		5310-680-7511	82-12	64	
AN364-428		5310-595-7475	6-20	115	
AN364-524		6500-523200	188-6	4	
AN364-624		5310-262-6354	13-11	5	
AN364-632		6500-522875	185-6	46	
AN364-720		5310	135-6	1	
AN364-820		5310-275-2042	203-5	1	
AN364-832		6500-523024	95-51	9	
AN364-918		6500-523370	242-4	1	
AN36481032		6500-512660	101-12	4	
AN365-1018		5310-208-9253	4-17	5	
AN365-1032		5310-285-7061	9-3	894	
AN365-1216		5310-497-3874	4-21	1	
AN365-1414			4-25	2	
AN365-428		5310-274-8352	6-15	511	
AN365-440		5310-285-7085	40-1	207	
AN365-524		5310-515-9365	5-8	114	
AN365-624		6500-514400	3-28	48	
AN365-632		6500-513500	82-33	111	
AN365-720			47-43	14	
AN365-820		5310-188-3426	42-19	5	
AN365-832		5310-266-4461	3-18	102	
AN365-918		6500-514655	47-47	1	
AN365B1032		6500-512300	186-8	2	
AN365B428		6500-512500	264-4	8	
AN365B632		5310-266-4422	6-18	2	
AN365B832		5310-285-7071	101-53	10	
AN365F428			86-35	1	
AN385-30-6			214-55	1	
AN385-30-7			214-56	1	
AN385-60-3			144-46	1	
AN385H20P6			95-9	11	
AN386-1-6A			227-2	2	
AN386-1-7A		5315-198-8093	228-4	2	
AN386-1-8A			209-20	2	
AN386-2-11A		6500-607936	203-38	3	
AN386-2-12A			209-59	2	
AN386-2-14			206-23	7	
AN386-3-10A			217-6	1	
AN386-3-7A			141-22	2	
AN386-3-9A			217-3	1	
AN392-11		6500-539200	64-16	2	
AN392-13		5315-235-1156	155-17	4	
AN392-17		5315-235-1154	75-17	1	
AN392-19		5315-235-1153	132-2	1	
AN392-21		5315-235-1152	73-13	1	
AN392-25		5315-235-1150	72-29	1	
AN392-27		5315-235-1149	256-15	12	
AN392-43		6500-540480	75-28	1	
AN392-61			219-21	1	
AN392-7		6500-539000	204-17	2	
AN392-9		5315-235-1158	75-20	7	
AN393-11		5315-235-1203	55-10	10	
AN393-13		5315-235-1202	187-7	6	
AN393-15		5315-235-1201	113-6	1	
AN393-17		5315-235-1200	66-43	7	
AN393-19		5315-199-3790	69-13	2	
AN393-23		5315-235-1206	142-10	4	
AN393-31		5315-235-1187	261-6	2	
AN393-33		5315-235-1188	67-28	2	
AN393-39		5315-235-1170	89-54	1	
AN393-41		5315-235-1239	13-1	6	
AN393-47		5315-235-1236	47-18A	2	
AN393-49		5315-235-1235	48-6	1	
AN393-7		5315-235-1204	69-10	4	
AN393-9		5315-235-1184	69-17	16	
AN394-59		6530-504500-316	79-9	1	
AN395-11			256-20	6	
AN4-10		5306-144-3707	66-5	4	
AN4-10A		5306-151-1424	47-3	74	
AN4-11A		5306-151-1423	12	61	
AN4-12		6500-015160	106-13	3	
AN4-12A		5306-151-1422	12-3	25	
AN4-13		5306-144-3710	106-14	2	
AN4-13A		5306-151-1421	15-4	35	
AN4-14		6500-015180	118-26	2	
AN4-14A		5306-151-1420	42-18	19	
AN4-15A		5306-151-1419	6-17	16	
AN4-16A		5306-151-1418	47	7	
AN4-17A		5306-151-1417	7-15	20	
AN4-20A		5306-151-1416	42-9	9	
AN4-21A		5306-151-1415	65-40	8	
AN4-22A		5306-151-1414	78-20	1	
AN4-24A		5306-151-1412	110-27	5	
AN4-25		6500	188-28	4	
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AN4-27A		5306-151-1409	106-37	7	
AN4-30A		5306-151-1408	117-23	5	
AN4-32			117-27	2	
AN4-32A		5306-151-1406	111-11	5	
AN4-36A		5306-151-1402	240-28	4	
AN4-4A		5306-150-9105	50-12	6	
AN4-5A		5306-151-1427	28-9	53	
AN4-50A			233-44	2	
AN4-55A			42-13	1	
AN4-6		5306-144-3705	89-34	2	
AN4-6A		5306-151-1426	9-4	114	
AN4-7		5306-144-3706	237-22	8	
AN4-7A		5306-151-1425	9-18	2 8	
AN4-86-2			220-37	2	
AN4DD16A			101-5	4	
AN4DD24A			101	4	
AN4H13A		5306-182-1961	220-5	2	
AN4H15			26-39	4	
AN4H15A		6500-013876-32	32-15	4	
AN4H27A			4-11	1	
AN4H3A		5306-182-1924	27-33	4	
AN4H32			110-43	1	
AN4H5A		5306-182-2016	32-13	20	
AN4H6A		5306-182-2017	27-22	8	
AN4H7		5306-182-1527	110-34	1	
AN4100-1			90-30	1	
AN4103-3			247	REF	
AN4114-1			162-18	1	
AN4116R3			252-2	1	
AN4125-11			247	REF	
AN4143-1			247-15	1	
AN4171-20			247	1	
AN4172-32			247	2	
AN4181-1			162	1	
AN42-4		6500-100005	67-48	3	
AN42-6A			57	2	
AN426AD3-6			195-21	4	
AN43-10A			82-6	1	
AN43-4A			65-4	2	
AN43-42			231-17	1	
AN43-5A		5306-141-5169	237-36	REF	
			242-23	REF	
AN43-7A		6500-103827	64-51	1	
AN5-10A		5306-145-7036	117-2	6	
AN5-11		5306-151-1721	188-20	4	
AN5-11A		5306-150-9103	73-8	6	
AN5-12A		5306-151-2627	47-41	6	
AN5-13A		5306-151-2626	9-43	27	
AN5-14A		5306-151-1284	199-10	2	
AN5-15A		5306-151-1283	17-39	9	
AN5-17A		5306-151-2624	20-19	9	
AN5-20A		5306-151-2623	230-74	1	
AN5-21			72-22	1	
AN5-21A		5306-151-2622	78-23	1	
AN5-25A		5306-151-2618	77-4	1	
AN5-33A		6500-033190	42-37	2	
AN5-36A		6500-033200	111-20	4	
AN5-37A		5306-150-9234	198-10	2	
AN5-42A			118-21	1	
AN5-7A		5306-150-9102	19-22	32	
AN5H4A		5306-182-2023	224-32	2	
AN500-8-7			266B-1	4	
AN500A10-6		6700-778100	261-47	4	
AN500A10-7			39-10	2	
AN500A6-8		6700-776150	33-1	6	
AN500A8-10		6700-777350	115-14	4	
AN501-10-24			112-17	2	
AN501A10-10		6700-779050	*246-15	8	
AN501A10-6		5305-156-2717	64-30	15	
AN501A10-7		5305-156-2716	39-29	2	
AN501A416-5		6700-781990	266E-22	3	
AN501A6-4			232-50	2	
AN502-10-8		5305-150-9212	36-20	16	
AN502-416-12		5305-150-9517	26	44	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	USABLE ON CODE
AN502-416-28	6500		225-26	2	
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AN507-1032-8			18-21	8	
AN507-1032R12	5305-151-0252		18-25	5	
AN507-1032R7	5305-151-0255		32-12	8	
AN507-1032R8	5305-151-0254		8-35	36	
AN507-1032R9			29-14	4	
AN507-4R6			200-47	2	
AN507-428R10	5305-156-2415		228-31	4	
AN507-440R11	5305-282-3564		44-13	4	
AN507-440R24	5305-151-2088		215-9	12	
AN507-440R5	5305-151-2084		163-7	5	
AN507-616R28			144-45	REF	
AN507-632-5	6700		266D-22	3	
AN507-632R10	5305-144-3953		163-30	14	
AN507-632R12	5305-144-3954		163-31	6	
AN507-632R24			170-17	1	
AN507-632R32	5305-151-1810		201-19	6	
AN507-632R6	5305-144-3950		163	2	
AN507-632R8	5305		40-7	78	
AN507-8-6			233-14	12	
AN507-832R10	5305-151-2285		146-34	10	
AN507-832R14	5305-151-2283		185-4	2	
AN507-832R7	5305-151-2287		150-23	2	
AN507B1032R16			169-27	1	
AN507B428-22			144-41	2	
AN507B616R28			169-22	3	
AN507B8R10			8-22	16	
AN507C832R10			80-20	9	
AN507C832R14			80-21	20	
AN507C832R16			80	2	
AN507C832R8			80-22	8	
AN509-10-10	5305-514-9579		67-40	18	
AN509-10-11	6700		83-44	2	
AN509-10-14	6700		47-7	6	
AN509-10-18	6700		237-11	16	
AN509-10-19			48-12	2	
AN509-10-20	6700		48-11	10	
AN509-10-36			200	8	
AN509-10-39			200-14	8	
AN509-10-8	5305-297-8646		225-21	14	
AN509-10-9	6700		84-9	1	
AN509-10R10	5305-151-1549		6-3	304	
AN509-10R11	5305-151-2523		73-29	24	
AN509-10R14	5305-151-2522		157-18	4	
AN509-10R17	5305-151-2519		70-20	27	
AN509-10R18	5305-151-2518		73-28	2	
AN509-10R23	5305-151-2533		57-5	8	
AN509-10R26	6700-636385-56815		22-8	16	
AN509-10R27	5305-180-0256		20-13	24	
AN509-10R31	6700		5-3	4	
AN509-10R33			201-22	6	
AN509-10R36	6700		3-1	6	
AN509-10R6	5305-180-0265		39-28	3	
AN509-10R7	5305-182-1344		115-36	4	
AN509-10R8	5305-182-1343		83-18	33	
AN509-10R9	5305-180-0254		83-31	6	
AN509-416-10			233-36	2	
AN509-416-11			84-17	3	
AN509-416-12			84-18	6	
AN509-416-14			240-15	10	
AN509-416-16			83-8	6	
AN509-416-20			112-51	6	
AN509-416-21	5305		112	6	
AN509-416-44			200-22	6	
AN509-416-88			233-48	2	
AN509-416R12	5305-150-9580		220-25	1	
AN509-416R13	5305-150-9581		73-26	14	
AN509-416R14	5305-150-9582		17-19	66	
AN509-416R15	5305-150-9583		9-26	14	
AN509-416R16	5305-150-9584		73-27	6	
AN509-8-12			76-15	2	
AN509-8-7			26-33	4	
AN509-8-8			28-3	13	
AN509-8R12	5305-156-2359		210-23	2	
AN509-8R7	5305-180-1435		115-53	3	
AN509P10R7			6-1	12	
AN509Z19R5			101-13	4	
AN515-10R8	5305-144-3757		177-1	4	
AN515-4-12	6700-705150		214-45	4	
AN515-4-5			260-2	16	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	USABLE ON CODE
AN515-4-6	6700-704950		150-38	2	
AN515-4R10	5305-151-1380		157-35	6	
AN515-4R12	5305-151-1381		146-2	3	
AN515-4R5	5305-151-1500		44-16	5	
AN515-4R6	5305-207-1548		40-30	95	
AN515-4R7	5305-151-1378		44-14	30	
AN515-4R8	5305-151-1379		40-2	64	
AN515-6-18	5305-151-2105		232-53	2	
AN515-6-20	5305-151-2106		95-41	3	
AN515-6-24			105-20	1	
AN515-6-5	5305-206-0513		232-21	2	
AN515-6-6	6700-708150		115-7	8	
AN515-6-8	6700-708250		196-12	8	
AN515-6R10	5305-151-1232		70-49	23	
AN515-6R12	5305-151-1233		167-4	12	
AN515-6R18	5305-151-1236		152-17	4	
AN515-6R3	5305-151-1226		115-57	6	
AN515-6R4	5305-282-1227		169-1	22	
AN515-6R5	5305-151-1228		112-10	30	
AN515-6R6	5305-151-1229		82-35	26	
AN515-6R7	5305-282-1230		44-19	1 2	
AN515-6R8	5305-206-0552		70-43	76	
AN515-6R9	5305-281-9512		71-42	1	
AN515-8-10	6700-711300		78-3	9	
AN515-8-12	6700-711350		95-39	8	
AN515-8-16			150-50	1	
AN515-8-40			12-15	2	
AN515-8-48			188-68	2	
AN515-8R10	5305-207-1549		98-17	31	
AN515-8R12	5305-144-3722		262-37	51	
AN515-8R13			193-5	1	
AN515-8R14	5305-144-3723		72-31	8	
AN515-8R16	5305-144-3724		168-34	2	
AN515-8R20	5305-144-3726		266F	2	
AN515-8R4	6700-725606-616		166	2	
AN515-8R40	6700-725606-644		80-15	2	
AN515-8R5	6700-725606-618		164-1	29	
AN515-8R6	5305-206-0535		84-32	4	
AN515-8R7	5305-206-0537		24-18	125	
AN515-8R8	5305-725-0350		40-18	188	
AN515B6-12			258-8	12	
AN515B6R7	5305-150-9503		183-23	1	
AN515B8R12			101-15	2	
AN515B8R16			101-22	2	
AN515B8R7			101-25	2	
AN515B8R8	5305-151-2862		101-55	3	
AN515C8R8	6700-679604-27735		186A-9	2	
AN520-10-10	6700-715050		36-20	14	
AN520-10-12			159-3	1	
AN520-10-18			118-14	1	
AN520-10-7			196-1	6	
AN520-10-8	6700-714950		89-59	17	
AN520-10R10	5305-144-3820		39-8	119	
AN520-10R12	5305-144-3821		40-40	28	
AN520-10R13	6700		98-8	8	
AN520-10R14	5305-144-3822		144-35	5	
AN520-10R18	5305-144-3824		124-15	2	
AN520-10R22	5305-144-3826		56-29	1	
AN520-10R6	5305-207-1209		219-19	2	
AN520-10R7	5305-207-1205		157-20	9	
AN520-10R8	5305-207-1206		8-28	216	
AN520-5-10			19-9	1	
AN520-8R14			91-6	4	
AN520-8R8	5305-144-3736		150-7	1	
AN520B10R10	6700-725075-534		101-37	2	
AN526-1032-7			86-29	6	
AN526-1032R6	5305-151-2231		188-50	4	
AN526-1032R8	5305-151-2233		8	42	
AN526-632-7			173-3	2	
AN526-632R22			212-40	4	
AN526-632R32			205-19	14	
AN526-632R36			205	10	
AN526-632R9			3-32	72	
AN526-8-10			214-21	4	
AN526-832R36			200-52	3	
AN526C632R8			34-2	3	
AN530-4R6	6700-749542-25		170-1	77	
AN530-4R7			162-13	11	
AN530-4R8			40-27	16	
AN530-6R10	5305-167-2302		265-5	4	
AN530-6R4	6700-749542-35		229-14A	2	
AN530-6R8	6700-749542-45		157-26	2	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
AN535-4-6			248-36	4	
AN5525-1			251-13	2	
AN5525-2			251-11	2	
AN5531-1			251-12	1	
AN5534-1		8800-713100	98-16	2	
AN5541-1			251	2	
AN5547-2			251	1	
AN565D10-6			201-4	3	
AN565D8H3		5305-282-3394	115-20	2	
AN5743T1A			100-10	1	
AN5760-48		6003	100-15	1	
AN5760T2A		6003	100-15	1	
AN5760T4B			100	REF	
AN5766-3		6203	186-13	REF	
AN5766T1			186-13	1	
AN5766T3		6003	186	1	
AN5771-4			104	REF	
AN5771-4B			104	REF	
AN5771T4B		2303	104-3	13	
AN5790T6			100-5	1	
AN5790T6A			100-4	REF	
			100-5	REF	
AN5800-1		9905-634-1473	186A	1	
AN5803-1			186-32	1	
AN5808-1		5340-321-3980	100	REF	
AN5813-1			34-6	REF	
			35-13	1	
AN5823-1		6605-584-4227	186A-18	1	
AN5825-1			100-17	REF	
AN5825-3			100-17	REF	
AN5825T1			100-17	REF	
AN5825T3			100-17	1	
AN5825T6		6610-190-1414	100-17	REF	
AN5839-1		2303-AN5839-1	100	3	
AN5861W1			100-19	REF	
AN5861W2			100	1	
AN6-11A		5306-180-1483	56-3	4	
AN6-12		5306-151-1339	59-33	3	
AN6-12A		5306-208-1324	199-59	2	
AN6-13A		5306-180-1485	3-30	8	
AN6-15A		5306-180-1487	15-10	16	
AN6-17A		5306-208-1335	89-3	2	
AN6-20		5306-167-3686	51-6	2	
AN6-21A			188-13	4	
AN6-23A		5306-208-3666	42	1	
AN6-25A		5306-207-8362	47-30	6	
AN6H34A			248-2	2	
AN6002-1			186	2	
AN6003-4A			186-24	2	
AN6003T4A			186	2	
AN6004			189-8	4	
AN6004-1			189	REF	
AN6021-1A		5509	189-18	4	
AN6024-6		5509	83-20	1	
AN6029-1		5509	189-15	4	
AN6111-1			251-53	REF	
AN6121-2			251-54	REF	
AN6123-1			251-51	REF	
AN6200			121-32	REF	
			121-34	REF	
			121-36	REF	
AN6200-8AB			121-29	REF	
			121-41	REF	
AN6201-1			141-51	REF	
AN6207-4		4804	39-19	4	
AN6207-6		4804	78-46	3	
AN6207-8		4804	123-16	1	
AN6209-6			133-19	2	
AN6210-1			39-38	1	
AN6220-12			249	1	
AN6220-4		4804	249	1	
AN6220-8			249	1	
AN6221-12			249	1	
AN6221-4		4804	249	1	
AN6221-8			249	1	
AN6227-1		2915-526-4691	246-21	1	
AN6227-12		5330-350-1889	121-38	1	
AN6227-14		5330	143-29	1	
AN6227-17		5330-187-3638	121-33	1	
AN6227-5		5330-187-3630	215-11	12	
AN6227-7		5330-292-0618	125-7	5	
AN6227-9		6600-589209	38-8	8	
AN6230-10			143-44	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
AN6230-5		6600	143-24	1	
AN6235-4A		4330-277-3274	143-28	1	
AN6240-1			250-40	1	
AN6241-12			249-25	1	
AN6241-4			249-27	1	
AN6241-8			249-26	1	
AN6264-10D18			251-14	1	
AN6264-12D15 3/4			28-22	2	
AN6264-12D20 1/2			90-35	1	
AN6264-12D26			90-41	1	
AN6264-12D26 1/2			26-50	2	
AN6264-12D9			91-9	1	
AN6264-16D16			247-11	1	
AN6264-16D6 3/4			91-5	1	
AN6264-4-11 3/4			90-36	1	
AN6264-4-12			247-13	1	
AN6264-4-24 1/2			247-23	1	
AN6264-4-33			251-3	2	
AN6264-4-47			90-38	1	
AN6264-4-8			91-32	1	
AN6264-4-9			247-22	1	
AN6264-6-11			91-24	1	
AN6264-6-12			224-19	1	
AN6270-4-14		4720-200-0423	96-4	4	
AN6270-4-20		4720-289-2955	96-5	6	
AN6270-4-22		4720-289-2977	101-26	2	
AN6270-4-24		4720-289-2976	257-2	2	
AN6270-4-26		4720-289-6164	96-2	4	
AN6271-12-31			249-4	1	
AN6271-3-12 1/2			266E-2	1	
AN6271-3-30			260-44	2	
AN6271-4-13 1/2			249-1	1	
AN6271-4-14		6600	131-10	1	
AN6271-4-15		4720-289-2735	2	4	
AN6271-4-16			137-27	4	
AN6271-4-18			137-12	1	
AN6271-4-19		6600	249-2	1	
AN6271-4-24		4720-289-2741	138	2	
AN6271-4-25 1/2			124-2	3	
AN6271-4-25 1/4			37-11	3	
AN6271-4-28		6600	137	2	
AN6271-4-6 1/2			258-11	2	
AN6271-4-7			266E-3	1	
AN6271-6-13 1/4			38-5	1	
AN6271-6-14			130-2	2	
AN6271-6-15 3/4			38	1	
AN6271-6-20 1/2			38	1	
AN6271-6-22 1/2			38	1	
AN6271-8-15 1/2			141-58	1	
AN6271-8-17			142-8	1	
AN6271-8-30			249-3	1	
AN6287-1		4804-4820-098-5862	136-24	4	
AN6289-4		5310-282-4608	37-1	2	
AN6289D12		5310-208-5198	143-8	4	
AN6289D4		4730-277-6371	37-19	50	
AN6289D6		4730-277-5083	39-33	27	
AN6289D8		5310-208-5186	120-11	17	
AN6290-10		5330-285-9842	249-16	1	
AN6290-12		5330-251-8839	143-10	16	
AN6290-3		5330-285-9837	266C-2	2	
AN6290-4		5330-171-6327	37-3	92	
AN6290-5		5330-285-9839	266E-14	2	
AN6290-6		5330-285-9840	39-35	72	
AN6290-8		5330-285-9841	119-41	38	
AN6291-12		5330-186-1296	143-9	2	
AN6291-4		5330-186-4947	37-2	59	
AN6291-6		5330-186-1295	39-34	31	
AN6291-8		5330-186-1380	120-15	17	
AN7-13			134-12	1	
AN7-21A			117-44	2	
AN7-23A			47-46	1	
AN737-26		6500-293714-334	158-31	4	
AN737-30		6500-293714-335	150-1	12	
AN737-34		6500-293714-336	189-3	36	
AN737-38		6500-293714-337	190-37	6	
AN737-44		4730-278-9121	190-24	6	
AN737-46		6500-293714-339	197-9	6	
AN737-48		4730-278-9119	191-22	2	
AN737-56		6500-293714-343	192-3	3	
AN737-66		6500-293714-345	193-14	20	
AN737-74		6500-293714-346	190-20	4	
AN737-91		6500-293714-348	190-28	14	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
AN737-98		6500-293714-349	190-31	6	
AN737RM26		4730-278-9097	26	4	
AN737TW22		4730-278-9200	223-43	1	
AN737TW44		4730-278-9098	27-10	14	
AN737TW46		4730-278-9211	248-18	8	
AN737TW98		4730-278-9125	27-1	2	
AN74-12		5306-151-1079	26-36	4	
AN74-4		5306-151-1084	26-25	214	
AN74-5		5306-151-1083	28-4	56	
AN74-6		5306-151-1082	26-10	78	
AN742-18C		6500-326695	161-8	1	
AN742-22		6500-327005	191-5	1	
AN742D12C		6500-326514-514	186-25	4	
AN742D18C		6500-326514-6	125-4	4	
AN742D22		6500-326511-45	247-19	2	
AN742D24C		5340-514-0016	183A-12	2	
AN742D6C		5340-200-3076	214-64	1	
AN742D7C		5340-239-1352	183-5	2	
AN742D8C			150-44	3	
AN75A6			223-12	9	
AN756D12		6500-334853-5	93-14	2	
AN761D12			93-15	1	
AN762D12			93-16	1	
AN763-12		6500-442080-35	93-17	2	
AN776-12			248-25	1	
AN783D4		4730-278-8410	127-34	2	
AN783D8		4730-277-5029	120-29	1	
AN8-12A			52-10	4	
AN8-23A			42-22	1	
AN8003-1			112-21	2	
AN8008D1		5340-597-6329	98-34	4	
AN8008D10		6600-551422	59-49	8	
AN8008D6			53-26	6	
AN8013-1		5310-169-0892	257-5	16	
AN8013D2		5310-167-0890	101-4	16	
AN8018-1			186-22	2	
AN8019-1			186-35	2	
AN8020-1			186-23	2	
AN8022-1			1-1	1	
AN8031-8-19 1/2			248-42	REF	
			248-48	REF	
AN804-4		4730-278-9383	96-54	5	
AN804D4		4730-278-0557	96-8	18	
AN804D5			189-33	1	
AN804D6		4730-278-0606	130-41	3	
AN804D8		6500-919940	121-26	2	
AN814-3D		4730-287-0096	93-24	1	
AN814-4D		4730-287-0094	37-24	3	
AN815-10		6500-967352	251-16	1	
AN815-12D		4730-186-9831	26-1	14	
AN815-16D		4730-186-9832	32-40	3	
AN815-4		4730-278-3242	197	1	
AN815-4D		4730-186-9811	34-4	51	
AN815-5D		4730-186-9819	189-28	1	
AN815-6		4730-187-0486	250-37	1	
AN815-6D		4730-186-9826	26-6	47	
AN815-8D		4730-287-0353	27-16	13	
AN816-10			251-15	1	
AN816-4D		4730-240-5905	99-23	8	
AN816-5-4D		4730-196-9585	189A-6	1	
AN816-5D		4730-187-0088	189-19	2	
AN816-6		4730-194-1121	197-13	2	
AN816-6-2		6500-451886-4	28-38	1	
AN818-4D		4730-287-0289	96-27	5	
AN819-4Z		4730-289-4776	96-28	5	
AN821-10D		4730-194-1044	251-40	1	
AN821-5D		6500-361115	189-24	1	
AN821-6D		4730-194-1034	32-25	2	
AN822-12			90-4	4	
AN822-12D			93-6	1	
AN822-4		4730-231-4009	90-39	6	
AN822-4-4		6500-361512	247-16	1	
AN822-4D		4730-186-9961	98-33	1	
AN822-5-4D		4730-278-4684	189A	2	
AN822-5D		4730-278-3678	189-9	4	
AN822-6			224-20	1	
AN822-6-8D			251-22	1	
AN823-12			90-32	2	
AN823-12D			93-7	1	
AN823-4D		4730-186-9951	96-10	6	
AN823-5D		4730-186-9980	189-16	1	
AN824-10D		4730-279-0875	251-38	1	
AN824-4D		4730-279-0872	97-51	5	
AN824-5D		4730-279-0871	189-22	2	
AN824-6D		4730-278-9373	137-25	1	
AN824-8D		4730-279-0873	121-6	2	
AN825-6			90-15	1	
AN826-4			90-33	2	
AN826-4D		4730-278-5126	97-46	3	
AN826-6			90	2	
AN827-4D		4730-277-7957	96-30	5	
AN832-10		4730-277-6440	251-35	1	
AN832-12		4730-277-6435	9-27	2	
AN832-12D		4730-277-6418	91-12	3	
AN832-4		4730-277-6458	37-16	6	
AN832-4D		4730-277-6445	34-9	24	
AN832-5D		4730-277-6446	189-37	1	
AN832-6		4730-278-8344	90-20	1	
AN832-6D		4730-277-6836	37-33	14	
AN832-8D		4730-277-6439	123-15	5	
AN833-10		6500-361672	251-33	1	
AN833-12D		4730-197-2919	143-7	2	
AN833-3D		4730-279-0116	125-40	2	
AN833-4		4730-231-3026	37-4	8	
AN833-4D		4730-194-1089	39-17	54	
AN833-6		4730-231-3028	90-42	4	
AN833-6D		4730-197-2916	37-27	40	
AN833-8D		4730-197-2917	27-20	12	
AN834-16D		6500	247-10	1	
AN834-4D		4730-277-5107	96-19	7	
AN834-6D		4730-277-5162	38-20	2	
AN837-12		4730-231-3020	248-34	1	
AN837-16D		4730-279-0122	248-16	2	
AN837-4		4730-230-8710	37-8	6	
AN837-4D		4730-186-9996	96-15	16	
AN837-6D		4730-186-9997	39-37	12	
AN837-8D		4730-186-9999	120-10	9	
AN838-10D			251-46	2	
AN838-16D			248-30	1	
AN838-4D		4730-194-1058	225-16	1	
AN839-10			251-43	2	
AN839-16D		6500-368763-57	248-31	1	
AN840-4			26-16	REF	
AN893-10			266E-17	1	
AN893-12D		4730-231-1330	120-7	2	
AN893-151D			249-15	1	
AN893-2D		4730-231-1325	119-28	2	
AN893-3D		4730-231-1326	120-37	2	
AN894D16-8			247-9	1	
AN894D8-4		6500	143-6	1	
AN9-23A			47-49	1	
AN900-12			28-40	12	
AN900-16		6700-265100	94-7	3	
AN900-17			248-22	1	
AN901-12C		5330-268-4131	248-23	2	
AN902-12			91-11	1	
AN902-16		6600	247-6	3	
AN902-3			93-25	1	
AN902-4		5330-285-9838	93-19	11	
AN902-8		6600	247-39	1	
AN911-1D		4730-186-7783	101-28	2	
AN912-1			247-18	1	
AN912-3			251-7	1	
AN914-1		6500-368800	191	1	
AN917-1D		4730-287-3699	101-29	2	
AN919-10D		4730-188-8027	91-35	3	
AN919-12		4730-235-1503	119-40	3	
AN919-12D		4730-187-3585	120-25	4	
AN919-3D		4730-187-3577	266E-13	1	
AN919-5D			266E-3	1	
AN919-6		4730-187-3600	90-37	1	
AN919-6D		4730-187-3580	37-23	23	
AN924-10		5310-282-7822	251-31	3	
AN924-10D		5310-282-7834	143-22	3	
AN924-12		5310-282-7831	90-10	4	
AN924-12D		5310-804-9373	91-10	3	
AN924-16D		5310-208-4112	248	5	
AN924-4		5310-282-7819	37-6	18	
AN924-4D		5310-282-7823	34-7	79	
AN924-5D		5310-282-7832	189-31	2	
AN924-6		5310-282-7817	90-19	2	
AN924-6D		5310-638-2605	37-26	37	
AN924-8D		5310-282-7835	27-19	14	
AN925-4D		6500-349770	93-20	2	
AN925-6D		4730-256-2291	119-29	1	
AN925-8D		6500-349772	120-38	2	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
AN926-12D		6500-920195	250-23	1	
AN926-4D		4730-279-0050	37-22	4	
AN926-6D		6500-920192	119-8	7	
AN926-8D		6500-920193	91-37	5	
AN927-12D			250-20	1	
AN927-4D		4730-277-2454	37-17	7	
AN927-6D		6500-368899	38-9	8	
AN927-8D		6500-368900	250-13	1	
AN928-6D		6500-368882	139-21	1	
AN929-10		4730	251-36	2	
AN929-4		4730-278-5006	96-18	6	
AN929-6		4730-277-6539	142-27	1	
AN929-8		6510	247-8	1	
AN931-10-14		6600-308104-24	266D-25	1	
AN931-11-16		6600-308104-28	35-29	2	
AN931-12-17		5325-286-5944	172-18	1	
AN931-14S20			189-2	2	
AN931-14S22			189-46	2	
AN931-3-5		5325-270-8889	162-17	3	
AN931-4-12		5325-174-5315	97-53	1	
AN931-4-7		5325-263-6632	90-24	3	
AN931-6-10		5325-291-9366	26-22	4	
AN931-6S10		5325-202-1821	32-27	2	
AN931-6S16			32-28	1	
AN931-8-13		6600-308104-22	26-31	2	
AN931-8-20		6600-308104-32	158-15	2	
AN931-8S13			14-31	2	
AN931A5S13		6600	189-17	1	
AN931A6-16			130-14	4	
AN931A6S16			130-14	1	
AN932-2		4730-278-3462	96	10	
AN932C2			96-9	3	
AN935-10		5310-363-3005	82-27	8	
AN935-10L		5310-184-8968	169-28	1	
AN935-416		5310-167-0668	27-5	54	
AN935-416L		5310-167-0667	257-9	2	
AN935-6		4730-209-3991	112-11	3	
AN935-6L		6700-989480	263-28	4	
AN935-616L		4730-167-0672	169-23	3	
AN935-8		4730-167-0661	144-44	66	
AN935-916L			225-10	1	
AN935B416			144-42	4	
AN935B6		5310-184-8977	99-19	4	
AN935B616		6700-990552	144-47	2	
AN936A10		5310-167-0878	169-30	3	
AN936A416		5310-167-0719	101-49	8	
AN936A416B		5310-167-0856	80-25	69	
AN936A6		5310-167-0876	40-4	574	
AN936A6B		5310-167-0853	147	371	
AN936A616		5310-167-0722	169-25	3	
AN936A8		5310-167-0877	40-19	2	
AN936B10		5310-167-0869	188-71	4	
AN936B416		6700-991560	195-5	1	
AN936B6		5310-167-0867	196-15	6	
AN936B8		5310-596-7693	196-19	7	
AN944-101		4730-255-2689	111-28	4	
AN944-201		4730-277-8775	117-31	1	
AN945-4D			42	4	
AN960-10		5310-281-5031	20-12	313	
AN960-10L		5310-167-0834	25-15	162	
AN960-1016		5310-167-0825	4-18	9	
AN960-1216		5310-167-0826	4-22	2	
AN960-1416		6500-985000	4-26	8	
AN960-4		6500	44-9	11	
AN960-4L		5310-167-0831	215-7	12	
AN960-416		6500-985000	42-8	352	
AN960-416L		6500-985400	28-5	AR	
AN960-516		5310-167-0820	42-36	70	
AN960-516L		6500-985450	73-49	35	
AN960-6		6500-983800	40-5	511	
AN960-6L		6500-985235	112-12	10	
AN960-616		5310-167-0821	42	43	
AN960-616L		6500-985475	56-2	19	
AN960-716			47-44	24	
AN960-716L		6500-985476	73-36	10	
AN960-8		6500-983900	64-17	6	
AN960-8L		6500-985250	200-54	3	
AN960-816		5310-167-0823	3-6	AR	
AN960-916		6500-984700	47-48	38	
AN960-916L			73-34	18	
AN960A10L		6500-982340	89-44	8	
AN960B10			116-10	2	
AN960B6		6500	99-18	6	
AN960B616			144-48	2	
AN960B8		6500-982700	144-23	16	
AN960C10		5310-167-0801	70	60	
AN960C10L		6500-983579	157	84	
AN960C1716		6500-983578-2	248	1	
AN960C2116			248	1	
AN960C416		6500-983565	50-13	33	
AN960C416L		6500-983580	32-44	40	
AN960C516		6500-983568	66-8	7	
AN960C516L		5310-167-0814	198-8	10	
AN960C6		6500-983548	158-13	11	
AN960C616		6500-983570	248-3	2	
AN960C716		6500-983572	37-7	6	
AN960C8		6500-983550	80-14	22	
AN960C816L		6500	240-37	4	
AN960D10		6500-981700	5-6	756	
AN960D10L		6500-982316-6	19-8	93	
AN960D1016L		6500-982319-6	4-20	AR	
AN960D1216		6500-982305	120-18	13	
AN960D1216L		6500-982319-634	4-23	AR	
AN960D1416L		6500-982319-635	4-28	3	
AN960D1716		6500-981292-5	92-19	1	
AN960D4		6500-981400	75-18	23	
AN960D416		6500-981800	3-22	890	
AN960D416L		6500-982317	4-2	293	
AN960D516			5-9	86	
AN960D516L		5310-167-0755	117-5	AR	
AN960D6		6500-981500	82-34	326	
AN960D6L		6500-982316-4	107-2	26	
AN960D616		5310-167-1726	3-29	5	
AN960D616L		6500-982318-6	15-9	9	
AN960D716		5310-167-0741	34-8	97	
AN960D8		6500-981600	12-13	66	
AN960D8L		6500-982316-52	8-32	38	
AN960D816		5310-167-0742	111-31	6	
AN960D916		6500-982250	37-32	40	
AN960D916L		6500-982319-4	73-41	5	
AN960PD8L			44-20	4	
AN960PD8L			44	4	
AN961-10		5310-595-6524	169-29	2	
AN961-6		5310-194-0634	147	325	
AN961-616		5310-187-2413	169-24	6	
AN961-8		5310-264-1389	266F	1	
AN970-3		5310-290-6320	188-65	8	
AN970-4		6700-980500	75-5	2	
AN975-3		5310-187-2337	203-37	23	
AN975-4		5310-187-2338	141-21	4	
AR09894			136-24	REF	
AS215/ARN			176-22	2	
			177-9		
AS313A/ARN6			177A-9		
			177-2	1	
			182-25	REF	
			177A-5	REF	
AS313B/ARN6			182A-26	REF	
			177-2	REF	
AT5			177A-5	1	
AW1-7/8-17CN13		2343	198-14	4	
AW2 3/4-25L			104	REF	
AW2-14B			100-22	1	
AW2-15			100-11	1	
AW6 1/2-40			100-6	1	
A1901RCUR		3360-073012640	66-40	3	
A2062			266B-6	1	
			158-9	REF	
A2138G24			172-6	REF	
A23527			41	REF	
			178	4	
			179		
A24975			180		
A2953			252-6	1	
			146-32	4	
			147-14		
			148-44		
			149-20		
A30114-2			190-46	1	
A3122-10-59		5340-488-6665	186-31	12	
			186-36		
			186A-34		
			186A-39		
A3122-16-1			208-10	1	
A3122-18-59			186	4	
			186A		

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A3122-8-59		4730-595-3680	186-30	12
			186A-33	
A3125-2		6500-295355	160-21	1
A3125-2H			151-17	2
			151-21	
A3125-3			160-21	1
A3235-020SS			200-13	16
A3236			41	11
A3475-020SS			200-21	6
A3719XC			232-15	1
A375-1			40-49	REF
A375-2			40	REF
A422E1			220-39	1
A4245			167-2	3
			168-28	
			168-63	
A4251			263-38	1
A4251-1			266B-17	1
A4255A1			146-41	4
			147-23	REF
			148-51	
			149-28	
A4255A4		6220-283-9864A	147-23	8
			148-25	
			149-15	
			152-11	
			153-49	
			154-49	
A4255A5		6220-025-7699A	153-51	4
			154-50	
			155-10	
			156-10	
A4255A7		6220-025-7700A	146-28	12
			153-57	
			154-36	
			155-11	
			263-43	
			266B-18	
A4265-1-307			157	1
A4265-2-307			157	REF
A4297D			153-73	REF
			154-31	REF
			156-28	REF
A4363		4221	163-8	10
A4364		4221	163-9	10
A4513-7			157	REF
A4627			163-3	2
A4731			266B-16	REF
A5-30			160-24	10
			161-11	
			161-23	
A5-35			161-12	2
A55A00			190-57	1
A5934-51			150-13	1
A602R			153-60	REF
			154-59	REF
			155-13	REF
A6086D1024-1			50-16	2
A6912-832-1		6500-609209-5	72-15	1
A6935-28			265-8	1
A6939-632-062			189-13	8
A6939-632-125		6500-53393	98-35	12
			258-9	
A6974-14-41			162-12	10
			170-7	
			171-5	
A6974-16-41			171-10	1
A6974-18-41			40-28	4
			41-26	
A6974-20-41		6500-632426-86	170-6	4
			171-8	
A8943-632-375		6500-533997	266E-24	4
A8979-1A			183B-2	4
			183B-4	
BCP4W10			67-34	1
BCP5W11			77-9	REF
BC1333/ /			176-9	1
BI48120			115	REF
BK22K			176-25	1
BK22L			176-25	REF
BZ7RQ1T		3360-073412200	95-45	3
			95-50	
			152	
B1012			214-35	1
B108XPOH			36	2

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			209-43	
			209-65	
			210-17	
B1412			217-24	2
B3457			46-23	2
B3525			157-27	REF
B3525-1			157-28	REF
B4235A1			153-53	2
			154-52	
B4235A5			153-54	6
			154-53	
			155-7	
			156-7	
B4235A7			153-55	7
			154-54	
			155-8	
			156-8	
B46800-19			247	REF
B46800-19P			247	REF
B539			203-41	1
B66		3110-120-3081	216-7	6
CCA1450		4859	26-17	REF
			94-11	1
CCA1500			28-28	3
			93-8	
CCA4300		4859	29-17	REF
			90-14	REF
			91-18	REF
CCA4850		4859	26-17	2
			90	REF
			92	REF
			94-11	REF
CCA4900		4859	89	REF
			93-8	REF
CG130/ARN6		5995-188-1175	177-13	1
			177A-14	
CG405/ARN6		1600-154433720	177-14	1
			177A-15	
CG42/ARN			176	2
			176-16	
CM7059			163-28	1
CM7060			163-2	1
CM7160			163	1
CM9581			163-3	REF
CP07FB4			172	2
CP29A1DF103M			180-49	2
CP53B2EB405K		3330-317643040	162-20	REF
CR1A/AR			174	24
			175	
CSB600-64			22-11	REF
			23-11	REF
CYLZ2964			168-30	2
			172-8	
C1530			186-6	2
			186A-6	
C1904/ARC27			181B-2	1
			181B-3	1
C3519		3380-512325-1835	180-39	3
			180A-39	
			183A-14	
			183B-15	
C383/AIC			178-8	4
			184-2	
C403A/A		1600-5826-565-8649	177-19	REF
			177A-19	REF
C404/A			174-22	4
			184-4	
C404A/A			175-20	2
C411/A			176-33	REF
			184-3	REF
C626/ARC27		1600-5821-505-1200	181-2	1
			181A-3	REF
C628/ARC27		1600-5821-373-4789	181-28	2
			181A-35	
C695/AIC			179-5	4
			180-4	
C760/A		5826-256-9166	182-4	2
			182A-4	
C760A/A			182-4	REF
			182A-4	REF
C760B/A		5826-505-0969	182-4	REF
			182A-4	REF

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C790/ARA26		181-28A	2	
		181A-43		
C824/AIC10		180A-3	REF	
DS3		199-54	REF	
DY21/ARC3		174-5	2	
		175-5		
DY22/ARC3	6125-265-3765	174-6	2	
		175-6		
DY66/ARN14	6125-265-3239	182-2	1	
		182A-2		
DY66A/ARN14		182-2	REF	
		182A-2	REF	
DY66B/ARN14	1600-6125-635-8802	182-2	REF	
		182A-2	REF	
DY77/AIC10		180A-1	1	
D10007-8		141-51	REF	
D10150-2		39-38	REF	
D10408		41-6	2	
EA1030-792		2	1	
		35-9		
EA1030-793		2	1	
		35		
EA1030-794		2	1	
		35-25		
EA1030-795		2	1	
		35		
EA1030-796		2	1	
		35-26		
EA1030-797		2	1	
		35		
EA318-1		98-6	2	
		155-56	REF	
		156-41	REF	
EA318-2		98	1	
EA711ANH1		100-2	1	
		100-3		
EA711M1		100	2	
EA850-636		2	2	
		34		
EA850-637		2	2	
		34		
EA850-643		2	2	
		34-18		
EA850-644		2	2	
		34-19		
EA904A-C1		35-36	REF	
EA904E1A1		35-36	1	
EB064	6500-523772	49-12	2	
EB070		49-8	2	
EB080	5310-297-3721	3-5	2	
E1002-27-6		176-49	REF	
E1376		253	1	
E1377		253-12	1	
E1377-50		89-60	1	
E1378		253-13	6	
E1385		264-49	1	
E1386		264-50	1	
E1773		253-14	3	
E48462		247-40	REF	
E51710		247	REF	
E51776		247-40	REF	
E51777		247	REF	
E51798		247	REF	
E51799		247-40	REF	
E51799-1		247-40	1	
FCB20509		32-8	4	
FCD20683		29	REF	
FCD20684		29	REF	
FCD20685		32	REF	
FCD20686		32	REF	
FL34-16		192-27	1	
FR4		118	1	
FS200		93-12	REF	
FS200		93-5	1	
FT161		176-40	1	
FT213		176-15	1	
FT3		219-13	1	
FT6		199-58	2	
F1L1		147-19	REF	
F1L2		146-37	REF	
		263-34	REF	
F1L3		146-38	REF	
		147-20	REF	

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F1L3		263-33	REF	
F2H1		263-35	REF	
F2T6/3605-		147-12	22	
		148-42		
		149-19		
		153-56		
		154-55		
		155-9		
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F20		144-54	REF	
		151-4	REF	
F20-4		144-54	REF	
		151-4	REF	
F21/ARA9		178-9	6	
		179-38		
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		146-36	REF	
F34-14	3400-308003	190-18	3	
		191-42		
		192-36		
		196		
F34-16		192-28	1	
F90/AIC		180A-2	1	
GA15A		189	REF	
GA5-312	6500-442821	160-25	12	
		161-10		
		161-24		
GA6 1/2-375	6500-442824	66	3	
GS47		115-12	REF	
		115-32	REF	
		115-48	REF	
G102		115	2	
G103		115	2	
G139		115-10	6	
		115-31		
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HC1560	3300-317641001	98-19	4	
HFXL10G		117-53	1	
HFXL7G		117-40	2	
HFX10G		117-54	1	
HFX7G		117-41	2	
HF3	3120-661-7475	202-9	5	
HML5		199-14	REF	
HM5	3400-308265	199-13	REF	
HP600-4		150-6	1	
HSBG10A	3400-308209	15-29	4	
		16-29		
HSBG18A		201-9	3	
HSBG4	3120-580-9479	57-26	2	
HSBG7	3120-661-7220	117-58	REF	
H20H162-40M5		220-40	2	
H46/UR		253-15	REF	
H46A/UR		253-15	REF	
H46R4353		259-7	REF	
		266C-4	REF	
H4600-064-064		83-16	REF	
H4600-064-156		82-21	REF	
H50 981000		259-3	2	
H5000-2-032-064		58	1	
H5000-2-040-072		62-33	1	
H5000-2-040-091		64-43	2	
H5000-2-040-102		18	4	
H5000-2-051-091		61-19	1	
H5000-2-051-115		237-28	4	
		238-28		
H5000-2-051-125		10-56	4	
H5000-2-064-064		83-16	1	
H5000-2-064-102		61-40	2	
H5000-2-064-156		82-21	2	
H676-685	4846	143-34	1	
H78/AIC		253	REF	
ID249/ARN		100-23	REF	
ID249A/ARN		100-23	REF	
ID249B/ARN	5826-505-2219	100-23	REF	
ID250/ARN	5826-505-2222	100	REF	
		177	REF	
		177A-31	REF	
ID250/ARN14		100-14	1	
ID250A/ARN		100	REF	
ID251/ARN		98-37	REF	
ID351/ARN		100-23	REF	
ID351A/ARN		100-23	REF	

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	ACC CODE / (FEA) MFR PART NO			
ID90/ARN		177-31	REF	
ID90A/ARN6	5826-090-3646	100	REF	
ID91A/ARN6		100	REF	
I81L		176-56	REF	
JJ033	8850-749390	179	2	
		180		
JK33A		178	2	
J68/ARC3	5821-538-7929	174-4	2	
		175-4		
KM610-32	5340-329-2317	38-18	2	
		66-28		
KM610-51	5340-530-6466	59-20	2	
KM680	5340-489-5414	17-6	6	
		18-20		
KY65/ARA26		181-3A	2	
		181A-5		
K1125D		247-15	REF	
K114	5340-329-1337	53	4	
		32		
K1610B		247-26	REF	
K3L3		206-45	1	
K9000S3A		247	REF	
LA1533C134		177-26	REF	
LA1533C36		177-24	REF	
LA1533C39		177-25	REF	
LA1564-36		177-24	REF	
LA1564-39		177-25	REF	
LC2570		157-17	REF	
LMR53		212-42	1	
LP31A		176	REF	
LP31AM		176	1	
LSS4	3400-308126	57	REF	
LSS7	3400-308031	117-58	1	
LS3	3400-308022	202-2	8	
MB2731	4264	232-56	1	
MB2731A		191-54	1	
MC124		176-34	3	
		176-35		
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MC136		177-5	REF	
		177A-3	REF	
MC136A		177-5	REF	
		177A-3	REF	
MC203		176-38	1	
MC203A		177-27	REF	
MC2711B	4264	152-7	REF	
MNS4-02		127-42	1	
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MR138		177-27	1	
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MR27-1		222	6	
MR27-10		222-4A	24	
MR27-11		222	12	
MR27-12		222-12	12	
MR27-13		222	12	
MR27-14		222-10	12	
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MR27-18W		222-1	REF	
MR27-19		222-2	6	
MR27-2		222	6	
MR27-20		222-3	12	
MR27-22		222-13	12	
MR27-24		222-11	12	
MR27-27		222-16	6	
MR27-28		222-14	6	
MR27-3		222-5	18	
MR27-30		222-15	12	
MR27-34		222-17	6	
MR27-35		222-4	12	
MR27-4		222	18	
MR27-4A		222-6	18	
MR27-40		222-1	6	
MR27-5		222-9	12	
MR27-6		222-7	REF	
MR27-6A		222-7	18	
MR27-7		222-8	24	
MR27-8		22	12	
MR27-9		222	12	
MR27B-SA		222	6	
MR27SA		222	REF	
MR27SA1		222	6	
MR27SA2		222	6	
MSB201		169-17	REF	
MS20365-428		266G-2	1	
MS20365-440		266G	4	
MS20365-832		266G-18	1	

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MS25010-4	6220-283-9841B	163	12	
MS24021-1		181B-4	1	
MS24021-4		181B-8	1	
MS25123-1-20		181B-35	1	
		181B-36	1	
		181B-37	1	
		181B-38	1	
		181B-39	1	
MS25226-2-2		181B-43	1	
MS25003-1		100-8	1	
MS25003-2		100-12	1	
MS25003-3		100	REF	
MS25003-4		100-16	1	
MS25003-5		100-18	1	
MS25003-6W1		100-19	1	
MS20612-4	5330-283-1128	181-11	4	
MS3057-4		265G-23	2	
MS3113E14-19P		265G-19	1	
MS3112E20-27S		181B-15	1	
		181B-17	1	
		181B-18	1	
		181B-21	1	
		181B-23	1	
		181B-24	1	
MS3106B24-5S		181B-40	1	
MS3106B24-6S		181B-41	1	
MS3450-14		265G	1	
MS3450-2		265G-20	1	
MS840119		135-30	1	
MTR4-13		123-1	2	
		131-45		
MT1062/U		180A-48	1	
MT1161/ARN	1600-012830370	182-15	REF	
MT1162/ARN	1600	182-9	REF	
MT1201-040-200		266B-7	REF	
MT236/ARC3		174-20	2	
		175-17		
MT236A/ARC3		176-17	REF	
MT236B/ARC3		176-17	REF	
MT237A/ARC3	5821-538-8863	174-13	2	
MT237B/ARC3		175-8		
MT237C/ARC3		176-8	REF	
MT238A/ARC3	5820-390-3704	174-10	2	
		175-11		
MT238B/ARC3		176-11	REF	
MT273B/ARN6		177-27	2	
		177A-7		
MT273D/ARN6		177-7	REF	
		177A-7	REF	
MT273E/ARN6	1600-012830260	177-7	REF	
		177A-7	REF	
MT28/ARN5	5826-338-1629	178-33	2	
MT556/AIC		178-34	6	
		178-36		
		179-24		
		180-22		
MT556A/AIC		179-24	REF	
		180-22	REF	
MT589/ARN12	5826-392-5894	177-18	1	
		177A-18		
MT627/ARN14		182-15	1	
		182A-17		
MT627A/ARN14		182-15	REF	
MT628/ARN14		182-9	1	
		182A-9		
MT677/AIC		179-37	1	
		180-53		
MT691/ARN18	5826-512-9066	182-8	1	
		182A-8		
MT796/U		181-3E	2	
		181A-33		
MT821/ARC27		181-12	1	
		181A-14		
MT822/ARC27		181-5	1	
		181A-7		
MX3496	6700-923175	245-2	REF	
M1670M104		153-23	2	
		154-23		
M2139		153-12	2	
		154-12		
M401M4		95	1	
M4084M1		252-26	2	
M409M4		95-22	1	
M896		152-27	6	
		153-20		
		154-20		
		252-25		
NAS120B125	4923	101-45	1	
NAS143-4	6500-983535	79-44	1	
NAS143-4C	6500-980290	79-42	1	
NAS143-6	6500-983537	49-11	2	
NAS143-6C	6500-980300	49-10	4	
NAS143-7	6500-983538	49-7	8	
NAS143-7C	6500-980302	3-3	AR	
NAS143-8C	6500-980304	50-10	1	
NAS143-9	6500-983538-3	5-12	AR	
NAS143-9C	6500-980308	5-13	AR	
NAS144A36		79-41	1	
NAS146-27	5306-281-9718	49-9	2	
NAS146DH50		50-18	2	

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NAS147-45			52-26	2	
NAS147-48			52-27	2	
NAS147-50			52-28	2	
NAS148-70			3-7	2	
NAS148DH71			50-9	1	
NAS149-38			5-14	6	
NAS170-2			224-11	2	
NAS2-101		6700-319280	12-17	44	
NAS2-201		6510	15-30	111	
NAS220-10		5305-282-0842	80	8	
NAS220-19		6700-613925-232	258-1	4	
NAS220-34			36-18	2	
NAS220-7		5305-282-0839	115-52	4	
NAS220-8		5305-616-2805	59-52	106	
NAS220-9		5305-282-0838	59-3	27	
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NAS221-10		5305-282-4207	10-51	310	
NAS221-11		5305-165-5359	17-23	210	
NAS221-12		5305-149-9896	46-9	11	
NAS221-13		5305-282-4204	46-11	6	
NAS221-16		5305-282-4203	46-13	43	
NAS221-17		5305-282-4200	70-2	59	
NAS221-21		6700-613925-333	60-10	57	
NAS221-22		5305-281-8561	45-21	4	
NAS221-29		5305-282-6704	45-5	6	
NAS221-30		5305-282-6705	107-40	1	
NAS221-32		5305-282-6686	31-24	16	
NAS221-34		6700	212-24	3	
NAS221-5		6700-613925-13	187-14	4	
NAS221-8		5305-282-4209	17-7	221	
NAS221-9		5305-282-4208	18-5	122	
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NAS221BZ8			11-1	16	
NAS221BZ9			10-36	2	
NAS222-10			66-13	8	
NAS222-13		5305-282-9502	9-50	3	
NAS222-14		5305-282-9503	17-1	20	
NAS222-15		5305-282-9504	15-26	8	
NAS222-16		5305-282-9505	228-17	4	
NAS222-22		5305-282-9511	224-7	8	
NAS222-27		5305-282-9924	7-3	4	
NAS222-30		6700	13-16	8	
NAS222-8			223-30	1	
NAS224-29			13-17	4	
NAS24-4			225-29	REF	
NAS25-4L		1AMJ-1560-525-4455	247	1	
NAS25-4R		1AMJ-1560-525-4456	225-28	2	
NAS26-4		1AMJ-1560-525-4464	197-20	25	
NAS27-4-22		6500-965150	247-5	1	
NAS27-5-30			224-13	2	
NAS335-17			73-50	2	
NAS377-2			73-51	2	
NAS40-4A-TT28.11			261-35	REF	
			261-36	REF	
NAS40-5A-LL30.210			45-27	REF	
NAS42-8-54			113-14	1	
NAS42C6-8			86-16	2	
NAS42DD4-50			84-45	2	
NAS42DD5-16		5340	105-21	1	
NAS42DD5-38			105-22	1	
NAS42DD6-106			78-27	1	
NAS427K10		5315-141-6609	36	6	
NAS427K11		5315-141-6610	106-44	2	
NAS427K12		5315-141-6611	36	4	
NAS427K13		5315-141-6612	190-9	1	
NAS427K36		6500-603919-37	264-14	2	
NAS427K38		5315-298-1466	106-43	1	
NAS427K42			118-12	1	
NAS427K44		6500	106	1	
NAS427K7		6530-503500-213	106-42	2	
NAS427K8			36-30	31	
NAS427T21		6500-603934	108-2	8	
NAS427T32			118-11	1	
NAS427T34			118-10	1	
NAS428-5-10		5306-206-3913	24-6	2	
NAS43-3-10A			206-34	2	
NAS43-3-49			266F	2	
NAS43-3-88		5340	12-14	3	
NAS43-4-110			110-18	2	
NAS43-4-28			215-8	12	
NAS43C3-48			56-28	1	
NAS43C3-62			227-11	2	
NAS43DD1-16		6500-914320-5	167	4	

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NAS43DD3-12		5340-203-8967	146-45	11	
NAS43DD3-16		5340-302-8104	80-24	13	
NAS43DD3-42			121	4	
NAS43DD4-24		5340	101	12	
NAS43DD4-65		5340	78-64	1	
NAS44-10-2		8800-059080	266B-37	2	
NAS44-10-3		8800-012114-55	266B-38	1	
NAS44-6-2		8800-012095	168-7	5	
NAS44-6-3		8800-059161	170-13	1	
NAS44-6-4			170	1	
NAS45-6-1		8880-086602260	40	10	
NAS45-6-10		8880-086601240	178-21	22	
NAS45-6-11		8880-086601250	183B-11	1	
NAS45-6-12		8880-086601260	146-7	5	
NAS45-6-13		8880-086601270	148-6	1	
NAS45-6-14		8880	178-28	8	
NAS45-6-15		8800-582311-68	183-28	14	
NAS45-6-18			183B-12	3	
NAS45-6-2		8880-086602240	40-3	6	
NAS45-6-20		8800-582311-7856	183B-8	2	
NAS45-6-3		8880-086602230	162-4	2	
NAS45-6-4		8800-582311-73	152-19	6	
NAS45-6-5		8880-086601210	169-9	3	
NAS45-6-6		8800-582311-75	40-32	11	
NAS45-6-7		8880-086600890	40	5	
NAS45-6-8		8880-086601220	150-36	13	
NAS45-6-9		8880-086601230	152-41	58	
NAS45-616-4			147-1	1	
NAS460-416			107-29	2	
NAS460-516		6700	107-24	1	
NAS50-225		5340-514-1461	143-45	1	
NAS50-56		6700-480954	143-31	1	
NAS51-37		6700-480903	64-24	10	
NAS51-50		5340-598-0923	64-31	1	
NAS51-62		5340-598-9834	264-24	2	
NAS52-439			254	1	
NAS52-11424			266A	1	
NEC4 X 6-12T32			94-15	1	
N91			266D-9	REF	
PB100A			155-43	REF	
			158-10	REF	
			168-39	REF	
PC3 1/2		5325-291-9360	175-24	68	
			175-31		
			177-23		
			179-13		
			180-10		
			181-35		
			184-15		
			177A-23		
			181A-42		
PFSC3 1/2		6500-915393	181A	REF	
PF3 1/2-38		5325-539-7603	175-22	68	
			175-29		
			177-21		
			179-11		
			180-8		
			181-33		
			184-13		
			177A-21		
			181A-40		
PG20BAS12			190-54	1	
PK54Z2-5		5305-285-7471	232-29	4	
			235-10		
PL112			176-19	1	
PL118			176-29	2	
PL122			176-13	1	
PL148A		8850-461988	174-21	2	
			175-32		
PL151A		8850-303510	174-15	2	
			175-12		
PL152A			178-24	1	
PL153A		8850-462061	174-16	4	
			175-10		
PL258			176-45	1	
PL259A		5935-500-5183	173-15	15	
			174		
			175		
			175-14		
			176-46		
			177-10		
			177A-11		
PS3 1/2		5325-329-8021	175-23	68	
			175-30		

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART.	SOURCE CODE
PS3 1/2		5325-329-8021	177-22		
			179-12		
			180-9		
			181-34		
			184-14		
			177A-22		
			181A-41		
PS5223B12-6			29-11	REF	
PS5223B7-0			29-12	REF	
P101-5/16			176-48	1	
P1088			186-12	1	
			186A-16		
P116-447-10			266A	2	
P302CCT-L		8850-222100	265	1	
P303CCT-L		8850-249250	265	1	
P304CCT-L		8850-271819	265	1	
P306CCT-L		8850-300570	265	1	
P308CCT-L		8850-318860	265	1	
P312CCT-L		8850-345435	265	1	
P315CCT		8850-354130	265	1	
P318CCT		8850-364465	265-3	1	
QA100			233-31	2	
			234-32		
QA101-2			233-7	1	
QA101-3			234-8	1	
QA102-2			233-17	1	
QA102-3			234-18	1	
QA103-2			233-27	1	
QA103-3			234-28	1	
QA104			233-13	2	
			234-14		
QA105			233-23	2	
			234-24		
QF100			233-15	2	
			234-16		
QF101			233-35	2	
			234-36		
QF102			233-25	2	
			234-26		
QF103			233-1	1	
QG100-2			233-29	2	
			234-30		
QG100-3			233-19	2	
			234-20		
QG100-4			233-9	2	
			234-10		
QG102			233-33	2	
			234-34		
QJ100			233-2	2	
			234-3		
QJ101		4931	233-4	2	
			234-5		
QJ102			234-53	2	
QQ104			233-5	10	
			234-6		
QQ105			233-42	2	
			234-43		
QQ106-2			233-46	2	
			234-36		
QS100		4931	233-3	2	
			234-4		
QS200M60			258-23	3	
			266E-27		
QT100			233-39	2	
			234-40		
QV100			233-43	2	
			234-44		
QY100-2			233-45	1	
QY100-3			234-50	1	
QY101-2			233-6	1	
QY101-3			234-7	1	
QY102-2			233-16	1	
QY102-3			234-17	1	
QY103-2			233-26	1	
QY103-3			234-27	1	
QY104			233-30	2	
			234-31		
QY105			233-40	2	
			234-41		
QY106			233-38	2	
			234-39		
QY107			233-47	2	
			234-47		

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART.	SOURCE CODE
QY108			234	1	
Q237			256-25	6	
RA2258-2			229-13	2	
RA3M4-2		3110-159-1632	219-5	2	
RA75400-10			213-53	1	
RC193A			176	REF	
RC20AE122K			180A	1	
RC20AE151K			180A	2	
RC20AE561K			180A	4	
RC20AE820K			180A	1	
RC21AE102K			180	7	
			180A		
			183A		
			183B		
RC41AE470K			179	20	
			180		
			181		
			183		
			184		
			180A		
			183B		
RD205SH5.5L		5340-664-9967	27	14	
			28		
			29		
			94		
RD206SB6-5L			27	32	
RD206SH6.5L		5340-200-4029	27	16	
			228-36		
			228-57		
REB3N		3110-554-3946	206-15	2	
REB3N2		3110-554-3943	39-5	21	
			42-44		
			74-14		
			74-16		
			74-28		
			74-30		
			74-43		
			74-45		
			74-5		
			116-54		
			141-35		
			206-5		
			208-20		
			209-30		
			210-6		
RE3F4		3110-554-3379	216-1	3	
RE3ML3A		3110-555-5516	78-54	2	
			78-55		
RE3M6-2N			203-20	6	
			209-49		
RE3M6A			199-38	6	
			199-52		
			208-6		
			212-8		
RE4F5		3110-554-3380	3-24	20	
			4-7		
			106-20		
			109-17		
			110-32		
			118-31		
			118-36		
			209-31		
			210-7		
			229-3		
			230-16		
			230-34		
RE4H6			4-10	2	
RG63U			176-20	1	
RG8/U			7-17	AR	
			8-19	AR	
			8-20	REF	
			8-21	REF	
			13-28	AR	
			14-28	AR	
			174-24	AR	
			174-25	AR	
			174-3	AR	
			174-8	AR	
			175-18	AR	
			175-3	AR	
			175-36	AR	
			175-38	AR	
			176-23	AR	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
RG8/U			176-47	AR	
			177-16	AR	
			181-10	AR	
			181-38	AR	
			181-40	AR	
			182-23	AR	
RG8A/U		8860-310500-211	8-20	REF	
			14-35	REF	
			177A-10	REF	
			182A-13	REF	
RLA124SH11			261-50	2	
RL18SB6		5310-281-9223	33-9	6	
RL23SB7			209-14	1	
RL24SB7		5310-200-7749	27-38	14	
			28-31		
			29-20		
			94-22		
			228-35	1	
RL27SB8			27	52	
RL28SB8		5310-281-3178	27-39		
			36		
			141-24		
			141-27		
			228-58		
RL72SB11		6500-632424-48	20-38	8	
			21-38		
RSD305SB5•5LK			95	1	
RS102			262-44	REF	
RT178/ARC27		5820-036-7353	181-1	1	
			181A-1		
RW14G100		5905-174-2197	167-13	REF	
			168-23	REF	
			168-53	REF	
RW16C1R0			156	REF	
RW16E120			167-16	REF	
			168-19	REF	
			168-56	REF	
RW16E251			160-15	REF	
			161-14	REF	
RW16E6R3			167-11	REF	
			168-17	REF	
			168-47	REF	
RW16G310			167-18	REF	
			168-21	REF	
			168-58	REF	
RW16G500			167-8	REF	
			168-15	REF	
			168-60	REF	
			172-16	REF	
RW16J1R0			156	REF	
RW16J120			167-16	REF	
			168-19	REF	
			168-56	REF	
RW16J161			168-62	REF	
RW16J251			160-15	REF	
			161-14	REF	
RW16J6R3			167-11	REF	
			168-17	REF	
			168-47	REF	
RW30G201			170-16	REF	
RW56G101			181	4	
			183		
			181A		
			183B		
RZA10020		5200-375760	260-46	REF	
			261-51	2	
R101A/ARN6		5826-241-1011	177-3	1	
			177A-1		
R103SH5			33-10	6	
R122/ARN12		5826-248-3512	177-4	1	
			177A-2		
R122A/ARN12		5826-505-0661	177-4	REF	
R1300-1A			223-1	1	
R2055H5•5			209-13	1	
R206SB8			36-37	2	
R252/ARN14			182-1	1	
			182A-1		
R252A/ARN14			182-1	REF	
			182A-1	REF	
R252B/ARN14			182-1	REF	
			182A-1	REF	
R312SH16		5340-598-5691	20-21	8	
			20-39		

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R312SH16		5340-598-5691	21-21		
			21-39		
R322/ARN18		5826-253-9700	182-3	1	
			182A-3		
R400SRDC			90	REF	
R40937			251-52	REF	
R5A/ARN7			173-1	1	
			176-1	REF	
R539/ARN14			182-1	REF	
			182A-1	REF	
R539A/ARN14			182-1	REF	
			182A-1	REF	
R540/ARN14			182-1	REF	
			182A-1	REF	
R541/ARN14			182-1	REF	
			182A-1	REF	
R75400			213-53	REF	
R75450			255-30	REF	
R75450-1			200-61	1	
R75450-2			200	1	
R77/ARC3			174-2	REF	
R77A/ARC3		5821-194-7090	174-2	2	
			175-2		
SA1204A			153-68	2	
			154-69		
SA1286			153-69	2	
			154-70		
SA4506-10			223-22	2	
SA4528-8			223-21	2	
SC20047			263-35	REF	
SF121-11SA18			141-25	2	
			141-28		
SG154			214-26	3	
			214-58		
			219-31		
SK179BP6-10		5305-214-0771	189-14	16	
SK179BP6-14		5305-215-8439	104-12		
			104-2	16	
SK179BP6-16		5305-214-0773	98-36	6	
			99-20		
SK645-3			229-47	REF	
SK645-4			229-47	1	
SPEC JAN-C25			162-20	REF	
SPEC JAN-R26A			156	REF	
			160-15	REF	
			161-14	REF	
			167-11	REF	
			167-13	REF	
			167-16	REF	
			167-18	REF	
			167-8	REF	
			168-15	REF	
			168-17	REF	
			168-19	REF	
			168-21	REF	
			168-23	REF	
			168-47	REF	
			168-53	REF	
			168-56	REF	
			168-58	REF	
			168-60	REF	
			168-62	REF	
			170-16	REF	
			172-16	REF	
SPEC JAN-S61			169-17	REF	
SPEC MIL-A5125			100	REF	
SPEC MIL-A5885			100	REF	
SPEC MIL-B6836			100	REF	
SPEC MIL-C5041			200	REF	
			213	REF	
SPEC MIL-C6231			98-8	REF	
SPEC MIL-G6162			252-1	REF	
SPEC MIL-H5364			187	REF	
SPEC MIL-I5133			100	REF	
SPEC MIL-I5264			100	REF	
SPEC MIL-I6264			100	REF	
SPEC MIL-I6329			100	REF	
SPEC MIL-I6839			100	REF	
SPEC MIL-T5014			200	REF	
			213	REF	
SPEC MIL-T5583			155-26	REF	
			156-26	REF	
SPEC MIL-W5013			200	REF	

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SPEC MIL-W5013			213-51	REF	
SPEC 17R21			145-28	REF	
SPEC 21098			98-8	REF	
SPEC 21098B			98-8	REF	
SPEC 21106			100-16	REF	
SPEC 21106A			100-16	REF	
SPEC 21123			100-20	REF	
SPEC 21125			98-12	REF	
SPEC 21174			100	REF	
SPEC 21183			251-11	REF	
SPEC 21183A			251-11	REF	
SPEC 21184			100-19	REF	
SPEC 21184A			100-19	REF	
SPEC 21225			100-6	REF	
SPEC 21235			100-12	REF	
SPEC 21235A			100-12	REF	
SPEC 21250			100-1	REF	
SPEC 21263			100-18	REF	
SPEC 21278			100	REF	
SPEC 21296			100	REF	
SPEC 21299			100	REF	
SPEC 21306			100	REF	
SPEC 21313			100	REF	
SPEC 21314			100	REF	
SPEC 21316			100	REF	
SPEC 21327			100	REF	
SPEC 21328			100	REF	
SPEC 24901			112-18	REF	
SPEC 24975			262-6	REF	
			266B-2	REF	
SPEC 271-1719			100-14	REF	
SPEC 27401			100-11	REF	
SPEC 27433			100-8	REF	
			155-26	REF	
SPEC 27433A			100-8	REF	
			155-26	REF	
SPEC 27433B			100-8	REF	
SPEC 27471A			186-13	REF	
SPEC 27579			100-21	REF	
SPEC 27635			34-1	REF	
			35-1	REF	
SPEC 27663A			100-9	REF	
SPEC 27760			100-22	REF	
SPEC 3106			98-38	REF	
SPEC 32462			146-56	REF	
			147-46	REF	
			156-40	REF	
SPEC 32471			168-9	REF	
SPEC 32529			100-7	REF	
SPEC 32529A			100	REF	
SPEC 32547A			155-43	REF	
			158-10	REF	
			168-39	REF	
SPEC 32591			150-42	REF	
			151-15	REF	
SPEC 32603			150-45	REF	
			151-18	REF	
SPEC 32617			262-50	REF	
SPEC 32644			262-48	REF	
SPEC 32660			160-5	REF	
			161-5	REF	
SPEC 40370A			189	REF	
SPEC 40427			189-15	REF	
SPEC 40779			99-22	REF	
SPEC 93-24706D			259-5	REF	
SPEC 93-24946			259-6	REF	
			266C-5	REF	
SPEC 94-27328B			98-2	REF	
SPEC 94-27328C			98-2	REF	
SPEC 94-27368			189-18	REF	
SPEC 94-27378			34-6	REF	
SPEC 94-27408			100-17	REF	
SPEC 94-27957			100-15	REF	
SPEC 94-27957A			100	REF	
SPEC 94-27967B			100-17	REF	
SPEC 94-27970			100-10	REF	
SPEC 94-27970A			100-10	REF	
SPEC 94-32276B			144-26	REF	
			145-28	REF	
SPEC 94-32294D			54-21	REF	
			72-13	REF	
			153-73	REF	
			154-31	REF	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
SPEC 94-32294D			155-28	REF	
			156-28	REF	
SPEC 94-40321			189A-5	REF	
SP1561-832-10	6700	601550-2	8-2	88	
SP1561-832-11	6500	601550-22	3-9	16	
SP1561-832-13			3-12	28	
			61-34		
SP1561-832-9			7-2	176	
			42-1		
SSV4-01			127-14	1	
			152-47	REF	
S0239	5935	259-0148	173-9	1	
S17377			180-41	4	
			180A-41		
			183A-13		
			183B-21		
S17378	3330	317638200	180-42	4	
			180A-42		
			183A-15		
			183B-22		
S304CCT-L	8850	270175	265	1	
S306CCT-L	8850	300500	265	1	
S308CCT-L	8850	318300	265	1	
S404CCT	8850	270535	265-4	1	
S50B4159			259-3	REF	
S50C9124-2			93-12	REF	
S50D2556			179-5	REF	
			180-4	REF	
S50D2913			181-1	REF	
S52D2208			253	REF	
TF31400-22			26-18	2	
TF31400-37			94-19	1	
TF900-2			90	1	
TYPE AGC			263-45	REF	
			263-46	REF	
TYPE A1			100	REF	
			161-21	REF	
			172-10	REF	
TYPE A1A			260-7	REF	
TYPE A11			100-10	REF	
TYPE A2			98-12	REF	
			100	REF	
			155-57	REF	
			262-44	REF	
TYPE A20			186	REF	
			186A-2	REF	
TYPE A3			189-15	REF	
			262-6	REF	
			266B-2	REF	
TYPE A4			100-8	REF	
			155-26	REF	
			156-26	REF	
TYPE A7			100	REF	
			153-68	REF	
			154-69	REF	
TYPE A8			121-39	REF	
			121-40	REF	
TYPE B15			187-5	REF	
TYPE B18			187-1	REF	
TYPE B21			186-13	REF	
TYPE B22			100-11	REF	
TYPE B23			100	REF	
TYPE B4			100-9	REF	
TYPE B6			100	REF	
			112-18	REF	
TYPE C1			98-38	REF	
			100-1	REF	
TYPE C12			100-15	REF	
TYPE C13B			98-2	REF	
TYPE C16			100	REF	
TYPE C2			34-1	REF	
			35-1	REF	
			100-17	REF	
			160-5	REF	
			161-5	REF	
TYPE C2B			93-5	REF	
TYPE C3			100-17	REF	
TYPE C32			100-6	REF	
TYPE C33			100	REF	
TYPE C4			54-21	REF	
			72-13	REF	
TYPE C4A	7700	529774-239	153-73	REF	
			154-31	REF	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
TYPE C4A		7700-529774-239	155-28	REF	
			156-28	REF	
TYPE C5			54-21	REF	
			72-13	REF	
			100-16	REF	
TYPE C6			100	REF	
TYPE D1			168-9	REF	
			172-2	REF	
TYPE D18			100-22	REF	
TYPE D2			262-48	REF	
TYPE E1			262-50	REF	
TYPE E2		5945	150-42	REF	
			151-15	REF	
TYPE E33			100-18	REF	
TYPE E35			100	REF	
TYPE G1			34-6	REF	
			187	REF	
			251-11	REF	
			255-11	REF	
			189A-3	REF	
TYPE G4			100-12	REF	
TYPE G6			90-30	REF	
TYPE G8			100	REF	
TYPE G9			100	REF	
			259-5	REF	
TYPE HKP			263-47	REF	
TYPE I81L			100-14	REF	
TYPE I81N			100-14	REF	
TYPE J1			100-7	REF	
TYPE J2			146-56	REF	
			147-46	REF	
			156-40	REF	
TYPE J3			100-21	REF	
TYPE J4			259-6	REF	
TYPE J8			100	REF	
TYPE K1			189-18	REF	
TYPE K2			100-19	REF	
TYPE MS28003-1			100	REF	
TYPE MS28007-1			100	REF	
TYPE MS28024-1			100	REF	
TYPE M2		3380-701613-9935	150-45	REF	
			151-18	REF	
TYPE M3			259-7	REF	
TYPE P1			144-26	REF	
			145-28	REF	
			155-43	REF	
			158-10	REF	
			168-39	REF	
TYPE P4			252	REF	
TYPE S1			98-8	REF	
			155-58	REF	
TYPE S2			254	REF	
TYPE S3A			98-8	REF	
TYPE V2			100-20	REF	
TYPE V3			100	REF	
TYPE V8			100	REF	
T269			260-26	2	
T456			266A-27	1	
			266D-26		
T457			266A-26	1	
			266D-27		
T67/ARC3		5821-197-8301	174-1	2	
			175-1		
UG21B/U			174	3	
UG21C/U		5935-320-4854	7	23	
			8		
			13-30		
			14-30		
			174		
			175-34		
			175-37		
			181-36		
			181-39		
			181-8		
			182-11		
			182-24		
			182-27	REF	
			182A-28	REF	
UG21D/U		5935-321-4893	7	14	
			8		
			14-36		
			181-10A		
			181A-10		
UG21D/U		5935-321-4893	181A-44		
			181A-47		
			182A-11		
			182A-14		
UG22C/U		5935-500-8577	175-15	4	
			175-35		
			181-37		
			181-9		
UG22D/U		5935-201-2725	181A-11	2	
			181A-45		
UG224/U			176	3	
			177-15		
			177A-16		
UG23/U			13-29	2	
UG23C/U		8850-467476	7	5	
			8		
			14-29		
			182-12		
			182-26	REF	
			182A-27	REF	
UG23D/U		5935-332-8556	8	7	
			13-28B		
			14-34		
			181-100		
			182A-12		
UG27C/U		5935-204-8382	181-1A	2	
			181A-2		
UG58/U		5935-295-5379	7	4	
			8-12		
			8-25		
			44-17		
UM2028			224-12	REF	
U10-.625-2.000S			189A-4	REF	
U15/U		8850-465300	174-14	4	
			174-18		
			175-13		
U16/U		5935-224-3291	174-17	4	
			175-33		
			179-47		
U3100			247-15	REF	
U61/U		8850-253850	178-26	6	
			179-31		
			180-46		
U635A			93-5	REF	
U92/U		5935-644-9698	180A-44	2	
U945			93-12	REF	
VJR2485X			162-18	REF	
VJR24C5			162-18	REF	
VM400-2			99-13	REF	
			99-15	REF	
VM400-4			99-16	REF	
WEE4-371			153-28	2	
			154-28		
WF14/U		6145-635-5332	180A-45	REF	
WF5/U		8860-412000-211	178-25	6	
			179-32		
			180-47		
WM2-514M20			252-26	REF	
WM2-514M22			153-25	2	
			154-25		
WM2-514M23			153-24	2	
			154-24		
WM2-514M24			153-19	2	
			154-19		
WM2-514M25			153-9	2	
			154-9		
WM2-514M26			153-18	2	
			154-18		
WM2-599			153-8	4	
			154-8		
WM4-598			252-32	2	
WM4-600			152-28	1	
W1700-1-8D			99-22	2	
W320			244-32	REF	
W60A43			190-65	REF	
			197-8	1	
X49A6549-1-1			147-19	REF	
X49A6549-1-2			263-34	3	
X49A6549-1-3			147-20	REF	
			263-33	3	
Z22.76A			100-7	1	
0-3903-101			187-20	1	
0-3903NN101			187	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
0-511-214			189-8	REF	
0-521-306			189-8	REF	
0-521A			189	2	
06650			90-47	REF	
			95-31	2	
1			253	REF	
1-140			70-48	2	
			71-47		
1-37CP			204-16	1	
1D125-5			251-4	2	
1D125-6			251-5	2	
1D138			162-2	3	
1HS1		3360-399907017	200	1	
1N1C4		5310-094-6533	223-25	1	
1N7-10A		1AMB-5310-026-8594	133-2	1	
1P7		5310-511-7802	67-14	8	
1R1012-0.ml			217-11	2	
1R12-10-065-524			74	1	
1R12-10-065-624			118	1	
1R8-6-524		1AMB-1560-250-9462	230-21	3	
1R8-8-524		1AMB-1560-250-9468	206-17	2	
1R8P10-524		1AMB-1560-250-9467	141-37	2	
1R8P6-428		1AMB-1560-250-9463	191	3	
1R8P6-524		1AMB-5340-250-9464	230-20	3	
1R8P8-428		1AMB-5340-250-9465	216-9	3	
1R8P8-524		1AMB-5340-250-9466	230-38	1	
1V4-23-15		1AMB-1650-694-7070	134-18	1	
1V4-6-15		1AMB-1650-376-6683	131-17	1	
1V7-10-15		1AMB-1650-376-6684	119-17	1	
1V7-20-30		1AMB-1650-373-7892	136-16	1	
10-1744-75			26	3	
			91-27		
			92-31		
10-71628-12S			177-29	4	
			177A-29		
10C2B10-13			185	2	
100-001			187-26	REF	
100-007			188-48	2	
100-008			188-31	4	
100-009			188-32	4	
100-010			188	2	
100-010-1			188-26	2	
100-011			188-56	2	
100-012			188-30	4	
100-013			188-5	4	
100-014			188-44	2	
100-015-1T			188-38	2	
100-015T			188	2	
100-016-2			188-63	4	
100-016-4			188-64	4	
100-017			188-34	2	
100-018			188-33	4	
100-019			188-57	2	
100-020			188-25	4	
100-021			188-43	2	
100-021-1			188-42	2	
100-022			188-66	2	
100-023			188	2	
100-023-4			188-69	2	
100-024-2			188-29	4	
100-024-4			188-21	4	
100-025			188-37	4	
100-026			188-58	2	
100-027			188-52	2	
100-029			188-15	8	
100-030			188-70	4	
100-031			188-59	2	
10150-4			78-47	1	
10181			263-23	2	
			266B-23		
102-0			40-44	1	
102-52509			36-29	REF	
102-52510-2		1AMB-1680-122-7242	115-29	2	
10245		7700-529774-236	153-73	REF	
			154-31	REF	
			155-28	REF	
			156-28	REF	
10245-1		4230	153-73	4	
			154-31		
			155-28		
			156-28		
1028-4		6250-500-3682	54-21	4	
			72-13		

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
103801			119-42	REF	
			123-10	REF	
104936			93-12	REF	
1055-1		4269	160-5	REF	
107255			123-10	REF	
109-73076		2000-238279	253-7	1	
11-248-88			27-8	2	
11D			119-44	2	
11D2			251-10	1	
11S1		6140-245-5162	158-44	1	
1111-517229			27-35	2	
115-0			266B-53	2	
			266F-8		
117-31588			237-27	REF	
117-31850-3		1AMF-1560-395-5443	70-10	REF	
			80-41	REF	
117-47126		1AMB-1560-524-3667	246-22	1	
117-52116			109-17	REF	
117-54083		1AMB-6140-251-5179	84	1	
117-71160			59-37	3	
			60-7		
			67-17		
1174A		5200-466916-5	260-27	REF	
11749		1AML	150-53	REF	
			158-49	REF	
1175		5200-466916-6	260-27	2	
11751		4256	150-54	REF	
			158-50	REF	
118-1-1000			176-10	1	
11800			121-29	1	
11802			121-41	1	
12-1348-77			191-50	1	
120-100			187-26	2	
			188	REF	
120-48135		1AMB-1560-376-5969	246-17	2	
120-58508		1AMF-1560-345-2765	219-26	1	
120-63265		1AMF-1560-376-5970	131-1	1	
121002XX			186A	1	
1218			90-3	REF	
1218A			90-3	1	
123-58164-3		1AMF-1560-263-7903	116-69	1	
123-71063		1AMB-1560-310-5988	178-27	40	
			179-33		
			180-48		
			180A-46		
12341			121-39	1	
124D100-5		4824	266E-23	1	
12554			191	2	
			197-25	REF	
1267-12			200-44	REF	
12854			191-12	2	
			191-21		
130-12083			8-34	6	
			9-42		
			10-41		
130-48668		1AMF-1560-326-2723	89-33	2	
130-52086		1AMB-1560-565-6652	255-25	1	
130-58103-3		1AMF-1650-185-1845	143-30	1	
130-58104-3			143-35	1	
130-58105		1AMF-1560-327-2490	143-33	1	
13223			121-34	1	
13225			121-32	1	
134-51081		1AMB-1560-320-5698	22-28	8	
			23-28		
134-52545		1AMF-1680-247-9480	115-12	2	
134-52546		1AMF-1560-312-9949	115-3	4	
			115-44		
134-52576-5		1AMF-1560-376-5974	115-32	2	
134-52582		1AMF-1560-525-8062	115	2	
134-52819		1AMF-1560-263-7902	47-17	3	
			48-18		
13403			224-2	REF	
138106		3360-073010640	232-27	5	
			235-12		
138187		3360-395370400	163-23	4	
			232-39		
			235-21		
138604		3360-073012661	163-24	2	
138618			77-16		
			77-7	4	
			112-14		
140-68046		1AMB-1560-663-1651	59-7	3	
			61-6		

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	USABLE ON CODE
140-68046		1AMB-1560-663-1651	67-23		
140-71041		1AMB-5970-333-6174	70-36	2	
			71-36		
140-71042			70-35	2	
			71-35		
140-71043		1AMB-5826-620-6144	70-37	2	
			71-37		
140S1-12			249	REF	
140S11-12-6			250-25	1	
140S11-4-6			250-26	1	
140S11-8-6			250-7	1	
140S2-12			249	REF	
141-43023		1AMB-1560-166-8897	232-26	5	
			235-11		
141-58396		1AMB-1650-219-1990	125-13	1	
			129-11		
1416			133-19	REF	
142-58646		1AMF-1650-327-2491	89-1	2	
142-61043			260-2	4	
144-42010		1AMF-1560-244-6416	225-13	1	
144-42013		1AMB-1560-524-3681	225-12	1	
144-47055		1AMF-1560-320-5840	246-18	1	
144-54071		1AMB-1560-386-7616	147	13	
			147-34		
			151		
			151-32		
			154-32		
			158-48		
			179-27		
			252-22		
144-54246			40-21	3	
			41-19		
146-42541			63-26	3	
			64-9		
			66-27		
146-48699		1AMF-1560-345-2766	94-6	1	
146-48700		1AMF-2915-438-0072	94-4	1	
146-48700-3			94-5	1	
146-523160		1AMF-1560-247-9483	74-7	1	
146-52603		1AMF-1560-438-0147	108-19	4	
			115-23		
146-52604		1AMF-1560-326-2725	108-20	4	
			115-24		
146-58211		1AMF-1560-326-2726	61-18	5	
			62-31		
			64-47		
14602-1JA1			100	1	
147-31078		1AMB-1560-547-7248	79-22	2	
147-53008		1AMB-1560-547-7249	57-36	REF	
147-54698			144-45	1	
147-58045-21			131-17	REF	
147-58045-23			134-18	REF	
147-58358			130-24	1	
147-71085		1AMF-1560-525-9622	70-45	2	
			71-45		
147-71086		1AMF-1560-525-9623	70-44	2	
			71-44		
149-31799			66-41	1	
149-52016		1AMF-1560-376-5980	79-8	2	
15		6515-597-3604	253	REF	
15A			253	REF	
15C1-3			181-3	4	
15C1-5		1AMB-1560-323-6267	174	6	
151-31849		1AMF-1560-376-5981	116-1	1	
151-43061		1AMB-1560-251-5167	232-11	1	
151-43062		1AMB-1560-526-2820	232-10	1	
151-43078		1AMB-1560-320-5703	232-24	1	
151-43083		1AMJ	232-23	1	
151-48125		1AMB-1560-312-9938	26-26	REF	
151-52033		1AMB-1560-376-5982	205-1	REF	
151-52040		1AMB-1560-477-9363	240-23	4	
			241-20		
151-54094			66-39	8	
			157-6		
			170-9		
			180-29		
			183-2		
			266-7		
151-54323		1AMB-1560-320-5704	215-15	4	
151-54324		1AMB-1680-393-9837	215-16	6	
151-54326		1AMB-5315-200-6450	215-13	6	
151-54339		1AMF-1560-526-3333	75-45	1	
151-54526		1AMB-1560-327-2115	95-42	2	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	USABLE ON CODE
151-54526		1AMB-1560-327-2115	95-47		
151-58010		1AMB-1650-219-2041	125-10	2	
			129-8		
151-58015-11			136-16	REF	
151-58015-19			119-17	REF	
151-58313		1AMB-1650-189-1276	125-11	2	
			129-9		
151-58314		1AMJ-1560-521-4437	125-15	2	
			129-13		
151-71023-10		1AMF-1560-525-9624	70-34	2	
			71-34		
			177-32	REF	
			177A-32	REF	
151-71023-7			70-38	2	
			71-38		
151-71026-15			70-46	REF	
1510-5			228-52	10	
15174			248-47	REF	
15175			248-43	REF	
15191-10			66-52	2	
15191-12			66-53	2	
152-54204		1AMB-5930-185-4994	215-5	3	
152-54208			214-75	4	
			215-17		
153-71172			174-23		
			174-7	4	
			175-19		
			175-7		
15526-10			142-12	1	
15526-12			142-13	1	
15536-10			142-14	1	
15536-12			142-15	1	
156-14035-1			5-4	1	
156-14035-2			5	1	
157-43022			95-43	2	
			95-48		
157-48257		1AMF-1560-187-6717	2	6	
			26-14		
			35-35		
157-51062			99-7	1	
157-71041		1AMB-1560-330-6759	177-20	6	
			184-11		
			177A-20		
157-71042		1AMJ-1560-329-3513	174	3	
			175-21		
			184-12		
15797C		6700-184694-3	260-9	4	
159-00002			1	1	
159-00010			1	NP	
159-10001			1-3	NP	
			3	NP	
			3-1		
159-10002-1		1AMF-1560-251-0284	53-45	1	
159-10002-2		1AMF-1560-251-0281	59-54	2	
			60-33		
159-10003-1		1AMF-1560-187-6719	3-15	1	
159-10003-2		1AMF-1560-187-6720	3	1	
159-10004-1		1AMF-1560-187-6721	3-13	1	
159-10004-2		1AMF-1560-187-6722	3	1	
159-10005-1		1AMF-1560-187-6723	3-19	1	
159-10005-2		1AMF-1560-187-6724	3	1	
159-10006		1AMF-1560-525-9625	3-17	REF	
159-10007		1AMF-1560-187-4970	3-18	1	
159-10008-1		1AMF-1560-187-4971	3-10	1	
159-10008-2		1AMF-1560-187-4972	3	1	
159-10009-1		1AMF-1560-187-4973	3-11	1	
159-10009-2		1AMF-1560-187-4974	3	1	
159-10010			1	2	
			4	REF	
159-10011-1		1AMF-1560-188-2410	3-14	1	
159-10011-2		1AMF-1560-188-2411	3	1	
159-10012-1		1AMF-1560-188-2412	3-16	1	
159-10012-2		1AMF-1560-188-2413	3	1	
159-10012-3		1AMF-1560-251-0282	3	1	
159-10012-4		1AMF-1560-251-0279	3	1	
159-10013		1AMF-5310-308-3376	22-29	8	
			23-30		
159-13002			18	REF	
159-13002-1			20	1	
159-13002-101			20	1	
159-13002-102			20	1	
159-13002-2			20	1	
159-13002-201			20	2	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-13002-201			21		
159-13003			18	REF	
159-13003-1			20	1	
159-13003-101			20	1	
159-13003-102			20	1	
159-13003-2			20	1	
159-13003-201			21	1	
159-13003-202			21	1	
159-13004-1			19	1	
159-13004-101			19	1	
159-13004-2			19	1	
159-13004-201			19	1	
159-13004-202			19	1	
159-13005-1			22	1	
159-13005-101			23	1	
159-13005-102			23	1	
159-13005-2			22	1	
159-13006-1			15-35	1	
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			19	REF	
159-13006-101			15	1	
			19	REF	
159-13006-2			15	1	
			19	REF	
159-13006-201			16-35	1	
			19	REF	
159-13006-202			16	1	
			19	REF	
159-13006-301			16	1	
			19	REF	
159-13006-302			16	1	
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159-13007-1			20-3	1	
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159-13007-101			20	1	
			22	REF	
159-13007-102			20	1	
			22	REF	
159-13007-2			20	1	
			22	REF	
159-13007-202			20	1	
159-13007-21	1AMF	1560-327-2494	22-30	4	
			23-31		
159-13007-23	1AMF	1560-327-2495	22-31	4	
			23-32		
159-13007-25	1AMF	1560-327-2496	22-32	4	
			23-33		
159-13007-301			21-3	1	
			23	REF	
159-13007-302			21	1	
			23	REF	
159-13007-401			21	1	
			23	REF	
159-13007-402			21	1	
			23	REF	
159-13008			20	REF	
			21	REF	
159-13009			19	2	
159-13010			19	2	
159-13011			19	2	
159-13012			19	2	
159-13013			3-40	REF	
159-13013-1			19-48	1	
159-13013-2			19	1	
159-13014	1AMF	1560-035-2351	3-41	REF	
			22-15	4	
			23-15		
159-13015-1	1AMF	1560-525-3745	3-38	REF	
			19-13	1	
159-13015-2	1AMF	1560-525-3746	19	1	
159-13016-1			19-36	1	
159-13016-2			19	1	
159-13017-1			19-37	1	
159-13017-2			19	1	
159-13018			22	1	
159-13018-11			23	1	
159-13019	1AMF	1560-699-4089	22	2	
			23		
159-13022-1	1AMF	1560-035-2352	15-32	2	
			16-32		
159-13022-2	1AMF	1560-035-2353	15	2	
			16		
159-13023-1			19-32	1	
159-13023-2			19	1	
159-13024	1AMF	1560-657-8414	22	1	
159-13024-11			23	1	
159-13025	1AMF	1560-545-6585	22	2	
			23		
159-13026			18	REF	
159-13026-1			15-34	1	
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159-13026-101			15	1	
			20	REF	
159-13026-102			15	1	
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159-13026-2			15	1	
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159-13026-202			15	1	
			20	REF	
159-13026-301			15	1	
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159-13030-1			20	1	
159-13030-2			20	1	
159-13030-21			21	1	
159-13030-22			21	1	
159-13038-5			20-37	2	
			21-37		
159-13038-6			20	2	
			21		
159-13049-1	1AMF	1560-188-2414	17-24	1	
159-13049-2	1AMF	1560-188-2415	17	1	
159-13050-1	1AMF	1560-188-2416	18	1	
159-13050-2	1AMF	1560-188-2417	18	1	
159-13070-1	1AMF	1560-657-8425	19-11	1	
159-13070-102			19	1	
159-13070-2	1AMF	1560-657-8426	19	1	
159-13080	1AMF	1560-035-2354	18-12	2	
159-13080-11	1AMF	1560-035-2355	18	2	
159-13083-1			17	1	
159-13083-2			17	1	
159-13089			19-40	2	
159-13090-1			19-41	1	
159-13090-2			19	1	
159-13096	1AMF	1560-304-3232	17-9	2	
159-13098	1AMF	1560-304-3233	18-7	2	
159-13100-1	1AMF	1560-327-2497	13-27	REF	
159-13100-102			13	REF	
159-13100-2	1AMF	1560-327-2498	13	REF	
159-13100-201	1AMF	1560-244-3802	13-27	2	
			15	REF	
159-13100-202	1AMF	1560-251-4596	13	2	
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159-13100-3	1AMF	1560-304-3234	15-22	1	
159-13100-301	1AMF	1560-307-2238	13	2	
			15	REF	
159-13105-1			20	2	
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159-13105-2			20	2	
			21		
159-13109-1			19	1	
159-13109-2	1AMF	1560-566-5940	19	1	
159-13109-21			19	1	
159-13109-31			19	REF	
159-13109-32			19	REF	
159-13130-1			20	2	
			21		
159-13130-2			20	2	
			21		
159-13131-1			20-36	2	
			21-36		
159-13131-2			20	2	
			21		
159-13132-1			20-7	2	
			21-7		
159-13132-2			20	2	
			21		
159-13142-1			19	1	
159-13142-2			19	1	
159-13142-22			19	1	
159-13148-1			19-49	1	
159-13148-2			19	1	
159-13149-1			22-26	2	
			23-26		
159-13149-2			22	2	
			23		
159-13154-1			19	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	USE CODE
159-13154-13			19-6	2	
159-13154-2			19	1	
159-13154-21			19	1	
159-13154-31			19	1	
159-13154-32		1AMF-1560-657-8439	19	1	
159-13155-1			20	1	
159-13155-15		1AMF-1560-657-8440	20-4	2	
159-13155-17		1AMF-1560-657-8441	20-5	2	
159-13155-2			20	1	
159-13158-3		1AMF-1560-376-5999	9-51	8	
			10-49		
			20-6		
			21-6		
159-13160			22-27	4	
			23-27		
159-13165			15-31	2	
159-13204		1AMF-1560-314-9245	4-34	2	
159-13206		1AMF-1560-336-7616	4-35	1	
159-13206-11			4-35	REF	
159-13251-1			19-26	1	
159-13251-2			19	1	
159-13252			19-27	4	
159-13253-1			19-28	1	
159-13253-2			19	1	
159-13266-1		1AMF-1560-188-2418	17-27	1	
159-13266-2		1AMF-1560-198-7574	17	1	
159-13268		1AMF-1560-198-7575	18-15	2	
159-13269		1AMF-1560-188-2300	17-22	2	
159-13270		1AMF-1560-188-2301	17-20	1	
159-13295-1			17-15	2	
159-13295-11		1AMF-1560-327-2499	17	2	
159-13295-12		1AMF-1560-327-2500	17	2	
159-13295-2			17	2	
159-13302		1AMF-1560-188-2302	17-17	2	
159-13302-11		1AMF-1560-188-2303	17	2	
159-13324		1AMF-1560-188-2304	17-13	1	
159-13326-1		1AMF-1560-657-8452	18-26	1	
159-13326-2		1AMF-1560-657-8453	18	1	
159-13327-1			18	1	
159-13327-2			18	1	
159-13328-11			15	AR	
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159-13328-13			15	AR	
			16		
159-13328-15			15	AR	
			16		
159-13328-17			15	AR	
			16		
159-13328-3			15-3	AR	
			16-3		
159-13328-5			15-18	AR	
			16-18		
159-13328-7			15-12	AR	
			16-12		
159-13328-9			15-11	AR	
			16-11		
159-13333		1AMF-1560-251-0280	13-21	4	
			14-21		
159-13333-3			13-23	4	
			14-23		
159-13333-5			13-19	8	
			13-22		
			14-19		
			14-22		
159-13333-7		1AMF-1560-251-9579	13-18	4	
			14-18		
159-13333-9			13-20	4	
			14-20		
159-13334-3		1AMF-4730-595-0290	13-24	12	
			14-24		
159-13334-5		1AMF-4730-142-1056	13-25	16	
			14-25		
159-13334-7		1AMF-4730-142-1054	13-26	8	
			14-26		
159-13335-1		1AMF-1560-307-2239	9-36	6	
			10-36		
			17-8		
			18-6		
9-13335-2		1AMF-1560-506-6250	17	2	
			18		
9-13339		1AMF-1560-376-6000	20-20	4	
			21-20		
9-13343		1AMF-1560-251-0277	17-4	4	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	USE CODE
159-13345		1AMF-1560-541-9351	4-29	1	
159-13347-1		1AMF-1560-035-2356	17-3	1	
159-13347-2		1AMF-1560-035-2357	17	1	
159-13348-1		1AMF-1560-251-0278	18	1	
159-13348-2		1AMF-1560-251-0275	18	1	
159-13349-1		1AMF-1560-251-0276	18	1	
159-13349-2		1AMF-1560-251-0273	18	1	
159-13350		1AMF-1560-304-3235	18-29	2	
159-13351		1AMF-1560-326-2727	17-5	REF	
159-13351-11		1AMF-1560-320-5841	17-5	5	
			62-32		
159-13352-1		1AMF-1560-214-9348	18-10	1	
159-13352-2		1AMF-1560-035-2358	18	1	
159-13353-1		1AMF-1560-188-2305	18-2	1	
159-13353-2		1AMF-1560-188-2306	18	1	
159-13355		1AMF-1560-292-0152	17-25	2	
159-13356		1AMF-1560-251-5983	4-39	1	
159-13357		1AMF-1560-251-5984	4-40	1	
159-13358		1AMF-1560-251-5981	4-41	1	
159-13601-1			2	2	
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159-13601-101		1AMF-1560-035-2359	2	2	
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			13	REF	
159-13601-2			2	2	
			5		
			13	REF	
159-13901-1		1AMF-1560-314-9246	2-2	1	
159-13901-101		1AMF-1560-326-2728	2	1	
159-13901-2		1AMF-1560-251-0185	2	1	
159-14001-1			7	REF	
159-14001-101			7	1	
			9	REF	
159-14001-102		1AMF-1560-035-2360	7	1	
			9	REF	
159-14001-2			7	REF	
159-14001-201		1AMF-1560-251-4597	7-13	1	
			9	REF	
159-14001-202		1AMF-1560-251-4598	7	1	
			9	REF	
159-14001-301			7	1	
			9	REF	
159-14004-1			6	1	
159-14004-2			6	1	
159-14005-1			9	1	
159-14005-2			9	1	
159-14006-1			6	REF	
159-14006-101			6	1	
159-14006-102			6	1	
159-14006-2			6	REF	
159-14006-201			6	1	
159-14006-25		1AMF-1560-657-8458	6-10	1	
159-14007-1			9-37	REF	
159-14007-101			9-37	1	
159-14007-102			9	1	
159-14007-2			9	REF	
159-14007-201			9	1	
159-14007-202			9	1	
159-14011-1		1AMF-1560-376-6001	6-14	1	
159-14011-2			6	1	
159-14012-1		1AMF-1560-520-5728	6-13	1	
159-14012-2		1AMF-1560-520-5729	6	1	
159-14013-1		1AMF-1560-188-2307	11-7	2	
159-14013-2		1AMF-1560-188-2308	11	2	
159-14021-3		1AMF-1560-376-6007	6-12	4	
			19-1		
159-14025		1AMF-1560-188-2309	9-13	18	
			10-13		
			45-17		
			46-19		
159-14028		1AMF-1560-694-7117	6-23	6	
			9-33		
			10-33		
159-14036-1		1AMF-1560-187-6218	5-2	1	
159-14036-11		1AMF-1560-251-5982	5	1	
159-14036-12		1AMF-1560-251-5979	5	1	
159-14036-2		1AMF-1560-187-6219	5	1	
159-14101-1			9	1	
159-14101-17			9-38	2	
159-14101-2			9	1	
159-14102-1			9	2	
			10		

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-14102-17			9-39	4	
159-14102-2			9	2	
			10		
159-14102-27		1AMF-1560-327-2501	10-38	2	
159-14106		1AMF-1560-251-5980	9-9	6	
			10-9		
159-14107-1		1AMF-1560-506-6251	9-8	2	
			10-8		
159-14107-2		1AMF-1560-314-9247	9	2	
			10		
159-14111-1		1AMF-1560-314-9248	9-7	2	
			10-7		
159-14111-2		1AMF-1560-314-9249	9	2	
			10		
159-14112-3		1AMF-5340-188-2427	9-52	2	
			10-42		
			11-18	REF	
159-14112-4		1AMF	9-53	2	
			10-43		
			11-19	REF	
159-14112-5			11-9	2	
159-14112-6			11-10	2	
159-14113-11		1AMF-1560-302-3233	18-8	2	
159-14113-3		1AMF-1560-328-8510	11-6	4	
159-14113-5		1AMF-1560-304-3236	18-9	2	
159-14113-7		1AMF-1560-304-3237	17-11	2	
159-14113-9		1AMF-1560-304-3238	17-10	2	
159-14117-1			11-8	2	
159-14117-2			11	2	
159-14155-1			9	1	
159-14155-2			9	1	
159-14158		1AMF-1560-198-7174	5-2	1	
159-14194		1AMF-1560-251-5977	11-2	2	
159-14200		1AMF-1560-314-9250	9-46	4	
			10-47		
159-14201		1AMF-1560-314-9251	9-47	4	
			10-48		
159-14239-1			-	REF	
159-14239-2			7	REF	
159-14295-1			7-6	1	
159-14295-2		1AMF-1560-511-4849	7	2	
			8		
159-14297			7-20	REF	
			8-37	REF	
159-14297-1		1AMF-1560-314-9252	9-48	2	
			10-58		
159-14297-2		1AMF-1560-303-2699	9	2	
			10		
159-14298-1			7	1	
159-14298-101		1AMF	7-1	1	
159-14298-102		1AMF-1560-251-0187	7	2	
			8		
159-14298-2		1AMF-1560-525-9628	7	1	
159-14298-23		1AMF-1560-326-2730	7-11	2	
			8		
159-14601-101			2	REF	
159-14601-102			2	REF	
159-14601-201			2	2	
			5-15		
			7	REF	
159-14601-202			2	2	
			5		
			7	REF	
159-14601-301			5	1	
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159-14602-1			1	2	
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159-14602-2			1	2	
			4-16		
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159-14901-1		1AMF-1560-327-2502	2	REF	
159-14901-2		1AMF-1560-525-9629	2	REF	
159-14901-201		1AMF-1560-251-0190	2	1	
159-14901-202		1AMF-1560-251-0191	2	1	
159-14901-301		1AMF-1560-251-0192	2	1	
159-16001-201		1AMF-1560-525-9632	2	REF	
159-16001-23		1AMF-1560-328-8524	25-20	2	
159-16025		1AMF-5306-049-9995	5-10	2	
159-16101		1AMF-1560-345-6089	5-18	REF	
			25-10	2	
159-16102-3		1AMF-1560-035-2365	25-7	2	
159-16102-5		1AMF-1560-035-2366	25-1	2	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-16111		1AMF-1560-244-6394	9-29	4	
			10-29		
159-16112		1AMF-1560-244-6395	9-21	4	
			10-21		
159-16113		1AMF-1560-244-6396	9-10	4	
			10-10		
159-16151			25	NP	
159-16151-3			25-28	2	
159-16151-37		1AMF-1560-511-4851	25-36	2	
159-16151-39		1AMF-1560-511-4852	25-37	4	
159-16151-5			25-29	2	
159-16151-51		1AMF-1560-511-4853	25-42	2	
159-16151-53		1AMF-1560-511-4854	25-41	2	
159-16151-55		1AMF-1560-511-4855	25-39	2	
159-16151-57		1AMF-1560-511-4856	25-38	2	
159-16151-59			25-43	2	
159-16151-61		1AMF-1560-307-2240	25-40	2	
159-16152		1AMF-1560-308-6384	25-9	2	
159-16153		1AMF-1560-511-4857	25-8	2	
159-16154-1		1AMF-1560-511-4858	25-5	2	
159-16154-2		1AMF-1560-511-4859	25-6	2	
159-16155		1AMF-1560-511-4860	25-4	2	
159-16162		1AMF-1560-251-4599	25-44	2	
159-16201		1AMF-1560-222-4901	25-13	2	
159-16202-3		1AMF-5340-188-2419	25-17	2	
159-16202-5		1AMF-5340-198-7716	25-12	2	
159-16209			25-18	2	
159-16219		1AMF-1560-328-8550	25-26	2	
159-16229		1AMF-1560-188-2315	36-24	1	
159-16230		1AMF-1560-188-2316	5-19	REF	
			25-22	2	
159-16230-5		1AMF-1560-657-8462	25	2	
159-16231		1AMF-1560-251-2820	25-23	2	
159-16233			25-45	REF	
			36-42	REF	
159-16233-5		1AMF-1560-035-2367	12-16	1	
			13-33	REF	
			14-38	REF	
159-16233-6		1AMF-1560-097-4442	12	1	
			13	REF	
			14	REF	
159-16234		1AMF-1560-662-5870	12-20	1	
159-16235		1AMF-5305-310-9956	36-21	1	
159-16236		1AMF-1560-198-7717	5-20	REF	
			13-2	2	
			14-2		
159-16237		1AMF-5305-376-6016	13-3	2	
			14-3		
159-16239		1AMF-1560-198-7718	13	2	
			14		
159-16240		1AMF-1560-657-8463	13	2	
			14		
159-16242		1AMF-1560-376-6017	13-8	2	
			14-8		
159-16243		1AMF-1560-198-7719	13-7	2	
			14-7		
159-16244		1AMF-5307-092-4389	36-27	1	
159-16245		1AMF-5310-308-3377	36-28	1	
159-16246		1AMF-1560-312-9955	12-21	1	
159-16247		1AMF-1560-662-8124	12-22	1	
159-16248		1AMF-1560-244-2051	25	2	
159-16301		1AMF-1560-198-7720	2	4	
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159-16301-21		1AMF-1560-304-3239	25-21	4	
159-18001-1		1AMF-1560-525-9634	2	REF	
159-18001-102		1AMF-1560-525-9635	2	REF	
159-18001-2		1AMF-1560-525-9636	2	REF	
159-18001-201		1AMF-1560-251-9580	2	REF	
159-18001-202		1AMF-1560-525-9637	2	REF	
159-18001-301		1AMF-1560-035-2368	2	REF	
159-18001-302		1AMF-1560-035-2369	2	REF	
159-18001-401		1AMF-1560-210-9761	2	1	
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			24	REF	
159-18001-402		1AMF-1560-035-2370	2	1	
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159-18011-5		1AMF-1560-035-2371	15-5	2	
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159-18012-5	1AMF-1560-035-2373	15-13	2	
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159-18012-6	1AMF-1560-035-2374	15	2	
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159-18013-5	1AMF-1560-035-2375	15-19	2	
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159-18013-6	1AMF-1560-035-2376	15	2	
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159-18015	1AMF-1560-304-9735	24	2	
159-18018-1	1AMF-1560-035-2377	24-13	2	
159-18018-21	1AMF-1560-035-2378	24	1	
159-18019-1	1AMF-1560-187-7237	24-14	1	
159-18019-2	1AMF-1560-187-7238	24	1	
159-18019-21	1AMF-1560-035-2379	24	1	
159-18019-22	1AMF-1560-035-2380	24	1	
159-18037-1	1AMF-1560-304-3240	24	1	
159-18037-2	1AMF-1560-304-3241	24	1	
159-18037-9		24-15	2	
159-18039	1AMF-5315-286-8699	24-11	4	
159-18041-1	1AMF-1560-376-6020	24	3	
159-18041-2	1AMF-1560-376-6021	24-12	3	
159-18042-1	1AMF-1560-376-6022	24-16	3	
159-18042-2	1AMF-1560-376-6023	24	3	
159-18050		117-1	REF	
159-18050-11	1AMF-1560-525-9639	117-1	1	
		155-59	REF	
		156-44	REF	
159-18050-21	1AMF-1560-244-3702	117	1	
159-18051	1AMF-1560-662-7541	13-15	4	
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159-18074-1		24	1	
159-18074-2		24	1	
159-18093-1		24	1	
159-18093-2		24	1	
159-18100		50-7	NP	
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		117	NP	
159-18102		116-69	REF	
159-18102-1	1AMF-1560-511-4861	24-8	1	
159-18102-2	1AMF-1560-345-6205	24	1	
159-18103	1AMF-1560-511-4863	24-2	2	
159-18104	1AMF-1560-511-4864	24-1	2	
159-18110-1		24	1	
159-18110-2		24	1	
159-18129	1AMF-1560-187-7240	117-64	1	
159-18130		117-66	1	
159-18131		117-65	1	
159-18132	1AMF-1560-506-6252	64-12	1	
159-18140	1AMF-1560-035-2381	116	1	
159-18147	1AMF-1560-568-2714	24-19	4	
159-18151	1AMF-1560-657-8467	24-7	2	
159-18200		50-8	NP	
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159-18201-5	1AMF-1560-210-9762	117-28	1	
159-18201-6	1AMF-1560-210-9763	117-29	1	
159-18203-5	1AMF-1560-376-6026	117-13	1	
159-18203-6	1AMF-1560-376-6027	117-14	1	
159-18204-3	1AMF-1560-185-6228	117-35	1	
159-18205	1AMF-1560-219-4039	117-36	2	
159-18207	1AMF-1560-244-2052	117-37	1	
159-18208	1AMF-1560-697-0281	117-49	1	
159-18209	1AMF-1560-244-2053	117-50	1	
159-18212		131-50	REF	
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159-18212-4		117	1	
159-18212-5	1AMF-1560-210-9764	117-55	1	
159-18212-6	1AMF-1560-210-9765	117-56	1	
159-18213-1	1AMF-1560-244-2054	20-31	2	
		21-31		
159-18213-2	1AMF-1560-244-2055	20	2	
		21		
159-18221-3	1AMF-1560-585-9949	117-20	1	
159-18221-5	1AMF-1560-657-8469	117	1	
159-18223		15-36	REF	
		16-36	REF	
159-18223-1	1AMF-1560-251-4668	20-32	2	
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159-18223-2	1AMF-1560-251-4669	20	2	
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159-18224	1AMF-5306-049-9996	117-60	2	
159-18225	1AMF-1560-332-3051	117-30	1	

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159-18228-3	1AMF-5310-638-9289	116-32	1	
159-18228-5		117-19	1	
159-18230	1AMF-1560-187-7242	116-26	1	
159-18231	1AMF-1560-393-9723	116-31	1	
159-18232		116-25	1	
159-18233		64-1	1	
159-18234		52	2	
		53		
159-18235	1AMF-1560-251-5978	116-19	1	
159-18236	1AMF-1560-247-9486	116-18	1	
159-18242	1AMF-1560-376-6031	116-40	1	
159-18245		116-24	1	
159-18245-101	1AMF-1560-657-8470	116	1	
159-18246	1AMF-1560-214-9349	116-46	REF	
159-18250	1AMF-1560-251-4671	64-5	1	
159-18250-5		64-7	1	
159-18250-7	1AMF-1560-657-8471	64-8	1	
159-18250-9		64-5	1	
159-18251		117-12	1	
159-18254		117-18	1	
159-18255-3	1AMF-1560-388-8483	117-16	1	
159-18255-5	1AMF-1560-388-8484	117-17	1	
159-20001		1-8	NP	
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		55-5		
159-21001	1AMF-1560-187-7241	42-23	2	
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159-21002		43-4	2	
159-21083		43	2	
159-21301		43	2	
159-21302		43	2	
		47-56	REF	
159-21311	1AMF-1560-187-7243	43-1	2	
159-21401		43-10	REF	
159-21401-10	1AMF-1560-214-9350	43-10	2	
159-21402-3	1AMF-1560-657-8472	47-50	1	
159-21402-5	1AMF-1560-035-2382	47	1	
159-21405	1AMF-1560-035-2383	47-42	1	
159-21406	1AMF-1560-650-5053	43-6	2	
159-21409		42-48	REF	
159-21409-1	1AMF-1560-035-2384	86-1	REF	
159-21409-2	1AMF-1560-035-2385	86	REF	
159-21409-7	1AMF-1560-035-2386	86-1	1	
159-21409-8	1AMF-1560-035-2387	86	1	
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159-21410-2		43	2	
159-21411-1	1AMF-1560-035-2388	47-5	1	
159-21411-2	1AMF-1560-035-2389	47-5	1	
159-21412	1AMF-5340-026-8610	47	1	
159-21413	1AMF-1560-657-8473	47	1	
159-22001	1AMF-1560-187-7244	42-31	2	
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159-22001-21	1AMF-1560-376-6032	45-9	2	
159-22007	1AMF-1560-314-9253	45	2	
159-22302	1AMF-1560-308-6386	45	2	
159-22302-5		45-27	2	
159-22305	1AMF-1560-657-8499	45-7	2	
159-22306	1AMF-1560-341-0335	45	2	
159-22307	1AMF-1560-312-9959	45	2	
159-22311	1AMF-1560-187-7245	45-1	2	
159-22403	1AMF-1560-650-5054	45-28	2	
159-22404	1AMF-1560-650-5055	45-29	2	
159-22405	1AMF-1560-376-6033	45-8	2	
159-22408	1AMF-1560-251-2222	47-31	2	
159-22410	1AMF-1560-327-2505	47-36	1	
159-22414		45-22	2	
159-22415	1AMF-1560-301-7979	45-26	2	
159-22416	1AMF-1560-511-4865	45-6	2	
159-22501	1AMF-1560-187-7246	45-10	2	
159-22501-9	1AMF-5340-188-2431	45-11	2	
159-22506	1AMF-1560-187-7247	45-13	2	
159-22507	1AMF-1560-035-2390	47-26	2	
159-22509		118-69	REF	
159-22509-1		47-14	1	
159-22509-2		47	1	
159-22511	1AMF-5340-229-8126	45-12	2	
159-22512-3	1AMF-1560-187-7248	47-10	1	
159-22512-5	1AMF-1560-241-1895	47	1	
159-22512-7	1AMF-5315-664-6741	47-10A	1	
159-22513		47-13	2	
159-22531		42-50	REF	
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159-23068			44	1	
159-23301			44	1	
159-23302			44	1	
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159-23306		1AMF-1560-098-8053	44-31	1	
			48-28	REF	
159-23319		1AMF-1560-241-1906	44-27	1	
159-23320		1AMF-1560-563-6622	42-47	REF	
			86	1	
159-23324		1AMF-1560-251-4672	44-25	1	
159-23330			86	1	
159-23402-5		1AMF-1560-376-6036	44-29	1	
159-23410		1AMF-1560-244-3542	86-37	1	
159-23411-3		1AMF-1560-376-6037	44-28	1	
159-23411-5		1AMF-1560-327-2507	44-26	1	
159-23411-9		1AMF-1560-376-6040	43-5	2	
159-23413		1AMF-1560-376-6041	86	1	
159-24001		1AMF-1560-241-1907	42-6	1	
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159-24001-23			46-3	1	
159-24107			46	1	
159-24301			46	1	
159-24301-5		1AMF-5340-188-2432	46-4	1	
159-24302		1AMF-1560-035-2391	46-2	1	
159-24305		1AMF-1560-241-1903	46-24	1	
159-24322			46	1	
159-24401		1AMF-1560-506-9869	46-8	1	
159-24402		1AMF-1560-506-6253	46-15	1	
159-24403		1AMF-1560-376-6043	46-22	1	
159-24404		1AMF-1560-613-4798	86-36	1	
159-24409			46-10	1	
159-24410			46-12	1	
159-24411			46-14	1	
159-24415		1AMF-1560-328-8607	86	1	
159-24501		1AMF-1560-241-1909	46-5	1	
159-24501-9		1AMF-5340-188-2433	46-6	1	
159-24502-11		1AMF-1560-650-5713	42-43	2	
159-24502-13			42	1	
159-24502-3		1AMF-1560-241-1888	42-38	2	
159-24502-5		1AMF-1560-233-4133	42-39	1	
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159-24503		1AMF-1560-304-3242	46-7	1	
159-24504-3		1AMF-1560-233-4134	47-19	1	
159-24504-5		1AMF-1560-246-3213	47	1	
159-24504-7		1AMF-1560-246-3214	48-13	1	
159-24507		1AMF-1560-214-9351	48-7	1	
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159-24508		1AMF-1560-662-5545	47-27	3	
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159-24509		1AMF-5340-320-5846	47-20	3	
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159-24510-3		1AMF-5310-327-2508	47-22	1	
159-24510-5		1AMF-5310-327-2509	47	1	
159-24510-7		1AMF-5310-327-2510	48-14	1	
159-24511-3			47-16	2	
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159-24511-5		1AMF-1560-649-5663	47	1	
159-24512			47-12	3	
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159-24519			48-24	1	
159-24520			47-21	3	
			48-15		
159-24521		1AMF-1560-241-1896	48-19	1	
159-24521-3			48-21	1	
159-24522			48-23	1	
159-24531			42-49	REF	
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159-25001-1		1AMF-1560-233-4132	42-2	1	
159-25001-2		1AMF-1560-233-4131	42	1	
159-25002		1AMF-1560-241-1886	42-3	1	
159-25003		1AMF-1560-233-4119	42-4	1	
159-25004		1AMF-1560-233-4120	42-5	1	
159-25007		1AMF-1560-233-4121	42	1	
159-25008		1AMF-1560-233-4122	42	1	
159-25009		1AMF-1560-233-4123	42	1	
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159-31006			59	1	
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159-31006-9			59-18	1	
159-31007			64	1	
159-31008			59	1	
159-31008-3			59-46	1	
159-31008-5			59-45	1	
159-31008-7			59-44	1	
159-31009			64	1	
159-31010		1AMF-1560-233-4124	55-6	1	
159-31011		1AMF-1560-308-6387	83-15	1	
159-31011-51		1AMF-1560-251-4673	83	1	
159-31012		1AMF-1560-247-7095	84-41	1	
159-31012-11			84-42	1	
159-31012-3			84-46	1	
159-31013		1AMF-1560-251-4674	64-42	1	
159-31013-11			64-44	1	
159-31013-7			64-45	1	
159-31013-9			64-46	1	
159-31014		1AMF-1560-233-4125	63-39	1	
159-31014-11			63-42	1	
159-31014-9			63-41	1	
159-31015		1AMF-1560-198-7085	89-2	1	
159-31016		1AMF-1560-185-6225	89-39	1	
159-31016-50		1AMF-1560-251-4675	89	1	
159-31017		1AMF-1560-304-9738	89-8	2	
			61-7		
159-31018		1AMF-1560-233-4135	50	1	
159-31019			50-22	1	
159-31021		1AMF-1560-030-4887	50-27	6	
159-31021-11		1AMF-1560-030-4888	50	6	
159-31021-7			50-30	1	
159-31021-9			50-31	1	
159-31022		1AMF-1560-388-8485	50-26	9	
159-31023		1AMF-1560-326-2731	50-25	1	
159-31024			50-24	2	
159-31034		1AMF-1560-388-8486	89-46	2	
159-31035-1		1AMF-1560-388-8487	89-30	2	
159-31035-2		1AMF-1560-388-8488	89-31	2	
159-31036		1AMF-1560-388-8489	88-14	2	
159-31037-1		1AMF-1560-340-4432	88-16	1	
159-31037-2		1AMF-1680-564-5032	88	1	
159-31039-1		1AMF-1560-344-1735	88	REF	
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159-31039-2		1AMF-1560-328-8643	88	REF	
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159-31040		1AMF-5340-566-1945	88-12	2	
159-31041		1AMF-1560-376-6059	88-13	2	
159-31042		1AMF-1560-388-8490	89-50	1	
159-31043		1AMF-1560-328-8677	89-56	1	
159-31046		1AMF-1560-326-2732	89-55	1	
159-31049		1AMF-1560-388-8491	89-47	2	
159-31060-1		1AMF-1560-388-8492	89-25	1	
159-31060-2		1AMF-1560-388-8493	89	1	
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159-31061-11		1AMF-1560-327-2511	89-21	2	
159-31061-9		1AMF-1560-327-2512	89-20	1	
159-31067-1		1AMF-1560-326-2733	84-43	1	
159-31067-2		1AMF-1560-326-2734	84-44	1	
159-31068-1		1AMF-1560-393-8462	52-34	2	
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159-31068-2		1AMF-1560-393-9724	52	2	
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			89	REF	
159-31069		1AMF-1560-393-9725	89-19	1	
159-31073		1AMF-1560-251-4676	89-38	2	
159-31075		1AMF-1560-393-9726	89-17	1	
159-31086-1		1AMF-1560-525-3747	52-33	2	
			53-44		
159-31086-2		1AMF-1560-525-3748	52	2	
			53		
159-31087		1AMF-1560-393-9727	89-32	2	
159-31088-1		1AMF-1560-035-2299	64-4	1	
159-31088-2		1AMF-1560-035-2300	59-53	2	
			60-32		
159-31091			55-12	1	
159-31092			55-14	1	
159-31096			63-28	1	
159-31098			63-38	1	
159-31100		1AMF-1560-198-7086	82-14	1	

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159-31100-11		1AMF-1560-327-2513	82-15	1	
159-31100-13		1AMF-1560-393-9728	82-20	1	
159-31100-3		1AMF-1560-393-9729	82-22	1	
159-31100-5		1AMF-1560-393-9730	82-19	1	
159-31100-7		1AMF-1560-332-3052	82-17	1	
159-31100-9		1AMF-1560-327-2514	82-18	1	
159-31101			1	1	
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			51	REF	
159-31102			51-30	1	
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159-31104			62-1	1	
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159-31104-151			62	1	
			63	REF	
159-31104-201			62	1	
			63	REF	
159-31104-251			62	1	
			63	REF	
159-31105			58-1	REF	
			59	REF	
			60	REF	
159-31106			83-11	1	
159-31106-101			83	1	
159-31106-25		1AMF-1560-327-2515	83-34	1	
159-31106-27		1AMF-1560-327-2516	83-35	1	
159-31106-29		1AMF-1560-327-2517	83-36	1	
159-31107			83-12	1	
159-31107-101			83	1	
159-31107-151			83	1	
159-31107-201			83	1	
159-31108			83-49	REF	
			84	REF	
159-31108-33		1AMF-1560-386-7536	84-25	1	
159-31109			83-48	REF	
			84	REF	
159-311104			59-42	9	
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			63-13		
159-311108		1AMF-1560-307-2664	85-13	1	
159-31111		1AMF-1560-328-8691	63-1	1	
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159-31111-51			63	1	
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159-311119		1AMF-1560-326-2735	50-28	6	
159-31112		1AMF-1560-210-9766	59-43	2	
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			66	REF	
159-31112-101		1AMF-1560-210-9767	61	1	
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159-31112-151			61	1	
			66	REF	
159-31112-201		1AMF-1560-303-2708	61	1	
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159-31112-301		1AMF-1560-308-6388	61-301	1	
			66	REF	
159-311127-1		1AMF-1560-310-9957	52-36	2	
			53-32		
159-311127-2		1AMF-1560-310-9958	52	2	
			53		
159-31113-3			49-13	REF	
			83-23	1	
159-31113-4			83-26	1	
159-31113-5			49-14	REF	
			85-17	1	
159-31113-6			85	1	
159-311132		1AMF-1560-326-2736	63-27	4	
			63-43		
159-311133-1		1AMF-1560-335-7755	56-34	1	
159-311133-2		1AMF-1560-323-6798	56-35	1	
159-311137		1AMF-1560-326-2737	57-36	9	
			57-42		
			57-46		
			57-50		
			58-17		
159-311138		1AMF-1560-326-2738	86-4	1	
159-31114-3			49-15	REF	
			83-24	1	
159-31114-4		1AMF-1560-303-2710	83-25	1	
159-31114-5			49-16	REF	
			85-15	1	
159-31114-6			85	1	
159-311147		1AMF-1560-327-2518	54-20	1	
159-311147-51		1AMF-1560-348-5461	54	1	
159-311148		1AMF-1560-244-3549	64	1	
159-311149		1AMF-1560-506-6256	64	2	
159-311151		1AMF-1560-035-2392	63-49	1	
			131	REF	
159-311153		1AMF-5306-025-7223	59-30	3	
			61-27		
			63-36		
159-311154			56	1	
159-311156-1		1AMF-1560-327-2519	186-20	2	
			186A-23		
159-311156-2		1AMF-1560-327-2520	186	2	
			186A		
159-31116			52-7	1	
			67-16	REF	
159-31116-101			52	1	
			67	REF	
159-31116-151			52	2	
			53-7		
			67	REF	
159-31116-201			52	1	
			67	REF	
159-31116-251			53	1	
			67	REF	
159-311161-1			65	1	
159-311161-2			65	1	
159-311162-1			65	1	
159-311162-2			65	1	
159-311163		1AMF-1560-314-9257	65	2	
159-311170-11		1AMF-1560-327-2521	59-61	3	
			60-41		
			64-53		
159-311170-3		1AMF-1560-327-2522	89-48	1	
159-311170-5		1AMF-1560-327-2523	89-49	1	
159-311170-7		1AMF-1560-327-2524	89-42	1	
159-311170-9		1AMF-1560-327-2525	89	1	
159-311171			57	REF	
159-311171-17			57	1	
159-311171-5			57-40	1	
159-311171-51		1AMF-1560-692-1871	57	1	
159-311171-7			57-41	1	
159-311173		1AMF-1560-251-4678	57-47	1	
159-311173-5			57-48	1	
159-311173-7			57-49	1	
159-311174			57	REF	
159-311174-17			57	1	
159-311174-5			57-44	1	
159-311174-51		1AMF-1560-692-1872	57	1	
159-311174-7			57-45	1	
159-311176			86-26	1	
159-311177			86-27	1	
159-31118-1		1AMF-1560-344-1740	63	1	
159-31118-101		1AMF-1560-327-2526	63	1	
159-31118-102		1AMF-1560-213-4975	60	1	
159-31118-2		1AMF-1560-545-6587	59	2	
			60		
159-31118-32		1AMF-1560-657-8518	60	1	
159-31119			63-2	1	
			65	REF	
159-31119-101			63	1	
			65	REF	
159-31120			63-4	1	
			68	REF	
159-31120-50			63	1	
			68	REF	
159-31121			59-13	2	
			60-2		
			68	REF	
159-31121-50			60	1	
			68	REF	
159-31122		1AMF-1560-393-9731	63	1	
159-31123			59-14	2	
			60-3		
159-31123-101		1AMF-1560-327-2527	60	1	
159-31124-1		1AMF-1560-651-0917	64	1	
159-31124-2		1AMF-1560-651-0918	59	2	
			60		
159-31125			59	1	
159-31125-101			60	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE
159-31125-151			60	1	
159-31125-25			60-8	1	
159-31128-1			63	1	
159-31128-2		1AMF-1560-622-1131	59	2	
			60		
159-31133		1AMF-1560-222-7056	56	1	
159-31133-13			56-37	1	
159-31133-19		1AMF-5340-205-5947	56-9	1	
159-31133-201			56	1	
159-31133-21			56-38	1	
159-31133-211		1AMF-1560-035-2393	56	1	
159-31133-251			56	1	
159-31133-301		1AMF-1560-035-2394	56	1	
159-31133-45		1AMF-1560-345-2768	56-39	1	
159-31134			56-36	1	
			57	REF	
159-31134-101			56	1	
			57	REF	
159-31134-201			56	1	
			57	REF	
159-31135			56	1	
			57	REF	
159-31135-101			56	1	
			57	REF	
159-31136		1AMF-1560-198-7087	63-19	1	
159-31136-11			63-20	1	
159-31136-15			63-23	1	
159-31136-19			63-24	1	
159-31136-21			63-25	1	
159-31136-7			63-22	1	
159-31136-9			63-21	1	
159-31146			59-38	3	
			60-16		
			63-12		
159-31147			59-26	3	
			61-23		
			63-37		
159-31148		1AMF-1560-692-1873	59-57	3	
			60-37		
			63-14		
159-31149			52-29	1	
159-31150			59-62	REF	
			61-42	REF	
			64-54	REF	
159-31150-1		1AMF-1560-314-9258	68-1	1	
159-31150-2		1AMF-1560-244-3546	68	1	
159-31157		1AMF-1560-320-5847	63	1	
159-31158		1AMF-1560-613-8353	59	1	
159-31158-11		1AMF-1560-314-9259	61	1	
159-31174		1AMF-1560-560-4205	63	1	
159-31177		1AMF-1560-035-2401	52	2	
			53		
159-31181-1			59-15	2	
			63-7		
159-31181-2			60-4	1	
159-31185-1		1AMF-1560-651-0926	63-6	1	
159-31185-2		1AMF-1560-692-1874	59-16	2	
			60-5		
159-31190			84	1	
159-31190-101			84	REF	
159-31190-151			84	1	
159-31191			83	1	
159-31195			83	1	
159-31199			59	1	
			60		
159-31201		1AMF-1560-651-0927	59-55	3	
			60-34		
			63-8		
159-31219		1AMF-1560-304-9739	59-1	1	
			65	REF	
159-31219-101			59	1	
			61		
			65	REF	
159-31219-151			61	1	
			65	REF	
159-31220			83	1	
159-31221			83	1	
159-31222			83	1	
159-31222-101			83	1	
159-31223			83	1	
159-31223-101			83	1	
159-31226			64	1	
159-31229			83	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE
159-31229-101			83	1	
159-31230			84-48	1	
159-31250-5		1AMF-1560-323-6903	50-41	REF	
			56-4	1	
159-31264-1			63	1	
159-31264-102			60	1	
159-31264-152			60	1	
159-31264-2			59	1	
159-31265-1			63	1	
159-31265-101			63	1	
159-31265-102			60	1	
159-31265-2			59	1	
159-31266-1			63-18	1	
159-31266-2			59-56	2	
			60-36		
159-31276		1AMF-1560-547-2456	67-10	3	
159-31280		1AMF-1560-247-9527	50-23	1	
159-31281		1AMF-1560-547-2457	67-9	1	
159-31301		1AMF-1560-035-2403	55-2	1	
			85	REF	
159-31301-101		1AMF-1560-314-9261	55	1	
			85	REF	
159-31301-151		1AMF-1560-613-0566	55	1	
			85	REF	
159-31302			85-2	1	
159-31302-3		1AMF-1560-327-2532	85-8	2	
159-31302-5		1AMF-1560-327-2533	85-9	1	
159-31302-7		1AMF-1560-327-2534	85-7	1	
159-31303			85-1	1	
			86	REF	
159-31303-101		1AMF-1560-314-9262	85	1	
			86	REF	
159-31303-131		1AMF-1560-622-1137	85	1	
			86	REF	
159-31303-151		1AMF-1560-657-8563	85	1	
			86	REF	
159-31304-1			85-14	1	
159-31304-2			85	1	
159-31305-1		1AMF-1560-568-3674	84-27	1	
159-31305-2		1AMF-1560-310-9959	84-28	1	
159-31306			86-41	1	
			87	REF	
159-31307			86	1	
			87	REF	
159-31308			85-11	1	
159-31309			85-10	1	
159-31310			86-42	1	
159-31310-101			86	1	
159-31312			86-28	1	
159-31315-1			87-1	1	
159-31315-2			87	1	
159-31316-1			86-43	1	
159-31316-2			86	1	
159-31317-1			85-16	1	
159-31317-2			85	1	
159-31318-1			85-18	1	
159-31318-2			85	1	
159-31319-5		1AMF-1560-345-6272	47-57	REF	
			86-9	1	
159-31319-6		1AMF-1560-345-6318	86	1	
159-31320-1			85	1	
159-31320-2			85	1	
159-31321-1			85	1	
159-31321-2			85	1	
159-31322			86	1	
159-31325		1AMF-1560-035-2404	85-12	1	
159-31347		1AMF-1560-314-9264	86	1	
159-31382		1AMF-5340-327-2537	59-34	3	
			61-31		
			63-33		
159-31383		1AMF-1560-310-9960	59-35	3	
			61-32		
			63-32		
159-31386-1			52-42	2	
			53-16		
159-31386-2			52	2	
			53		
159-31393			59-27	2	
			61-24		
159-31400-1			84-1	1	
159-31400-2			84-2	1	
159-31401		1AMF-1560-244-3547	66-35	1	
159-31401-5			66-38	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-31401-7			66-37	1	
159-31402			83-13	2	
159-31403-1		1AMF-1560-244-3544	50	1	
159-31403-2		1AMF-1560-244-3545	50	1	
159-31403-7		1AMF-1560-327-2916	50-17	2	
159-314106			61	1	
159-314106-101			61	1	
159-314106-51			61	1	
159-314107			64	1	
159-314108			60	1	
159-314108-101			60	1	
159-314108-151			60	1	
159-314108-51			60	1	
159-314109			64	1	
159-314110			61	1	
159-314110-101			61	1	
159-314110-17			61-21	1	
159-314110-19			61-22	1	
159-314110-51			61	1	
159-314111			61	1	
159-314111-101			61	1	
159-314111-51			61	1	
159-314112			61-12	1	
159-314112-21		1AMF-1560-336-1225	61	1	
159-314113		1AMF-1560-216-1631	58	1	
159-314113-11		1AMF-1560-327-2538	58	1	
159-314114		1AMF-1560-327-2539	58	1	
159-314115		1AMF-1560-327-2540	58	1	
159-314119		1AMF-1560-327-2541	61-14	1	
159-314119-5			61-16	1	
159-314119-7			61-17	1	
159-314119-9			61-15	1	
159-314122			60	1	
159-314122-101			60	1	
159-314122-11			60-22	1	
159-314122-51			60	1	
159-314122-9			60-23	1	
159-314124			60-24	1	
159-314124-101			60	1	
159-314124-51			60	1	
159-314125		1AMF-1560-327-2542	58	1	
159-314126		1AMF-1560-327-2543	58	1	
159-314130			63	1	
159-314131			64	REF	
159-314131-10			64	1	
159-314132			64	1	
159-314133			54	1	
159-314133-100		1AMF-1560-327-2544	54	1	
159-314133-50			54	1	
159-314134		1AMF-1560-327-2545	54	1	
159-31422			87	1	
159-31423			87	1	
159-31427			64-29	1	
			108-27	REF	
159-31429			62-13	1	
			104	REF	
159-31429-3		1AMF-1560-331-9338	104-1	1	
159-31431		1AMF-1560-326-2739	62-14	1	
			104	REF	
159-31431-3		1AMF-1560-345-2771	104-11	1	
159-31439		1AMF-1560-245-9045	62-27	1	
159-31439-5			62-28	1	
159-31439-7			62-30	1	
159-31439-9			62-29	1	
159-31441		1AMF-1560-217-6157	62-19	1	
159-31441-20		1AMF-1560-216-1632	62	1	
159-31441-50		1AMF-1560-327-2547	62	1	
159-31442		1AMF-1560-327-2548	62-21	1	
159-31442-10		1AMF-1560-327-2549	62-22	1	
159-31443		1AMF-1560-327-2550	62-23	1	
159-31443-10		1AMF-1560-327-2551	62-24	1	
159-31444		1AMF-1560-327-2552	62-25	1	
159-31445		1AMF-1560-327-2553	62-26	1	
159-31446		1AMF-1560-327-2554	62-34	1	
159-31447		1AMF-1560-327-2555	62-35	1	
159-31448		1AMF-1560-327-2556	62-36	1	
159-31449		1AMF-1560-327-2557	62-37	1	
159-31455			64-20	1	
159-31455-10			64	1	
159-31456			64	1	
159-31456-10			64-13	1	
159-31476			59-25	1	
159-31503		1AMF-1560-198-7088	220-1	REF	
159-31503-11		1AMF-1560-326-2740	240-2	1	
159-31504-1		1AMF-1560-198-7089	220-6	REF	
159-31504-2		1AMF-1560-198-7090	220	REF	
159-31506		1AMF-1560-198-7091	220-26	REF	
159-31507		1AMF-1560-241-1899	220-20	REF	
159-31507-27		1AMF-1560-525-9641	236-2	1	
159-315103			236-7	REF	
159-315106		1AMF-1560-035-2405	242-45	2	
			243-36		
159-315106-9			242-46	2	
			243-37		
159-315113-23		1AMF-5340-664-3605	242-48	2	
			243-39		
159-315113-25		1AMF-5340-664-3597	242-49	2	
			243-40		
159-315113-5		1AMF-1560-035-2406	242-47	2	
			243-38		
159-315120		1AMF-1560-649-5664	240-30	4	
			241-27		
159-315121-3		1AMF-5315-297-7079	236-18	19	
			237-13		
			238-13		
			239-13		
			242-13		
			242-34		
			242-56		
			243-20		
			243-25		
			243-47		
159-315122-1			240-9	REF	
159-315122-2			240	REF	
159-315129-1		1AMF-1560-376-6072	240-35	4	
			241-32		
159-315129-2		1AMF-1560-376-6073	240-36	4	
			241-33		
159-315138		1AMF-1560-251-0274	240-5	REF	
159-315144		1AMF-5306-308-3378	240-21	3	
			241-21		
159-315147		1AMF-1560-323-6908	240-19	7	
			240-45		
			241-16		
			241-41		
159-315149			240-22	REF	
159-315149-5		1AMF-1560-328-8714	240-22	3	
			241-19		
159-315153		1AMF-1560-241-1918	240-1	2	
			241-4		
159-315160		1AMF-1560-376-6068	237-18	4	
			238-18		
			239-18		
			252-35	REF	
159-31517-3		1AMF-1560-327-2561	236-5	2	
			245-5		
159-31517-5		1AMF-1560-327-2562	240-6	2	
			241-6		
159-315176-1			237-17	REF	
159-315176-2			237	REF	
159-315176-51		1AMF-1560-192-3930	237-17	3	
			238-17		
159-315176-52		1AMF-1560-192-3931	237	3	
			239-17		
159-315185			53-25	REF	
159-315186		1AMF-1560-193-4905	237-46	2	
159-315188		1AMF-1560-241-1903	237-23	3	
			238-23		
159-315188-11		1AMF-1560-332-9860	237-25	3	
			238-25		
159-315188-7			237-24	3	
			238-24		
159-315191		1AMF-1560-649-5652	237-33	2	
159-315200		1AMF-1560-326-2741	237-27	6	
			238-27		
159-315205		1AMF-1560-525-9642	244	REF	
159-315205-5		1AMF-5307-090-5226	244-18	REF	
159-315206		1AMF-1560-526-2481	244-19	2	
159-315207			244	REF	
159-315207-11			244	2	
159-315213		1AMF-1560-314-9266	244-23	1	
159-315216			244-10	REF	
159-315216-11		1AMF-1560-314-9267	244-10	4	
159-315217-5		1AMF-1560-314-9268	244-13	4	
159-315218-3			65-8	1	
159-315218-4		1AMF-1560-657-8574	65-36	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-315219		1AMF-1560-307-9885	65-29	1	
159-315220-1		1AMF-1560-241-1905	244-1	1	
159-315220-2		1AMF-1560-233-4116	244	1	
159-315221		1AMF-1560-233-4117	244	1	
159-315227-1		1AMF-1560-035-2407	65	1	
159-315227-2		1AMF-1560-376-6076	65	1	
159-315228			237-31	2	
159-315234		1AMF-1560-555-5070	244-10	4	
159-315237-1			237-47	REF	
159-315237-2			237-48	REF	
159-315238		1AMF-1560-247-7043	242-15	REF	
159-315249		1AMF-5315-664-6930	220-11	1	
159-315250		1AMF-5306-313-4943	220-15	1	
159-315251		1AMF-1560-327-2565	220-12	1	
159-315252		1AMF-1560-326-2742	242-53	2	
			243-44		
159-315253			242-10	REF	
159-315257		1AMF-1560-314-9269	220-41	REF	
			236-21		
			245-20		
159-315262		1AMF-1560-245-9852	236	REF	
159-315265		1AMF-1560-244-3703	236-44	2	
			245-44		
159-315282		1AMF-1560-393-9733	57-51	1	
159-315283			242-30	REF	
159-315286		1AMF-1560-376-6078	65	1	
159-31530			220	REF	
159-31532		1AMF-1560-320-5848	236-14	2	
			245-13		
159-31533-1		1AMF-1560-247-7052	57-52	1	
159-31533-2		1AMF-1560-247-7053	57	1	
159-315366-1			238-30	REF	
159-315366-2			238-44	REF	
159-31537		1AMF-1560-320-5849	236-15	2	
			245-17		
159-315371		1AMF-1560-035-2408	244-33	4	
159-315372			244-36	4	
159-315373		1AMF-1560-657-8577	244-34	4	
159-315375			238-65	REF	
159-315376		1AMF-1560-251-9571	244	4	
159-315377			244-35	4	
159-315404-51		1AMF-1560-536-6633	237-57	REF	
159-315404-52		1AMF-1560-525-9643	237-58	REF	
159-315405		1AMF-1560-335-9589	237-16	32	
			238-16		
			239-16		
159-315408		1AMF-1560-310-9961	65-22	2	
			65-37		
159-315409-1		1AMF-1560-210-9768	82-3	1	
159-315409-11		1AMF-1560-657-8586	82	1	
159-315409-12		1AMF-1560-657-8588	82	1	
159-315409-2		1AMF-1560-210-9769	82-4	1	
159-315410-1		1AMF-1560-244-3805	237-60	3	
			238-63		
159-315410-2		1AMF-1560-244-3806	237-61	3	
			239-57		
159-315413			237-32	2	
159-31542			252-34	REF	
159-315420-3		1AMF-1560-657-8591	65-23	2	
159-315420-5		1AMF-1560-657-8592	82-5	2	
159-315420-7		1AMF-1560-525-9644	65-39	2	
			65-46		
159-315421-3			237-30	2	
159-315421-5			242-32	1	
159-315423		1AMF-5340-341-0336	237	4	
			238-6		
			239-6		
159-315424-1		1AMF-1560-188-2321	237-57	3	
			238-61		
159-315424-2		1AMF-1560-244-1146	237-58	3	
			239-55		
159-315425			238	REF	
159-315425-7			237-36	2	
159-31547			225-17	REF	
159-31547-145		1AMF-1560-098-8056	225-29	2	
159-31547-300		1AMF-1560-210-9770	225-17	1	
			248-51	REF	
159-31547-83		1AMF-1560-651-3692	225-38	2	
159-31547-99		1AMF-1560-650-5363	225-18	1	
159-31548		1AMF-1560-327-2570	225-34	1	
159-315503		1AMF-1560-307-2245	242-52	2	
			243-43		
159-315523		1AMF-1560-198-7261	220-8	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-315525		1AMF-1560-327-2571	65-45	1	
159-315526		1AMF-1560-310-9962	65-38	1	
159-315528			242-17	REF	
159-31553		1AMF-1560-244-3700	237-64	3	
			239-59		
159-315531			237-50	REF	
159-315532-1		1AMF-1560-327-2572	240-9	1	
159-315532-2		1AMF-1560-327-2573	240	1	
159-315533			241-1	2	
			242-3		
159-315534			236-6	1	
159-315535			236-7	1	
159-315536		1AMF-5315-141-6870	242-6	3	
			243-8		
159-31554			57	2	
159-315540		1AMF-1560-303-2711	242-30	1	
159-315541		1AMF-1560-303-2712	242-17	1	
159-315541-3			242-21	1	
159-315541-5			242-24	1	
159-315541-7			242-23	1	
159-31555		1AMF-1560-326-2744	225-36	1	
159-315553		1AMF-1560-198-7262	238-65	2	
			240-1		
159-31556-1		1AMF-1560-345-2809	225-32	1	
159-31556-2		1AMF-1560-327-2574	225-33	1	
159-315561		1AMF-5340-332-9862	242-41	2	
			243-32		
159-315562		1AMF-1560-376-6081	242-60	2	
			243-51		
159-315568		1AMF-1560-525-5504	242-14	2	
			243-21		
159-31557		1AMF-1560-327-2575	225-35	1	
159-315570		1AMF-1560-035-2409	242-36	2	
			243-27		
159-315572		1AMF-1560-035-2410	242-35	2	
			243-26		
159-315575			237-49	REF	
159-31558		1AMF-1560-327-2576	225-37	1	
159-31559			225-31	1	
159-315592		1AMF-1560-312-9963	237-2	4	
			238-2		
			239-2		
159-315593		1AMF-1560-312-9964	237-3	4	
			238-3		
			239-3		
159-315601-1		1AMF-5340-244-3800	240-25	2	
			241-22		
159-315601-2		1AMF-1560-525-9646	240	2	
			241		
159-315602-1		1AMF-1560-650-5361	240-46	2	
			241-42		
159-315602-2			240	2	
			241		
159-315603-1		1AMF-1560-199-8292	240	REF	
159-315603-11		1AMF-1560-247-7105	240	2	
			241-15		
159-315603-12		1AMF-1560-245-9006	240	2	
			241		
159-315603-2		1AMF-1560-525-9647	240	REF	
159-315604		1AMF-5340-251-3773	237-5	4	
			238-5		
			239-5		
159-315605		1AMF-1560-312-9965	237-6	2	
159-315606			237-7	2	
159-315606-3		1AMF-1560-312-9966	238-7	2	
			239-7		
159-315607			237-12	2	
159-315607-2			238-12	2	
			239-12		
159-315608-1			237	3	
			238		
159-315608-2			237	3	
			239		
159-315609-1		1AMF-1560-525-9648	240	REF	
159-315609-11		1AMF-1560-251-9581	240	2	
			241-40		
159-315609-12		1AMF-1560-251-9582	240	2	
			241		
159-315609-2		1AMF-1560-525-9649	240	REF	
159-315617-1		1AMF-1560-246-5335	240-41	4	
			241-37		
159-315617-2		1AMF-1560-244-3797	240-42	4	
			241-38		

PART NUMBER	STOCK NO CLASS CODE	STOCK NO FSCM OR PART NO	FIGURE AND INDEX	QTY PER ART	SUPPLY CODE
159-31563		1AMF-1560-244-3701	242-37	2	
			243-28		
159-31564-1		1AMF-1560-247-7042	237-65	3	
			238-66		
159-31564-2		1AMF-1560-247-7044	237-66	3	
			239-60		
159-31565		1AMF-1560-198-7265	224-18	1	
			225	REF	
159-315652-1		1AMF-1560-327-2577	240-8	1	
159-315652-2		1AMF-1560-308-6391	240	1	
159-315653		1AMF-1560-651-3694	243-52	1	
159-315653-3		1AMF-1560-093-3947	242-51	1	
159-315654-1		1AMF-1560-393-9734	240-7	2	
			241-7		
159-315654-2		1AMF-1560-035-2411	240	2	
			241		
159-315658		1AMF-1560-306-3917	240-42	4	
			241-39		
159-315659-1		1AMF-1560-312-9969	240	REF	
159-315659-2		1AMF-1560-312-9970	240	REF	
159-315682		1AMF-1560-525-9650	220	REF	
159-315682-25		1AMF-1560-244-3698	220	1	
159-315684		1AMF-1560-198-7724	220-34	2	
159-315701			244-31	1	
159-315702		1AMF-1560-189-2116	244	1	
159-315702-3			244-32	1	
159-31585		1AMF-1560-516-2528	152-32	3	
			252-33		
159-31589-1		1AMF-1560-244-3793	237-62	3	
			238-64		
159-31589-2		1AMF-1560-244-3794	237-63	3	
			239-58		
159-31601			1	1	
			49-3	REF	
			50	REF	
159-31602			1	1	
			49-4	REF	
			55	REF	
159-31603			1	2	
			51		
159-31604			52-1	1	
			62	REF	
159-31605			52-2	1	
			58	REF	
159-31611			51-31	1	
			83	REF	
159-31612		1AMF-1560-532-1695	64-10	2	
159-31614		1AMF-1560-651-3696	64-11	2	
159-31615		1AMF-1560-651-3697	64	1	
159-31616		1AMF-1560-308-6392	63-49	1	
			131-51	REF	
159-31620			52-4	2	
			53-4		
			56	REF	
159-31626-1			86-8	1	
159-31626-2			86	1	
159-31631-1			87-5	2	
159-31631-2			87	2	
159-31632-1			87-6	2	
159-31632-2			87	2	
159-31640			47-58	REF	
			86-47	2	
159-31642			86-39	1	
159-31643-1			87-7	1	
159-31643-2			87	1	
159-31675			59-47	1	
159-31677		1AMF-1560-327-2579	54-22	1	
159-31678		1AMF-1560-657-8614	54-14	1	
159-31680			63	1	
159-31682			54-5	1	
			103-1		
159-31682-101			54	1	
			103	REF	
159-31682-51			54	1	
			103	REF	
159-31683			52-3	1	
			103-2	REF	
159-31683-101			52	1	
			103	REF	
159-31683-151			52	1	
			103	REF	
159-31683-201			53-3	1	
			103	REF	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO FSCM OR PART NO	FIGURE AND INDEX	QTY PER ART	SUPPLY CODE
159-31683-51			52	1	
			103	REF	
159-31693		1AMF-1560-541-9988	84-38	2	
159-31703			82	1	
159-31703-5			82-40	1	
159-31703-7			82-41	1	
159-31713-1		1AMF-1560-393-9738	52-35	2	
			53-31		
			89	REF	
159-31713-2		1AMF-1560-393-9739	52	2	
			53		
			89	REF	
159-31716		1AMF-1560-312-9971	52-11	2	
			53-11		
159-31716-11		1AMF-1560-613-4801	52-12	2	
			53-12		
159-31716-13		1AMF-1560-547-2459	52-13	2	
			53-13		
159-31717			52	1	
159-31717-51			52	1	
159-31722		1AMF-1560-327-2580	54-1	1	
159-31724		1AMF-1560-613-4802	54-9	1	
159-31725		1AMF-1560-327-2582	54-23	1	
159-31725-5		1AMF-1560-331-9336	54-24	1	
159-31726		1AMF-1560-327-2583	54-6	1	
159-31727		1AMF-1560-327-2584	54-3	1	
159-31728		1AMF-1560-198-7725	54-8	1	
159-31729		1AMF-1560-247-9523	54-4	1	
159-31735			84-24	1	
159-31744		1AMF-1560-563-8624	86-19	1	
159-31747			84-26	1	
159-31748			58-11	1	
159-31749		1AMF-1560-219-4040	58-12	1	
159-31750		1AMF-1560-312-9972	58-19	1	
159-31751		1AMF-1560-657-8619	58-20	1	
159-31752		1AMF-1560-327-2585	58-21	1	
159-31754		1AMF-1560-035-2412	54-13	1	
159-31755		1AMF-1560-657-8620	54-10	1	
159-31763			52-14	1	
159-31775			57	REF	
159-31775-101		1AMF-1560-525-9651	57	REF	
159-31775-151		1AMF-1560-393-9740	57	1	
159-31775-17			57	1	
159-31775-5			57-37	3	
159-31775-7			57-38	3	
159-31776		1AMF-1560-035-2413	51-23	1	
159-31776-3			51-29	1	
159-31776-5			51-28	2	
159-31777		1AMF-1560-393-9741	57-31	2	
159-31778		1AMF-1560-393-9742	51-33	REF	
			57-25	2	
159-31779			51-17	2	
159-31783			63-3	1	
			67-25	REF	
			95-58	REF	
159-31783-101			63	1	
			67	REF	
159-31783-151			63	1	
			67	REF	
159-31783-201			63	1	
			67	REF	
159-31783-251			63	1	
			67	REF	
159-31784			59-2	1	
			67-50	REF	
159-31784-101			60-1	1	
			67	REF	
159-31784-151			60	1	
			67	REF	
159-31784-201			60	1	
			67	REF	
159-31784-251			60	1	
			67	REF	
159-31785			52-5	1	
			67-1	REF	
159-31785-101			52	1	
			67	REF	
159-31785-151			52	2	
			53-5	REF	
			67	REF	
159-31785-51			52	1	
			67	REF	
159-31786			52-6	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-31786			67-11	REF	
159-31786-50			53-6	1	
			67	REF	
159-31791		1AMF-1560-310-9963	65-21	1	
159-31792			65-14	1	
159-31793		1AMF-1560-310-9964	65-15	2	
159-31795		1AMF-1560-327-2587	62-20	1	
159-31795-20		1AMF-1560-327-2586	62	1	
159-31795-50		1AMF-1560-327-2588	62	1	
159-31801			50-4	NP	
			73		
159-31802			50-5	NP	
			69		
159-31803			62-2	NP	
			74		
159-31804			70-18	1	
			72	REF	
159-31804-101			71-19	1	
			72	REF	
159-31804-11		1AMF-1560-327-2589	72-7	2	
159-31804-13		1AMF-1560-327-2590	72-9	2	
159-31804-15		1AMF-1560-327-2591	72-6	2	
159-31804-21		1AMF-1560-327-2592	72-1	2	
159-31804-50			70	1	
			72	REF	
159-31805			70-51	1	
			72	REF	
159-31805-101			71-51	1	
			72	REF	
159-31805-31		1AMF-1560-327-2593	72-17	1	
159-31805-35			72-18	REF	
159-31806		1AMF-1560-198-7266	70-13	1	
159-31807		1AMF-1560-525-9652	70	1	
159-31807-25			70-47	REF	
159-31808			70-52	REF	
			72-2	1	
159-31809		1AMF-1560-030-4893	70-10A	1	
159-31810			70-53	REF	
			72-16	1	
159-318106			68	1	
159-318107			59-50	2	
			60-29		
159-31811		1AMF-1560-198-7267	50-37	1	
			70	REF	
159-31811-11		1AMF-1560-327-2594	70-11	2	
159-31811-3			70-12	12	
159-31811-5		1AMF-1560-327-2595	70-8	AR	
159-31811-50		1AMF-1560-327-2596	50	1	
			70	REF	
159-31811-7		1AMF-1560-327-2597	70-9	1	
159-31811-9		1AMF-1560-327-2598	70-7	1	
159-318112		1AMF-1560-216-1633	84	1	
159-318112-100			84	1	
159-318112-11		1AMF-1560-563-7639	84-30	1	
159-318112-19		1AMF-1560-310-9965	84	1	
159-318112-7		1AMF-1560-327-2599	84-29	1	
159-318112-9			84-31	1	
159-318114-1			68-10	1	
159-318114-2			68	1	
159-318116		1AMF-5315-376-6083	50-39	1	
159-318117		1AMF-1560-332-0918	50-40	1	
159-31812		1AMF-1560-199-8294	50-38	1	
			70	REF	
159-31812-11		1AMF-1560-327-2601	70-32	1	
159-31812-25		1AMF-1560-327-2602	50	1	
			70	REF	
159-31812-3		1AMF-1560-327-2603	70-24	AR	
159-31812-5		1AMF-1560-327-2604	70-23	1	
159-31812-50		1AMF-1560-327-2605	50	1	
			70	REF	
159-31812-7		1AMF-1560-345-2772	70-25	1	
159-31812-9		1AMF-1560-245-9382	70-26	26	
159-318123		1AMF-1560-244-3798	72-26	1	
159-318124		1AMF-1560-376-6085	72-28	1	
159-31813		1AMF-1560-198-7268	73-45	1	
159-31813-7		1AMF-1560-198-7269	73-44	1	
159-318135		1AMF-1560-326-2745	72-18	2	
159-31814		1AMF-1560-198-7270	73-46	2	
159-318146		1AMF-1560-335-7756	74	1	
159-318146-5			74	1	
159-318147		1AMF-1560-035-2414	75-33	1	
159-31815		1AMF-1560-198-7271	73-47	2	
159-318150		1AMF-1560-525-9653	74-42	1	
159-318150		1AMF-1560-525-9653	78-66	REF	
159-318150-5			74	1	
159-318151			75-35	1	
159-318152		1AMF-1560-244-3795	78-57	1	
159-318154		1AMF-1560-244-3796	78-53	1	
159-318154-5			78	1	
159-318155		1AMF-1560-376-6086	77-17	1	
159-318157		1AMF-1560-342-1688	78-62	1	
159-318158		1AMF-1560-328-8726	75-43	1	
159-31816		1AMF-1560-198-7273	84-23	1	
159-318161			77-10	2	
159-318162			74-3	1	
			77	REF	
159-318163-1			68-15	REF	
159-318163-2			68	REF	
159-318164			77-15		
			77-6	3	
			112-15		
159-318165		1AMF-1560-376-6088	75-40	1	
159-318168		1AMF-1560-376-6089	75-41	1	
159-318169		1AMF-1560-247-7054	75-37	1	
159-31817		1AMF-1560-198-7274	70-39	1	
159-318171		1AMF-1560-187-8393	74-4	1	
			75-48	REF	
159-318172		1AMF-5340-664-7239	74-9	1	
159-318175		1AMF-1560-657-8624	77-8	1	
159-318175-3			77	1	
159-318176		1AMF-1560-657-8626	64-41	2	
159-318177			69-22	REF	
			83	1	
159-318178			69-21	REF	
			84	1	
159-318180		1AMF-1560-245-9383	69-15	1	
159-318181		1AMF-1560-245-9388	69-9	1	
159-318184		1AMF-1560-393-9745	75-38	1	
159-318185			75-34	1	
159-318186		1AMF-5315-664-1893	75-39	1	
159-318187			75-36	1	
159-318189		1AMF-1560-244-3791	75-44	1	
159-318195		1AMF-1560-247-7045	69-4	1	
			78-67	REF	
159-318196		1AMF-1560-245-9389	69-12	1	
159-318208-3		1AMF-1560-187-8394	52-32	2	
			53-29		
159-318208-5		1AMF-1560-187-8395	82-31	1	
159-318213-1			82	1	
159-318213-2			82	1	
159-318216-1		1AMF-1560-376-6092	82-1	1	
159-318216-2		1AMF-1560-376-6093	82-2	1	
159-318219		1AMF-1560-393-9751	80-33	1	
159-318221			82	REF	
159-318221-101			82	1	
159-318221-51			82	1	
159-318232-3		1AMF-1560-332-3055	70-30	2	
			71-31		
159-318232-5		1AMF-1560-332-3056	70-31	2	
			71-32		
159-318240		1AMF-1560-030-4894	70	1	
159-318245			153-59	2	
			154-58		
159-31825		1AMF-5340-200-4731	72-36	1	
159-31826-1		1AMF-1560-376-6095	68-6	1	
159-31826-2		1AMF-1560-244-3789	68	1	
159-31827		1AMF-1560-035-2415	79-54	REF	
			133-3	1	
159-31828		1AMF-1560-244-3790	133-8	1	
159-31829-3		1AMF-5315-664-8637	79-28	2	
159-31829-5		1AMF-5315-664-8636	73	2	
159-31829-7		1AMF-5315-664-8638	73	8	
			73-22		
159-31829-9		1AMF-5315-664-8642	73	2	
159-31830		1AMF-1560-657-8627	79-56	REF	
			84-6	1	
159-31831			79-57	REF	
			83-47	1	
159-318312			72-30	1	
159-318319			72-21	1	
159-318320		1AMF-1560-376-6097	72-25	1	
159-318322			72-28	REF	
159-318323			72-26	REF	
159-31833-10		1AMF-1560-185-5082	79-18	1	
159-31833-5		1AMF-1560-213-4977	79	1	
159-31834		1AMF-1560-187-7249	79-15	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-31835-7		1AMF-5315-664-6740	73	1	
159-31836		1AMF-1560-393-9769	79-23	4	
159-31840			84	1	
159-318401		1AMF-1560-251-5225	75-16	1	
159-318401-3			75-21	1	
159-318405		1AMF-1560-251-5226	74-21	1	
159-318406		1AMF-1560-251-5223	75-9	2	
			77	REF	
159-31841-13		1AMF-1560-187-7250	73-4	32	
159-31841-15		1AMF-1560-185-1932	79-11	4	
159-31841-3			73-4	REF	
159-318410		1AMF-1560-327-2608	77-14	1	
159-318411			75-26	1	
159-318412			75-32	1	
159-318413		1AMF-1560-326-2748	75-31	1	
159-318414			75-27	1	
159-318415		1AMF-5306-292-2394	75-11	1	
159-318418		1AMF-1560-304-9742	75-19	1	
159-31843-1			73-21	1	
159-31843-2			73	1	
159-31844		1AMF-1560-250-9089	73-11	2	
159-318455		1AMF-1560-251-5224	74-35	1	
159-31846		1AMF-1560-393-9770	79-26	2	
159-318462		1AMF-1560-197-9089	74-13	1	
			75-47	REF	
159-318462-5			74	1	
159-318463		1AMF-1560-197-9088	74-27	1	
159-318463-5			74	1	
159-318465-3			78-17	2	
159-318468			78	1	
159-318468-11			78	1	
159-318468-13			78	1	
159-318468-3			78-13	1	
159-318468-5			78-25	1	
159-318468-7			78	1	
159-31847			79-27	1	
159-318471			78-37	1	
159-318472			78-18	1	
159-318473			74-38	1	
159-318474-3		1AMF-1560-244-9583	64-40	1	
			75-49	REF	
159-318475			69-22	REF	
			83	1	
159-318479-1		1AMF-1560-376-6101	66-15	1	
159-318479-2		1AMF-1560-327-2610	68	1	
159-31848-1			73	REF	
159-31848-2			73	REF	
159-31848-21		1AMF-1560-035-2416	73	1	
159-31848-22			73	1	
159-318481			77	1	
159-318481-3			77	1	
159-318482		1AMF-1560-185-1933	74	1	
			77	REF	
159-318488			75-30	2	
159-318489		1AMF-1560-199-4364	75	1	
159-318490		1AMF-1560-250-9091	79-33	1	
159-318491			79-32	1	
159-318492			79-31	1	
159-318493		1AMF-1560-323-7001	79-29	2	
159-318495-3		1AMF-1560-197-9900	79-7	1	
159-318495-5		1AMF-1560-197-9901	79-39	1	
159-31850		1AMF-1560-334-6047	73-3	6	
159-31851		1AMF-1560-198-7275	80-1	1	
159-31851-11		1AMF-1560-327-2611	80-18	2	
159-31851-13		1AMF-1560-314-9276	80-31	1	
159-31851-14		1AMF-1560-651-3701	80-32	1	
159-31851-15		1AMF-1560-327-2612	80-39	1	
159-31851-16		1AMF-1560-327-2613	80	1	
159-31851-17		1AMF-1560-657-8628	80-40	1	
159-31851-19		1AMF-1560-327-2614	80-30	1	
159-31851-20		1AMF-1560-327-2615	80	1	
159-31851-21		1AMF-1560-327-2616	80-19	2	
159-31851-3		1AMF-1560-345-2774	80-34	2	
159-31851-5		1AMF-1560-327-2617	80-38	2	
159-31851-7		1AMF-1560-327-2618	80-37	1	
159-31851-8		1AMF-1560-327-2619	80	1	
159-31851-9		1AMF-1560-327-2620	80-35	2	
159-31852			80-44	1	
			82	REF	
159-31853		1AMF-1560-393-9771	82-39	1	
159-31854			82-29	REF	
159-31854-101			82-29	REF	
159-31854-201		1AMF-1560-314-9277	82-29	REF	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-31854-251			82-29	1	
159-31854-5		1AMF-1560-393-9772	82-30	1	
159-31855		1AMF-1560-188-7514	80-43	1	
159-31856-1		1AMF-1560-188-7515	80-42	1	
159-31856-2		1AMF-1560-188-7516	80	1	
159-31857-1			82	1	
159-31857-2			82	1	
159-31858			52-30	1	
159-31858-51		1AMF-1560-336-1226	52	1	
159-31858-7		1AMF-1560-246-0801	52-31	1	
159-31858-9		1AMF-1560-255-0511	52	1	
159-31859-1		1AMF-1560-332-0919	80	1	
159-31859-2		1AMF-1560-332-0920	80-16	1	
159-31861-11		1AMF-5310-033-5203	81-28	5	
159-31861-13		1AMF-5310-376-3983	81-43	2	
159-31861-15		1AMF-5310-376-6105	81	1	
159-31861-3		1AMF-5310-477-9605	80-28	11	
			81-29		
159-31861-5		1AMF-5310-477-9606	80-36	4	
			81-13		
159-31861-7		1AMF-5310-477-9607	80-17	6	
159-31861-9		1AMF-5310-185-4179	80-29	40	
			81-30		
159-31862		1AMF-1560-393-9773	82-23	1	
159-31864		1AMF-1560-327-2621	72-38	1	
159-31865		1AMF-1560-250-9092	70-19	2	
			71-20		
159-31866-3		1AMF-1560-308-6393	73-18	4	
			79-16		
159-31866-5		1AMF-1560-246-1652	73-19	1	
159-31867			73-2	6	
159-31868-5			73-24	2	
159-31869			73-32	2	
159-31870		1AMF-1560-199-4365	76-7	1	
159-31871		1AMF-1560-188-7517	73-15	2	
159-31872-1		1AMF-1560-188-7518	73-14	1	
159-31872-2		1AMF-1560-188-7520	73	1	
159-31873		1AMF-1560-326-2750	75-22	1	
159-31874-1			68-9	1	
159-31874-2			68	1	
159-31875			79	NP	
			83-5		
159-31876			50	REF	
159-31876-1			72-3	1	
159-31876-2			72-4	1	
159-31877			50-42	REF	
159-31877-1		1AMF-1560-376-6111	72-14	1	
159-31877-2		1AMF-1560-376-6112	72	1	
159-31878			50	REF	
159-31878-1		1AMF-1560-376-6113	72-19	1	
159-31878-2		1AMF-1560-376-6114	72	1	
159-31879		1AMF-1560-035-2417	50-43	REF	
			72-37	1	
159-31880		1AMF-1560-199-4366	76-8	2	
159-31881		1AMF-1560-199-4367	76-9	2	
159-31882		1AMF-1560-199-4368	76-6	1	
159-31883		1AMF-1560-199-4369	76-22	REF	
			79-53	1	
159-31884		1AMF-1560-525-9655	79-52	1	
159-31885-5		1AMF-1560-345-6388	73-25	2	
159-31886		1AMF-1560-250-9093	73-9	2	
159-31887-1			68-15	REF	
159-31887-2			68	REF	
159-31888-1			68-15	REF	
159-31888-2			68	REF	
159-31890-3		1AMF-1560-307-2246	79-40	1	
159-31890-5		1AMF-1560-308-6394	79-6	1	
159-31893-3		1AMF-1560-524-2220	73	2	
159-31893-5		1AMF-1560-506-6270	73-20	2	
159-31894		1AMF-1560-393-9774	79-10	2	
			79-45		
159-31895		1AMF-1560-188-7521	73-16	2	
159-31896-1		1AMF-1560-199-8295	73-17	1	
159-31896-2		1AMF-1560-199-8296	73	1	
159-31901		1AMF-1560-222-5470	224-1	1	
159-31902-3			224	2	
159-31904		1AMF-1560-222-5471	65-25	2	
			65-32		
159-31907-3		1AMF-1560-185-6226	50-21	REF	
159-31907-7		1AMF-1560-251-3622	50-21	2	
159-31916		1AMF-1560-185-6223	50-11	REF	
159-31916-3		1AMF-1560-251-3623	50-11	1	
159-31950		1AMF-1560-662-5424	56-5	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-33013-1			1-4	NP	
			13		
			14		
			198		
159-33013-2			1	NP	
			13		
			14		
			198		
159-33015			3-42	REF	
			4-33	NP	
			198-54	REF	
159-33016			62-40	NP	
			198-55	REF	
			209		
159-33018			51-6		
			198-56		
			210		
159-33019			3-26		
			198-57	REF	
			207		
159-33101-11			2	1	
			198-53		
			200	REF	
159-33101-3			2	2	
			198		
			200	REF	
159-33103			198-35	3	
			201	REF	
			211-34		
159-33103-10			198	2	
			201	REF	
			211		
159-33104-5	1AMF-1560-222-5472		201-6	3	
159-33105			201-9	REF	
159-33106	1AMF-1560-222-5473		201-24	3	
159-33107-3	1AMF-1560-323-7008		201-33	3	
159-33108	1AMF-1560-376-6118		201-29	3	
159-33110	1AMF-5305-207-4269		201-27	3	
159-33111-3	1AMF-5306-038-1354		201-3	3	
159-33111-5	1AMF-5306-038-1355		198-34	3	
			211-33		
159-33112-1			201-31	REF	
159-33112-2			201-32	REF	
159-33112-7	1AMF-1560-323-7024		201-31	3	
159-33112-8	1AMF-1560-323-7033		201-32	3	
159-33113	1AMF-1560-662-8225		198-50	2	
159-33114	1AMF-1560-613-4804		201-5	3	
159-33115	1AMF-1560-234-2934		198-45	4	
159-33116	1AMF-5306-477-9610		198-38	4	
159-33117	1AMF-5310-209-2669		198-37	4	
159-33118	1AMF-1560-198-6922		216-21	2	
159-33119	1AMF-1560-327-2622		198-47	4	
159-33120-3	1AMF-1560-198-6923		216-20	2	
159-33121	1AMF-1560-526-3930		201-30	3	
159-33122-3	1AMF-1560-188-2434		211-30	1	
159-33122-5	1AMF-1560-188-2435		198-43	2	
159-33123-1			198-48	REF	
159-33123-2			198	REF	
159-33124-1	1AMF-1560-035-2418		198-48	1	
			216	REF	
159-33124-2	1AMF-1560-035-2419		198	1	
			216	REF	
159-33125-5	1AMF-1560-245-9964		20-9	4	
			21-9		
			22-3		
			23-3		
159-33125-6	1AMF-1560-245-9963		20	4	
			21		
			22		
			23		
159-33126-5	1AMF-1560-244-3699		22-3	2	
			23-3		
159-33126-6	1AMF-1560-247-3170		22	2	
			23		
159-33127	1AMF-1560-244-9584		20-16	8	
			21-16		
			22-11		
			23-11		
159-33128	1AMF-1560-327-2623		20-14	8	
			21-14		
			22-9		
			23-9		
159-33130	1AMF-1560-376-6127		20-15	8	
159-33130	1AMF-1560-376-6127		21-15		
			22-10		
			23-10		
159-33131-3	1AMF-1560-327-2625		20-22	2	
			21-22		
159-33131-4	1AMF-1560-247-3169		20	2	
			21		
159-33132-5	1AMF-1560-251-3624		15-28	4	
			16-28		
159-33135-5			20-23	4	
			21-23		
159-33136	1AMF-1560-251-3625		20-30	4	
			21-30		
159-33137	1AMF-1560-327-2626		20-29	4	
			21-29		
159-33138	1AMF-1560-251-3626		20-28	4	
			21-28		
159-33139	1AMF-1560-198-6924		201-12	REF	
159-33139-10	1AMF-1560-189-2117		201-12	3	
159-33140	1AMF-1560-198-6925		201-16	5	
			205-15		
159-33141-3	1AMF-1560-393-9775		201-23	3	
159-33141-5	1AMF-1560-393-9776		201	3	
159-33150	1AMF-1560-198-6926		198-31	3	
			211-16		
159-33301-1	1AMF-1560-198-6927		199-18	1	
159-33301-19			199	1	
159-33301-2	1AMF-1560-198-6928		199	1	
159-33301-20			199	1	
159-33302-1	1AMF-1560-198-6929		199-24	1	
159-33302-2	1AMF-1560-198-6930		199	1	
159-33302-3	1AMF-1560-198-6931		199	1	
159-33302-4	1AMF-1560-198-6932		199	1	
159-33303	1AMF-1560-198-7726		199	2	
159-33304	1AMF-1560-198-7727		199-3	2	
159-33305	1AMF-1560-198-6933		199-26	2	
159-33306	1AMF-1560-376-6141		199-6	4	
159-33308	1AMF-1560-198-6934		51-22	1	
			199-28		
159-33311	1AMF-1560-198-6935		199-12	2	
159-33311-3			199-17	2	
159-33311-5			199-14	2	
159-33311-7			199-13	2	
159-33312	1AMF-1560-247-3172		202-14	2	
159-33313-3	1AMF-5310-596-0085		202-16	2	
159-33313-5	1AMF-5310-596-0084		202-12	2	
159-33315	1AMF-1560-649-5654		199-44	2	
159-33316			199	2	
159-33321-1	1AMF-1560-187-6222		200-6	1	
159-33321-2	1AMF-1560-187-6223		200	1	
159-33323	1AMF-1560-187-6224		200-4	2	
159-33324	1AMF-1560-187-6225		200-23	2	
159-33325-3	1AMF-1560-331-9340		200-24	2	
159-33325-5	1AMF-1560-331-9341		200-25	2	
159-33327	1AMF-1560-247-3173		200-15	4	
159-33328-3	1AMF-1560-187-6226		200-40	4	
159-33329	1AMF-5310-376-6147		200-35	5	
			213-28		
159-33330			200-18	6	
159-33334	1AMF-1560-327-2631		200-26	2	
159-33335	1AMF-1560-327-2632		200-27	2	
159-33336-1	1AMF-1560-187-6227		199-60	1	
159-33336-2	1AMF-1560-187-6228		199	1	
159-33336-51			199	1	
159-33336-52			199	1	
159-33342-1	1AMF-5340-251-3774		15-23	2	
			16-23		
159-33342-2	1AMF-5340-251-5786		15	2	
			16		
159-33343	1AMF-5340-187-6236		199-62	2	
159-33347-1	1AMF-1560-185-1934		199-36	1	
159-33347-2	1AMF-1560-185-1935		199	1	
159-33347-3			199-45	1	
159-33348	1AMF-1560-187-6237		199-37	1	
159-33348-3			199	1	
159-33349	1AMF-1560-251-3767		199-43	2	
159-33350-1	1AMF-1560-187-6238		199-55	1	
159-33350-2	1AMF-1560-187-6239		199	1	
159-33351-5	1AMF-1560-241-1897		199-51	4	
159-33352-1			20	1	
			21		
159-33352-2			20	1	
			21		

PART NUMBER	STOCK NO CLASS CODE	STOCK NO FEDERAL PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-33353-3			20	2	
			21		
159-33353-4			20	2	
			21		
159-33353-5			20	2	
			21		
159-33353-6			20	2	
			21		
159-33402		1AMF-1560-323-7034	209-16	1	
159-33403-3		1AMF-1560-244-3696	210-15	1	
159-33405		1AMF-1560-244-3697	209-17	1	
159-33406		1AMF-1560-323-7040	210-19	1	
159-33407		1AMF-1560-245-9058	210-29	1	
159-33408		1AMF-1560-662-7754	209-8	1	
159-33409		1AMF-1560-210-9776	30-45	REF	
			31-45	REF	
			209-12	1	
159-33410			209-5	1	
159-33411-3		1AMF-1560-376-6157	209-11	1	
159-33412		1AMF-1560-035-2420	210-16	1	
159-33414		1AMF-1560-301-7981	210-11	1	
159-33415		1AMF-1560-233-4126	209-28	2	
			209-68	REF	
			210-4		
159-33417		1AMF-1560-035-2421	206-41	1	
159-33419		1AMF-1560-030-4895	209-35	1	
159-33420		1AMF-1560-376-6158	209-40	3	
			209-61		
159-33422-3		1AMF-1560-314-9278	209-39	2	
			209-63		
159-33422-5			209-28	1	
159-33422-7		1AMF-1560-247-4671	210-33	1	
159-33425		1AMF-1560-327-2633	209-42	2	
			209-64		
159-33428			209-56	1	
159-33429		1AMF-1560-035-2422	209-62	1	
159-33432			210-28	1	
159-33433		1AMF-1560-035-2423	210	1	
159-33434-3		1AMF-5315-664-6734	209-21	2	
			210-21		
159-33434-5		1AMF-5315-664-6738	209-22	2	
			210-20		
159-33437		1AMF-1560-233-4127	209-47	1	
159-33438		1AMF-1560-245-9059	209-50	2	
159-33441-11		1AMF-1560-233-4128	208-19	1	
159-33441-13		1AMF-1560-233-4130	206-4	1	
159-33444-10		1AMF-1560-674-3894	206-20	1	
159-33444-3		1AMF-1560-697-9804	206-47	1	
159-33446		1AMF-1560-245-8991	206-29	1	
159-33447		1AMF-1560-245-8992	206-28	1	
159-33448		1AMF-1560-245-8993	206-25	1	
159-33449		1AMF-1560-251-4679	206-26	1	
159-33451		1AMF-1560-233-4129	198-3	1	
159-33453		1AMF-5315-329-9498	206-32	1	
159-33454		1AMF-1560-310-1281	206-10	2	
159-33461		1AMF-1560-247-3174	206-27	1	
159-33462-3			198-13	1	
159-33462-4		1AMF-1560-657-8634	198	1	
159-33464-1		1AMF-1560-198-7728	198	1	
159-33464-2		1AMF-1560-198-7729	198	1	
159-33465		1AMF-1560-525-9660	198-15	2	
159-33466		1AMF-5315-664-6736	206-35	1	
159-33467			15	4	
159-33469		1AMF-1560-247-3175	206-46	1	
159-33470		1AMF-1560-246-1926	206-14	1	
159-33472		1AMF-1560-245-9007	203-13	1	
159-33473-1			15	1	
159-33473-2			15	1	
159-33475			203-1	REF	
159-33475-3			203-1	1	
159-33476		1AMF-1560-245-9008	203-11	1	
159-33477		1AMF-1560-697-9805	203-10	REF	
159-33481		1AMF-1560-035-2424	203-43	2	
159-33482-1		1AMF-1560-245-9009	203-26	1	
159-33482-2		1AMF-1560-251-5221	203	1	
159-33483		1AMF-1560-251-5222	203-42	2	
159-33484		1AMF-1560-251-5219	203-39	2	
159-33485-11			203	1	
159-33485-13		1AMF-1560-651-3704	203	1	
159-33485-3		1AMF-1560-198-7730	203-16	1	
159-33485-5		1AMF-1560-198-7731	203	1	
159-33486		1AMF-1560-251-5220	203-22	4	
159-33490		1AMF-1560-330-6860	203-44	6	
159-33491		1AMF-1560-035-2425	203-40	2	
159-33492-1		1AMF-1560-251-5217	203-31	1	
159-33492-2		1AMF-1560-251-5218	203	1	
159-33494		1AMF-1560-613-0561	198-2	1	
159-33500-1		1AMF-1560-650-5228	15	2	
			16		
159-33500-2		1AMF-1560-650-5229	15	2	
			16		
159-33505-1			15-33	2	
			16		
159-33505-2			15	2	
			16-33		
159-34031			1-6	NP	
			51-3		
			211		
159-34101			211	1	
			213	REF	
159-34101-10			211-72	1	
			213	REF	
159-34101-30			211	1	
			213	REF	
159-34102-10			213-53	REF	
159-34113		1AMF-1560-388-8495	213-35	1	
159-34114		1AMF-5315-664-6737	213-34	1	
159-34115		1AMF-1560-210-9777	211-55	2	
159-34118		1AMF-1560-035-2426	211-56	1	
159-34119		1AMF-5310-208-4738	211-51	1	
159-34120-3		1AMF-1560-035-2427	211-53	1	
159-34121		1AMF-5306-038-1356	211-36	1	
159-34122		1AMF-1560-327-2546	211-54	1	
159-34125-3		1AMF-1560-035-2428	57-9	1	
159-34125-4		1AMF-1560-304-3243	57	1	
159-34125-5		1AMF-1560-314-9279	57-1	1	
159-34125-6		1AMF-1560-035-2429	57	1	
159-34126		1AMF-1560-376-6181	57-8	2	
159-34127		1AMF-1560-368-2715	57-6	2	
159-34128-3			56-25	1	
159-34128-5		1AMF-1560-388-8496	56-17	1	
159-34129		1AMF-1560-376-6182	56-24	2	
			57-23		
159-34130		1AMF-1560-332-3128	56-22	2	
			57-21		
159-34131		1AMF-1560-251-5285	56-23	2	
			57-22		
159-34132-3		1AMF-1560-035-2430	57-24	1	
159-34132-5		1AMF-1560-193-4907	57-16	1	
159-34134		1AMF-1560-376-6184	57-7	AR	
159-34139-3		1AMF-1560-376-6185	56-33	1	
159-34140		1AMF-5306-477-9618	211-39	1	
159-34141		1AMF-5306-477-9619	211-59	1	
159-34150		1AMF-1560-198-7732	211-64	1	
159-34160		1AMF-1560-035-2432	211-62	1	
159-34161		1AMF-1560-662-8003	211-61	2	
159-34162		1AMF-1560-327-2637	211-63	1	
159-34201			124-37	REF	
159-34201-10		1AMF-1560-657-8635	124-37	REF	
159-34201-20			124-37	REF	
159-34223		1AMF-1560-525-3749	214-41	1	
159-34224		1AMF-1560-030-4896	214-22	1	
159-34225			118-56	REF	
159-34225-10		1AMF-1560-035-2433	118-56	1	
			219	REF	
159-34226-2		1AMF-1560-525-9665	219-30	1	
159-34226-5		1AMF-1560-525-9666	219-29	1	
159-34228		1AMF-1560-251-3772	219-14	1	
159-34229		1AMF-1560-035-2434	219-34	1	
159-34230		1AMF-1560-251-3771	118-71	REF	
			219-1	1	
159-34232		1AMF-1560-035-2435	219-20	1	
159-34236		1AMF-1560-035-2436	219-25	1	
159-34241			213-27	2	
159-34301		1AMF-1560-187-4976	212-30	1	
159-34301-10		1AMF-1560-035-2437	212	1	
159-34304			212-17	REF	
159-34304-10		1AMF-1560-376-6193	212-17	3	
159-34305-1		1AMF-1560-525-9667	212-18	REF	
159-34305-15		1AMF-5340-664-3592	212-20	1	
159-34305-2		1AMF-1560-187-4978	212	1	
159-34305-21		1AMF-1560-327-2642	212-21	1	
159-34305-25		1AMF-1560-185-4175	212-18	1	
159-34306		1AMF-1560-327-2643	212-25	2	
159-34307		1AMF-5340-246-0798	57-30	2	
159-34308			212-49	REF	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-34309-1		1AMF-1560-327-2644	56-14	1	
159-34309-2		1AMF-1560-327-2645	56	1	
159-34310-3		1AMF-1560-323-7054	212-14	2	
159-34311			212-17	REF	
159-34312-5		1AMF-1560-251-3770	212-7	2	
159-34316		1AMF-5306-049-9997	212-5	2	
159-34317		1AMF-1560-327-2646	212-12	2	
159-34318		1AMF-1560-187-4979	212-11	2	
159-34321		1AMF-1560-332-0923	212-26	2	
159-34322		1AMF-1560-303-2716	212-26A	2	
159-34323-5		1AMF-5315-329-9706	212-19	2	
159-34323-7		1AMF-5315-329-9717	199-61	2	
159-34324		1AMF-5340-328-8736	212-31	1	
159-34325		1AMF-1560-187-4980	213-46	1	
159-34326		1AMF-1560-327-2647	213-50	1	
159-34327		1AMF-1560-574-3433	213-47	1	
159-34328		1AMF-1560-327-2649	213-48	1	
159-34329		1AMF-1560-193-4908	213-40	1	
159-34330		1AMF-5340-597-8623	213-26	1	
159-34331		1AMF-1560-323-7075	212-35	1	
159-34332		1AMF-1560-187-4981	212-34	1	
159-34333		1AMF-1560-035-2438	212-49	1	
159-34401		1AMF-1560-187-4982	211-26	1	
			217	REF	
159-34402		1AMF-1560-187-4983	208-5	1	
159-34402-5			208	1	
159-34403		1AMF-1560-251-3769	208-15	1	
159-34404		1AMF-1560-035-2439	217-22	1	
159-34405-5		1AMF-1560-187-4984	217-14	1	
159-34406		1AMF-1650-516-1049	217-17	1	
159-34407		1AMF-1560-301-7982	217-13	1	
159-34408		1AMF-1560-327-2650	217-7	1	
159-34409		1AMF-1560-251-5566	217-23	1	
159-34410-11			216	1	
159-34410-13			216	2	
159-34410-3		1AMF-1560-187-4985	211-11	1	
			216	REF	
159-34410-5		1AMF-1560-187-4986	198-26	2	
			216	REF	
159-34411		1AMF-1560-187-4987	217-12	1	
159-34412		1AMF-1560-251-5567	216-6	3	
159-34413		1AMF-1560-251-5564	216-8	3	
159-34415		1AMF-1560-517-6345	198-23	3	
			211-7		
159-34416		1AMF-5330-327-2651	217-25	1	
159-34417		1AMF-1560-187-4988	211-2	1	
159-34417-10		1AMF-1560-386-7537	211	1	
159-34421		1AMF-1560-662-7654	217-15	1	
159-34422		1AMF-1560-376-6205	208-8	1	
159-34423			217-21	1	
159-34424		1AMF-1560-326-2754	208-9	1	
159-34425		1AMF-5315-525-1284	211-1	2	
159-34426		1AMF-1560-327-2652	208-12	1	
159-34427		1AMF-1560-244-4738	208-13	1	
159-34428		1AMF-1560-244-4739	208-14	1	
159-34429		1AMF-1560-327-2653	211-9	1	
159-34430		1AMF-1560-477-9620	211-10	2	
159-34500		1AMF-1630-244-1453	86-25	1	
159-34501		1AMF-1560-612-6352	86	REF	
159-34501-10		1AMF-1630-187-6208	86	1	
159-40040			1-7	NP	
			50-1		
			220		
			221-1		
159-40901		1AMF-1560-477-9621	221	1	
159-40901-10		1AMF-1560-525-9670	221	1	
159-42027			232-20	1	
159-42031			51	NP	
			90		
159-42040			220	NP	
			223		
159-42041			223	REF	
159-42043			223	REF	
159-42051			223-10	REF	
159-42052		1AMF-1560-035-2442	56-8	1	
159-42055		1AMF-1560-326-2755	224-14	1	
159-42056		1AMF-1560-393-9777	224-22	1	
159-42059			223	REF	
159-42061		1AMF-1560-244-4740	223-6	6	
159-42062		1AMF-1560-219-4380	223-7	6	
159-42063-1			223-5	REF	
159-42063-11		1AMF-1560-326-2756	223-5	6	
159-42063-12		1AMF-1560-210-9778	223	6	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-42063-2			223	REF	
159-42064		1AMF-1560-386-7538	223-9	6	
159-42066			223-10	REF	
159-42074		1AMB-1560-526-2821	227-22	1	
159-42088			223-15	1	
159-42089			223-16	1	
159-42131			51	NP	
			90		
159-42138-23		1AMF-1560-525-9672	223-29	REF	
159-42138-25		1AMF-1560-386-7532	223-28	1	
159-42138-3			223-29	REF	
159-42138-33		1AMF-1560-251-2223	223-29	1	
159-42138-5			223-28	REF	
159-42139		1AMF-1560-187-8397	228	1	
159-42140-3		1AMF-1560-694-1993	228-5	2	
159-42141		1AMF-1560-197-7517	223-11	REF	
159-42142		1AMF-1560-649-5655	223-18	1	
159-42144		1AMF-1560-328-3265	223-14	1	
159-42145			225-4	REF	
159-42145-11		1AMF-1660-525-9674	225-4	REF	
159-42145-13		1AMF-2915-674-8620	225-4	1	
			228	REF	
159-42146			228-55	1	
159-42146-11			228	1	
159-42146-13			228	1	
159-42147		1AMF-2915-304-9743	228-43	1	
159-42148		1AMF-2915-304-9744	228-46	1	
159-42149			228-5	REF	
159-42150-5		1AMF-1560-251-5286	228-15	2	
159-42152		1AMF-2915-197-7514	228-19	2	
159-42154		1AMF-1560-251-5215	223-32	1	
159-42155		1AMF-1560-251-5216	223-31	1	
159-42157		1AMF-1560-327-2654	224-3	1	
159-42158		1AMF-1560-187-8398	228-42	4	
159-42159		1AMF-1560-327-2655	228-41	4	
159-42160-3		1AMF-1560-197-9090	228-40	1	
159-42160-5		1AMF-1560-197-9091	228-39	1	
159-42161		1AMF-5310-596-0070	228-38	1	
159-42165		1AMF-2945-651-9219	224-2	REF	
159-42166		1AMF-1560-197-9092	223-11	1	
159-42169		1AMF-1560-657-8647	225-5	1	
159-42169-17		1AMF-1560-327-2656	225-8	4	
159-42169-19		1AMF-1560-327-2657	225-7	1	
159-42169-25			225-6	1	
159-42170		1AMF-1560-244-6424	240-3	2	
			241-3		
159-42177-1		1AMF-2915-658-1940	228-33	1	
159-42177-2		1AMF-2915-700-9696	228-34	1	
159-42178		1AMF-1560-197-7515	228-37	2	
159-42179			223-17	REF	
159-42180-15		1AMF-1560-197-9093	223-20	1	
159-42180-17		1AMF-1560-197-9094	223-24	1	
159-42182		1AMF-1560-330-6863	224-9	2	
159-42183		1AMF-1560-332-0924	224-8	2	
159-42184		1AMF-1560-025-5737	223-17	1	
159-42190		1AMF-1560-197-9095	228-6	1	
159-42191		1AMF-1560-244-1452	225-1	1	
159-42192		1AMF-5310-595-9939	228-49	1	
159-42193		1AMF-1560-030-4897	228-50	1	
159-42196		1AMF-1560-197-9096	228-9	1	
159-42197		1AMF-5307-090-5227	228-11	1	
159-42198			228-10	1	
159-42203		1AMF-1560-251-5283	228-47	1	
159-42204		1AMF-1560-251-5284	228-44	1	
159-42205		1AMF-1560-251-5325	228-48	1	
159-42206		1AMF-1560-251-5326	228-45	1	
159-42207			228-54	1	
159-42208		1AMF-1560-197-9097	228-53	1	
159-42209		1AMF-1560-327-2659	227	1	
159-42209-3		1AMF-1560-327-2660	227	1	
159-42210		1AMF-1560-216-1634	227-19	1	
159-42212		1AMF-1560-328-8737	227-14	1	
159-42213		1AMF-1560-694-7119	227-18	1	
159-42214			228-27	1	
159-42217		1AMF-5305-285-8690	227-6	1	
159-42218			223-19	1	
159-42219		1AMF-5305-298-4140	228-14	1	
159-42221		1AMF-1560-657-8648	228-59	1	
159-42223		1AMF-1560-323-7091	227-17	1	
159-42224		1AMF-1560-251-5323	64-25	2	
			224-16		
159-42801-13		1AMF	90-46	1	
159-42801-7			90-46	REF	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-43005-15		1AMF-2995-326-3873	230	1	
			232	REF	
159-43005-20			230	1	
			232	REF	
159-43005-5		1AMF-2995-659-3007	230	1	
			232	REF	
159-43015		1AMF-1560-657-8650	232-12	1	
159-43015-3			232-18	1	
159-43015-5			232-16	3	
159-43016			174-31	REF	
			175-39	REF	
			178-42	REF	
			232-2	1	
159-43017		1AMF-1560-030-4898	232-3	1	
159-43018			232-13	1	
159-43019		1AMF-2995-506-6272	232-38	1	
159-43021		1AMF-1560-525-9675	232-30	2	
			235-8		
159-43021-5		1AMF-1560-326-2757	235	1	
159-43022		1AMF-1560-251-5321	232-19	1	
159-43024			232-17	1	
159-43025		1AMF-2995-506-6273	232-9	1	
159-43026		1AMF-1560-613-0560	232-25	3	
159-43028		1AMF-2995-307-2251	232-28	2	
			235-9		
159-43029			232-14	1	
159-43031			62-3	NP	
			220		
159-43032		1AMF-1560-244-1454	116-49	4	
			230-5		
159-43032-3			230-9	1	
159-43032-5			230-8	1	
159-43033			116-50	2	
			230-11		
159-43034		1AMF-1560-251-5322	116-51	2	
			230-10		
159-43035		1AMF-1560-376-6209	116-52	7	
			230-15		
			230-33		
			230-6		
			232-42		
			235-16		
159-43037			50	NP	
			229		
159-43040			220	NP	
			229		
159-43041		1AMF-1560-525-9677	229	REF	
159-43041-10		1AMF-1560-251-5586	229	1	
159-43041-5			229-2	1	
159-43041-7			229	1	
159-43042		1AMF-1560-247-3029	229-5	1	
159-43042-5			229-6	1	
159-43043		1AMF-1560-247-3030	229	REF	
159-43046		1AMF-1560-197-9098	231-33	1	
159-43047		1AMF-1560-301-7983	231-23	1	
159-43048		1AMF-1560-035-2443	231-25	1	
159-43049		1AMF-1560-251-5319	231-7	1	
159-43050-5		1AMF-1560-035-2444	230	1	
			231	REF	
159-43051		1AMF-1560-210-9779	229-22	1	
159-43052		1AMF-1560-210-9780	229-29	1	
159-43055		1AMF-5310-209-2914	231-18	1	
159-43056		1AMF-1560-197-9099	230-31	1	
159-43057		1AMF-1560-327-2661	230-29	1	
159-43058		1AMF-2995-692-1875	230-30	1	
159-43061		1AMF-1560-197-9101	230-32	1	
159-43061-3			230-37	1	
159-43061-7			230-36	1	
159-43063		1AMF-1560-247-3031	230-14	3	
159-43063-3			230-18	3	
159-43063-5			230-19	3	
159-43065		1AMF-1560-251-3738	231-10	1	
159-43071		1AMF-5306-298-2426	226-11	1	
159-43075		1AMF-1560-035-2445	226-13	1	
159-43076		1AMF-1560-187-8400	226	REF	
			229-34	1	
159-43077		1AMF-1560-199-4377	227-20	1	
159-43078		1AMF-1560-246-5333	229-51	REF	
			231-32	1	
159-43080-1		1AMF-1560-525-9680	229-25	2	
159-43081		1AMF-1560-035-2446	230-53	2	
159-43082		1AMF-1560-199-4378	223-33	1	
159-43083-5		1AMF-1560-030-4899	230-54	1	
159-43084		1AMF-2995-187-8401	230-51	1	
159-43084-4			230-52	1	
159-43085		1AMF-1560-525-9681	230-65	REF	
159-43085-11		1AMF-1560-197-9102	230-65	2	
159-43086		1AMF-1560-662-9270	230-55	2	
159-43087		1AMF-5310-596-0071	230-59	2	
159-43088		1AMF-1560-247-7075	230-60	2	
159-43089		1AMF-1560-251-3737	230-61	2	
159-43091-5		1AMF-1560-376-6217	230	1	
159-43093		1AMF-2995-694-4236	231-31	1	
159-43096		1AMF-1560-397-0752	226-9	1	
159-43097		1AMF-1560-035-2447	231-3	2	
159-43099		1AMF-1560-035-2448	226-12	1	
159-43102		1AMF-1560-323-7103	225-30	1	
159-43103		1AMF-1560-210-9781	229-15	1	
159-43104		1AMF-1560-035-2449	229-18	2	
159-43105		1AMF-1560-217-6158	230-1	1	
			235	REF	
159-43105-5			230	1	
			235	REF	
159-43116			174-32	REF	
			175-40	REF	
			178-43	REF	
			235-2	1	
159-43116-10			235	1	
159-43116-15			232	2	
			235		
			181A-50	REF	
159-43116-5			181-41	REF	
			232-40	2	
			235		
159-43117		1AMF-2995-026-2273	235-3	1	
159-43120		1AMF-1560-244-3695	235-6	1	
159-43123		1AMF-2995-304-3245	232-33	2	
159-43124		1AMF-2995-323-7120	227-13	1	
159-43125		1AMF-5305-090-1742	227-12	2	
159-43126		1AMF-2995-332-3058	230-45	1	
159-43127		1AMF-1560-093-3948	230-46	1	
159-43128		1AMF-1560-035-2450	226-5	2	
159-43129		1AMF-1560-310-9966	230-47	2	
159-43130			62-39	NP	
			105		
			106-69	REF	
159-43131		1AMF-1560-307-2252	105-4	2	
159-43132		1AMF-1560-327-2663	105-12	2	
159-43133		1AMF-1560-187-8404	105-15	1	
159-43138		1AMF-1560-092-4391	106-10	1	
159-43139		1AMF-1560-376-6219	105-19	1	
159-43140		1AMF-1560-525-9683	67-7	2	
			110-1		
159-43141		1AMF-1560-098-8057	67-33	1	
159-44001			1-9	NP	
			220		
159-47003		1AMF-1560-525-9684	246	REF	
			247	REF	
159-47003-15		1AMF-1560-397-0753	246	REF	
			247-1	1	
159-47016			220	NP	
159-47022		1AMF-1560-092-4392	248-21	1	
159-47023			1-2	1	
159-47030		1AMF-1560-323-7124	66-20	1	
			247-45	REF	
159-47031			51-5	NP	
			247		
159-47033		1AMF-4730-376-6220	247-24	1	
159-47038		1AMF-1560-187-8405	66-21	1	
159-47039		1AMF-1560-327-2664	247-20	1	
159-47040			191-58	REF	
			220	NP	
			247		
159-47048		1AMF-1560-327-2665	246-19	1	
159-47050		1AMF-1560-330-6869	246-20	1	
159-47055		1AMF-1560-210-9782	247-35	1	
159-47059		1AMF-1560-304-9745	246-12	1	
159-47063		1AMF-1560-035-2451	247-33	1	
159-47064			246-8	REF	
159-47064-11			246-8	1	
159-47065		1AMF-1560-307-9889	246-11	1	
159-47066		1AMF-1560-336-1227	246-9	1	
159-47070		1AMF-1560-376-6223	246-10	2	
159-47071			247-14	1	
159-47077-11			246-3	REF	
159-47079			246-5	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-47080		1AMF-1560-663-4560	246-4	2	
159-47090		1AMF-1560-310-9967	59-9	2	
			61-8		
			248-50	REF	
159-47094		1AMF-1560-244-3692	225-24	1	
159-47097		1AMF-1560-244-3693	236-3	2	
			245-3		
159-47098		1AMF-1560-692-1876	247-47	REF	
			248-5	1	
159-47099		1AMF-4730-595-3460	248-11	1	
159-47101		1AMF-1560-187-8408	247-34	2	
159-47102		1AMF-1560-187-8409	247-2	2	
159-47102-7		1AMF-1560-030-4900	247-3	2	
159-47105		1AMF-1560-187-8410	247-33	REF	
			247-34	REF	
159-47108			251	1	
159-47110			66	1	
159-47111		1AMF-1560-092-4393	66-15	1	
159-47116-1		1AMF-1560-657-8398	66-19	1	
159-47116-2		1AMF-1560-657-8652	66	1	
159-47117		1AMF-1560-525-9686	66-6	REF	
159-47117-35		1AMF-1560-234-9062	66-6	1	
159-47123			66-14	REF	
159-47130		1AMF-1560-187-8412	225-25	2	
159-47131		1AMF-1560-657-8653	66-14	1	
159-47141		1AMF-5306-477-9627	247-31	3	
159-47146		1AMF-2995-197-9103	248-4	1	
159-47147			251-26	1	
159-47155		1AMF-1560-525-9687	248-35	1	
159-47156		1AMF-1560-244-3690	248	1	
159-47157		1AMF-1560-197-9104	248-45	1	
159-47159		1AMF-1560-244-3691	248	1	
159-47160		1AMF-1560-197-9105	248-40	1	
159-47162		1AMF-5306-308-3379	248-24	1	
159-47163		1AMF-1560-197-9106	248-12	1	
159-47164			248-14	1	
159-47165			248-13	1	
159-47166		1AMF-1560-657-8654	248-15	1	
159-47167		1AMF-1560-035-2452	248-27	1	
159-47168			248-46	1	
159-47168-3			248-47	1	
159-47168-5		1AMF-1560-306-3918	248-48	1	
159-47169		1AMF-1560-194-3134	248-41	1	
159-47169-3		1AMF-1560-306-3919	248-42	1	
159-47169-5			248-43	1	
159-47317		1AMF-1560-328-3278	236-19	2	
			245-18		
159-47801-21		1AMF-1560-310-1284	247-48	REF	
			248-1	1	
159-47801-25		1AMF-1560-388-8497	248-49	1	
159-47801-27		1AMF-1560-327-2666	248-19	1	
159-47802-15		1AMF-1560-092-4394	247-44	1	
159-47903-15		1AMF-1560-214-9357	247	1	
159-48001			1	NP	
159-48002-1		1AMF-1560-304-9746	28	1	
159-48002-2		1AMF-1560-312-9974	28	1	
159-48010			3-27	NP	
			26		
159-48012			27-41	REF	
159-48012-1			24-21	NP	
			26		
159-48012-2			24	NP	
			26		
159-48013-1			13	NP	
			26		
159-48013-2			13	NP	
			26		
159-48014			26	REF	
			90-1	1	
			90-3	REF	
			95-57	REF	
159-48016-1			2	2	
			28-1		
159-48016-2		1AMF-1560-657-8656	2	2	
			28		
159-48016-3		1AMF-1560-525-9688	2	2	
			28		
159-48016-4		1AMF-1560-525-9689	2	2	
			28		
159-48017-1			2	2	
			26-15		
159-48017-2			2	2	
			26		

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-48018-1			26	2	
159-48018-2			26	2	
159-48020		1AMF-1560-188-7522	2	4	
			26-27		
159-48021-1		1AMF-1560-307-2214	2	2	
			26-41		
159-48021-2		1AMF-1560-307-2253	2	2	
			26		
159-48023-1		1AMF-1560-310-9968	34-14	3	
			35-21		
			35-6		
159-48023-2		1AMF-1560-525-9690	34-13	3	
			35-20		
			35-7		
159-48024-1		1AMF-1560-651-3711	34	2	
			35		
159-48024-2			34-11	2	
			35-18		
159-48026		1AMF-1560-376-6225	2	10	
			34-17		
			35-24		
			35-8		
159-48027			90	REF	
159-48027-11			90	1	
159-48027-3			90	REF	
			91	REF	
			92	REF	
159-48027-5			90	REF	
159-48027-7		1AMF-1560-676-1361	90-13	2	
			91-21		
			92-29		
159-48027-9		1AMF-1560-308-6395	90	3	
			91		
			92		
159-48028-3		1AMF-1560-323-7129	28-41	1	
159-48028-5		1AMF-1560-323-7130	28-42	1	
159-48029		1AMF-1560-692-1878	26-45	1	
			27-31		
			32-53	REF	
159-48030		1AMF-1560-187-8413	18-19	2	
159-48031			51	NP	
			90		
159-48032			93-4	1	
159-48036-1		1AMF-1560-509-3688	24-22	3	
159-48036-2		1AMF-1560-536-6634	24	3	
159-48037		1AMF-1560-244-3688	24-20	2	
159-48038		1AMF-1560-692-1879	28-18	2	
159-48040			90	NP	
			220		
159-48041			90-29	REF	
159-48041-10			90-29	REF	
159-48041-20			90-29	REF	
159-48041-30			90-29	1	
159-48043		1AMF-1560-327-2667	28-39	7	
			28-43		
			29-31		
159-48045-1		1AMF-1560-697-0282	26-47	1	
159-48045-2		1AMF-1560-697-0283	26	1	
159-48050		1AMF-1560-253-2462	27-23	14	
			28-27		
			28-36		
			29-21		
			29-34		
159-48051		1AMF-1560-376-6226	2	14	
			26-42		
			28-21		
			29-26		
			32-19		
159-48053		1AMF-1560-657-8657	28-37	1	
159-48054-1		1AMF-1560-214-9358	2	6	
			28-6		
			29-6		
159-48054-2		1AMF-1560-214-9359	2	6	
			28-7		
			29		
159-48057-1		1AMF-1560-657-8658	34	2	
			35		
159-48057-2		1AMF-1560-651-3716	34-12	2	
			35-19		
159-48059		1AMF-1560-187-8416	66-25	1	
159-48059-13		1AMF-1560-657-8660	66-26	1	
159-48061-1		1AMF-1560-339-8161	28-26	1	
159-48061-2		1AMF-1560-339-8162	28	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO REPAIR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-48062		1AMF-4730-541-2877	28-29	2	
159-48063		1AMF-1560-187-8417	28-47	6	
			29-37		
			32-4		
159-48064		1AMB-1560-187-8418	28-48	6	
			29-38		
			32-5		
159-48065		1AMF-1560-030-4901	26-16	2	
159-48065-10			91-23	2	
			92-12		
159-48067-3		1AMF-1560-323-7134	28	12	
			29		
159-48067-5		1AMF-1560-323-7137	28-33	4	
			29-28		
159-48068		1AMF-5307-477-9628	28-32	20	
			29-27		
			32-9		
159-48070		1AMF-1560-568-2716	30-7	4	
			31-10		
159-48071		1AMF-1560-514-9352	70-33	2	
			70-54		
			72		
159-48073		1AMF-1560-187-9962	28-13	2	
159-48074		1AMF-2915-197-3513	2	8	
			26-42		
			32-18		
			33	REF	
159-48075			33-8	2	
159-48076			33	2	
159-48077		1AMF-1560-698-9607	33-2	2	
159-48078			33-4	2	
159-48079			33-3	2	
159-48080		1AMF-1560-210-9784	33-7	2	
159-48081		1AMF-1560-265-8540	33-5	2	
159-48082		1AMF-1560-526-5479	33-6	2	
159-48083		1AMF-2915-373-7901	33-11	2	
159-48085		1AMF-1560-310-1285	90-34	1	
159-48085-5		1AMF-1560-310-1286	90	1	
159-48091-1		1AMF-1560-651-3718	26-12	2	
			35-33		
159-48091-2		1AMF-1560-035-2453	26-13	2	
			35-34		
159-48093-1		1AMF-1560-310-1287	28-30	1	
			29	REF	
159-48093-2		1AMF-1560-310-1288	28	1	
			29	REF	
159-48093-3		1AMF-1560-376-6230	29-19	1	
159-48093-4		1AMF-1560-376-6231	29	1	
159-48094		1AMF-5330-171-3628	17-26	2	
159-48095		1AMF-1560-657-8664	93-11	1	
159-48095-3		1AMF-1560-386-7540	93-23	1	
159-48113-1			15	NP	
			30		
159-48113-11			16	NP	
			30		
159-48113-12			16	NP	
			30		
159-48113-2			15	NP	
			30		
159-48128-1			30-1	1	
159-48128-2			30	1	
159-48128-49			30	1	
159-48128-50			30	1	
159-48131		1AMF-1560-304-8678	30-4	2	
159-48132			30-3	1	
159-48134			30	8	
			31		
159-48136-1			30-5	1	
159-48136-11			30	1	
159-48136-12			30	1	
159-48136-2			30	1	
159-48137-1			30-6	1	
159-48137-2			30	1	
159-48137-5			30	1	
159-48137-6			30	1	
159-48139-1			30-2	1	
159-48139-2			30	1	
159-48143		1AMF-1560-250-9566	95-3	2	
159-48144-3		1AMF-1560-397-0754	95	1	
159-48145		1AMF-1560-651-3720	95-11	1	
159-48147-3			95-29	1	
159-48148-3		1AMF-1560-244-4742	95-8	1	
159-48148-5		1AMF-1560-244-4743	95-7	1	
159-48149-3		1AMF-1560-244-4744	95	1	
159-48149-5		1AMF-1560-244-4745	95-14	1	
159-48150-7		1AMF-1560-244-4746	95-25	1	
159-48151		1AMF-1560-376-6235	95-16	1	
159-48152			95-19	2	
159-48153		1AMF-1560-376-6236	95	1	
159-48154		1AMF-1560-197-3028	95-21	2	
			95-27		
159-48155			95-35	2	
159-48156		1AMF-1560-251-9584	95-34	1	
159-48158			95-56	1	
159-48159			95-40	2	
159-48160-3		1AMF-1560-651-3719	95-53	1	
159-48160-5		1AMF-1560-376-6237	95-54	1	
159-48162			95-10	1	
159-48165		1AMF-1560-613-8349	95-30	1	
159-48167			95-44	2	
			95-49		
159-48169			62-4	NP	
159-48801-10		1AMF-1560-323-7152	26-3	1	
159-48801-11		1AMF-1560-613-8352	90-5	1	
159-48801-12		1AMF-1560-508-8580	90-7	1	
159-48801-13		1AMF-1560-312-9976	90-9	1	
159-48801-15		1AMF-1560-310-9969	26	1	
159-48801-16			90	1	
159-48801-17			26-44	1	
159-48801-18			26	1	
159-48801-19			26-49	1	
159-48801-20		1AMF-1560-312-9977	26	1	
159-48801-21		1AMF-1560-342-8637	90	1	
			91-41	REF	
			92-44	REF	
159-48801-22		1AMF-1560-217-6159	90	1	
			91-42	REF	
			92-45	REF	
159-48801-23		1AMF-1560-657-8665	90	1	
159-48801-28		1AMF-1560-040-6997	90-25	1	
159-48801-3		1AMF-1560-327-2668	26-9	1	
159-48801-30		1AMF-1560-657-8666	90-28	1	
159-48801-31			26-21	1	
159-48801-32			26	1	
159-48801-33		1AMF-1560-024-4388	90	1	
159-48801-34		1AMF-1560-217-6160	90-26	1	
159-48801-35			26-30	1	
159-48801-36			26-28	1	
159-48801-37			26-5	1	
159-48801-38			90-16	1	
159-48801-39			26-32	1	
159-48801-4		1AMF-2915-653-3872	26	1	
159-48801-40			90-18	1	
159-48801-41		1AMF-1560-511-4873	90-23	1	
159-48801-42			26	1	
159-48801-5		1AMF-1560-657-8400	26-7	1	
159-48801-6			26	1	
159-48801-7		1AMF-1560-547-2461	90	1	
159-48801-8		1AMF-1560-307-2254	26-2	1	
159-48801-9		1AMF-1560-092-4395	26-4	1	
159-48803		1AMF-1560-386-7541	90-11	REF	
159-48803-10		1AMF-1560-092-4396	90-11	1	
159-48804-1			26-20	1	
159-48804-2		1AMF-1560-312-9978	26	1	
159-51003		1AMF-1560-326-2759	99-1	1	
159-51003-10		1AMF-1560-332-0925	99	1	
159-51003-5			99-5	2	
159-51003-7			99-4	1	
159-51003-9			99-8	1	
159-51004		1AMF-1560-035-2454	101-1	1	
159-51004-10		1AMF-1560-657-8667	101	1	
159-51004-20		1AMF-1560-657-8668	101	1	
159-51005		1AMF-1560-657-8669	98-1	2	
			99	REF	
			153-75	REF	
			154-73	REF	
			155-60	REF	
			156-45	REF	
159-51007		1AMF-1560-035-2455	101-6	1	
159-51007-10		1AMF-1560-653-3736	101	1	
159-51008		1AMF-1560-198-3362	98-20	1	
159-51008-10		1AMF-6685-198-3363	98-21	1	
159-51009		1AMF-2925-198-3364	251-2	1	
159-51009-10		1AMF-2925-198-3365	251-1	1	
159-51010		1AMF-1560-342-1689	101	1	
159-51011			68	REF	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART.	SOURCE CODE
159-51011-51			68	1	
159-51012		1AMF-1560-030-4902	66-34	1	
			251-50	REF	
159-51013-1			13	NP	
			14		
			34		
			35		
159-51013-2			13	NP	
			14		
			34		
			35		
159-51014			7	NP	
			34		
159-51016		1AMF-1560-244-6397	251-6	2	
159-51018			6	1	
159-51020		1AMF-1560-323-7160	251-8	2	
159-51022			52-41	1	
159-51022-51			52	2	
			53-15		
159-51028-3		1AMF-1560-098-8058	6-7	1	
159-51028-5		1AMF-1560-098-8059	6-8	1	
159-51028-7		1AMF-1560-098-8060	6-6	1	
159-51029			6-11	REF	
159-51031			50-2	NP	
			98		
159-51033			51	NP	
			96		
			98		
			251		
159-51035		1AMF-6685-024-3976	98-3	1	
159-51036			58-2	NP	
			96		
			98		
			251		
159-51039-3			98-13	1	
159-51039-5			98-14	1	
159-51039-7			98	1	
159-51040			220	NP	
			251		
159-51047			98-15	1	
159-51048		1AMF-1560-216-1635	101-56	2	
159-51051		1AMF-1560-198-3366	51-1	2	
			102-14		
159-51052			99-21	2	
159-51061		1AMF-1560-332-3030	101-10	2	
159-51062			101-16	2	
159-51064		1AMF-1560-210-9785	101-59	2	
159-51065			97-31	REF	
159-51067		1AMF-1560-210-9786	251-23	1	
159-51072			251	2	
			253		
159-51074			101-11	2	
159-51075			99	2	
159-51075-3			99-3	2	
159-51075-5			99-2	2	
159-51076		1AMF-1560-098-8061	6-11	1	
159-51082		1AMB-5305-038-1357	6-19	2	
159-51104		1AMF-1560-323-7190	101-2	1	
159-51104-10		1AMF-1560-092-4397	101	1	
159-51107		1AMF-1560-035-2456	101-8	1	
159-51107-10		1AMF-1560-657-8672	101	1	
159-51107-20			101	1	
159-51112			59	1	
			60-25		
159-51114			7	NP	
			34		
159-51131			83	NP	
			98		
159-51145-1			63	1	
159-51145-2			59	1	
			60		
159-51801-10			96-26	1	
159-51801-12			96-12	2	
			97-11		
159-51801-14			101-18	1	
159-51801-16			96-41	1	
159-51801-18			96-42	1	
159-51801-2			98-30	1	
159-51801-20		1AMF-1560-312-9979	101	1	
159-51801-22			96-34	2	
			97-17		
			98-39	REF	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART.	SOURCE CODE
159-51801-24			96-24	1	
159-51801-26			96-38	1	
159-51801-28		1AMF-1560-651-3721	34-3	2	
			35-10		
159-51801-30			34-5	2	
			35-12		
159-51801-32			34-20	1	
			96-56	REF	
159-51801-34			101-19	1	
159-51801-36			96-40	1	
159-51801-38			96-43	1	
159-51801-4			98-31	1	
159-51801-40			101	1	
159-51801-42			96-39	2	
			97-59		
159-51801-44		1AMF-1560-651-3722	96-11	1	
			97-67	REF	
159-51801-46		1AMF-1560-024-4389	96-52	2	
			97-27		
159-51801-48			96-46	1	
159-51801-50			96-20	1	
159-51801-56		1AMF-1560-024-4390	96-53	2	
			97-28		
159-51801-58			96-48	1	
159-51801-6			98-26	1	
159-51801-60			96-22	1	
159-51801-64			96	1	
159-51801-66			96-12	1	
159-51801-70			96-47	1	
159-51801-72			96-21	1	
159-51801-74			96-44	1	
159-51802-10			251-37	1	
159-51802-14			251-39	1	
159-51802-18			251-49	1	
159-51802-20		1AMF-1560-092-4398	251-45	1	
159-51802-22		1AMF-1560-092-4399	251-30	1	
159-51802-24		1AMF-1560-657-8673	251-41	1	
159-51802-28		1AMF-1560-092-4400	251-20	1	
159-51802-30		1AMF-1560-092-4401	251-17	1	
159-51802-33			251-19	1	
159-51802-34		1AMF-1560-092-4402	251	1	
159-51802-36		1AMF-1560-339-8163	251	1	
159-51802-42			251	1	
159-51802-7			251-27	1	
159-51802-8		1AMF-1560-512-0914	251-28	1	
159-52005			67-2	1	
			106-68	REF	
			110		
159-52005-10			67	1	
			110	REF	
159-52010			67	2	
			110-51		
			113	REF	
159-52011			113-11	1	
159-52011-3		1AMF-1560-328-8738	113-12	1	
159-52011-5		1AMF-1560-328-8739	113	1	
159-52012		1AMF-1560-657-8674	113-21	1	
159-52013-1			13	NP	
			14		
			36		
159-52013-2			13	NP	
			14		
			36		
159-52014		1AMF-1560-651-3723	113-22	2	
159-52015			113-23	REF	
159-52016		1AMF-1560-563-6629	113-26	1	
159-52017		1AMF-1560-198-3367	113-8	1	
159-52018		1AMF-1560-524-2221	113-10	2	
159-52019		1AMF-1560-265-8539	113-16	1	
159-52020		1AMF-1560-251-3780	113-15	1	
159-52021		1AMF-5355-519-3325	113-13	1	
159-52022		1AMF-1560-376-6243	113-7	1	
159-52023-1		1AMF-1560-376-6244	113-24	1	
159-52023-2		1AMF-1560-327-2671	113-25	1	
159-52024		1AMF-1560-251-5270	67-4	1	
159-52025		1AMF-1560-657-8675	113-27	1	
159-52026-3		1AMF-1560-613-8378	113-23	2	
159-52028			113-9	1	
159-52031			51	NP	
			106		
159-52032			55	NP	
			118		

PART NUMBER	STOCK NO (CAGE CODE / PART NO)	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-52102	1AMF-1560-376-246	112-48	1	
159-52103	1AMF-1560-376-6247	51-32	REF	
		112-47	1	
159-52104-5	1AMF-1560-198-3368	112-29	1	
159-52105-5	1AMF-1560-198-3369	112-27	1	
159-52106	1AMF-1560-657-8676	112-57	1	
159-52107	1AMF-1560-198-3379	112-1	1	
159-52108-3		112	1	
159-52108-5	1AMF-1560-306-3920	112-33	1	
159-52109		112-32	1	
159-52109-3		112	1	
159-52110	1AMF-1560-323-7206	3-39	REF	
		112-42	1	
159-52111		67-15	1	
159-52112		67-12	1	
159-52113	1AMF-1560-251-2224	112-34	1	
159-52114	1AMF-5340-200-4746	112-40	1	
159-52115	1AMF-1560-330-6871	112-41	1	
159-52116	1AMF-1560-525-9691	112-38	1	
159-52117-15		74-8	1	
159-52117-5		108-23	1	
159-52118	1AMF-1560-198-3370	112-2	1	
159-52119	1AMF-1560-657-8677	112-52	2	
159-52120	1AMF-1560-545-6590	67-8	2	
		110-7		
159-52121		67	1	
159-52122		110-6	1	
159-52123		67-13	1	
159-52125		51-7	1	
		112	REF	
159-52201	1AMF-1560-244-3689	118-44	1	
159-52203-5	1AMF-1560-035-2458	106-25	1	
159-52204	1AMF-1560-244-3687	106-15	1	
		109	REF	
159-52204-5	1AMF-1560-652-0522	109-19	1	
159-52205	1AMF-1560-323-7207	109-28	1	
159-52206		109-20	1	
159-52207	1AMF-5340-200-4732	109-21	1	
159-52208	1AMF-1560-332-0926	109-24	1	
159-52209	1AMF-1560-327-2673	109-27	1	
159-52213	1AMF-1560-247-4554	106-19	1	
159-52216	1AMF-1560-247-9514	106-63	2	
159-52217	1AMF-1560-251-5366	118-15	2	
159-52219-3	1AMB-1560-193-0975	118-40	1	
159-52219-5	1AMB-5340-200-4713	118-33	1	
159-52220-11	1AMB-5340-185-5550	3-25A	4	
		4-9		
159-52220-3	1AMB-5340-247-4555	74-15	7	
		74-29		
		74-44		
		118-39		
159-52220-5	1AMB-5340-185-5549	106-21A	2	
		118-34		
159-52221-10	1AMF-1560-330-6874	106	1	
159-52229	1AMF-1560-327-2674	106-34	1	
159-52248	1AMF-1560-185-1938	106-28	1	
159-52249	1AMB-1560-247-9513	109-17	1	
159-52251	1AMF-1560-193-0976	118-35	1	
159-52251-5	1AMF-1560-652-0523	118-38	1	
159-52303		36-43	REF	
159-52303-1	1AMF-1560-376-6257	12-6	1	
159-52303-2	1AMF-1560-035-2460	12	1	
159-52304	1AMF-1560-247-4557	36-10	2	
159-52305	1AMF-1560-247-9515	36-39	2	
159-52306	1AMF-1560-247-9516	36-40	2	
159-52307		36-44	REF	
159-52307-1		22-19	2	
		23-19		
159-52307-2		22	2	
		23		
159-52308		4-48	REF	
159-52308-1	1AMF-1560-657-8680	36-34	REF	
159-52308-11	1AMF-1560-244-6398	36-34	1	
159-52308-12	1AMF-1560-244-6399	36	1	
159-52308-2	1AMF-1560-657-8681	36	REF	
159-52310	1AMF-1560-345-6418	22-21	4	
		23-21		
159-52311	1AMF-1560-198-3373	3-20	1	
		4-49	REF	
159-52312	1AMF-1560-198-3374	4-6	2	
		36-45	REF	
159-52312-5		4	2	
159-52313-1		22	2	
159-52313-1		23		
159-52313-2		22	2	
		23		
159-52314		22	2	
		23		
159-52316-1		22	2	
		23		
159-52316-2		22	2	
		23		
159-52317		22	2	
		23		
159-52318	1AMF-1560-247-9517	36-41	2	
159-52320	1AMF-1560-247-4558	22-20	4	
		23-20		
159-52322	1AMF-1560-247-4559	4-38	1	
159-52330	1AMF-1560-247-4560	12-7	2	
159-52332	1AMF-1560-525-9693	36-3	2	
159-52335	1AMF-1560-247-4561	4-12	1	
159-52337	1AMF-1560-247-9500	36-32	4	
159-52361-3	1AMF-1560-244-6400	36-8	1	
159-52361-5	1AMF-1560-247-4562	36	1	
159-52362-5	1AMF-1560-247-4563	5-17	REF	
		36-1	2	
159-52403	1AMF-1560-327-2676	111-38	4	
159-52404-5	1AMF-1560-327-2677	111-33	4	
159-52405	1AMF-1560-198-3377	111-1	2	
159-52407		121-45	REF	
		122-22	REF	
159-52408-1	1AMF-1560-327-2678	109-14	2	
159-52408-2	1AMF-1560-327-2679	109-15	2	
159-52409	1AMF-1560-198-3378	111-8	8	
159-52410-1	1AMF-1560-327-2680	111-17	2	
159-52410-2	1AMF-1560-327-2681	111	2	
159-52410C	1AMF-1560-251-5280	106	1	
159-52410J	1AMF-1560-210-9788	114	1	
159-52411	1AMF-1560-657-8489	111-29	4	
159-52412	1AMF-1560-198-3381	118-30	1	
159-52412-5	1AMF-1560-652-0524	118	1	
159-52413-31	1AMF-1560-327-2682	111-14	4	
159-52414-1	1AMF-1560-251-9577	111	1	
159-52414-2	1AMF-1560-247-4564	111	1	
159-52415	1AMF-1560-328-8740	106-7	2	
		109	REF	
		111		
159-52415-9	1AMF-1560-657-8684	109-11	1	
159-52416-7	1AMF-1560-376-6270	109-12	1	
159-52416-9	1AMF-1560-376-6271	109-13	1	
159-52417	1AMF-1560-198-3382	109-4	2	
159-52418	1AMF-1560-545-6591	67	1	
159-52419	1AMF-1560-376-6273	111-15	2	
159-52420		101-43	1	
159-52421	1AMF-1560-657-8685	101-36	1	
		106-67	REF	
159-52421-3		101-46	1	
159-52421-5	1AMF-1560-320-5850	101-47	1	
159-52422		101	1	
159-52423		64	1	
159-52424	1AMF-1560-251-5279	106-52	1	
159-52425	1AMF-1560-652-0525	106-64	1	
159-52426	1AMF-1560-251-5282	106-62	2	
159-52427	1AMF-1560-251-5281	118-3	2	
159-52428	1AMF-1560-545-6592	67	2	
159-52433	1AMF-1560-662-6448	111-26	8	
159-52434	1AMF-1560-251-5273	111-24	4	
159-52436	1AMF-1560-327-2684	109-5	2	
159-52437		111-37	4	
159-52438	1AMF-1560-327-2685	111-13	4	
159-52440		109-16	1	
159-52441		86-40	1	
159-52443	1AMF-1560-323-7211	113-3	1	
159-52445	1AMF-1560-312-9980	110-27	1	
159-52447		110-42	1	
159-52448		110-46	1	
159-52449		110-14	1	
159-52450		110-8	1	
159-52450-10		110	1	
159-52451		110-35	1	
159-52452		110-39	1	
159-52453		110-24	1	
159-52454	1AMF-1560-198-3383	110-9	1	
159-52461		110-23	1	
159-52462		110-20	2	
159-52466	1AMF-1560-652-0514	106-53	1	

PART NUMBER	STOCK NO	FIGURE AND INDEX	QTY PER ART
159-52473	1AMF-1560-312-9981	118-7	4
159-52474		62-5	NP
		111	
159-52475		58-3	NP
		111	
159-52478	1AMF-1560-188-2325	114-1	1
		118-72	REF
159-52483	1AMF-1560-185-1939	114-6	1
159-52490	1AMF-1560-244-6401	106	1
159-52492	1AMF-1560-547-2462	67	1
159-52496-1	1AMF-1560-185-4179	111-25	2
159-52496-2	1AMF-1560-185-4177	111	2
159-52497	1AMF-1560-393-9778	111	-
159-52498	1AMF-1560-376-6280	118	1
159-52498-5		118	1
159-52501	1AMF-1560-198-3384	62-17	1
		106-70	REF
		108-26	REF
		115	REF
159-52502	1AMF-1560-198-3385	62-18	1
		106-71	REF
		115	REF
159-52503	1AMF-1560-657-8488	115-60	2
159-52507	1AMF-1560-304-3247	115-59	2
159-52508	1AMF-1560-247-4568	67-43	2
		108-13	
159-52510	1AMF-1560-525-9695	115-33	REF
159-52511	1AMF-1560-376-6282	115-5	2
159-52512	1AMF-1560-650-5338	115-39	1
159-52513	1AMF-1560-376-6283	115-61	2
159-52514	1AMF-1560-247-4569	108-17	1
159-52514-3		108-22	1
159-52515	1AMF-3120-661-9715	115	4
		115-6	
159-52516	1AMF-1560-166-9551	115-9	4
159-52519	1AMF-1560-251-5275	3-36	REF
		36-47	REF
		64-36	1
		106-72	REF
159-52520	1AMF-1560-247-4570	3-37	REF
		36-25	1
159-52521	1AMF-1560-376-6285	115-6	2
159-52523	1AMF-1560-376-6286	115-15	4
		115-42	
159-52525	1AMF-1560-376-6287	108-18	1
159-52526	1AMF-1560-376-6288	115-48	2
159-52527-11	1AMF-1560-250-9568	115-13	2
159-52527-9	1AMF-1560-251-9583	115-30	2
159-52529	1AMF-1560-251-3741	64-32	1
159-52530	1AMF-1560-333-6927	115	4
159-52531	1AMF-1560-251-5278	118-63	2
159-52532	1AMF-1560-251-3742	108-7	1
159-52533	1AMF-1560-251-5277	118-49	1
159-52534	1AMF-1560-251-3743	108	1
159-52536	1AMF-1560-247-7079	115-43	2
159-52537	1AMF-1560-092-4403	115-49	2
159-52538		67-36	1
159-52538-5		67-37	1
159-52539	1AMF-1560-092-4404	108-21	1
159-52542	1AMF-1560-376-6294	64-37	3
		67-44	
		108-14	
159-52543	1AMF-1560-035-2466	108	1
159-52544	1AMF-1560-035-2467	108-10	1
159-52546	1AMF-1560-198-3387	115-21	2
159-52546-7	1AMF-1560-652-0517	115-25	2
159-52547		86	1
159-52548	1AMF-1560-198-3388	115-22	2
159-52548-7		115	2
159-52549	1AMF-1560-657-8688	115-19	2
159-52551		67	1
159-52552		63	1
159-52553		63	1
159-52554		52	2
		53	
159-52556	1AMF-1560-652-0518	106-47	1
159-52557		52	2
		53	
159-52558		52	2
		53	
159-52559	1AMF-1560-251-5272	106-46	4
159-52561	1AMF-1560-198-3389	118-62	2
159-52562	1AMF-1560-198-3380	118-48	1

PART NUMBER	STOCK NO	FIGURE AND INDEX	QTY PER ART
159-52563		64-33	1
159-52564		52	1
159-52564-21		52	2
		53	
159-52565		106-48	1
159-52568	1AMF-1560-189-1385	108	1
159-52569	1AMF-1560-189-1386	108-4	1
159-52570		62-6	NP
		108	
		118-67	REF
159-52574	1AMF-1560-511-4875	115-40	2
159-52578	1AMF-1560-376-6295	115-50	2
159-52579	1AMF-1560-185-3238	115-47	2
159-52581		115-56	REF
159-52582	1AMF-1560-315-5664	115-45	2
159-52583	1AMF-1560-251-5269	115-58	2
159-52585	1AMF-1560-250-9567	115-56	2
159-52586	1AMF-1560-657-8689	36-19	4
159-52603	1AMF-1560-247-4571	116-7	1
159-52604		116-64	1
159-53008		50-6	NP
		187	
159-53011	1AMF-1680-477-9631	186-18	2
		186A-35	
159-53012		58-4	NP
		186	
		186A	
159-53013		83	NP
		186	
		186A	
159-53015-1		52-22	1
159-53015-2		52	1
159-53016	1AMF-1560-699-4862	52-18	1
159-53018	1AMF-1560-216-1637	186-15	1
159-53019		187	REF
159-53019-10		187	1
159-53019-13		187	1
159-53019-3		187	REF
159-53020		186-7	1
159-53020-10	1AMF-1560-657-8690	186	1
159-53025-4		187	1
159-53025-5		187	REF
159-53025-6	1AMF-1680-343-4254	187-16	1
159-53028	1AMF-1680-330-6876	187-21	2
159-53031		50	NP
		186	
159-53036		186-29	1
159-53036-11		186-38	2
		186A-41	
159-53036-13		186-27	1
159-53036-15		186-28	1
159-53036-17	1AMF-1560-386-7542	186	2
		186A-30	
159-53036-19		186	2
		186A-31	
159-53036-5	1AMF-1560-386-7544	186-33	2
		186A-36	
159-53036-7		186A-32	
159-53036-9	1AMF-1560-386-7545	186-34	2
		186A-37	
159-53037		186-27	2
		186A-27	
159-53038		186-37	2
		186A-40	
159-53039	1AMF-1560-326-3876	84-39	1
		186-42	REF
		186A-42	REF
159-53040	1AMF-1680-040-6998	187-23	2
159-53042	1AMF-1560-189-1383	186-4	2
		186A-4	
159-53043	1AMF-1560-189-1384	186-5	2
		186A-5	
159-53064	1AMF-1560-376-6299	186-26	4
		186A	
159-53066	1AMF-1680-339-8164	187-22	2
159-53067	1AMF-1560-210-9791	70-47	4
159-53075		1	NP
		253	
159-53076	1AMF-1560-525-9696	186-1	1
159-53080	1AMF-1560-189-1382	186-19	1
159-53080-31	1AMF-1560-251-3744	186	2
		186A-22	
159-53090		186-23	1

PART NUMBER	STOCK NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
	(A) CODE / (B) (C) (D) (E)			
159-53091-1		186-22	REF	
159-53091-2		186	REF	
159-53092-1		186-22	1	
159-53092-2		186	1	
159-53093		186-21	1	
159-53102	1AMF-1660-694-7120	186-3	2	
		106A-3		
159-53103		59	1	
159-53103-10		59	1	
159-53103-11		59-21	1	
159-53103-13		59-23	1	
159-53103-15		59-22	1	
159-53106	1AMF-1560-185-1940	186	1	
159-53305		62-7	NP	
		191		
159-53306		58-5	NP	
		193		
159-53306-10		58	NP	
		193		
159-53307		60-3	NP	
		197		
159-53310		197-5	REF	
159-53321	1AMF-1560-189-1378	197-18	2	
159-53325-3		190-25	5	
		191-23		
159-53325-4	1AMF-1660-214-9360	192-4	3	
159-53325-5		193-21	3	
159-53325-6	1AMF-1560-247-4572	190-21	1	
159-53325-7	1AMF-1560-376-6304	190-29	7	
		191-26		
		192-2		
		193-2		
159-53325-8	1AMF-1560-247-4573	190-32	3	
159-53325-9	1AMF-1660-214-9361	190-38	3	
		191-35		
159-53326	1AMF-1560-092-4406	192-43	1	
159-53329		196-22	1	
159-53330	1AMF-1560-376-6308	196-24	1	
159-53331		51-4	NP	
		190		
159-53332		196-16	1	
159-53337	1AMF-1560-547-2463	192-15	1	
159-53338	1AMF-1560-035-2469	196-21	1	
159-53339	1AMF-1560-251-3745	196-17	1	
159-53340	1AMF-1560-092-4407	192-19	1	
		196	REF	
159-53342		192-35	1	
159-53343	1AMF-1560-563-6632	66-32	1	
159-53345	1AMF-1560-323-7216	192-46	1	
159-53348	1AMF-1660-694-7121	196-13	1	
159-53348-10	1AMF-1660-694-7122	196	1	
159-53349	1AMF-1560-376-6309	192-5	1	
159-53351	1AMF-1560-376-6310	192-41		
		192-6	5	
		196-23		
159-53352	1AMF-1560-376-6311	195-25	1	
159-53353	1AMB-1560-320-5705	196-5	2	
159-53357	1AMF-1560-376-6312	190-35	2	
159-53360-19		191	1	
159-53360-23	1AMF-1560-613-8411	197-16	1	
159-53360-27	1AMF-1560-308-6383	197-1	1	
159-53360-39	1AMF-1560-533-2237	191-17	1	
159-53360-43	1AMF-1560-699-4091	197	1	
159-53360-47	1AMF-1560-657-8694	191-14	1	
159-53360-7	1AMF-1560-506-6274	197-12	1	
159-53361	1AMF-1560-657-8695	196-20	1	
159-53363	1AMF-1560-376-6313	197-11	1	
159-53364-3	1AMF-1560-304-3249	197	1	
159-53364-5	1AMF-1560-304-3250	197-10	1	
159-53368	1AMF-1560-657-8696	63-44	1	
159-53375		193-19	1	
159-53376	1AMF-1560-092-4408	193-13	1	
159-53377	1AMF-1560-697-9807	190-36	1	
		193-27	REF	
159-53380		193	REF	
159-53382	1AMF-1560-657-8697	193-18	1	
159-53383	1AMF-1560-251-3746	19-12	1	
		197-24	REF	
159-53385	1AMF-1560-092-4409	190-33	1	
		195-26	REF	
159-53392	1AMF-1560-386-7546	197-6	1	
159-53394		19-12	REF	
159-53397	1AMF-1560-386-7547	197-21	1	

PART NUMBER	STOCK NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
	(A) CODE / (B) (C) (D) (E)			
159-53399	1AMF-1560-312-9982	197-7	1	
159-53400		63-46	1	
		190-58	REF	
159-53403	1AMF-1560-245-9060	225-23	1	
159-53425	1AMF-1560-327-2689	195-23	1	
159-53427		195-8	1	
159-53428	1AMF-1560-250-9569	195-15	1	
159-53429	1AMF-1560-245-9061	195-18	1	
159-53430	1AMF-1560-246-1927	195-1	1	
159-53431	1AMF-5310-308-3380	195-22	2	
159-53432	1AMF-5310-596-0105	195-11	1	
159-53432-10	1AMF-5310-596-0106	64-16	4	
		103-10		
		104-9		
		195-12	1	
159-53433		194	REF	
159-53440	1AMF-1560-327-2690	194	1	
159-53440-3	1AML-1660-376-6317	194-2	REF	
159-53442	1AMF-5355-197-7512	194-2	1	
159-53442-3	1AMF-5355-525-9697	194	1	
159-53445	1AMF-1560-092-4410	194-4	REF	
159-53447	1AMF-1660-694-7123	194-4	1	
159-53447-3	1AMF-1660-652-0244	194	1	
159-53449	1AMF-1560-092-4411	194-5	1	
159-53450	1AMF-1560-657-8700	194	1	
159-53450-3	1AMF-1560-657-8699	194-8	1	
159-53451		194-6	2	
159-53452		194	1	
159-53457	1AMF-1660-397-0755	194	1	
159-53458	1AMF-1560-092-4412	194-9	1	
159-53459	1AMF-1560-092-4413	194-3	1	
159-53461	1AMF-1560-327-2691	194-7	2	
159-53465	1AMF-1660-653-2110	194-1	REF	
159-53466	1AMF-1560-327-2692	192-21	1	
159-53470	1AMF-1560-327-2693	194	REF	
159-53470-10	1AMF-1560-327-2694	193-23	1	
		194	REF	
159-53470-20	1AMF-1560-327-2695	192	1	
		194	REF	
159-53470-30	1AMF-1560-327-2696	193-17	1	
		194	REF	
159-53470-50	1AMF-1560-327-2697	193	1	
		194	REF	
159-53470-60	1AMF-1560-327-2698	193	1	
		194	REF	
159-53500	1AMF-1560-697-9808	191-33	1	
159-53501	1AMF-1560-525-9698	191-27	1	
159-53502	1AMF-1560-092-4414	191-32	1	
159-53504	1AMF-1560-376-6318	191-24	1	
159-53506-15	1AMF-1660-096-9974	192-55	REF	
		196-9	1	
159-53506-5	1AMF-1560-245-9062	191-40	1	
159-53506-9	1AMF-1560-245-9063	190-17	1	
159-53508	1AMF-1560-547-2464	191-39	1	
159-53512	1AMF-1560-312-9983	191-38	1	
159-53513		191	1	
		193		
159-53515		191-31	REF	
159-53515-10		191-31	1	
		193-8		
159-53520	1AMF-1560-035-2470	193-7	1	
159-53521	1AMF-1560-245-9098	190-30	1	
		191-57	REF	
159-53522		193-10	2	
159-53525	1AMF-1560-376-6320	193-20	1	
159-53525-3	1AMF-1560-376-6321	193-15	1	
159-53525-5	1AMF-1560-244-6363	192-48	1	
159-53526-11	1AMF-1560-246-0763	190-6	1	
159-53526-13	1AMF-1560-246-0765	190-5	1	
		193-25	REF	
159-53526-15	1AMF-1560-246-0762	190-4	1	
159-53526-17	1AMF-1560-246-0764	190-7	1	
		193-24	REF	
159-53529-13	1AMF-1560-547-2465	191-36	1	
		197-23	REF	
159-53529-17		191-37	1	
159-53529-19	1AMF-1560-216-1638	190-26	1	
159-53529-21	1AMF-1560-546-4202	191-52	1	
159-53529-5	1AMF-1560-657-8704	193-22	1	
159-53529-7	1AMF-1560-301-7984	192-49	1	
159-53530-1	1AMF-1560-210-9793	82-28	1	
		190-59	REF	
159-53530-2	1AMF-1560-376-6324	82	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	
159-53530-2		1AMF-1560-376-6324	190	REF	
159-53535		1AMF-1560-376-6325	82-13	1	
			190-60	REF	
159-53536		1AMF-1560-376-6326	193-4	1	
159-53536-3			193-9	1	
159-53539			193	1	
159-53540		1AMF-1560-035-2471	190-13	1	
159-53541		1AMF-1560-035-2472	190-14	1	
159-53542		1AMF-1560-244-3783	190-11	1	
159-53542-9			190-16	1	
159-53543		1AMF-1560-692-1883	193-3	1	
159-53544		1AMF-1560-376-6327	103-12	1	
159-53546			191-30	1	
159-53547		1AMF-1560-035-2473	67-30	1	
159-53552		1AMF-1560-326-2760	191	1	
			193		
159-53555		1AMF-1560-251-2227	190-15	1	
159-53556		1AMF-1560-376-6328	70-15	4	
			71-16		
159-53558		1AMF-1560-376-6329	190-23	1	
			193-26	REF	
159-53559		1AMF-1560-327-2702	190-22	2	
159-53562		1AMF-1560-189-1266	70-15	REF	
159-53563-1		1AMF-1560-251-5864	72-5	1	
159-53563-2		1AMF-1560-251-2228	72	1	
159-53564-1		1AMF-1560-506-6275	72-10	1	
159-53564-10		1AMF-1560-506-6276	72	1	
159-53564-2		1AMF-1560-376-6332	72-11	1	
159-53567-1		1AMF-1560-525-9704	82-38	1	
			190-61	REF	
159-53567-2		1AMF-1560-525-9705	82	1	
			190	REF	
159-53568-1		1AMF-1560-376-6334	70-17	2	
			71-18		
159-53568-2		1AMF-1560-376-6335	70	2	
			71		
159-53570-1		1AMF-1560-251-2229	72-8	1	
159-53570-2		1AMF-1560-251-2230	72	1	
159-53571-1			70-17	REF	
159-53571-2			70	REF	
159-53572-1		1AMF-1560-244-3784	72-20	1	
159-53572-2		1AMF-1560-244-3786	72	1	
159-53573-1		1AMF-1560-251-2231	72-32	1	
159-53573-2		1AMF-1560-251-2232	72-33	1	
159-53574		1AMF-5315-664-6929	159-12	4	
159-53574-3			190-12	2	
159-53574-5		1AMF-5315-664-6928	159-5	5	
159-53577		1AMF-1560-250-9570	64-19	2	
			103-7		
			104-5	REF	
159-53578		1AMF-1560-326-2761	192-26	1	
159-53579		1AMF-1560-251-2233	64-17	3	
			103-11		
			104-7		
159-53580			64-19	REF	
			104-5	REF	
159-53582		1AMF-1560-376-6341	64-18	2	
			104-10		
159-53583		1AMF-1560-652-3935	192-42	2	
159-53585		1AMF-1660-024-4393	192	2	
			192-22		
159-53586		1AMF-1560-547-2466	191-55	1	
159-53590			191	1	
159-53591			191-49	1	
159-53592		1AMF-1560-376-6342	190-48	1	
159-53593		1AMF-1560-194-3136	190-49	2	
			190-51		
159-53594		1AMF-1560-323-7229	190-50	1	
159-53595		1AMF-1560-657-8705	190-42	1	
159-54013-1			13	NP	
			40		
159-54013-2			13	NP	
			40		
159-54014-1			7	NP	
			40		
159-54014-2			7	NP	
			40		
159-54017		1AMF-1560-657-8706	254-1	2	
			266A-1		
159-54026			42-46	REF	
			46-28	NP	
			157		

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	
159-54030			62-8	NP	
			152		
159-54031			58	NP	
			144		
159-54032			83-4	NP	
			157		
159-54033			55-1	NP	
			157		
159-54034			51	NP	
			153		
159-54037			1	NP	
			150		
159-54038-1			7-5	NP	
			8-5		
			40		
			41		
159-54038-2			7	NP	
			8		
			40		
			41		
159-54039			252	NP	
159-54040			220	NP	
			252		
159-54050		1AMF-1560-653-3727	146-11	1	
			166	REF	
			178-46	REF	
			166A	REF	
159-54051			166-12	1	
			166A-14	REF	
159-54054-3			157-38	REF	
			214-26	REF	
			214-68	REF	
			219-31	REF	
159-54055		1AMF-5340-654-2981	155-22	2	
			156-22		
159-54056		1AMB-5310-208-9756	155-19	3	
			156-19		
			205-8		
159-54057		1AMF-1560-373-6452	155-18	2	
			156-18		
159-54058		1AMF-1560-376-6344	155-25	2	
			156-25		
159-54059		1AMF-1560-652-3934	117-53	1	
159-54061		1AMF-1560-657-8707	161-22	1	
159-54062		1AMF-1560-326-2762	148-19	2	
			149-24		
			161	REF	
159-54068-3		1AMF-1560-247-4672	54-12	2	
			54-18		
			146-59	REF	
			147-49	REF	
159-54068-5		1AMF-1560-247-4673	54-19	1	
			146-60	REF	
			147-50	REF	
159-54069		1AMF-1560-091-8612	163-25	2	
159-54070			146-10	1	
			163	REF	
159-54071		1AMF-1560-187-8419	163	1	
159-54072		1AMF-1560-326-2763	163-35	1	
159-54073		1AMF-1560-098-8062	163	1	
159-54074			163	1	
159-54075			262-13	1	
			266		
159-54076			266-1	1	
159-54077			266-6	1	
159-54080			148-22	1	
			163	REF	
159-54081			163	1	
159-54082		1AMF-1560-326-2764	163	1	
159-54083		1AMF-1560-098-8063	163	1	
159-54084		1AMF-1560-657-8708	163	1	
159-54085			144-31	1	
			161	REF	
159-54085-10			151-28	1	
			161	REF	
159-54086		1AMF-1560-326-2765	161-9	1	
159-54086-10			161	1	
159-54087			167-15	3	
			168-18		
			168-55		
159-54088			167-10	3	
			168-16		
			168-46		

PART NUMBER	STOCK NO	FIGURE AND INDEX	QTY PER ART	E F
159-54090	1AMF-1560-657-8709	146-12	1	
		168	REF	
159-54090-10	1AMF-1560-657-8710	147-8	1	
		168	REF	
159-54091	1AMF-1560-326-2766	168-64	1	
159-54091-10	1AMF-1560-657-8711	168	1	
159-54092		167-7	6	
		168-14		
		168-59		
		172-15		
159-54093		167-17	3	
		168-20		
		168-57		
159-54094	1AMB	167-12	3	
		168-22		
		168-52		
159-54095	1AMB-1560-326-2662	156	1	
159-54097	1AMB-1560-336-7583	156-36	20	
		160-16		
		161-15		
		167-9		
		168-24		
		168-45		
		172-17		
159-54098	3320	167-14	3	
		168-25		
		168-54		
159-54099	1AMF-1560-166-9025	214-23	2	
		219-33		
159-54100		168-37	1	
159-54101	1AMF-1560-326-2767	148-18	2	
		149-23	REF	
		168	REF	
159-54102		144-39	1	
159-54103	1AMF-1560-547-2467	144-51	1	
159-54104		144-49	1	
159-54105		144-51	1	
159-54107		112	1	
159-54108		266-10	1	
159-54109	1AMF-1560-657-8712	150-35	1	
159-54109-10		151-14	1	
159-54111		150-29	1	
		169	REF	
159-54112		169-36	1	
159-54114	1AMF-1560-326-2768	150-32	1	
159-54114-10		151-13	1	
159-54115		169-12	1	
159-54116	1AMF-1560-657-8713	169-10	1	
159-54117		169-13	1	
159-54118		169-20	1	
159-54118-10	1AMF-1560-566-5941	169	1	
159-54119		169-31	1	
159-54119-10		169	1	
159-54121-3	1AMF-1560-657-8714	155-21	2	
		156-21		
159-54121-5	1AMF-1560-657-8715	155-23	2	
		156-23		
159-54122		169-32	1	
159-54122-10		169	1	
159-54123		169-33	1	
159-54124		169-11	1	
159-54130	1AMF-1560-326-2769	153-5	2	
		154-5		
159-54132-3	1AMF-5975-376-6345	252-4	1	
159-54132-5	1AMF-5975-376-6346	252-3	1	
159-54133-3	1AMF-5975-284-6457	252-5	1	
159-54133-5	1AMF-5975-284-6459	144-1	2	
		145-1		
159-54133-7		144-4	2	
		145-4		
159-54134		252-21	1	
159-54135	1AMF-1560-692-7574	144-11	2	
		145-10		
		162	REF	
159-54135-10		145	1	
		162	REF	
159-54137	1AMF-1560-035-2474	162-8	1	
159-54138	1AMF-1560-328-3282	162-1	1	
159-54140	1AMF-1560-307-2260	252-16	1	
159-54141		155-50	1	
		170	REF	
159-54143		170-8	1	
159-54146	1AMF-1560-657-8716	153-17	2	

PART NUMBER	STOCK NO	FIGURE AND INDEX	QTY PER ART	E F
159-54146	1AMF-1560-657-8716	154-17		
159-54151		157-21	1	
159-54151-10	1AMF-1560-657-8717	158-28	1	
159-54153		157-15	1	
159-54154	1AMF-1560-187-8420	16-14	1	
159-54155	1AMF-1560-247-4674	40-20	2	
		41-18		
159-54156-3		20-1	4	
		21-1		
159-54156-5		20-2	4	
		21-2		
159-54159	1AMF-1560-250-9469	58-13	1	
159-54159-5		58-16	1	
159-54159-7		58-14	1	
159-54159-9		58-15	1	
159-54160	1AMF-1560-310-9970	54-11	2	
		54-17		
		148-53	REF	
		149-37	REF	
159-54161		54-16	1	
		146-58	REF	
159-54165		263-16	1	
159-54166	1AMF-1560-035-2475	214-34	1	
159-54167	1AMF-1560-326-2770	214-31	1	
159-54168	1AMF-1560-030-4903	214-37	1	
159-54169	1AMF-1560-166-9550	214-38	1	
159-54170		163-17	2	
159-54171		214-39	1	
159-54172	1AMF-1560-376-6350	213-14	1	
159-54174		213-11	1	
159-54175	1AMF-1560-247-4675	153-16	2	
		154-16		
159-54176	1AMF-1560-035-2476	214-14	1	
159-54177		214-40	1	
159-54178	1AMF-1560-091-8613	214	1	
159-54179	1AMF-1560-294-0132	214-30	1	
159-54180	1AMF-1560-525-9709	200-48	2	
159-54181	1AMF	200-43	2	
159-54182	1AMF-1560-342-8638	153-15	2	
		154-15		
159-54183	1AMF-1560-244-9820	204-19	2	
159-54187-1	1AMF-1560-657-8718	262-7	3	
		2668-4		
159-54187-2		262-8	1	
159-54189		263-57	1	
159-54190		262-3	1	
		263	REF	
159-54191		263-7	1	
159-54193		263-8	1	
159-54200		157-11	2	
		158-21		
159-54205	1AMF-1560-511-4876	66-33	1	
159-54206	1AMF-1560-336-7629	84-40	1	
159-54208	1AMF-1560-187-8421	46-21	1	
159-54210	1AMF-1560-366-5942	66-42	1	
159-54211	1AMF-1560-657-8719	66-45	2	
159-54211-11	1AMF-1560-525-9710	83-38	2	
159-54212	1AMF-1560-344-1744	66	1	
159-54214	1AMF-1560-024-4394	205	REF	
		211-3	2	
159-54215-1	1AMF-1560-676-1362	198-20	1	
		205	REF	
159-54215-2	1AMF-1560-657-8720	198	1	
		205	REF	
159-54216	1AMF-1560-525-9711	200-57	1	
159-54217-11		200-51	1	
159-54218		206-52	1	
159-54219	1AMF-1560-035-2477	204-20	1	
159-54220-3	1AMF-1560-251-5214	204-12	1	
159-54221	1AMF-1560-376-6352	206-40	2	
159-54224	1AMF-1560-657-8721	150-27	1	
159-54225-3		150-3	1	
159-54225-5	1AMF-1560-304-3251	150-17	1	
159-54226-1	1AMF-1560-525-9713	205-4	1	
159-54226-2	1AMF-1560-525-9714	205	1	
159-54228	1AMF-1560-326-2771	198-11	2	
159-54229	1AMF-1560-525-9715	205-5	2	
159-54230	1AMF-1560-304-3252	205-20	2	
159-54232	1AMF-1560-525-9716	205	1	
159-54234	1AMF-1560-327-2705	205	1	
159-54235	1AMF-1560-327-2706	205	1	
159-54240		58-7	NP	
		159		

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-54241		1AMF-1560-376-6353	159-6	1	
159-54242		1AMF-1560-376-6354	59-59	1	
			60-38		
159-54245-11		1AMF-1560-336-1228	159-13	2	
159-54245-3		1AMF-1560-570-1818	159-21	2	
159-54245-5		1AMF-1560-336-1229	159-7	1	
159-54245-7			159-14	1	
159-54245-9			159-15	1	
159-54247		1AMF-1560-244-6402	59-48	4	
			60-28		
			61-13A		
159-54248		1AMF-1560-376-6355	60-27	2	
			61-13		
159-54250		1AMF-1560-657-8723	159-4	1	
159-54251		1AMF-1560-327-2707	211-68	1	
159-54252		1AMF-1560-376-6356	159	2	
159-54256		1AMF-1560-199-8299	211-65	1	
159-54266			263-42	2	
			2668-16		
159-54268			263-32	2	
159-54271		1AMF-1560-525-9717	200-50	1	
159-54272-5			213-32	2	
159-54275		1AMF-1560-304-3253	219-28	1	
159-54276		1AMF-1560-525-9718	214-36	2	
			219-27		
159-54277-7			112-9	REF	
159-54277-9			112-9	2	
159-54278			112-16	REF	
159-54282-3			112-13	REF	
159-54282-5		1AMF-1560-307-2261	112-13	2	
159-54283		1AMF-1560-376-6357	39-24	2	
			214-12		
159-54284-3		1AMF-1560-532-1709	213-33	1	
159-54285			263-26	1	
159-54286			263-51	1	
159-54287			263-52	1	
159-54291			112	2	
159-54292			265-19	1	
159-54295		1AMF-1560-035-2478	112-16	2	
159-54297			153-60	4	
			154-59		
			155-13		
			156-13		
159-54298		1AMF-1560-547-2468	144-38	1	
159-54299			266-2	1	
159-54300			262-11	1	
159-54301		1AMF-5930-477-9635	205-16	1	
			215	REF	
159-54301-10		1AMF-5930-694-1709	205	1	
			215	REF	
159-54302		1AMF-5930-477-9636	201-17	3	
			215	REF	
159-54302-10		1AMF-5930-694-1710	201	3	
			215	REF	
159-54303		1AMF-1560-244-4747	215	3	
159-54304-3		1AMF-1560-035-2479	215	3	
159-54304-5		1AMF-1560-035-2480	215-10	3	
159-54305		1AMF-1560-525-9720	215-14	3	
159-54306			262-12	1	
159-54307			266-3	1	
159-54311		1AMF-1560-263-7909	159-19	2	
159-54314		1AMF-1560-210-9794	213-54	REF	
			214-72	1	
159-54315		1AMF-1560-525-9722	214-69	1	
159-54316		1AMF-1560-525-9723	214-70	1	
159-54317		1AMF-1560-525-9724	214-57	1	
159-54318		1AMF-1560-024-4396	214-58	1	
159-54319		1AMF-1560-247-3036	214-59	1	
159-54320		1AMF-1560-247-3035	214-71	1	
159-54321		1AMB-5340-644-9800	205	2	
159-54322			213	1	
			214	REF	
159-54322-10			213	1	
			214	REF	
159-54324			213-18	1	
159-54324-3		1AMF-1560-657-8724	213-19	1	
159-54325		1AMF-1560-657-8725	146	2	
			147-6		
			163	REF	
159-54325-10			147	1	
			163	REF	
159-54326		1AMF-1560-304-9748	163-36	1	
159-54327		1AMF-1560-035-2481	163-34	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-54329		1AMF-1560-332-3129	163-39	1	
159-54330			148	2	
			149-32		
			163	REF	
159-54330-10			149	1	
			163	REF	
159-54331		1AMF-1560-326-2773	163	1	
159-54332		1AMF-1560-035-2482	163	1	
159-54334		1AMF-1560-326-2774	163	1	
159-54335		1AM8-1560-694-4219	163-38	2	
159-54338			163-13	2	
159-54339		1AMF-5355-668-5393	75-45	2	
			210-24		
159-54342		1AMF-1560-244-9794	214-49	1	
159-54343		1AMF-1560-525-9725	214-53	1	
159-54344-3		1AMF-1560-187-8422	209-23	1	
			210	REF	
159-54344-5		1AMF-1560-525-9726	209-23	REF	
159-54345		1AMF-1560-524-2222	210-26	1	
159-54349		1AMF-1560-657-8732	210-27	1	
159-54350			146	1	
			166	REF	
			166A	REF	
159-54351		1AMF-1560-327-2709	166	2	
			166A		
159-54351-10		1AMF-1560-326-2775	164-14	1	
			165-9		
159-54353-1		1AMF-1560-525-9727	205-21	1	
159-54353-2		1AMF-1560-525-9728	205	1	
159-54354		1AMB-5340-320-5706	205-9	2	
159-54355-3		1AMB-5306-207-9584	205	2	
159-54355-5		1AMB-5306-298-2743	205	2	
159-54355-7		1AMF-5306-655-6103	205-7	2	
159-54355-9		1AMB-5306-639-1629	205-11	2	
159-54356		1AMF-1560-376-6360	205-6	2	
159-54360		1AMF-1560-093-3949	150-24	2	
			151-7		
159-54362		1AMF-1560-304-3254	150-22	2	
			151-5		
159-54364			160	2	
			161-13		
159-54365			168-61	1	
159-54366			153-33	2	
			154-33		
159-54366-3			154	1	
159-54368			40-41	3	
			151-45		
159-54370			40-42	3	
			151		
159-54373		1AMB-1560-320-5707	215	3	
159-54374		1AMF-1560-327-2711	252-34	2	
159-54376		1AMF-1560-098-8064	7	2	
			8-7		
159-54377		1AMF-1560-199-4372	7-10	4	
			8-9		
159-54378		1AMF-1560-185-8695	7-9	4	
			8-8		
159-54379-5		1AMF-1560-098-8065	7-8	1	
159-54379-7			7-7	1	
159-54387			262-4	1	
159-54439		1AMF-1560-657-8733	54	1	
159-54440		1AMF-1560-307-2262	209-24	1	
159-54443		1AMF-1560-326-2778	210-34	1	
159-54449		1AMF-1560-332-0979	7-12	2	
			8		
159-54460		1AMF-1560-657-8734	232-52	1	
159-54461		1AMF-1560-307-2263	232-47	1	
159-54530			62	NP	
			152		
159-54531			58	NP	
			144		
159-55003		1AMF-1560-546-4203	86-14	1	
159-55007		1AMF-1560-312-9985	65-44	1	
159-58005			62	NP	
			122		
			124		
			130		
			138		
			139		
			142		
159-58006			56	NP	
			124		
			130		

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
59-58006			139		
			249		
59-58006-3			124-1	1	
159-58006-5			124	AR	
159-58006-7		1AMF-1560-326-2779	124	1	
159-58007			220	NP	
			249		
159-58007-3			220	NP	
			249		
159-58008			62-9	NP	
			121		
			124		
			130		
			138		
			139		
			142		
159-58010			58-8	NP	
			138		
159-58011			83-1	NP	
			120		
			134		
			135		
			136		
159-58013-1			13	NP	
			14		
			37		
159-58013-2			13	NP	
			14		
			37		
159-58014			62-10	NP	
			121		
			122		
			138		
			141		
			142		
159-58016			62-11	NP	
			250		
159-58017			62-12	NP	
			116		
			119		
			120		
			130		
			131		
			136		
			137		
			141		
			142		
159-58018			51	NP	
			249		
159-58019			50	NP	
			119		
			120		
			131		
			134		
			136		
159-58021			51	NP	
			137		
			139		
159-58022			51	NP	
			124		
			130		
			139		
159-58023			3-34	NP	
			38		
			39		
			139		
59-58028		1AMF-1560-613-4805	216-15	2	
9-58030		1AMF-1650-525-9729	211-47	1	
59-58032		1AMF-1650-376-6687	68	REF	
			131-9	1	
9-58035		1AMF-1650-345-8950	133-21	1	
9-58036			111-41	REF	
			137-1	4	
			138-15		
59-58041			123	REF	
			134-38	1	
59-58042			121-16	1	
9-58042-3			121	2	
			122-16		
9-58043			131-38	1	
59-58044-3			250-36	1	
159-58045			78-38	1	
			119-51	REF	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-58045			134-49	REF	
159-58045-3			78	1	
159-58046			39-7	1	
			119-59	REF	
			120-51	REF	
			131-49	REF	
159-58048			38-38	REF	
			39-25	1	
			119-58	REF	
			120-50	REF	
			130-44	REF	
159-58049			124-38	REF	
159-58049-3			124-38	REF	
			125-28	2	
			126-2		
			127		
159-58050			131-17	1	
159-58051		1AMF-1560-657-8737	142	REF	
159-58051-10		1AMF-1560-525-9733	142-16	1	
			143	REF	
159-58051-5		1AMF-1560-525-9734	142	1	
			143	REF	
159-58052			124-39	REF	
			125-31	1	
			127	REF	
159-58052-3			126-1	1	
			127	REF	
159-58053			69-20	REF	
			128	REF	
			134-5	1	
159-58053-3			128	REF	
			134	1	
159-58054			121-42	1	
			123	REF	
159-58054-3			122-18	1	
			123	REF	
159-58057-1			140-5	1	
159-58057-2			140-6	1	
159-58057-3			140-7	1	
159-58058			141-39	1	
159-58059			121	REF	
			124-36	REF	
			125		
			139-34	1	
159-58059-3			121	REF	
			124	REF	
			125	REF	
			139	1	
159-58059-5			121	REF	
			124	REF	
			125	REF	
			139	1	
159-58060			249-5	REF	
159-58061		1AMF-1560-657-8738	138-49	REF	
			140-32	2	
159-58062			116-71	REF	
			135-11	1	
159-58062-3			116-71	REF	
159-58062-5		1AMF-1560-657-8739	135	1	
159-58063			78-29	1	
			136	REF	
159-58065			125-2	1	
159-58065-3			124-34	2	
			126-4		
			129	REF	
159-58065-5			124-35	1	
			129	REF	
159-58066			125-33	1	
			127	REF	
159-58066-3			126-3	1	
			127	REF	
159-58067			125-36	1	
159-58068			119-36	1	
159-58069			122-7	REF	
			124	REF	
			126	REF	
			139	1	
159-58069-10			122	REF	
			126	REF	
			139	1	
159-58069-20			122	REF	
			126	REF	
			139	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-58071			135-15	1	
159-58072			135-27	1	
159-58110		1AMF-1560-339-8167	119-48	1	
159-58111		1AMF-1560-187-8424	119-49	1	
159-58112		1AMF-1560-187-8426	119-2	2	
159-58166		1AMF-1560-185-6222	143-40	1	
159-58167		1AMF-1650-376-6362	143-41	2	
159-58168		1AMF-1650-313-4944	143-39	1	
159-58169			143-26	1	
159-58172			143-46	1	
159-58176			143-47	1	
159-58176-10			143	1	
159-58179		1AMF-1650-185-6219	143-42	1	
159-58180			143-43	1	
159-58193		1AMF-1560-214-9362	141-50	1	
159-58194-3		1AMF-1560-035-2483	141-18	1	
159-58194-5		1AMF-1560-035-2484	141-16	1	
159-58196			141-23	1	
159-58197		1AMF-1650-199-4373	141-34	1	
159-58197-3			141-38	1	
159-58198		1AMF-1560-328-8742	141-4	1	
159-58199			141-26	1	
159-58200		1AMF-1560-657-8740	141-13	1	
159-58200-3			141	1	
159-58210			78-40	1	
159-58218		1AMF-1560-566-5943	66	1	
159-58221		1AMF-1560-649-5660	39-30	1	
159-58223		1AMF-1560-199-4374	39-32	1	
159-58227		1AMF-1560-199-4315	232-41	2	
			235-15		
159-58227-3			232-44	2	
			235-18		
159-58228			39-46	REF	
159-58229		1AMF-1650-326-2782	39-13	1	
159-58234		1AMF-1560-657-8741	39-42	REF	
			116-53	1	
159-58235		1AMF-1560-199-4317	116-47	1	
159-58237			67-49	2	
159-58237-5			116-61	1	
159-58242		1AMF-1560-657-8742	116-62	1	
159-58247-1		1AMF-1560-654-0148	37-9	3	
159-58247-2		1AMF-1560-657-8403	37	3	
159-58248		1AMF-1560-327-2712	37-12	2	
159-58251			140-37	1	
159-58251-13			140	1	
159-58252			140-27	1	
159-58253			140-28	2	
159-58254			140-29	2	
159-58255		1AMF-1560-199-4316	138-37	1	
159-58258			65	1	
			138-48	REF	
159-58261		1AMF-1560-328-3306	138-38	1	
159-58262			65	1	
159-58263			141-29	1	
159-58264			141-5	1	
159-58265		1AMF-1560-327-2713	141-7	1	
159-58266			141-6	1	
159-58267			141-9	1	
159-58268			141-8	1	
159-58269		1AMF-1560-244-9795	138-44	1	
159-58274		1AMF-1560-096-4973	138-22	2	
159-58318			82-9	2	
159-58323-3		1AMF-1650-304-3255	143-48	1	
159-58323-5		1AMF-1560-327-2714	143	1	
159-58324		1AMF-1560-306-3921	134-22	4	
			134-23		
			134-24		
159-58326		1AMF-1560-187-9964	250-3	2	
159-58334		1AMF-1560-657-8404	138-46	REF	
			140	1	
159-58337		1AMF-1560-657-8743	130-36	3	
159-58340		1AMF-1560-185-6220	136-28	1	
159-58343		1AMF-1560-506-6279	132-14	1	
159-58344		1AMF-1560-035-2485	132-15	1	
159-58345		1AMF-1560-035-2486	132-16	1	
159-58350			116-56	1	
159-58350-10		1AMF-1560-627-4268	116	1	
159-58352		1AMF-1560-341-0337	116-60	1	
159-58352-3		1AMF-1560-657-8744	116	1	
159-58364		1AMF-1560-304-9749	124-16	2	
159-58400		1AMF-4730-376-6703	211-43	3	
			216-14		
159-58403		1AMF-1560-657-8745	134-45	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-58410-1		1AMF-1560-696-1423	257-2	REF	
159-58410-2		1AMF-1560-692-1884	137	REF	
159-58410-3		1AMF-1560-328-8765	138	1	
159-58410-4		1AMF-1560-328-8785	138	1	
159-58411		1AMF-1560-657-8746	119-39	1	
159-58412-1		1AMF-1560-312-9986	38-1	1	
159-58412-10		1AMF-1560-330-6877	38	1	
159-58412-11		1AMF-1560-330-6879	130-3	1	
159-58412-12		1AMF-1560-330-6882	130-6	1	
159-58412-2		1AMF-1560-657-8491	38-2	1	
159-58412-3		1AMF-1560-696-1424	38	1	
159-58412-4		1AMF-1560-692-1885	38	1	
159-58412-5		1AMF-1560-692-1886	38-5	REF	
159-58412-6		1AMF-1560-692-1887	131-10	REF	
159-58412-7		1AMF-1560-506-6280	38-6	2	
159-58412-8		1AMF-1560-506-6281	38	2	
159-58412-9		1AMF-1560-330-6883	38	2	
159-58415			143-27	1	
159-58417		1AMF-1650-210-9795	143-25	1	
159-58418		1AMF-1650-694-4237	143-36	1	
159-58420		1AMF-1560-247-9818	117	1	
159-58421		1AMF-1560-692-1888	133-18	1	
159-58422		1AMF-1560-560-4212	65	1	
			138-47	REF	
159-58423		1AMF-1560-246-0771	138	1	
159-58426			38-10	8	
159-58432			140-38	1	
159-58433		1AMF-1560-310-1289	39-1	1	
159-58434		1AMF-1560-188-2327	39-43	REF	
			117-34	1	
159-58442-9		1AMF-1650-376-6705	133-1	1	
159-58628		1AMF-1650-307-2264	38-39	REF	
			198-39	2	
159-58630		1AMF-1650-345-8989	130-46	REF	
			211-40	1	
159-58632			131-1	1	
159-58635			79-55	REF	
			133	REF	
			134-9	1	
159-58806-11		1AMF-1560-026-2275	124-10	1	
159-58806-13		1AMF-1560-304-3256	124-9	1	
159-58806-15		1AMF-1560-303-2723	124-19	1	
159-58806-17		1AMF-1560-613-8400	124-18	1	
159-58806-19		1AMF-1560-569-9847	124-17	1	
159-58806-25		1AMF-1560-308-6396	139-36	1	
159-58806-27		1AMF-1560-510-3705	130-15	1	
159-58806-7		1AMF-1560-547-2469	130-16	1	
159-58806-9		1AMF-1560-304-3257	124-11	1	
159-58807-11		1AMF-1560-026-2276	250-2	1	
159-58807-23		1AMF-1560-327-2716	249-28	1	
159-58807-25		1AMF-1560-092-4415	249-30	1	
159-58807-27		1AMF-1560-327-2717	250-5	1	
159-58807-29		1AMF-1560-026-2277	250-27	1	
159-58807-3		1AMF-1560-092-4416	249-32	1	
159-58807-31		1AMF-1560-336-7630	249-29	1	
159-58807-33		1AMF-1560-327-2801	250-41	1	
159-58807-35		1AMF-1560-327-2718	250-35	1	
159-58807-37		1AMF-1560-327-2719	250-56	1	
159-58807-39		1AMF-1560-327-2720	250-55	1	
159-58807-41		1AMF-1560-328-3308	126-13	1	
159-58807-45		1AMF-1560-657-8750	125-32	1	
159-58807-47		1AMF-1560-657-8751	125-34	2	
159-58807-5		1AMF-1560-304-9750	250-8	1	
159-58807-7		1AMF-1560-092-4417	249-31	1	
159-58807-9		1AMF-1560-545-6593	142-20	1	
159-58808-11		1AMF-1560-533-2238	121-11	1	
159-58808-13			121-9	1	
159-58808-15		1AMF-1560-506-6282	121-10	1	
159-58808-17			140-3	1	
159-58808-19		1AMF-1560-657-8752	140-1	1	
159-58808-21		1AMF-1560-545-6594	121-1	2	
			122-1		
159-58808-23			121-7	1	
159-58808-25			121-2	2	
			122-3		
			142-32	REF	
159-58808-27		1AMF-1560-216-1639	139-26	1	
159-58808-29		1AMF-1560-216-1640	139-25	1	
159-58808-31			139-15	1	
159-58808-33			139-17	1	
159-58808-35			139-13	1	
159-58808-37			139-11	1	
159-58808-39			124-29	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
59-58808-41			124-25	1	
59-58808-43			124-28	1	
59-58808-45		1AMF-1560-568-2717	124-23	1	
59-58808-47			130-29	1	
59-58808-49		1AMF-1560-216-1641	130-28	1	
159-58808-5		1AMF-1560-570-1819	125-29	1	
159-58808-51			124-27	1	
159-58808-53		1AMF-1560-508-8581	124-24	1	
159-58808-55			119-56	REF	
			121-8	1	
159-58808-59		1AMF-1560-657-8753	139-9	1	
159-58808-61		1AMF-1560-657-8754	139-8	1	
159-58808-63			125-30	1	
159-58808-67		1AMF-1560-026-2278	125-1	1	
159-58808-69		1AMF-1560-657-8755	142-26	1	
159-58808-7			125-35	1	
159-58808-71			125	1	
159-58808-75		1AMF-1560-312-9988	130-26	1	
159-58808-77			130-25	1	
159-58810-11			137-42	1	
159-58810-13		1AMF-1560-092-4418	139-39	1	
159-58810-15		1AMF-1560-613-8399	139-1	1	
159-58810-17		1AMF-1560-547-2470	142-24	1	
159-58810-21		1AMF-1560-216-1642	131-14	1	
159-58810-25			39-39	1	
			131-47	REF	
159-58810-27		1AMF-1560-547-2471	38-33	1	
159-58810-29		1AMF-1560-657-8757	38-32	1	
159-58810-3		1AMF-1560-547-2472	137-33	1	
159-58810-31			119-31	1	
159-58810-33		1AMF-1560-216-1643	137-26	1	
159-58810-35		1AMF-1560-216-1644	137-31	1	
159-58810-37		1AMF-1560-533-2239	119-50	1	
159-58810-39		1AMF-1560-547-2473	137-41	1	
159-58810-41		1AMF-1560-216-1645	119-34	1	
159-58810-43		1AMF-1560-312-9989	136-12	1	
159-58810-5		1AMF-1560-216-1646	137-32	1	
159-58810-51		1AMF-1560-508-8582	120	1	
159-58810-53			125-9	1	
159-58810-55		1AMF-1560-657-8758	125-25	1	
159-58810-57			125-26	1	
159-58810-59			125-27	1	
159-58810-61		1AMF-1560-657-8759	125	1	
159-58810-63		1AMF-1560-216-1647	119-46	1	
159-58810-65		1AMF-1560-216-1648	119-47	1	
159-58810-67		1AMF-1560-547-2474	119-43	1	
159-58810-69		1AMF-1560-547-2475	119-45	1	
159-58810-7		1AMF-1560-216-1649	137-24	1	
159-58810-75			137	1	
159-58810-9			137-19	1	
159-58811-11		1AMF-1560-307-2265	131-34	1	
159-58811-13			131-36	1	
159-58811-15		1AMF-1560-570-4579	131-35	1	
159-58811-17			120-39	1	
159-58811-19			120-42	1	
159-58811-21			120-41	1	
159-58811-23			120-43	1	
			134-51	REF	
159-58811-25		1AMF-1560-216-1650	120-30	1	
159-58811-27		1AMF-1560-347-3328	134-37	1	
159-58811-29			134-36	1	
159-58811-31		1AMF-1560-347-3329	134-27	1	
159-58811-33		1AMF-1560-347-3330	134-25	1	
159-58811-35		1AMF-1560-347-3331	134-6	1	
159-58811-37		1AMF-1560-312-9990	134-2	1	
159-58811-39		1AMF-1560-347-3332	134-3	1	
159-58811-41		1AMF-1560-570-4580	134-4	1	
159-58811-43		1AMF-1560-533-2240	120-46	1	
			134-50	REF	
159-58811-45			135-4	1	
159-58811-47			120-40	1	
159-58811-49		1AMF-1560-692-1889	136-19	1	
159-58811-51			135-1	1	
159-58811-53		1AMF-1560-301-7987	136-29	1	
159-58811-55		1AMF-1560-310-1290	120-21	1	
159-58811-57		1AMF-1560-310-1291	120-23	1	
159-58811-59			135-14	1	
159-58811-61			135-25	1	
159-58811-63			135-23	1	
159-58811-69			135-26	1	
159-58811-71			135	1	
159-58811-9			131-37	1	
159-58813-10			37	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-58813-11		1AMF-1560-216-1651	37-34	1	
159-58813-13			37-38	1	
159-58813-15			37-42	1	
159-58813-17		1AMF-1560-511-4877	38-37	1	
159-58813-19		1AMF-1560-307-2266	38-16	1	
159-58813-21			38-23	1	
159-58813-23			38-27	1	
159-58813-25			38-30	1	
159-58813-27			38-31	1	
159-58813-29			38-21	1	
159-58813-3		1AMF-1560-613-8386	2	2	
			37-5		
159-58813-31			38-28	1	
159-58813-33			37-25	1	
159-58813-35		1AMF-1560-307-2267	37	1	
159-58813-37		1AMF-1560-307-2268	38	1	
159-58813-39		1AMF-1560-336-7631	38	1	
159-58813-4		1AMF-1560-333-6928	2	2	
			37		
159-58813-41			38	1	
159-58813-43			38	1	
159-58813-5		1AMF-1560-654-0147	2	2	
			37-13		
159-58813-6		1AMF-1560-657-8762	2	2	
			37		
159-58813-61			38	1	
159-58813-63			38	1	
159-58813-65		1AMF-1560-216-1652	37	1	
159-58813-67		1AMF-1560-613-8383	37	1	
159-58813-7			37-28	1	
159-58813-8		1AMF-1560-320-6164	37	1	
159-58813-9			37-30	1	
159-58814-13			141-58	REF	
159-58814-17			121-44	1	
159-58814-19		1AMF-1560-092-4419	142-1	1	
159-58814-21			142-2	1	
159-58814-23		1AMF-1560-508-8583	142-4	1	
159-58814-25		1AMF-1560-306-3922	142-7	1	
159-58814-5		1AMF-1560-092-4420	142-5	1	
159-58814-7		1AMF-1560-092-4421	142-6	1	
159-58814-9		1AMF-1560-506-6284	142-9	1	
159-58816-15		1AMF-1560-308-6397	126-15	1	
159-58816-17			126-8	1	
159-58816-19			126-7	1	
159-58816-21			126-9	1	
159-58816-23			126-10	1	
159-58816-25		1AMF-1560-657-8764	126-12	1	
159-58816-27			126-14	1	
159-58816-29		1AMF-1560-613-8499	140-4	1	
159-58816-3		1AMF-1560-092-4422	122-17	1	
159-58816-31		1AMF-1560-613-8477	140-2	1	
159-58816-33		1AMF-1560-301-7988	122-5	1	
159-58816-35			139-12	1	
159-58816-37			139-14	1	
159-58816-39			122-6	1	
159-58816-41		1AMF-1560-560-4213	124	1	
159-58816-43			124	1	
159-58816-45			124	1	
159-58816-47		1AMF-1560-511-4878	139	1	
159-58816-49		1AMF-1560-301-7989	139	1	
159-58816-5		1AMF-1560-301-7990	122-19	1	
159-58816-51		1AMF-1560-563-6633	122-20	1	
159-58816-53			126	1	
159-58816-55		1AMF-1560-308-6398	124-32	1	
159-58816-57		1AMF-1560-545-6595	124-33	1	
159-58816-59		1AMF-1560-301-7991	124-31	1	
159-58816-61		1AMF-1560-545-6596	124-30	1	
159-58816-63		1AMF-1560-306-3923	130	1	
159-58816-65		1AMF-1560-301-7992	130	1	
159-58816-67		1AMF-1560-301-7993	139	1	
159-58816-69		1AMF-1560-301-7994	139	1	
159-58816-7		1AMF-1560-563-6636	122-15	1	
159-58816-71		1AMF-1560-301-7995	139	1	
159-58816-73		1AMF-1560-301-7996	130	1	
159-58816-75			124	1	
159-58816-9		1AMF-1560-307-2269	126	1	
159-58817-11		1AMF-1560-506-6285	131-29	1	
159-58817-13			136-13	1	
159-58817-15		1AMF-1560-301-7997	131-13	1	
159-58817-17		1AMF-1560-301-7998	131-22	1	
159-58817-19			131-21	1	
159-58817-25			120-2	1	
159-58817-27		1AMF-1560-306-3924	120-20	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-58817-29		1AMF-1560-570-4581	39-40	1	
			120-49	REF	
159-58817-3		1AMF-1560-301-7999	134-43	1	
159-58817-31			119-32	1	
159-58817-33			120-1	1	
159-58817-37		1AMF-1560-301-8000	136-17	1	
159-58817-39			136-11	1	
159-58817-41			136-2	1	
159-58817-43		1AMF-1560-525-9735	119-5	1	
159-58817-45			119-22	1	
159-58817-47		1AMF-1560-301-8001	38-36	1	
			119-54	REF	
159-58817-49		1AMF-1560-570-4582	39-41	1	
			119-55	REF	
159-58817-5		1AMF-1560-301-8002	134-44	1	
159-58817-51		1AMF-1560-301-8003	119-33	1	
159-58817-53		1AMF-1560-301-8004	136-3	1	
159-58817-55			136-6	1	
159-58817-57		1AMF-1560-570-4583	136-8	1	
159-58817-59			136-10	1	
159-58817-63		1AMF-1560-545-6597	119-4	1	
159-58817-67		1AMF-1560-306-3925	141-56	1	
159-58817-69		1AMF-1560-304-3258	141-52	1	
159-58817-71			38-34	1	
			130-43	REF	
159-58817-73		1AMF-1560-560-4214	130-37	1	
159-58817-75			38-35	1	
			130-42	REF	
159-58817-77		1AMF-1560-560-4215	130-38	1	
159-58817-79		1AMF-1560-301-8005	38-37	1	
			120-48	REF	
159-58817-9			131-30	1	
159-61001			259-8	2	
			260	REF	
159-61002			260-41	2	
			261	REF	
159-61002-101		1AMF-1560-035-2487	260	1	
			261	REF	
159-61003-5		1AMF-1560-187-9965	261-29	2	
159-61004		1AMF-1560-187-9966	261-46	2	
159-61006		1AMF-1560-187-9967	259-4	2	
			266C-6		
159-61007		1AMF-1560-187-9968	260-8	2	
159-61007-15			260-10	4	
159-61008			260-13	2	
159-61008-11			260-17	1	
159-61008-12			260-18	1	
159-61008-13			260-14	2	
159-61008-14			260-15	2	
159-61010		1AMF-5306-302-9026	261-25	6	
159-61018			261-55	4	
159-61018-3			261-59	4	
159-61018-5			261-58	4	
159-61018-7			261-57	4	
159-61027			261-33	2	
159-61027-5			261-36	2	
159-61027-50		1AMF-1560-035-2488	261	1	
159-61027-7			261-35	2	
159-61027-9			261-34	2	
159-61028		1AMF-1560-187-9969	261-1	2	
159-61028-11			261-3	2	
159-61028-17			261	2	
159-61032		1AMF-1560-187-9970	261-53	2	
159-61033			260-20	2	
159-61033-3			260-24	2	
159-61034			260-28	2	
159-61036		1AMB	261-49	2	
159-61047			261-24	6	
159-61051			261-52	2	
159-61052			261-44	4	
159-61053		1AMF-1560-330-6884	261-31	2	
159-61054			260-16	2	
159-61056-5			260-12	2	
159-61056-7			260-11	2	
159-61057			261-45	4	
159-61061			260-33	2	
159-61063-3			261-54	8	
159-61063-5			261-2	30	
			261-37		
159-61065-11			261-17	2	
159-61065-13			261-15	2	
159-61065-7			261-18	2	
159-61065-9			261-16	2	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-61066			258	REF	
			260-40	2	
159-61066-21			258	2	
159-61067			258-24	2	
159-61067-50			266E-28	1	
159-61068			258-5	2	
159-61069			258-4	2	
159-61072			259-1	2	
159-61073			258-2	2	
159-61074			260-42	2	
159-61100-5			19-23	1	
159-61100-6		1AMF-1560-345-6428	19	1	
159-61606		1AMF-1560-525-9736	82-24	8	
			264-1	REF	
159-61620			264-9	1	
159-61621-1			264-7	1	
159-61621-2			264	1	
159-61622-1			264-3	1	
159-61622-2			264	1	
159-61623-3			264-6	1	
159-61623-5			264	1	
159-61624-3			264-5	1	
159-61624-5			264	1	
159-61625			264-8	2	
159-63002			254-6	2	
			266A-6		
159-63003			254-15	2	
			266A-15		
159-63004			254-17	2	
			266A-17		
159-63008			254-16	4	
			266A-16		
159-63009			254-24	2	
			266A-24		
159-63009-9			254-24	2	
			266A-25		
159-63011			40-25	8	
			41-23		
159-63012			254-18	2	
			266A-18		
159-63014		1AMB-5306-298-4491	254-10	8	
			266A-10		
159-66007		1AMF-1560-251-5320	18-16	1	
159-66009			255-13	1	
159-66010		1AMF-1560-304-3259	18-17	1	
159-66011		1AMB-1560-327-2116	255-2	2	
159-66015			255-1	1	
159-66019			255-22	1	
159-66020-3			255-24	1	
159-66020-5			255-23	1	
159-66024			255-8	1	
159-66025			255-15	1	
159-66026			255-16	1	
159-66028			255-6	1	
159-68002			254-26	REF	
			266A	REF	
159-68002-10			254-26	2	
			266A-28		
159-68002-9			256-7	2	
159-68005		1AMB-1560-198-3074	256-27	2	
159-68006		1AMB-1560-198-3075	256-26	2	
159-68010			256-10	6	
159-68010-3			256-17	6	
159-68010-5			256-13	6	
159-68011			256-16	6	
159-68013			256-8	6	
159-68014			256	2	
159-68015			256-18	6	
159-68016			256-22	6	
159-68017		1AMB	256-21	6	
159-68018			256-23	6	
159-68020			256-6	4	
159-68021			256-9	2	
159-68024			256-24	2	
159-71001			1	NP	
			174		
			176		

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
59-71001			178		
59-71013	1AMF-5315-598-8581		44-11	1	
59-71014			44-21	1	
59-71015			44-18	1	
59-71016			44-15	2	
59-71017	1AMF-1560-092-4423		44-22	1	
59-71018			44-10	1	
59-71019			44-24	2	
59-71019-5			183	2	
			184-23		
159-71019-9			183	2	
			184-24		
159-71020			44-23	1	
159-71021	1AMF-1560-376-6372		44-7	1	
			174-30	REF	
			175-41	REF	
			181-42	REF	
			181A-51	REF	
159-71023			44-34	NP	
			174		
			175		
			181		
			181A		
159-71024	1AMF-1560-194-3139		44-5	1	
			174-29	REF	
			175-42	REF	
159-71025	1AMF-1560-568-2719		48-5	1	
159-71031			58-9	NP	
			174		
			176		
			178		
159-71032			178-12	1	
			183	REF	
159-71033			183-32	1	
159-71034			178-13	1	
			183	REF	
159-71037-5			174-26	REF	
			178-10	4	
			184-5		
159-71038			183-25	1	
159-71039			178-6	2	
159-71040			183-39	1	
159-71041			178-14	1	
			183	REF	
159-71042			183-46	1	
159-71045-5	1AMF-1560-657-8767		178-38	1	
			183	REF	
159-71046			183	1	
159-71046-11			183-16	1	
159-71046-13	1AMF-1560-092-4424		183-17	1	
159-71047-5			183-1	1	
159-71053			176-6	3	
159-71054			174	REF	
159-71056			176-3	1	
159-71058			183	1	
159-71059			178-5	12	
			179-10		
			184-10		
159-71064-5			184-3	REF	
159-71064-7			177-19	REF	
159-71068-10			174-27	REF	
			178-15	2	
			179-3		
159-71068-20			174-28	REF	
			178-16	4	
			179-4		
			180-3		
159-71073			59-36	3	
			60-6		
			67-18		
159-71083			178-7	2	
159-71084			183-24	1	
159-71086			178-4	2	
159-71086-5			179-6	4	
			184-6		
159-71089			184-9	4	
159-71090			179-9	12	
			180-7		
			184-8		
159-71091			58	NP	
			174		
			176		
			178		

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-71093	1AMF-1560-545-6598		179-7	3	
			180-5		
			184-7		
159-71094	1AMF-1560-511-4880		179-8	3	
			180-6		
			184		
159-71097			179-16	6	
			180-14		
			184-18		
159-71097-10			180A-19	1	
159-71097-20			180A-20	1	
159-71098			179-15	6	
			180-12		
			184-17		
159-71098-10			180-13	1	
159-71098-20			180A-18	1	
159-71107			176-2	1	
159-71108			52-43	1	
159-71108-101			52	1	
159-71108-151			52	2	
			53-37		
159-71111	1AMF-1560-657-8768		176-4	1	
159-71111-7			176-5	1	
159-71121			70-46	1	
			71-46		
159-71123			55	NP	
			174		
			175		
			178		
			179		
			180		
			181		
			180A		
			181A		
159-71129			173-13	1	
159-71130			173-12	1	
159-71131			83-2	NP	
			174		
			176		
			178		
159-71133	1AMF-5826-692-1890		173-2	1	
159-71134			173-10	1	
159-71135			173-5	1	
159-71136			173-14	1	
159-71137			173	REF	
			176-1	1	
159-71139	1AMF-1560-327-2721		174-12	4	
159-71140	1AMF-1560-327-2722		83-7	1	
159-71148			173-11	1	
159-71149			173-4	1	
159-71150			173-6	1	
159-71161			70-50	REF	
159-71162	1AMF-1560-376-6374		70-50	4	
			71-49		
			185-1		
159-71163	1AMF-1560-657-8771		178	3	
			183	REF	
			184		
159-71163-3	1AMF-1560-336-7632		183	1	
159-71164	1AMF-1560-657-8772		178	1	
159-71166	1AMF-1560-657-8773		184	1	
159-71214			178-14	1	
			183A	REF	
159-71214-10			183A-16	1	
159-71231			62	NP	
			178		
			179		
			180		
159-71331			51	NP	
			176		
			178		
			179		
			180		
159-71431			51	NP	
			174		
			176		
			178		
159-71608	1AMF-1560-303-2768		176-44	1	
159-71608-10			176	1	
159-71609			176	1	
159-71610	1AMF-1560-303-2779		176-41	1	
159-73005	1AMF-1560-327-2724		253-5	1	
159-73005-29			253-6	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-73005-31			253	1	
159-73005-37			253	2	
159-73006			253-1	1	
159-73007			253-9	1	
159-73008			253-10	1	
159-73010		1AMF-1560-657-8793	253-2	1	
159-73015		1AMF-1560-302-3260	253-3	1	
159-73016			253-8	1	
159-73017		1AMF-1560-030-4904	253-11		
			253-4	4	
159-73019-1		1AMF-1560-307-2270	4-44	1	
159-73019-2		1AMF-1560-511-4881	4	1	
159-73020-1		1AMF-1560-312-9992	4-43	1	
159-73020-2		1AMF-1560-303-2790	4	1	
159-73021-1		1AMF-1560-654-0144	4-45	1	
159-73021-2		1AMF-1560-654-0143	4	1	
159-73022-1			4	NP	
159-73022-2			4	NP	
159-73026-1		1AMF-1560-250-9470	4-42	1	
159-73026-2		1AMF-1560-250-9471	4	1	
159-73304		1AMF-1560-657-8796	189-45	1	
159-73304-11		1AMF-1560-560-4216	189	1	
159-73306			189-39	1	
159-73306-11		1AMF-1560-657-8797	189	1	
159-73307			83-17	1	
159-73308			83	1	
			189A-8	REF	
159-73308-11		1AMF-1560-654-0145	83	1	
159-73312-20		1AMF-1560-657-8798	189A	2	
159-73314-3			189-4	4	
			189-44		
159-73314-5		1AMF-1560-312-9993	189-43	1	
159-73314-7		1AMF-1560-386-7549	189	1	
159-73320		1AMF-1560-657-8492	189	1	
159-73325-11			189-25	1	
159-73325-13			189-23	1	
159-73325-15		1AMF-1560-656-2597	189-20	1	
159-73325-17		1AMF-1560-656-2598	189-21	1	
159-73325-19		1AMF-1560-613-8466	189-11	1	
159-73325-21			189-30	1	
159-73325-23			189-29	1	
159-73325-25			189-26	1	
159-73325-27			189-1	1	
159-73325-29			189-5	1	
159-73325-31			189-36	1	
159-73325-33			189	1	
159-73325-35			189	1	
159-73325-37			189	1	
159-73325-39		1AMF-1560-657-8799	189	1	
159-73325-41		1AMF-1560-657-8800	189	1	
159-73325-43		1AMF-1560-657-8801	189	1	
159-73325-45			189A	1	
159-73325-47		1AMF-1560-657-8802	189A	1	
159-73325-49		1AMF-1560-301-8006	189	1	
159-73325-51			189	1	
159-73325-53		1AMF-1560-656-2599	189	1	
159-73325-55		1AMF-1560-656-2601	189	1	
159-73325-57		1AMF-1560-657-8803	189	1	
159-73325-59		1AMF-1560-656-2604	189	1	
159-73325-61		1AMF-1560-657-8804	189-38	1	
159-73325-63		1AMF-1560-656-2605	189	1	
159-73325-65		1AMF-1560-656-2606	189	1	
159-73325-67			189	1	
159-73325-69		1AMF-1560-656-2607	189A	1	
159-73325-7			189-27	1	
159-73325-71			189	1	
159-73325-73			189	1	
159-73325-75		1AMF-1560-560-4217	189	1	
159-73325-77			189	1	
159-73325-79			189	1	
159-73325-81		1AMF-1560-657-8805	189A-7	1	
159-73325-9			189-34	1	
159-73330			58-10	NP	
			189		
159-73331			51	NP	
			189		
159-73332			83-3	NP	
			189A		
159-73332-30			83	NP	
			189A		
159-73510			67-26	1	
159-73511			67-27	4	
159-73512		1AMF-1560-310-9972	67-29	2	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
159-74016			54-15	1	
159-74017			257-23	1	
			264-30	REF	
159-74018			264-34	1	
159-74019			264-33	1	
159-74020			264	1	
159-74020-10			264	1	
159-74020-20			264	1	
159-74020-3			264	1	
159-74021-3			264-45	1	
159-74021-5			264-27	1	
159-74022			264-29	2	
			264-47		
159-74023			264-44	1	
159-74023-7			264-26	1	
159-74024			265-20	1	
159-74025			264-37	1	
159-74025-10			264-17	1	
159-74025-3			264-19	1	
			265		
159-74034			257-22	1	
			264-10	REF	
159-74035			264-35	1	
159-74035-10			264-15	1	
159-74036			257-10	2	
159-74101			257-6	1	
159-74102			257-18	1	
159-74103			257-11	2	
159-74105			257-7	1	
159-74106			257-12	1	
159-74107			257-15	1	
159-74109			257-26	1	
159-74110		1AMF-1560-649-5662	264-13	1	
159-74111			257-27	REF	
159-89001			254	1	
159-89001-10			254-27	1	
			262	REF	
159-89001-20			254-28	1	
			259	REF	
			255	REF	
159-89001-50			264-48	REF	
159-933142			200	REF	
159-933443			206-31	REF	
159-934142			213	REF	
159-942031-5		1AMF-1560-657-8807	90-45	1	
159-951013			34	REF	
			34-19	REF	
159-951014			34	REF	
			34-18	REF	
159-954015			153-28	REF	
			154-28	REF	
159-954063			204-16	REF	
159-954066			263-23	REF	
			266B-23	REF	
165-58822-45		1AMJ-1560-092-4793	46-22	1	
171-14295			7	2	
			8-6		
171-14300		1AMF-1560-386-7550	7	2	
			8-1		
171-14300-101		1AMF-1560-525-9737	8	1	
171-14300-23		1AMF-1560-327-2726	7	2	
			8-10		
171-31010		1AMF-1560-251-5751	83-27	1	
171-31032-1		1AMF-1560-332-0927	83-32	1	
171-31032-2		1AMF-1560-332-0928	83	1	
171-31033			83	2	
171-31230			84	1	
171-31230-101			84	1	
171-31230-151			84	1	
171-31508-1		1AMF-1560-304-3261	237-47	1	
171-31508-2		1AMF-1560-304-3262	237-48	1	
171-31509		1AMF-1560-304-3263	237-50	1	
171-31510		1AMF-1560-098-8066	237-49	1	
171-31511-1		1AMF-1560-098-8067	237-49	REF	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART.	SOURCE CODE
171-31511-2	1AMF	1560-098-8068	237-50	REF	
171-31512-1	1AMF	1560-304-3264	237-47	REF	
171-31512-2	1AMF	1560-098-8069	237-48	REF	
171-31513	1AMF	1560-304-3265	237-47	REF	
			237-48	REF	
171-31514	1AMF	1560-320-5851	237-49	REF	
171-31515-3	1AMF	1560-328-3323	237-50	REF	
171-31515-5	1AMF	1560-328-3324	237-50	REF	
171-31552	1AMF	1560-307-2271	242-10	1	
171-31553	1AMF	1560-098-8070	242-10	REF	
171-31557-1	1AMF	1560-312-9994	238-50	1	
171-31557-2	1AMF	1560-308-6400	239-44	1	
171-31560	1AMF	1560-657-8816	238-51	2	
			239-45		
171-31561	1AMF	1560-657-8817	238-52	2	
			239-46		
171-31570-1	1AMF	1560-210-9797	240-16	2	
			241-14		
171-31570-2	1AMF	1560-210-9798	240	2	
			241		
171-42052	1AMF	1560-210-9800	223-10	6	
171-47077	1AMF	1560-376-6375	246-3	1	
171-47083	1AMF	1560-185-6215	247-36	1	
171-47122	1AMF	5306-217-1510	66-10	2	
171-51009	1AMF	1560-210-9801	101-59	1	
171-51011			98	1	
171-51012	1AMF	1560-657-8819	98	1	
171-51036			58	NP	
			97		
			98		
			251		
171-51066			97-31	5	
171-51801-10			97-47	1	
171-51801-12	1AMF	1560-301-8007	97-25	1	
171-51801-14			101	1	
171-51801-2			97-52	1	
171-51801-24			97-49	1	
171-51801-26			97-48	1	
171-51801-28	1AMF	1560-301-8008	97-26	1	
171-51801-30			101	1	
171-51801-32			98	1	
171-51801-34			97-12	1	
171-51801-36			98	1	
171-51801-4			97-50	1	
171-51801-44	1AMF	1560-312-9995	97-22	1	
171-51801-46	1AMF	1560-560-4218	97-19	1	
171-51801-48			97-18	1	
171-51801-52	1AMF	1560-301-8009	97-23	1	
171-51801-54	1AMF	1560-560-4219	97-20	1	
171-51801-56	1AMF	1560-092-4426	97-10	1	
171-51801-6			97-61	1	
171-51801-62	1AMF	1560-301-8010	97-24	1	
171-51801-64	1AMF	1560-560-4220	97-21	1	
171-51801-66			97-9	1	
171-51801-68			97	1	
171-51801-70			96	1	
171-51801-74			97	1	
171-51801-8			97-58	1	
171-52033	1AMF	1560-657-8820	205-1	1	
171-52229			106	1	
171-52510	1AMF	1560-024-4398	115-33	2	
171-53103	1AMB		186-17	2	
			186A-20		
171-53104	1AMB	1560-320-5713	186-17A	8	
			186A-21		
171-53355	1AMF	1560-525-9738	193	1	
171-53380	1AMF	1560-092-4427	193	2	
171-53449	1AMF	1560-092-4428	194	1	
171-53466	1AMF	1560-376-6378	194-1	1	
171-53577	1AMF	1560-376-6379	104-5	1	
171-54030			62	NP	
			152		
171-54031			58	NP	
			83		
			145		
171-54032			158	NP	
171-54034			51	NP	
			154		
171-54041	1AMF	1560-657-8822	158-5	1	
			170	REF	
171-54043			170	1	
171-54044	1AMF	1560-327-3029	158-16	1	
171-54045			158-1	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART.	SOURCE CODE
171-54046			158-37	1	
171-54048			83-41	1	
171-54048-7	1AMF	1560-657-8823	83-42	1	
171-54049			83-43	1	
171-54050			147-7	1	
			164	REF	
171-54051			84-51	1	
171-54053			169	1	
171-54054	1AMF	1560-657-8824	169	1	
171-54055			151-10	1	
			169	REF	
171-54059	1AMF	1560-024-4399	212	1	
171-54063	1AMF	1560-092-4429	84-49	1	
171-54064-3	1AMF	1560-525-9739	158-33	1	
171-54064-5	1AMF	1560-525-9740	158-36	1	
171-54064-7	1AMF	1560-525-9741	158-32	1	
171-54070			54	1	
			147-48	REF	
171-54080	1AMF	1560-332-3060	7	1	
			8-14		
171-58060			249-5	1	
171-58073			78-73	1	
171-58210	1AMF	1650-386-7534	78	1	
171-58211			78-43	1	
171-58212			78-41	1	
171-58213	1AMF	1650-376-6708	78-42	1	
171-58251	1AMF	1560-344-1745	84-50	1	
			134-52	REF	
171-58252			134	1	
171-58811-11			120-49	1	
171-58811-13	1AMF	1560-346-9712	134-4	1	
171-58811-15			135-4	1	
171-58811-17	1AMF	1560-348-5462	134-7	1	
171-58811-19			136	1	
171-58811-21			136	1	
171-58811-23	1AMF	1560-301-8011	134-53	REF	
			136-18	1	
171-58811-25	1AMF	1560-301-8012	134-30	1	
			136-36	REF	
171-58811-27	1AMF	1560-301-8013	134-34	1	
171-58811-[illegible]			136	1	
171-58811-[illegible]			135-24	1	
171-58811-31			136	1	
171-58811-5			120-44	1	
171-58811-7	1AMF	1560-348-5463	134-26	1	
171-58811-9	1AMF	1560-347-3333	134-28	1	
171-71001			1	NP	
			175		
			176		
			177		
			179		
			180		
			181		
			182		
171-71011			13	NP	
			14		
171-71014			179-29	2	
			183B		
171-71014-10			179	2	
			183B		
171-71014-20			180-27	1	
			180A-28		
			182A-29	REF	
171-71016			179-30	2	
			183B-5		
171-71016-10			179	2	
			183B		
171-71016-20	1AMF	1560-657-8828	180-28	2	
			180A-29		
171-71016-30			183A-1	1	
171-71019			179-42	5	
			180-40		
			180A-40		
			183A-6		
			183B-16		
			183B-17		
171-71019-11			181	3	
			181A-29		
			183B-20		
171-71019-2			183-13A	1	
171-71019-5	1AMF	1560-657-8829	179	7	
			180		
			181-25		

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
171-71019-5		1AMF-1560-657-8829	180A		
			181A-27		
			183B-18		
171-71019-7		1AMF-1560-657-8830	181-26	4	
			183-13C		
			181A-28		
			183B-19		
171-71019-9		1AMF-1560-657-8831	179	3	
			180		
			180A		
171-71021			7	NP	
			8		
171-71022			175	NP	
			177		
171-71026		1AMF-1560-657-8832	175	2	
			181		
			181A		
171-71028			175-25	2	
			181-29		
			181A-36		
171-71028-9			175	2	
171-71031			58	NP	
			175		
			177		
			179		
171-71043			60-12	1	
171-71044			60	1	
171-71044-3			60-11	1	
171-71045			67-24A	1	
171-71045-5			67	1	
171-71046			179	1	
			180		
171-71046-10			180A	1	
171-71062			7	NP	
			8		
171-71072			13	2	
			14		
171-71092			175	1	
171-71131			83	NP	
			175		
			177		
			179		
171-71132			181	NP	
171-71134			175	NP	
171-71142			181	NP	
171-71144			175	NP	
171-71165		1AMF-1560-312-9996	7	3	
			8-11		
171-71167		1AMF-1560-312-9997	7	3	
			8-13		
171-71170		1AMF-1560-312-9998	7-12A	3	
			8		
171-71175			8-26	1	
171-71180		1AMF-1560-657-8837	8	1	
171-71181		1AMF-1560-035-2491	8-23	1	
171-71182			182	NP	
171-71431			51	NP	
			176		
			177		
			179		
			180		
			182		
171-73330			58	NP	
			189		
171-73331			51	NP	
			189		
174-00002			1	1	
174-00010			1	NP	
174-10006-3		1AMF-1560-245-9287	3-17	1	
174-10006-5		1AMF-1560-245-9288	3	1	
174-10006-7		1AMF-1560-251-5584	3	1	
174-13002			18	REF	
174-13002-1			21	1	
174-13002-2			21	1	
174-13026			18	REF	
174-13026-1			16	REF	
174-13026-101			16	1	
			21	REF	
174-13026-102			16	1	
			21	REF	
174-13026-2			16	REF	
174-13049-1		1AMF-1560-217-6163	17	1	
174-13049-2		1AMF-1560-217-6164	17	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
174-13100-1			14	REF	
174-13100-101		1AMF-1560-508-8584	14	1	
			16	REF	
174-13100-102			14	1	
			16	REF	
174-13100-2			14	REF	
174-13100-3		1AMF-1560-210-9802	16-22	1	
174-13155-1			21	1	
174-13155-15		1AMF-1560-657-8840	21-4	2	
174-13155-17		1AMF-1560-657-8841	21-5	2	
174-13155-2			21	1	
174-13165			16-31	2	
174-13266-1		1AMF-1560-327-2728	17	1	
174-13266-2		1AMF-1560-327-2779	17	1	
174-13348-1		1AMF-1560-244-6403	18	1	
174-13348-2		1AMF-1560-244-6404	18	1	
174-13362-1		1AMF-1560-024-4400	17-29	1	
174-13362-2		1AMF-1560-024-4401	17	1	
174-13601-1		1AMF-1560-510-3706	2	2	
			5		
			14	REF	
174-13601-2		1AMF-1560-508-8585	2	2	
			5		
			14	REF	
174-13901-1		1AMF-1560-210-9803	2	1	
174-13901-2		1AMF-1560-210-9804	2	1	
174-14001-1		1AMF-1560-508-8586	8-15	1	
			10	REF	
174-14001-101			8	REF	
174-14001-2			8	REF	
174-14001-201		1AMF-1560-657-8842	8	1	
			10	REF	
174-14001-202		1AMF-1560-658-6004	8	1	
			10	REF	
174-14002-1			10	1	
174-14002-101			10	1	
174-14002-102			10	1	
174-14002-2			10	1	
174-14004-1			6	1	
174-14004-2			6	1	
174-14005-1			10	1	
174-14005-101			10	1	
174-14005-102			10	1	
174-14005-2			10	1	
174-14006-1			6	1	
174-14006-101			6	1	
174-14006-2			6	1	
174-14006-25		1AMF-1560-657-8843	6	1	
174-14007-1			10-37	1	
174-14007-101			10	1	
174-14007-102			10	1	
174-14007-2			10	1	
174-14101-1			8	1	
174-14101-17			8-31	2	
174-14101-2			8	1	
174-14126		1AMF-1560-024-4402	11-13	2	
174-14134-1		1AMF-1560-210-9805	6-4	1	
174-14134-2		1AMF-1560-210-9806	6	1	
174-14135-1			8-36	1	
174-14135-2		1AMF-1560-657-8846	8	1	
174-14155-1			10	1	
174-14155-2			10	1	
174-14182		1AMF-1560-024-4403	11-14	2	
174-14183		1AMF-1560-024-4404	11-12	2	
174-14192-1		1AMF-1560-035-2492	11-15	1	
174-14192-2		1AMF-1560-035-2493	11	1	
174-14223		1AMF-1560-657-8856	11-17	1	
174-14601-1		1AMF-1560-657-8871	2	2	
			5		
			8	REF	
174-14601-101		1AMF-1560-657-8402	2	2	
			5		
			8	REF	
174-14601-2		1AMF-1560-657-8872	2	2	
			5		
			8	REF	
174-14901-1		1AMF-1560-210-9807	2	1	
174-14901-101		1AMF-1560-525-9742	2	1	
174-14901-2		1AMF-1560-210-9808	2	1	
174-18246		1AMF-1560-331-5008	116-46	1	
174-18252		1AMF-1560-307-2272	116	1	
174-31011		1AMF-1560-035-2495	61-35	1	
			91-40	REF	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SUPPLY CODE
174-31011		1AMF-1560-035-2495	92-43	REF	
174-31011-5			61-38	1	
174-31011-9		1AMF-1560-657-8873	61-39	1	
174-31012		1AMF-1560-317-0656	61-33	1	
174-31102			51	1	
			53	REF	
174-31102-51			51	2	
			53	REF	
174-31104			62	1	
			63	REF	
174-31105			58	REF	
			60	REF	
174-31105-151			58	1	
			60	REF	
174-31114			62	1	
			63	REF	
174-31114-101			62	1	
			63	REF	
174-31114-151			62	1	
			63	REF	
174-31117		1AMF-1560-657-8876	60-35	1	
174-31117-5			60	1	
174-31125			60	1	
174-31125-15			60	1	
174-31125-51			60	1	
174-31130		1AMF-1560-327-2729	61-37	1	
174-31132		1AMF-1560-035-2496	53-19	1	
174-31135-1		1AMF-1560-657-8877	53-24	1	
174-31135-2		1AMF-1560-627-7614	53	1	
174-31140			66	1	
174-31146		1AMF-1560-327-2730	57	6	
174-31174			63	1	
174-31194		1AMF-1560-317-0657	66-55	1	
174-31199			60	1	
174-31264-1			63	REF	
174-31264-101			63	1	
174-31264-2			60	1	
174-31264-52			60	1	
174-31265-1			63	1	
174-31265-2			60	1	
174-31503		1AMF-1560-525-9743	220	1	
			241	REF	
174-31503-11		1AMF-1560-657-8881	241-2	1	
174-31504-1		1AMF-1560-525-9744	220	1	
			238	REF	
174-31504-2		1AMF-1560-525-9745	220	1	
			239	REF	
174-31506		1AMF-1560-525-9746	220	1	
			243	REF	
174-31507		1AMF-1560-525-9747	220	1	
			245	REF	
174-31507-27		1AMF-1560-304-3267	245-2	1	
174-31520-5		1AMF-1560-326-2785	239-48	1	
174-31521		1AMF-1560-327-2731	243-5	1	
174-31524-5		1AMF-1560-327-2732	238-53	1	
174-31524-6		1AMF-1560-327-2733	239-47	1	
174-31526-1		1AMF-1560-304-3268	241-8	1	
174-31526-2		1AMF-1560-657-8888	241	1	
174-31529		1AMF-1560-327-2734	245-7	1	
174-31530-5		1AMF-1560-327-2735	243-17	1	
174-31531-5		1AMF-1560-327-2736	238-54	1	
174-31534		1AMF-1560-327-2737	245-6	1	
174-31537		1AMF-1560-662-7805	240-29	16	
			240-50		
			241-26		
			241-46		
174-31540			220	NP	
174-31558		1AMF-1560-327-2742	238-37	2	
			239-31		
174-31560		1AMF-1560-030-4905	238-34	2	
			239-28		
174-31561		1AMF-1560-312-9999	238-38	2	
			239-32		
174-31562		1AMF-1560-219-4042	238	REF	
174-31562-11		1AMF-1560-327-2743	238	1	
174-31562-12		1AMF-1560-327-2744	239	1	
174-31566			223-42	REF	
174-31567			224-31	REF	
174-31577		1AMF-1560-339-8158	238-46	2	
			239-40		
174-31578		1AMF-1560-657-8891	238-48	2	
			239-42		
174-31579		1AMF-1560-323-7286	223-42	1	
174-31580		1AMF-1560-323-7287	224-31	1	
174-31581		1AMF-1560-315-0843	238-47	2	
			239-41		
174-31582		1AMF-1560-376-6383	223-42	REF	
			224-31	REF	
			238-42	2	
			239-36		
174-31586-3		1AMF-1560-327-2746	240-5	1	
			241-5		
174-31586-5		1AMF-1560-327-2747	238-67	2	
			239-61		
174-31586-7		1AMF-1560-303-2810	236-1	2	
			245-1		
174-31586-9		1AMF-1560-327-2748	242-15	1	
			243-22		
174-31603			51	1	
174-31604			53-1	1	
			62	REF	
174-31605			53-2	1	
			58	REF	
174-31806		1AMF-1560-092-4430	71-14	1	
174-31807		1AMF-1560-213-4981	71-39	1	
174-31808			72	REF	
174-31809			71-11	REF	
174-31810			72	REF	
174-31811		1AMF-1560-217-6165	50	1	
			71	REF	
174-31811-11		1AMF-1560-214-9363	71-12	2	
174-31811-3		1AMF-1560-336-7633	71-13	12	
174-31811-5		1AMF-1560-525-9746	71-8	1	
174-31811-7		1AMF-1560-327-2749	71-7	1	
174-31811-9		1AMF-1560-336-7634	71-9	2	
174-31812		1AMF-1560-217-6166	50	1	
			71	REF	
174-31812-11		1AMF-1560-327-2750	71-33	1	
174-31812-3		1AMF-1560-327-2751	71-25	1	
174-31812-5		1AMF-1560-327-2752	71-24	1	
174-31812-7		1AMF-1560-327-2753	71-27	1	
174-31812-9			71-29	26	
174-31816-3		1AMF-1560-563-2676	80-25	1	
174-31816-5		1AMF-1560-326-2787	71-10	1	
174-31816-7		1AMF-1560-657-8892	80-41	1	
174-31816-9		1AMF-1560-376-6384	70-10	1	
174-31828		1AMF-1560-376-6385	71-53	REF	
			72	1	
174-31829			71-11	1	
174-31830		1AMF-1560-376-6387	71-54	REF	
			72	1	
174-31851		1AMF-1560-035-2497	81-1	1	
174-31851-10		1AMF-1560-331-5009	81	1	
174-31851-11			81-32	1	
174-31851-12			81-33	1	
174-31851-13			81-21	2	
174-31851-15			81-20	2	
174-31851-17			81-31	1	
174-31851-19			81-39	1	
174-31851-3			81-35	2	
174-31851-5		1AMF-1560-331-5010	81-36	1	
174-31851-6		1AMF-1560-331-5011	81	1	
174-31851-7		1AMF-1560-657-8893	81-37	2	
174-31851-9		1AMF-1560-331-5012	81-38	1	
174-31852			81-41	1	
			82	REF	
174-31853		1AMF-1560-509-3690	82	1	
174-31854			82	1	
174-31855		1AMF-1560-092-4431	81-19	1	
174-31856-1		1AMF-1560-345-6469	81-40	1	
174-31856-2		1AMF-1560-092-4433	81	1	
174-31857-1			82	1	
174-31857-2			82	1	
174-31858			53-27	1	
174-31858-3			53-28	1	
174-31858-5			53	1	
174-31859-1		1AMF-1560-332-0929	81	1	
174-31859-2		1AMF-1560-657-8894	81-18	1	
174-31860-1		1AMF-1560-332-3061	81-44	1	
174-31860-2		1AMF-1560-332-3062	81	1	
174-31862			53-25	1	
174-31866-1			82	REF	
174-31866-101			82	1	
174-31866-102			82	1	
174-31866-2			82	REF	
174-31866-51			82	REF	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
174-31866-52			82	REF	
174-31875		1AMF-1560-699-4092	81-34	1	
174-31894		1AMF-1560-328-8828	82	1	
174-33304		1AMF-1560-035-2498	199	2	
174-33305		1AMF-1560-376-6388	199	1	
174-33305-3			199	1	
174-33346		1AMF-1650-304-3269	200-5	2	
174-34312		1AMF-1560-024-4405	214	1	
174-43038		1AMF-5310-209-5918	229-40	2	
174-43039-7		1AMF-1560-327-2754	229-46	2	
174-43039-9			229-47	REF	
174-43047		1AMF-1560-525-9749	226-14	1	
			229-49	REF	
174-43048		1AMF-1560-323-7289	229-14	1	
174-43049		1AMF-1560-525-9750	229-50	REF	
			231-12	1	
174-43052-15		1AMF-1560-327-2755	229-44	1	
174-43052-5		1AMF-1560-216-1653	229-45	1	
174-43952		1AMF-1560-327-2756	229	1	
174-47064		1AMF-1560-376-6390	246	1	
174-48001			1	NP	
174-48002-1		1AMF-1560-092-4434	29	1	
174-48002-2		1AMF-1560-313-0004	29	1	
174-48003-1		1AMF-1560-210-9810	2	1	
			32		
174-48003-2		1AMF-1560-345-6473	2	1	
			32		
174-48005		1AMF-1560-657-8898	32-10	2	
174-48013-1			14	NP	
			27		
174-48013-2			14	NP	
			27		
174-48016-1		1AMF-1560-210-9812	2	2	
			29-1		
174-48016-2		1AMF-1560-210-9813	2	2	
			29		
174-48023		1AMF-1560-327-2757	29-12	20	
			32-6		
174-48025		1AMF-1560-376-6392	29-11	18	
			32-7		
174-48028		1AMF-1560-024-4407	29-33	4	
174-48031			51	NP	
			90		
174-48032			58	NP	
			92		
174-48033			62-41	NP	
			92		
174-48071		1AMF-1560-328-8842	70	2	
			71-50		
			72		
174-48101			66	1	
			91-39	REF	
			92-42	REF	
174-48101-7		1AMF-1560-328-8865	66-49	2	
174-48101-9			66-50	1	
174-48102		1AMF-1560-339-8169	27-32	1	
			91-43	REF	
			92-46	REF	
174-48103			27-37	1	
174-48104		1AMB-1560-527-7295	27-36	2	
174-48105		1AMF-1560-035-2499	91-22	1	
			92-22		
			94	REF	
174-48106		1AMF-1560-035-2500	94-20	1	
174-48108			94-21	1	
174-48109		1AMF-1560-634-8927	94-2	1	
174-48110		1AMF-1560-328-8884	94-3	1	
174-48116		1AMF-1560-328-8896	94-18	1	
174-48118		1AMF-1560-327-2759	91-8	1	
			92-9		
174-48119		1AMF-1560-093-3950	91-7	1	
			92-8		
174-48123		1AMF-1560-526-6842	32-38	2	
174-48125			51	NP	
			90		
174-48151		1AMF-1560-613-4808	91-31	1	
			92-16		
174-48156		1AMF-1560-024-4408	91-38	1	
			92-40		
174-48159		1AMF-1560-570-1828	91-3	1	
			92-4		
174-48160		1AMF-1560-551-2090	91-4	1	
			92-5		

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
174-48170		1AMF-1560-376-6394	27-24	1	
174-48171		1AMF-1560-304-3270	66-54	1	
174-48174		1AMB-1560-327-2760	94-13	1	
174-48175		1AMF-1560-376-6395	32-45	2	
174-48176		1AMF-1560-313-0005	27-12	2	
174-48177		1AMF-1560-526-5480	2	4	
			27-13		
			32-47		
174-48179		1AMF-1560-376-6397	27-14	2	
			29-39	REF	
			32-51	REF	
174-48181		1AMF-1560-376-6398	2	4	
			32-46		
174-48182		1AMF-1560-526-5481	2	12	
			27-6		
			32-24		
174-48185		1AMF-1560-376-6400	27-9	2	
174-48186		1AMF-1560-217-6167	27-7	2	
			29-40	REF	
			32-52	REF	
174-48187		1AMF-1560-335-7760	27-3	2	
174-48188-1		1AMF-1560-213-4982	29-24	1	
174-48188-2		1AMF-1560-213-4983	29	1	
174-48190			32-50	REF	
174-48190-1		1AMF-1560-376-6401	10-50	1	
174-48190-2			10	1	
174-48191-1		1AMF-1560-210-9815	10-52	1	
174-48191-13			10-54	2	
174-48191-15			10-55	2	
174-48191-2		1AMF-1560-210-9816	10	1	
174-48193-1		1AMF-1560-035-2501	32-16	1	
174-48193-2		1AMF-1560-035-2502	32-17	1	
174-48195		1AMF-5306-638-6636	32-35	4	
174-48200-1			8	NP	
			32		
174-48200-2			8	NP	
			32		
174-48301-1			10	NP	
			31		
174-48301-2			10	NP	
			31		
174-48302-3			31-9	1	
174-48302-4			31	1	
174-48302-5			31-8	1	
174-48302-6			31	1	
174-48303-3			31-6	1	
174-48303-4			31	1	
174-48303-5			31-7	1	
174-48303-6			31	1	
174-48304-1			31-1	1	
174-48304-2			31	1	
174-48305-1			31-5	1	
174-48305-2			31	1	
174-48306-1			31-4	1	
174-48306-2			31	1	
174-48307-1			31-3	1	
174-48307-2			31	1	
174-48801-10		1AMF-1560-348-9516	32	1	
174-48801-11		1AMF-1560-098-8071	32-26	2	
174-48801-12		1AMF-1560-347-3334	27-26	1	
174-48801-13		1AMF-1560-348-9517	27	1	
174-48801-14		1AMF-1560-348-5464	27-17	1	
174-48801-15		1AMF-1560-304-3272	32	1	
174-48801-18		1AMF-1560-307-2273	27-28	1	
174-48801-20		1AMF-1560-216-1654	27-30	1	
174-48801-23		1AMF-1560-348-9518	91-15	1	
			92-23		
174-48801-24		1AMF-1560-304-3273	91-13	1	
			92-21		
174-48801-3		1AMF-1560-506-6286	2	1	
			32-41		
174-48801-4		1AMF-1560-657-8903	2	1	
			32		
174-48801-40		1AMF-1560-348-5465	27-15	1	
174-48801-43			91-26	1	
			92-30		
174-48801-44		1AMF-1560-344-1746	91-28	1	
			92-32		
174-48801-45		1AMF-1560-307-2274	91-29	1	
			92-33		
174-48801-5		1AMF-1560-506-6287	2	1	
			32-39		
174-48801-6		1AMF-1560-092-4435	2	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	USABLE CODE
174-48801-6		1AMF-1560-092-4435	32		
174-48801-9		1AMF-1560-092-4436	32-49	1	
174-51003		1AMF-1560-326-2791	99	1	
174-51003-10			99	2	
174-51003-5			99	1	
174-51003-7			99	1	
174-51003-9			99	1	
174-51005			98	2	
			99	REF	
174-51014			8	NP	
			35		
174-51018		1AMF-1560-035-2503	31-42	1	
174-51112			60	1	
174-51114			8	NP	
			35		
174-51145			53	REF	
174-51145-101			53	2	
174-51145-51			53	REF	
174-51151			63	1	
174-51801-18			35-27	1	
174-51801-2			97-32	1	
174-51801-20		1AMF-1560-216-1655	3-35	1	
			35-37	REF	
174-51801-22		1AMF-1560-545-6599	97-42	1	
174-51801-24		1AMF-1560-545-6600	97-41	1	
174-51801-26		1AMF-1560-216-1656	97-40	1	
174-51801-28		1AMF-1560-545-6601	97-35	1	
174-51801-30			97-33	1	
174-51801-4		1AMF-1560-621-0070	97-39	1	
174-51801-6		1AMF-1560-547-7289	97-34	1	
174-51801-64			97	1	
174-51801-8		1AMF-1560-092-4437	97-43	1	
174-53016			53-20	1	
174-53025		1AMF-1680-310-1292	187	1	
174-53031			50	NP	
			186A		
174-53076		1AMF-1560-376-6403	186	1	
			186A-1		
174-53093			1	NP	
			185		
174-53094		1AMF-1560-572-6754	185	1	
174-53094-21		1AMF-1560-327-2766	185-19	1	
174-53094-3		1AMF-1560-327-2767	185-23	1	
174-53094-5		1AMF-1560-327-2768	185-22	1	
174-53094-7		1AMF-1560-327-2769	185-21	1	
174-53094-9		1AMF-1560-327-2770	185-20	1	
174-53095		1AMF-1560-035-2505	185-16	1	
174-53097		1AMF-1560-035-2507	185-17	1	
174-53098		1AMF-1560-035-2508	185-18	1	
174-53098-3		1AMF-1560-326-2792	185-13	1	
174-53100		1AMF-1560-035-2509	185-11	2	
174-53101-1		1AMF-1560-525-9751	185-10	1	
174-53101-2		1AMF-1560-327-2771	185	1	
174-53102-1		1AMF-1560-327-2772	185-8	1	
174-53102-2		1AMF-1560-327-2773	185	1	
174-53110		1AMF-1680-528-7973	186A-7	1	
174-53111		1AMF-1560-572-6755	186A-17	1	
174-53112		1AMF-1560-572-6756	186A-12	1	
174-53113		1AMF-1560-573-6525	186	2	
			186A-11		
174-53116		1AMF-1560-327-2775	186-14	1	
174-53579			64-26	1	
174-53580		1AMF-1560-323-7290	64-23	1	
174-53581		1AMF-1560-376-6404	64-22	1	
174-53582		1AMF-1560-627-7615	64-28	1	
174-53585			192-50	1	
174-53587			192-51	1	
174-53587-5			192	1	
174-54013-1			14	NP	
			41		
174-54013-2			14	NP	
			41		
174-54014-1			8	NP	
			41		
174-54014-2			8	NP	
			41		
174-54023			266B	NP	
174-54024			266F	1	
174-54030			62	NP	
			152		
174-54031			58	NP	
			145		
174-54034			51	NP	
			154		
174-54041			155-52	2	
			158		
			171	REF	
			182A-30	REF	
174-54042			171-17	1	
174-54043		1AMF-1560-327-2762	171-1	1	
174-54045			158	1	
174-54049			158	REF	
174-54050-10		1AMF-1560-657-8908	147	1	
			164	REF	
174-54051		1AMF-5310-596-5623	83	2	
174-54055			156-36	1	
174-54057		1AMF-1560-327-2776	158-47	1	
174-54058		1AMF-1560-698-8072	150-5	1	
174-54059		1AMF-1560-657-8909	150-14	1	
174-54060		1AMF-1560-657-8910	149	1	
			167	REF	
174-54061			167-19	1	
174-54065			54	1	
174-54066		1AMF-1560-332-3063	158	1	
174-54085		1AMF-1560-657-8914	147-41	1	
			160	REF	
174-54086		1AMF-1560-332-3064	160-23	1	
174-54090		1AMF-1560-657-8915	266B	1	
174-54091			266F	1	
174-54092			266D	1	
			266F	REF	
174-54099		1AMF-1560-304-9751	172-25	1	
174-54100			149	1	
			172	REF	
174-54100-10			149	1	
			172	REF	
174-54159		1AMF-1560-613-8425	58	1	
174-54159-5			58	1	
174-54159-7			58	1	
174-54159-9			58	1	
174-54193			266B-54	1	
174-54195			266B-57	1	
174-54198			266B-7	1	
174-54350			147	1	
			165	REF	
174-54350-3			147	1	
			165	REF	
174-54508		1AMF-1560-657-8917	155-51	1	
174-54508-10		1AMF-1560-657-8918	158	1	
174-54514		1AMF-1560-515-7656	166A-11	1	
174-54515		1AMF-1560-515-7658	166A-13	1	
174-54517		1AMF-1560-515-7659	166A-12	1	
174-54520		1AMF-1560-657-8920	54	1	
174-58052			126	1	
			127	REF	
174-58230		1AMF-1560-657-8921	130	1	
174-58233		1AMF-1650-210-9817	39	1	
174-58234		1AMF-1560-024-4410	116	1	
174-58237			116	1	
174-58242		1AMF-1560-024-4411	116	1	
174-58427		1AMF-1650-210-9818	117	1	
174-61001			260	REF	
			266C-7	2	
174-61015			261	2	
174-61016			261-8	2	
174-61017			261-9	2	
174-61018			261-10	2	
174-61021		1AMF-1560-327-2777	266E-16	1	
174-61064-1			176-33	1	
174-61066			260	1	
			266E	REF	
174-61068-3			266E-8	1	
174-61068-5			266E-5	1	
174-61080		1AMF-1560-035-2512	63-47	2	
174-61080-5			63-48	2	
174-61606		1AMF-1560-649-5651	266D-12	1	
174-61607			266D-20	1	
174-61608			266D-21	1	
174-61612			82-32	1	
174-66007		1AMF-1560-327-2778	266D-24	1	
174-66008		1AMF-1560-657-8922	266D-23	1	
174-71001			1	NP	
			177A		
			180A		
			181A		
			182A		

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
174-71014			181-18	1	
174-71014-10			181A-20	1	
174-71014-20			182-28	REF	
174-71016			181-19	1	
174-71016-10			181A-21	1	
174-71016-20			181	1	
174-71022			177	NP	
			181		
			182		
174-71031			58	NP	
			177		
			180		
			181		
			182		
174-71033			180A-3	2	
174-71040-1			181A-12	1	
174-71040-10			181A	1	
174-71040-2			181A-46	1	
174-71040-20			181A	1	
174-71040-3			181A-48	1	
174-71040-30			181A	1	
174-71040-4			181-10B	1	
174-71040-40	1AMF	1560-657-8924	181	1	
174-71050-1			7	2	
			8-20		
174-71050-10	1AMF	1560-657-8925	7-19	2	
			9		
174-71050-2			13	2	
			14-35		
174-71050-20	1AMF	1560-657-8926	13-28A	2	
			14		
174-71050-3			182A-15	1	
174-71050-30	1AMF	1560-649-5636	182A	1	
174-71055			180A	2	
174-71055-3			180A-45	2	
174-71056-10			180A-6	2	
174-71056-20			180A-7	3	
174-71056-30			180A-8	1	
174-71056-40			180A-9	1	
174-71056-50			180A-10	1	
174-71058			180A-5	1	
174-71060-1			8-21	1	
174-71060-10			8	1	
174-71060-2			14-37	1	
174-71060-20			14	1	
174-71060-3			182A-13	1	
174-71060-30			182A	1	
174-71061			181-2	2	
			181A-3		
174-71064-13			177A-19	2	
174-71064-3			176-33A	1	
174-71064-5			184-3	2	
174-71064-7			177-19	2	
174-71070			177A	1	
174-71070-1			177A-10	1	
174-71091			58	NP	
			177A		
			180A		
			181A		
			182A		
174-71108			53	1	
174-71122			177	NP	
174-71131			83	NP	
			177		
			180		
			181		
			182		
174-71182			182	NP	
174-71191			83	NP	
			177A		
			180A		
			181A		
			182A		
174-71231			62	NP	
			181A		
174-71331			51	NP	
			180A		
174-71431			51	NP	
			177A		
			180A		
			182A		
174-73005	1AMF	1560-649-5639	253	1	
174-73005-15			253	1	
174-73005-17			253	1	
174-73005-23			253	2	
174-73510	1AMF	1560-035-2513	67	1	
174-74014-20			181	1	
174-89131			266A	1	
174-89131-10			266A-29	1	
			266B	REF	
174-89131-20			266A-30	2	
			266C	REF	
174-89131-30			266A-31	1	
			266D	REF	
174-89145			266A	1	
174-89173			266D	1	
18E33-1A			150-21	REF	
			151-4	REF	
181XAX-S3			179-41	REF	
18420-0-110			190-47	1	
18420-0-300			196-3	1	
18423-0-375			196-4	1	
187-54984-3			193	1	
1871-12			157-7	REF	
			158-17	REF	
19-54046			159-20	2	
190N			158-30	REF	
1962-4-.36			125-8	2	
			129-5		
2-141	5330	292-0625	153-58	4	
			154-57		
			155-16		
			156-16		
2-2150-80			191-9	1	
2B1-1-2	1AMB	6150-669-5498	161-16	1	
2B1-6-10			164-3	1	
2B1-6-12			164-2	13	
2B1-6-9			166-4	1	
2B1B1-2			168-42	2	
2B1B10-2	6150	635-7160	266-11	1	
2B1B2-2	6150	635-4395	266-9	2	
2B1C6-8			263-59	1	
2B2C12			266B-39	1	
2B2C7	1AMB		263-13	1	
2B800-46			253-15	REF	
2B800-46A			253-15	REF	
2B800-78			253	REF	
2C1565-91A			100-14	1	
2J1	5935	333-9115	23-29	2	
2L22005			127-27	1	
2L7-2	5940	246-9483	152-38	3	
2P-R400BRDC			90	REF	
2P-R400BRDC1			90	REF	
2P5-6			36-26	10	
2T4795	6590	107750-454	260-22	4	
2W1-0-9-63			225-11	1	
2W1-12-20-63	1AMB	5310-166-8789	83-29	4	
2W1-12-24-63			45-20	8	
2W1-12-32-63			45-4	4	
2W1-13-16-32	1AMB	5310-217-7785	214-20	3	
2W1-13-20-31	1AMB	5310-217-7792	212-44	4	
2W1-13-20-32	1AMB	5310-215-7647	214-5	4	
2W1-13-22-64			212-3	AR	
2W1-130-80-32	1AMB		198-51	6	
2W1-130-84-32	1AMB	5310-285-8102	198-49	2	
2W1-16-26-62			8-4	2	
2W1-16-28-65			261-5	8	
2W1-16-30-93	1AMB	5310-616-3167	36-14	2	
2W1-16-32-93	1AMB	5310-579-4541	200-19	6	
2W1-17-20-31			232-5	1	
2W1-17-28-32			229	REF	
2W1-20-20-32	1AMB	5310-217-7820	214-13	3	
2W1-20-20-64	1AMB	5310-215-7672	67-42	2	
2W1-20-26-62			7-4	2	
2W1-21-18-16	1AMB	5310-616-3158	237-39	3	
2W1-21-44-125	1AMB	5310-616-3159	200-33	8	
2W1-24-20-10	1AMB		228-23	AR	
2W1-24-20-40			66-7	2	
2W1-24-20-5			228-24	AR	
2W1-24-22-10			6	AR	
2W1-24-22-5			6-22	AR	
2W1-24-24-40			42	12	
2W1-25-18-16			237-44	3	
2W1-25-24-63	1AMB	5310-639-1202	89	2	
2W1-28-36-62	1AMB	5310-616-3157	117-63	2	
2W1-28-44-32	1AMB	5310-209-2988	214-42	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
2W1-32-28-62		1AMB-5310-616-2252	203-12	2	
2W1-34-48-64		1AMB-5310-515-7750	89-5	4	
2W1-36-28-93			242-5	2	
2W1-36-44-63			217-20	1	
2W1-40-28-16		1AMB-5310-215-7728	228-28	1	
2W1-40-28-31		1AMB-5310-217-7839	228-29	1	
2W1-40-32-62			228-28	1	
2W1-40-44-63			217-10	1	
2W1-44-41-64		1AMB-5310-637-3216	213-4	1	
2W1-45-36-62			47-18	3	
2W1-52-32-32			209-25	1	
2W1-52-36-32		1AMB-5310-209-4730	209-7	13	
2W1-58-39-64			251-34	6	
2W1-58-48-14		1AMB-5310-205-8950	213-7	AR	
2W1-58-48-64		1AMB-5310-209-2246	213-6	2	
2W1-60-36-63			198-12	2	
2W1-80-56-63		1AMB-5310-215-7749	211-52	1	
2W1ALP14-20-64			214-51	2	
2W1AL10-24-32			183-22	2	
2W1AL12-18-91			89-12	2	
2W1AL13-18-032			206-33	2	
2W1AL13-24-12			89-26	AR	
2W1AL13-24-250		1AMB-5340-640-7068	135-17	2	
2W1AL14-24-51		1AMB	105-2	4	
2W1AL16-14-91			51-13	2	
2W1AL16-24-64		1AMB-5310-217-7921	32-32	4	
2W1AL16-32-32		1AMB-5310-209-6391	200-20	AR	
2W1AL17-24-64		1AMB	13-12	16	
2W1AL17-28-64		1AMB	240-27	8	
2W1AL17-32-12			266D-16	AR	
2W1AL17-32-16			266D-15	AR	
2W1AL18-24-64		1AMB	195-14	1	
2W1AL18-40-64			195-12	REF	
2W1AL20-18-51			101-40	2	
2W1AL20-32-64		1AMB	28-2	24	
2W1AL24-21-62			143-32	1	
2W1AL25-28-64		1AMB-5310-033-7212	13-13	3	
2W1AL25-40-64		1AMB-5310-639-4981	64-15	3	
2W1AL26-30-64		1AMB-5310-637-3434	32-33	4	
2W1AL27-22-20			219-32	1	
2W1AL27-22-40		1AMB-5310-637-2186	214-74	1	
2W1AL28-24-51			149	1	
2W1AL37-30-64			137-22	1	
2W1AL38-30-64			130-12	1	
2W1AL40-32-125		1AMB-5310-531-0813	211-60	1	
2W1AL48-36-64		1AMB-5310-094-6856	120-28	2	
2W1AL58-39-64			251-47	2	
2W1AL66-42-32		1AMB-5310-215-7770	200-62	AR	
2W1B16-15-16		1AMB-5310-584-5673	79-25	AR	
2W1B17-20-16		1AMB-5310-209-1945	73-6	AR	
2W1B17-20-32		1AMB	73-7	AR	
2W1B20-22-125		1AMB	201-28	6	
2W1B20-32-31		1AMB-5310-641-9482	98-5	1	
2W1B24-22-20		1AMB-5310-215-7790	115	AR	
2W1B26-20-32		1AMB-5310-205-9277	214-60	2	
2W1C13-20-32		1AMB-5310-215-5846	86-17	2	
2W1C13-32-32		1AMB-5310-215-5850	226-3	2	
2W1C130-80-12		1AMB-5310-286-2783	198-52	AR	
2W1C17-13-80			232-6	1	
2W1C17-16-16			261-32	2	
2W1C17-20-28			84-20	4	
2W1C17-32-14		1AMB-5310-205-9201	50-35	12	
2W1C20-20-28			84-11	3	
2W1C22-25-32		1AMB-5310-515-7798	72-24	2	
2W1C22-36-32			226-8	1	
2W1C23-20-20			64-27	1	
2W1C40-40-93			84-19	5	
2W1C45-32-32			95-12	2	
2W1C48-42-32			228	AR	
2W1C48-48-125			260-45	2	
2W1C52-46-20			176-11	1	
2W1C72-48-14		1AMB-5310-215-7853	211-69	AR	
2W1C72-48-32		1AMB-5310-215-7854	211-70	AR	
2W1C72-48-63		1AMB	211-71	AR	
2W1LB40-44-62			217-9	AR	
2W1LB41-32-62		1AMB-5310-209-6817	214-33	AR	
2W1LB44-40-62			217-16	AR	
2W1LB94-56-16			198-46	AR	
2W1P0-53-62			147	1	
2W1P12-14-062			168-65	2	
2W1P12-16-156			144-25	8	
2W1P14-20-94		1AMB-5330-033-7233	254-22	8	
2W1P9-12-40			170-19	3	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
2W1SR20-63			98-4	1	
2W13-4		5310-331-5007	220-19	6	
2W17-10		1AMB-5310-215-7874	88-10	3	
2W18-10		5310-215-7883	155	4	
2W18-10L		5310-215-7884	266D-3	4	
2W18-416		5310-215-7888	229-39	14	
2W284-1-32-93			214-32	2	
2W2SP13-14-281			214-11	1	
2W2SP13-14-343		1AMB	214-8	1	
2W6-042-10		1AMB	157	2	
2Z3602-2			176-8	1	
2Z7226-151A			175-12	REF	
2Z7226-153A			175-10	REF	
2Z7250-16			175-33	REF	
200-43021		1AMF-1560-327-2780	231-20	1	
200-73314		1AMB	189-44	1	
200-73315			189-43	1	
200AC10			143-38	27	
20071			246-7		
			26-26	4	
2062-84		5935-491-7612	32-23		
			158-9	3	
20985			266B-49		
			119-42	2	
			123-10		
2103-11			152-48	REF	
2103-7			157	REF	
21089			157	REF	
211543			39-20	1	
212-16D			140-9	2	
			247-40	4	
21376			248-9		
2153-04-00			121-37	1	
21675-2.500-1			183-15	2	
			40-37	4	
21675-2.968-1			41-32		
21675-3.687-1			37-10	2	
			37	REF	
21675-3.875-2			200-41	2	
2182-18		5935-303-3465	37	2	
22K1-048		6500-485750	19-5	2	
			233-37	4	
			233-49		
			234-38		
2209-10			234-49		
2209-8		5935-258-0406	265-7	1	
			182-20	1	
22760-10-7.500			182A-22		
22760-10-7.625			142-14	REF	
22760-12-10.375			142-14	REF	
22760-12-12.250			142-13	REF	
22870			142-13	REF	
22908			136-32	2	
			70-16	4	
23560			71-17		
			70-14	4	
237EAU		3380-077552370	71-15		
			161-3	9	
23796			168-41		
23906-2			266-8		
24536-2			72-12	2	
251-16D			135-22	REF	
25370			135-22	1	
26C02			248-7	1	
262			127	1	
263C			8-30	42	
270-8		8850-190832	253	REF	
			253	REF	
28075A			153-34	2	
28605A			154-34		
2864			250-40	REF	
2864A			143-28	REF	
			91-14	REF	
290-16D			91-14	1	
29500-3			92-22		
295111-148			248-6	1	
295111-148			135-22	REF	
295111-20A			13-31	4	
			14-32		
295134-12A			13-32	4	
295134-14A		5325-281-2327	14-33		
			8-24	1	
			130-7	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
295134-20A		6700-280700-614	150-28	4	
			151-36		
			2668-58		
295134-24A			189-35	1	
295134-28A			7-18	2	
			8-27		
295202-16A		6700-280700-312	91-33	1	
			92-35		
29802			247-26	1	
29942			40-43	3	
			151-44		
3D84-298			162-20	1	
3DKB1250			179-43	1	
3D1		1AMB-1560-376-6535	36-29	9	
3F2-4		1AMB-1560-123-7969	52-49	4	
3H2-16-15		6600-380624-68	248-17	6	
3H2-16-9			223-41	6	
3H2-20-5			190-27	1	
3H2-24-12			197-4	2	
3H2-6-11			26-19	2	
3H2-8-104			121-43	3	
3H2-8-16		4720-815-1638	247-43	1	
3H2-8-30			247-42	1	
3H2L10-14			251-18	8	
3H2L10-21			251	1	
3H2L10-38			251-29	1	
3H2L10-44			251	1	
3H2L4-44			223-44	1	
3H2L8-13			251-21	1	
3H3-12-17 1/2			32-1	2	
3H3-4-24			137-11	1	
3H3-4-28			137-10	1	
3H3-6-13			130-1	1	
3H3-6-14			130-4	1	
3H3-6-15 3/4			38-3	1	
3H3-6-22 1/2			38-4	1	
3L1		1AMB	89-14	4	
3RW11113			167-11	3	
			168-17		
			168-47		
3RW12302			167-13	3	
			168-23		
			168-53		
3RW12915			167-16	3	
			168-19		
			168-56		
3RW15305			167-18	3	
			168-21		
			168-58		
3RW16506			167-8	6	
			168-15		
			168-60		
			172-16		
3S9		1AMB-1560-323-6372	158-43	1	
3V7-12-24-4			147-47	1	
3V7-12-24-5			147	1	
30024-2			143-28	REF	
3011			189	REF	
30112			163-1	1	
302A16			248-8	1	
302001			266G-10	1	
302042			266G-13	1	
304E437-255-062			121-31	2	
311250			141-51	1	
311546			137-9	4	
			138-27		
3122-11		2301	100	REF	
318		6350-261-9190	147-46	1	
31882		5940-665-6237	112-19	4	
32-1452-064			50-20	2	
32-1452-070			3-4	2	
32-1452-080			56-6	1	
32-1452-098			5-11	6	
32E01-1			144-54	REF	
32E01-1A			144-54	REF	
32E01-2A			144-54	REF	
320-625-2.000S			153-1	2	
			154-1		
325-625-3.250S			153-2	5	
			154-2		
			212-50		
325-625-3.500S			153-3	2	
			154-3		
325-625-3.750S			200-42	2	
326-4-.1			125-41	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
327		6240-155-7836	146-31	REF	
			148-43	35	
			149-21		
			163-6		
			175		
			181		
			210-35		
			181A		
3419-5A-A1			100-9	1	
3509		4907-6140-328-3857	158-45	1	
360-9571-16-23 7/8			247-28	1	
360-9571-20-23 1/2			247-28	REF	
360T94756			258-17	2	
360U3942			258-25	2	
36638		4851	250-40	REF	
36837		4851-1650-095-1264	125-14	2	
			129-12		
3985294			246-14	1	
3985435		4502	2	5	
			26-24		
			32-20		
			246-13		
397-4		5940-642-1376	266F	1	
4-2050-77		4831	250-53	1	
4812-6		1AMB-3120-524-3735	117-22	28	
4816CF4-8			73-5	29	
4818-3-64		1AMB-3120-288-4595	59-51	2	
4818-4-64		1AMB-3120-662-0252	83	2	
4818-5-102		1AMB-3120-288-4990	55-13	2	
4818-5-125			214-16	2	
4818-6-125		1AMB	44-32	1	
4818-6-40		3120-693-6677	214-54	1	
4819B3-004		1AMB-3120-288-5224	138	1	
4819B3-008		3120-288-5226	25-19	4	
4819B3-016		1AMB-3120-288-5218	138	1	
4819B3-104		1AMB-3120-288-5217	89-57	1	
4819B4-008		1AMB-3120-288-5219	79-30	1	
4819B5-005		1AMB	79-34	2	
4819B5-012			79-24	1	
4819B6-010		3120-288-5220	214-73	2	
4819B6-012		1AMB-3120-288-5222	79-26	3	
4819B8-007		1AMB	24-9	2	
4819B8-009		1AMB	15-6	8	
4819S10-016			47-51	8	
4819S10-022		1AMB-3120-288-5207	43-9	2	
4819S10-030		1AMB-3120-524-3809	22-23	2	
4819S12-015		1AMB-3120-288-5208	22-25	8	
4819S12-030		1AMB-3120-293-5483	22-22	2	
4819S14-015			19-35	4	
4819S14-031		1AMB-3120-293-5479	19-33	6	
4819S3-004		3120-288-5211	20-8	14	
4819S3-005			212-15	1	
4819S3-006		3120-288-5210	212-10	7	
4819S3-008		1AMB-3120-287-9550	212	4	
4819S3-030			88-15	2	
4819S4-007		1AMB-3120-287-9544	88-18	2	
4819S4-008		1AMB-3120-287-9543	199-25	4	
4819S4-010		1AMB-3120-235-3878	200-16	2	
4819S4-102		1AMB-3120-288-4992	238-33	2	
4819S4-108		1AMB	238-36	2	
4819S5-007		1AMB-3120-287-9542	78-58	1	
4819S5-008		1AMB-3120-287-9541	199-27	4	
4819S5-018		1AMB-3120-287-9540	105-10	1	
4819S5-019		1AMB-3120-287-9539	105-9	2	
4819S5-021		1AMB-3120-287-9538	244-5	4	
4819S6-004		3120-524-3810	244-14	2	
4819S6-006		1AMB-3120-287-9537	86-2	2	
4819S6-009		1AMB-3120-662-5858	237-4	5	
4819S6-026			244-15	1	
4819S8-013		1AMB	47-52	4	
4819S8-024		1AMB-3120-662-5568	44-30	2	
4819S9-013		1AMB	47-53	8	
4819S9-015		1AMB	47-55	1	
4819S9-017		1AMB	47-54	1	
4819S9-024		1AMB	86-10	1	
4820B10-012		1AMB-3120-662-0318	113	1	
4820B4-006		1AMB-3120-693-6688	79-12	1	
4820B5-005		1AMB-3120-662-0346	212-46	2	
4820B6-009		1AMB-3120-662-0920	15-14	14	
4820B6-010		1AMB-3120-662-0325	59-60	2	
4820B6-011		1AMB-3120-662-0343	199-5	2	
4820B7-018		1AMB-3120-662-0344	191	2	
4820B8-007		1AMB-3120-662-0007	24-9	1	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	USABLE ON CODE
4B20S10-024		3120-662-0317	228-56	2	
4B20S12-013		1AMB-3120-662-0345	228-34	1	
4B20S4-005		1AMB-3120-662-0034	88-17	4	
4B20S4-011		1AMB-3120-662-0781	116-41	2	
4B20S5-014		1AMB-3120-662-0349	213-42	2	
4B20S5-018		1AMB-3120-662-1583	212-36	2	
4B20S5-028		1AMB-3120-662-1171	25-11	4	
4B20S6-008		1AMB-3120-697-0246	43-11	4	
4B20S6-014			228-16	1	
4B20S7-008		1AMB-3120-662-6144	117-15	2	
4B20S7-012		1AMB-3120-662-6145	24-10	4	
4B20S9-012			65-23	REF	
4B20S9-014			82-5	REF	
4B20S9-019		1AMB-3120-510-2097	65-39	REF	
4B21B3-008		1AMB-3120-287-9495	55-9	3	
4B21B3-028		1AMB-3120-287-9493	116-29	1	
4B21B4-108		1AMB-3120-288-5324	116-34	1	
4B21B4-222		1AMB-3120-287-9498	111-12	2	
4B21S3-003		3120-288-4898	206-38	2	
4B21S3-004		3120-288-4899	83-30	4	
4B21S3-005		3120-288-4582	237-41	2	
4B21S3-007		1AMB-3120-288-5251	83-33	2	
4B21S3-008		3120-288-4920	78-59	4	
4B21S3-011		3120-288-5258	214-7	1	
4B21S3-012		3120-293-5422	214-10	1	
4B21S3-014		1AMB-3120-293-5500	238-49	2	
4B21S3-019		1AMB-3120-293-5496	105-11	2	
4B21S3-025		3120-293-5418	105-8	2	
4B21S3-204		1AMB-3120-293-5438	244-6	2	
4B21S4-007		1AMB-3120-288-5367	242-22	1	
4B21S4-008			237-45	2	
4B21S4-010		1AMB-3120-293-5445	238-18	10	
4B21S4-012		1AMB-3120-693-6720	52-39	2	
4B21S4-015		1AMB-3120-293-5424	75-13	1	
4B21S4-017		1AMB-3120-288-4998	228-26	2	
4B21S4-027		1AMB-3120-288-4634	244-28	2	
4B21S4-100		1AMB-3120-555-5903	42	2	
4B21S4-101		3120-293-5451	42-17	1	
4B21S4-104		1AMB-3120-288-4917	42-29	4	
4B21S4-116		3120-693-6722	13-14	3	
4B21S4-13			66-4	2	
4B21S6-122		1AMB-3120-288-4572	42-21	1	
4B21S7-125		1AMB-3120-288-5182	47-25	1	
4H1			255-29	1	
4L1966			231-30	1	
4S3-10-14		1AMB-5340-302-8887	191	1	
4S3-10-18			138-41	1	
4S3-10-20		1AMB-5340-302-8890	51-25	2	
4S3-10-25		1AMB-5340-302-8893	191-4	1	
4S3-10-26			65-19	1	
4S3-10-44		1AMB-5340-302-8900	118-59	4	
4S3-10-6		1AMB-5340-302-8904	199-50	8	
4S3-416-10			26-35	4	
4S3-416-20			26-37	4	
4S3-8-44			12-14	REF	
4S3D10-10			51-21	1	
4S3D10-21			121-18	4	
4S3D10-4		1AMB-5340-302-8971	51-16	2	
4S3D10-48		1AMB-5340-302-8974	118-54	4	
4S3D10-92			186-10	1	
4S3D416-17			93-3	2	
4S3D416-55			110-28	REF	
4S3D8-14			183-4	3	
4S3D8-16		1AMB-3120-125-1430	101-24	2	
4S3P6-23			263-30	2	
4S4-12-30		1AMB-5340-580-9346	89-7	2	
-S4-6-18		1AMB-5340-640-8050	84-37	3	
S4-6-5		1AMB-3120-125-1480	132-12	1	
54-6-7		1AMB-5340-125-1481	132-11	1	
-8-27			113-14	REF	
--8-8		1AMB-3120-125-1394	89-36	2	
4D4-22			219-23	1	
4D4-32		1AMB-5340-125-1311	219-24	1	
54D4-4		1AMB-5340-125-1357	75-25	2	
54D4-43			78-26	1	
54D6-12			227-8	1	
54D6-18			82-11	2	
54D8-8			109-8	2	
-3-0.156			74-22	1	
56-4-.469			106-27	1	
56-4-0.187			109-23	1	
56-5-.187			12-19	2	
56-8-312			111-35	4	

PART NUMBER	STOCK NO CLASS CODE	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	USABLE ON CODE
4S6-8-400			36-12	2	
4S7-1-1.028			219-16	1	
4S7-1-1.031			219-35	1	
4S7-1-1.968			74-37	1	
4S7-11-1.250			203-15	2	
4S7-11-891			36-36	2	
4S7-2-1.968			36-16	2	
4S7-4-2.134			110-45	1	
4S7-5-1.032		5340-602-1697	4-14	1	
4S7-5-1.657		5340-602-5361	116-46	1	
4S7-7-1.031			78-61	1	
4S7-8-1.948			111-40	4	
4S7-8-2.571			114-4	1	
4S8-10-8			191-47	2	
4W2-16			211-67	1	
4091718		1AMF-1560-485-2930	246	1	
40D8445-2			144-27	1	
40D9116			136-18	REF	
			136A-35	REF	
404X19			169-17	1	
41A4104		5310-485-2932	211-66	1	
411551			140-36	2	
413360			132-25	1	
42A11521			83-22	2	
42A13995			83-21	2	
42A4298			98-22	2	
42A4307			251	2	
42A4309			251	2	
420-1.000-12.625S			199A-4	2	
4244			146-41	REF	
			146	REF	
			152-11	REF	
			153	REF	
43A19144			98-24	2	
43A19148			98-25	2	
430		6350-261-9191	146-56	1	
44B11182			260-72	2	
44B18574		5945-483-8999	172-2	1	
44B25259			259-6	REF	
			266C-5	REF	
44D11482			112-18	1	
44D27005			255-11	1	
44J12319			266D-5	REF	
44G5437			187-1	2	
44G5443			187-5	2	
4587367			161-21	REF	
			172-10	1	
45D4782			258-21	REF	
45G25670			254-19	4	
			266A-19		
450-0		4850	191-7	1	
			247-46	REF	
4513-11			157	REF	
46B12487			251-55	REF	
4600			206-24	1	
4664-1		1AMF-1560-213-4984	223-36	1	
4664-10		1AMF-1560-213-4985	224-30	1	
4664-2		1AMF-1560-213-4986	224-26	1	
4664-3		1AMF-1560-213-4987	223-37	1	
4664-4		1AMF-1560-213-4988	224-27	1	
4664-60		1AMF-1560-213-4989	224-28	1	
4664-70		1AMF-1560-613-4809	223-39	1	
4664-8		1AMF-1560-213-4990	224-29	1	
4664-80		1AMF-1560-213-4991	223-38	1	
46800-19			247	1	
46800-19P			247	REF	
47D6114-1			157-36	1	
47D6114-2			157-37	1	
47D6126-10			157-27	REF	
47D6126-6			157-28	REF	
48C4021			259-5	REF	
48132F100			234-1	1	
4815			161-21	1	
48153			82-37	1	
48189			82-36	1	
49-54045-3			159-16	2	
49-54045-4			159-17	2	
49A6549-1-1			146-37	REF	
49A6549-1-3			146-38	REF	
49B6902			178-39	REF	
49C6548-3		8870-432000-555	146	REF	
49C6548-3		8870-432000-555	147-18	REF	
			263-35	3	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
49C6548-5			146	REF	
			146-36	REF	
			147	REF	
49C6549-1-3			146	REF	
49C7573		6115-327-9270	144-27	REF	
			145-29	1	
4974Y0E134			177-26	1	
			177A-26		
4974Y0E36			177-24	1	
			177A-24		
4974Y0E39			177-25	1	
			177A-25		
5B1-14		1AMB-5306-122-1198	192-11	3	
5B1-5		1AMB-5306-285-9135	204-10	1	
5B15D10-5			101	2	
5B15D6-3			101	1	
5B15D61-9			101	2	
5B15D7-13			101	1	
5B15D7-3			101-51	3	
5B15D70-9			101	2	
5B15D83-26			101	2	
5B15D91-26			101	2	
5B16		1AMB-1560-192-3397	101-52	4	
5B17-34A			186-11	2	
5B17C11A			25	12	
5B17C4A		1AMB	25-2	92	
5B17C5A		1AMB-5306-207-7675	264-2	4	
5B17C7A		1AMB	25-33	12	
5B18C15			223-27	1	
5B18C16			223	1	
5B18C25A		1AMB	101	4	
5B2-11		1AMB	118-8	2	
5B2-12		1AMB	112-22	4	
5B2-27DH			197-19	1	
5B2-4		1AMB-5306-638-2632	116-67	1	
5B2-6		1AMB-5306-122-3453	195-4	1	
5B2-7		1AMB	195-19	1	
5B23		1AMB-5305-215-6427	150-4	4	
5B3-12		1AMB-5306-122-1213	112-44	1	
5B6-20			229-20	4	
5B6-22			229-27	4	
5W1-2			20-4	REF	
			21-4	REF	
5W1-2-35-11			19-6	REF	
5W1-6-27-12			59	2	
50D3770			187	2	
50000			232-1	1	
			233	REF	
50001			234	REF	
			235-1	1	
5019			3	12	
			179-35		
			180-51		
			180A-50		
50685			99-26	2	
51H3977-1			187-1	REF	
51073			56-7	1	
511802			213-52	1	
51798			247	1	
52-028-125-0625		5315-265-9295	192	1	
52C1533			95	2	
527-6D		4831	91	REF	
			92	REF	
530840M1			200-63	3	
			213-51		
5373X		1600-1680-094-7622	177-5	1	
			177A-3		
55B76023			191-56	1	
5724-15HPX			178-39	REF	
58A76005L			185	1	
58A76007		1AMF-1560-661-2033	185-15	1	
58A76119			163-44	1	
58A76120			163-45	1	
58F76208			271	1	
58F76208-1			271-10	10	
58F76208-10			271-24	2	
58F76208-10			272-12	2	
58F76208-11			271-18	2	
58F76208-12			271-19	2	
58F76208-13			272-1	1	
58F76208-14			271-17	14	
58F76208-15			271-23	2	
			272-19	4	
58F76208-16			271-14	1	
58F76208-17			271-2	2	
58F76208-18			271-1	1	
58F76208-19			271-7	4	
58F76208-2			271-13	1	
			272-16	2	
58F76208-20			271-9	2	
58F76208-21			271-12	1	
58F76208-22			271-8	2	
58F76208-23			271-6	2	
			272-9	5	
58F76208-24			271-20	2	
58F76208-25			271-11	2	
58F76208-26			271-22	2	
58F76208-3			271-5	8	
58F76208-4			271-4	4	
58F76208-5			271-21	2	
58F76208-7			271-15	2	
			272-18	2	
58F76208-8			271-16	2	
			272-4	2	
58F76208-9			271-3	2	
58F76213			275	1	
58F76213-1			275-6	1	
58F76213-10			275-15	1	
58F76213-2			275-3	1	
58F76213-3			275-2	1	
58F76213-4			275-11	1	
58F76213-5			275-13	1	
58F76213-6			275-10	1	
58F76213-7			275-5	1	
58F76213-8			275-14	1	
58F76213-9			275-8	1	
58G76206			276	1	
58G76206-1			276-1	3	
58G76206-10			276-13	4	
58G76206-11			276-14	2	
58G76206-12			276-4	1	
58G76206-13			276-11	1	
58G76206-14			276	1	
58G76206-15			276-15	2	
58G76206-16			276-16	2	
58G76206-17			276-17	2	
58G76206-18			276-8	2	
58G76206-19			276-10	3	
58G76206-2			272-42	1	
			276-9	2	
58G76206-20			276-12	3	
58G76206-21			276-7	4	
58G76206-3			276-3	1	
58G76206-4			276-2	1	
58G76206-5			269-33	1	
			273-4	1	
			276-19	1	
58G76206-6			276-5	2	
58G76206-7			269-32	1	
			269-34	2	
			269-9	1	
			273-5	1	
			276-20	1	
58G76206-8			276-6	2	
58G76206-9			273-3	1	
			276-18	1	
58G76207			273	1	
58G76207-1			273-1	1	
58G76207-10			273-17	1	
58G76207-11			273-8	1	
58G76207-13			273-16	1	
58G76207-14			273-15	1	
58G76207-15			273-12	1	
58G76207-16			273-13	1	
58G76207-2			273-6	1	
58G76207-3			273-2	1	
58G76207-4			273-9	1	
58G76207-5			273-18	1	
58G76207-6			273-14	1	
58G76207-7			273-10	1	
58G76207-8			273-11	1	
58G76207-9			273-7	2	
58H76209			272	1	
58H76209-1			272-14	1	
58H76209-10			272-24	2	
58H76209-11			272-5	2	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	USABLE CODE
58H76209-12			272-43	2	
58H76209-13			272-44	2	
58H76209-14			272-49	2	
58H76209-15			272-8	1	
58H76209-16			272-32	1	
			274-29	1	
58H76209-17			272-34	1	
58H76209-18			272-33	1	
58H76209-2			272-36	2	
58H76209-20			272-28	4	
58H76209-21			272-31	1	
58H76209-22			272-41	2	
58H76209-23			272-38	1	
58H76209-25			272-3	6	
58H76209-26			272-2	4	
58H76209-27			272-11	2	
58H76209-29			272-45	2	
58H76209-3			272-40	1	
58H76209-31			272-7	1	
58H76209-32			272-13	1	
58H76209-33			272-46	2	
58H76209-34			272-17	2	
			272-37	2	
58H76209-35			272-20	2	
58H76209-36			272-35	2	
58H76209-38			272-26	2	
58H76209-39			272-21	4	
58H76209-4			272-39	1	
58H76209-40			272-23	2	
58H76209-41			272-25	2	
58H76209-43			272-47	3	
58H76209-44			272-48	1	
58H76209-45			272-15	1	
58H76209-46			272-30	2	
58H76209-47			272-50	1	
58H76209-5			272-6	1	
58H76209-6			272-27	1	
58H76209-7			272-10	1	
58H76209-8			272-22	8	
58H76209-9			272-29	2	
58H76210			274	1	
58H76210-1			274-9	1	
58H76210-10			274-26	1	
58H76210-11			274-27	1	
58H76210-12			274-1	1	
58H76210-14			274-21	1	
58H76210-15			274-25	1	
58H76210-16			274-18	1	
58H76210-17			274-23	1	
58H76210-18			274-3	1	
58H76210-19			274-10	2	
58H76210-2			274-22	1	
58H76210-20			274-11	1	
58H76210-21			274-35	1	
58H76210-22			274-5	1	
			275-1	1	
58H76210-23			274-16	1	
58H76210-24			274-4	1	
			275-4	1	
58H76210-25			274-37	1	
58H76210-26			274-33	1	
			275-12	1	
58H76210-27			274-28	1	
			275-7	1	
58H76210-28			274-15	1	
58H76210-29			274-30	1	
8H76210-3			274-34	1	
8H76210-30			274-2	1	
8H76210-31			274-8	1	
H76210-32			274-24	1	
H76210-34			274-36	1	
			275-9	1	
H76210-35			274-14	1	
76210-36			274-13	2	
76210-37			274-20	1	
76210-38			274-19	1	
76210-39			274-32	1	
76210-40			274-38	1	
76210-5			274-6	1	
76210-6			274-7	2	
76210-7			274-17	1	
76210-8			274-31	1	
76210-9			274-12	1	

PART NUMBER	STOCK NO. CLASS CODE	STOCK NO. SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	USABLE CODE
58J76210-28			271-25	2	
58J76211			267	1	
58J76211-1			269-21	1	
			269-36	1	
			269-38	1	
58J76211-10			268-29	1	
58J76211-100			269-4	1	
58J76211-101			268-12	1	
58J76211-102			269-40	1	
58J76211-103			270-15	1	
58J76211-104			270-1	1	
58J76211-105			270-2	1	
58J76211-108			269	1	
58J76211-109			269-22	1	
58J76211-11			268-14	1	
58J76211-110			269-8	1	
58J76211-111			269-25	1	
58J76211-112			270-9	1	
58J76211-113			269-16	1	
58J76211-114			269-31	1	
58J76211-115			269-13	1	
58J76211-116			270-30	1	
58J76211-117			270-3	1	
58J76211-118			269-5	1	
58J76211-119			269-26	1	
58J76211-12			268-7	1	
58J76211-120			269-41	1	
58J76211-121			269-30	1	
58J76211-122			269-29	1	
58J76211-123			269-42	1	
58J76211-124			269-14	1	
58J76211-125			269-35	1	
58J76211-126			270-32	1	
58J76211-127			270-33	1	
58J76211-128			268-15	1	
58J76211-129			268-16	1	
58J76211-13			269-28	1	
58J76211-130			268-26	1	
58J76211-131			270-14	1	
58J76211-132			268-39	1	
58J76211-133			269-56	1	
58J76211-134			269-57	1	
58J76211-135			268-21A	1	
58J76211-137			270-11	1	
58J76211-138			268-30	2	
			269-39	2	
58J76211-139			269-37	1	
58J76211-14			269-27	1	
58J76211-140			268-37	1	
58J76211-141			268-38	1	
58J76211-142			269-28A	1	
58J76211-143			269-28B	1	
58J76211-144			269-28C	1	
58J76211-145			269-46A	1	
58J76211-146			269-46B	1	
58J76211-147			269-46C	1	
58J76211-148			269-46D	1	
58J76211-149			268-6B	1	
58J76211-15			269-47	1	
58J76211-16			270-28	1	
58J76211-17			268-3	1	
58J76211-18			269-50	1	
58J76211-19			268-24	1	
58J76211-2			270-6	1	
58J76211-20			270-5	1	
58J76211-21			268-18	1	
58J76211-22			268-9	1	
58J76211-23			268-10	1	
58J76211-24			269-46	1	
58J76211-25			269-44	1	
58J76211-26			269-53	1	
58J76211-27			268-13	1	
58J76211-28			269-49	1	
58J76211-29			269-55	1	
58J76211-3			267-1	1	
58J76211-31			270-24	1	
58J76211-32			270-10	1	
58J76211-33			269-17	1	
58J76211-34			270-19	1	
58J76211-35			269-51	1	
58J76211-36			270-31	1	
58J76211-37			269-20	1	
58J76211-38			268-8	1	

PART NUMBER	STOCK NO CLASS	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
58J76211-39			270-22	1	
58J76211-4			270-34	1	
			273-19	1	
			276-21	1	
58J76211-40			270-18	1	
58J76211-41			268-36	1	
58J76211-42			268-27	1	
58J76211-43			270-44	1	
58J76211-44			269-28	1	
58J76211-45			269-21	1	
58J76211-46			269-11	1	
58J76211-47			269-12	1	
58J76211-48			269-5	1	
58J76211-49			269-24	1	
58J76211-51			269-35	1	
58J76211-50			271-13	1	
58J76211-52			271-26	1	
58J76211-53			269-26	1	
58J76211-54			269-33	1	
58J76211-55			269-25	1	
58J76211-56			269-23	1	
58J76211-57			269-13	1	
58J76211-58			271-7	1	
58J76211-59			269-43	1	
58J76211-60			270-35	1	
58J76211-61			269-34	1	
58J76211-62			268-20	1	
58J76211-63			270-12	1	
58J76211-64			269-31	1	
58J76211-65			270-22	1	
58J76211-67			269-10	1	
58J76211-69			270-20	1	
58J76211-70			269-3	1	
58J76211-71			269-23	1	
58J76211-72			269-45A	1	
58J76211-73			269-9	1	
58J76211-74			269-10	1	
58J76211-75			270-37	2	
58J76211-76			269-32	1	
58J76211-78			269-19	1	
58J76211-79			269-22	1	
58J76211-80			271-17	1	
58J76211-81			269-33	1	
58J76211-82			268-6	1	
58J76211-86			269-11	1	
58J76211-87			269-6A	1	
58J76211-88			269-52	1	
58J76211-89			270-16	1	
58J76211-90			268-44	1	
58J76211-91			269-23	1	
58J76211-92			269-54	1	
58J76211-93			269-18	1	
58J76211-94			268-17	1	
58J76211-95			269-15	1	
58J76211-96			270-8	1	
58J76211-97			268-31	1	
58J76211-99			269-7	1	
58J76212			270-29	1	
58J76212-1			267	1	
58J76212-2			267-2	1	
58J76212-3			267	1	
58J76212-5			267-6	1	
58J76212-6			267-7	1	
58J76212-7			267-3	1	
58J76212-9			267-5	1	
58SCB161	1AMF-1560-675-0342		267-4	1	
			181	1	
59FH832	6500-513296-27		181A 80-15	REF	
			80-27	REF	
			186A-8	2	
6-549-83			26-8	2	
60A			253	REF	
60B	4940		253	REF	
60B91567			266G-17	1	
60B91569			266G-6	2	
60B91573			266G-1	3	
60B91574			266G-14	1	
60B91574			266G-5	1	
60B91575			266G-3	1	
60C91549-101			181B-1	1	
60C91549-103			181B-5	1	
60C91562			181B-31	1	
60C91566-101			266G-21	1	
60C91566-102			266G-22	1	
60C91579			266G	1	
60C91581			266G	NP	
60C91627			181B-7	1	
60C91628			181B-3	1	
60C91629			181B	1	
60C91630			181B	1	
60C91631			181B-14	1	
60C91632			181B-16	1	
60C91633			181B-18	1	
60C91634			181B-20	1	
60C91635			181B-22	1	
60C91678-109			181B-9	2	

PART NUMBER	STOCK NO CLASS	STOCK NO SERIAL OR PART NO	FIGURE AND INDEX	QTY PER ART	SOURCE CODE
60D91563			181B	1	
60D91563-10			181B	1	
60D91563-20			181B	1	
60D91578			266G-24	1	
60E91637			273-20	1	
			181B-13	1	
60E91655			181B	1	
60E91655			181B	1	
60J91561			181B	NP	
60J91561-10			181B	NP	
60J91561-20			181B	NP	
60J91573			266G	2	
60-1H170A			157-17	REF	
			159-35	REF	
60-1H171A			169-38	REF	
			253	REF	
61-3339			242-45	REF	
			242-46	REF	
			243-36	REF	
			243-37	REF	
61-[illegible]	[illegible]-730-5220-5048		143	1	
61-[illegible]	[illegible]-5340-200-0319		143	1	
612NA50NM	4502		186-12	REF	
			186A-16	REF	
65-086			257-1	1	
			264-51	REF	
654514-11			100-21	1	
654514-21			100-21	1	
661102	6040		155-43	REF	
			158-10	REF	
			168-39	REF	
6611028			155	REF	
			158-10	REF	
			168-39	REF	
6620-064			22-5	8	
			23-5		
664543			34-1	1	
665263-21			100-20	1	
666-113			161-21	REF	
666-154	5945-557-2909		172	1	
67A8200			249	1	
67AF200			249	1	
6800-02	5310-596-5555		28-20	6	
			29		
6800-048	5310-596-5555		233-41	2	
			234-42		
6820-048	6500-609214		20-33	8	
			21-33		
6952K	6500-444975-5		53	4	
			82		
6952L			60	3	
			63		
			68		
7S1-10-5			115-26	2	
7S13CN832-10A	1AMB-5305-214-1109		81-23	2	
7S13CN832-12A	1AMB-5305-206-9199		81-27	6	
7S13CN832-14A	1AMB-5305-639-1992		81-24	20	
7S13CN832-16A			81	2	
7S13CN832-8A	1AMB-5305-214-1111		81-22	2	
7S14CN1032-8A	1AMB-5305-216-3213		31-2	20	
7S14CN632-8A			34-2	6	
7S16-10-17	1AMB-5305-216-3223		70-1	23	
7S16-8-14	1AMB-5305-638-3489		80-13	56	
7S16-8-18	1AMB		80-23	10	
70G7G3			162-18	REF	
7264-570			157-17	1	
			169-35	REF	
7264-570-1			169-18	REF	
740A			153-8	REF	
			154-8	REF	
750-21-2-10			247-21	1	
754E24-2-8			19-10	1	
755-16-2-8	6500		32-31	4	
755-5-2-6			183-6	1	
7590			128-16	1	
782-1-28			192-47	1	
7851-3			247-37	1	
78560	6350-261-9191		146-56	REF	
7901-1			93-22	1	
795-9	6500-327624-5		101-23	2	
8C3-2-025			18-22	2	
8C3-2-032	1AMB-1560-244-9796		17-28	16	
8C3-3-032			18-27	2	
8C3A2-025	1AMB-1560-244-9797		10-57	10	
8C3A2-032	1AMB-1560-244-9798		18-4	4	
8C3A3-032	1AMB-1560-327-2179		18	2	
8C5	1AMB-1560-199-8317		158-42	1	
8DJ13AKD33			100-18	1	
8DW53VAB10			100	REF	

PART NUMBER	STOCK NO		FIGURE AND INDEX	QTY PER ART	USABLE ON CODE
	CLASS CODE	FEDERAL STOCK NO			
8TJ9EL			155-26	1	
800-1			257-16	1	
800-4			257-20	1	
800-5			257-25	1	
801485	4890		266C-1	2	
			266E-30	REF	
801503			266E-21	1	
8101-3			247	1	
8151-2			142-30	REF	
82-54444	1AMB-1560-156-3814		150-7	1	
83-10			216-5	REF	
83-12			141-33	1	
83-13			141-32	1	
83-40			116-59	1	
83-7A			19-31	REF	
83501-1	4849		29-17	4	
			90-14		
			91-18		
			92-26		
84-12			112-37	REF	
84-36A			112-5	REF	
840104			78-34	1	
840460			266E-1	1	
85-37A			112-8	REF	
853C7BA1			223-1	REF	
870149			136-33	1	
870358			78	1	
870593			266E-29	1	
8851-2			142-30	1	
890100			266C-3	2	
8910-3			178-39	2	
8916K689	5930-548-8343		263-21	2	
			266B-26		
9-196-650			186-16	REF	
			186A-19	REF	
9-48166			4-46	2	
9-51149			4-47	2	
9C1-1-5	1AMB		11-3	2	
9C1-1-8			260-23	2	
9C1-2-5	4010-641-6453		225-19	1	
9C1-3-5			56	1	
9C1-3-6			236-23	2	
951	1AMB-1560-694-7094		96-29	5	
90-20			131-4	1	
9023			143	1	
9038			147-38	3	
			147-39		
			157-5		
9156			36-4	2	
9190-16			248-10	1	
93A22			197-5	1	
931484			260-43	4	
931491			259-2	2	
931835			258-20	2	
9324			121-36	1	
9325			121-40	1	
934-11	6600-589132		94-23	1	
934-12	6600-589135		27-18	6	
934-15	6600-589136-5		217-18	1	
934-5	6600-589127		32-34	4	
934-6	6600-589128		29-18	6	
934-7	6600-589129		94-17	2	
934-89	6600-589129-57		94-8	1	
945-4P			109-10	3	
			110-29		
950012-12-20			248-20	1	
950171-16-8-54 1/4			91-30	1	
			92-15		
950172-16-43 1/2			91-1	1	
			92		
9511135			213	2	
9520144			200	4	
			200-64		
9530303			200-28	2	
9550-20-32			247-25	1	
9555	4909		150-2	2	
			150-25		
9555A	6140-308-1315		158-34	2	
9565H2			266-14	1	
9574-20-36			247-27	1	
96-12787			224-2	1	
979449			258-21	2	
980003-24-20			224-23	1	

PART NUMBER	STOCK NO		FIGURE AND INDEX	QTY PER ART	SOURCE CODE
	CLASS CODE	FEDERAL STOCK NO			
99785-2	5315-541-1832		99-10	8	
			99-12		
99836	5315-514-1833		260-25	2	
99899-2-190	6500-916641-5275		99-11	7	
99899-5-570			99-9	1	

SECTION IV

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REFERENCE DESIG-NATION	FIGURE & INDEX	CLASS CODE OR STOCK NUMBER	PART NUMBER
2	263-7		159-54191
8	262-44		RS1C2
9	257-1		654086
	262-53		
	264-51		
10	146-11		159-54050
10	146		159-54350
11	148-19		159-54062
	149-24		
	161		
12	146-10		159-54070
12	146		159-54325
	147-6		
13	266		159-54075
14	148-22		159-54080
14	148		159-54330
	149-32		
15	144-31		159-54085
	161		
16	146-12		159-54090
	168		
17	148-18		159-54101
	149-23		
	168		
17	149		174-54100
18	144-39		159-54102
19	150-29		159-54111
19	151-10		171-54055
20	150-32		159-54114
21	144-11		159-54135
	145-10		
	162		
22	155-50		159-54141
	170		
22	158-5		171-54041
23	54-16		159-54161
	146-58		
23	54		171-54070
23	54		174-54065
24	263-7		159-54191
25	98-1		159-51005
	99		
	153-75		
	154-76		
	155-55		
	156-45		
26	146-11		159-54050
26	146		159-54350
	166		
27	147-7		171-54050
	164		
27	147		174-54350
28	146-10		159-54070
28	146		159-54325
	147-6		
	163		
29	148-22		159-54080
29	148		159-54330
	149-32		
	163		
30	151-28		159-54085-10
31	147-8		159-54090-10
	168		
32	147		AN3436-10-4
33	150-29		159-54111
33	151-10		171-54055

REFERENCE DESIG-NATION	FIGURE & INDEX	CLASS CODE OR STOCK NUMBER	PART NUMBER
34	155-50		159-54141
34	158-5		171-54041
34	158		174-54041
35	158-1		171-54045
35	158		174-54045
37	98-1		159-51005
	99		
	153-75		
	154-76		
	155-55		
	156-45		
38	147		174-54050-10
	164		
39	265-7		2209-10
39A	54-16		159-54161
39A	54		171-54070
39A	54		174-54065
40	54		174-54065
40	147-41		174-54085
	160		
41	158-1		171-54045
41	158		174-54045
43	148-18		159-54101
	149-23		
	168		
43	149		174-54100
44	147		174-54350
45	266B		174-54023
51	100-7		32529
52	100-13		AN3203V30
53	100-1		21250
54	100-8		27433
	155-26		
55	100-8		27433
	155-26		
56	100-18		21263
57	251		AN5547-2
58	100-21		27579
59	100-16		Type C5
59	100		Type C6
60	100-5		AN5790T6
61	251-13		AN5525-1
62	251-11		AN5525-2
66	100-20		21123
66	100		21174
67	98-12		21125
68	34-1		27635
	35-1		
69	98-8		21098
70	100-2		EA711ANH1
	100-3		
70	100		EA711M1
71	100		MIL-I-5133
72	98-6		EA318-1
	155-51		
	156-41		
72A	98-6		EA318-1
	155-51		
	156-41		
73	2		EA850-636
	34		
74	2		EA850-637
	34		
75	2		EA850-643
	34-18		
76	2		EA850-644
	34-19		
77	186-13		AN5766T1
78	176-56		I81L(or N)

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REFERENCE DESIG-NATION	FIGURE & INDEX	CLASS CODE OR STOCK NUMBER	PART NUMBER
[illegible]	100		ID9CA/ARN6
30	251-12		AN5531-1
30	251		AN5547-2
31	178-21		NAS45-6-10
32	178-25		NAS45-6-14
33	148-6		NAS45-6-13
35	40		AN3057-8A
36	100		AN3057-8A
36A	100		21306
36A	100-35		27433
	158-25		
37	100		AN3057-16A
37A	100-35		AN5790T6
37A	100		21296
38	40		AN3057-12A
38A	100		21174
39	40		AN3057-16A
40	263		AN3057-2[illegible]
41	35-36		EA3C4E1A1
42	35		EA1030-732
	35-3		
43	35		EA1030-733
44	35		EA1030-734
	35-25		
45	35		EA1030-735
46	35		EA1030-736
	35-26		
47	35		EA1030-737
48	266B-6		A1901BCWR
49	158		BM16718C
1[illegible]	266B-[illegible]		[illegible]
1[illegible]	266A-[illegible]		[illegible]
1[illegible]	266A-[illegible]		[illegible]
1[illegible]	266A

REFERENCE DESIG-NATION	FIGURE & INDEX	CLASS CODE OR STOCK NUMBER	PART NUMBER
206	214-68		159-54054-3
	214-26		
	219-31		
	157-38		
208	163		CM7160
209	146-31		AN3140-327
210	167-2		A4245
	168-28		
	168-63		
211	163-3		A4627
212	167-16		RW16J120
	168-19		
	168-56		
213	167-11		RW16J6R8
	168-17		
	168-47		
214	163-2		CM7060
215	163-28		CM7259
216	175-27		AN3157-3
217	263-11		AN3157-9
218	99-13		AN3157-2
219	200-44		AN3092-1
220	163-5		AN3502-2A
221	40-49		AN3033-7
221	40		AN3033-8
222	Part of	Item 221 (AN3033-7)	AN3042-3
223	Part of	Item 221 (AN3033-8)	AN3042-4
224	Part of	Item 221	AN3122-1524
225	157-37		AN3156-1
226	157-		AN3156-2
226	167-36		4726114-1
229	146-27		AN3131-303
230	157-26		AN3177-1
231	157-27		AN3177-2
232	209-23		159-54344-3
	210		
233	146-27		AN3131-303
235	(*)See Numerical Index for applicable dasn number		A4255A(*)
236A	146-28		A4255A7
	153-57		
	154-56		
	155-11		
	263-43		
	266B-18		
237	34-21		24-32294D
	72-13		
	153-73		
	154-31		
	155-28		
	156-28		
238	(*)See Numerical Index for applicable dasn number		B4235A(*)
239	157-7		AN3037-7
240	Part of	Item 239	AN3124-307
	Part of	Item 242	
241	Part of	Item 239	AN3044-1
242	153-70		AN3039-2
243	Part of	Item 242	NAF215395-1
244	163-22		AN3157-6
245	99-14		AN3121-313
248	99-16		AN3157-4
249	147-12		F2T6/360BL
	148-42		
	149-19		
	153-56		
	154-55		
	155-9		
	156-9		
251	40-22		AN3144-4505
252	162-18		AN4114-1
253	26-18		TF31400-22
254	34-6		AN5813-1
	35-13		

REFERENCE DESIG-NATION	FIGURE & INDEX	CLASS CODE OR STOCK NUMBER	PART NUMBER
255	150-15		AN3150-2
256	169-17		JAN-361
257	252-1		AN3632-1
258	144-26		94-32276B
	145-28		
259	252-2		AN4116R3
260	160-5		32660
	161-5		
261	150-21		AN3513-1
263	146-26		32462
	147-46		
264	153-28		WEE4-371
	154-28		
265	252-1		AN3632-1
267	190-57		A55AC0
269	254-19		45325870
	266A-19		
270	266-26		3237
271	266B-2		24975
272	262-39		664931
273	155-30		159-54141
	170		
274	155-43		325474
	168-16		
	168-39		
27-	155-43		661113
	168-16		
	168-39		
275	Furnished with Engine		Magneto
276	259-6		36-24946
277	255-12		Gun Camera
278	162-20		[illegible]
279	112-16		[illegible]
280	168-30		21L22964
	172-3		
281	263-67		666187
282	263-66		666187
283	151		AN3489-1
286	98-13		H01560
288	135-22		24536-2
290	41		AN3106-20-16P
291	145		AN3106-24-10P
292	263-1		AN3106-18-8S
	145		
293	254-3		AN3106-18-12S
294	176-29		PL118
295	153-34		270-3
	154-34		
296	149		AN3108-14S2S
297	265-28		AN3106-28-16P
298	252-10		AN3108-8S1S
299	252-8		AN3108-14S1S
300	153-38		AN3108-10SL3S
302	152-5		AN3106-10S2S
303	153-37		AN3106-10SL3S
304	260-39		AN3106-10SL4S
305	153-41		AN3106-14S1S
306	41-4		AN3106-14S2S
307	153-45		AN3106-14S5S
308	40-9		AN3106-18-5S
309	152-3		AN3106-18-10S
310	145		AN3106-20-27S
311	145-21		AN3106-20-29S
312	153-38		AN3108-10SL3S
313	145		AN3106-24-7S
315	152-12		AN3106-12S3S
319	252-7		AN3106-12S4S
320	40-44		102-0
322	40-24		AN3107-14S2S
323	40		AN3106-16S1S
324	40-10		AN3106-16S1P

REFERENCE DESIG-NATION	FIGURE & INDEX	CLASS CODE OR STOCK NUMBER	PART NUMBER
325	40-11		AN3106-18-8P
326	252-15		AN3106-14S8S
327	40-45		AN3106-22-14P
328	252-23		AN3106-18-2P
330	144-3		AN3106-14S7P
331	41-37		AN3106-20-29P
332	146-22		AN3106-20-12P
333	144-19		AN3106-18-1P
334	144-17		AN3106-28-11P
335	144-13		AN3106-20-12S
336	144-33		AN3106-22-14S
338	144-5		AN3106-16S8P
339	145-12		AN3106-24-28P
340	263-1		AN3106-18-3S
341	263-3		AN3106-32-13P
344	152-5		AN3106-16S2P
347	145		AN3106-24-11S
348	148-10		AN3106-24-7P
349	148-21		AN3106-20-16S
350	146-14		AN3106-14S8P
351	147-35		AN3106-18-1S
352	144-3		AN3106-14S7S
354	155-47		AN3106-24-27P
355	144-30		AN3106-16S8S
356	152		AN3106-18S3S
357	144-32		AN3106-16S8S
358	265-30		AN3106-22-14S
360	265-28		AN3106-20-18P
361	265-1		AN3106-22-24S
362	265-31		AN3106-24-19S
363	265-32		AN3106-22-14S
365	145-21		AN3106-24-24S
366	148		AN3106-14S-6S
367	41		AN3106-18-1P
368	265		P3040CT-2
368A	152-24		AN3106-16S2S
369	265		P3060CT-2
369A	147		AN3106-24-19S
372	265		P3080CT-2
371	265		P3140CT-2
372	265		P3060CT-2
372A	151		AN3106-18-11P
373	41-4		AN3106-24-22S
374	265-4		S404CT
375	265		P3020CT-2
376	265-3		P3180CT
377	265		P3150CT
378	265		S306CCT-2
379	265		P3120CT-2
380	265		P3080CT-2
381	157-19		AN2552-3
383	260-37		AN3100-12S3C
384	40-29		AN3100-18-1S
385	150-54 158-50		11751
386	Part of	Item 254	AN3115-1
387	256-2		AN3102-1-32P

REFERENCE DESIG-NATION	FIGURE & INDEX	CLASS CODE OR STOCK NUMBER	PART NUMBER
388	152-34		AN3100-14S2S
389	150-14		AN3100-16S1S
390	150-18		AN3100-18-8S
391	252-2		AN3100-14S9P
392	40-10		AN3101-14S2S
396	144-22		AN3101-22-14P
397	40-44		AN3101-24-7P
398	144-1		AN3101-18-1P
399	144-11		AN3101-28-11P
400	144-4		AN3101-20-29P
401	144-6		AN3100-36-2S
402	144-8		AN3100-16S8S
403	144-20		AN3101-28-12P
404	266-2		AN3102-32-13P
405	266-1		AN3102-20-29P
406	266-4		AN3102-28-12P
407	266B-3		AN3101-24-11P
410	146-3		AN3101-22-14S
411	144-12		AN3101-24-28S
412	146-2		AN3101-28-12S
413	144-10		AN3101-24-28S
415	144-14		AN3101-20-29S
416	144-7		AN3100-22-14S
417	146-4		AN3101-24-7S
418	144-2		AN3101-18-13P
420	144-2		AN3100-14S7S
421	144-9		AN3101-16S1S
422	266-5		AN3102-24-11P
423	266-6		AN3102-22-14S
424	266-7		AN3102-32-13S
426	146-1		AN3101-14S5S
427	148-4		AN3100-28-16S
428	148-3		AN3100-24-28S
429	148-2		AN3100-28-12S
430	148-5		AN3100-28-11P
431	144-15		AN3101-24-23P
432	144-16		AN3100-24-7S
433	144-18		AN3100-22-14P
434	144-21		AN3100-18-1P
435	144-23		AN3100-20-27P
436	144-24		AN3100-18-1P
437	144-25		AN3100-24-28P
438	144-26		AN3100-24-11P
439	144-27		AN3100-24-10S
440	41		AN3100-20-16S
441	151-35		AN3100-24-7P
442	150-46		AN3100-20-29P
444	150-47		AN3102-18-12P
445	150-5 172-6 266B-1		2062-84
446	41-35		AN3101-20-16P
448	151-36		AN3100-16-10S
450	150-7		AN3102-20-7S
451	150-9		AN3102-24-28P
453	266E		AN3155-50-150
460	266B-8		115-8
462	253-63		AN3155-25-200
463	Part of	Item 1	844
464	Part of	Item 1	12318

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1	176-33 184-3		C411/A
2	174-22 184-4		C404/A
3	178-8 184-2		C383/AIC
5	174-26 178-10 183 184-5		159-71037-5
6	174-26 178-10 183 184-5		159-71037-6
7	166-12		159-54051
10	100		ID90A/ARN6
11	176-56		I81L(or M

REFERENCE DESIG-NATION	FIGURE & INDEX	CLASS CODE OR STOCK NUMBER	PART NUMBER
12	176		LP31AM(or A)
13	176-25		BK22K(or L)
14	173-1 176-1		R5A/ARN7
16	70-46 71-46		159-71121
17	176 176-16		CG42/ARN
18	176 176-16		CG42/ARN
21	174-1 175-1		T67/ARC3
22	174-10 175-11		MT238A/ARC3
23	174-2 175-2		R77A/ARC3
24	174-13		MT237A/ARC3

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25	174-4		J68/ARC3
	175-4		
26	44-5		159-71024
	174-29		
	175-42		
28	174-20		MT236/ARC3
	175-17		
31	178-2		AM26A/AIC
33	178-1		AM142/A1C
	179-1		
	180-1		
34	178-9		F21/ARA9
	179-54		
	180-54		
36	178-38		159-71045-5
	183		
37	99-14		AN3121-313
38	99-16		AN3157-4
39	99-14		AN3121-313
40	99-16		AN3157-4
42	173-15		PL259A
	174		
	175		
	175-14		
	176-46		
	177-10		
	177A-11		
43	173-9		SC-239
45	178-39		8910-3
46	8-12		UG58/U
	8-25		
	44-17		
47	176		UG224/U
	177-15		
	177A-16		
48	173-15		PL259A
	174		
	175		
	175-14		
	176-46		
	177-10		
	177A-11		
49	174		UG21B/U
51	41-4		AN3106-14S2S
50	175-15		UG22C/U
	175-35		
	181-9		
	181-37		
52	176-26		AN3108-18-9S
53	145-18		AN3100-18-1P
54	171-9		AN3102-16S1S
55	176-19		PL112
56	176-29		PL118
57	176-13		PL122
58	174-21		PL148A
	175-32		
59	174-15		PL151A
	175-12		
60	178-24		PL152A
61	174-16		PL153A
	175-10		
62	178-24		PL152A
63	41-4		AN3106B14S2S
65	174-14		U15/U
	174-18		
	175-13		
66	174-17		U16/U
	175-33		
	179-47		
68	173-15		PL259A
	174		
	175		
	175-14		
	176-46		
	177-10		
	177A-11		
69	170-3		AN3102-20-27S
74	175-26		AN3021-3

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75	232-27		138106
	235-12		
76	178-39		8910-3
78	158-25		AN3161P5
79	164-8		AN3161P20
80	147-20		X49A6549-1-3
	263-33		
83	170-3		AN3102-20-27S
84	175-26		AN3021-3
84	150-32		NAS45-6-6
85			
86	7-17		RG8/U
87	8-19		
88	13-28		
89	14-28		
	174		
	175		
	176		
	177-16		
	181		
	182		
91	176-20		RG63/U
92	70-34		151-71023-10
	71-34		
93	176-36		MC124
94	176-34		MC124
95	176-35		MC124
96	177-27		MC203A
98	158-25		AN3161P5
99	150-36		NAS45-6-8
100	(*)See Numerical Index for applicable dash number		NAS45-6(*)
101	152-19		NAS45-6-4
102	40-3		NAS45-6-2
103	178-28		NAS45-6-14
104	150-36		NAS45-6-8
105	178-26		U61/U
	180-46		
106	178-25		WF5/U
	179-48		
	180-47		
108	40		NAS45-6-1
109	178		JK33A
110	178		A23527
	179		
	180		
117	176-22		AS215/ARN
	177-9		
	177A-9		
128	144-13		AN3106-28-12S
129	144-28		AN3101-28-12P
130	176-9		BC1333( )
131	176-49		AA25745
132	40-17		AN3054-6
133	176-51		AF22
134	176-52		AN3106-12S3P
136	176-54		AN3101-18-9P
138	176-48		P101-5/16
139	176-23		RG8/U
140	173-15		PL259A
	174		
	175		
	175-14		
	176-46		
	177-10		
	177A-11		
141	176-45		PL258
313	145		AN3106-24-7S
701	179-5		C695/A1C
	180-4		
702	177-19		C403A/A
	177A-19		
702	177-19		159-71064-7
702	177-19		174-71064-7
703	175-20		C404A/A
704	182-4		C760/A or
	182A-4		C760A/A
705	175-25		171-71028
	181-29		
	181A-36		

REFERENCE DESIGNATION	FIGURE & INDEX	CLASS CODE OR STOCK NUMBER	PART NUMBER
706	181-28		C628/ARC27
	181A-35		
707	175-25		171-71028
	181-29		
	181A-36		
707	175		171-71028-9
708	181A-43		C790/ARA26
710	100		ID250/ARN
711	100-23		ID249/ARN or
			ID249A/ARN or
			ID249B/ARN
712	98-37		ID251/ARN
713	99-16		AN3157-4
714	175-27		AN3157-3
715	178-9		F21/ARA9
	179-54		
	180-54		
716	178-15		159-71068-10
	179-3		
716	178-16		159-71068-20
	179-4		
	180-3		
717	178-25		WF5/U
	179-48		
	180-47		
718	178-26		U61/U
	180-46		
719	232		159-43005-5
720	174-32		159-43116
	175-40		
	178-42		
	235-2		
721	232-27		1381C6
	235-12		
722	(*)See Numerical Index for applicable dash number		AN3436-2-(*)
723	163-5		AN3502-2A
724	175-26		AN3021-3
725	177-2		AS313B/ARN6 or
	182-25		AS313A/ARN6
	177A-5		
726	178-1		AM142/A1C
	179-1		
	180-1		
727	179-2		AM300/A1C
	180-2		
728	177-4		R122/ARN12
	177A-2		
729	182-15		MT627/ARN14
	182A-17		
730	182-1		R252/ARN14 or
	182A-1		R252A/ARN14
731	182-9		MT628/ARN14
	182A-9		
732	182-2		DY66/ARN14 or
	182A-2		DY66A/ARN14
734	177-7		MT273B/ARN6
	177A-7		
735	177-3		R101A/ARN6
	177A-1		
736	174-4		J68/ARC3
	175-4		
737	174-1		T67/ARC3
	175-1		
738	174-2		R77A/ARC3
	175-2		
739	98-38		C1
740	176-22		AS215/ARN
	177-9		
	177A-9		
741	181-1		RT178/ARC27
	181A-1		
742	181-2		174-71061
	181A-3		
743	100		ID90A/ARN6
745	182-3		R322/ARN18
	182A-3		
746	181A-5		KY65/ARA26

REFERENCE DESIGNATION	FIGURE & INDEX	CLASS CODE OR STOCK NUMBER	PART NUMBER
750	177		AN3106M22-14S
	177A-28		
751	144-13		AN3106-28-12S
752	145		AN3106B24-28S
753	182-5		AN3106B24-28S
	182A-5		(Pos W)
754	177-11		AN3108B16S1S
	177A-12		
755	149		AN3108B14S2S
756	40		AN3106A16S1S
757	176-26		AN3108B18-9S
758	182-17		AN3106M20-29S
	182A-19		
759	174-17		U16/U
	175-33		
	179-47		
760	174-21		PL148A
	175-32		
761	174-14		U15/U
	174-18		
	175-13		
762	174-16		PL153A
	175-10		
763	174-15		PL151A
	175-12		
764	7		UG21C/U
	8		
	13-30		
	14-30		
	174		
	175-34		
	175-37		
	181-8		
	181-36		
	181-39		
	182-11		
	182-24		
	182-27		
	181A-10		
	182A-28		
765	175-15		UG22C/U
	175-35		
	181-9		
	181-37		
	181A-1		
	181A-40		
766	173-15		PL259A
	174		
	175		
	175-14		
	176-46		
	177-10		
	177A-11		
767	260-39		AN3106A10SL4S
769	182-18		AN3108M20-27S
	182A-20		
768	144-19		AN3106A18-1S
770	182-19		AN3108M14S5S
	182A-21		
771	158-7		AN3102-18-12P
771	146-14		AN3106A14S5P
772	7		UG23C/U
	8		
	14-29		
	182-12		
774	41-4		AN3106A14S2S
775	179-21A		AN3101-18-8P
776	180-37		AN3102M20-27S
	180A-37		
777	8-12		UG58/U
	8-25		
	44-17		
778	181-6		AN3108M24-5S
	181A-8		
779	181-7		AN3108M24-7S
	181A-9		
780	181-13		AN3106M24-7S
	181A-15		

REFERENCE DESIG-NATION	FIGURE & INDEX	CLASS CODE OR STOCK NUMBER	PART NUMBER
781	181-14		AN3106M24-20P
	181A-16		
782	181-15		AN3106M24-5P
	181A-17		
783	182-21		AN3102-22-4S
	182A-23		
784	40-46		AN3101-24-7P
785	177-24		4974Y0E36
786	177-26		4974Y0E134
	177A-26		
787	177-25		4974Y0E39
788	177-27		MR13B
	177A-27		
789	177-5		5373X
	177A-3		
790	177-13		CG132/ARN6
	177A-14		
791	177-14		CG405/ARN6
	177A-15		
792	176		UG224/U
	177-15		
	177A-16		
793	70-46		159-71121
	71-46		
794	8		171-71170
795	8		171-71180
796	44-5		159-71024
	174-29		
	175-42		
798	180-20		AN3303-1
	180A-27		
799	179-1		03513
	180-30		
	180A-30		
800	179-2		171-71019
	180-1		
	180A-1		
801	179-3		3DKB1250
802	179-28		171-71014
802	179		171-71014-10
802	180-27		171-71014-20
	180A-28		
803	181A-21		171-71014-10
803	182-23		171-71014-20
815	70-34		151-71023-10
	71-34		
817	182-22		AN3161P5
	182A-24		
818	180-2		S17378
	180A-2		
820	176-9		BC1333( )
821	176-9		AA25745
822	40-17		AN3054-6
823	176-51		AF22
824	176-52		AN3106-12S3P
826	176-54		AN3101-18-9P
828	176-48		P101-5/16
829	173-15		PL259A
	174		
	175		
	175-14		
	176-6		
	177-10		
	177A-11		
830	176-45		PL258
831	181A-32		AN3106M14S5S
832	182A-25		AN3106A16S1P
833	181A-31		AN3106M22-14P
834	181A-30		AN3106M22-14S
835	181		RW56G101
	181A		
835	181-26		171-71019-7
	181A-28		

REFERENCE DESIG-NATION	FIGURE & INDEX	CLASS CODE OR STOCK NUMBER	PART NUMBER
836	180		RC41AE470K
	180A		
	181		
	181A		
836	180		171-71019-5
	181-25		
	180A		
	181A-27		
837	180A-6		174-71056-10
840	180A-7		174-71056-20
841	181		171-71019-11
	181A-29		
842	180A-8		174-71056-30
843	180A-9		174-71056-40
844	180		RC41AE470K
	180A		
	181		
	181A		
844	180		171-71019-9
	180A		
847	177A-25		4974Y0E33
848	177A-24		4974Y0E30
915	232-27		138106
	235-12		
917	265-7		2209-10
922	(*)See Numerical Index for applicable dash number		AN3436-2-(*)
927	257-1		654086
	264-51		
950	265-28		AN3106-28-16P
951	265-9		AN3106-20-29S
952	265-29		AN3106-1-85P
953	265-30		AN3106-22-19S
954	265-28		AN3106-28-16P
955	265-1		AN3106-22-24S
956	265-11		AN3106-32-19P
957	265-31		AN3106-28-16S
958	265-32		AN3106-22-14S
959	265-35		AN3106-2--28S
960	265		P306001-2
961	265		P304001-2
962	265		P306001-2
963	265		P302001-2
964	265-3		P31800T
965	265		P31500T
966	265		P31200T-2
967	265		P30800T-2
970	265		S30400T-2
971	265		S30800T-2
972	265-4		S40400T
973	265		S30600T-2
980	265-6		AN3100-28-16S
1000	180A-3		174-71033
1001	180A-2		F90/A10
1002	180A-1		DY77/AIC10
1003	180A		AN3108M24-28S
1004	180A		AN3106M22-14S
1005	180A		AN3106M18-1S
1006	180A-25		AN3108M16-10S
1007	180A-44		U92/U
1008	180A-12		AN3311-1
1009	180A-45		174-71055-3
A1	181B-2		01904/AR027
A2	181B-6		01904/AR027
J1	181B-15		MS3102E20-27S
J2	181B-17		MS3102E20-27S
J3	181B-19		MS3102E20-27S
J4	181B-24		MS3102E20-27S
J5	181B-21		MS3102E20-27S
J6	181B-23		MS3102E20-27S
K1	181B-29		AN3303-1
K2	181B-30		AN3303-1
P1	181B-10		MS3108E24-5S
P2	181B-11		MS3108E24-7S
TB1	181B-33		MS25123-1-20
TB2	181B-36		MS25123-1-20
TB3	181B-37		MS25123-1-20
TB4	181B-38		MS25123-1-20
TB5	181B-39		MS25123-1-20

SECTION V
GROUP ASSEMBLY PARTS LIST

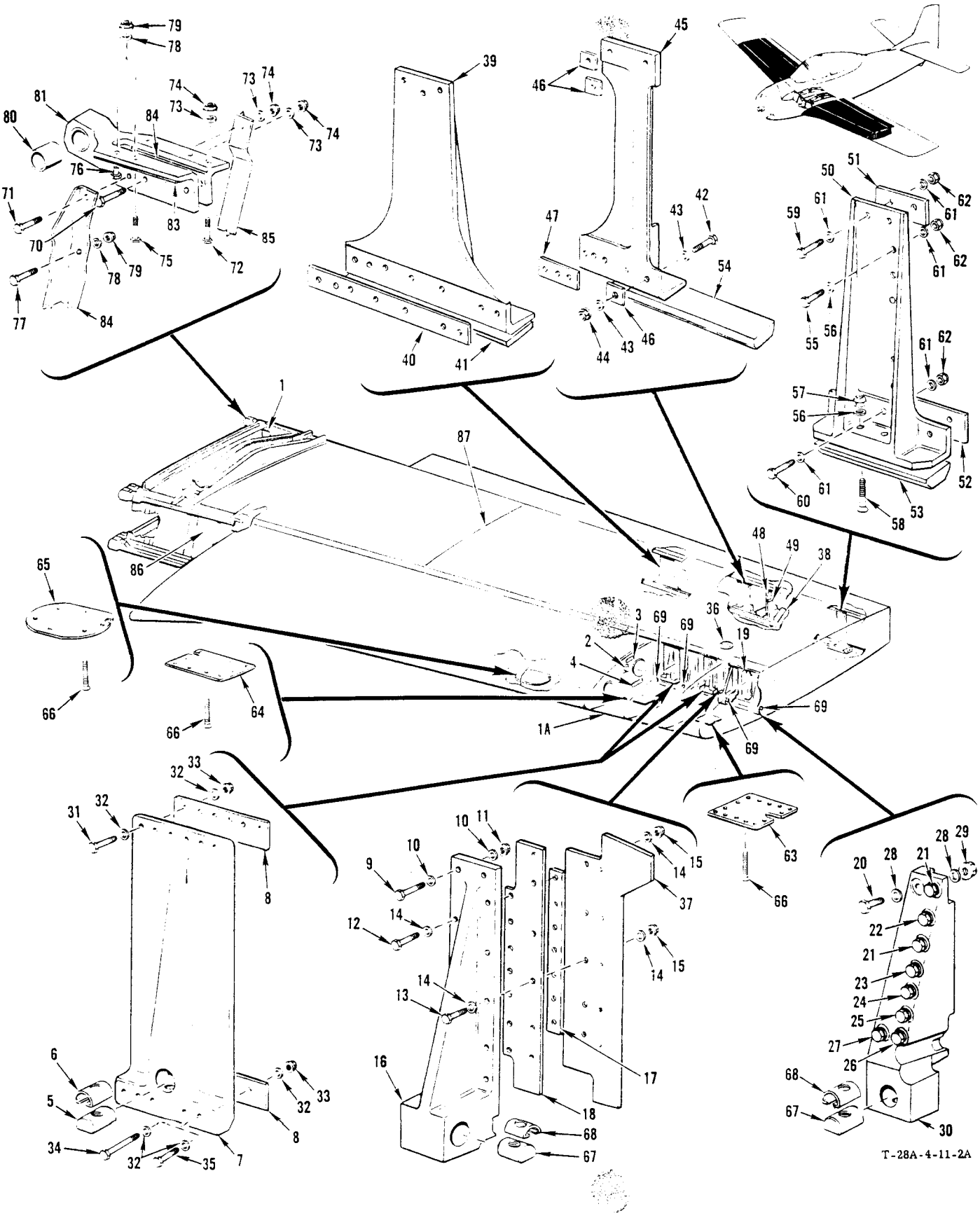
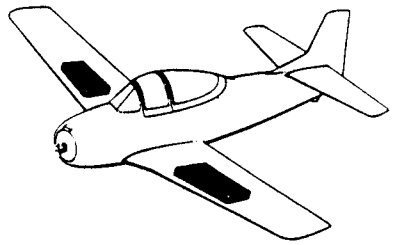


FIGURE 1 - COMPLETE WING ASSEMBLY (NCS)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
1	189-130610	WING ASSY, Complete (mod)	1	
	189-480013-1	. FUEL SYSTEM EQUIPMENT INSTL, Wing center section LH (mod) (see figure 3 for breakdown)	NP	
	189-480013-2	. FUEL SYSTEM EQUIPMENT INSTL, Wing center section RH (mod) (see figure 3 for breakdown)	NP	
	189-130100-1	. WING STRUCTURE, Assy of LH (mod)	1	
	189-130100-2	. WING STRUCTURE, Assy of RH (mod)	1	
	189-480113-1	. . CELL LINER INSTL, WCS LH (mod) (see figure 2 for breakdown)	1	
	189-480113-2	. . CELL LINER INSTL, WCS LH (mod) (see figure 2 for breakdown)	1	
	189-634001	. . ELECTRICAL EQUIP. INSTL, Wing provisions (see fig. 3A for breakdown)	NP	
-1	AN7510-2	. . PLATE	1	
	252-13001-21	. . WING CENTER SECTION, Assy of LH (mod)	1	
	252-13001-22	. . WING CENTER SECTION, Assy of RH (mod)	1	
-1A	252-13004-21	. . . LEADING EDGE ASSY, LH (mod)	1	
	252-13004-22	. . . LEADING EDGE ASSY, RH (mod)	1	
-2	MAS1196-9	. . . . PLUG	1	
-3	189-540126-9	. . . . DECAL, Missile	1	
-4	189-540126-11	. . . . DECAL, Bombs and rockets	1	
	252-13002-21	. . . SPAR ASSY, Forward LH (mod)	1	
	252-13002-22	. . . SPAR ASSY, Forward RH (mod)	1	
	189-130200	. . . . FITTING ASSY, Fwd stores wing sta 127 (mod) supersedes 252-13010)	2	
-5	2452-080	. . . . . NUT, (Elastic)	1	
-6	2452-080RET	. . . . . RETAINER, (Elastic)	1	
-7	189-130200-3	. . . . . FITTING, (altered from 189-130200)	1	
-8	252-13014-3	. . . . SHIM, Wing fwd spar	4	
-9	AN4-11A	. . . . BOLT	2	
-10	2W18--10M	. . . . WASHER, (North American)	2	
-11	MAS1291--	. . . . NUT	2	
-12	AN3-11A	. . . . BOLT	1	
-13	AN3-7A	. . . . BOLT	6	
-14	2W18-10M	. . . . WASHER, (North American)	24	
-15	MAS1291-3	. . . . NUT	12	
-16	252-13011-11	. . . . FITTING, Wing fwd stores sta 148.625 inboard LH (mod)	1	
	252-13011-12	. . . . FITTING, Wing fwd stores sta 148.625 inboard RH (mod)	1	
-17	252-13014-15	. . . . SHIM, Wing fwd spar (mod)	1	
-18	252-13014-13	. . . . SHIM, Wing fwd spar (mod)	1	
-19	252-13013	. . . . STIFFENER, Wing fwd spar sta 148.6 (mod)	1	
-20	AN4-13A	. . . . BOLT	1	
-21	AN4-16A	. . . . BOLT	2	
-22	AN4-14A	. . . . BOLT	1	
-23	AN4-20A	. . . . BOLT	1	
-24	AN4-22A	. . . . BOLT	1	
-25	AN4-24A	. . . . BOLT	1	
-26	AN4-26A	. . . . BOLT	1	
-27	AN4-33A	. . . . BOLT	1	
-28	2W18-416M	. . . . WASHER, (North American)	18	
-29	MAS1291-4	. . . . NUT	9	
-30	252-13012-11	. . . . FITTING, Wing fwd stores sta 148.625 outboard LH (mod)	1	
	252-13012-12	. . . . FITTING, Wing fwd stores sta 148.625 outboard RH (mod)	1	
-31	AN3-7A	. . . . BOLT, (wing sta 131.75 upper attach)	6	
-32	2W18-10M	. . . . WASHER, (North American)	32	
-33	MAS1291-3	. . . . NUT	16	
-34	AN3-17A	. . . . BOLT, (wing sta 131.75 lwr attach)	5	
-35	AN3-7A	. . . . BOLT, (wing sta 124.75 lwr attach)	5	
-36	252-13014-21	. . . . COVER, Wing fwd spar (wing sta 139.56)	1	
-37	252-13014-9	. . . . SPACER, Wing fwd spar (mod)	1	
	252-13003-11	. . . SPAR ASSY, WCS rear LH (mod)	1	
	252-13003-12	. . . SPAR ASSY, WCS rear RH (mod)	1	
-38	252-13026-1	. . . . FAIRING ASSY, Flap outboard hinge bracket LH (altered from 159-10009-1)	1	
	252-13026-2	. . . . FAIRING ASSY, Flap outboard hinge bracket RH (altered from 159-10009-2)	1	
	ATTACHING PARTS			
	SP1561-832-6	. . . . SCREW, (snakeproof)	4	
	AN365-832	. . . . NUT	4	
	---*---			
-39	252-13020	. . . . FITTING, Wing aft stores sta 105.5 (mod)	1	
-40	252-13003-13	. . . . SHIM, WCS rear spar	1	
-41	252-13025-3	. . . . SPACER, Wing aft spar stores	1	
-42	AN3-14A	. . . . BOLT	5	
-43	2W18-10M	. . . . WASHER, (North American)	10	
-44	MAS1291-3	. . . . NUT	5	
-45	252-13021-1	. . . . FITTING, Wing aft stores sta 127.469 inboard LH (mod)	1	
	252-13021-2	. . . . FITTING, Wing aft stores sta 127.469 inboard RH (mod)	1	

(Nomenclature continued on next page)

FIGURE & INDEX NUMBER	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
1-46	252-13003-7								SHIM, WCS rear spar.	3	
-47	252-13003-9								SHIM, WCS rear spar.	1	
-48	252-13024-1								FITTING, Wing aft stores sta 127.469 outboard. upper LH (mod)	1	
	252-13024-2								FITTING, Wing aft stores sta 127.469 outboard. upper RH (mod)	1	
-49	252-13022-1								FITTING, Wing aft stores sta 127.469 outboard. lower LH (mod)	1	
	252-13022-2								FITTING, Wing aft stores sta 127.469 outboard. lower RH (mod)	1	
-50	252-13023-1								FITTING, Wing aft stores sta 148.5 & 148.5 LH (mod)	1	
	252-13023-2								FITTING, Wing aft stores sta 148.5 & 148.5 RH (mod)	1	
-51	252-13003-19								SHIM, Wing center section rear spar LH only	1	
-52	252-13003-21								SHIM, Wing center section rear spar LH only	1	
-53	252-13025-7								SPACER, Wing aft spar stores	1	
-54	252-13025-9								SPACER, Wing aft spar stores	1	
-55	AN3-6A								BOLT	1	
-56	2W18-10M								WASHER, (North American)	4	
-57	MAS679A3								NUT	1	
-58	7018-10-20								SCREW, (North American)	1	
-59	AN3-7A								BOLT	1	
-60	AN3-10A								BOLT	1	
-61	2W18-10M								WASHER, (North American)	3	
-62	MAS679A4								NUT	1	
-63	252-13014-31								DOOR, WCS (mod)	1	
-64	252-13014-33								DOOR, WCS LH (mod)	1	
	252-13014-34								DOOR, WCS RH (mod)	1	
-65	252-13014-35								DOOR, WCS LH (mod)	1	
	252-13014-36								DOOR, WCS RH (mod)	1	
-66	AN509-10R7								SCREW	30	
-67	MAS577-8								NUT	2	
-68	MAS578-8B								RETAINER	2	
-69	189-13334-3								PLUG, Wing center section gun and comp assy	1	
	189-130180								FITTING, WCS LH rear spar, assy of (mod)	1	
-70	MAS1104-11								BOLT	1	
-71	MAS1104-13								BOLT	1	
-72	MAS1104-7								BOLT	3	
-73	2W18-10M								WASHER, (North American)	6	
-74	MAS1291C4								NUT	1	
-75	MAS1103-7								BOLT	1	
-76	MAS1103-8								BOLT	1	
-77	AN3-7A								BOLT	1	
-78	2W18-10								WASHER, (North American)	1	
-79	MAS1291C3								NUT	1	
	189-130181								LUG, Rear spar upper LH inboard, assy of (mod)	1	
-80	4B19S12-030								BUSHING, (North American)	1	
-81	189-130181-3								FITTING, Rear spar upper LH inboard	1	
-82	189-130180-7								SHIM, WCS LH rear spar fitting	1	
-83	189-130180-11								SHIM, WCS LH rear spar fitting	1	
-84	189-130180-3								ANGLE, WCS LH rear spar fitting	1	
-85	189-130180-5								ANGLE, WCS LH rear spar fitting	1	
-86	189-130220-1								DOUBLER, Fwd wing attach fitting Wing sta 28.750, assy of LH (mod)	1	
	189-130220-2								DOUBLER, Fwd wing attach fitting Wing sta 28.750, assy of RH (mod)	1	
-87	225-13076-11								RIB ASSY, WCS sta 75 intermediate LH (mod)	1	
	225-13076-12								RIB ASSY, WCS sta 75 intermediate RH (mod)	1	



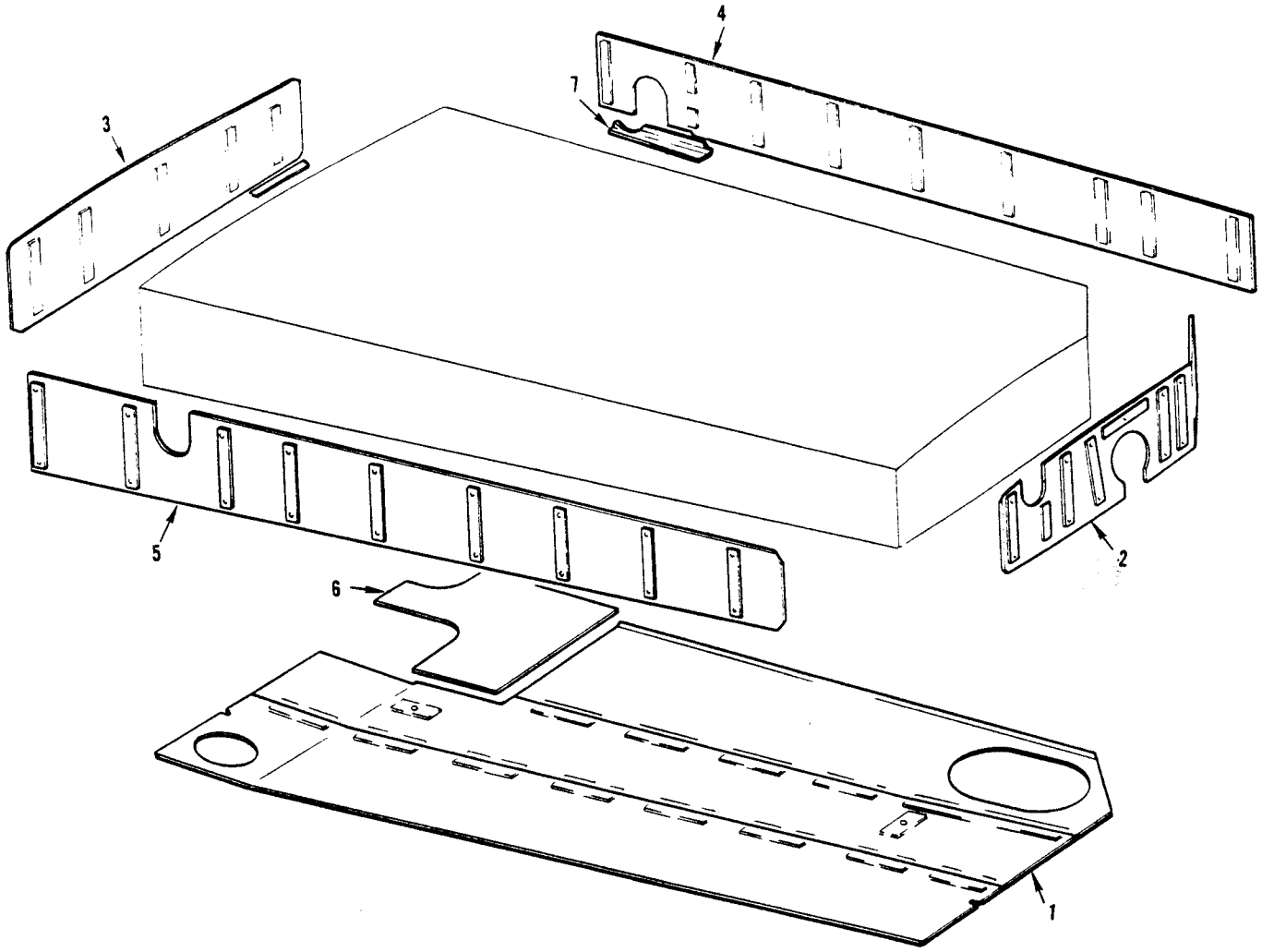


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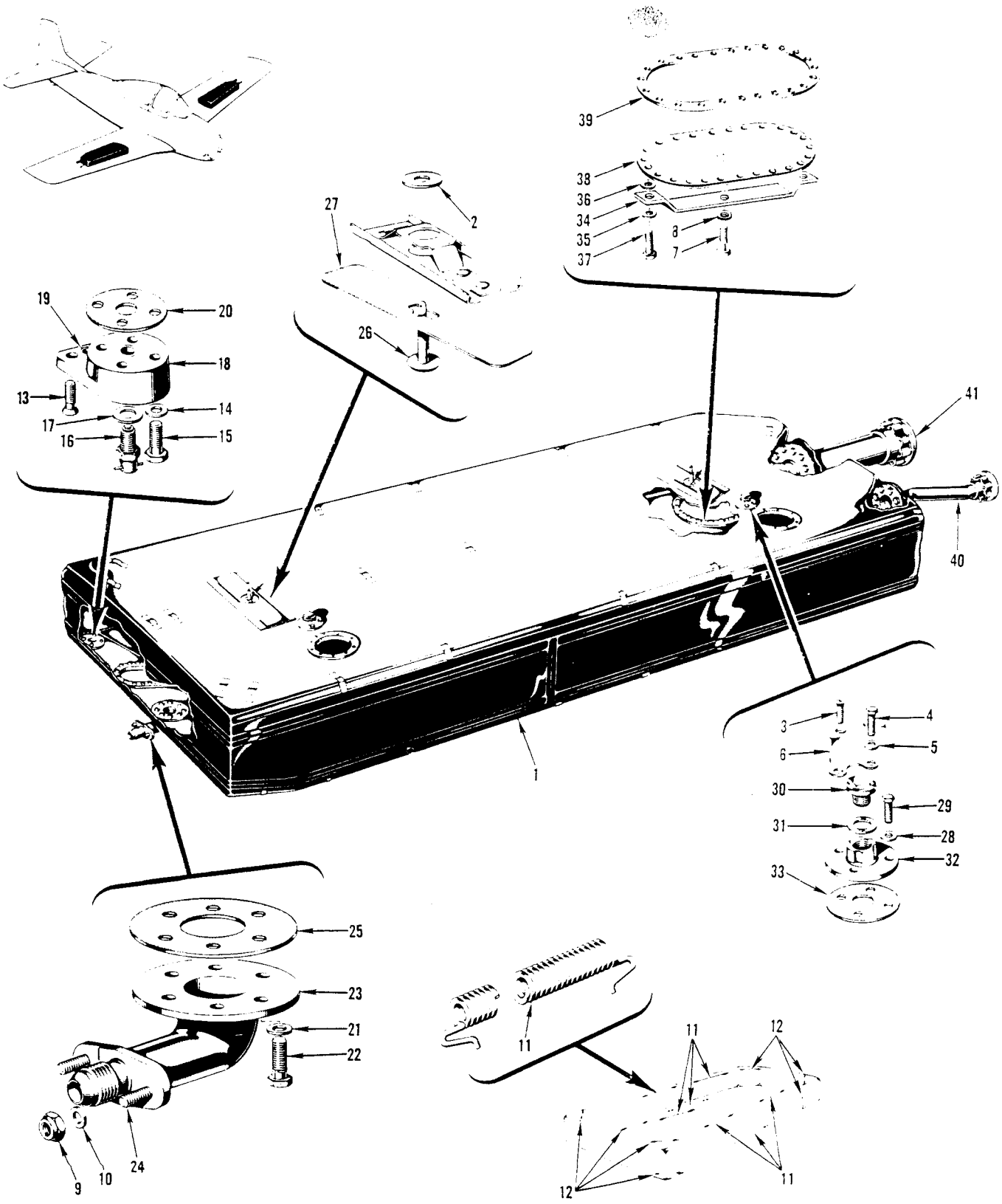
FIGURE 2 - WING CENTER SECTION FUEL CELL LINER INSTALLATION (MOD)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
2	189-480113-1	CELL LINER INSTALLATION, WCS LH (mod) (see fig. 1 for next assy)	NP	
	189-480113-2	CELL LINER INSTALLATION, WCS RH (mod) (see fig. 1 for next assy)	NP	
-1	219-48200-101	. LINER ASSY, Wing ctr sect. fuel tank lower LH	1	
	219-48200-102	. LINER ASSY, Wing ctr sect. fuel tank lower RH	1	
-2	219-48201-1	. LINER, WCS fuel tank wing sta 143.5 outboard end, assy of LH.	1	
	219-48201-2	. LINER, WCS fuel tank wing sta 143.5 outboard end, assy of RH.	1	
-3	219-48202-1	. LINER, WCS fuel tank wing sta 76.28125 inboard end, assy of LH.	1	
	219-48202-2	. LINER, WCS fuel tank wing sta 76.28125 inboard end, assy of RH	1	
-4	219-48210-101	. LINER, WCS fuel tank rear spar, assy of LH	1	
	219-48210-102	. LINER, WCS fuel tank rear spar, assy of RH	1	
-5	219-48211-1	. LINER, WCS fuel tank front spar, assy of LH	1	
	219-48211-2	. LINER, WCS fuel tank front spar, assy of RH	1	
-6	219-48212-1	. LINER, WCS fuel tank inboard access door LH	1	
	219-48212-2	. LINER, WCS fuel tank inboard access door RH	1	
-7	219-48213-3	. LINER, WCS access door fuel tank lower	1	
	219-48213-4	. LINER, WCS access door fuel tank lower	1	
	219-48213-7	. LINER, WCS access door fuel tank lower	1	
	219-48213-8	. LINER, WCS access door fuel tank lower	1	



T-28A-4-48-5A

FIGURE 1 - WING CENTER SECTION FUEL SYSTEM EQUIPMENT INSTALLATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
3	189-480013-1		FUEL SYSTEM EQUIPMENT INSTL, WCS LH (mod) (see fig.1 for next assy)	NP	
	189-480013-2		FUEL SYSTEM EQUIPMENT INSTL, WCS LH (mod) (see fig.1 for next assy)	NP	
-1	189-480016-1		. CELL ASSY, Complete fuel LH	1	
	189-480016-2		. CELL ASSY, Complete fuel RH	1	
	ATTACHING PARTS				
-2	2W1AL20-32-64		. WASHER, (North American)	4	
-3	AN507-1032R8		. SCREW	2	
-4	AN74-5		. BOLT	4	
-5	AN1960D416L		. WASHER	4	
-6	159-48054-1		. CLIP ASSY, WCS fuel quantity gage float arm access fitting support LH	2	
	159-48054-2		. CLIP ASSY, WCS fuel quantity gage float arm access fitting support RH	2	
-7	AN4-5A		. BOLT	1	
-8	2W1AL16-32-64		. WASHER, (North American)	1	
-9	AN365-1032		. NUT	2	
-10	AN960D10		. WASHER	2	
-11	174-48025		. SPRING, Fuel cell hanger (supersedes Pacific Coast Engineering Co. No. PS5223B12.6 which may be used interchangeably until stock is exhausted)	7	
-12	174-48023		. SPRING, Fuel cell hanger (supersedes Pacific Coast Engineering Co. No. PS5223B7-0 which may be used interchangeably until stock is exhausted)	7	
-13	AN507-103R9		. SCREW	2	
	---*---				
-14	2W18-416		. . WASHER, (North American)	4	
-15	MS20073-04-04		. . BOLT	4	
-16	83501-1	*1	. . VALVE ASSY, Fuel drain adapter (Koehler Aircraft Products) (Curtis Automotive Devices No. CCA4300 may be sub)	1	
-17	MS29513-11	*1	. . PACKING	1	
-18	159-48093-3	*1	. . FITTING ASSY, Fuel cell sump drain LH	1	
	159-48093-4	*1	. . FITTING ASSY, Fuel cell sump drain RH	1	
-19	RL24SB7		. . . RING, (Rosan)	1	
	RD205SH5.5L		. . . INSERT, (Rosan)	1	
-20	159-48050		. . GASKET, WCS fuel system tank drain and float access	1	
-21	2W18-416		. . WASHER, (North American)	6	
-22	MS20073-04-05		. . BOLT	6	
-23	174-48188-1		. . FITTING ASSY, WCS fuel gravity flow outlet elbow LH	1	
	174-48188-2		. . FITTING ASSY, WCS fuel gravity flow outlet elbow RH	1	
-24	AN3-5A		. . . BOLT	2	
	6800-02		. . . RETAINER, (Nutt-Shel)	2	
-25	159-48051		. . GASKET, WCS fuel tank vent and fuel outlet fitting	1	
-26	159-48068		. . STUD, WCS fuel cell float clearance stiffener attaching	4	
-27	159-48067-5		. . STIFFENER, WCS fuel cell float clearance (top inbd stud)	1	
	159-48067-3		. . STIFFENER, WCS fuel cell float clearance	3	
-28	2W18-416		. . WASHER (North American)	4	
-29	MS20073-04-04		. . BOLT	4	
-30	159-48043		. . PLUG, WCS fuel quantity transmitter float arm access	2	
-31	AN900-12		. . GASKET	2	
-32	174-48028		. . ADAPTER, WCS fuel quantity transmitter float arm access.	2	
-33	159-48050		. . GASKET, WCS fuel system tank drain and float access.	2	
	174-48002-101	*2	. . CELL ASSY, WCS fuel LH (United States Rubber Co. No. FCD20683)	1	
	174-48002-102	*2	. . CELL ASSY, WCS fuel RH (United States Rubber Co. No. FCD20684)	1	
-34	219-48208		. SUPPORT, Fuel cell access door, assy of	1	
-35	2W18-416		. WASHER, (North American).	24	
-36	2W18-416M		. WASHER, (North American).	24	
-37	MS20073-04-04		. BOLT.	24	
-38	FCC42524		. COVER ASSY, WCS tank access (U.S. Rubber Co).	1	
-39	159-48098		. GASKET, WCS fuel tank access door	1	
-40	174-48179		TUBE ASSY, WCS fuel vent interconnector (see fig. 32, Section II)	Ref	
-41	174-48186		INTERCONNECTOR ASSY, WCS fuel filling (see fig. 32, Section II).	Ref	

*1 Koehler Aircraft No. 83501-1 with 159-48093-3 and -4 and 934-6 as a set, supersedes Curtis Automotive No. CCA1500 or CCA4900 with 159-48093-1 and -2 as a set, the latter or superseded parts may be used interchangeably as a set until stock is exhausted.

*2 To order WCS fuel cell specify Part No. 189-829002.

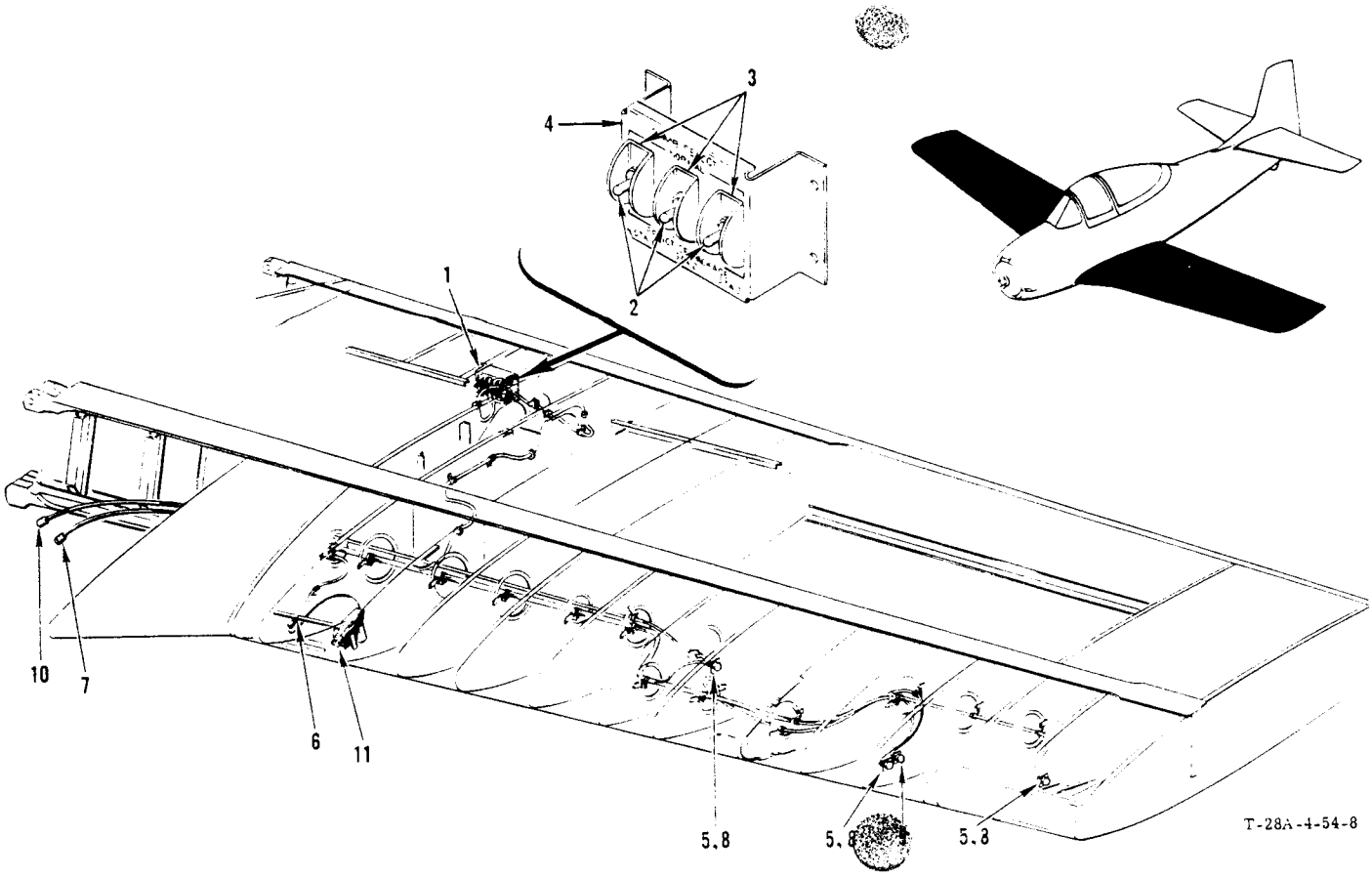


FIGURE 3A - WING PROVISIONS ELECTRICAL EQUIPMENT INSTALLATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
3A	189-634001		ELECTRICAL EQUIPMENT INSTL. Wing provisions (see Fig. 1 for next assy)	NP	
-1	189-540150-11	.	PANEL ASSY. Electrical bomb selector switch (LH wing)	1	
	189-540150-21	.	PANEL ASSY, Electrical bomb selector switch (LH wing)	1	
	ATTACHING PARTS				
	AN520-10R10	.	SCREW	8	
	2W18-10M	.	WASHER, (North American)	8	
	NAS679A3	.	NUT	8	
	---*---				
-2	MS35058-23	. .	SWITCH	1	
-3	MS24417-1	. .	GUARD	1	
-4	189-540160-3	. .	PANEL, Elec bomb selector switch (on 189-5[illegible]-11)	1	
	189-540160-5	. .	PANEL, Elec bomb selector switch (on 189-5[illegible]-21)	1	
	189-540113-21	.	WIRING DIAGRAM, Electrical armament control LH	1	
	189-540113-31	.	WIRING DIAGRAM, Electrical armament control RH	1	
-5	MS3102-20-27S	. .	CONNECTOR (on LH and RH)	2	
-6	MS25183-16S1S	. .	CONNECTOR, (radio noise filter) (LH only)	1	
-7	MS25183-24-28P	. .	CONNECTOR (on LH only)	1	
	MS3102-22-1-P	. .	CONNECTOR (on RH only)	1	
-8	2209-7	.	DUST CAP, (Cannon) (on LH and RH)	6	
	189-540114-21	.	WIRING DIAGRAM, Electrical missile control LH	1	
	189-540114-31	.	WIRING DIAGRAM, Electrical missile control RH	1	
-9	MS3103R18-1S	. .	CONNECTOR (LH and RH)	2	
-10	MS25183-20-27S	. .	CONNECTOR (LH only)	1	
	MS3103R18-1S	. .	CONNECTOR (RH only)	1	
-11	189-660001	.	GUN CAMERA INSTL (mod) (see Fig. -4 for breakdown)	NP	

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WING ELECTRICAL

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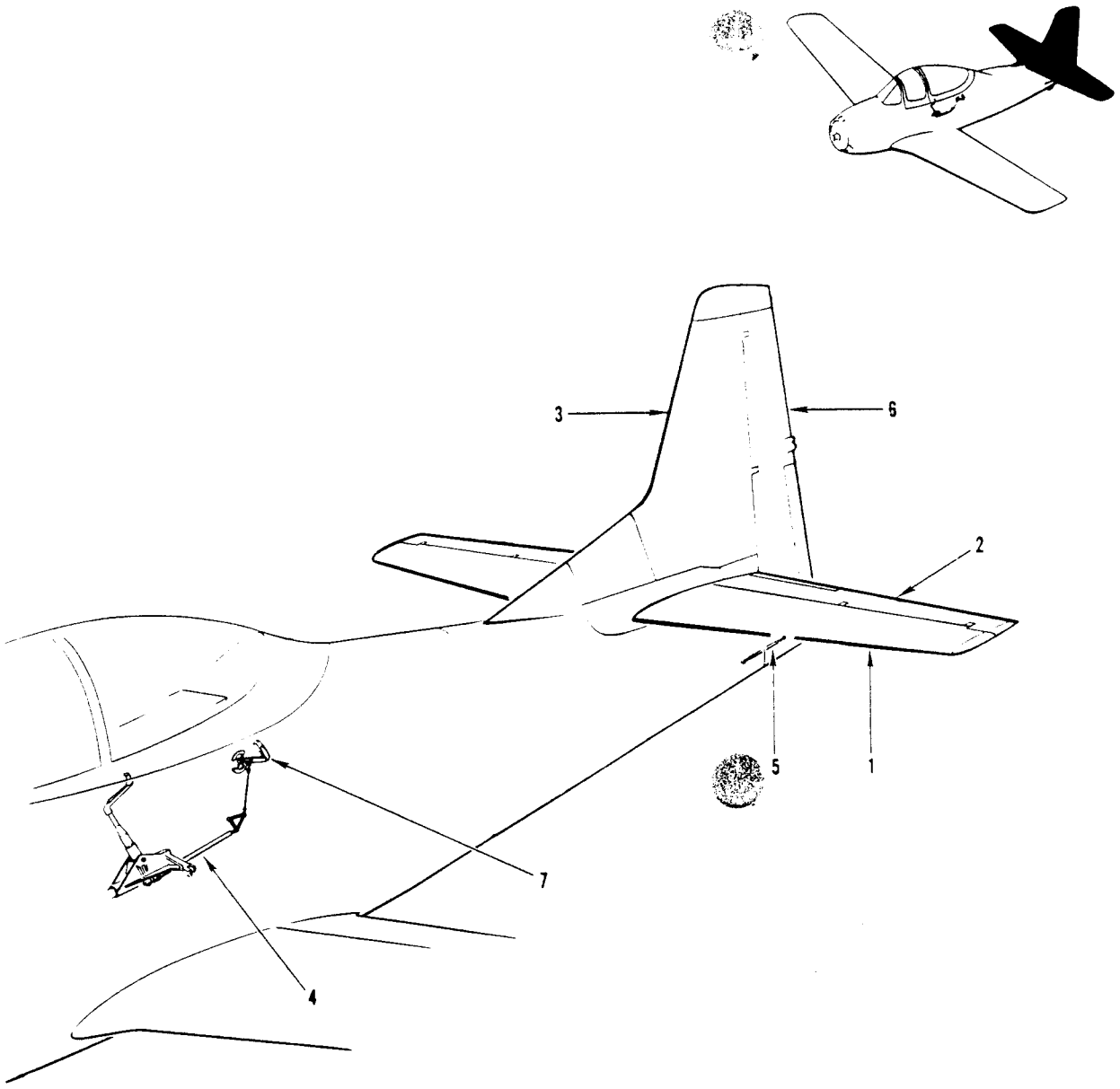

T-28D-4-20-1

FIGURE 1 - EMPENNAGE AND SURFACE CONTROL INSTALLATIONS (MODIFICATION)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
-		EMPENNAGE AND SURFACE CONTROL INSTALLATIONS (mod)		
	189-200010	. EMPENNAGE INST, Complete	MF	
-1	159-21001-11	. . STABILIZER, Horizontal assy of (altered from 159-21001 per mod kwg 159-[illegible])	1	
-2	159-22001-501	. . ELEVATOR, Complete, assy of (altered from 159-22001 per mod kwg 159-[illegible])	1	
-3	159-23001-501	. . STABILIZER, Vertical, assy of (altered from 159-23001 per mod kwg 159-[illegible])	1	
	189-520010	. SURFACE CONTROL INSTALLATION	MF	
-4	159-52204-21	. . TUBE ASSY, Elev control (stick to bellcrank)	1	
-5	159-52498-11	. . TUBE ASSY, Rudder cont to surface connect	1	
-6	159-24001	RUDDER ASSY, Complete (see Fig. -2, Section II)	Ref	
-7	171-52229	BOBWEIGHT ASSY, Elev control (see Fig. 15c, Section II)	Ref	

T. O. 1T-28A-4
FUSELAGE

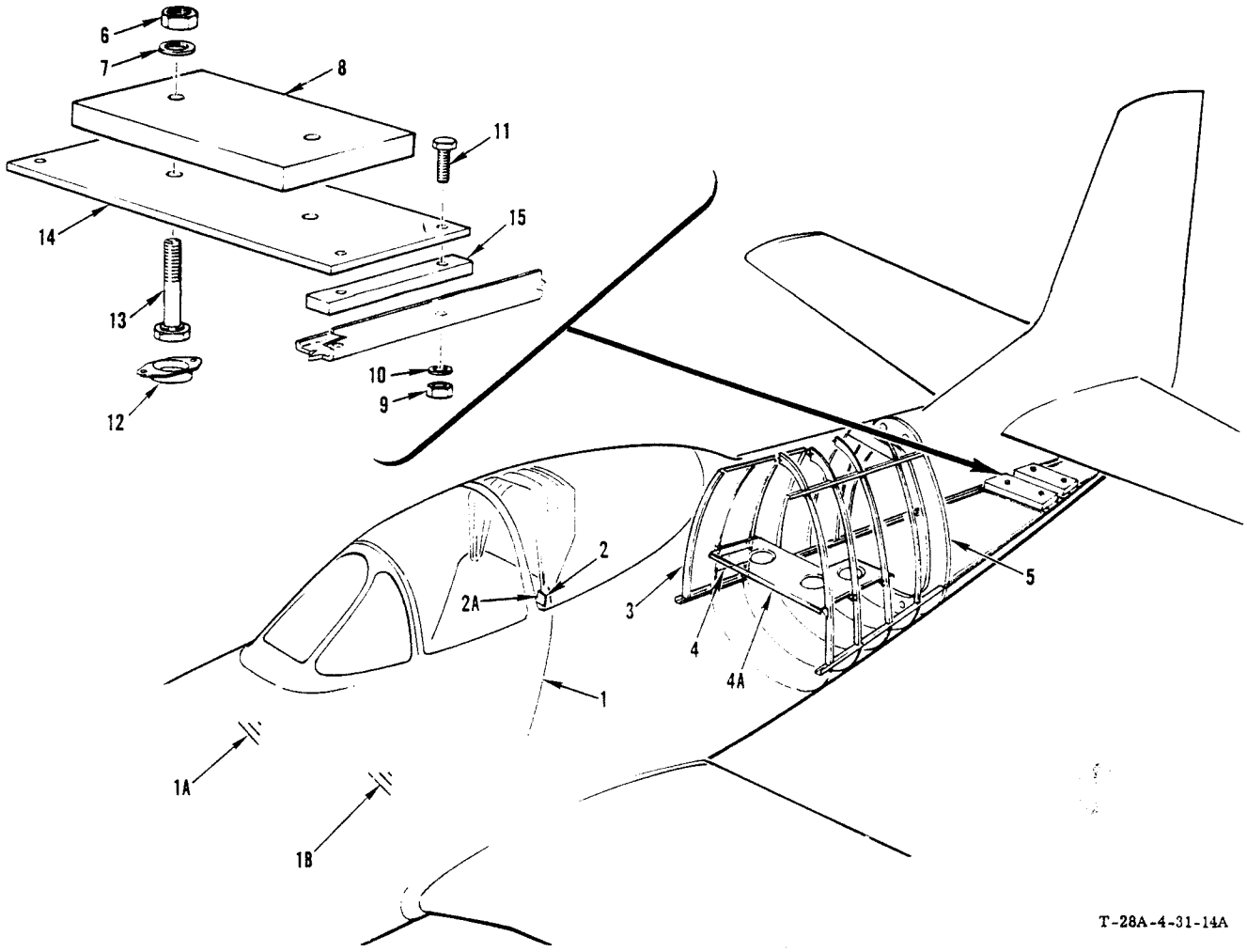

FIGURE 5 - FUSELAGE INSTALLATION (MODIFICATION)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
5		FUSELAGE INSTALLATION, (MODIFICATION)		
	189-310010	. FUSELAGE INSTALLATION COMPLETE	NP	
-1	189-330080	. . SEAT INSTL, Fwd and aft cockpit (mod) (see fig. 11B for breakdown)	NP	
-1A	189-636001	. . ELECTRICAL EQUIP. INSTL. Fwd fus stores provisions (see fig. 11C for breakdown)	NP	
-1B	189-316010	. . FUSELAGE FORWARD SECTION, Fus sta 49.500 to 238.875 complete, assy of (see figure 5 for breakdown)	1	
	189-311153	. . FRAME, Fus sta 103.726 LH canted, assy of	1	
-2	189-311153-3	. . . SPACER, Fus sta 103.726 LH canted frame	1	
-2A	5930	. . . NAMEPLATE, (North American)	1	
-3	189-710030	. . PANEL ASSY, Fus sta 177.75 to 207.187, RH side	1	
	189-710026	. . SHELF INSTL, ARC/3 radio	NP	
-4	189-710027	. . . BRACKET, Radio RE120/ARA25 relay fus sta 197.375	1	
-4A	189-710024	. . . SHELF, ARC3 radio, assy of (mod)	1	
-5	189-313010	. . PANEL, Fus sta 238.875 to sta 338.375 LH complete, assy of (see figure 6 for breakdown)	1	
	189-310130	. BALLAST ASSY, Fus sta 307.62	1	
-6	MS20365-820	. . NUT	4	
-7	AN17-816	. . WASHER, (North American)	4	
-8	189-310132	. . BALLAST, Weight, fus sta	1	
-9	MS20365-428	. . NUT	8	
-10	AN18-416	. . WASHER, (North American)	8	
-11	AN4-13A	. . BOLT	8	
	189-310133-11	. . PLATFORM, Ballast fus sta 307.62, assy of (fwd)	1	
	189-310133-21	. . PLATFORM, Ballast fus sta 307.62, assy of (aft)	1	
-12	6800-080	. . . RETAINER, (SPS Western)	2	
-13	189-310134	. . . BOLT, Ballast fus sta 307.62	2	
-14	189-310133-3	. . . PLATE, Ballast fus sta 307.62 (fwd)	1	
	189-310133-5	. . . PLATE, Ballast fus sta 307.62 (aft)	1	
-15	189-310131-3	. . SPACER, Ballast fus sta 307.62	4	

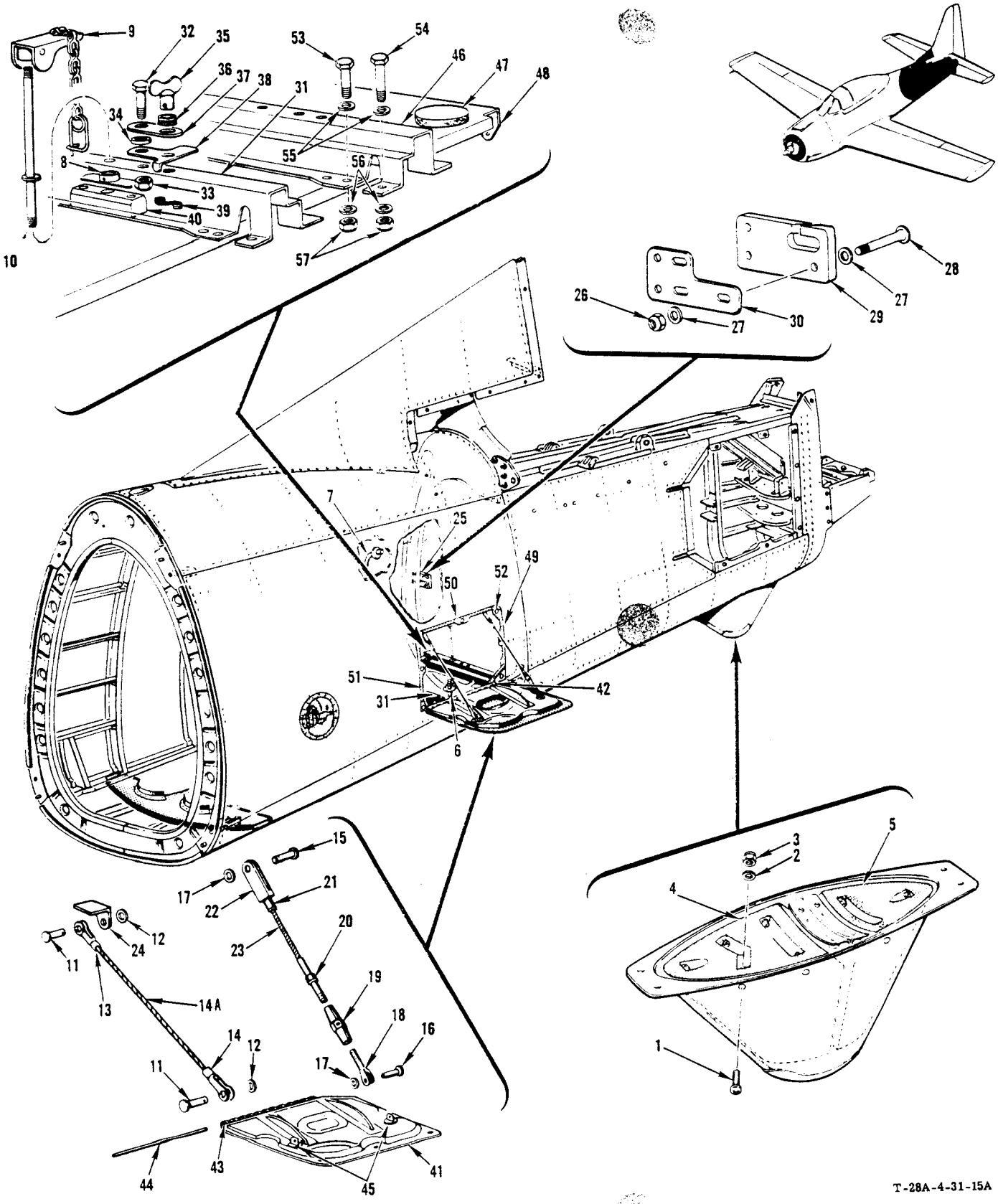

FIGURE 6 - FUSELAGE STATION 238.375 TO 338.375 COMPLETE LH PANEL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
5	189-313010		PANEL, Fus sta 238.375 to 338.375 LH complete, assy of (mod) (see figure 5 for next assy)	Ref	
-1	MAS221-16	.	SCREW	8	
-2	AN960-10L	.	WASHER	8	
-3	MAS679A3	.	NUT	8	
-4	159-311176	.	WEIGHT, Fus sta 331 forward balance	1	
-5	159-311177	.	WEIGHT, Fus sta 331 aft balance	1	
	189-313040	.	PANEL, Fus sta 238.875 to sta 239.500 LH side, assy of	1	
-6	159-54206	. .	TUBE ASSY, Elec battery vent outlet	1	
-7	200-54062	. .	TUBE ASSY, Elec battery vent inlet	1	
-8	174-54051	. .	NUT, Elec battery hold down	2	
	200-54207	. .	ROD ASSY, Elec battery hold down	2	
-9	200-54224	. . .	CLAMP ASSY	1	
-10	200-54207-11	. . .	ROD SUB-ASSY, Elec battery hold down	1	
-11	AN393-9	. .	PIN	2	
-12	AN960D10L	. .	WASHER	2	
	200-54205	. .	CABLE ASSY, Elec battery door support forward	1	
-13	AN66-02	. . .	BALL END	2	
-14	RA2500-2	. . .	FORK TERMINAL, (American Chain & Cable)	2	
-14A	200-54205-3	. . .	CABLE, Elec battery door support forward	1	
-15	AN393-9	. .	PIN	1	
-16	AN393-11	. .	PIN	1	
-17	AN960D10L	. .	WASHER	2	
	200-54206	. .	CABLE ASSY, Elec battery door support aft	1	
-18	AN161-8LS	. . .	FORK	1	
-19	AN155-8S	. . .	BARREL	1	
-20	AN669S2RH	. . .	TERMINAL	1	
-21	AN66-02	. . .	BALL END	1	
-22	RA2500-2	. . .	FORK TERMINAL, (American Chain & Cable	1	
-23	200-54206-3	. . .	CABLE, Elec battery door support aft	1	
-24	200-31364	. .	FITTING, Fus sta 269 LH battery door cable attaching	1	
-25	200-52445	. .	FAIRLEAD ASSY, Rudder control fus sta 269 LH cable	1	
-26	AN364-632	. . .	NUT	1	
-27	AN960D6	. . .	WASHER	1	
-28	AN515-6R10	. . .	SCREW	1	
-29	200-52446	. . .	FAIRLEAD, Rudder control fus sta 269 LH cable	1	
-30	200-52445-3	. . .	BRACKET	1	
-31	200-54048	. .	SUPPORT ASSY, Elec battery fus sta 273	1	
-32	AN3-4A	. . .	BOLT	2	
-33	MAS365-1032	. . .	NUT	2	
-34	MAS427-6	. . .	SPACER	1	
	200-54203	. . .	SPRING ASSY, Elec battery retractable stop	1	
-35	AW5-35	. . . .	STUD, (Dzus Fastener)	1	
-36	GA5-312	. . . .	GROMMET, (Dzus Fastener)	1	
-37	200-54203	. . . .	SPRING, Elec battery retractable stop	1	
-38	200-54202	. . .	STOP, Elec battery retractable	1	
-39	S5-200	. . .	SPRING, (Dzus Fastener)	1	
--0	171-54081	. . .	BLOCK, Elec battery support	1	
--1	200-31010	. .	DOOR ASSY, Fus sta 278.375 battery access	1	
--2	200-31010-17	. . .	HINGE, Fus sta 278.375 battery access door half	1	
--3	200-31010-19	. . .	HINGE, Fus sta 278.375 battery access door half	1	
--4	200-31010-21	. . .	PIN, Fus sta 278.375 battery access door hinge	1	
--5	AN42-7A	. . .	BOLT	2	
	AN365-1032	. . .	NUT	2	
--6	200-54049-51	. .	SUPPORT ASSY, Elec battery fus sta 282 25/32	1	
	171-54081	. . .	BLOCK, Elec battery support	1	
	200-54058	. . .	SUPPORT ASSY, Fus sta 281.375 to 289.5 elec battery sump jar	1	
--7	117-54083	. . . .	PAD, Battery sump bottle supporting	1	
--8	200-54058-3	. . . .	SHELF, fus sta 281.375 to 289.5 elec battery sump jar	1	
--9	189-313040-31	.	SEAL, Fus sta 269.250 LH side	1	
-50	189-313040-13	. .	SEAL, Fus sta 269.250 to 285 LH side	1	
-51	189-313040-5	. .	SEAL, Fus sta 285.75 LH side	1	
-52	S6-275	. .	SPRING, (Dzus Fastener)	6	
-53	AN4-5A	. .	BOLT	16	
-54	AN4-6A	. .	BOLT	8	
-55	2W18-416	. .	WASHER, (North American)	24	
-56	2W18-416M	. .	WASHER, (North American)	24	
-57	MAS679A4	. .	NUT	24	

FUSELAGE (Cont)

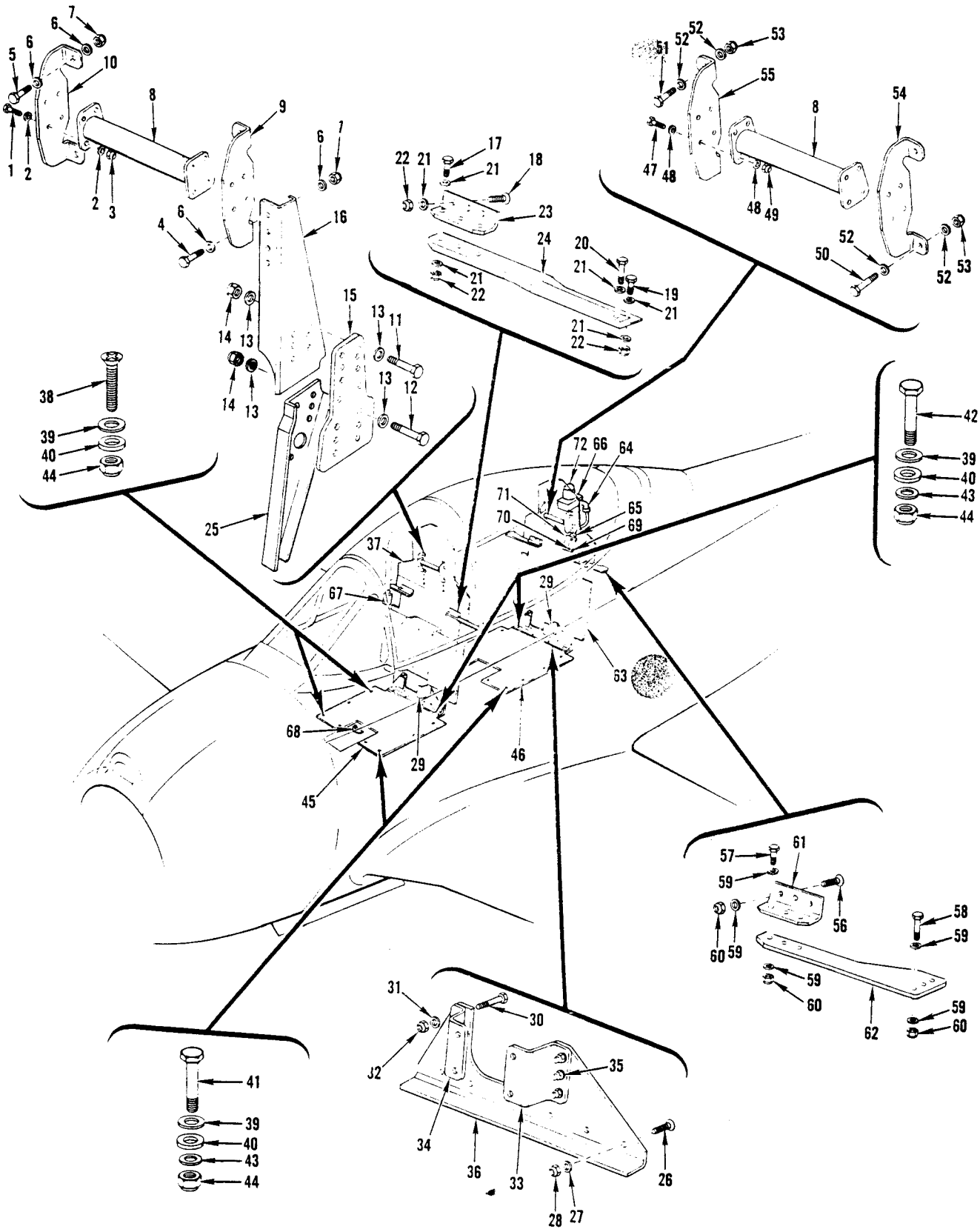

FIGURE 7 - COMPLETE ARMOR PLATE INSTALLATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
7	189-735010	ARMOR PLATE INSTL, COMPLETE	NP	
	189-735025	. OXYGEN INSTL, Fwd cockpit, personal services (see figure 13 for breakdown)	NP	

FUSELAGE (CONT)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
7	189-735026	OXYGEN INSTL, Aft cockpit, personal services (see figure 13 for breakdown)	NP	
	189-735020	ARMOR PLATE, Fuel sump, assy of (mod) (see figure 8 for breakdown)	1	
	189-735050	ARMOR PLATE, Pilots fwd and aft, assy of	1	
-1	AN3-3A	BOLT	8	
-2	2W18-10M	WASHER, (North American)	16	
-3	NAS679A3	NUT	8	
-4	AN4-6A	BOLT	2	
-5	AN4-5A	BOLT	3	
-6	2W18-416	WASHER, (North American)	20	
-7	NAS679A4	NUT	10	
-8	174-53016	TUBE ASSY, Shoulder harness support forward (fwd & aft)	2	
-9	219-73531-1	SUPPORT, Pilots shoulder harness to armor plate LH	1	
-10	219-73531-2	SUPPORT, Pilots shoulder harness to armor plate RH	1	
-11	AN5-10A	BOLT	12	
-12	AN5-11A	BOLT	4	
-13	2W18-516M	WASHER, (North American)	24	
-14	NAS679A5	NUT	16	
-15	219-73526	SPLICE, Bulkhead to armor plate support	2	
-16	219-73530-1	SUPPORT, Fwd pilots armor plate upper fus sta 107.125 LH.	1	
	219-73530-2	SUPPORT, Fwd pilots armor plate upper fus sta 107.125 RH.	1	
-17	AN4-7A	BOLT	3	
-18	AN509-416R12	SCREW	3	
-19	AN4-5A	BOLT	1	
-20	AN4-6A	BOLT	1	
-21	2W18-416	WASHER, (North American)	13	
-22	NAS679A4	NUT	6	
-23	219-73529	ANGLE, Bulkhead armor plate to traverse bar	2	
-24	219-73517-1	BAR, Traverse fwd bulkhead armor plate LH	1	
	219-73517-2	BAR, Traverse fwd bulkhead armor plate RH	1	
-25	200-31126-3	SUPPORT ASSY, Fus sta 103.726 canted bulkhead LH	1	
	200-31126-4	SUPPORT ASSY, Fus sta 103.726 canted bulkhead RH	1	
-26	AN509-416R12	SCREW	2	
-27	2W18-416	WASHER, (North American)	2	
-28	NAS679A4	NUT	2	
-29	219-73532-11	ANGLE ASSY, Lwr armor plate to bulkhead armor plate attaching	2	
-30	AN509-416R14	SCREW	2	
-31	2W18-416	WASHER, (North American)	2	
-32	NAS679A4	NUT	2	
-33	219-73532-7	CLIP	1	
-34	219-73532-9	CLIP	1	
-35	HL21-8-7	PIN, (Hi-Shear)	1	
-36	219-73532-3	WEB	1	
-37	219-73552	ARMOR PLATE, Fwd pilots bulkhead, assy of	1	
-38	AN509-516R15	SCREW	2	
-39	2W1AL20-20-63	WASHER, (North American)	2	
-40	2W1SR20-20-125	WASHER, (North American)	2	
-41	AN5-10A	BOLT	16	
-42	AN5-11A	BOLT	4	
-43	2W18-516M	WASHER, (North American)	2	
-44	NAS679A5	NUT	2	
-45	219-73502	ARMOR PLATE, Front pilots lower	1	
-46	219-73504	ARMOR PLATE, Rear pilots lower	1	
-47	AN3-6A	BOLT	4	
-48	2W18-10M	WASHER, (North American)	2	
-49	NAS679A3	NUT	4	
-50	AN4-10A	BOLT	1	
-51	AN4-7A	BOLT	3	
-52	2W18-416	WASHER, (North American)	4	
-53	NAS679A4	NUT	4	
-54	219-73533-1	SUPPORT, Rear pilots shoulder harness to armor plate LH	1	
-55	219-73533-2	SUPPORT, Rear pilots shoulder harness to armor plate RH	1	
-56	AN509-416R10	SCREW	3	
-57	AN4-4A	BOLT	3	
-58	AN4-6A	BOLT	3	
-59	2W18-416	WASHER, (North American)	6	
-60	NAS679A4	NUT	6	
-61	219-73535	ANGLE, Rear bulkhead armor plate to traverse	2	
-62	219-73534	BAR, Traverse rear bulkhead armor plate	1	
-63	219-73555	ARMOR PLATE, Aft pilots bulkhead	1	
	219-71002	WIRING DIAGRAM, ARN6 compass adapter	1	
-64	MS25183-16S1S	RECEPTACLE	1	
-65	MS3101A16S1P	PLUG	1	
-66	219-71037	SUPPORT, ARN6 radio loop antenna, assy of	1	
-67	10245-1	LIGHT ASSY, cockpit type C4A (Soderberg) (relocated)	1	
-68	219-73537	LATCH, Cont lock handle downlock (replaces 159-52024)	1	
-69	AN520-10R13	SCREW	3	
-70	AN520-10R16	SCREW	3	
	2W18-10M	WASHER, (North American)	4	
	NAS679A3	NUT	4	
-71	EA318-2	CONTROL BOX, Warning light (liquidometer) (relocated)	1	
-72	AS313B/ARN	LOOP ANTENNA, (GFAE) (see fig. 177A, Section II)	Ref	

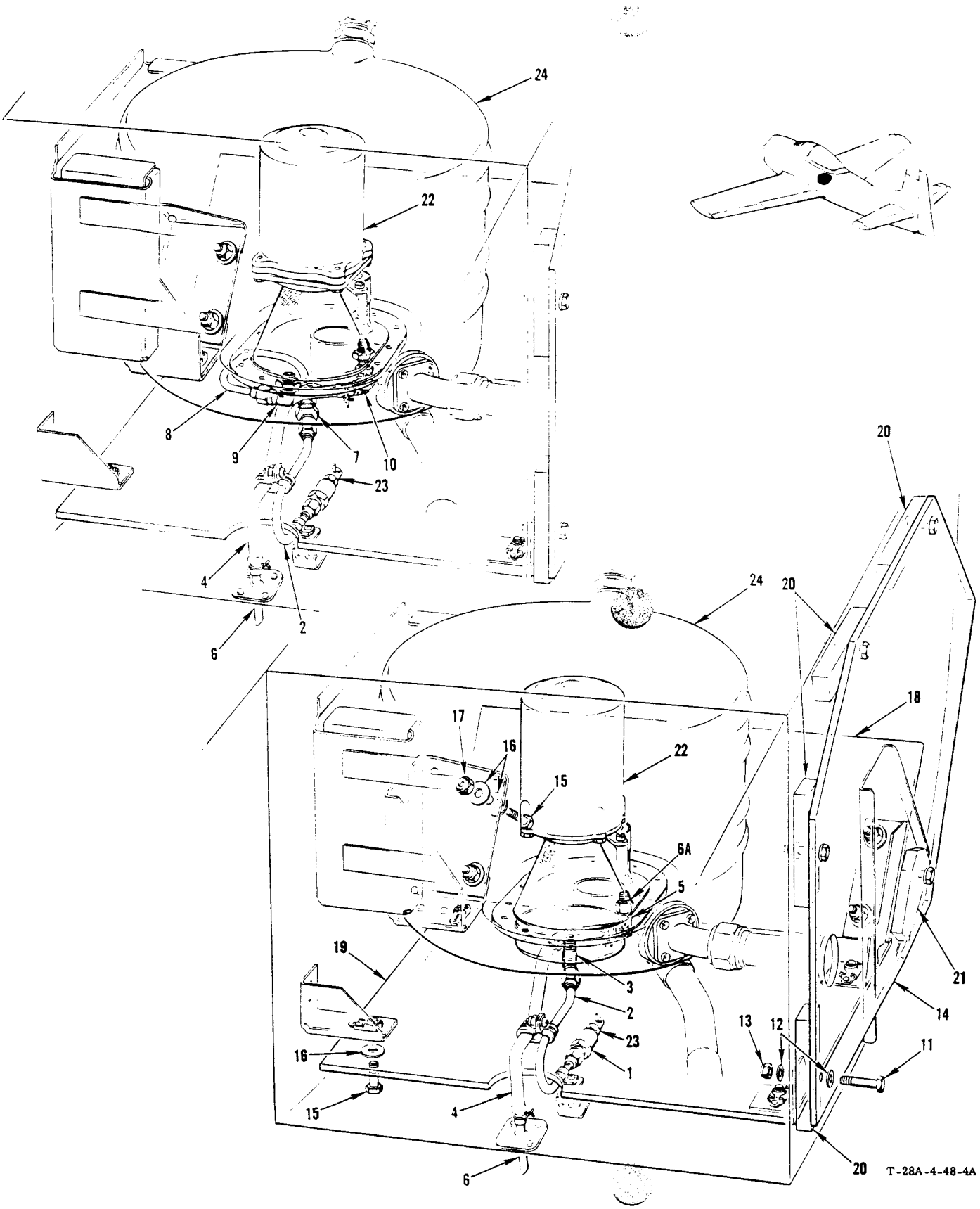

FIGURE 3 - FUEL SUMP ARMOR PLATE AND DRAIN LINES INSTALLATION

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
8	189-735020		ARMOR PLATE, Fuel sump, assy of (see figure 7 for next assembly)	Ref	
	189--80032		. FUEL SUMP DRAIN LINES INST, Fuselage RH side (mod)	NP	
-1	189--80033		. . FITTING, Fuel pump drain (mod)	1	
-2	189--80801-7		. . LINE ASSY, Sump drain to overboard	1	
-3	AN822--D	*1	. . ELBOW	1	
-4	1002B13-14		. . HOSE, (North American)	1	
-5	189--80032-13	*1	. . ADAPTER, Fuel sump	1	
-6	189--80032-5		. . DRAIN ASSY, Fuel sump	1	
-6A	189--80032-15	*1	. . ADAPTER, Fuel sump drain	1	
-7	AN815--D	*2	. . UNION	1	
-8	189--80801-17	*2	. . LINE ASSY, Fuel sump drain to overboard drain line	1	
-9	MS21908D4	*2	. . ELBOW	1	
	MS29513-12	*2	. . PACKING	1	
	AN924--D	*2	. . NUT	1	
-10	AN838--D	*2	. . ELBOW	1	
	MS29513-12	*2	. . PACKING	1	
	AN924--D	*2	. . NUT	1	
-11	AN3-7A		. BOLT	8	
-12	2W1AL1--16-63		. WASHER, (North American)	11	
-13	MS20365-1032		. NUT	8	
-14	189-735200		. ARMOR PLATE, Sump tank aft bulkhead fuselage sta 95.75 (mod)	1	
-15	AN4-6A		. BOLT	8	
-16	2W1AL13-20-63		. WASHER (North American)	12	
-17	MS20365--23		. NUT	4	
-18	189-735210-3		. ARMOR PLATE, Sump tank fuselage sta 79.75 to 95.75 (mod)	1	
-19	189-735210-5		. ARMOR PLATE, Sump tank fuselage sta 79.75 to 95.75 (mod)	1	
-20	189-735211-3		. SPACER, Armor plate to bulkhead attach fus sta 95.75	4	
-21	189-735211-5		. SPACER, Armor plate to bulkhead attach fus sta 95.75	1	
-22	TF31-00-37		PUMP ASSY, Fuel booster (Thompson Products) (see fig. 94, Section II)	Ref	
-23	10A1-50		VALVE ASSY, Drain (Curtis Automotive Devices) (see figure 94 Section II)	Ref	
-24	17---3105		TANK ASSY, Fuselage fuel sump complete (see figure 8, Section II)	Ref	

*1 Used with Thompson Products TF31-00-37 pump.
*2 Used with Thompson Products TF31-00 pump.

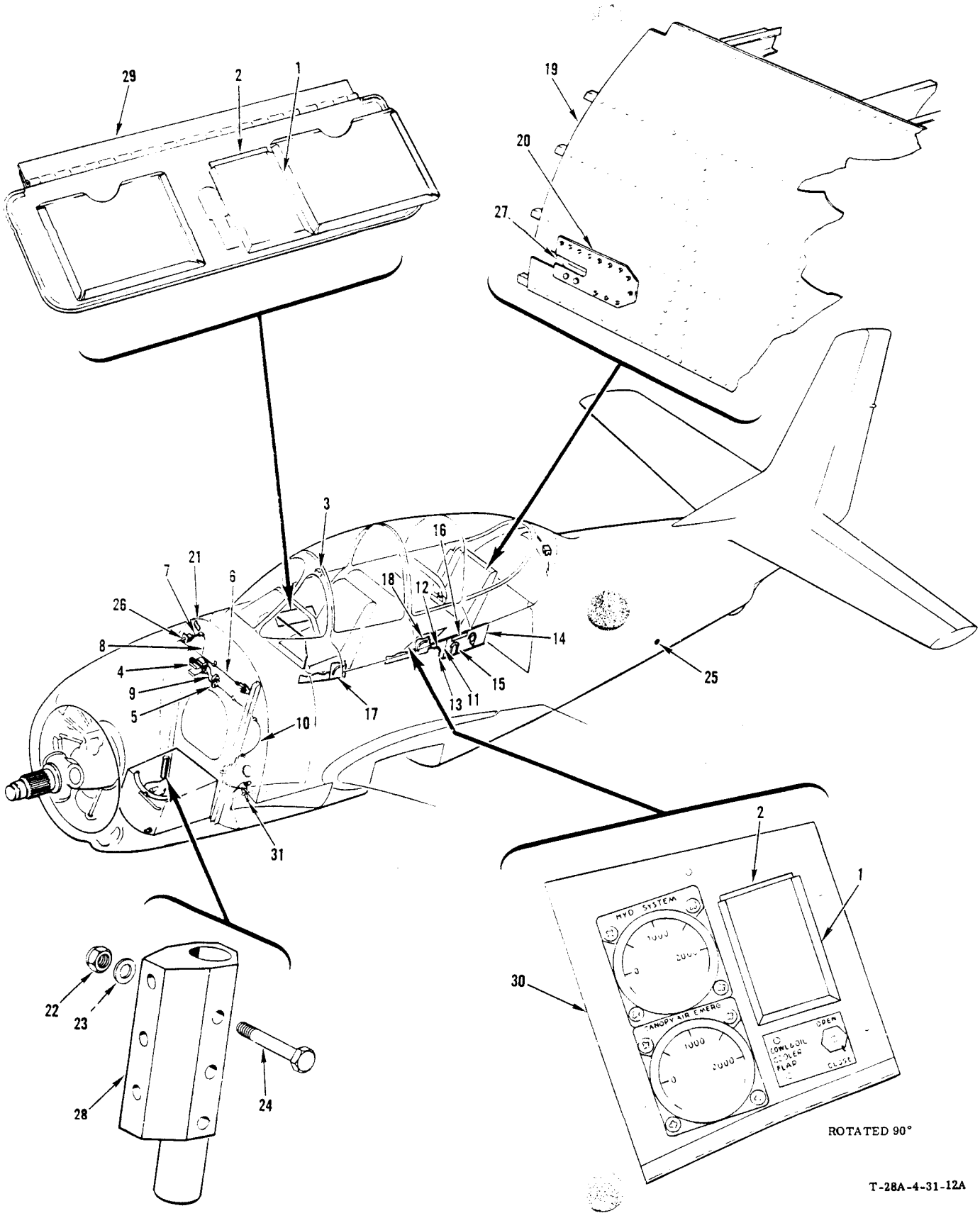

FIGURE 9 - FUSELAGE STATION 49.500 TO STATION 238.375 FORWARD FUSELAGE SECTION COMPLETE

FUSELAGE (CONT)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
9	189-316010		FUSELAGE FORWARD SECTION, Fus sta 49.500 to sta 238.875 complete, assy of (see figure 5 for next assy)	Ref	
	No Number		. FUSELAGE STATION 49.500 to STATION 238.875 FORWARD FUSELAGE SECTION COMPLETE (CONT) (see fig. 9A for breakdown)	NP	
	189-480031		. STRAINER INSTL, Fus fuel system (mod) (see figure 16 for breakdown)	NP	
	200-47031		. OIL SYSTEM EQUIPMENT INSTL, Fus section (see figure 31 for breakdown)	NP	
	189-428001		. LINES INSTL, Engine drain (mod) (see figure 16 and 17 for breakdown)	NP	
	189-511360		. INSTRUMENT LINES INSTL, Fus sta 168 to 238.875 (mod) (see fig. 9B for breakdown)	NP	
	189-733320		. OXYGEN SYSTEM EQUIPMENT INSTL, Fus rear (see fig. 13 for breakdown)	NP	
	189-530310		. FURNISHING EQUIPMENT INSTL, Fuselage (mod)	NP	
-1	AN5800-1		. . HOLDER (RH fwd console, LH aft console)	2	
-2	AN5823-1		. . CARD, (compass correction)	2	
-3	AN5766T4		. . COMPASS, (stand-by) (GFAE)	1	
	MS35214-31		. . SCREW	2	
	189-540340		. ELECTRICAL EQUIPMENT INSTL, Fuselage sta 49.59 (mod)	NP	
-4	WEE4-371	*1	. . POWER UNIT (Air Associates) (interchangeable with Air Associates WEE4-371M1)	1	
-5	M1670M101	*1	. . DRIVE ASSY, "H" (Air Associates) (interchangeable with Air Associates M1670M1)	1	
-6	WM2-514M25		. . SHAFT, Flexible (22 3/4") (Air Associates)(interchangeable with Air Associates M4241-2275)	1	
-7	WM2-514M26		. . SHAFT, Flexible (2 3/4") (Air Associates) (interchangeable with Air Associates M4241-0275)	1	
-8	WM2-514M24		. . SHAFT, Flexible (15 1/16") (Air Associates) (interchangeable with Air Associates M4241-1506)	1	
-9	WM2-514M22		. . SHAFT, Flexible (6 1/2") (Air Associates) (interchangeable with Air Associates M4241-0650)	1	
-10	WM2-514M23		. . SHAFT, Flexable (55") (Air Associates) (interchangeable with Air Associates M4241-5500)	1	
-11	200-31725-21		. PANEL ASSY, Fus sta 121 3/8 to 136 1/16 cockpit close-out LH.	1	
-12	200-31725-7		. . STRIP, Fus 121.375 to 136.063 cockpit close-out left pnl.	1	
-13	200-31725-9		. . STRIP, Fus 121.375 to 136.063 cockpit close-out left pnl.	1	
-14	200-31727-11		. PANEL ASSY, Fus sta 135 3/8 to 160 7/16 cockpit canopy handle access	1	
-15	159-31729		. . DOOR ASSY, Aft cockpit canopy handle access.	1	
	ATTACHING PARTS				
	AN515-8R7		. . SCREW	2	
	---*---				
-16	159-318419		. . PLATE, Cockpit canopy handle access	1	
-17	199-31445-1		. COVER ASSY, Fus sta 69 5/32 to 81 5/16 side left console (mod)	1	
	159-31445		. . COVER ASSY, Console fwd fus sta 69 5/32 to 81 5/16 side left (see fig. 62, Section II for breakdown)	1	
-18	199-31445-2		. COVER ASSY, Fus sta 121 9/32 to 134 7/16 side left console (mod)	1	
	159-31444		. . COVER ASSY, Console aft fus sta 122 9/32 to 134 7/16 left side (see fig. 62, Section II for breakdown)	1	
	189-311070		. PANEL, Fus sta 49.500 to 168.000 RH side, assy of (mod)	1	
-19	189-311160		. . BULKHEAD, Fus sta 156.355 canted rear, assy of	1	
-20	189-311160-5		. . . DOOR, Fus sta 156.355 canted rear, bhd of	1	
	MS21042-3		. . . NUT,	13	
	2W18-10M		. . . WASHER, (North American)	13	
	AN3-4A		. . . BOLT,	13	
	189-312190		. . FIREWALL, Fus sta 49.50 RH side, assy of (mod)	1	
-21	200-31905		. . . HOOK ASSY, Engine mount to firewall	1	
-22	AN365-428		. . . NUT,	3	
-23	AN960D416		. . . WASHER,	3	
-24	AN4-16A		. . . BOLT,	3	
	189-311030		. PANEL, Fus sta 168 to sta 236.875, assy of (mod)	1	
-25	42A13995		. . TUBE, Static press. (GFAE) (AERNO 60-9700) (relocated)	2	
	42A11521		. . PLATE, Flush static press. tube backing (GFAE) (relocated)	2	
-26	M2139		DRIVE "T", (Air Associates (see fig. 154, Section II)	Ref	
-27	171-71045		CLAMP ASSY, Radio harness (see fig. 67, Section II)	Ref	
-28	159-55007		FITTING, Fus sta 49.5 firewall jacking attg (see fig. 65, Section II)	Ref	
-29	159-314119		COVER ASSY, RH fwd console map case (see fig. 61, Section II)	Ref	
-30	159-31431		PANEL ASSY, Console aft canted inst sup LH (see fig. 62, Section II)	Ref	
-31	M6070		JACK ASSY, Oil cooler screw (see fig. 9A)	Ref	

*1 189-540341 Power Unit together with M1670M104 drive assy may be used until exhausted.

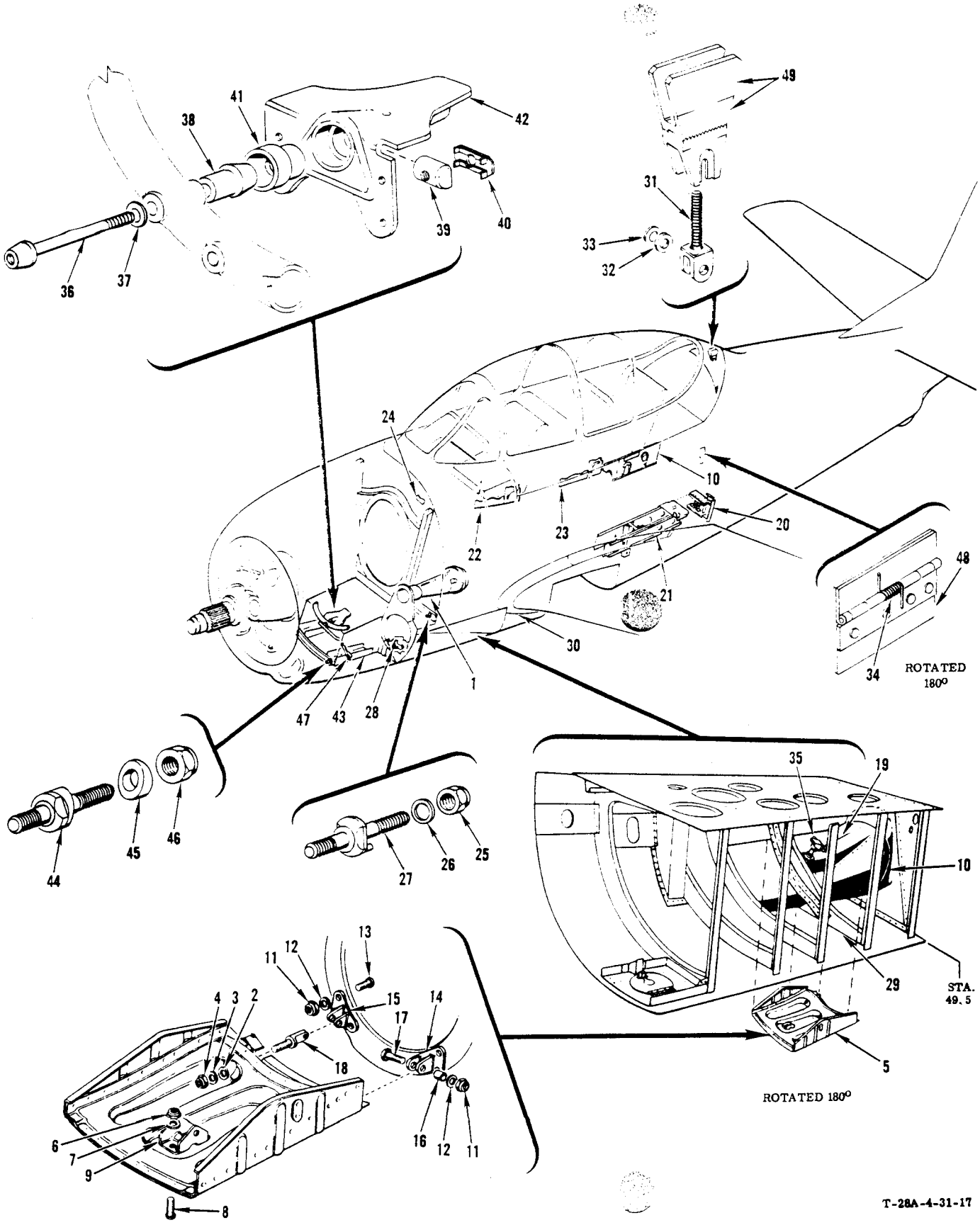

FIGURE 9A - FUSELAGE STATION 49.500 TO STATION 238.375 FORWARD FUSELAGE SECTION COMPLETE (CONT)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
9A	No Number	FUSELAGE STATION -9.500 TO STATION 238.875 FORWARD FUSELAGE. . . SECTION COMPLETE (CONT) (see fig. 9 for next assy)	NP	
	189-311040	. PANEL, Fus sta -9.500 to sta 168.000 LH side, assy of (mod) .	1	
-1	200-33410-11	. . DUCT ASSY, Heat and vent sys cockpit heater attg fwd . . .	1	
-2	AW1-24--20--6	. . WASHER, (North American)	1	
-3	AW17-61C	. . WASHER, (North American)	1	
-4	MS20365-524	. . NUT	1	
-5	200--7117	. . DOOR ASSY, Oil cooler air duct exit	1	
-6	AN365--428	. . . NUT	1	
-7	AN960--10	. . . WASHER	1	
-8	MAS212-12	. . . SCREW	1	
-9	200--7131	. . . BRACKET, Oil cooler air exit door actuator	1	
-10	200--7111	. . DUCT ASSY, Oil cooler aft exit complete	1	
-11	AN365--428	. . . NUT	1	
-12	AW18--1C	. . . WASHER, (North American)	10	
-13	AN509--10R12	. . . SCREW	1	
-14	200--7124	. . . HINGE, Oil cooler air duct exit door fuselage lwr . . .	1	
-15	200--7123	. . . HINGE, Oil cooler air duct exit door fuselage upr . . .	1	
-16	AB210--613	. . . BUSHING, (North American)	1	
-17	AN--12A	. . . BOLT	1	
-18	200--7122	. . . BOLT, Oil cooler air duct exit door eye	1	
-19	200--7125	. . BEAM ASSY, Oil cooler air exit door actuator support . . .	1	
-20	189-311151	. . SUPPORT, Fus sta 161.689 flap cylinder rear, assy of . . .	1	
-21	159-311148-501	. . CHANNEL ASSY, Fus sta 136 to 168 flap cylinder (see fig. 9A, Section II for breakdown)	1	
-22	159-31448-701	. . COVER ASSY, Fwd console fus sta 82 1/8 to 89 3/16. side left (mod dwg 189-31--30)	1	
-23	159-31449-701	. . COVER ASSY, Aft console fus sta 103 to 112 side left (mod dwg 189-31-480)	1	
	189-311139	. . FIREWALL, Fus sta -9.50 LH side, assy of (mod	1	
-24	200-31938	. . . HOOK ASSY, Engine mount to firewall	1	
-25	AN365--428	. . . NUT	1	
-26	AW18--1C	. . . WASHER, (North American)	1	
-27	200-315381-11	. . . STUD ASSY, Eng lower LH cowl firewall attaching	1	
-28	200-315377	. . . FITTING, Eng lower LH cowl firewall lower	1	
	ATTACHING PARTS			
	AN3-5A	. . . BOLT	1	
	AW18-1C	. . . WASHER, (North American)	1	
	AN365-1032	. . . NUT	1	
	MAS666A3	. . . NUT	1	
	159-315-20-8	. . . . BUSHING, Engine cowling firewall support	1	
-29	189-311580	. . FRAME, Fus sta 89.125 lwr LH, assy of (mod)	1	
-30	159-10004-11	. . FILLET ASSY, Wing to fuselage leading edge LH	1	
-31	200-31625	. . YOKE, Rear cockpit enclosure rear attaching	1	
-32	AW1-20-20-6	. . WASHER, (North American)	1	
-33	AW1AL26-20-32	. . WASHER, (North American)	AR	
	AW1AL26-20-16	. . WASHER, (North American)	AR	
-34	200-18251	. . SPRING, Flap by-pass handle access door	1	
-35	76670	. . JACK ASSY, Oil cooler screw (Air Associates, for attaching parts see fig. 151, Section II.	1	
-36	MAS148DH73	. BOLT	1	
-37	MAS1-3-80	. WASHER	1	
-38	200-31918	. FITTING, Engine mount to fuselage lower tapered	1	
	189-311330	. BEAM ASSY, Nose wheel trunnion complete (mod)	1	
	199-31250-11	. . FITTING ASSY, Fuselage lower engine mount attaching . . .	1	
-39	MAS577-8	. . . NUT	1	
-40	MAS578-8B	. . . RETAINER	1	
-41	159-31950	. . . BUSHING, Fuselage lower engine mount attg fitting . . .	1	
-42	199-31250-13	. . . FITTING, (altered from 159-31250)	1	
-43	189-311300	. . FAIRING, Nose gear beam, assy of	1	
	200-315381-11	. . STUD ASSY, Engine lwr LH cowl torque box attaching . . .	1	
-44	200-315382-9	. . . STUD, Engine lower LH cowl torque box attaching	1	
-45	200-315383	. . SPACER, Engine lower LH cowl torque box attaching	1	
-46	MAS679A4	. . NUT	1	
-47	189-311335-1	. . SEAL, Engine fixed cowl torque box LH, assy of	1	
	189-311335-2	. . SEAL, Engine fixed cowl torque box RH, assy of	1	
	200-31538	. . . BUSHING, Engine fixed cowl torque box seal	1	
-48	159-18250	DOOR ASSY, Flap by-pass handle access (see fig. 64, Section II).	Ref	
-49	For this equipment see fig. 72, Section II			

T. O. 1T-28A--

FUSELAGE INSTRUMENTS

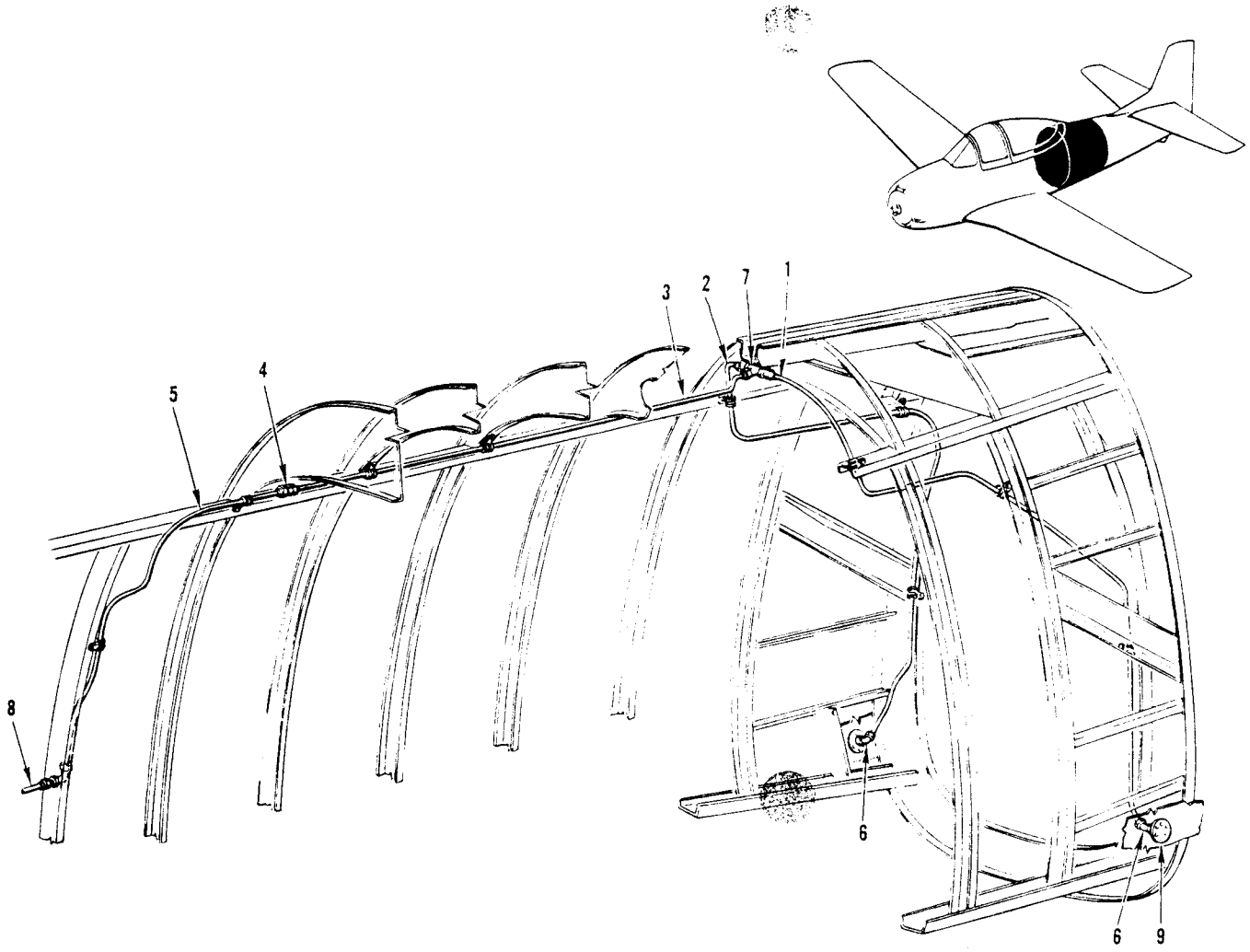

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FIGURE 9B - INSTRUMENT LINES MODIFICATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
9B		INSTRUMENT LINES MODIFICATION		
	189-[illegible]	. INSTRUMENT LINES INSTL. [illegible] (mod).	NP	
-1	189-[illegible]	. . LINE ASSY, Airspeed static. left static port to static port tee	1	
-2	189-[illegible]	. . LINE ASSY. Airspeed static. right static port to static port tee.	1	
-3	189-[illegible]	. . LINE ASSY, Airspeed static. static port tee to union . . .	1	
-4	AN815--D	. . UNION	1	
-5	189-[illegible]	. . LINE ASSY, Airspeed static. [illegible] WL-7.25	1	
-6	AN822--D	. . ELBOW	1	
-7	AN830-D-	. . TEE	1	
	AN960D716	. . WASHER	1	
	AN924--D	. . NUT	1	
-8	159-[illegible]	LINE ASSY. Airspeed static. sta 143 El [illegible] to rear main clamp . . (see Fig. 37, Section II	As Req	
-9	-2A13995	TUBE, Static press. (GFAE relocated see Fig. 9	Ref	

T. O. 1T-28A--

FUSELAGE INSTRUMENT (CONT)

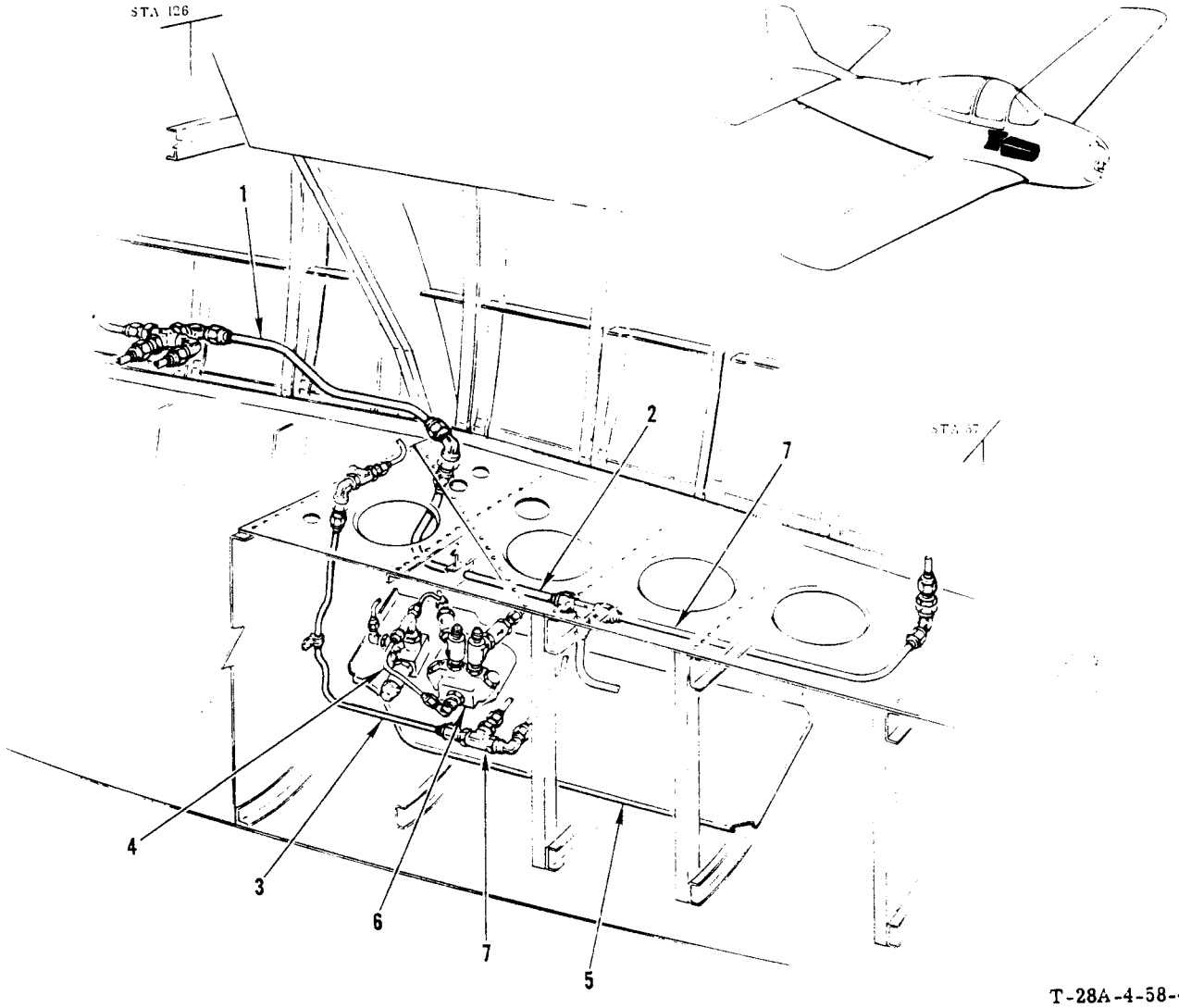

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FIGURE 90 - PILOTS INSTRUMENT PANEL MODIFICATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
90		PILOTS INSTRUMENT PANEL (MODIFICATION)		
	189-810001	. PANEL ASSY, Pilots instrument complete (mod) (Fwd) . . . . . (altered from 1T--810F	1	
	189-810001-3	. PANEL ASSY, Pilots instrument complete (mod) (Fwd . . . . . (altered from 1T--810F	1	
-1	189-810S2	. . PLATE, Cross pointer cover (Fwd pnl)	1	C,D
-2	MS25231--	. . LIGHT ASSY, (Fwd pnl	1	C,D
	MS25231-313	. . LAMP, (Fwd pnl	1	C,D
-3	189-810S3	. . DECAL, Marker beacon (Fwd pnl, ...	1	C,D
-4	189-810012	. . STOP, Accelerometer reset pilots instrument panel . . . . (Fwd and aft pnl	1	
-5	189-810013	. . DECAL, Battery conservation (mod, (Fwd and aft pnl) . . .	1	
-6	189-810S5-15	. . DECAL, (AN/ARC3 and AN/ARC27 inoperative simultaneously . (Fwd and aft pnl	1	
-7	AN3157-2	. . LIGHT ASSY, (aft pnl	1	
	AN3121-313	. . LAMP, (aft pnl	1	
-8	89SCA12521-3	. . DECAL, (aft pnl, CAF dwg, ...	1	
-9	1T--810SF	PANEL ASSY, Pilots instrument comp (see Fig. 99, Section II) . .	Ref	

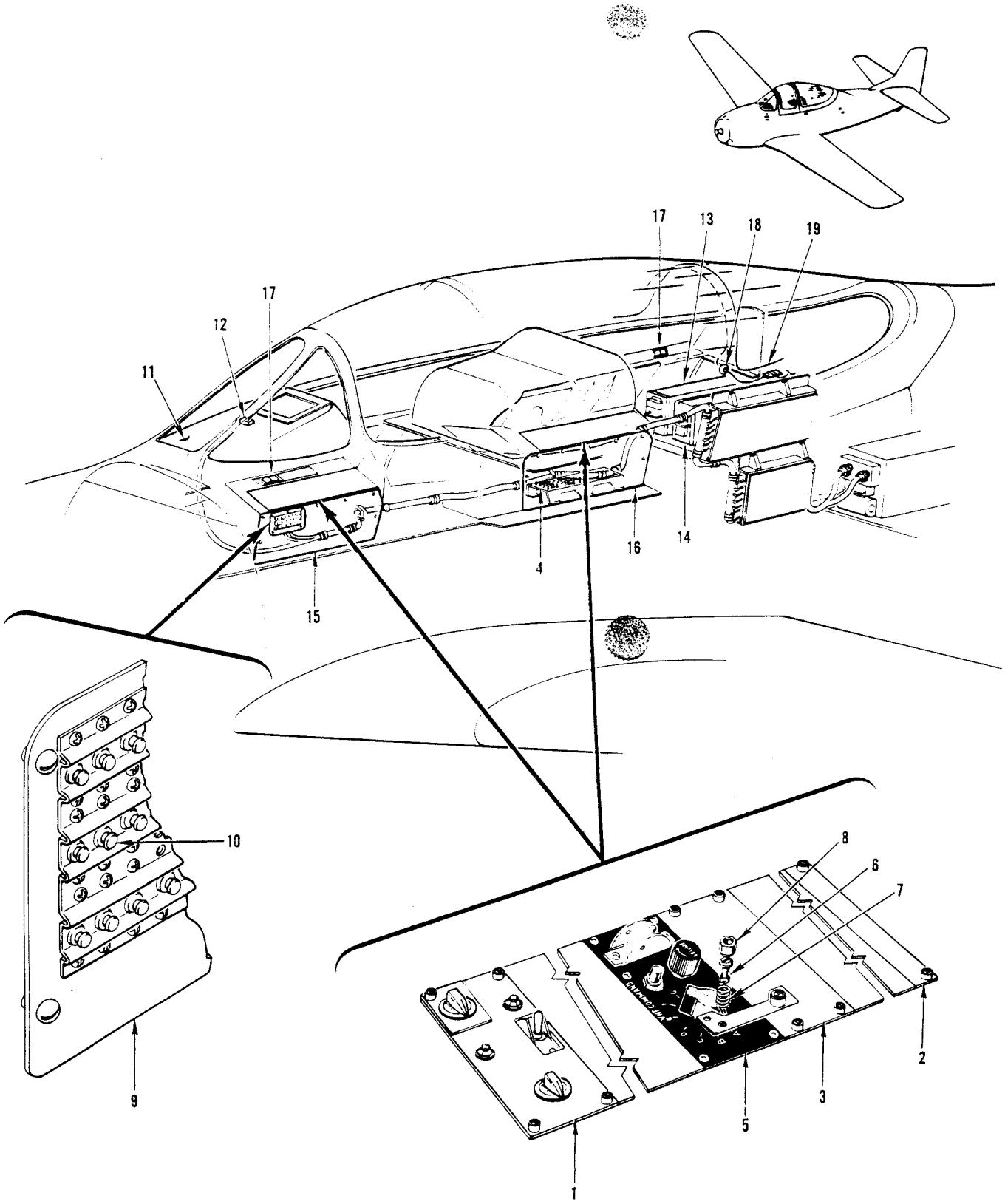


FIGURE 10 - RADIO EQUIPMENT INSTALLATION (MOD)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
10	139-710001	RADIO EQUIP INSTL, (mod) (see figure 11, for additional bkdn). .	NP	
-1	51904/ARC27	. CONTROL, Radio (GFAE) (fwd and aft)	2	A,C
-2	139-710036	. PANEL, Radio fwd & aft console closeout, assy of	2	
	PF3 1/2-38	. . FASTENER, (Dzus)	2	
	PS3 1/2	. . SPRING, (Dzus)	2	
	PC3 1/2	. . CUP, (Dzus)	2	
-3	139-710033	. PANEL, Radio console fwd & aft cknt closeout, assy of	2	C,D
	PF3 1/2-38	. . FASTENER, (Dzus)	1	C,D
	PS3 1/2	. . SPRING, (Dzus)	1	C,D
	PC3 1/2	. . CUP, (Dzus)	1	C,D
--	139-710056	. PANEL ASSY, AFT radio console (mod) (altered from . . . . . 174-710[illegible])	1	
	No Number	. . RESISTOR, (150 ohm) (altered from RC20GF151J) . . . . . (replaces 174-71056-50 resistor assy)	1	
-5	5404A/A	. VHF COMMAND CONTROL PANEL, (GFAE)	2	
	157-71042	. ADAPTER ASSY, AN/ARC4 radio control panel	2	
-6	PF3 1/2-38	. . FASTENER, (Dzus)	1	
-7	PS3 1/2	. . SPRING, (Dzus)	1	
-8	PC3 1/2	. . CUP, (Dzus)	1	
-9	139-540125	. PANEL, Elec circuit breaker (mod) (altered from 174-540350-3)	1	
-10	MS25017-20	. . CIRCUIT BREAKER	1	
	139-54-0126-3	. . DECALCOMANIA, Radio inoperative (ARC3 VHF)	1	
	139-540126-5	. . DECALCOMANIA, Radio inoperative (chip detector)	1	
-11	139-710045	. SHROUD ASSY, Cockpit enclosure fwd (altered from 174-31854) .	1	
-12	AN3436-1-3	. . TERMINAL BLOCK ASSY	1	
	6S7-3--1-1	. . STRIP, (North American)	1	
	AN3434-1	. . STRIP	2	
	CP131 L3	. . COVER, (Olympic Plastics)	1	
-13	DY66/ARN14	. DYNAMOTOR, (GFAE)	1	A,B
-14	R222/ARN18	. RECIEVER, Radio (GFAE)	1	A,B
-15	139-540011	. COVER ASSY, RH fwd console terminal panel closeout (mod) . . (removes 139-314115)	1	A,B,C
-16	139-540012	. COVER ASSY, RH aft console terminal panel closeout (mod) . . (removes 139-314126)	1	A,B,C
-17	153-71172	. CARD, Frequency channel designation (fwd & aft, ...	2	
	139-710004	. RADIO INSTL, AN/ARN6 antenna replacement (altered from . . . 226-97100-)	1	
-18	200-71092	. . TERMINAL ASSY, Canopy radio antenna lead-in	1	
	AN515-8R5	. . SCREW	1	
	2W1AL12-22--0	. . WASHER, (North American	1	
-19	M01	. . ANTENNA SET, No. 100 (C & H Supply)	1	

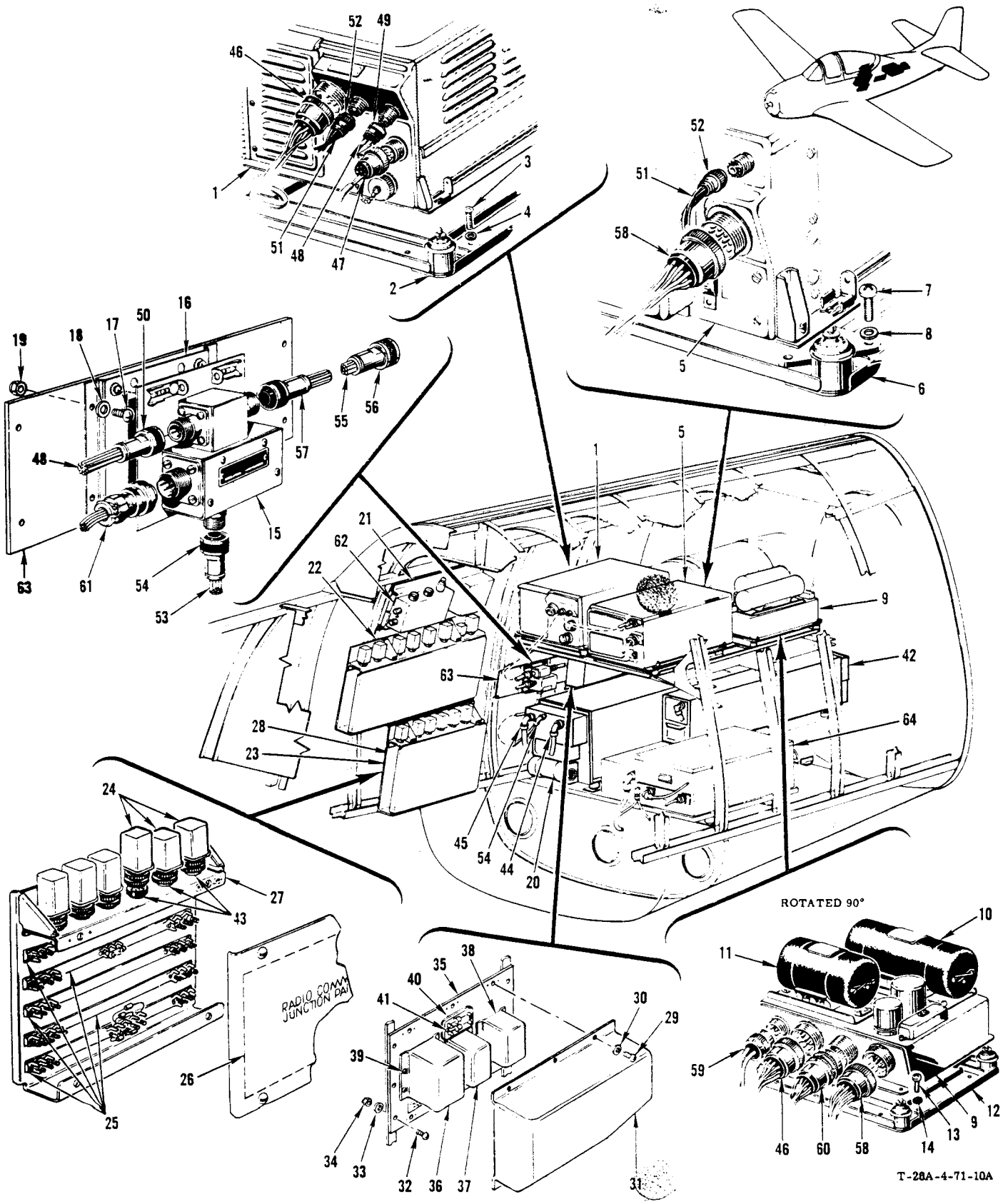


FIGURE 11 - RADIO EQUIP INSTL MOD. (CONTINUED)

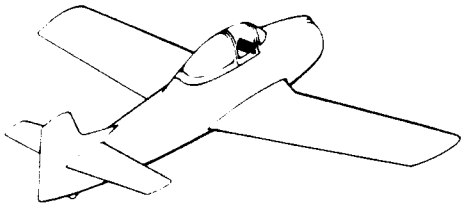
FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
11	189-710001		RADIO EQUIP INSTL (MOD) (CONTINUED) (see fig. 10 for additional breakdown)	NP	
-1	T67/ARC3	.	TRANSMITTER (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (7550.00) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (7010.00) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (7660.00) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (6750.00) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (7930.00) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (6772.22) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (7890.00) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (7450.00) (GFAE)	1	B,C,D
-2	MT238A/ARC3	.	MOUNTING BASE (GFAE)	1	B,C,D
	ATTACHING PARTS				
-3	AN520-10R8	.	SCREW	8	B,C,D
-4	2W18-10M	.	WASHER, (North American)	8	B,C,D
	---*---				
-5	R77A/ARC3	.	RECEIVER (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (3260.00) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (3155.71) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (3392.00) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (3423.08) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (3171.25) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (3453.85) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (3126.25) (GFAE)	1	B,C,D
	CR1A/AR	.	CRYSTAL UNIT, (3140.00) (GFAE)	1	B,C,D
-6	MT237B/ARC3	.	MOUNTING BASE (GFAE)	1	B,C,D
	ATTACHING PARTS				
-7	AN520-10R8	.	SCREW	8	B,C,D
-8	2W18-10M	.	WASHER, (North American)	8	B,C,D
	---*---				
-9	J68/ARC3	.	POWER JUNCTION BOX (GFAE)	1	B,C,D
-10	DY21/ARC3	.	DYNAMOTOR UNIT (GFAE)	1	B,C,D
-11	DY22/ARC3	.	DYNAMOTOR UNIT (GFAE)	1	B,C,D
-12	MT236/ARC3	.	MOUNTING BASE (GFAE)	1	B,C,D
	ATTACHING PARTS				
-13	AN520-10R8	.	SCREW	8	B,C,D
-14	2W18-10M	.	WASHER, (North American)	8	B,C,D
	---*---				
-15	RE120/ARA25	.	SOLENOID RELAY (GFAE)	1	
-16	MT1042/ARA25	.	MOUNTING BASE (GFAE)	1	
	ATTACHING PARTS				
-17	AN515-8R8	.	SCREW	4	
-18	2W18-8	.	WASHER, (North American)	4	
-19	AN365-832	.	NUT	4	
	---*---				
-20	RT178/ARC27	.	RECIEVER, Transmitter (GFAE)	1	A,C
	AN520-10R10	.	SCREW	8	A,C
-21	189-540127	.	PANEL ASSY, Dual compass equipment (altered from 174-54066)	1	
-22	189-710028	.	BRACKET, Radio function panel, assy of (altered from 171-71015)	1	
-23	189-710041	.	PANEL ASSY, Radio function complete (altered from 174-71014)	1	
-24	3220-4988	. .	RELAY, (Lead) (radio function box)	3	
-25	MS25123-1-20	. .	TERMINAL STRIP	5	
	5S7-3-21-1-20	. .	STRIP, (North American)	5	
	AN341-6A	. .	NUT	100	
	AN936A6B	. .	WASHER	100	
	AN961-6	. .	WASHER	100	
-26	189-710042	. .	CHART, Radio command function panel	1	
-27	189-710043	. .	CHANNEL ASSY, Radio function panel	1	
	S5-200	. . .	SPRING, Dzus)	2	
-28	189-710030	.	PANEL ASSY, Fus sta 177.75 to 207.187 RH side (mod	1	
-29	AN520-10R8	.	SCREW	6	
-30	2W18-10M	.	WASHER, (North American)	6	
-31	189-710054	.	COVER, Transfer and isolation relays	1	
-32	AN520-10R8	.	SCREW	6	
-33	2W18-10M	.	WASHER, (North American)	12	
-34	MAS679A3	.	NUT	6	
	187-710053	.	PANEL, Transfer and isolation relays	1	
-35	187-710053-11	. .	PANEL SUB ASSY, Transfer and isolation relays	1	
	187-710053-3	. . .	PANEL, Transfer and isolation relays	1	
	187-710053-5	. . .	SHIM, Transfer and isolation relays	1	
-36	MS25024-2	. .	RELAY, (Transfer, ARC3 and ARC27)	1	
-37	MS2-149D1	. .	RELAY, (Fail isolation)	1	
-38	MS2-149D1	. .	RELAY, (Call isolation)	1	
-39	AN515-8R8	. .	SCREW	12	
	2W18-8L	. .	WASHER, (North American)	12	
	MAS679A08	. .	NUT	12	

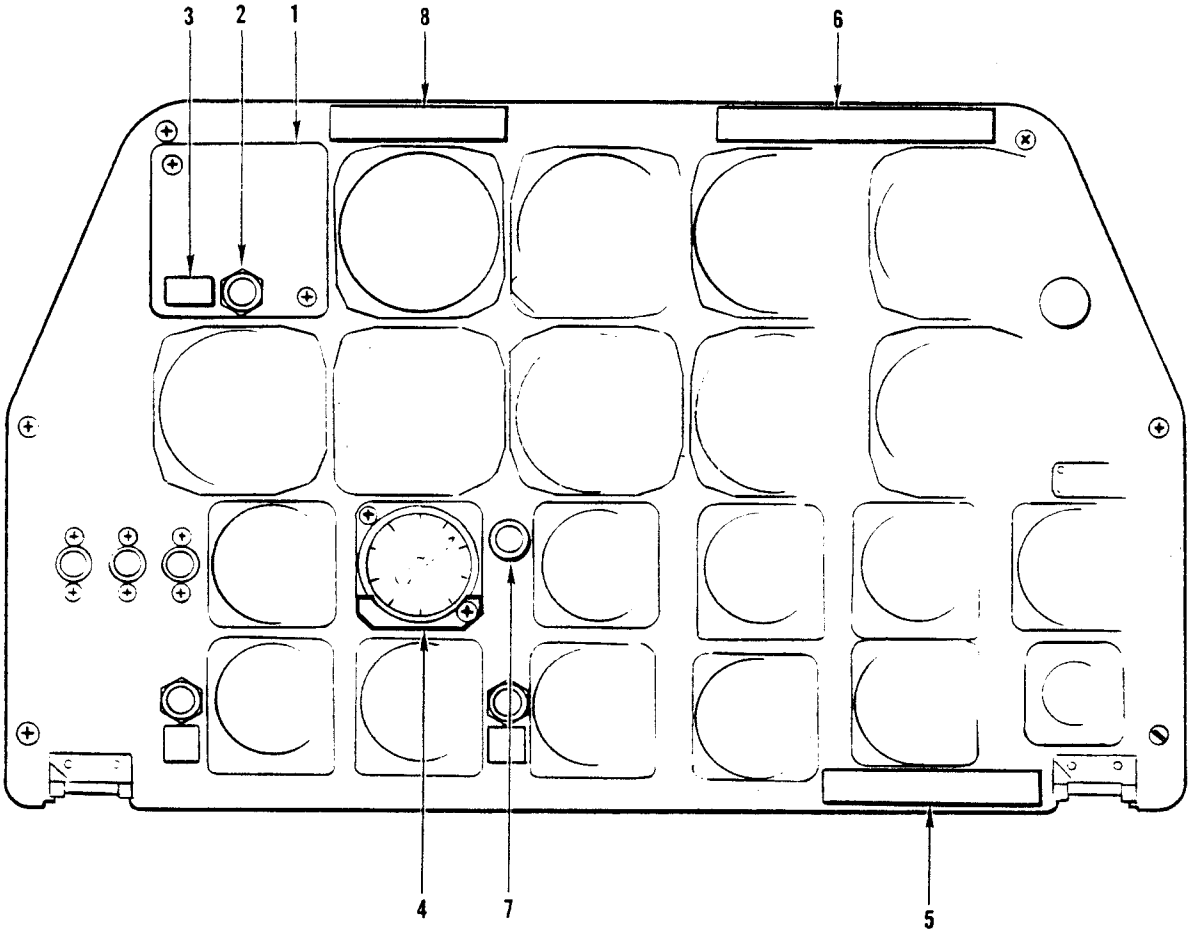
(Nomenclature continued on next page)

FUSELAGE RADIO (CONT)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
11-40	189-710055	. . DIODE, Elec circuit isolation, assy of (mod)	1	
	IN540	. . . DIODE, (Texas Instruments)	2	
-41	AN515-4R6	. . SCREW	2	
	2W18-4L	. . WASHER, (North American)	4	
	NAS679A04	. . NUT	2	
-42	R252/ARN14	. RECIEVER, Radio (GFAE)	1	
	189-710014	. WIRING DIAGRAM, Radio AN/ARC27 UHF	1	
-43	MS3108-20-27S	. . RECEPTACLE	1	
-44	MS25183-24-6S	. . CONNECTOR, (RT178/ARC27 reciever)	1	
-45	MS25183-24-7S	. . CONNECTOR, (RT178/ARC27 reciever)	1	
	189-710012	. WIRING DIAGRAM, Radio AN/ARC27 UHF	1	
-46	U15/U	. . PLUG, (Novelty Tool Co.)	1	
-47	PL161A	. . PLUG, (Novelty Tool Co.)	1	
	189-710050-20	. . CABLE ASSY, AN/ARC27 radio antenna	1	
-48	189-710050-2	. . . CABLE, AN/ARC27 radio antenna (RG8A/U)	1	
-49	PL259A	. . . PLUG	1	
-50	UG21D/U	. . . PLUG	1	
	189-710050-10	. . CABLE ASSY, AN/ARC27 radio antenna	1	
-51	189-710050-1	. . . CABLE, AN/ARC27 radio antenna (RG8A/U)	1	
-52	PL259A	. . . PLUG	1	
	189-710050-30	. . CABLE ASSY, AN/ARC27 radio antenna	1	
-53	189-710050-3	. . . CABLE, AN/ARC27 radio antenna	1	
-54	UG21D/U	. . . PLUG	2	
	189-710050-40	. . CABLE ASSY, AN/ARC27 radio antenna	1	
-55	189-710050-4	. . . CABLE, AN/ARC27 radio antenna	1	
-56	UG22D/U	. . . PLUG	1	
-57	UG21D/U	. . . PLUG (to VHF-UHF pyrmid antenna)	1	
-58	PL161A	. . PLUG	1	
-59	PL1-3A	. . PLUG	1	
-60	U15/U	. . PLUG	1	
-61	MS25183-1-32S	. . PLUG	1	
-62	171-8-0-1	BOX ASSY, Comp elec gyro compass (unction (see Fig. 13), Section II	Ref	
-63	189-710027	BRACKET, Radio RE120/ARA25 relay (see Fig. 5)	Ref	
-64	R101/ARN6	RECIEVER, Radio compass (GFAE) (see Fig. 17), Section II	Ref	

T. O. 1T-28A-4
FUSELAGE HYDRAULICS





T-28A-4-51-6

FIGURE 11A - HYDRAULIC SYSTEM MODIFICATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
11A		HYDRAULIC SYSTEM MODIFICATION		
	139-388006	. HYDRAULIC SYS INSTL, LH (lwr fus sta -9.500 and fus sta 97.500 (mod)	NP	
-1	139-388080-3	. . LINE ASSY, Hyd return, fus sta 126 cross to sta 92 bulkhead elbow	1	
-2	139-388080-5	. . LINE ASSY, Hyd return, elbow sta 92 to tee sta 85.38 . . .	1	
-3	139-388080-9	. . LINE ASSY, Hyd press., Tee to elbow sta 95	1	
-4	139-388080-7	. . LINE ASSY, Hyd steering return, selector valve to pressure reducer	1	
-5	139-388069-20	PANEL ASSY, Hyd LH lwr fus sta 68.75 to 97.5 equipment (see fig. 122, Section II)	Ref	
-6	139-388049-3	VALVE ASSY, Hyd nose gear steering sel complete (see fig. 126, Section II)	Ref	
-7	See fig. 122, Section II for the continuation of this hyd equip		Ref	

T. O. 1T-28A--

FUSELAGE FURNISHINGS

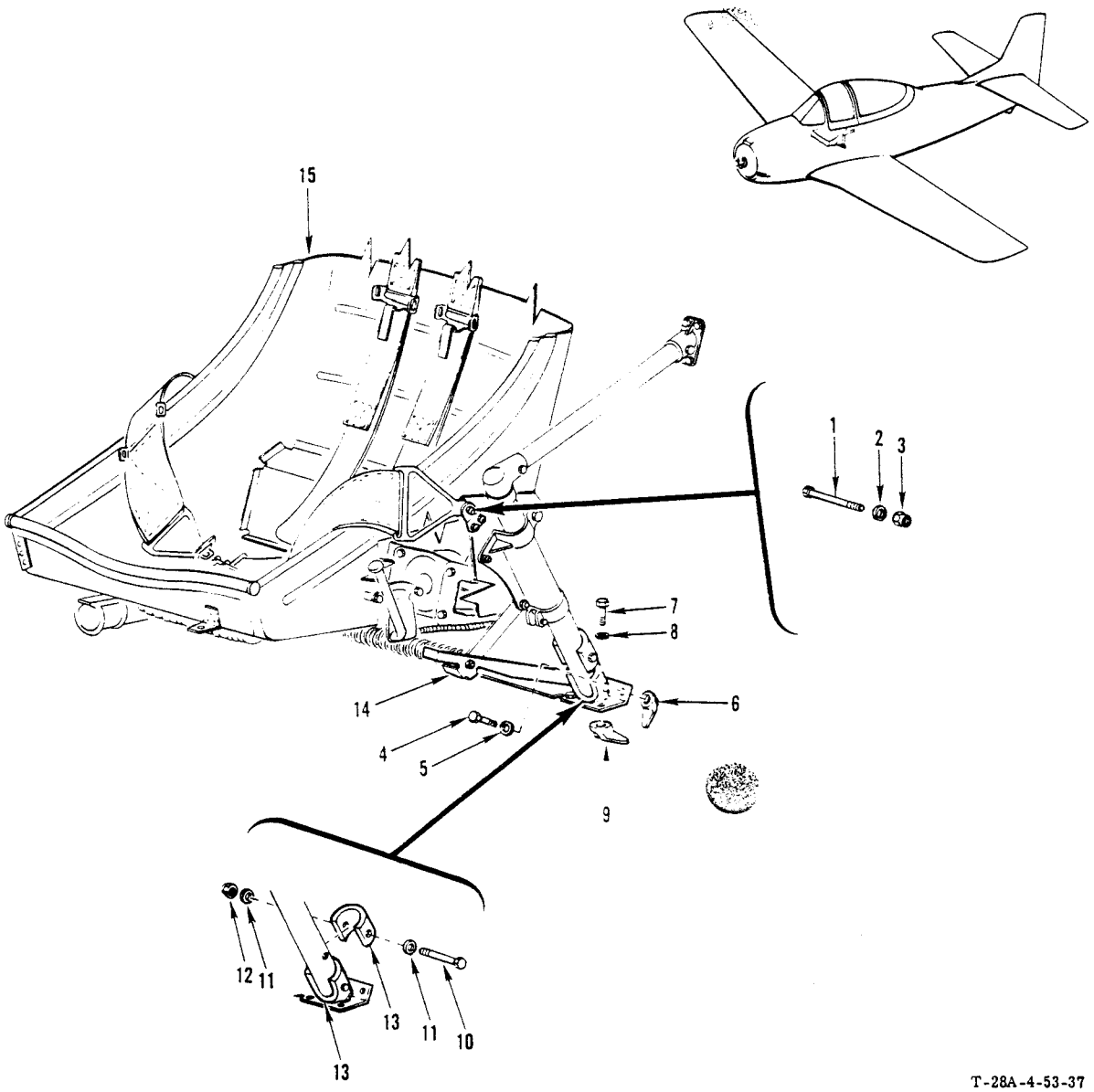


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FIGURE 11B - FORWARD AND AFT COCKPIT SEAT MODIFICATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
11B			FORWARD AND AFT COCKPIT SEAT MODIFICATION		
	189-530080		. SEAT INSTL, Fwd and aft cockpit (see Fig. 5 for NHA)	NP	
-1	AN240-14A		. . BOLT	4	
-2	AN960--16		. . WASHER	4	
-3	MS20365--28		. . NUT	4	
-4	AN4-6A		. . BOLT	2	
-5	2W18--16M		. . WASHER, (North American)	2	
-6	K1910-4		. . NUT, (Kaynar)	2	
-7	AN4-7A		. . BOLT	2	
-8	2W18--16M		. . WASHER, (North American)	2	
-9	K1910--		. . NUT, (Kaynar)	2	
-10	AN3-17A		. . BOLT	2	
-11	2W18-10M		. . WASHER, (North American)	4	
-12	MS21042L3		. . NUT	4	
-13	219-73538		. . STOP, Pilots seat adjustment, fwd and aft seats	2	
-14	189-530312-11		. . LINK, Torque pilots seat LH assy (mod)	1	
	189-530312-5		. . . HUB, Torque pilots seat link (altered from Vic Pastushin Industries 100-315-1T)	1	
	189-530312-12		. . LINK, Torque pilots seat RH assy (mod)	1	
	189-530312-6		. . . HUB, Torque pilots seat link (altered from Vic Pastushin Industries 100-315T)	1	
-15	120-100		SEAT ASSY, T28 Trainer (Vic Pastushin Industries) (see Fig. 13T, Section II)	Ref	

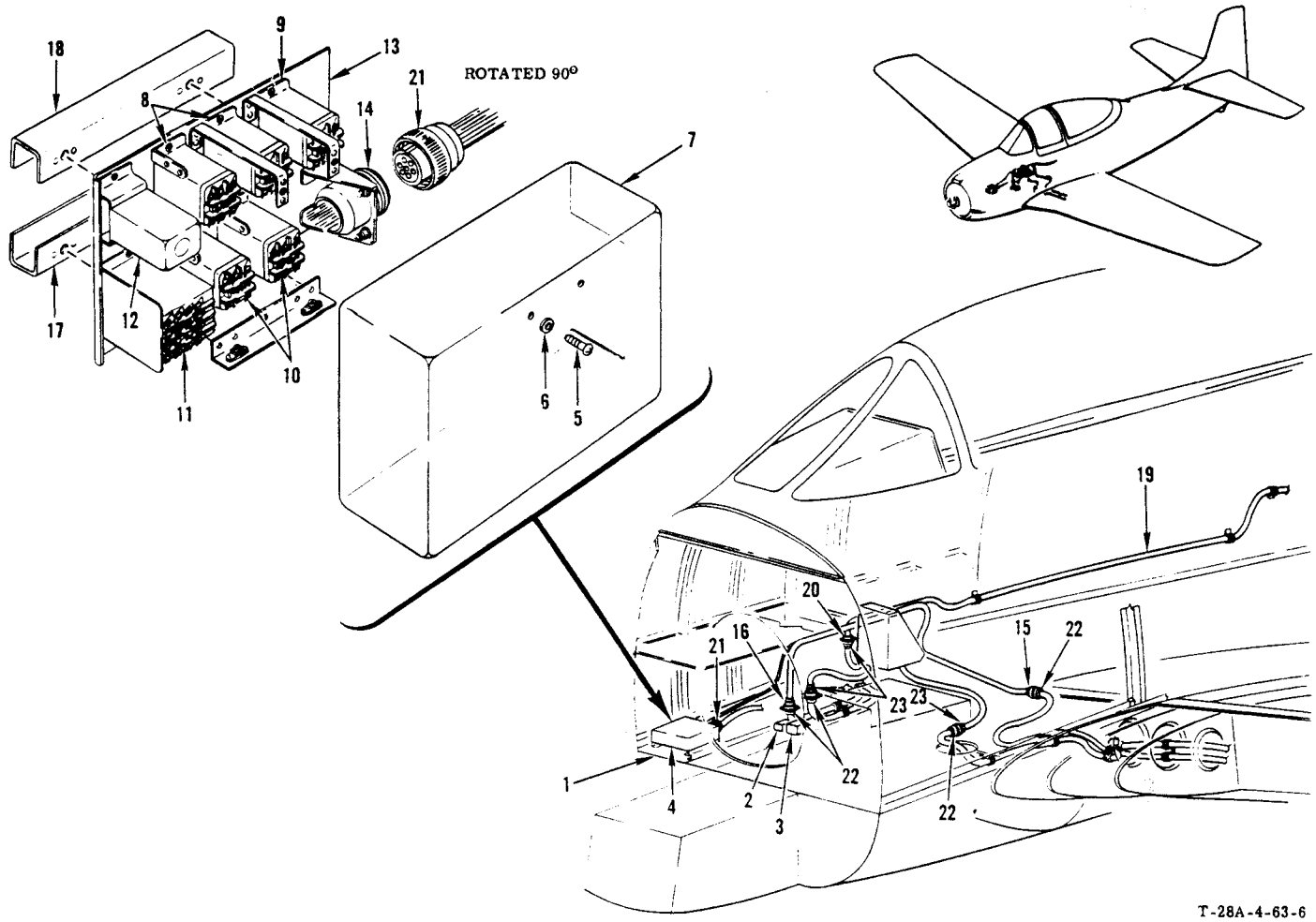

FIGURE 11C - FORWARD FUSELAGE STORES PROVISIONS ELECTRICAL EQUIPMENT INSTALLATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
11C	189-636001	ELECTRICAL EQUIPMENT INSTALLATION, Fwd fus stores provisions (see fig. 5 for next assy)	NP	
-1	189-311073	. WEB, Fus sta 49.50 to 80.44 horiz lower shelf RH (mod)	1	
-2	MS24149D1	. RELAY	1	
-3	MS25024-2	. RELAY	1	
-4	189-636011	. PANEL Missile relay, assy of	1	
-5	AN515-8R8	. . SCREW	4	
-6	2W18-8L	. . WASHER, (North American)	4	
-7	189-636015	. . COVER ASSY, Missile relay	1	
	189-636017	. . . DECAL, Missile relay panel	1	
-8	MS24149D1	. . RELAY (power int LH & RH)	2	
-9	MS24149D1	. . RELAY (missile fire control)	1	
-10	MS24149D1	. . RELAY (missile fire LH & RH)	2	
-11	MS25024-2	. . RELAY (missile jettison)	1	
	AN515-8R8	. . SCREW	12	
	2W18-8L	. . WASHER, (North American)	24	
	NAS679A08	. . NUT	12	
-12	1018-1	. . RELAY, (Autronics) (missile jettison T/D)	1	
	2W18-8L	. . WASHER, (North American)	3	
	NAS679A06	. . NUT	3	
-13	189-636011-3	. . PANEL, Missile relay	1	
	189-540114-51	. . WIRING DIAGRAM, Elec missile control	1	
-14	MS3103R28-11P	. . . CONNECTOR	1	
-15	MS3103R20-27P	. . . CONNECTOR (LH wing disc)	1	
-16	MS25183-18-1P	. . . CONNECTOR (RH wing disc)	1	
-17	189-636012-11	. CHANNEL, Missile relay panel mtg, assy of	1	
-18	189-636012-21	. CHANNEL, Missile relay panel mtg, assy of	1	
-19	189-540113-51	. WIRING DIAGRAM, Elec armament control	1	
-20	MS3102-28-11S	. . CONNECTOR	1	
-21	MS25183-28-11S	CONNECTOR, (see fig. 41)	Ref	
-22	For wing electrical plugs see figure 3A		Ref	
-23	For pedestal electrical plugs see figure 41		Ref	

FUSELAGE ELECTRICAL (CONT)

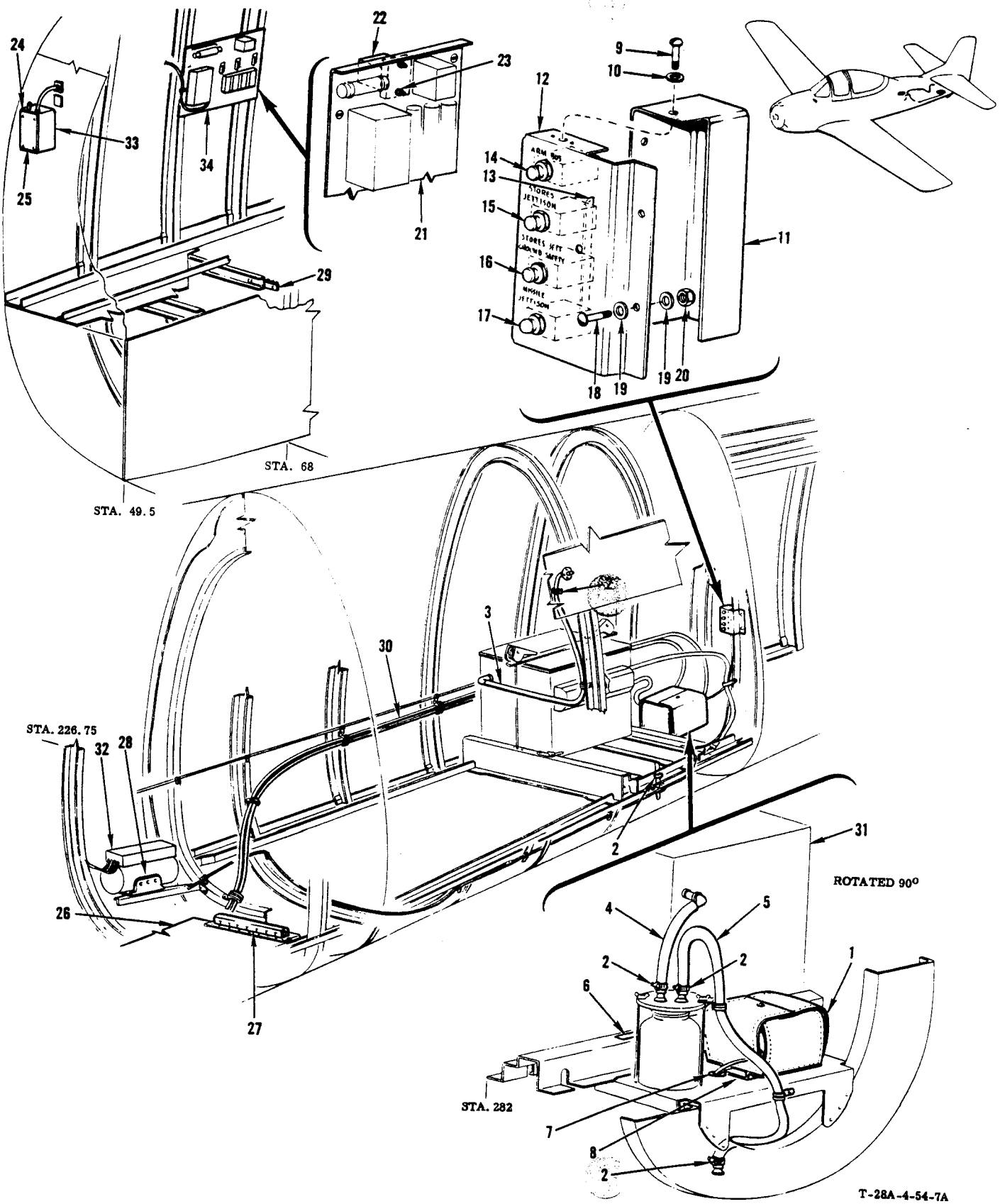

FIGURE 12 - ELECTRICAL EQUIPMENT INSTALLATION

FUSELAGE ELECTRICAL (CONT)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
12	189-540001	ELECTRICAL EQUIPMENT INSTALLATION, Battery and inverter routing (mod)	NP	
-1	171-54057	. COVER ASSY, Battery relay	1	
-2	AN737-26	. CLAMP	5	
-3	6T1-31 1/2	. TUBE, (North American)	1	
-4	6T1-6	. TUBE, (North American)	1	
-5	6T1-25	. TUBE, (North American)	1	
-6	200-54046-41	. DECAL	1	
-7	294189-12A	. GROMMET, (United-Carr)	1	
-8	189-540033	. BRACKET, Battery relay support, assy of	1	
	ATTACHING PARTS			
	AN3-3A	. BOLT	2	
	2W18-10L	. WASHER, (North American)	2	
		---*---		
	189-540123	. PANEL ASSY, Elec circuit breaker	1	
-9	AN515-8R5	. . SCREW	3	
-10	2W18-8L	. . WASHER, (North American)	3	
-11	189-540124-3	. . COVER, Elec circuit breaker panel, assy of	1	
-12	189-540124-11	. . PANEL, Elec circuit breaker	1	
-13	MS25226-4-5	. . BUS BAR	1	
-14	MP707H	. . CIRCUIT BREAKER, (35 amp) (Mechanical Products) (arm bus)	1	
-15	MP704H	. . CIRCUIT BREAKER, (15 amp) (Mechanical Products) (stores jettison)	1	
-16	MP701H	. . CIRCUIT BREAKER, (5 amp) (Mechanical Products) (stores jettison ground safety)	1	
-17	MP704H	. . CIRCUIT BREAKER, (15 amp) (Mechanical Products) (missile jettison)	1	
-18	AN520-10R8	. SCREW	3	
-19	2W18-10M	. WASHER, (North American)	6	
-20	AN365-1032	. NUT	3	
-21	189-540039	. PANEL ASSY, Magnetic chip detector (mod) (altered from 159-54091)	1	
-22	AN3314-1	. . RELAY,	1	
-23	AN515-8R10	. . SCREW	2	
	AN960-8	. . WASHER	2	
	NAS1291-8	. . NUT	2	
	189-540037	. WIRING DIAGRAM, Magnetic chip detector warning light (mod)	1	
	189-540015	. COVER ASSY, Elec induction vibrator	1	
-24	159-54138	. . COVER ASSY, Elec induction vibrator	1	
-25	189-540014	. . DECAL, Elec induction vibrator (mod)	1	
-26	189-313015	. DECK, Fus sta 177.75 to 238.87 lower, assy of	1	
	189-313016	. . BRACKET, Battery terminal strip fus sta 226.75, assy of	1	
-27	3T3-19-7	. . TERMINAL BLOCK ASSY, (North American)	1	
	399-7	. . COVER, Elec terminal block (Henry Engineering)	1	
-28	189-543620	. PLATE, Elec inverter mounting	1	
	ATTACHING PARTS			
	AN3-5A	. BOLT	2	
	AN365-1032	. NUT	2	
	AN507-1032R8	. SCREW	2	
		---*---		
	189-540034	. TERMINAL ASSY, Inverter relocation	1	
-29	AN3436-1-6	. . TERMINAL BLOCK ASSY	1	
	ATTACHING PARTS			
	AN515-4R6	. . SCREW	2	
	NAS679A04	. . NUT	2	
	2W18-4L	. . WASHER, (North American)	2	
		---*---		
	5S7-3-6-1-5	. . STRIP, (North American)	1	
	AN3434-2	. . STRIP	1	
	OP131L6	. . COVER, Terminal block (Olympic Plastics)	1	
-30	189-540031	. WIRING DIAGRAM, Fus sta 49.5 to 298.5	1	
-31	AN3150-2	BATTERY, (see figure 150, Section II)	Ref	
-32	AN3499-1	INVERTER, (see figure 151, Section II)	Ref	
-33	159-54135	BOX ASSY, Elec induction vibrator complete (see fig. 162, Section II)	Ref	
-34	159-54090	PANEL ASSY, Elec fwd equip. complete (see fig. 168, Section II).	Ref	

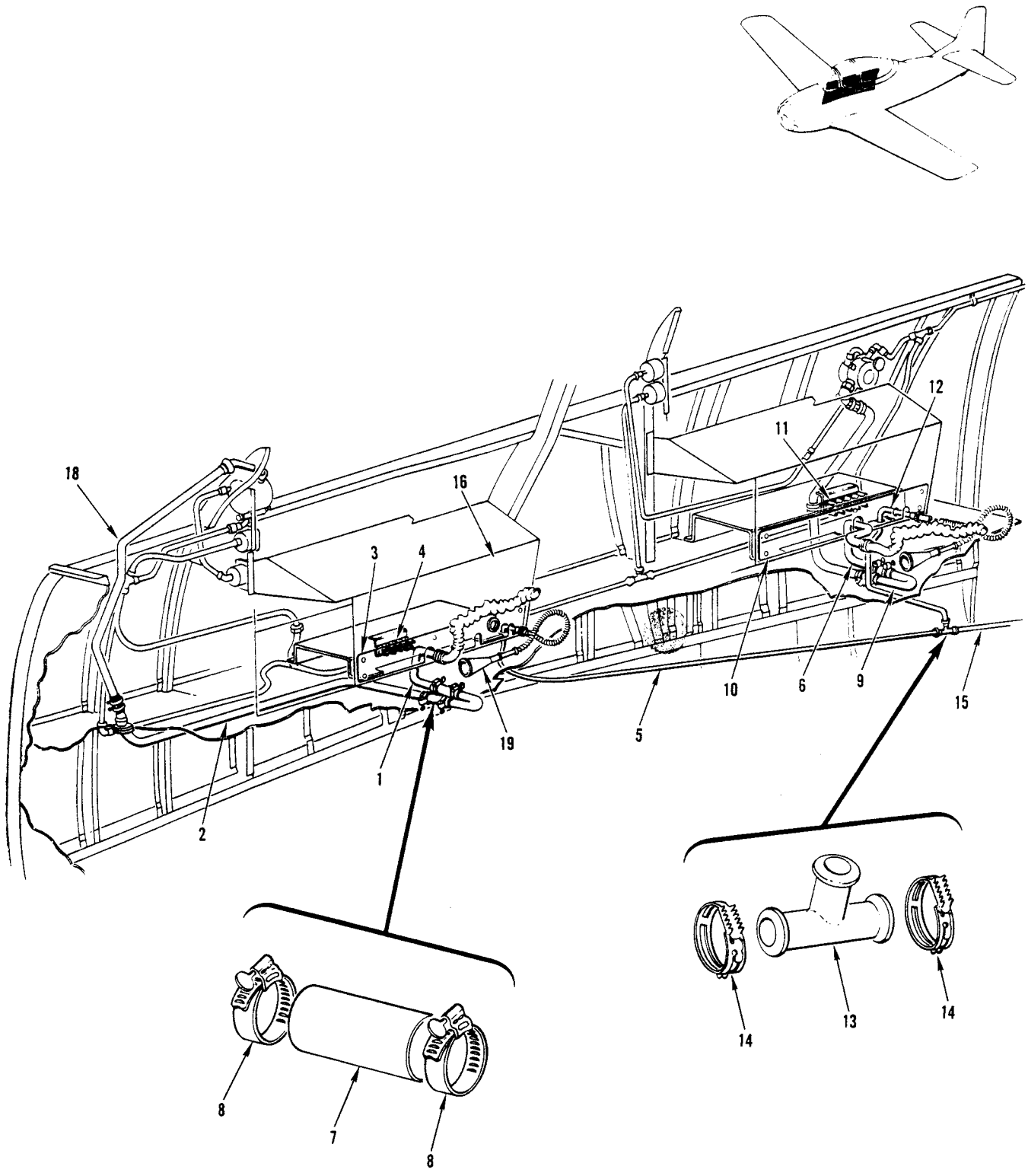

FIGURE 13 - FORWARD AND AFT OXYGEN AND RELIEF TUBE INSTALLATIONS (MOD)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
13			FORWARD AND AFT OXYGEN AND RELIEF TUBE INSTALLATIONS (MOD)		
	189-735025	.	OXYGEN INSTL, Forward cockpit, personal services (see figure 7 for next assy)	NP	
-1	189-733250-5	. .	LINE, Oxygen sys, forward interm breather to duct	1	
-2	189-733250-7	. .	LINE, Oxygen sys, duct to forward oxygen breather	1	
-3	219-31411-11	. .	COVER, Console fwd RH terminal panel, assy of	1	
	ATTACHING PARTS				
	NAS679A3	. .	NUT	6	
	2W18-10M	. .	WASHER, (North American)	6	
	AN520-10R8	. .	SCREW	6	
	---*---				
-4	189-710032	. .	TERMINAL ASSY, Radio headset cable	1	
-5	219-51802-9	. .	LINE, Pilot's service (relief) at sta 104.5 to front console	1	
	189-735026	.	OXYGEN INSTL, Aft cockpit, personal service (see figure 7 for next assy)	NP	
-6	219-73315	. .	LINE, Oxygen sys, duct to aft oxygen breather	1	
-7	200-73314	. .	DUCT, Oxygen breath line connector	1	
-8	AN737RM38	. .	CLAMP	2	
-9	219-73310-11	. .	LINE, Conn. aft regulator and breather lines	1	
-10	219-31412-11	. .	COVER, Console aft RH terminal panel, assy of	1	
	ATTACHING PARTS				
	NAS679A3	. .	NUT	6	
	2W18-10M	. .	WASHER, (North American)	6	
	AN520-10R8	. .	SCREW	6	
	---*---				
-11	189-71003E	. .	TERMINAL ASSY, Radio headset cable	1	
-12	219-51802-7	. .	LINE, Pilot's service (relief), tee at sta 155.218 to rear console	1	
-13	219-73314	. .	TEE	1	
-14	A3122-10-59	. .	CLAMP, Speed (Tinnerman)	3	
-15	159-53036-11		LINE, Pilot's relief sta 171 to exit fitting (see fig. 168, Section II)	Ref	
-16	159-314126		COVER ASSY, RH fwd console terminal panel closeout (see figure 58, Section II)	Ref	
-17	159-71097-10		PANEL ASSY, Radio console rear terminal (see fig. 180A, Section II)	Ref	
-18	159-73325-27		LINE ASSY, Fwd regulator to intermediate breather (see figure 189, Section II)	Ref	
-19	AN8018-1		HORN, (see fig. 186A, Section II)	Ref	

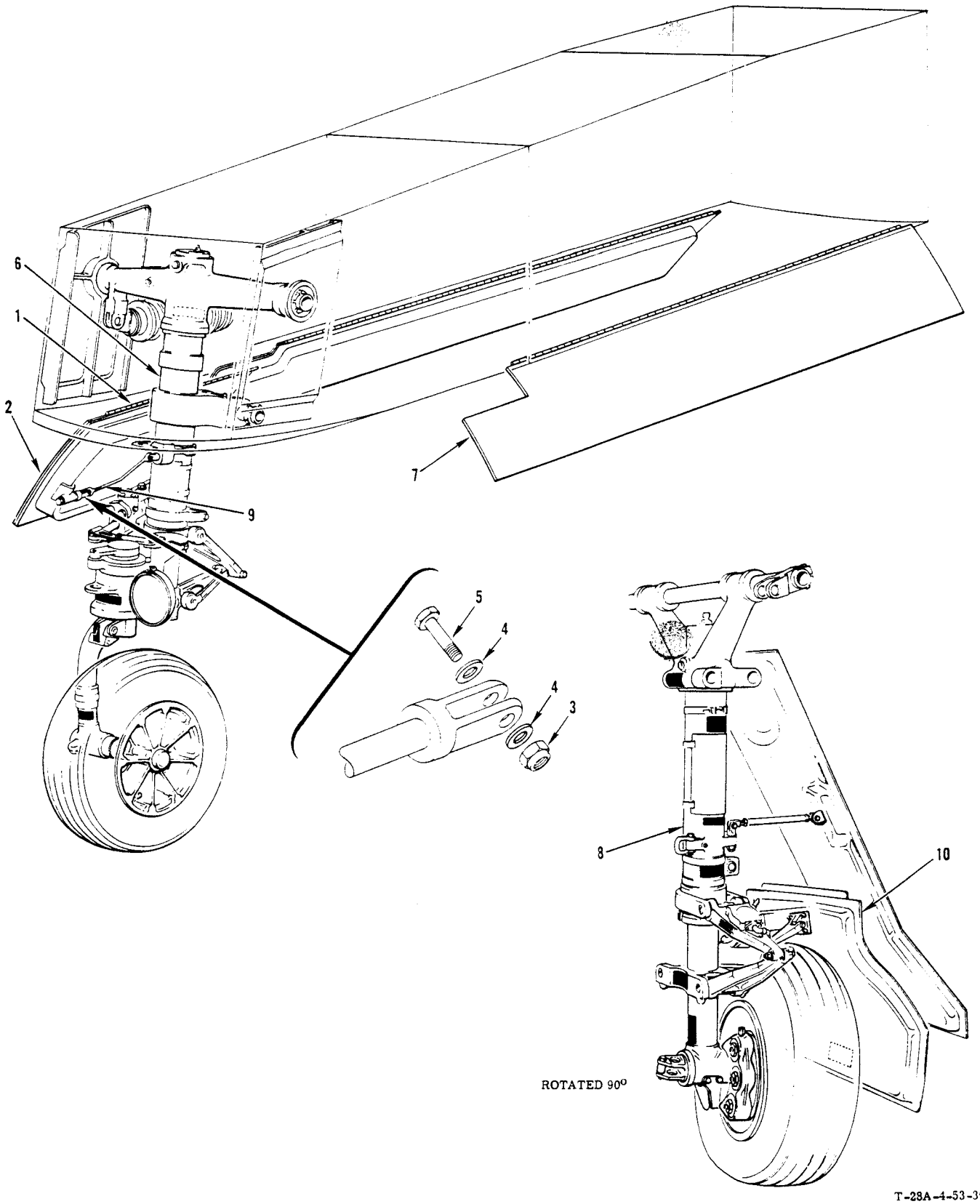

FIGURE 14 - MAIN AND AUXILIARY ALIGHTING GEAR INSTALLATION (MODIFICATION)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
14			MAIN AND AUXILIARY ALIGHTING GEAR INSTL (MOD)		
	189-340001		. AUXILIARY ALIGHTING GEAR INSTL	NP	
-1	200-34324		. . PIN, Aux alighting gear strut door hinge	1	
-2	200-34301		. . DOOR ASSY, Aux alighting gear strut	1	
-3	NAS679A3		. . NUT	2	
-4	2W18-10M		. . WASHER, (North American)	4	
-5	AN3-10A		. . BOLT	2	
-6	RA75400-80		. . STRUT ASSY, Aux gear shock (Axelson) (mod) (United Aircraft Dwg No. RA75400-80) (North American dwg No. 189-340010) (for a list of details refer to T.O. -S1-154)	1	
-7	200-34305-1	*1	. . DOOR, Aux alighting gear wheel LH, assy of	1	
	200-34305-2	*1	. . DOOR, Aux alighting gear wheel RH, assy of	1	
	189-330001-21		. GEAR ASSY, Landing main LH (mod)	1	
	189-330001-22		. GEAR ASSY, Landing main RH (mod)	1	
-8	R75450-21		. . STRUT ASSY, Main LG shock LH (Axelson) (North American dwg No. 189-330001-21) (for a list of detail parts refer to T. O. 4S1-154)	1	
	R75450-22		. . STRUT ASSY, Main LG shock RH (Axelson) (North American dwg No. 189-330001-22) (for a list of detail parts refer to T.O. 4S1-154)	1	
-9	159-34325		LINK ASSY, Aux alighting gear strut door (see figure 213, Section II)	Ref	
-10	159-33321-1		DOOR ASSY, Main alighting gear wheel fixed LH (see figure 200, Section II)	Ref	

*1 When 159-34305-1 LH and -2 RH doors (see fig. 212, Section II) are modified per mod dwg 189-343050-1 LH and -2 RH. They are reidentified as 200-34305-1 LH and 200-34305-2 RH doors.

POWER PLANT AND ENGINE SECTION

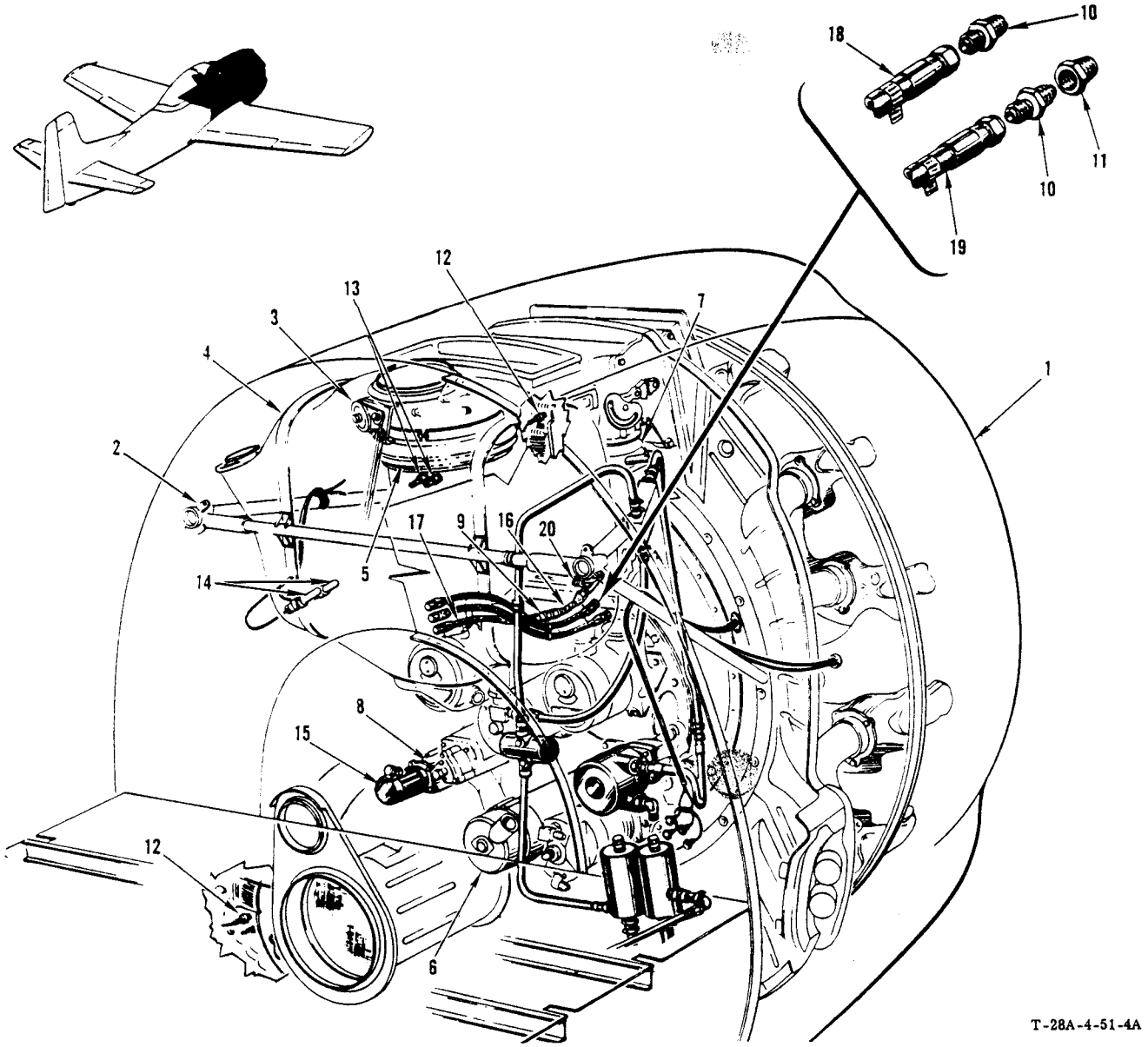

FIGURE 15 - COMPLETE POWER PLANT INSTALLATION (MOD)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
15	189-4400-[illegible]	POWER PLANT INSTL, Complete (mod)	NP	
-1	200-315-[illegible]	. COWLING INSTL, Engine (see figure 33 for breakdown)	NP	
-2	200-420-[illegible]	. ENGINE ACCESSORIES EQUIPMENT INSTL, (see figure 17 and 18 for breakdown)	NP	
-3	200-4304-[illegible]	. ENGINE CONTROL INSTL, Engine section (see fig. 21 for bkdn)	NP	
-4	189-4700-[illegible]	. OIL SYSTEM EQUIPMENT INSTL, Eng sect (see fig. 31 for bkdn)	NP	
-5	200-4802[illegible]	. ENGINE FUEL INSTL, Engine sect (see fig. 16 and 17 for bkdn)	NP	
-6	189-5400-[illegible]	. ENGINE ELECTRICAL INSTL, Eng sect (see fig. 33 for bkdn)	NP	
-7	200-4701[illegible]	. OIL BREATHER EQUIPMENT INSTL, Inverted flight eng (see fig. 30 for breakdown)	NP	
-8	200-510-[illegible]	. INSTRUMENT EQUIPMENT INSTL, Power plant	NP	
-9	189-51001[illegible]	. . SNUBBER, Fuel press (altered from Operating and Maint Specialties 11D2)	1	
-10	159-5101[illegible]	. . FITTING ASSY, Instrument restrictor	2	
-11	AN912-3	. . REDUCER	1	
-12	AN5541-1	. . BULB, Cylinder head temp (intrch wth AN5546-1)	2	
-13	AN5525-1	. . BULB, Carburetor air temp (intrch wth MS28034-1)	2	
-14	AN5525-2	. . BULB, Oil temp (intrch wth MS28034-2)	2	
-15	AN5547-2	. . GENERATOR, Tachometer	1	
-16	MS28741---0120	. . HOSE ASSY, (full press)	1	
-17	MS28741---0150	. . HOSE ASSY, (full press)	1	
-18	AN6264---33	. . HOSE ASSY, (manifold press)	1	
-19	AN6264---33	. . HOSE ASSY, (oil press)	1	
-20	159-47033	TEE, Fuel press and oil dilution restrictor (see fig. 31)	Ref	

POWER PLANT AND ENGINE SECTION (Cont)

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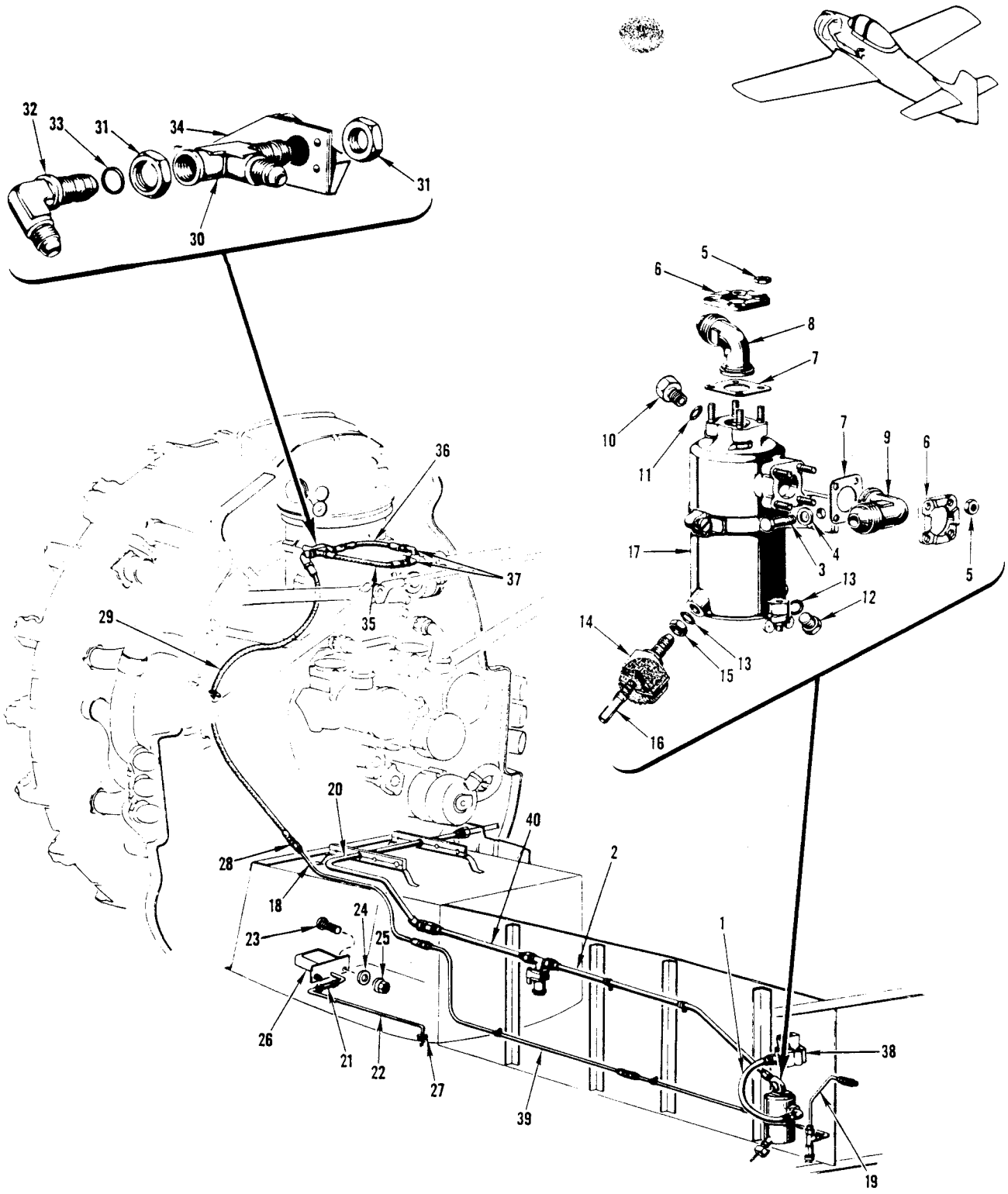

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FIGURE 16 - LH SIDE FUSELAGE AND POWER PLANT FUEL SYSTEM LINES AND EQUIPMENT

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
16		LH SIDE FUSELAGE AND POWER PLANT FUEL SYSTEM LINES AND EQUIPMENT		
	189-480031	. STRAINER INSTL, Fus fuel system (mod) (see figure 9 for next assembly)	NP	
-1	189-480801-5	. . LINE ASSY, Fuselage fuel shut-off valve to fuel strainer	1	
-2	189-480801-3	. . LINE ASSY, Wing center section No. 3 LH side	1	
-3	AN4-6A	. . BOLT	2	
-4	2W18-416	. . WASHER, (North American)	2	
-5	NAS679A3	. . NUT	8	
-6	AN756D16	. . FLANGE	2	
-7	4G2-16	. . GASKET, (North American)	2	
-8	AN761D12-16	. . ELBOW	1	
-9	AN762D12-16	. . ELBOW	1	
-10	AN814-3D	. . PLUG	1	
-11	MS29512-3	. . GASKET	1	
-12	AN814-4D	. . PLUG	1	
-13	MS29512-4	. . GASKET	2	
-14	7901-1	. . VALVE, Drain (Koehler)	1	
-15	AN924-4D	. . NUT	1	
-16	10C2B13-2	. . CONDUIT, (North American)	1	
-17	U959A	. . STRAINER ASSY, Fuel 150 to 280 GPH (United Aircraft)	1	
-18	189-480801-9	. . LINE ASSY, Carb. vapor return firewall to fwd union	1	
-19	189-480801-11	. . LINE ASSY, Carb. vapor return line section No. 3	1	
-20	199-48804	. . TUBE ASSY, Fuel engine feedline firewall to disconnect fitting	1	
	189-428001	. LINES INSTL, Engine drain mod (see fig. 9 for next assembly and additional breakdown)	NP	
-21	3H2L4-12	. . HOSE	1	
	A3122-10-1	. . CLAMP, (Tinnerman)	2	
-22	200-42801-19	. . TUBE, Engine exhaust drain	1	
-23	AN520-10R7	. . SCREW	2	
-24	2W18-10L	. . WASHER, (North American)	2	
-25	NAS679A3	. . NUT	2	
-26	200-42033-11	. . PAN ASSY, Engine exhaust	1	
-27	AN931-4-7	. . GROMMET	1	
	200-48002	. FUEL SYSTEM EQUIPMENT INSTL, Engine section (see figure 15 for next assy and additional breakdown)	NP	
-28	AN815-6	. . UNION	1	
-29	MS28741-6-0361	. . HOSE ASSEMBLY	1	
-30	AN784-6	. . TEE	1	
-31	AN924-6	. . NUT	2	
-32	AN833-6	. . ELBOW	1	
-33	MS29512-6	. . GASKET	1	
-34	200-48004	. . BRACKET ASSY, Fuel vapor return line support	1	
-35	MS28741-6-0091	. . HOSE ASSEMBLY	1	
-36	MS28741-6-0080	. . HOSE ASSEMBLY	1	
-37	AN822-6-2	. . ELBOW	2	
-38	1218A	VALVE ASSY, Fuel selector type "G" (Hydro-Aire) (see figure 90, Section II)	Ref	
-39	159-48801-23	LINE ASSY, Carburetor vapor return union to firewall (see figure 90, Section II)	Ref	
-40	159-48801-13	LINE ASSY, Main fuel union to firewall (see fig 90, Section II)	Ref	

POWER PLANT AND ENGINE SECTION (Cont)

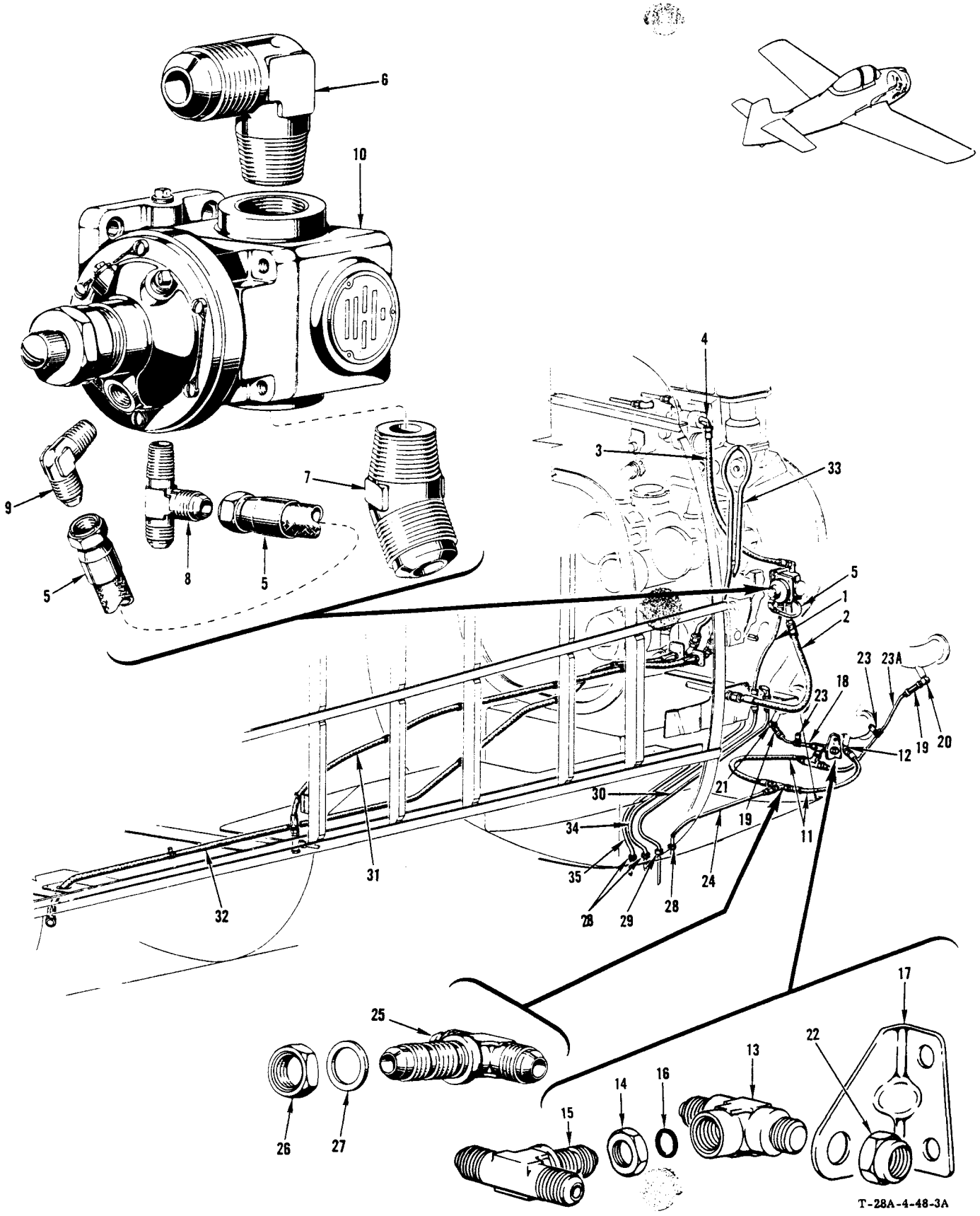

FIGURE 17 - RH SIDE FUSELAGE AND POWER PLANT FUEL SYSTEM LINES AND EQUIPMENT

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
17		RH SIDE FUSELAGE AND POWER PLANT FUEL SYSTEM LINES AND EQUIPMENT		
	200-48002	. FUEL SYSTEM EQUIPMENT INSTL, Engine section, (see figure 15 for next assembly and additional breakdown)	NP	
-1	MS28741-4-0116	. . HOSE ASSEMBLY	1	
-2	MS28741-12-0204	. . HOSE ASSEMBLY	1	
-3	SF111-312-649-12D0220	. . HOSE ASSEMBLY, (Stratoflex) (intrch wth MS28741-12-0206)	1	
-4	AN816-1Q	. . ELBOW	1	
-5	MS28741-4-0190	. . HOSE ASSEMBLY	1	
-6	AN822-12	. . ELBOW	1	
-7	AN823-12	. . ELBOW	1	
-8	AN826-4	. . TEE	1	
-9	159-48085	. . FITTING ASSEMBLY, .070R restricted G6 fuel pump	1	
-10	AN4101-1	. . PUMP, (intrch wth AN4101)	1	
	200-42040	. ENGINE ACCESSORIES EQUIPMENT INSTL, (see figure 15 for next assembly and additional breakdown)	NP	
-11	601000-4-12	. . HOSE ASSEMBLY, (Aeroquip) (supersedes Titeflex S3478-1200 for future procurement)	2	
-12	200-42031	. . FITTING, Engine intake drain restrictor	1	
-13	189-428004	. . TEE, Eng. intake drain, assy of	1	
-14	AN924-4	. . NUT	1	
-15	AN834-4	. . TEE	1	
-16	MS29512-4	. . GASKET	1	
-17	200-42045-3	. . CLIP, Engine intake tee (supersedes 200-42028 for future procurement)	1	
	AN363-524	. . NUT	1	
-18	189-480801-15	. . LINE ASSEMBLY, Engine intake tube drain cylinder #6	1	
-19	189-428005-3	. . HOSE, Engine intake drain	2	
	AN737RM24	. . CLAMP	4	
-20	200-42030	. . FITTING, Engine intake drain restrictor	1	
-21	226-42058	. . FITTING, Engine intake drain restrictor	1	
-22	NAS679A7	. . NUT	1	
-23	200-42029	. . CLIP, Engine intake drain tube to exhaust	2	
-23A	189-480801-13	. . LINE ASSY, Eng. intake tube drain cylinder #4	1	
	189-428001	. LINES INSTL, Engine drain (see figure 9 for next assembly and additional breakdown)	NP	
-24	189-428003	. . TUBE, Engine intake drain outlet, assy of (mod)	1	
-25	AN804-4	. . TEE	1	
-26	AN924-4	. . NUT	1	
-27	2W13-716M	. . WASHER, (North American)	1	
-28	AN931-4-7	. . GROMMET	3	
-29	AN931-6-10	. . GROMMET	1	
-30	159-48801-13	LINE ASSY, Supercharger drain (see figure 90, Section II)	Ref	
-31	950171-16-43-1/2	HOSE ASSY, (Aeroquip) (see figure 92, Section II)	Ref	
-32	950172-16-8-1/4	HOSE ASSY, (aeroquip) (see figure 92, Section II)	Ref	
-33	174-48151	TUBE ASSY, Fus fuel sump tank vent standpipe (see figure 92, Section II)	Ref	
-34	159-48801-34	LINE ASSY, Engine driven fuel pump drain (see figure 90, Section II)	Ref	
-35	159-58807-31	LINE ASSY, Eng. pump drain elbow to bottom shear web, RH side (see figure 2-9, Section II)	Ref	

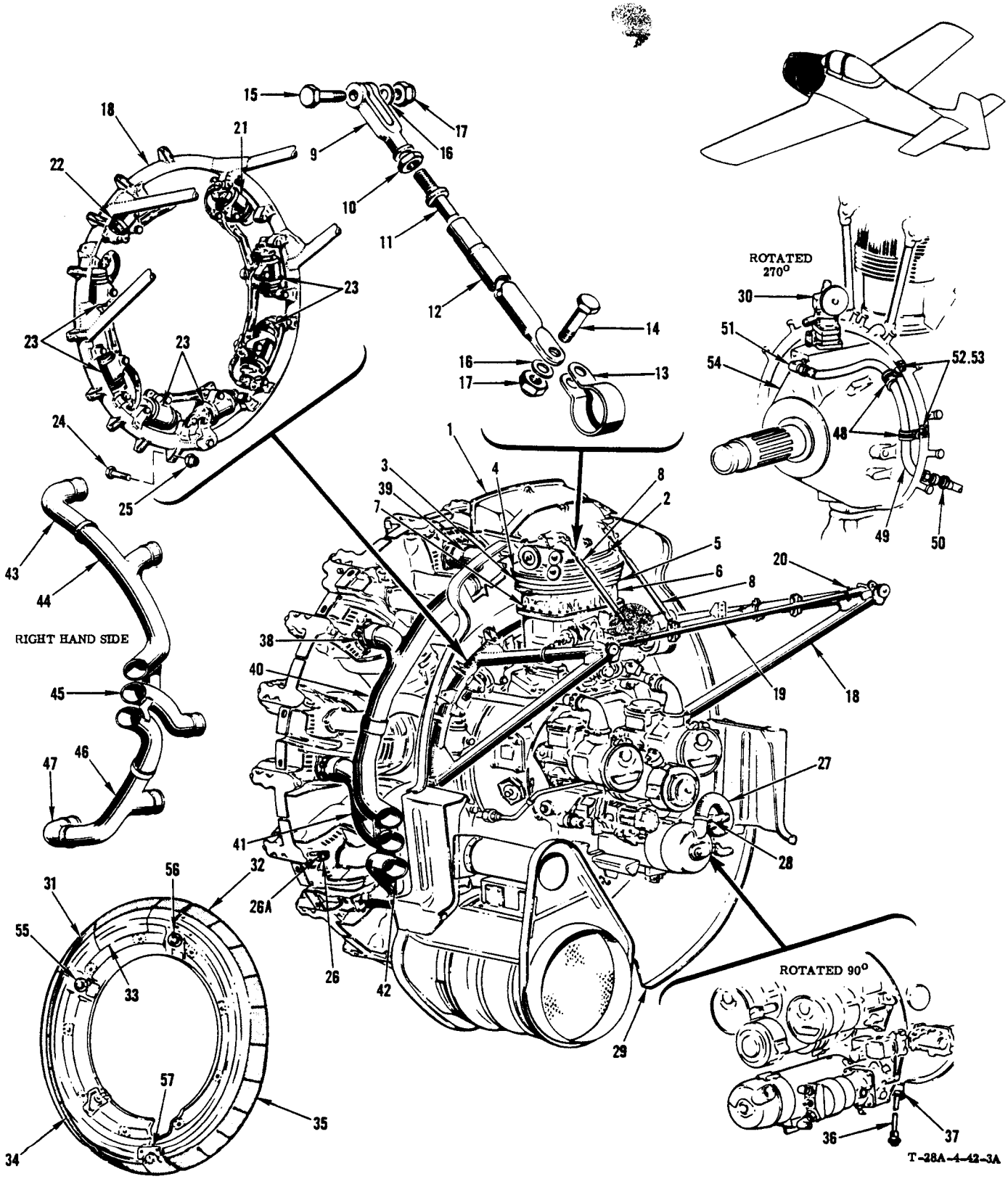

FIGURE 18 - ENGINE ACCESSORIES EQUIPMENT INSTALLATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
18	200-42040	ENGINE ACCESSORIES EQUIPMENT INSTALLATION (see figure 15 for next assembly)	NP	
-1	200-42010	VALVE ASSEMBLY, Carburetor air mixing (see figure 20 for breakdown and attaching parts)	1	

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
18-2	17162-10		CLAMP, (Marman)	1	
	17162-12		CLAMP, (Marman)	1	
-3	200-42008		DUCT ASSEMBLY, Carburetor air flexible	1	
-4	200-42024		RING, Carburetor air flexible joint	1	
-5	17161-10		CLAMP, (Marman)	1	
	17161-12		CLAMP, (Marman)	1	
-6	200-42044		ADAPTER, Carburetor air flexible joint to carburetor attaching flange	1	
-7	AN75-7		BOLT	8	
	AN75-10		BOLT(aft LH corner)	2	
	2W18-516L		WASHER, (North American)	10	
-8	200-42032		ROD ASSEMBLY, Carburetor mixing valve support	2	
-9	AN486-1		. ROD END	1	
-10	AN316-4		. NUT	1	
-11	1R11-8-35-428		. ROD END, (North American)	1	
-12	200-42032-3		. TUBE, Carburetor mixing valve support rod assembly	1	
-13	200-42034		CLIP, Carburetor mixing valve support	2	
-14	AN4-6A		BOLT	2	
-15	AN4-10A		BOLT	2	
-16	2W18-416L		WASHER, (North American)	4	
-17	AN365-428		NUT	4	
-18	200-31901		MOUNT ASSEMBLY, Engine	1	
-19	159-47106		. SUPPORT ASSEMBLY, Oil tank rear	1	
-20	AN4-13A		. BOLT	2	
	AN960-416		. WASHER	4	
	AN365-428		. NUT	2	
-21	RC27F-SA1		MOUNT ASSEMBLY,(Lord) (RH upper)	1	
-22	RC27F-SA3		MOUNT ASSEMBLY,(Lord) (LH upper)	1	
-23	RC27F-SA2		MOUNT ASSEMBLY,(Lord)	3	
-24	AN4-4A		BOLT	17	
-25	AN365-428		NUT	17	
-26	200-31515T-3		RECEPTACLE, Eng LH side cowl stay rod (on cyl No. 7 LH side)	1	
	200-31515S-3		RECEPTACLE, Eng RH side cowl stay rod (on cyl No. 3 RH side)	1	
	AN363-524		NUT (inbd stud)	2	
-26A	R6A74177-1		PICKUP, Vibration (GFAE) (install on outbd stud)	9	
	2W18-516		WASHER, (North American) (at cylinder #3, 5, 7, & 9)	4	
	-B21S5-008		BUSHING, (North American) (at cylinder # 1, 2, 4, 6, & 8)	5	
-27	200-42056		TUBE, Generator blast	1	
-28	AN737-74		CLAMP	2	
-29	200-31547		COWLING ASSEMBLY, Engine fixed (see figure 19 for breakdown)	1	
-30	-G10-3		GOVERNOR, (Hamilton Standard)	1	
	200-42103-611		SEAL ASSEMBLY, Engine accessory compartment air upper	1	
-31	200-42103-31		. SEAL, Engine accessory compartment air upper seal assembly (upper LH)	1	
-32	200-42103-29		. SEAL, Engine accessory compartment air upper seal assembly (upper RH)	1	
-33	200-42109		DOOR ASSEMBLY, Engine accessory compartment air upper seal	1	
	200-42109-7		. SEAL, Engine accessory compartment air upper seal door assembly (upper center)	1	
	200-42104-101		SEAL ASSEMBLY, Engine accessory compartment air LH side	1	
-34	200-42104-15		. SEAL, Engine accessory compartment air LH side seal assembly	1	
	200-42105-101		SEAL ASSEMBLY, Engine accessory air RH side	1	
-35	200-42105-17		. SEAL, Engine accessory compartment air RH side seal assembly	1	
-36	MS28741-6-0120		HOSE ASSEMBLY	1	
-37	AN822-6		ELBOW	1	
-38	432195	*1	CLAMP, (Wright Aeronautical)	9	
	63D25	*1	BOLT, (Wright Aeronautical)	9	
	6085D5	*1	NUT, (Wright Aeronautical)	9	
	6617-1		STACK ASSEMBLY, Exhaust LH (Solar)	1	
-39	6617-3		. SECTION ASSEMBLY, Port 1 (Solar)	1	
-40	6617-7		. SECTION ASSEMBLY, Port 9 (Solar)	1	
-41	6617-12		. SECTION ASSEMBLY, Port 8 (Solar)	1	
-42	6617-26		. SECTION ASSEMBLY, Port 7 (Solar)	1	
	6617-2		STACK ASSEMBLY, Exhaust RH (Solar)	1	
-43	6617-34		. SECTION ASSEMBLY, Port 2 (Solar)	1	
-44	6617-38		. SECTION ASSEMBLY, Port 3 (Solar)	1	
-45	6617-46		. SECTION ASSEMBLY, Port 4 (Solar)	1	
-46	6617-61		. SECTION ASSEMBLY, Port 5 (Solar)	1	
-47	6617-65		. SECTION ASSEMBLY, Port 6 (Solar)	1	
-48	754-10-2-8		CLAMP, (Adel)	2	
-49	498D4		SCREW, (Pacific Airmotive)	2	
-49	2196D21		HOSE ASSY, (Pacific Airmotive)	1	
-50	1040		CONNECTOR, (Pacific Airmotive)	1	
-51	MS20822-6		FITTING	1	
-52	1038		SCREW, (Pacific Airmotive)	2	
-53	1039		BRACKET, (Pacific Airmotive)	2	
-54	R1820-56S		ENGINE, (Pacific Airmotive)	1	
	RHB37N		SPARK PLUG, (Champion)	18	
-55	200-42100		SEAL, Engine accessory compartment air seal magneto cable	2	
-56	200-42108		PLATE, Eng accessory compartment air oil scavenge line seal	1	
	200-42107		SEAL, Engine accessory compartment air oil scavenge line	1	

*1 Parts marked thus, are interchangeable with Wright Aeronautical 420213 clamp together with 63D67 bolt and MS21043-5 nut.

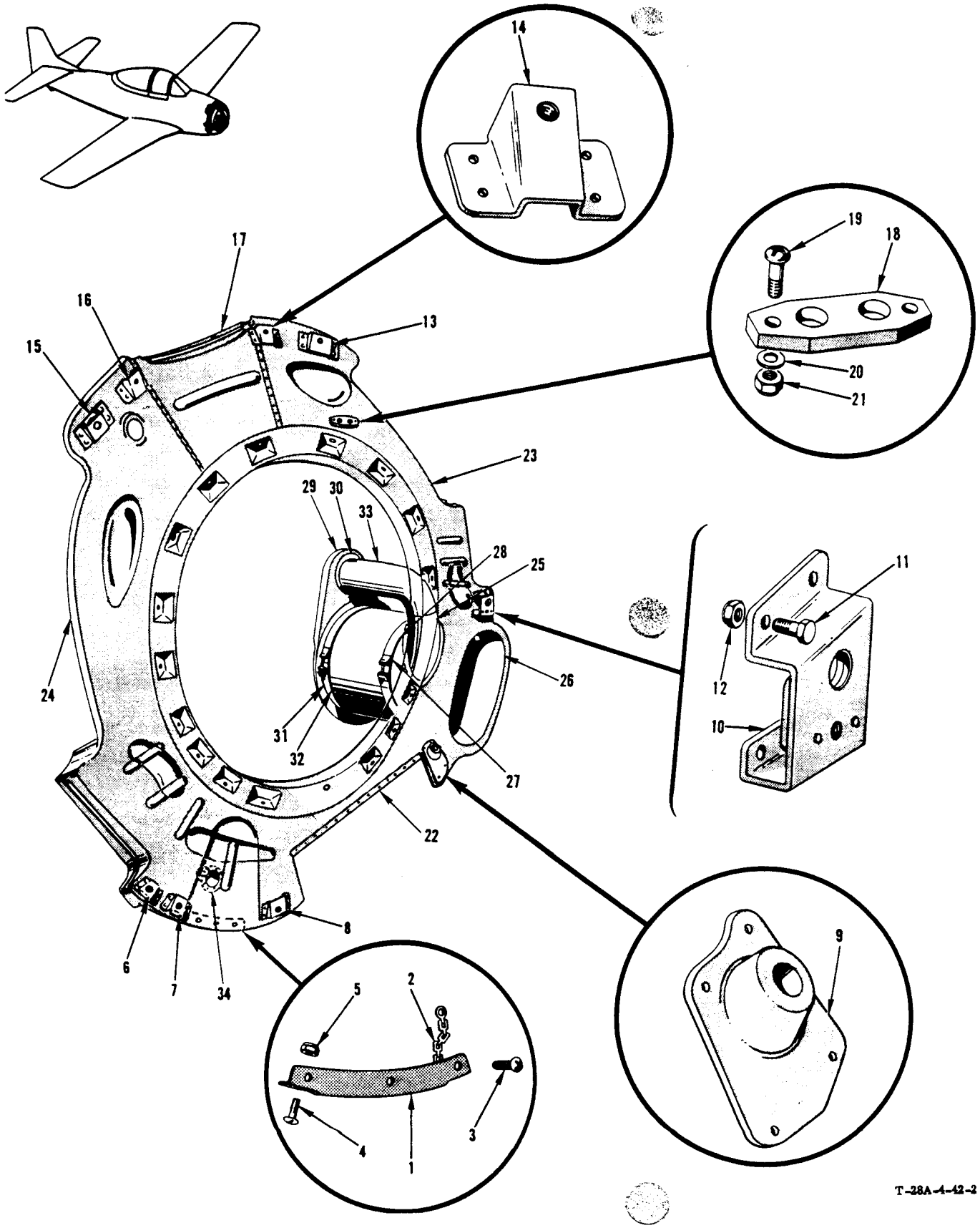

FIGURE 19 - ENGINE FIXED COWLING ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
19	200-31547	COWLING ASSEMBLY, Engine fixed (see fig. 18 for next assy) . . .	Ref	
-1	200-31524	. ANGLE ASSEMBLY, Engine fixed cowl alighting gear bolt removal.	1	
-2	9C1-2-5	. . CHAIN, (North American).	1	
-3	AN520-10R7	. SCREW	3	
-4	AN509-10R6	. SCREW	2	
-5	AN365-1032	. NUT	2	
-6	200-31513	. CLIP ASSEMBLY, Engine fixed cowl RH side cowl lower shear pin.	1	
-7	200-31515	. CLIP ASSEMBLY, Engine fixed cowl lower RH cowl upper shear. . pin	1	
-8	200-31516	. CLIP ASSEMBLY, Engine fixed cowl lower RH cowl lower shear. . pin	1	
-9	200-31525-5	. FITTING ASSEMBLY, Engine fixed cowl lower LH cowl lower . . . shear pin	1	
	159-315420-3	. . BUSHING, Engine cowling firewall support	1	
-10	200-31512	. CLIP ASSEMBLY, Engine fixed cowl LH side Cowl lower shear pin	1	
-11	AN3-4A	. BOLT.	4	
-12	AN363-1032	. NUT	4	
-13	200-31511-1	. CLIP ASSEMBLY, Engine fixed cowl side cowl upper shear pin. . LH	1	
-14	200-31510-1	. CLIP ASSEMBLY, Engine fixed cowl upper cowl attaching LH. . .	1	
-15	200-31511-2	. CLIP ASSEMBLY, Engine fixed cowl side cowl upper shear pin. . RH	1	
-16	200-31510-2	. CLIP ASSEMBLY, Engine fixed cowl upper cowl attaching RH. . .	1	
-17	200-31517	. SHIELD ASSEMBLY, Engine fixed cowl carburetor flex joint. . .	1	
-18	200-43066	. FAIRLEAD, Engine fixed cowl control cable	1	
-19	AN515-8R10	. SCREW	2	
-20	2W18-8L	. WASHER, Flat (North American)	2	
-21	AN365-832	. NUT	2	
-22	200-31527	. STRIP ASSEMBLY, Engine fixed cowl rubbing	1	
	159-31559	. . STRIP, Engine fixed cowl rubbing	1	
-23	200-31520-1	. PANEL ASSEMBLY, Engine fixed cowl side.	1	
-24	200-31520-3	. PANEL ASSEMBLY, Engine fixed cowl side.	1	
	200-31547-3	. COWLING SUBASSEMBLY, Engine fixed	1	
-25	200-47153	. . DUCT ASSEMBLY, Oil cooler heat and vent connection fwd . .	1	
-26	200-47147	. . DUCT ASSEMBLY, Oil cooler forward air.	1	
-27	200-47147-7	. . . SEAL, Oil cooler fwd air duct assembly (altered from. . North American 7E13-23)	1	
-28	17137-20	. . . STRAP AND PAD ASSEMBLY (MAR).	1	
	200-31547-5	. COWLING SUBASSEMBLY, Engine fixed	1	
-29	200-47143	. . FRAME ASSEMBLY, Oil cooler and heat and vent air duct. . . seal	1	
-30	200-53403	. . . SEAL, Heat and vent system air duct compression joint .	1	
-31	200-47094	. . . SEAL, Oil cooler air duct aft joint	1	
-32	17137-22	. . . STRAP AND PAD ASSEMBLY, (Marman).	1	
	200-47143-3	. . . SEAL, Oil cooler and heat and vent air duct seal frame. assy (altered from North American 7E13-23)	1	
-33	200-53415	. . DUCT ASSEMBLY, Heat and vent system air entrance Oil . . . cooler attaching	1	
-34	200-42063	. DUCT ASSEMBLY, Engine generator cooling air aft	1	

POWER PLANT AND ENGINE SECTION (Cont)

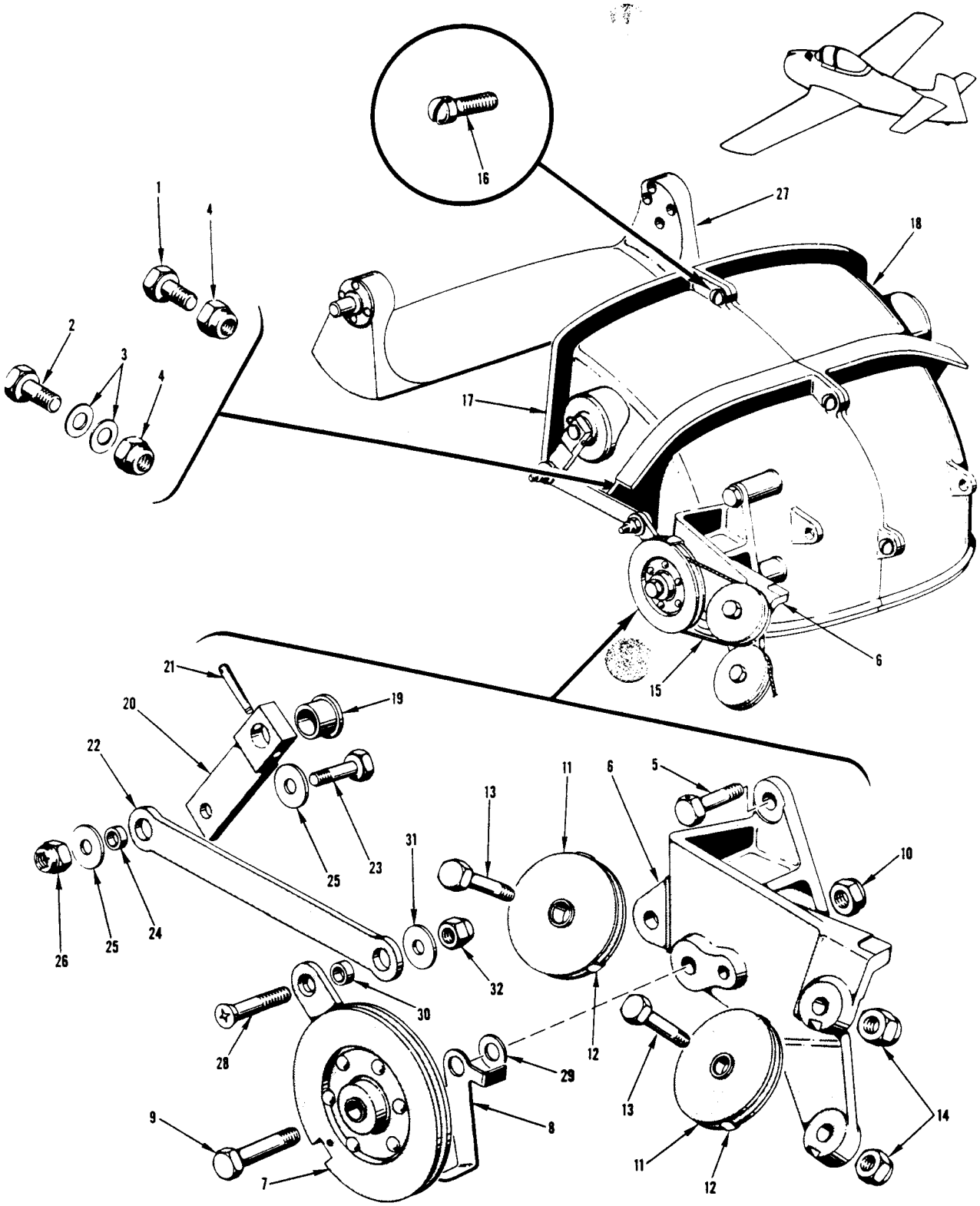

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FIGURE 20 - CARBURETOR AIR MIXING VALVE ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
20	200-42010	VALVE ASSEMBLY, Carburetor air mixing (see fig. 18 for next next assy)	Ref	
		ATTACHING PARTS		
-1	AN4-5A	BOLT, (inboard)	2	
-2	AN4-6A	BOLT	2	
-3	2W18-416L	WASHER, (North American) (outboard)	4	
-4	AN365-428	NUT	2	
		---*---		
-5	AN4H4A	. BOLT	3	
-6	200-43011	. BRACKET, Engine carburetor air control upper idler pulley	1	
-7	200-43014	. PULLEY ASSEMBLY, Engine carburetor air control upper drive	1	
	AN218P4	. . BEARING	1	
	200-43015	. . PULLEY, Engine carburetor air control upper drive	1	
	200-43016	. . ARM, Engine carburetor air control drive pulley	1	
-8	200-43020	. GUARD, Engine carburetor air control upper drive pulley	1	
-9	AN4-14A	. BOLT	1	
-10	AN365-428	. NUT	1	
-11	AN219-2	. PULLEY	2	
-12	200-43010	. GUARD, Engine carburetor air control upper idler pulley	2	
-13	AN4-12A	. BOLT	2	
-14	AN365-428	. NUT	2	
-15	200-43079	. CABLE ASSEMBLY, Engine carburetor air control forward	1	
	AN669S2LH	. . TERMINAL	2	
	159-43072	. . STOP, 1/16 control cable	1	
	200-42010-5	. VALVE SUBASSEMBLY, Carburetor air mixing	1	
-16	AN501A416-8	. . SCREW	5	
-17	200-42010-3	. . BODY ASSEMBLY, Carburetor air mixing valve (make from 200-42146-1)	1	
-18	200-42010-4	. . BODY ASSEMBLY, Carburetor air mixing valve (make from 200-42146-2)	1	
	200-42146-1	. . . BODY ASSEMBLY, Carburetor air mixing valve. (die-casting)	1	
	200-42146-2	. . . BODY ASSEMBLY, Carburetor air mixing valve. (die-casting)	1	
	2191-4CN x 1/4	. . . . INSERT, (Heli-Coil) (used on 200-42146-1)	3	
	2191-4CN x 1/4	. . . . INSERT, (Heli-Coil) (used on 200-42146-2)	5	
-19	200-42043	. . BUSHING, Carburetor mixing valve shaft	1	
-20	200-43017	. . ARM, Engine carburetor air control valve	1	
-21	AN385-30P6	. . PIN	1	
-22	200-43018	. . LINK, Engine carburetor air control pulley to arm	1	
-23	AN3-5A	. . BOLT	1	
-24	4B21S3-005	. . BUSHING, (North American)	1	
-25	2W1-13-20-5C	. . WASHER, (North American)	2	
-26	AN365-1032	. . NUT	1	
-27	200-42036	. . GATE ASSEMBLY, Carburetor air mixing valve	1	
	200-42036-3	. . . GATE, Carburetor air mixing valve gate assembly (make from 200-42035)	1	
	200-42041	. . . SHAFT, Carburetor mixing valve RH	1	
	200-42042	. . . SHAFT, Carburetor mixing valve LH	1	
-28	AN509-10R11	. SCREW	1	
-29	2W1AL17-16-32	. WASHER, (North American)	AR	
-30	4B21S3-005	. BUSHING, (North American)	1	
-31	2W1-13-20-5C	. WASHER, (North American)	1	
-32	AN365-1032	. NUT	1	

POWER PLANT AND ENGINE SECTION (Cont)

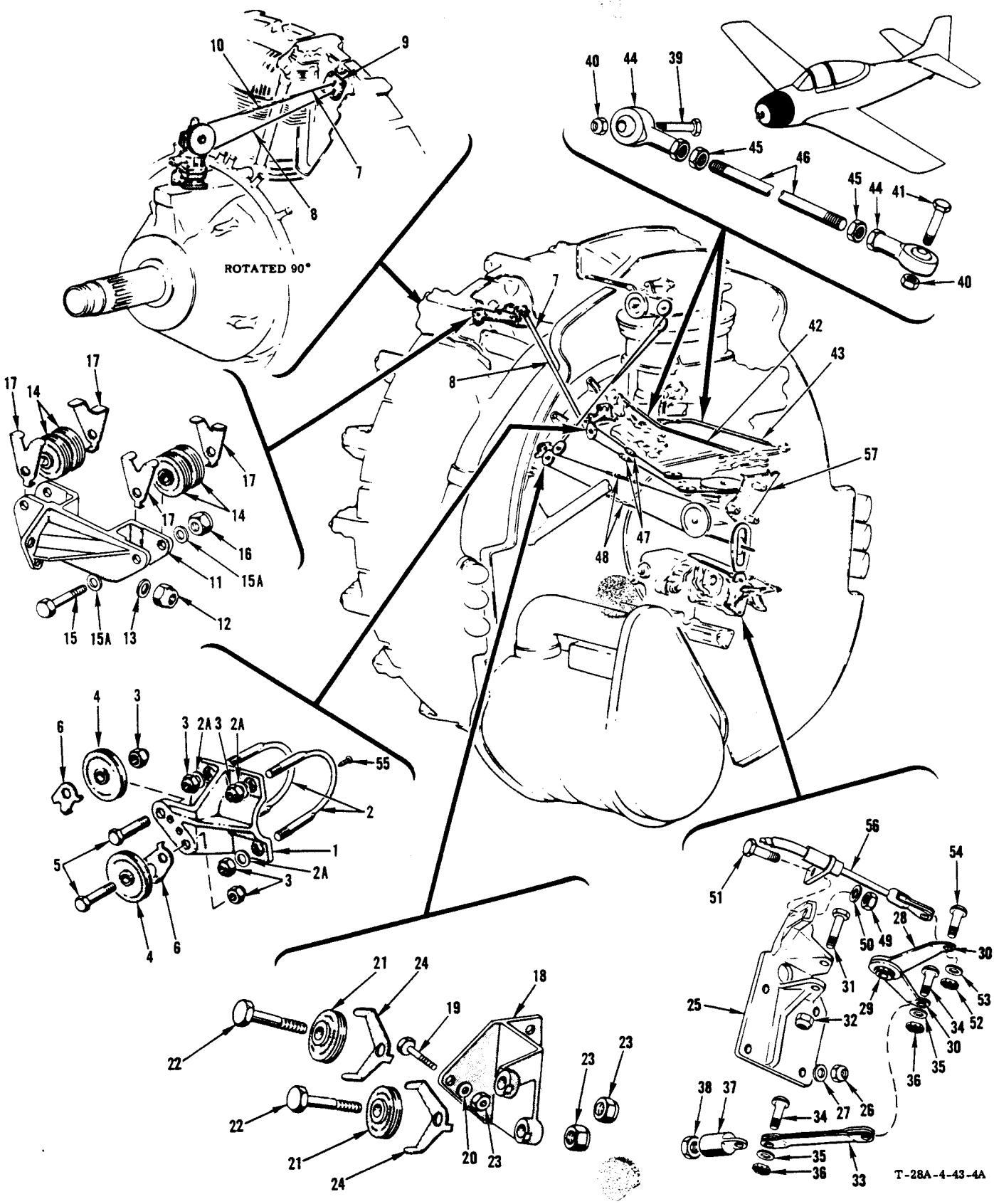


FIGURE 21 - ENGINE SECTION ENGINE CONTROL EQUIPMENT INSTALLATION

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
21		ENGINE SECTION ENGINE CONTROL EQUIPMENT INSTALLATION		
	200-43040	. ENGINE CONTROL EQUIPMENT INSTALLATION, Engine section (see fig. 15 for next assembly)	NP	
-1	200-43062	. . BRACKET, Engine prop. control intermediate idler	1	
-2	5B6-24	. . BOLT, "U" retainer (North American)	2	
-2A	2W18-416M	. . WASHER, (North American)	4	
-3	AN365-428	. . NUT	6	
-4	AN219-2	. . PULLEY	2	
-5	AN4-11A	. . BOLT	2	
-6	200-43063	. . GUARD, Engine propeller governor control intermediate idler	2	
-7	200-43048	. . CABLE ASSY, Engine control propeller control intermediate.	1	
-8	200-43049	. . CABLE ASSY, Engine propeller governor control forward	1	
-9	200-43071	. . FAIRLEAD, Engine propeller governor control intercylinder. baffle	1	
	AN515-6R8	. . SCREW	4	
	2W18-6L	. . WASHER, Flat (North American)	4	
	AN365-632	. . NUT	4	
-10	AN155-16S	. . BARREL	1	
-11	200-43064-3	. . BRACKET, Engine propeller governor control forward idler	1	
-12	H10-524	. . NUT, (Kaynar) (inbd attach)	1	
-13	2W18-516M	. . WASHER, Flat (North American) (inbd attach)	1	
-14	AN219-2	. . PULLEY	4	
-15	AN4-16A	. . BOLT	2	
-15A	2W18-416	. . WASHER, (North American)	4	
-16	AN365-428	. . NUT	2	
-17	200-43065	. . GUARD, Engine propeller governor idler pulley	4	
-18	200-43012	. . BRACKET, Engine carburetor air lower idler	1	
-19	AN4-6A	. . BOLT	3	
-20	2W18-416	. . WASHER, Flat (North American)	3	
-21	AN219-2	. . PULLEY	2	
-22	AN4-12A	. . BOLT	2	
-23	AN365-428	. . NUT	5	
-24	200-43013	. . GUARD, Engine carburetor air control lower idler pulley	2	
-25	200-43054	. . BRACKET, Engine supercharger control engine bellcrank support	1	
-26	AN365-428	. . NUT	4	
-27	2W18-416	. . WASHER, Flat (North American)	3	
	2W18-416M	. . WASHER, Flat (North American)	1	
-28	200-43059	. . BELLCRANK ASSEMBLY, Engine supercharger control engine	1	
-29	AN218P4	. . . BEARING	1	
-30	4B19S3-004	. . . BUSHING, Press fit plain (North American)	2	
-31	AN4-3A	. . BOLT	1	
-32	AN365-428	. . NUT	1	
-33	200-43060	. . ROD ASSEMBLY, Engine supercharger control bracket to engine	1	
-34	AN23-9	. . BOLT	2	
-35	2W18-10L	. . WASHER	4	
-36	AN320-3	. . NUT	2	
-37	142-43071	. . LINE, Supercharger control cable to engine connecting	1	
-38	AN316-5R	. . NUT	1	
	200-43037	. ENGINE CONTROL EQUIPMENT INSTALLATION, Fus to eng. section	NP	
-39	AN4-11A	. . BOLT	2	
-40	AN365-428	. . NUT	4	
-41	AN4-12A	. . BOLT	2	
-42	199-43014	. . ROD ASSY, Engine control firewall to engine throttle	1	
-43	199-43013	. . ROD ASSY, Engine control firewall to engine mixture	1	
-44	RE4F5	. . . ROD END, Ball bearing (Fafnir.)	2	
-45	AN316-5R	. . . NUT	2	
-46	199-43014-3	. . . ROD, Eng. control firewall to eng throttle (on 199-43014)	1	
	199-43013-3	. . . ROD, Eng control firewall to eng mixture (on 199-43014).	1	
-47	RA2258-3	. . TERMINAL, (quick detachable) (American Chain & Cable)	2	
-48	AN155-8S	. . BARREL	2	
-49	AN365-428	. . NUT	1	
-50	2W18-416	. . WASHER, (North American)	1	
-51	AN4-6A	. . BOLT	1	
-52	AN320-3	. . NUT	1	
-53	2W18-10	. . WASHER, (North American)	1	
-54	AN23-9	. . BOLT	1	
-55	AN530-6R4	. . SCREW	1	
-56	SA4307	CABLE ASSY, (American Chain and Cable) (see figure 29)	Ref	
-57	189-430050	CLUSTER ASSY, Eng control firewall (see figure 29)	Ref	

POWER PLANT AND ENGINE SECTION (Cont)

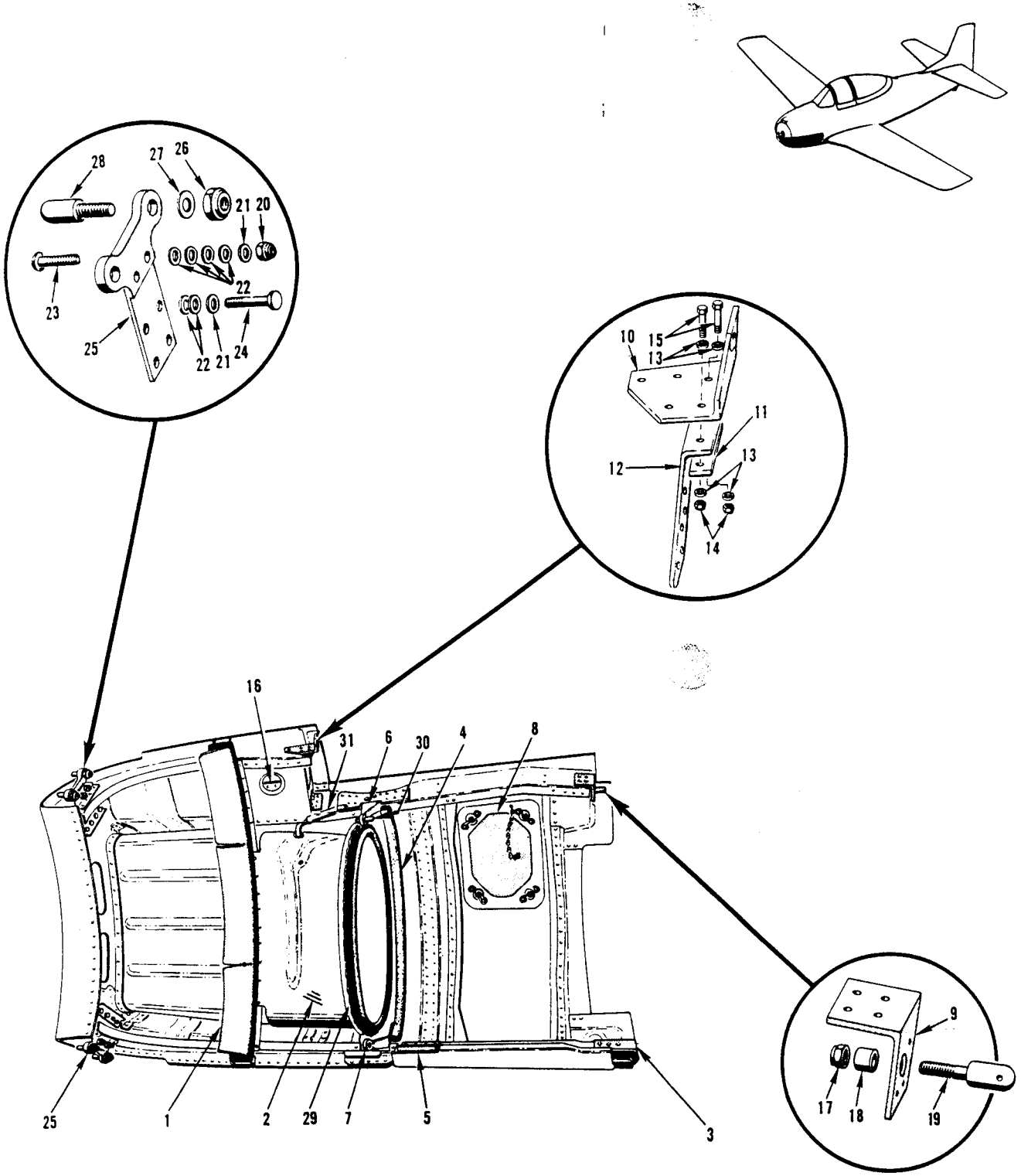


FIGURE 22 - ENGINE LOWER LH COWL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
22	200-31507	COWL ASSEMBLY, Engine lower LH (see figure 23 for next assembly)	Ref	
	200-31507-61	. SUB ASSEMBLY, Cowl assembly engine lower LH	1	
	200-47006	. . DUCT ASSEMBLY, Oil collor forward.	1	
	200-47006-9	. . . SUB ASSEMBLY, Duct assembly oil cooler forward.	1	
-1	199-31508-7	. . . . SEAL ASSEMBLY, Cowl station 14.92 engine air	1	
	AN520-10R7	. . . . SCREW.	7	
	2W10C13-20-32	. . . . WASHER, Plain (North American)	7	
	2W17-10L	. . . . WASHER, Corrosion resistant steel (North American)	2	
	AN365-1032	. . . . NUT.	2	
-2	200-47060	. . . SHIELD ASSEMBLY, Engine lower LH cowl oil cooler duct	1	
-3	200-315379-3	. . FITTING, Engine lower LH cowl firewall upper attaching	1	
-4	200-31509-39	. . SEAL ASSEMBLY, Engine cowl to fixed cowl	1	
-5	200-31507-21	. . SEAL ASSEMBLY, Engine lower LH cowl (altered from Johns. Mansfield MX3496)	1	
-6	200-315352	. . BRACKET, Engine lower LH cowl to fixed cowl lower attach	1	
-7	200-415351	. . BRACKET, Engine lower LH cowl to fixed cowl upper attach	1	
-8	200-47076	. . DOOR ASSEMBLY, Oil cooler drain access	1	
	GF6-1/2-218	. . . GROMMET, (Dzus)	4	
	FA6-1/2-50	. . . STUD, (Dzus).	4	
-9	200-315376	. . FITTING, Engine lower LH cowl lower aft shear pin.	1	
-10	200-315384	. . FITTING, Engine lower LH cowl torque box attaching	1	
	226-931507-11	. . FITTING, Engine lower LH cowl torque box attaching	1	
-11	226-931507-3	. . . SPACER, Engine lower LH cowl torque box attaching fitting	1	
-12	226-931507-5	. . . ANGLE, Engine lower LH cowl torque box attaching. fitting	1	
-13	2W18-3	. . . WASHER, Flat (North American)	4	
-14	AN365-1032	. . . NUT	2	
-15	AN3-6A	. . . BOLT.	2	
-16	200-47175	. . FRAME, Engine lower LH cowl oil cooler duct leading edge	1	
-17	AN365-524	. NUT	1	
-18	MAS43DD5-16	. SPACER, Screw and bolt.	1	
-19	159-315121-3	. PIN, Engine cowl aligning shear	1	
-20	AN365-428	. NUT	4	
-21	2W18-416	. WASHER, Flat (North American)	12	
-22	2W18-416L	. WASHER, Flat (North American)	32	
-23	AN509-416R16	. SCREW	4	
-24	AN4-7A	. BOLT, (magnetic inspected).	3	
-25	200-315259	. PLATE ASSEMBLY, Engine lower cowl shear pin	2	
-26	AN365-918	. . NUT.	2	
-27	2W1-36-28-93	. . WASHER, Plain (North American)	2	
-28	159-315536	. . PIN, Engine cowl aligning shear leading edge	2	
-29	200-47061	. SEAL, Oil cooler air duct forward	1	
-30	159-315121-3	. PIN, Engine cowl aligning shear	1	
	2W18-516L	. WASHER, Flat (North American)	1	
	AN365-524	. NUT	1	
-31	200-31507-25	. TUBE, Engine lower LH cowl.	1	
	A3122-10-1	. CLAMP (Tinnerman)	1	

POWER PLANT AND ENGINE SECTION (Cont)

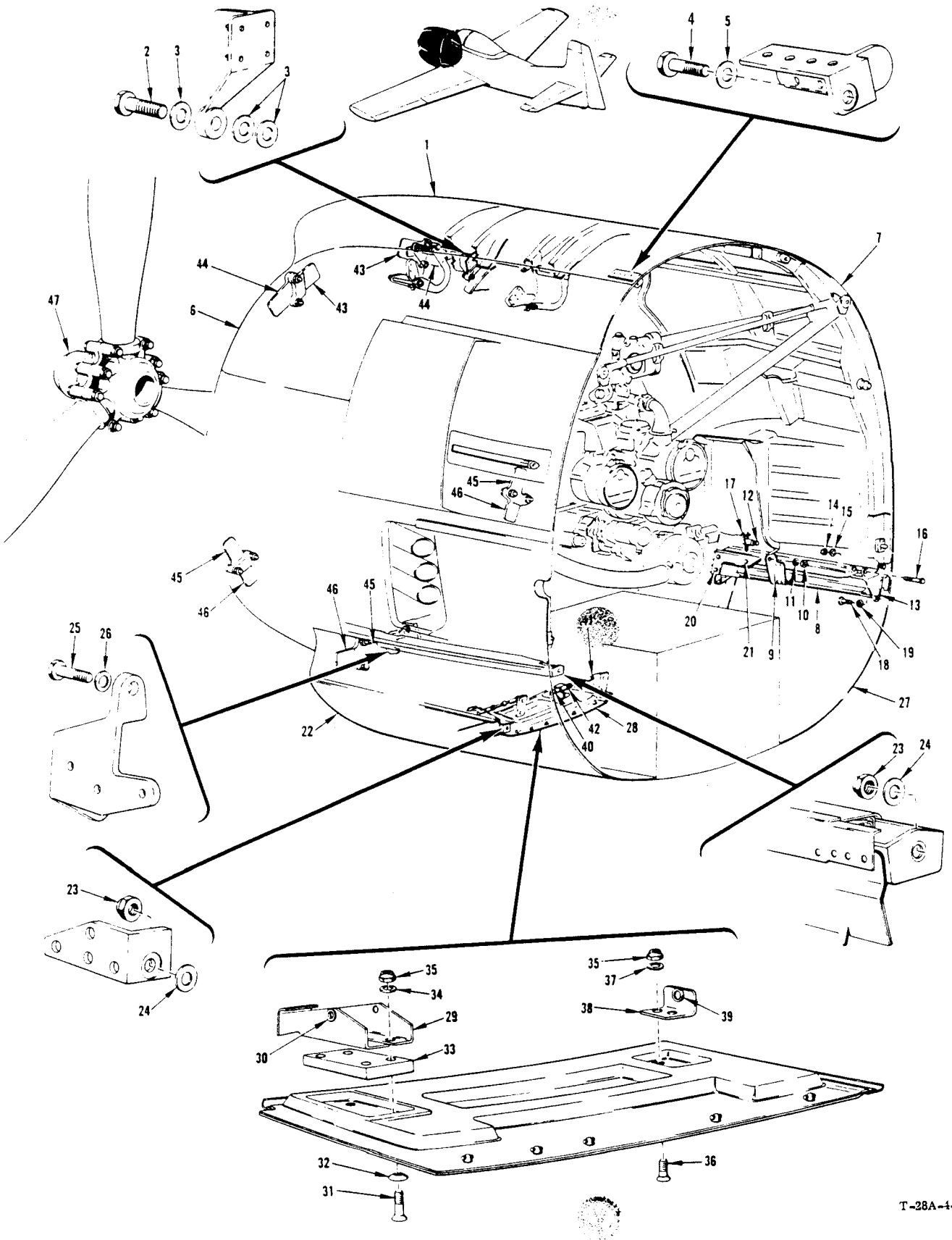


FIGURE 23 - COWLING AND PROPELLER INSTALLATION

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
23		COWLING AND PROPELLER INSTALLATIONS		
	200-31540	. COWLING INSTALLATION, Engine (see figure 15 for next assembly)	NP	
-1	200-31503	. . COWLING ASSEMBLY, Engine upper (see figure 27 for bkdn)	1	
-2	AN5-10A	. . BOLT	2	
-3	2W18-516L	. . WASHER, Flat (North American) (one used under head of bolt) (use as required to shim between fitting and cowl)	2	
-4	AN4H13A	. . BOLT, (magnetic inspected)	2	
-5	2W18-416	. . WASHER, Flat (North American)	2	
-6	200-31504-61	. . COWL ASSEMBLY, Engine LH side (see figure 24 for breakdown)	1	
-7	200-31504-62	. . COWL ASSEMBLY, Engine RH side (see figure 26 for breakdown)	1	
-8	200-31595	. . BEAM ASSEMBLY, Engine cowl hinge complete (on RH side only)	1	
-9	200-31597	. . . ANGLE, Engine lower RH cowl hinge beam attaching	1	
-10	AN365-428	. . . NUT	1	
-11	AN960D416L	. . . WASHER	1	
-12	159-315249	. . . PIN, Engine cowl RH hinge beam	1	
-13	159-315251	. . . FITTING, Engine lower RH cowl hinge beam aft hinge	1	
-14	AN365-624	. . . NUT	1	
-15	AN960D616L	. . . WASHER	1	
-16	159-315250	. . . BOLT, Engine cowl RH hinge beam	1	
-17	200-31599	. . . PIN ASSEMBLY, Engine cowl hinge beam retaining	1	
-18	AN4-6A	. . BOLT	2	
-19	2W18-416	. . WASHER, Flat (North American)	2	
-20	AN4-5A	. . BOLT, (magnetic inspected)	2	
	2W13-4	. . WASHER, Serrated (North American)	2	
-21	AN4-5A	. . BOLT, (magnetic inspected)	1	
	2W18-416	. . WASHER, Flat (North American)	1	
	2W18-416L	. . WASHER, Flat (North American)	1	
-22	200-31507	. . COWL ASSEMBLY, Engine lower LH (see fig. 22 for breakdown)	1	
-23	AN365-428	. . NUT	2	
-24	2W1AL16-20-64	. . WASHER, Plain (North American)	2	
-25	AN4-7A	. . BOLT, (magnetic inspected)	1	
-26	2W18-416	. . WASHER, Flat (North American)	1	
-27	200-31506-701	. . COWL ASSEMBLY, Engine lower RH (see figure 28 for breakdown)	1	
-28	200-315390	. . COWLING ASSEMBLY, Engine lower center	1	
	B8292-2-17C	. . . STUD, (United Aircraft)	2	
	B8292-1-14C	. . . STUD, (United Aircraft)	3	
	B9836	. . . PIN, (United Aircraft)	5	
-29	200-315395	. . . BRACKET ASSEMBLY, Engine lower fixed cowl torque box to control station 15.054	1	
-30	4B18-4-91	. . . . BUSHING, Shoulder (North American)	1	
-31	AN509-10R18	. . . SCREW	2	
	AN509-10R19	. . . SCREW	2	
-32	A3235-020SS	. . . WASHER, (Tinnerman)	4	
-33	200-315398	. . . SPACER, Engine lower fixed cowl	1	
-34	2W18-10M	. . . WASHER, Flat (North American)	4	
-35	AN365-1032	. . . NUT	6	
-36	AN509-10R8	. . . SCREW	2	
-37	AN960D10L	. . . WASHER	2	
-38	200-315394	. . . BRACKET ASSEMBLY, Engine lower fixed cowl	1	
-39	4B18-4-91	. . . . BUSHING, Shoulder (North American)	1	
-40	AN24-14	. . . BOLT	2	
	AN960D416	. . . WASHER	2	
	AN320-4	. . . NUT	2	
-41	AN24-8	. . . BOLT	2	
	AN960D416	. . . WASHER	2	
	AN320-4	. . . NUT	2	
-42	200-315393	. . . BRACE ASSEMBLY, Engine lower fixed canted station 14.292 torque box to cowl	2	
	AN486-1	. . . . CLEVIS	1	
	AN486-2	. . . . CLEVIS	1	
	AN316-4	. . . . NUT	2	
	200-315393-3	. . . . ROD, Engine lower fixed canted fuselage station 14.292 torque box to cowl brace	1	
-43	200-315265	. . SHIM, Engine cowl panel forward shear pin fitting upper step	8	
	200-315266	. . SHIM, Engine cowl panel forward shear pin fitting upper	8	
-44	200-315271	. . SHIM, Engine side cowl upper aligning plate	8	
-45	200-315268	. . SHIM, Engine cowl panel forward shear pin fitting	12	
-46	200-315269	. . SHIM, Engine cowl panel forward shear pin fitting lower step	12	
	200-315267	. . SHIM, Engine cowl panel forward shear pin fitting	12	
	189-440001	. PROPELLER INSTALLATION	NP	
-47	33D50-119/7133A18S	. . PROPELLER ASSEMBLY, (Hamilton Standard)	1	

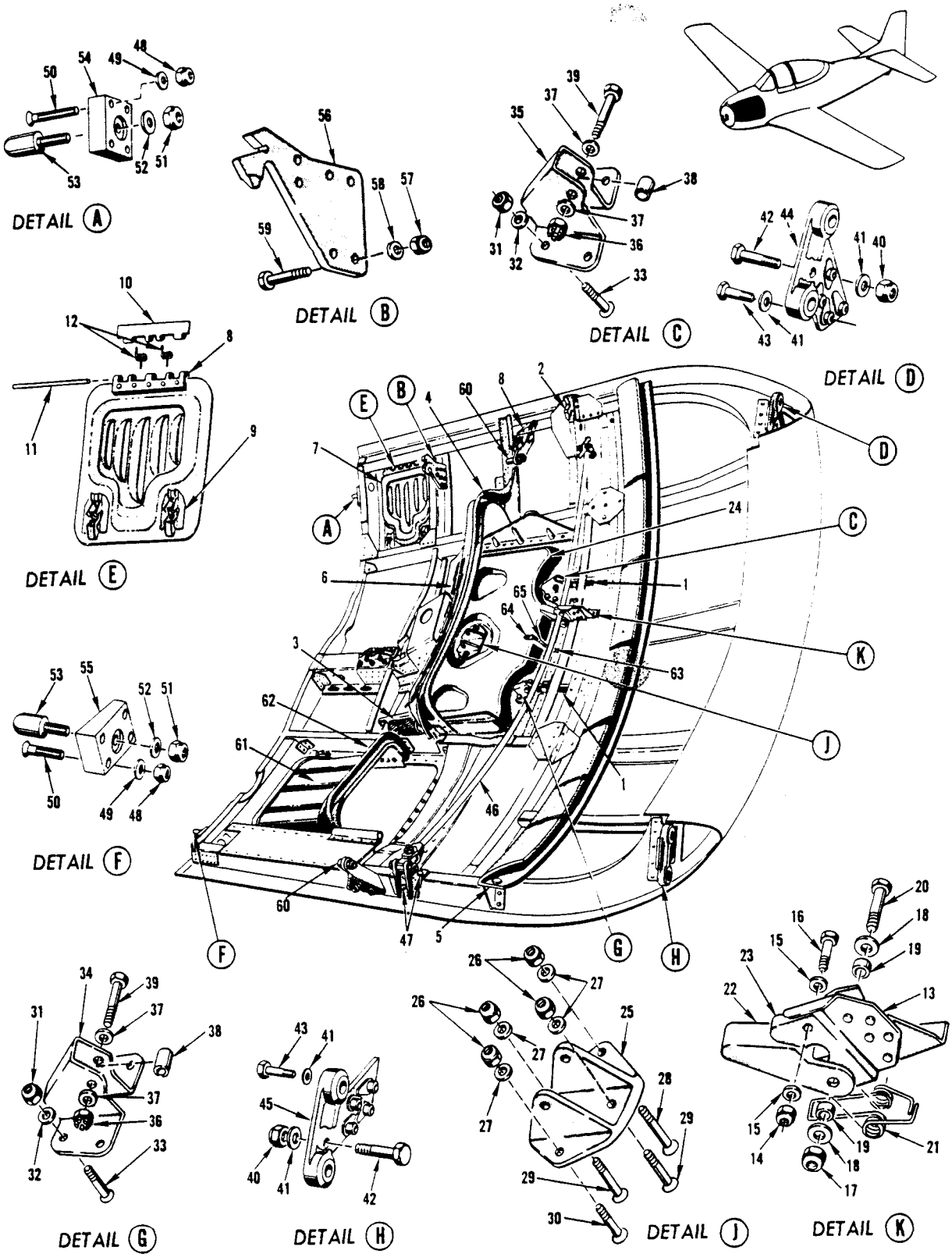


FIGURE 24 - ENGINE LH SIDE COWL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
24	200-31504-61	COWL ASSEMBLY, Engine LH side (see figure 23 for next assembly)	Ref	
	No Number	. ENGINE SIDE COWL COVER AND LATCH ASSEMBLY (see fig. 28A for breakdown)	NP	
	200-31505-61	. COWL ASSEMBLY, Engine LH side	1	
-1	199-31514	. . BAR ASSEMBLY, Engine side cowl flap hinge	2	
	4B19S6-009	. . . BUSHING, Press fit plain (North American)	2	
-2	199-31544	. . HINGE, Engine side cowl forward	1	
-3	200-315184-1	. . SEAL ASSEMBLY, Engine side and fixed cowl compression joint LH	1	
-4	200-31509-35	. . SEAL ASSEMBLY, Engine cowl to fixed cowl	1	
-5	199-31508-5	. . SEAL ASSEMBLY, Cowl station 14.92 engine air complete	1	
	200-315150-1	. . DUCT ASSEMBLY, Side cowl cooling air outlet LH	1	
-6	159-315405	. . . SPRING, Engine cooling flap over-travel	8	
-7	200-315133	. . DOOR ASSEMBLY, Engine side cowl oil filter access	1	
	200-315133-17	. . . DOOR SUBASSEMBLY, Engine side cowl oil filter access	1	
-8	200-315133-7	. . . . HALF HINGE, Engine side cowl oil filter access door subassembly (make from MS20001PX4-413)	1	
-9	H5000-051-115	. . . . LATCH, (Hartwell Aviation)	2	
-10	200-315133-9	. . . HALF HINGE, Engine side cowl oil filter access door assembly (make from MS20001PX4-413)	1	
-11	AN253-2-400	. . . PIN	1	
-12	159-315200	. . . SPRING, Engine cowl oil filter access door	2	
-13	200-315225	. . BRACKET ASSEMBLY, Engine side cowl stay rod stowage LH	1	
-14	AN365-1032	. NUT	1	
-15	2W1-13-14-32	. WASHER, Plain (North American)	2	
-16	AN3-5A	. BOLT	1	
-17	AN365-428	. NUT	1	
-18	2W1-17-20-63	. WASHER, Plain (North American)	2	
-19	NAS43C4-20	. SPACER, Screw and bolt	2	
-20	AN4-13A	. BOLT	1	
-21	171-31560	. SPRING, Engine cowling stay rod stowage bracket	1	
-22	171-31561	. LEVER, Engine cowling stay rod stowage bracket	1	
-23	171-31559	. FAIRLEAD, Engine cowling stay rod stowage bracket	1	
-24	200-315207-1	. FLAP ASSEMBLY, Engine cowl cooling air exit LH	1	
-25	159-315160	. . FITTING, Engine cowl flap actuator attaching	1	
-26	AN365-428	. . NUT	4	
-27	AN960D416	. . WASHER	4	
-28	AN509-416-13	. . SCREW	1	
-29	AN509-416-12	. . SCREW	2	
-30	AN509-416-11	. . SCREW	1	
-31	AN365-428	. . NUT	8	
-32	AN960D416	. . WASHER	8	
-33	AN509-416-10	. . SCREW	8	
-34	200-315200-1	. . HINGE, Engine side cowl flap lower LH	1	
-35	200-315201-1	. . HINGE, Engine side cowl flap upper LH	1	
-36	AN310-4	. NUT	2	
-37	2W18-416	. WASHER, Flat (North American)	4	
-38	4B21S4-010	. BUSHING, Spacer (North American)	2	
-39	AN4-7	. BOLT	2	
-40	AN365-428	. NUT	4	
-41	2W18-416	. WASHER, Flat (North American)	12	
-42	AN4-10A	. BOLT, (magnetic inspected)	4	
-43	AN4-7A	. BOLT	8	
-44	174-31524-7	. PLATE ASSEMBLY, Engine side cowl upper shear pin LH	1	
-45	200-315261-5	. PLATE ASSEMBLY, Engine cowl shear pin	1	
-46	200-315194-3	. STAY ROD ASSEMBLY, Engine side cowl complete LH (see figure 25 for breakdown)	1	
-47	AN3-6A	. BOLT	3	
	2W18-10	. WASHER, Flat (North American)	6	
	AN365-1032	. NUT	3	
-48	AN365-1032	. NUT	8	
-49	2W18-10	. WASHER, Flat (North American)	8	
-50	AN509-10R18	. SCREW	8	
-51	AN365-524	. NUT	2	
-52	2W18-516L	. WASHER, Flat (North American)	2	
-53	159-315121-3	. PIN, Engine cowl aligning shear	2	
-54	159-315606-3	. BLOCK, Engine side cowl upper rear shear pin	1	
-55	159-315607-3	. BLOCK, Engine side cowl lower rear shear pin	1	
-56	199-31545-3	. HINGE, Engine side cowl aft	1	
-57	AN365-1032	. NUT	6	
-58	2W18-10	. WASHER, Flat (North American)	6	
-59	AN3-7A	. BOLT	6	
-60	159-315121-3	. PIN, Engine cowl aligning shear	2	
	AN364-524	. NUT	2	
	2W18-516L	. WASHER, Flat (North American)	2	
-61	200-42020-1	. SHROUD ASSEMBLY, Engine side cowl exhaust LH	1	
	ATTACHING PARTS			
	AN509-10R8	. SCREW	1	
	AN509-10R9	. SCREW	9	
	AN509-10R10	. SCREW	2	
	2W1AL13-16-32	. WASHER, Plain (North American)	1	
	2W1AL13-16-64	. WASHER, Plain (North American)	9	

(Nomenclature continued on next page)

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
24	AN364-1032	.	NUT	1	
	AN365-1032	.	NUT	1	
	---*---				
-62	200-81503-37	.	. SEAL ASSEMBLY, Engine cowl to fixed cowl LH.	1	
-63	AN363-1032	.	NUT	1	
	AN525-10R12	.	SCREW	1	
	2017-10	.	WASHER, Corrosion-resistant steel (North American)	1	
-64	AN525-10R8	.	SCREW	1	
	2017-10	.	WASHER, Corrosion-resistant steel (North American)	1	
-65	MS35691-13E	.	JUMPER ASSEMBLY	1	

POWER PLANT AND ENGINE SECTION (Cont)

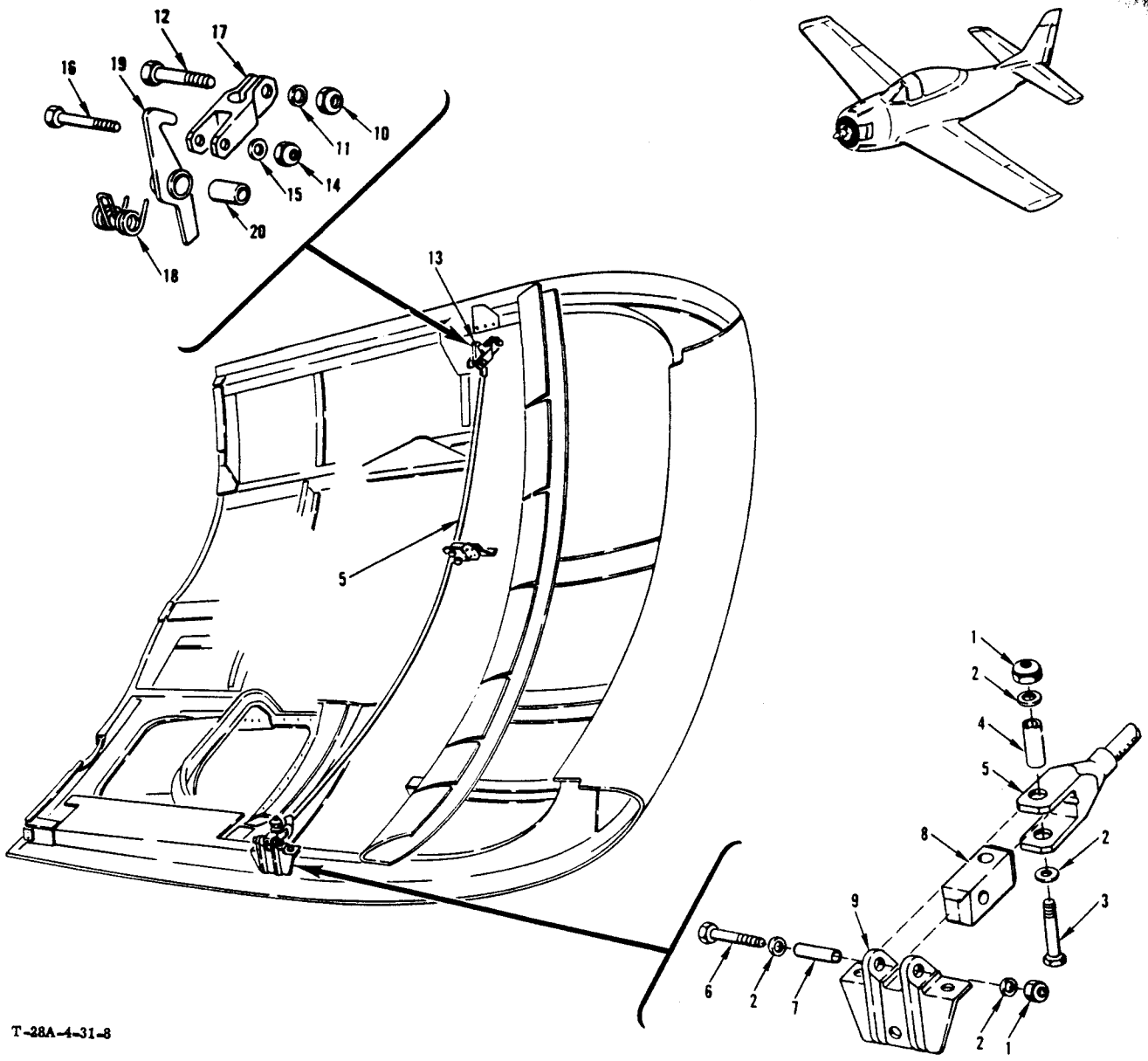


FIGURE 25 - ENGINE SIDE COWL STAY ROD ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
25	200-315194-3	STAY ROD ASSEMBLY, Engine side cowl complete LH (see figure 24 for next assembly)	Ref	
	200-315194-4	STAY ROD ASSEMBLY, Engine side cowl complete RH (see figure 26 for next assembly)	Ref	
-1	AN365-428	. NUT	2	
-2	AN960D416	. WASHER	4	
-3	AN4-14A	. BOLT	1	
-4	4B19S4-102	. BUSHING, Press fit plain (North American)	1	
-5	199-31527-3	. STAY ROD ASSEMBLY, Engine side cowl LH	1	
	199-31527-4	. STAY ROD ASSEMBLY, Engine side cowl RH	1	
-6	AN4-16A	. BOLT	1	
-7	4B19S4-108	. BUSHING, Press fit plain (North American)	1	
-8	174-31558	. FITTING, Engine side cowl stay rod	1	
-9	200-315195	. BRACKET, Engine side cowl stay rod attaching	1	
-10	AN365-428	. NUT	1	
-11	AN960D416	. WASHER	1	
-12	AN4-7A	. BOLT	1	
-13	174-31582	. CLAMP ASSEMBLY, Engine side cowl stay rod	1	
-14	AN365-1032	. . NUT	1	
-15	AN960D10	. . WASHER	1	
-16	AN3-10A	. . BOLT	1	
-17	174-31577	. . CLAMP, Engine cowl stay rod latch	1	
-18	174-31581	. . SPRING, Engine cowl stay rod latch	1	
-19	174-31578	. . LATCH ASSEMBLY, Engine cowl stay rod	1	
-20	4B21S3-014	. . BUSHING, Spacer (North American)	1	

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
26	200-31504-62	COWL ASSEMBLY, Engine RH side (see figure 23 for next assembly).	Ref	
	No Number	. ENGINE SIDE COWL COVER AND LATCH ASSEMBLY (see fig. 28A for breakdown)	NP	
	200-31505-62	. COWL ASSEMBLY, Engine RH side	1	
-1	199-31514	. . BAR ASSEMBLY, Engine side cowl flap hinge.	2	
	4B19S6-009	. . . BUSHING, Press fit plain (North American)	2	
-2	199-31544	. . HINGE, Engine side cowl forward.	1	
-3	200-315184-2	. . SEAL ASSEMBLY, Engine side and fixed cowling compression joint RH	1	
-4	200-31509-36	. . SEAL ASSEMBLY, Engine cowl to fixed cowl	1	
-5	199-31508-35	. . SEAL ASSEMBLY, Cowl station 14.92 engine air complete.	1	
	200-315150-2	. . DUCT ASSEMBLY, Side cowl cooling air outlet RH	1	
-6	159-31540S	. . . SPRING, Engine cooling flap over-travel	8	
-7	200-315224	. . BRACKET ASSEMBLY, Engine side cowl stay rod stowage RH	1	
-8	AN365-1032	. NUT	1	
-9	2W1-13-14-32	. WASHER, Plain (North American).	2	
-10	AN3-5A	. BOLT.	1	
-11	AN365-428	. NUT	1	
-12	2W1-17-20-63	. WASHER, Plain (North American).	2	
-13	NAS43C4-20	. SPACER, Screw and bolt.	2	
-14	AN4-13A	. BOLT.	1	
-15	171-31560	. SPRING, Engine cowling stay rod stowage bracket	1	
-16	171-31561	. LEVER, Engine cowling stay rod stowage bracket.	1	
-17	171-31559	. FAIRLEAD, Engine cowling stay rod stowage bracket	1	
-18	200-315194-4	. STAY ROD ASSEMBLY, Engine side cowl complete RH (see figure 25 for breakdown)	1	
-19	AN3-6A	. BOLT.	3	
	2W18-1C	. WASHER, Flat (North American)	6	
	AN365-1032	. NUT	3	
-20	200-315207-2	. FLAP ASSEMBLY, Engine cowl cooling air exit RH.	1	
-21	159-315160	. . FITTING, Engine cowl flap actuator attaching	1	
-22	AN365-428	. . NUT.	4	
-23	AN960D416	. . WASHER	4	
-24	AN509-416-13	. . SCREW.	1	
-25	AN509-416-12	. . SCREW.	2	
-26	AN509-416-11	. . SCREW.	1	
-27	AN365-428	. . NUT.	3	
-28	AN960D416	. . WASHER	3	
-29	AN509-416-10	. . SCREW.	3	
-30	200-315201-2	. . HINGE, Engine side cowl flap upper RH.	1	
-31	200-315200-2	. . HINGE, Engine side cowl flap lower RH.	1	
-32	AN310-4	. NUT	2	
-33	2W18-416	. WASHER, Flat (North American)	4	
-34	4B134-C10	. BUSHING, Spacer (North American).	2	
-35	AN4-7	. BOLT.	2	
-36	AN365-428	. NUT	4	
-37	2W18-416	. WASHER, Flat (North American)	12	
-38	AN4-7A	. BOLT.	8	
-39	AN4-10A	. BOLT.	4	
-40	171-31524-8	. PLATE ASSEMBLY, Engine side cowl upper shear pin RH	1	
-41	200-315261-5	. PLATE ASSEMBLY, Engine cowl shear pin	1	
-42	AN365-1032	. NUT	8	
-43	2W18-10	. WASHER, Flat (North American)	8	
-44	AN509-10R18	. SCREW	8	
-45	AN365-524	. NUT	2	
-46	2W18-516L	. WASHER, Flat (North American)	2	
-47	159-315121-3	. PIN, Engine cowl aligning shear	2	
-48	159-315606-3	. BLOCK, Engine side cowl upper rear shear pin.	1	
-49	159-315607-3	. BLOCK, Engine side cowl lower rear shear pin.	1	
-50	199-31545-3	. HINGE, Engine side cowl aft	1	
-51	AN365-1032	. NUT	6	
-52	2W18-10	. WASHER, Flat (North American)	6	
-53	AN3-10A	. BOLT.	4	
-54	AN3-7A	. BOLT.	2	
-55	200-42020-2	. SHROUD ASSEMBLY, Engine side cowl exhaust RH.	1	
	ATTACHING PARTS			
	AN509-10R9	. SCREW	9	
	AN509-10R10	. SCREW	2	
	2W1AL13-16-64	. WASHER, Plain (North American).	9	
	AN365-1032	. NUT	9	
	---*---			
-56	200-31509-38	. SEAL ASSEMBLY, Engine cowl to fixed cowl RH.	1	
-57	AN363-1032	. NUT	1	
	AN520-10R12	. SCREW	1	
	2W17-10	. WASHER, Corrosion-resistant steel (North American).	2	
	AN520-10R8	. SCREW	1	
	2W17-10	. WASHER, Corrosion-resistant steel (North American).	1	
	MS25083-1BB6	. JUMPER ASSEMBLY	1	

POWER PLANT AND ENGINE SECTION (Cont)

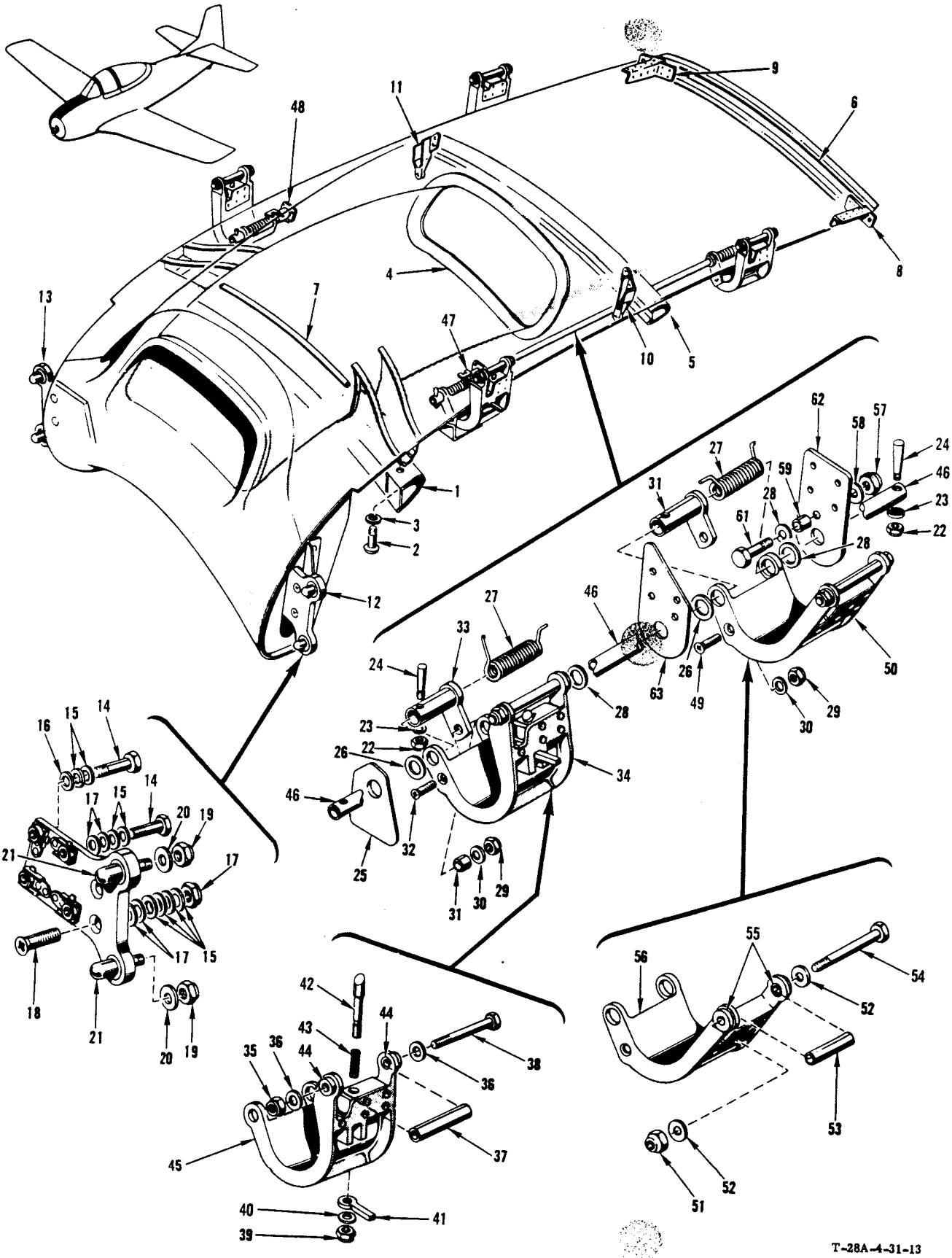


FIGURE 27 - ENGINE UPPER COWL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
27	200-31503	COWL ASSEMBLY, Engine upper (see figure 23 for next assembly)	Ref	
	200-31503-105	. COWL SUBASSEMBLY, Engine upper	1	
	200-31503-101	. . COWL SUBASSEMBLY, Engine upper	1	
-1	199-31508-3	. . . SEAL ASSEMBLY, Engine cowl to fixed cowl	1	
	ATTACHING PARTS			
-2	AN520-10R8	. . . SCREW	8	
-3	2W1C13-20-32	. . . WASHER, (North American)	8	
	---*---			
	200-31503-103	. . COWL SUBASSEMBLY, Engine upper	1	
	200-42090	. . . DUCT ASSEMBLY, Carburetor air inlet	1	
-4	200-42095	. . . . SEAL, Carburetor air duct	1	
	200-31503-109	. COWL SUBASSEMBLY, Engine upper	1	
-5	200-31509-33	. . SEAL ASSEMBLY, Engine cowl to fixed cowl	1	
-6	200-31503-19	. SEAL, Engine upper cowl rear hinge aft	1	
-7	200-31517-9	. SEAL, Engine cowl station 14.92 engine air	1	
-8	200-31586-1	. FITTING, Engine upper cowl aft attaching LH	1	
-9	200-31586-2	. FITTING, Engine upper cowl aft attaching RH	1	
-10	200-31585-1	. FITTING, Engine upper cowl to dishpan attaching LH	1	
-11	200-31585-2	. FITTING, Engine upper cowl to dishpan attaching RH	1	
-12	200-31568-1	. PLATE ASSEMBLY, Engine upper cowl shear pin LH	1	
-13	200-31568-2	. PLATE ASSEMBLY, Engine upper cowl shear pin RH	1	
	ATTACHING PARTS			
-14	NAS1304-7	. BOLT	8	
-15	2W18-416L	. WASHER, (North American)	32	
-16	2W18-416	. WASHER, (North American)	20	
-17	AN365-428	. NUT	4	
-18	AN509-416R16	. SCREW	4	
	---*---			
-19	AN364-918	. . NUT	2	
-20	2W1-36-28-93	. . WASHER, (North American)	2	
-21	159-315536	. . PIN, Engine cowl aligning shear leading edge	2	
-22	AN364-1032	. NUT	4	
-23	AN975-3	. WASHER	4	
-24	AN386-1-6A	. PIN	4	
-25	200-31563	. SUPPORT, Engine upper cowl forward hinge forward	2	
-26	2W18-816L	. WASHER, (North American)	4	
-27	159-315129-1	. SPRING, Engine upper cowl hinge LH	2	
-28	2W18-616L	. WASHER, (North American)	4	
-29	AN365-428	. NUT	6	
-30	2W18-416	. WASHER, (North American)	6	
-31	NAS43C4-16	. SPACER, Screw and bolt	4	
-32	AN509-416R17	. SCREW	4	
-33	159-315617-11	. BUSHING ASSEMBLY, Engine upper cowl hinge LH	2	
	159-315617-12	. BUSHING ASSEMBLY, Engine upper cowl hinge RH	2	
-34	159-315603-21	. HINGE ASSEMBLY, Engine upper cowl forward LH	1	
	159-315603-22	. HINGE ASSEMBLY, Engine upper cowl forward RH	1	
-35	AN365-428	. . NUT	1	
-36	2W1AL17-28-64	. . WASHER, (North American)	2	
-37	159-315147	. . PIN, Engine top center cowl forward hinge lower	1	
-38	AN4-36A	. . BOLT	1	
-39	AN364-1032	. . NUT	1	
-40	AN960C10L	. . WASHER	1	
-41	159-315149-5	. . HANDLE, Engine top center cowl forward LH	1	
-42	159-315144	. . BOLT, Engine top center forward hinge latch	1	
-43	151-52040	. . SPRING, Compression type	1	
-44	174-31537	. . BUSHING, Engine top cowl hinge	2	
-45	200-31572-1	. . HINGE, Engine upper cowl forward LH	1	
	200-31572-2	. . HINGE, Engine upper cowl forward RH	1	
-46	159-315658-11	. TUBE, Engine upper cowl hinge connecting	2	
-47	200-31569-1	. SUPPORT, Engine upper cowl spring stop and forward hinge aft LH	1	
-48	200-31569-2	. SUPPORT, Engine upper cowl spring stop and forward hinge aft RH	1	
-49	AN509-416R14	. SCREW	2	
-50	159-315609-11	. HINGE ASSEMBLY, Engine upper cowl aft LH	1	
	159-315609-12	. HINGE ASSEMBLY, Engine upper cowl aft RH	1	
-51	AN365-428	. . NUT	1	
-52	2W1AL17-28-64	. . WASHER, Plain (North American)	2	
-53	159-315147	. . PIN, Engine top center cowl forward hinge lower	1	
-54	AN4-36A	. . BOLT	1	
-55	174-31537	. . BUSHING, Engine top cowl hinge	2	
-56	159-315602-1	. . HINGE, Engine upper cowl aft LH	1	
	159-315602-2	. . HINGE, Engine upper cowl aft RH	1	
-57	AN365-1032	. NUT	2	
-58	2W18-10	. WASHER, (North American)	2	
-59	NAS43C3-32	. SPACER, Screw and bolt	2	
-60	2W1C13-20-32	. WASHER, (North American)	2	
-61	AN3-11A	. BOLT	2	
-62	200-31566	. SUPPORT, Engine upper cowl rear hinge aft	2	
-63	200-31565	. SUPPORT, Engine upper cowl rear hinge forward	2	

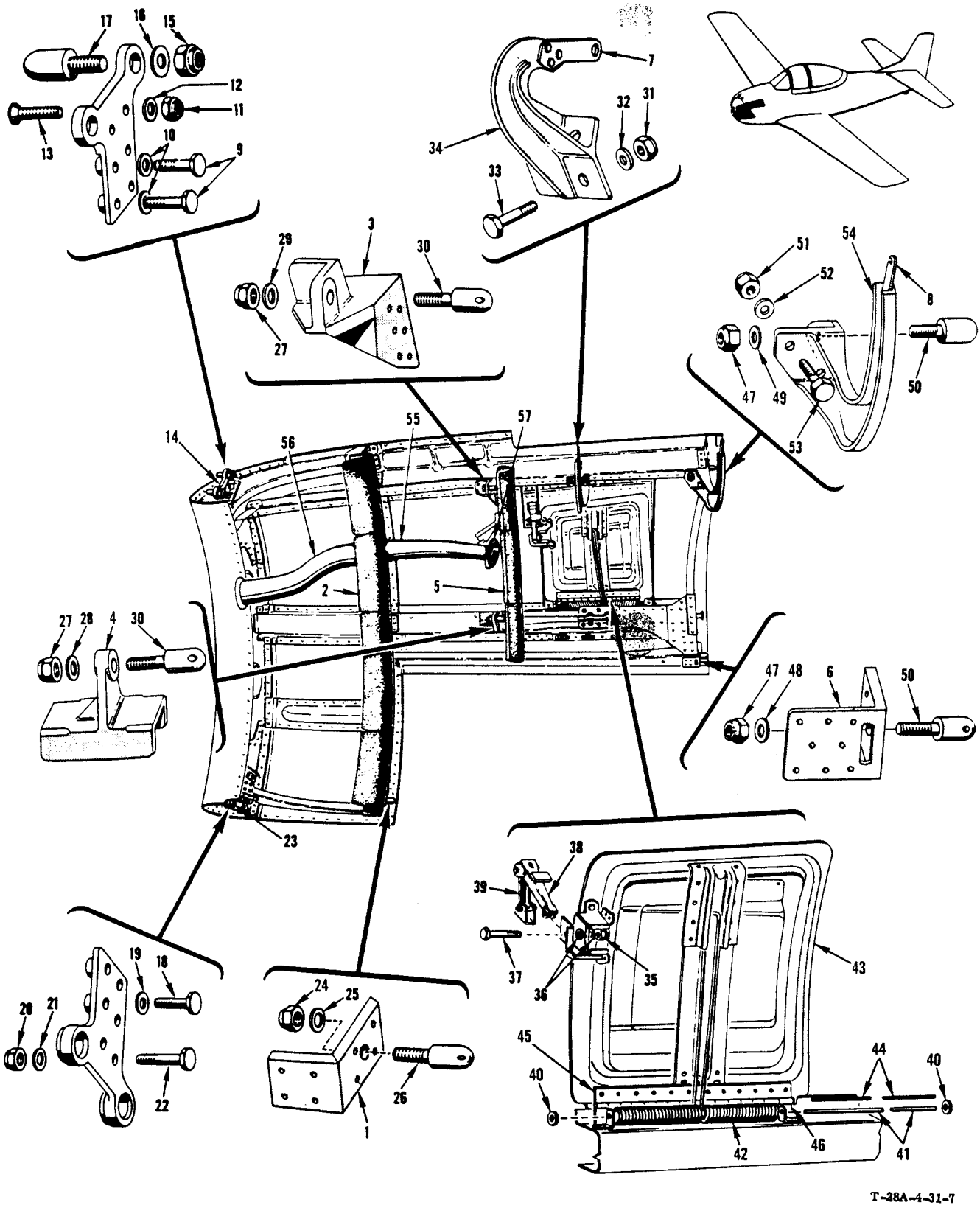


FIGURE 28 - ENGINE LOWER RH COWL ASSEMBLY

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
28	200-31506-701	COWL ASSEMBLY, Engine lower RH (see figure 23 for next assembly)	Ref	
	No Number	. ENGINE LOWER COWL COVER AND LATCH ASSEMBLY (see fig. 28A for breakdown)	NP	
	200-31506-59	. COWL SUBASSEMBLY, Engine lower RH	1	
-1	199-31515	. . CLIP, Engine lower RH cowl lower intercostal to fuselage station 15.812 frame	1	
-2	199-31508-9	. . SEAL ASSEMBLY, Cowl station 14.92 engine air	1	
-3	200-315244	. . BRACKET, Lower RH cowl upper shear pin cowl station 27.125	1	
-4	200-315260	. . BRACKET, Engine lower RH cowl canted fuselage station. 25.773 lower shear pin	1	
-5	200-31509-41	. . SEAL ASSEMBLY, Engine cowl to fixed cowl	1	
-6	199-31550	. . FITTING, Engine lower RH cowl aft frame lower shear pin.	1	
-7	200-315264	. FITTING, Engine lower RH cowl forward hinge bracket	1	
-8	200-315262	. FITTING, RH lower engine cowl hinge bracket	1	
-9	AN4-7A	. BOLT, (magnetic inspected).	4	
-10	2W18-416L	. WASHER, Flat (North American)	4	
-11	AN365-428	. NUT	2	
-12	2W18-416	. WASHER, Flat (North American)	2	
-13	AN509-416R13	. SCREW, (magnetic inspected)	2	
-14	200-315259	. PLATE ASSEMBLY, Engine lower cowl shear pin	1	
-15	AN364-918	. . NUT.	2	
-16	2W1-36-28-93	. . WASHER, Plain (North American)	2	
-17	159-315536	. . PIN, Engine cowl aligning shear leading edge	2	
-18	AN4-7A	. BOLT, (magnetic inspected).	4	
-19	2W18-416L	. WASHER, Flat (North American)	4	
-20	AN365-428	. NUT	2	
-21	2W18-416	. WASHER, Flat (North American)	2	
-22	AN4-5A	. BOLT, (magnetic inspected).	2	
-23	200-315261-5	. PLATE ASSEMBLY, Engine cowl shear pin	1	
-24	AN365-524	. NUT	1	
-25	2W18-516	. WASHER, Flat (North American)	1	
-26	159-315121-3	. PIN, Engine cowl aligning shear	1	
-27	AN365-524	. NUT	2	
-28	2W18-516L	. WASHER, Flat (North American)	1	
-29	2W18-516	. WASHER, Flat (North American)	1	
-30	159-315121-3	. PIN, Engine cowl aligning shear	2	
-31	AN365-428	. NUT	3	
-32	2W18-416L	. WASHER, Flat (North American)	3	
-33	AN4-6A	. BOLT.	1	
-34	159-315561-3	. HINGE, Lower RH engine cowl forward	1	
-35	AN310-3	. NUT	1	
-36	2W17-10L	. WASHER, Corrosion resistant steel (North American).	2	
-37	AN3-10	. BOLT.	1	
-38	159-315106	. BRACE ASSEMBLY, Engine lower RH cowl fire extinguisher door	1	
-39	159-31506-9	. . SPRING, Engine lower RH cowl fire extinguisher door.	1	
-40	2W18-6L	. WASHER, Flat (North American)	2	
-41	159-315503	. ROD, Engine cowl lower RH fire extinguisher door spring support	1	
-42	159-315252	. SPRING, Engine lower RH cowl fire extinguisher door	1	
-43	200-315242	. DOOR ASSEMBLY, Engine cowl access compartment ventilation and fire extinguisher access	1	
-44	200-315242-17	. . PIN, Engine cowl access compartment ventilation and. fire extinguisher access door assembly	1	
-45	200-315242-21	. . HALF HINGE, Engine cowl access compartment ventilation and fire extinguisher access door assembly	1	
-46	200-315242-19	. . HALF HINGE, Engine cowl access compartment ventilation and fire extinguisher access door assembly	1	
-47	AN365-524	. NUT	2	
-48	2W18-516L	. WASHER, Flat (North American)	1	
-49	2W18-516	. WASHER, Flat (North American)	1	
-50	159-315121-3	. PIN, Engine cowl aligning shear	2	
-51	AN365-428	. NUT	3	
-52	2W18-416L	. WASHER, Flat (North American)	6	
-53	AN4-4A	. BOLT.	3	
-54	159-315562	. HINGE, Engine lower right hand cowl aft	1	
-55	200-42061	. DUCT ASSEMBLY, Engine generator cooling air aft	1	
-56	200-42066	. DUCT ASSEMBLY, Engine generator cooling air fwd	1	
	ATTACHING PARTS			
	AN3-4A	. BOLT.	2	
	2W18-10M	. WASHER, Flat (North American)	2	
	AN365-1032	. NUT	2	
	---*---			
-57	200-42062	. SEAL, Engine generator cooling air duct	1	

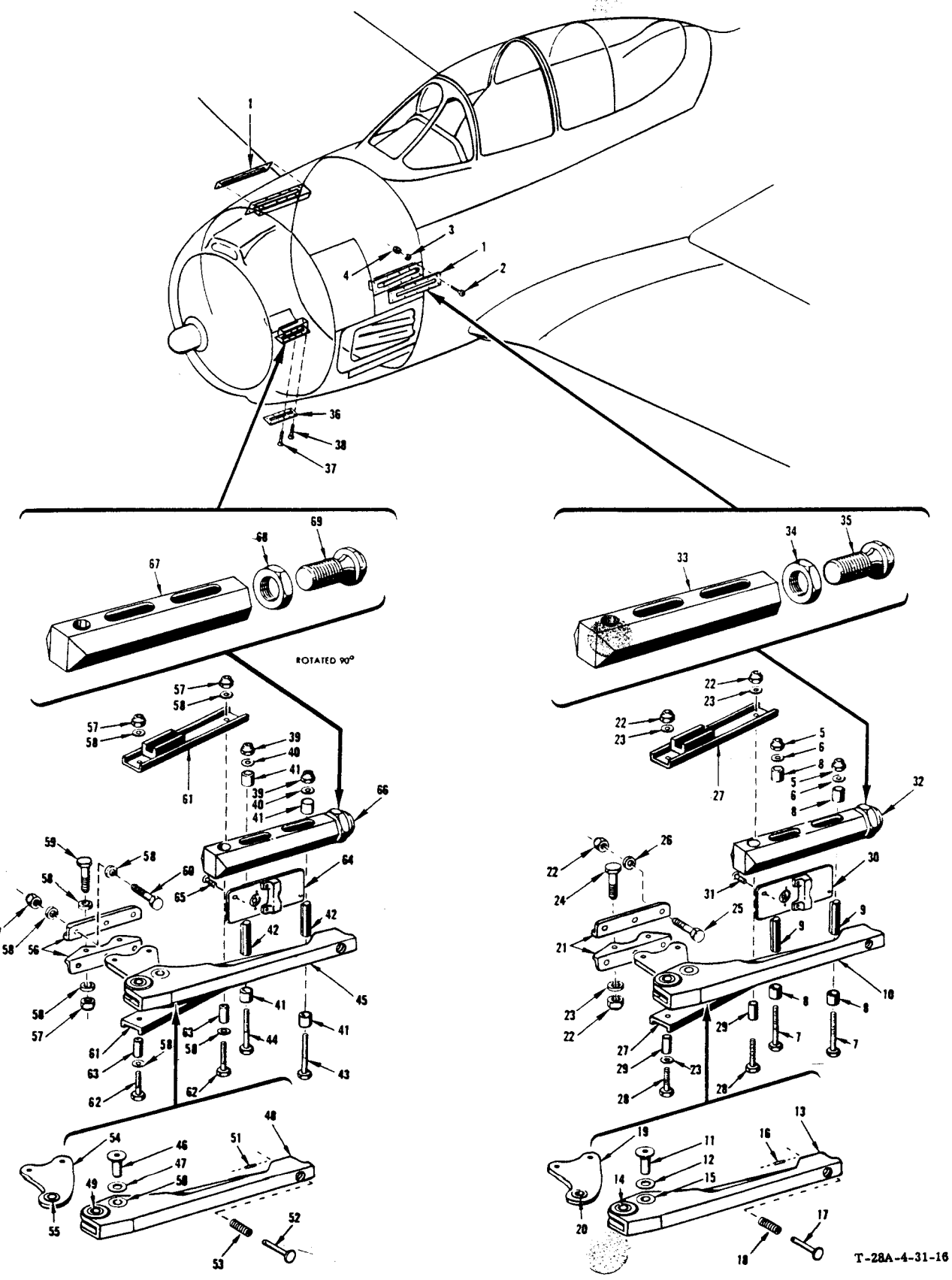


FIGURE 28A - ENGINE SIDE AND LOWER COWL COVER AND LATCH ASSEMBLIES

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
28A			ENGINE SIDE AND LOWER COWL COVER AND LATCH ASSEMBLIES		
	No Number	.	ENGINE SIDE COWL COVER AND LATCH ASSEMBLY (see fig. 24 and 26 for next assy)	NP	
-1	200-315144	. .	DOOR, Engine side cowl latch cover	1	
	ATTACHING PARTS				
-2	AN509-10R8	. .	SCREW	10	
-3	2W1AL13-16-64	. .	WASHER, (North American)	10	
-4	AN365-1032	. .	NUT	10	
	---*---				
-5	AN365-1032	. .	NUT	2	
-6	2W18D10L	. .	WASHER, (North American)	2	
-7	AN3-25A	. .	BOLT	2	
-8	4B19S5-021	. .	BUSHING, (North American)	4	
-9	4B21S3-204	. .	BUSHING, (North American)	2	
-10	159-315216-17	. .	HANDLE ASSEMBLY, Engine cowl latch	1	
-11	159-315234	. . .	PIN, Engine cowl panel cam locking	1	
-12	AN960-616L	. . .	WASHER	2	
-13	159-315217-7	. . .	HANDLE ASSEMBLY, Engine cowl latch	1	
-14	4B19S6-004	. . . .	BUSHING, (North American)	2	
-15	4B19S6-026	. . . .	BUSHING, (North American)	1	
-16	99836	. . .	PIN, Fastener, (United-Carr)	1	
-17	98292-7-.670	. . .	STUD (United-Carr)	1	
-18	200-315273	. . .	SPRING, Compression	1	
-19	159-315207-11	. . .	PLATE ASSEMBLY, Engine cowl latch pivot	1	
-20	4B19S6-009	. . . .	BUSHING, (North American)	1	
-21	159-315206	. .	ANGLE, Engine cowl hinge plate attaching	2	
-22	AN365-428	. .	NUT	10	
-23	2W18D416L	. .	WASHER, (North American)	5	
-24	NAS1304-7	. .	BOLT	2	
-25	NAS1304-5	. .	BOLT	6	
-26	2W18D416	. .	WASHER, (North American)	6	
-27	159-315213	. .	CHANNEL ASSEMBLY, Engine cowl latch link	2	
-28	AN4-14A	. .	BOLT	2	
-29	4B21S4-027	. .	BUSHING, (North American)	2	
-30	200-315275	. .	LOCK ASSEMBLY, Engine cowl latch handle	1	
	ATTACHING PARTS				
-31	NAS221-8	. .	SCREW	2	
	---*---				
-32	159-315371	. .	ROD ASSEMBLY, Engine cowl latch	1	
-33	159-315372	. . .	ROD, Engine cowl latch	1	
-34	159-315377	. . .	NUT, Engine cowl latch	1	
-35	159-315373	. . .	FITTING, Engine cowl latch rod end	1	
	No Number	.	ENGINE LOWER COWL COVER AND LATCH ASSEMBLY (see fig. 28 for next assy)	NP	
-36	200-315252	. .	DOOR, Engine lower cowl panel latch cover	1	
	ATTACHING PARTS				
-37	AN509-10R8	. .	SCREW	8	
-38	AN509-10R9	. .	SCREW	2	
	---*---				
-39	AN365-1032	. .	NUT	2	
-40	2W17-10L	. .	WASHER, (North American)	2	
-41	4B19S5-021	. .	BUSHING, (North American)	4	
-42	4B21S3-204	. .	BUSHING, (North American)	2	
-43	AN3-25A	. .	BOLT	1	
-44	AN3-26A	. .	BOLT	1	
-45	159-315216-15	. .	HANDLE ASSEMBLY, Engine cowl latch	1	
-46	159-315234	. . .	PIN, Engine cowl panel cam locking	1	
-47	AN960-616L	. . .	WASHER	2	
-48	159-315217-11	. . .	HANDLE ASSEMBLY, Engine cowl latch	1	
-49	4B19S6-004	. . . .	BUSHING, (North American)	2	
-50	4B19S6-026	. . . .	BUSHING, (North American)	1	
-51	99836	. . .	PIN, Fastener (United-Carr)	1	
-52	98292-7-.670	. . .	STUD (United-Carr)	1	
-53	200-315206	. . .	SPRING, Compression	1	
-54	159-315207-11	. . .	PLATE ASSEMBLY, Engine cowl latch pivot	1	
-55	4B19S6-009	. . . .	BUSHING, (North American)	1	
-56	159-315206	. .	ANGLE, Engine cowl hinge plate attaching	2	
-57	AN365-428	. .	NUT	10	
-58	2W18-416L	. .	WASHER (North American)	20	
-59	AN4-7A	. .	BOLT (magnetic inspected)	2	
-60	AN4-6A	. .	BOLT (magnetic inspected)	6	
-61	159-315213	. .	CHANNEL ASSEMBLY, Engine cowl latch link	2	
-62	AN4-14A	. .	BOLT (magnetic inspected)	2	
-63	4B21S4-027	. .	BUSHING, (North American)	2	
-64	200-315275	. .	LOCK ASSEMBLY, Engine cowl latch handle	1	
	ATTACHING PARTS				
-65	NAS221-9	. .	SCREW	2	
	---*---				
-66	159-315371	. .	ROD ASSEMBLY, Engine cowl latch	1	
-67	159-315372	. . .	ROD, Engine cowl latch	1	
-68	159-315377	. . .	NUT, Engine cowl latch	1	
-69	159-315373	. . .	FITTING, Engine cowl latch rod end	1	

POWER PLANT AND ENGINE SECTION (Cont)

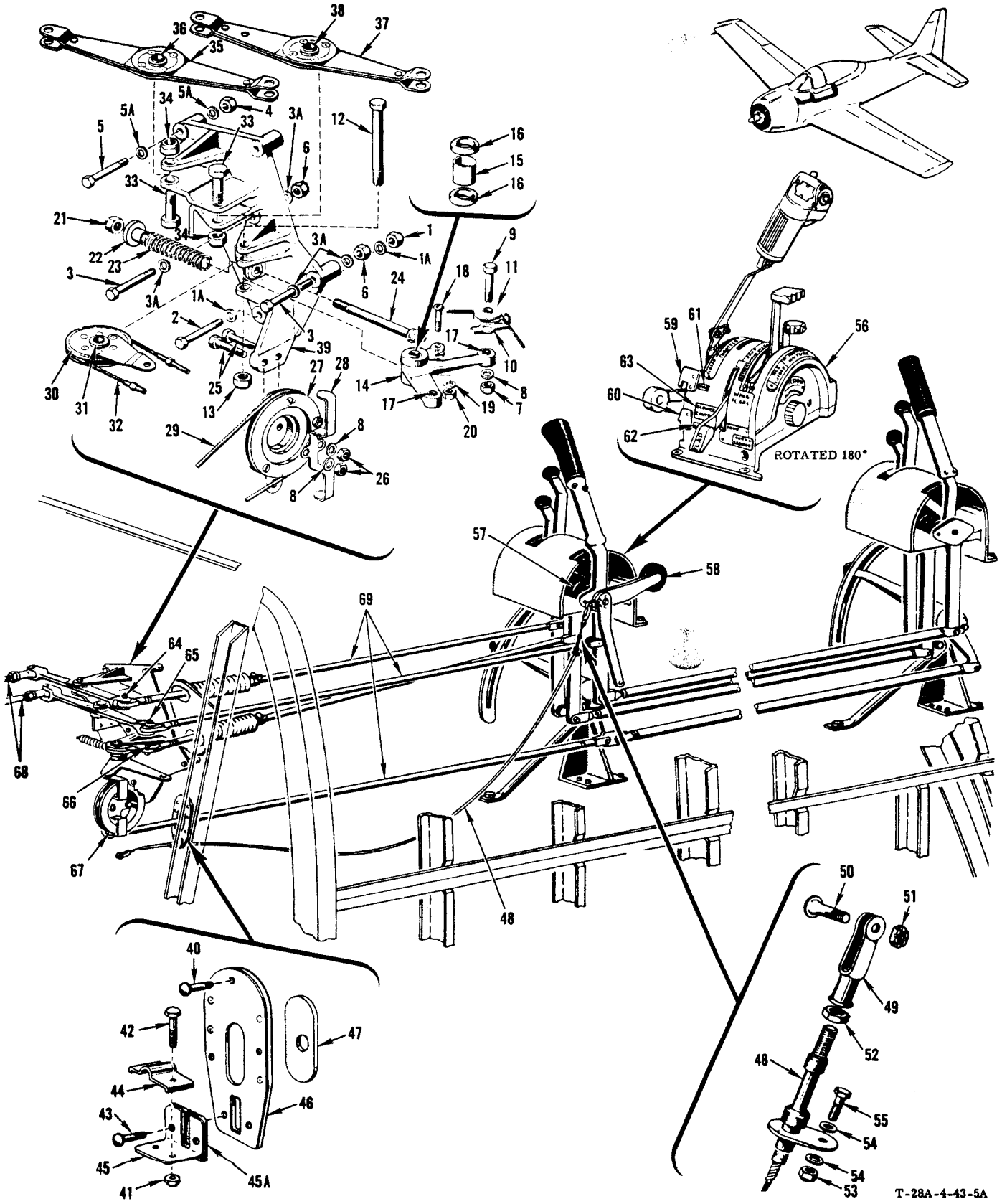


FIGURE 29 - LH FUSELAGE ENGINE CONTROL EQUIPMENT INSTALLATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
29	189-430031		ENGINE CONTROL EQUIPMENT INSTALLATION, Fus LH side (mod)	NP	
	189-430050	*1	. CLUSTER ASSY, Engine control, firewall	1	
	ATTACHING PARTS				

POWER PLANT AND ENGINE SECTION (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
29-1	NAS679A3	NUT	1	
-1A	2W18-10M	WASHER, (North American)	2	
-2	AN3-17A	BOLT	1	
-3	AN5-20A	BOLT	2	
-3A	2W18-516M	WASHER, (North American)	4	
-4	NAS679A4	NUT	2	
-5	AN4-17A	BOLT	2	
-5A	2W18-416M	WASHER, (North American)	4	
-6	NAS679A5	NUT	2	
	---*---			
-7	NAS679A4	. NUT	2	
-8	2W18-416M	. WASHER, (North American)	4	
-9	AN4-14A	. BOLT	2	
-10	200-43038	. GUARD, Engine control propeller governor firewall idler	2	
-11	AN219-2	. PULLEY	2	
-12	AN4-30A	. BOLT	1	
	2W18-416M	. WASHER, (North American)	2	
-13	AN365-428	. NUT	1	
-14	200-43039	. BRACKET ASSY, Eng cont propeller governor firewall idler	1	
-15	4S6-4-0.688	. . SPACER, (North American)	1	
-16	AN201K4A	. . BEARING	2	
-17	4B19S3-006	. . BUSHING, (North American)	2	
-18	AN23-12	. BOLT	1	
-19	AN960D10L	. WASHER	1	
-20	AN320-3	. NUT	1	
-21	AN310-4	. NUT	1	
-22	189-430550	. RETAINER, Engine control propeller governor idler spring	1	
-23	200-43021	. SPRING, Compression die	1	
-24	AN43-42	. BOLT	1	
-25	AN4-11A	. BOLT	2	
-26	AN365-428	. NUT	2	
-27	4L1966	. BELLCRANK, Self-locking control (Hanson-Lynn)	1	
-28	159-43093	. GUARD, Eng cont carburetor air irreversible pulley cable	1	
-29	200-43078	. CABLE ASSEMBLY, Engine carburetor air control aft	1	
-30	200-43045	. PULLEY ASSEMBLY, Engine propeller control firewall drive	1	
-31	AN218P4	. . BEARING	1	
-32	200-43047	. CABLE ASSEMBLY, Engine propeller governor.	1	
-33	AN4-13A	. BOLT	2	
	2W18-416M	. WASHER, (North American)	4	
-34	AN365-428	. NUT.	2	
-35	159-43047	. BELLCRANK ASSEMBLY, Engine control mixture	1	
-36	AN218-4	. . BEARING	1	
-37	199-43016	. BELLCRANK ASSEMBLY, Eng control throttle idler firewall	1	
-38	AN218P4	. . BEARING	1	
-39	159-43046	. BRACKET, Engine control firewall idler bellcrank	1	
-40	7S14-832-10A	SCREW (North American)	3	
-41	NAS679A3	NUT	2	
-42	AN3-4A	BOLT	2	
-43	7S14-832-13A	SCREW (North American)	2	
-44	200-43053	CLAMP, Engine supchg cont firewall sup	1	
-45	200-43052	CLIP, Engine supchg cont firewall sup	1	
-45A	200-43057	SEAL, Engine carb cont, air rod firewall.	1	
-46	200-43061	RETAINER ASSY, Engine carb cont, rod firewall seal	1	
-47	159-43127	SEAL, Engine carb cont air rod firewall	1	
-48	SA4307	CABLE ASSY, (American Chain and Cable)	1	
-49	200-43058	CLEVIS, Engine supchg flex control	1	
-50	AN23-10	BOLT	1	
-51	AN320-3	NUT	1	
-52	AN315-3	NUT	1	
-53	NAS679A3	NUT	1	
-54	2W18-10M	WASHER (North American)	2	
-55	AN3-4A	BOLT	1	
-56	260-43005-101	QUADRANT ASSY, Engine control fwd	1	
	ATTACHING PARTS			
	AN3-5A	BOLT	4	
	2W18-10M	WASHER, (North American)	4	
	---*---			
-57	QY254-2	. . HUB ASSY	1	
-58	QY252-2	. . LEVER ASSY	1	
	AN365-428	. . NUT	1	
	AN960-416	. . WASHER	1	
-59	260-43005-3	. . STOP-Low blower	1	
-60	260-43005-5	. . STOP-High Blower	1	
-61	260-43005-7	. . DECAL, (low)	1	
-62	260-43005-9	. . DECAL, (high)	1	
-63	260-43005-11	. . DECAL, (blower control)	1	
-64	AN4-11A	BOLT (bolt head on underside)	1	
-65	AN4-11A	BOLT	1	
-66	AN4-10A	BOLT (bolt head on underside)	1	
-67	NAS222-22	SCREW (screw head on outbd side)	1	
	2W18-416M	WASHER, (North American)	8	
	NAS679A4	NUT	4	
-68	For these rods see figure 21		Ref	
-69	For these rods see figure 230, Section II			

*1 189-430050 is intrch wth 200-43050.

POWER PLANT AND ENGINE SECTION (Cont)

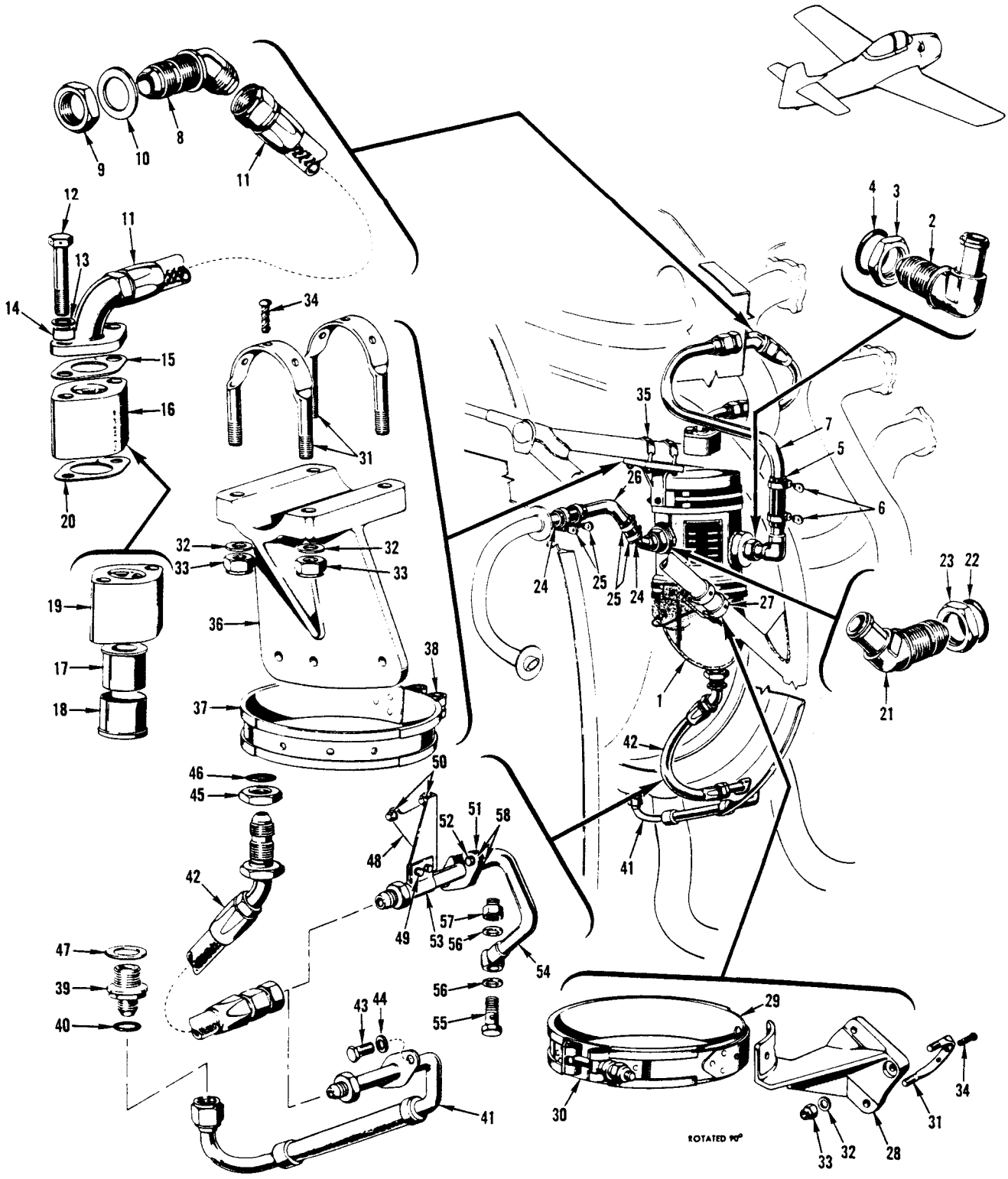


FIGURE 30 - INVERTED FLIGHT ENGINE OIL BREATHER EQUIPMENT INSTALLATION

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
30	200-47016		OIL BREATHER EQUIPMENT INSTALLATION, Inverted flight engine (see figure 15 for next assembly)	NP	
-1	200-47155		. TANK ASSEMBLY, Inverted flight oil	1	
-2	AN838-16D		. ELBOW	1	
-3	AN924-16D		. NUT	1	
-4	AN6290-16		. GASKET	1	
-5	3H2-16-15		. HOSE, (North American)	1	
-6	AN737TW46		. CLAMP	2	
-7	200-47801-7		. LINE ASSEMBLY, Fixed cowling to inverted flight oil tank	1	
-8	AN837-16D		. ELBOW	1	
-9	AN924-16D		. NUT	1	
-10	2W18-2116		. WASHER, (North American)	1	
-11	950420-16-16-13/16		. HOSE ASSEMBLY, (Aeroquip)	1	
-12	MS20074-06-034		. BOLT	2	
-13	2W1-24-56-63		. WASHER, (North American)	2	
-14	4B21S6-009		. BUSHING, (North American)	2	
-15	200-47158		. GASKET, Engine oil breather inverted flight check valve	1	
-16	159-47163-11		. VALVE ASSEMBLY, Engine oil breather inverted flight	1	
-17	159-47164		. . SLEEVE, Engine breather inverted flight valve	1	
-18	159-47165		. . BUSHING, Engine breather inverted flight valve	1	
-19	159-47166-3		. . BODY, Engine inverted flight oil breather valve	1	
-20	159-47146		. GASKET, Inverted flight engine breather check valve	1	
-21	AN839-16D		. ELBOW	1	
-22	AN6290-16		. GASKET	1	
-23	AN924-16D		. NUT	1	
-24	3H2-16-15		. HOSE, (North American)	2	
-25	AN737TW46		. CLAMP	4	
-26	200-47801-109		. TUBE, Inverted flight oil tank to firewall	1	
-27	200-47159		. SUPPORT ASSEMBLY, Inverted flight oil tank lower	1	
-28	200-47160		. . SUPPORT, Inverted flight oil tank lower	1	
	159-47169		. . STRAP ASSEMBLY, Engine inverted flight breather oil tank lower	1	
-29	159-47169-3		. . . PAD, Engine inverted flight breather oil tank lower strap assembly (altered from AN8031-8-19-1/2)	1	
-30	159-47169-5		. . . STRAP, Engine inverted flight breather oil tank lower strap assembly (altered from Marman 15175)	1	
-31	5B6-24		. BOLT, (North American)	4	
-32	2W18-416M		. WASHER, (North American)	8	
-33	AN365-428		. NUT	8	
-34	AN535-4-6		. SCREW	2	
-35	200-47156		. SUPPORT ASSEMBLY, Inverted flight on tank upper	1	
-36	200-47157		. . SUPPORT, Inverted flight oil tank upper	1	
	159-47169		. . STRAP ASSEMBLY, Engine inverted flight breather oil tank upper	1	
-37	159-47169-3		. . . PAD, Engine inverted flight breather oil tank upper strap assembly (altered from AN8031-8-19-1/2)	1	
-38	159-47169-5		. . . STRAP, Engine inverted flight breather oil tank upper strap assembly (altered from Marman 15175)	1	
-39	200-47171	*2	. FITTING, Inverted flight oil tank drain connection	1	
-40	AN900-20	*2	. GASKET	1	
-41	59570	*2	. HOSE ASSEMBLY, (Titeflex)	1	
-42	950424-12-22-1/8		. HOSE ASSEMBLY, (Aeroquip)	1	
-43	AN3-4	*2	. BOLT	2	
-44	2W17-10L	*2	. WASHER, (North American)	2	
-45	AN924-12D		. NUT	1	
-46	AN6290-12		. GASKET	1	
-47	MS29513-24	*2	. PACKING	1	
-48	226-47019	*1	. BRACKET ASSEMBLY, Inverted flight oil tank drain line	1	
-49	AN3-4A	*1	. BOLT	2	
	2W1-13-20-32	*1	. WASHER, (North American)	2	
-50	2W1G25-20-16	*1	. WASHER, (North American)	2	
-51	226-47016	*1	. SEAL, Inverted flight engine oil breather	1	
-52	AN3-4A	*1	. BOLT	2	
	2W17-10M	*1	. WASHER, (North American)	4	
	AN365-1032	*1	. NUT	2	
-53	226-47020	*1	. CLAMP, Inverted flight oil tank drain line	1	
-54	226-47021	*1	. TUBE ASSEMBLY, Inverted flight engine oil breather	1	
-55	226-47014	*1	. BOLT, Inverted flight oil tank drain tube	1	
-56	AN900-14	*1	. GASKET	2	
-57	226-47015	*1	. ADAPTER, Inverted flight oil tank drain line to engine	1	
-58	226-47017	*1	. RETAINER, Inverted flight engine oil breather seal	1	

Items marked *1 when used together supersede items marked *2 when used together

POWER PLANT AND ENGINE SECTION OIL SYSTEM (Cont)

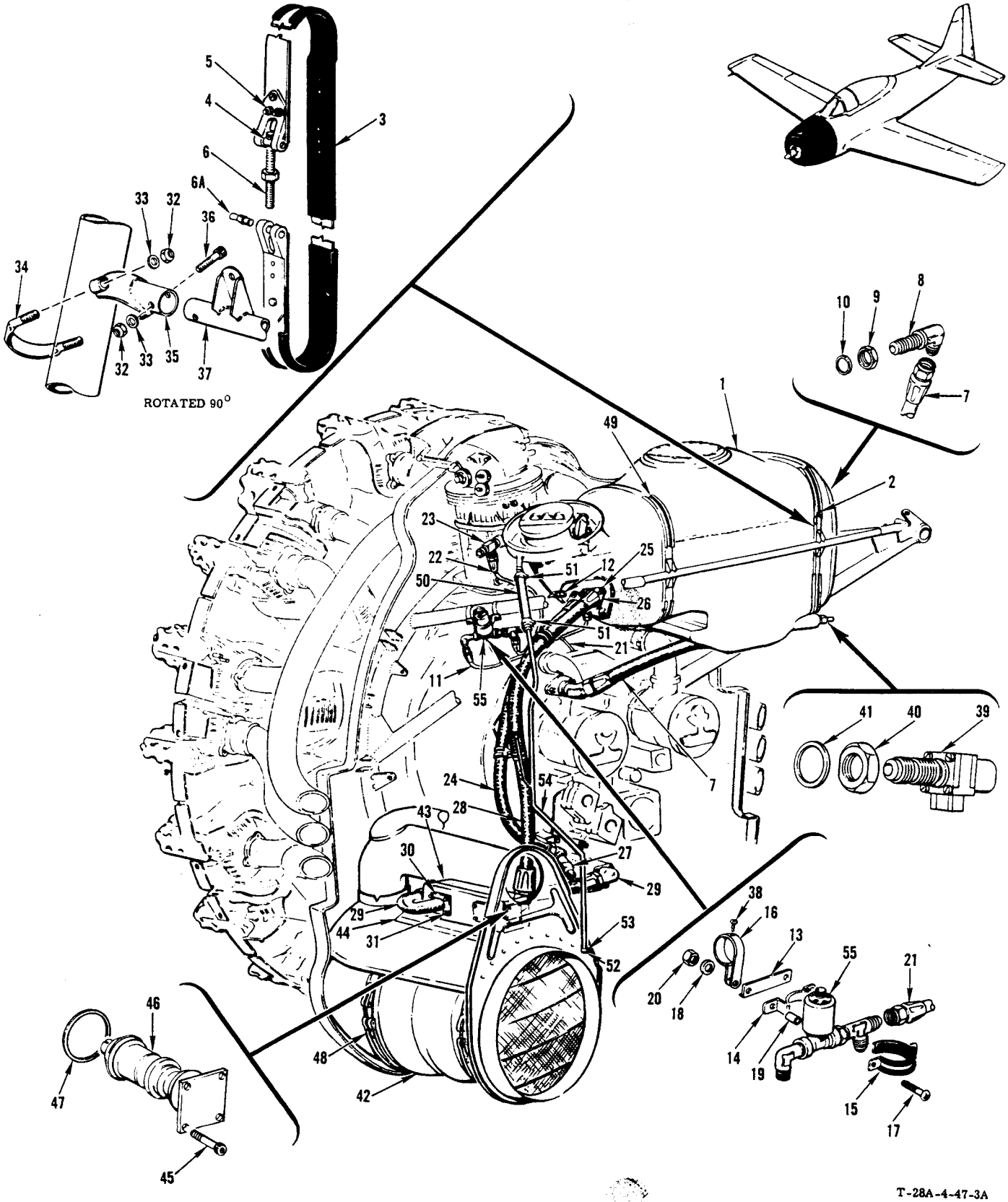


FIGURE 31 - OIL SYSTEM EQUIPMENT INSTALLATION

POWER PLANT AND ENGINE SECTION OIL SYSTEM (Cont)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
31		OIL SYSTEM EQUIPMENT INSTALLATION		
	189-470040	. OIL SYSTEM EQUIPMENT INSTALLATION, Engine section (see fig. 15 for next assy)	NP	
-1	189-470003	. . TANK ASSEMBLY, Oil tank retaining (see fig. 32 for breakdown)	1	
-2	219-47013	. . STRAP ASSEMBLY, Oil tank retaining	1	
-3	219-47013-7	. . . PAD, Oil tank retaining strap	1	
-4	NAS25-4R	. . . TRUNNION, Tank strap threaded	1	
-5	AN509-10R8	. . . SCREW	2	
	2W18-10M	. . . WASHER, (North American)	2	
	NAS1291-3	. . . NUT	2	
-6	NAS27-4-22	. . TURNBUCKLE, Tank strap	1	
-6A	NAS25-4L	. . TRUNNION, Tank strap threaded	1	
-7	MS28741-16-0306	. . HOSE ASSEMBLY, (oil tank vent to engine)	1	
-8	AN833-16D	. . ELBOW	1	
-9	AN924-16D	. . NUT	1	
-10	MS28778-16	. . PACKING	1	
-11	MS28741-4-0120	. . HOSE ASSEMBLY, (oil dilution valve to oil tank)	1	
-12	AN822-4	. . ELBOW	1	
-13	159-47039	. . SUPPORT, Oil dilution solenoid	1	
-14	159-47055	. . BRACKET, Oil dilution solenoid valve mounting	1	
-15	750-21-2-10	. . CLIP, (Adel Precision)	1	
-16	AN742D23	. . CLAMP	2	
-17	NAS221-12	. . SCREW	2	
-18	2W18-10M	. . WASHER, (North American)	2	
-19	NAS43-3-8	. . SPACER	2	
-20	NAS679A3	. . NUT	2	
-21	MS28741-4-0100	. . HOSE ASSY, (oil dilution valve to heat and vent purifier)	1	
-22	MS28741-4-0240	. . HOSE ASSY, (carburetor to oil dilution valve)	1	
-23	159-47033	. . TEE, Fuel pressure and oil dilution restrictor	1	
-24	950377-24-36-1/2	. . HOSE ASSY, (oil tank to engine) (Aeroquip)	1	
-25	AN5H6A	. . BOLT	6	
	2W17-516	. . WASHER, (North American)	6	
-26	AN4171-20	. . GASKET	1	
-27	29802	. . DRAIN VALVE, Fuel (Koehler Aircraft)	1	
	2W1K65-56-32	. . WASHER, (North American)	AR	
	2W1K65-56-49	. . WASHER, (North American)	AR	
	2W1K65-56-65	. . WASHER, (North American)	AR	
	2W1K65-56-86	. . WASHER, (North American)	AR	
-28	9574-20-35	. . HOSE ASSY, (oil cooler to oil tank) (Aeroquip) (interchangeable with Stratoflex 111-624-20S35)	1	
	AN4171-20	. . GASKET, (hose to oil tank attach)	1	
	AN4171-32	. . GASKET, (hose to oil cooler attach)	1	
	NAS679A5	. . NUT, (hose to oil cooler attach)	4	
-29	185-950367-16-20	. . HOSE ASSY, (engine to oil cooler)(Aeroquip)	1	
-30	AN4172-32	. . GASKET	1	
-31	NAS679A5	. . NUT	4	
-32	NAS679A4	. . NUT	8	
-33	2W18-416	. . WASHER, (North American)	8	
-34	200-47141	. . BOLT, Oil tank support tube front	2	
-35	200-47108	. . FITTING ASSY, Oil tank support front	2	
-36	AN4-13A	. . BOLT	2	
-37	200-47063	. . SUPPORT ASSY, Oil tank front	1	
-38	AN530-4R4	. . SCREW	1	
-39	8101-3	. . VALVE, Fuel drain (Koehler Aircraft)	1	
-40	AN924-8D	. . NUT	1	
-41	AN6290-8	. . GASKET	1	
-42	72139	. . COOLER	1	
-43	AN4103-2	. . VALVE ASSY, (interchangeable with Airesearch 17589-160-13 and Clifford 46800-101)	1	
-44	32120	. . GASKET, (between oil cooler and valve assy)	1	
-45	58495	. . SCREW	1	
-46	73855-7	. . THERMAL ASSY	1	
-47	46744	. . GASKET	1	
-48	200-47051	. . FILLER, Oil cooler strap	2	
-49	199-47102	. . STRAP ASSY, Oil tank retaining	1	
	200-47031	. OIL SYSTEM, Equip, instl fus sect (see figure 9 for next assy)	NP	
-50	3H2-8-56	. . HOSE	1	
-51	A3122-14-1	. . CLAMP	2	
-52	A3122-12-1	. . CLAMP	1	
-53	200-47032	. . GROMMET, Oil tank scupper drain	1	
-54	200-47802	. . LINE ASSY, Oil tank scupper drain	1	
-55	159-47071	VALVE ASSY, Oil dilution solenoid (see fig. 247, Section II)	Ref	

POWER PLANT AND ENGINE SECTION OIL SYSTEM (Cont)

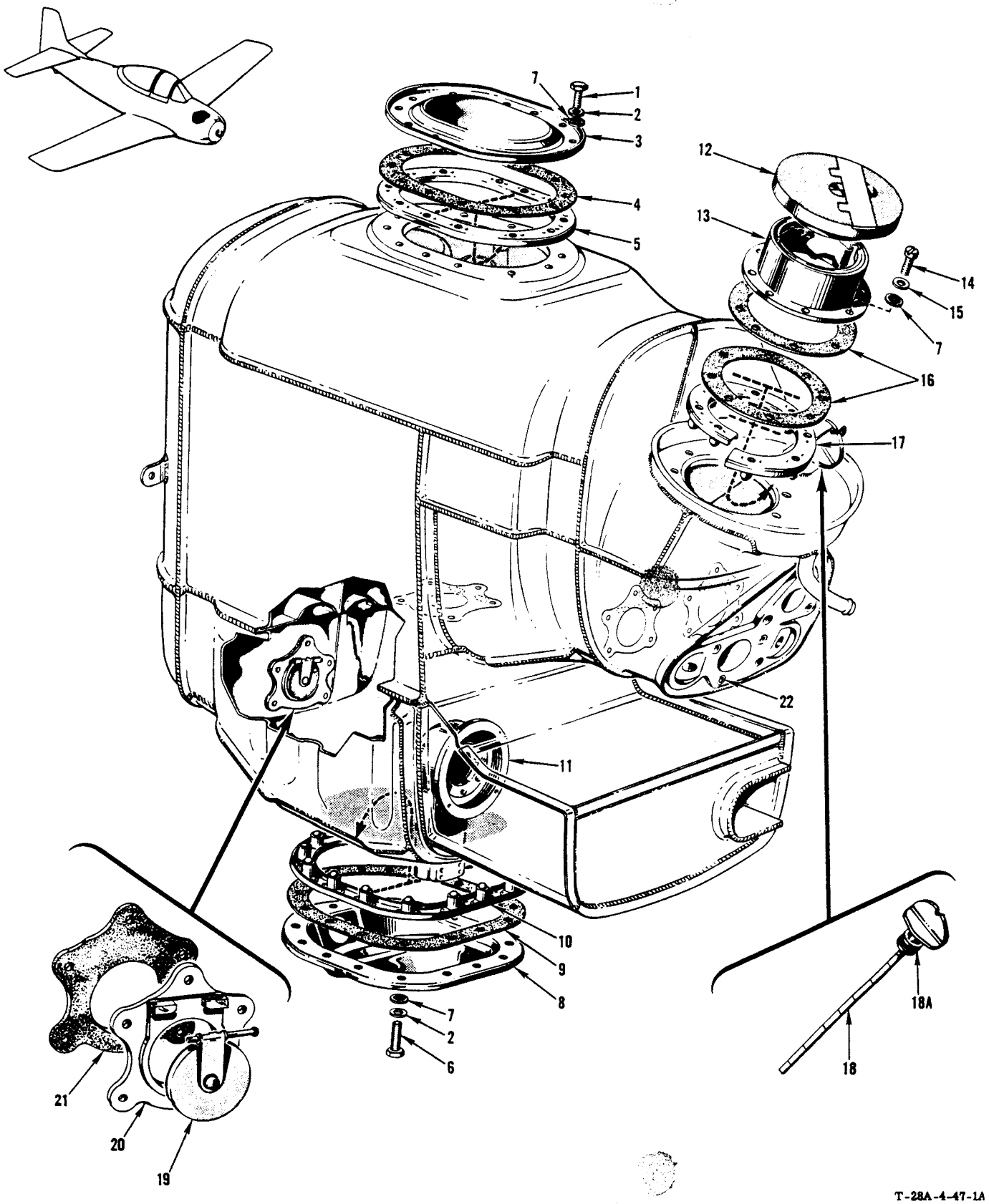


FIGURE 32 - COMPLETE OIL TANK ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
32	189-470003	TANK ASSEMBLY, Complete oil (see fig. 31 for next assy)	Ref	
-1	AN3H6A	. BOLT	12	
-2	2W18-10	. WASHER, (North American)	27	
-3	171-47077	. COVER, Oil tank top	1	
-4	159-47080	. GASKET, Oil tank top cover	2	
-5	159-47079	. RING ASSY, Oil tank top cover locking	1	
-6	AN3H6A	. BOLT	15	
-7	800-001-10 OS	. LOC-O-SEAL, (Wolfe, Franklin C.)	35	
-8	174-47064	. SUMP, Oil tank	1	
-9	159-47070	. GASKET, Oil tank sump	2	
-10	159-47065	. RING ASSY, Oil tank sump locking	1	
-11	159-47059	. TUBE ASSY, Oil tank swivel complete	1	
	40B1718	. CAP AND ADAPTER ASSY, Fuel tank filler removable type	1	
-12	39B5435	. . CAP ASSY, Fuel tank filler	1	
-13	39B5294	. . ADAPTER ASSY, Fuel tank filler cap	1	
-14	AN501A10-10	. SCREW	8	
-15	2W18-10	. WASHER, (North American)	8	
-16	120-48135	. GASKET, Fuel wing center section filler adapter	2	
-17	144-47055	. RING ASSY, Oil tank filler cap adapter locking	1	
-18	159-47048-11	. ROD ASSY, Oil level indicator	1	
	159-47050-3	. . ROD, Oil level indicator	1	
	117-47126	. . CAP, Oil level indicator rod	1	
-18A	AN6227-10	. . PACKING	1	
-19	1211-517149	. VALVE, Swing check size	4	
	1211-517140	. SHAFT, Hinge pin	4	
	200-47173	. SPRING, 1.125 dia swing check valve light	3	
-20	159-47091	. RETAINER, Oil tank bulkhead flapper valve	4	
-21	159-47049	. GASKET, Oil tank bulkhead flapper valve retainer	4	

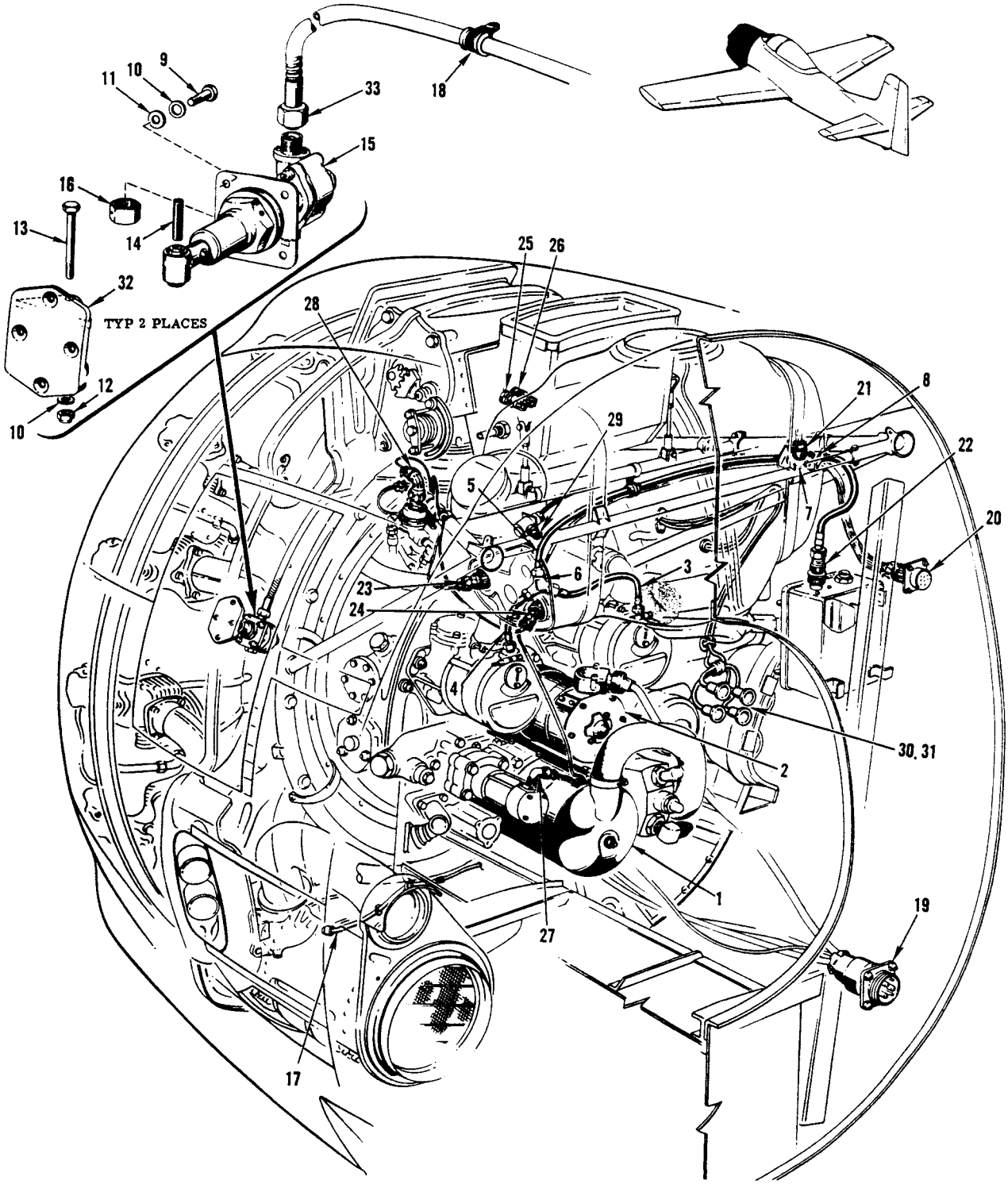


FIGURE 33. ENGINE SECTION ELECTRICAL EQUIPMENT INSTALLATION

POWER PLANT ELECTRICAL SYSTEM

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
33	189-540040	ELECTRICAL EQUIPMENT INSTL, Engine section (mod) (see figure 15 for next assembly)	NP	
-1	P1	. GENERATOR, (Westinghouse)	1	
-2	1416-42	. STARTER, (Bendix)	1	
-3	159-54132-3	. CONDUIT ASSY, Engine ignition electric magneto	1	
-4	159-54132-5	. CONDUIT ASSY, Engine ignition electric magneto	1	
-5	159-54133-3	. CONDUIT ASSY, Engine ignition electric magneto	1	
-6	AN3250B1	. Connector	1	
-7	2209-4	. DUST CAP, (Cannon)	1	
-8	159-54134	. BRACKET, Ignition plug grounding receptacle	1	
-9	AN4-5A	. BOLT	8	
-10	2W17-416L	. WASHER, (North American)	10	
-11	2W17-416	. WASHER, (North American)	8	
-12	NAS679A4	. NUT	2	
-13	AN4-20A	. BOLT	2	
-14	159-31585	. SPACER, Engine cowl flap actuator attaching	2	
-15	M6280	. SCREW JACK, (Air Associates)	2	
-16	M896	. CAP, (Air Associates)	2	
-17	189-540038	. WIRING DIAGRAM, Engine chip detector (mod)	1	
-18	174-31557	. FAIRLEAD, Engine cowl flap actuator attaching	4	
	AN742-11	. CLAMP	2	
	NAS221-8	. SCREW	2	
	200-5-002-101	. ELECTRICAL EQUIPMENT INSTL, Engine section	1	
-19	MS25183-36-3P	. . PLUG	1	
-20	MS25183-22-14P	. . PLUG	1	
-21	AN3102A14S9P	. . PLUG, (magneto stowage)	1	
-22	AN3106A14S9S	. . RECEPTACLE, (induction vibrator box disc.)	1	
	MS29513-14	. . PACKING	1	
-23	MS25183-12S3S	. . PLUG, (oil temp bulb disc.)	1	
-24	MS25183-12S3S	. . PLUG, (oil temp bulb disc.)	1	
-25	MS25183-12S3S	. . PLUG, (carb. air temp bulb disc.)	1	
-26	MS25183-12S3S	. . PLUG, (carb. air temp bulb disc.)	1	
-27	MS25183-10SL3S	. . PLUG, (tach generator disc.)	1	
-28	MS25183-8S1S	. . PLUG, (Oil dilution solenoid valve disc.)	1	
-29	MS25183-12S4S	. . PLUG, (engine primer solenoid valve disc.)	1	
-30	159-51009-10	LEAD ASSY, Cyl head temp thermocouple (to No. 3 cylinder) (see figure 251, Section II)	Ref	
-31	159-51009	LEAD ASSY, Cyl head temp thermocouple (to No. 5 cylinder) (see figure 251, Section II)	Ref	
-32	159-315160	FITTING, Engine cowl flap actuator attaching (see figure 237 Section II)	Ref	
-33	M4084M1	FLEXIBLE DRIVE SHAFT, (Air Associates)(interchangeable with Air Associates M4241-3400) (see Figure 252 Section II)	Ref	

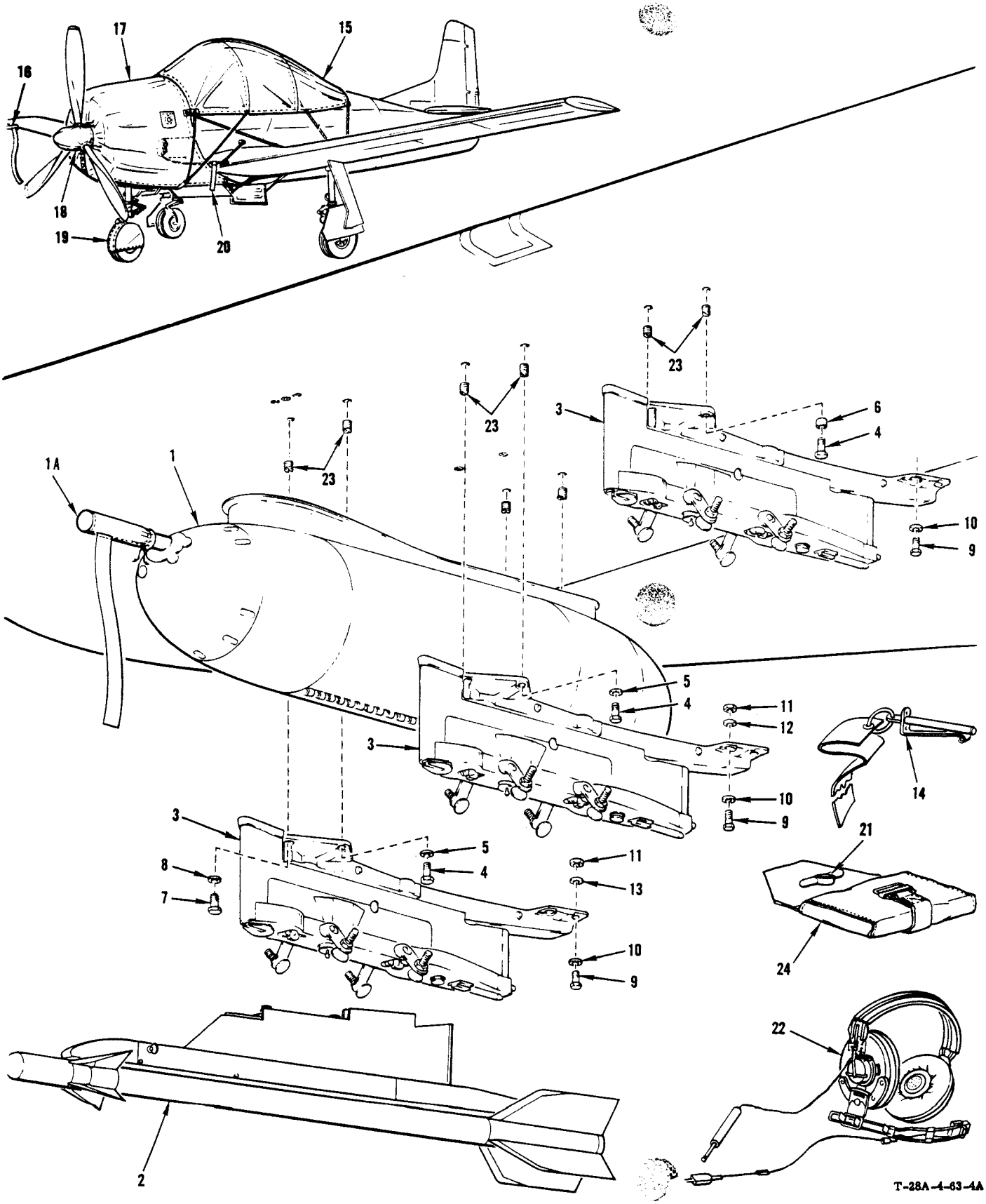
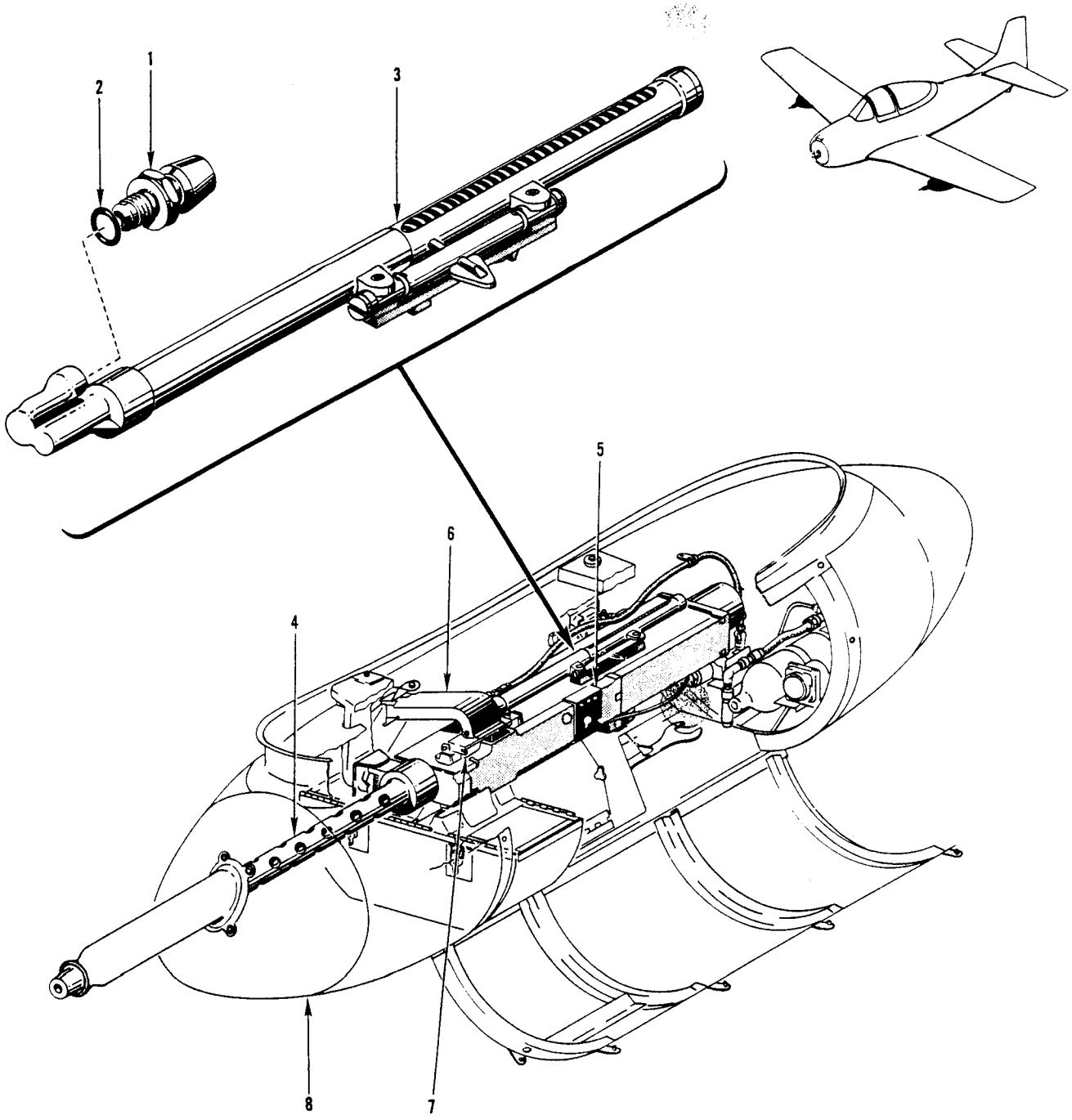


FIGURE 34 - LOOSE EQUIPMENT DATA INSTALLATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
34	189-530075	DATA INSTALLATION, Loose equipment (modification	NP	
-1	189-610001	. GUN POD INSTALLATION, (see fig. 35 for bkdn)	NP	
-1A	E11102	. GUN COVER ASSY.	1	
-2	189-630002	. ARMAMENT INSTALLATION, Missile pylon (modification) (see fig. 40 for bkdn)	NP	
	189-630001	. PYLON INSTALLATION, (modification) (see fig. 36 for additional bkdn)	NP	
-3	252-63015	. . PYLON ASSY, Complete (mod) (see fig. 36 for bkdn)	1	
-4	252-63025	. . BOLT, Wing adapter attaching	6	
-5	2W18-816	. . WASHER, (North American)	4	
-6	2W1AL33-28-312	. . WASHER, (North American)	2	
-7	AN5-13A	. . BOLT,	2	
-8	2W18-516	. . WASHER, (North American)	2	
-9	AN4-14A	. . BOLT	6	
-10	2W1AL18-20-63	. . WASHER, (North American)	6	
-11	NAS679A4	. . NUT	4	
-12	2W18-416	. . WASHER, (North American)	2	
-13	2W1AL17-16-344	. . WASHER, (North American)	2	
	SHIPPED UNDER SEPARATE COVER			
	192-630012	. PYLON ASSY, Aero 3A trim & adjustment	1	Print
	11-75A501	. DATA SHEETS, NAVAER (GFAE)	1	
	11-75A18	. HANDBOOK, NAVAER bomb rack & rocket launcher (GFAE)	1	
	58A154D26	. PIN ASSEMBLY, Safety (GFAE)	6	
	58A154B10	. ADAPTER, Piston ring (GFAE)	1	
	58A154B6	. COMPRESSOR, Piston ring (GFAE)	1	
	252-63017	. DIAGRAM, Bore sight target	1	
	E2674-11	. WRENCH, Aero 15-A bomb rack	1	
	55A82C130	. EXTRACTER, Tool assembly (GFAE)	1	
	50A70C92	. SCRIBER ASSEMBLY, (GFAE)	1	
	50A70B77	. ADAPTER, (GFAE)	2	
	55A82C160	. BAR, Hoisting (GFAE)	6	
	T457	. RINGSIGHT ASSY, Fixed gun boresight target aligning	1	
	T456	. PEEPSIGHT ASSY, Fixed gun boresight target aligning	1	
	252-63014	. AERO 15C-1 BOMB RACK & ROCKET LAUNCHER, Trim and adjustment	1	Print
	STOWED IN BAGGAGE COMPARTMENT			
	189-710052	. CRYSTALS, AN/ARC3 radio receiver & transmitter	1	B
	189-710051	. CRYSTALS, AN/ARC5 receiver & transmitter	1	D
-14	E1773	. PIN, Safety lock	3	
-15	174-73005	. COVER ASSY, Cockpit enclosure	1	
-16	109-73076	. COVER, Pitcot head	1	
-17	E11101-3	. COVER, Engine	1	
-18	E11101-5	. COVER, Prop hub	1	
-19	E11103	. COVER, Nose wheel tire, assy of	1	
-20	E11104-1	. PLUG, Engine exhaust & heater LH, assy of	1	
	E11104-2	. PLUG, Engine exhaust & heater RH, assy of	1	
-21	E1378	. FITTING, Jacking & mooring	3	
	STOWED IN DATA CASE (LOCATED IN BAGGAGE COMPARTMENT)			
	No Number	. RECORD, Technical instructions compliance (AF form DD829-1) (GFAE)	1	
	No Number	. RECORD, Technical instructions compliance (AF form DD829) (GFAE)	1	
	No Number	. RECORD, Aircraft inventory (AF form DD780) (GFAE)	1	
	No Number	. ENVELOPES & INVOICES, (AF forms 15 & 15A) (GFAE)	1	
	STOWED IN MAP CASE			
	T.O.1T-28A-1	. HANDBOOK, Flight manual (GFAE)	1	
	STOWED IN FLIGHT REPORT HOLDER			
	No Number	. REPORT, Flight & maintenance record (AF form 781) (GFAE)	1	
	STOWED IN PILOT'S DELIVERY ENVELOPE			
-22	No Number	. HEADSET & MICROPHONE (H78/AIC) (Signal Corp. No 2B800-78) (S52D2208) (GFAE)	2	
-23	159-13334-3	PLUG, Gun, bomb assy & wing tank fittings (see fig. 13 Section II)	Ref	
-24	E1377	BAG ASSY, Jacking & mooring (see fig. 253, Section II)	Ref	

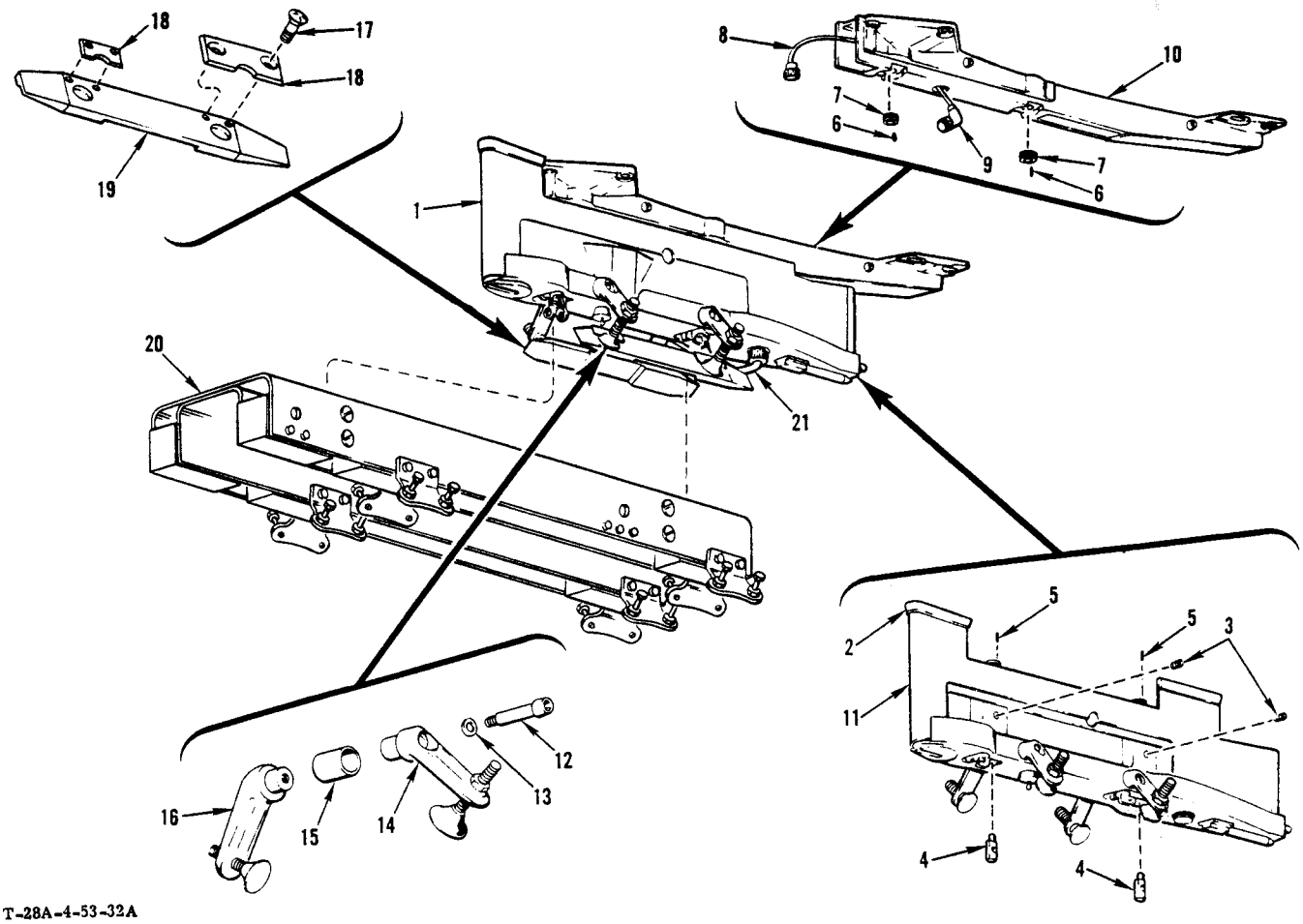
LOOSE EQUIPMENT (Cont)



T-28A-4-53-31A

FIGURE 35 - GUN POD INSTALLATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
35	189-610001	GUN POD INSTALLATION, (modification) (see fig. 34 for next assy)	NP	
-1	801485	. OUTLET ASSEMBLY, Quick disconnect (Walter Kidde)	1	
-2	AN6290-3	. GASKET	1	
-3	890100	. GUN CHARGER, Hold back (type B1) (Walter Kidde) (GFAE)	1	
-4	No Number	. GUN, Machine caliber .50 (type M3) (AFF dwg. No. H-6R4353) (GFAE)	1	
-5	No Number	. HEATER ASSY, Elec gun (type J-) (Spec 33-24946) (AAF dwg No. 44B25259) (GFAE)	1	
-6	159-61006	. CHUTE ASSY, Package gun link ejection	1	
-7	3239	. ADAPTER ASSY, Link chute (GFAE)	1	
	7313328	. PIN, (Army Ordnance Dwg)	1	
-8	174-61001	. GUN PACKAGE ASSEMBLY, (see fig. 37 for bkdn)	1	



T-28A-4-53-32A

FIGURE 36 - COMPLETE PYLON ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
36		COMPLETE PYLON ASSEMBLY		
-1	252-63015	. PYLON ASSY, Complete (mod) (see fig. 34 for next assy)	Ref	
-2	252-63015-3	. . SEAL, Pylon assy (altered from GFAE 55A82A158)	1	
-3	58A154B7	. . SCREW, Set (GFAE)	2	
	MS35339-41	. . WASHER	2	
-4	58A154B9	. . PLUG, Hex (GFAE)	2	
-5	58A154B8	. . INSERT, Nylon (GFAE)	6	
	252-63021-201	. . ADAPTER BEAM, Under wing complete, assy of (mod) (use 252-63021 until exh)	1	
	252-63021	. . ADAPTER BEAM, Under wing complete, assy of (mod) (when exh use 252-63021-201)	1	
-6	NAS5610-4-6	. . . PIN	2	
-7	252-63019	. . . INSERT, Adapter beam threaded	2	
	252-54013-41	. . . HARNESS, Armament Wiring	1	
-8	MS25183-20-27P	. . . . CONNECTOR	1	
-9	MS25183-20-27S	. . . . CONNECTOR	1	
-10	252-63020-21	. . . ADAPTER BEAM, Under wing, assy of (on 252-63021-201)	1	
	252-63020-11	. . . ADAPTER BEAM, Under wing, assy of (on 252-63021)	1	
	252-63014-11	. . BOMB RACK & LAUNCHER, Aero 15C1 trim & adjustment	1	
-11	58A154J12	. . . BOMB RACK & LAUNCHER, Aero 15C1 (R1095 BUA 58A154J12) (intrch wth Aero 15C, R1095 BUA 58A154R1) (GFAE)	1	
-12	NAS148-44	. . . BOLT	2	
-13	AN935-816L	. . . WASHER	2	
-14	58A154B76	. . . BRACE ASSY, Sway LH (GFAE)	2	
-15	58A82A249	. . . SPACER, (GFAE)	2	
-16	58A154B75	. . . BRACE ASSY, Sway RH (GFAE)	2	
	189-630001	PYLON INST, (mod) (see fig. 34 for next assy and additional breakdown)	NP	
-17	NK509-10-10	. . SCREW, (Nylok)	8	
-18	249-63077	. . PLATE, Bomb rack sway brace adapter attaching	4	
-19	249-63075	. . ADAPTER, Bomb rach sway brace	2	
-20	B37K1	. . BOMB RACK, Practice bomb container (Government furnished-government installed)	1	
	189-540113-61	. . WIRING DIAGRAM, Electrical armament control (mod)	1	
-21	AN3106-18-1P	. . . CONNECTOR	1	

LOOSE EQUIPMENT (Cont)

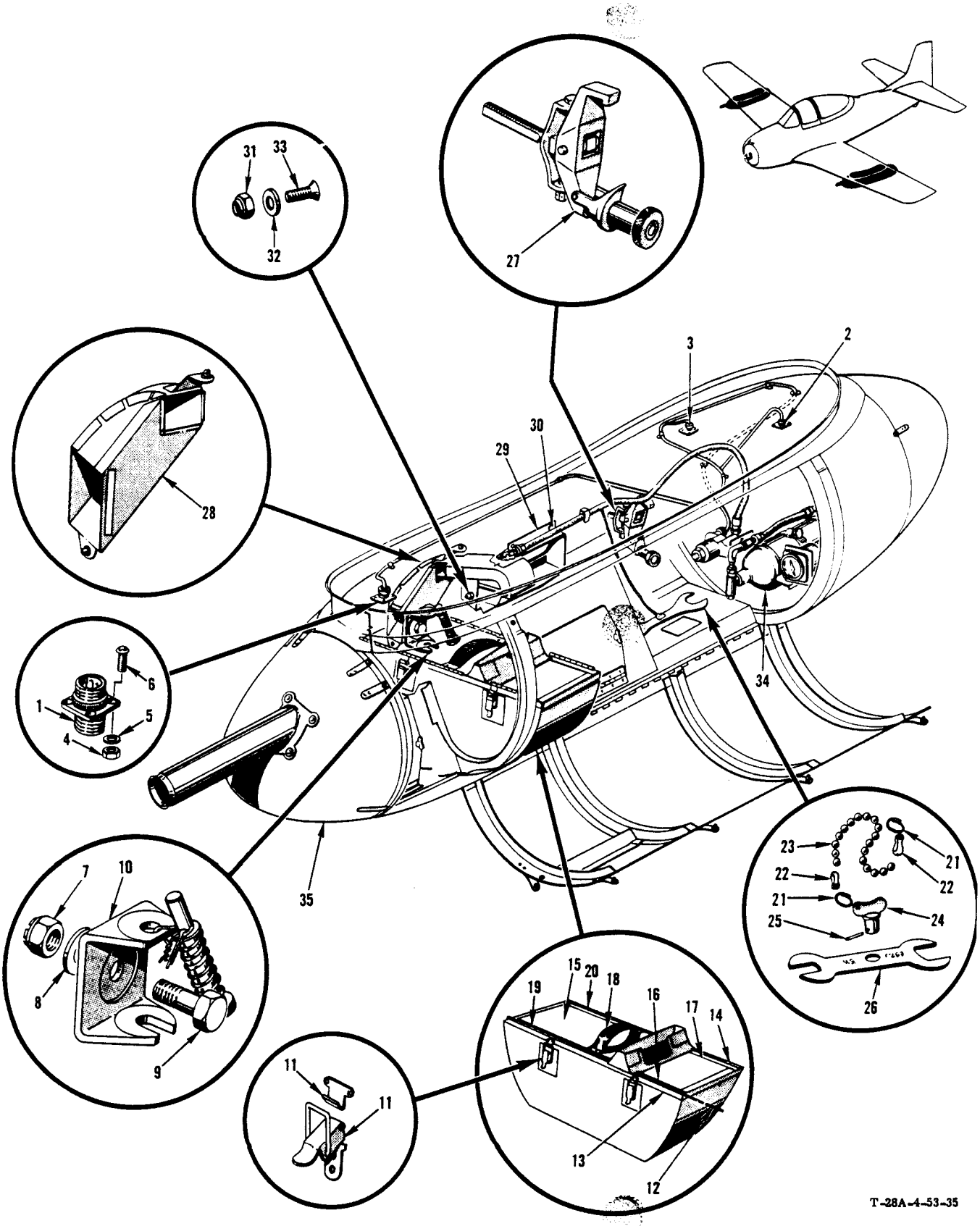


FIGURE 37 - GUN PACKAGE ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE/ON CODE
37	174-61001	GUN PACKAGE ASSY, (see fig. 35 for next assy)	Ref	
-1	AN3100-16S1P	. RECEPTACLE	1	
-2	AN3100-14S2S	. RECEPTACLE	1	
-3	AN3100-12S3S	. RECEPTACLE	1	
	ATTACHING PARTS			
-4	AN365-440	. NUT	12	
-5	2W18-4L	. WASHER, (North American)	12	
-6	AN515-4R7	. SCREW	9	
	AN515-4R8	. SCREW	3	
	---*---			
-7	AN310-12	. NUT	1	
-8	2W1C48-48-125	. WASHER, (North American)	1	
-9	AN12H20	. BOLT	1	
-10	44B11182	. BRACKET ASSY, Gun trunnion type A1A (GFAE)	1	
	159-61C07	. BOX ASSY, Package gun ammunition	1	
-11	15797C	. . CATCH & STRIKE, (Corbin Cabinet Lock)	2	
-12	159-61C07-15	. . PIN, Package gun ammunition	2	
-13	159-61C56-7	. . HINGE, Package gun ammunition box	1	
-14	159-61C56-5	. . HINGE, Package gun ammunition box	1	
-15	159-61C08	. . COVER ASSY, Package gun ammunition box	1	
-16	159-61C08-13	. . . HINGE, Package gun ammunition box LH	1	
-17	159-61C08-14	. . . HINGE, Package gun ammunition box RH	1	
-18	159-61C54	. . . HANDLE ASSY, Package gun ammunition box	1	
-19	159-61C08-11	. . . HINGE, Package gun ammunition box LH	1	
-20	159-61C08-12	. . . HINGE, Package gun ammunition box RH	1	
	159-61C33	. WRENCH ASSY, Package gun rear mount adjustment	1	
-21	142-61C43	. . RING, Boresight target peepsight	2	
-22	214795	. . FASTENER, Chain (Union Hardware & Metals)	2	
-23	501-1-8	. . CHAIN, (North American)	1	
-24	159-61C33-3	. . FASTENER, Package gun rear mount adjustment	1	
-25	99836	. . PIN, Fastener (United-Carr)	1	
-26	7269	. . WRENCH, Package gun rear mount adjustment	1	
-27	1175	. MOUNT ASSY, Rear (Model GM1) (Tison)	1	
-28	159-61C34	. HOPPER ASSY, Package gun link ejection	1	
-29	159-61C61	. CHUTE ASSY, Package gun case	1	
	ATTACHING PARTS			
-30	MAS221-8	. SCREW	4	
-31	AN365-1032	. NUT	4	
-32	2W18-10	. WASHER, (North American)	4	
-33	AN509-10R10	. SCREW	4	
	---*---			
-34	174-61C66	. CYLINDER ASSY, Package gun charger (see fig. 38 for bkdn)	1	
-35	159-61CC2-1C1	. FAIRING ASSY, Package gun (see fig. 39 for bkdn)	1	

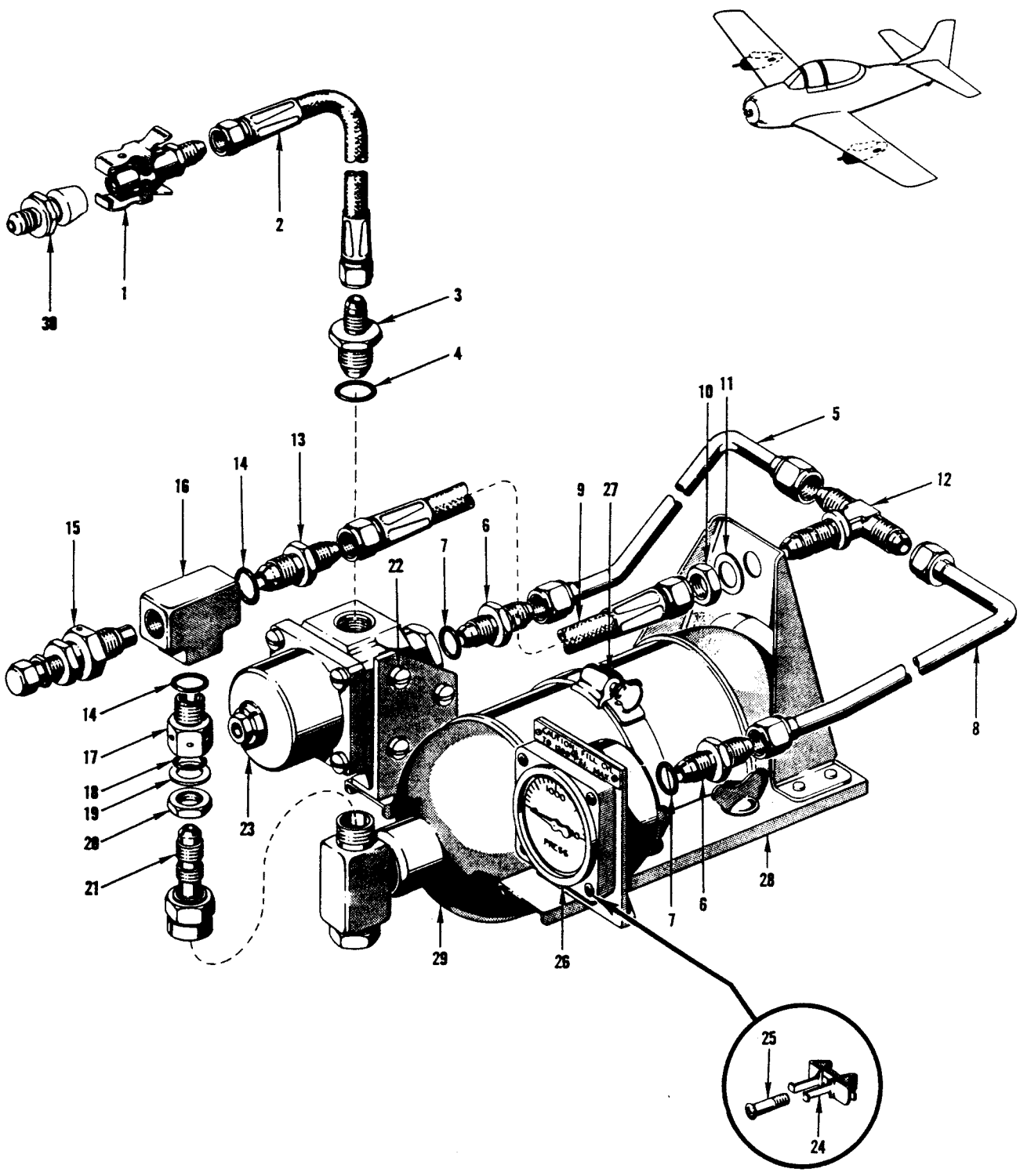


FIGURE 38 - GUN CHARGER PACKAGE CYLINDER ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	MFR CODE
38	174-61066	CYLINDER ASSY, Package gun charger (see fig. 37 for next assy)	Ref	
-1	840460	. INLET ASSY, Quick disconnect straight type 3/16" AN tube connection (Walter Kidde)	1	
-2	AN6271-3-12-1-2	. HOSE ASSEMBLY	1	
-3	AN919-5D	. REDUCER	1	
-4	AN6290-6	. GASKET	1	
-5	174-61068-5	. LINE ASSY, Gun charger air from tee on 159-61067-50 support to air pressure regulator	1	
-6	AN815-4D	. UNION	2	
-7	AN6290-4	. GASKET	2	
-8	174-61068-3	. LINE ASSY, Gun charger air from tee on 159-61067-50	1	
-9	AN6271-4-7	. HOSE ASSEMBLY	1	
-10	AN924-4D	. NUT	1	
-11	AN960D716	. WASHER	1	
-12	AN834-4D	. TEE	1	
-13	AN919-3D	. REDUCER	1	
-14	AN6290-5	. GASKET	2	
-15	AN6287-1	. VALVE	1	
-16	174-61021	. FITTING, Package gun charging air control	1	
-17	AN893-1D	. BUSHING	1	
-18	AN6290-4	. GASKET	1	
-19	AN6291-4	. RING	1	
-20	AN6289D4	. NUT	1	
-21	801503	. COUPLING, Special power actuator (Walter Kidde)	1	
-22	AN501A416-5	. SCREW	3	
-23	124D100-5	. REGULATOR ASSEMBLY, High pressure (Cornelius Co.)	1	
-24	A6939-632-125	. NUT, (Tinnerman)	4	
-25	AN515B6-12	. SCREW	4	
-26	AN5771T4B	. GAGE, Single 1 7/8 dial pressure (GFAE) (AERNO 612350)	1	
-27	QS200M60	. CLAMP ASSEMBLY, (Aircraft Standard Parts Co)	1	
-28	159-61067-50	. SUPPORT ASSY, Package gun charging control unit	1	
-29	870593	. CYLINDER ASSY, (Walter Kidde)	1	
-30	801485	OUTLET ASSY, Quick disconnect (Walter Kidde) (see figure 35)	Ref	

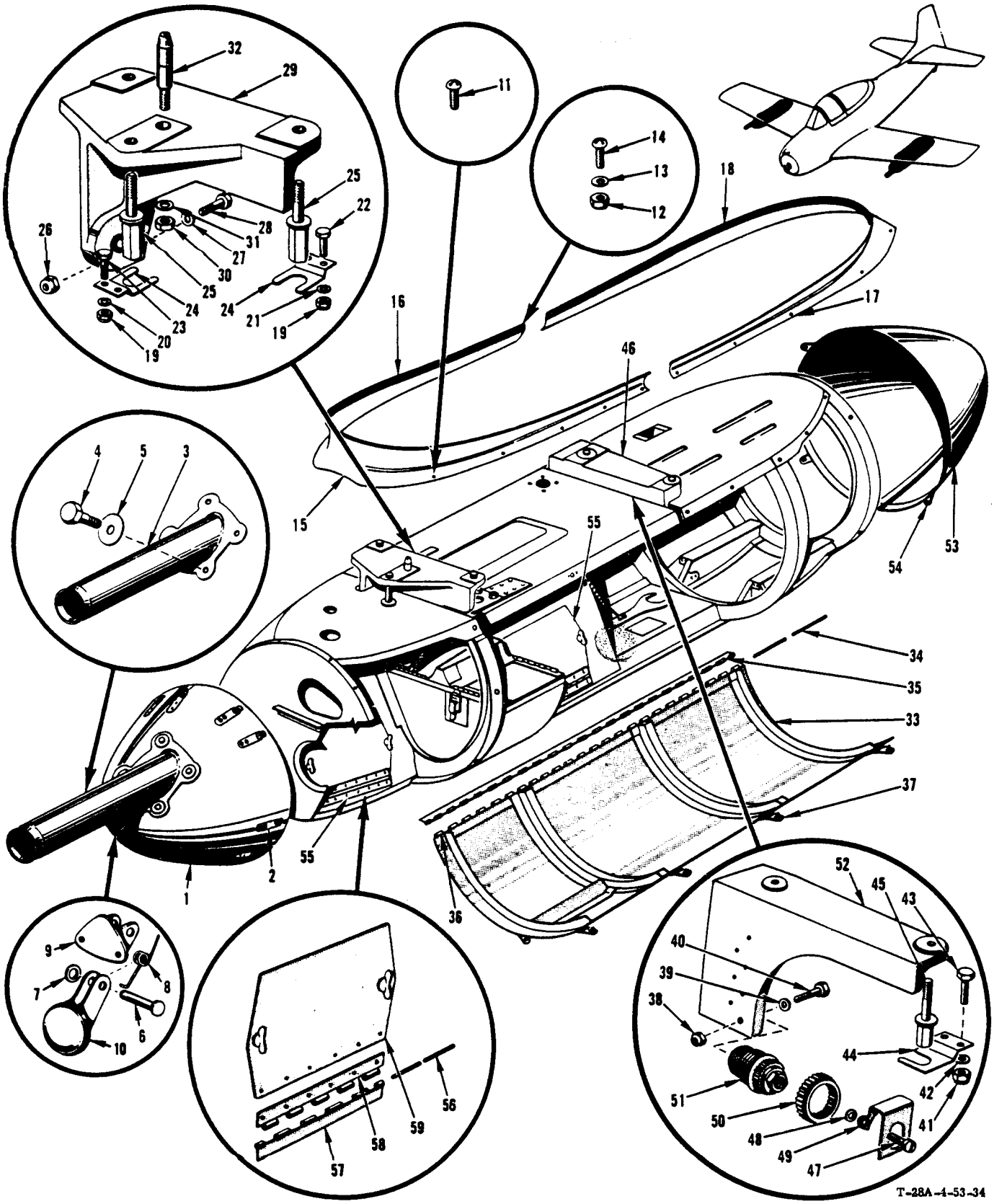


FIGURE 39 - GUN PACKAGE FAIRING ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
39	159-61002-101	FAIRING ASSY, Package gun (see fig. 37 for next assembly)	Ref	
-1	159-61028	. FAIRING ASSY, Package gun nose	1	
	159-61028-7	. . FAIRING SUB-ASSY, Package gun nose	1	
-2	159-61063-5	. . . FASTENER ASSY, Gun package fairing	9	
-3	159-61028-11	. . TUBE ASSY, Package gun nose	1	
-4	AN3-4A	. . BOLT	4	
-5	2W1-16-28-65	. . WASHER, (North American)	4	
	174-61015	. . DOOR ASSY, Package gun nose	1	
-6	AN393-31	. . . PIN	1	
-7	AN960D10	. . . WASHER	1	
-8	174-61016	. . . SPRING, Package gun nose door	1	
-9	174-61017	. . . HINGE, Package gun nose door	1	
-10	174-61018	. . . DOOR, Package gun nose	1	
-11	NAS221-8	. SCREW	20	
-12	AN365-632	. NUT	2	
-13	AN960-6	. WASHER	2	
-14	AN515-6R4	. SCREW	2	
-15	159-61065-13	. FILLET ASSY, Package gun fairing (forward)	1	
-16	159-61065-9	. . STRIP, Package gun fairing fillet rubber	1	
-17	159-61065-11	. FILLET ASSY, Package gun fairing (aft)	1	
-18	159-61065-7	. . STRIP, Package gun fairing fillet rubber	1	
-19	AN365-1032	. NUT	10	
-20	AN960-10L	. WASHER	24	
-21	AN960D10L	. WASHER	2	
-22	AN3-6A	. BOLT	2	
-23	AN3-4A	. BOLT	3	
-24	159-61047	. RETAINER, Package gun forward attaching bolt	3	
-25	159-61010	. BOLT ASSY, Package gun fairing forward attaching	3	
-26	AN363C428	. NUT	1	
-27	AN960-416	. WASHER	1	
-28	AN4-11A	. BOLT	1	
-29	159-61003-5	. MOUNT ASSY, Package gun front	1	
-30	AN365-428	. . NUT	1	
-31	2W1017-16-16	. . WASHER, (North American)	1	
-32	159-61053	. . PIN, Package gun front mount shear	1	
-33	159-61027-50	. DOOR ASSY, Package gun access	1	
-34	159-61027-9	. . PIN, Package gun access	1	
-35	159-61027-7	. . HINGE, Package gun access (altered from NAS[illegible]-7[illegible])	1	
-36	159-61027-5	. . HINGE, Package gun access (altered from NAS[illegible]-[illegible])	1	
-37	159-61063-5	. . FASTENER ASSY, Gun package fairing	8	
-38	AN363C428	. NUT	1	
-39	AN960-416	. WASHER	1	
-40	AN4-10A	. BOLT	1	
-41	AN365-1032	. NUT	1	
-42	AN960-10L	. WASHER	1	
-43	AN3-4A	. BOLT	1	
-44	159-61052	. RETAINER, Package gun rear attaching bolt	2	
-45	159-61057	. BOLT ASSY, Package gun fairing rear attaching	2	
-46	159-61004	. MOUNT ASSY, Package gun rear complete	1	
-47	AN500A10-6	. . SCREW	2	
-48	AN960-10L	. . WASHER	2	
-49	159-61036	. . LOCK, .50 caliber gun rear mount adjustment post	1	
-50	RLA124SH11	. . RING, Lock two piece insert (Rosan)	1	
-51	RZA10020	. . INSERT ASSY, .50 caliber gun rear mount (Rosan)	1	
-52	159-61051	. . MOUNT, Package gun rear	1	
-53	159-61032	. FAIRING ASSY, Package gun tail	1	
-54	159-61063-3	. . FASTENER ASSEMBLY, Gun package fairing	4	
-55	159-61018	. DOOR ASSY, Package gun ejected link and case access	2	
-56	AN253-2-725	. . PIN	2	
-57	159-61018-7	. . HINGE, Package gun ejected link and case access (altered from AN257YP4-750)	1	
-58	159-61018-5	. . HINGE, Package gun ejected link and case access (altered from AN257XP4-750)	1	
-59	159-61018-3	. . DOOR, Package gun ejected link and case access	1	

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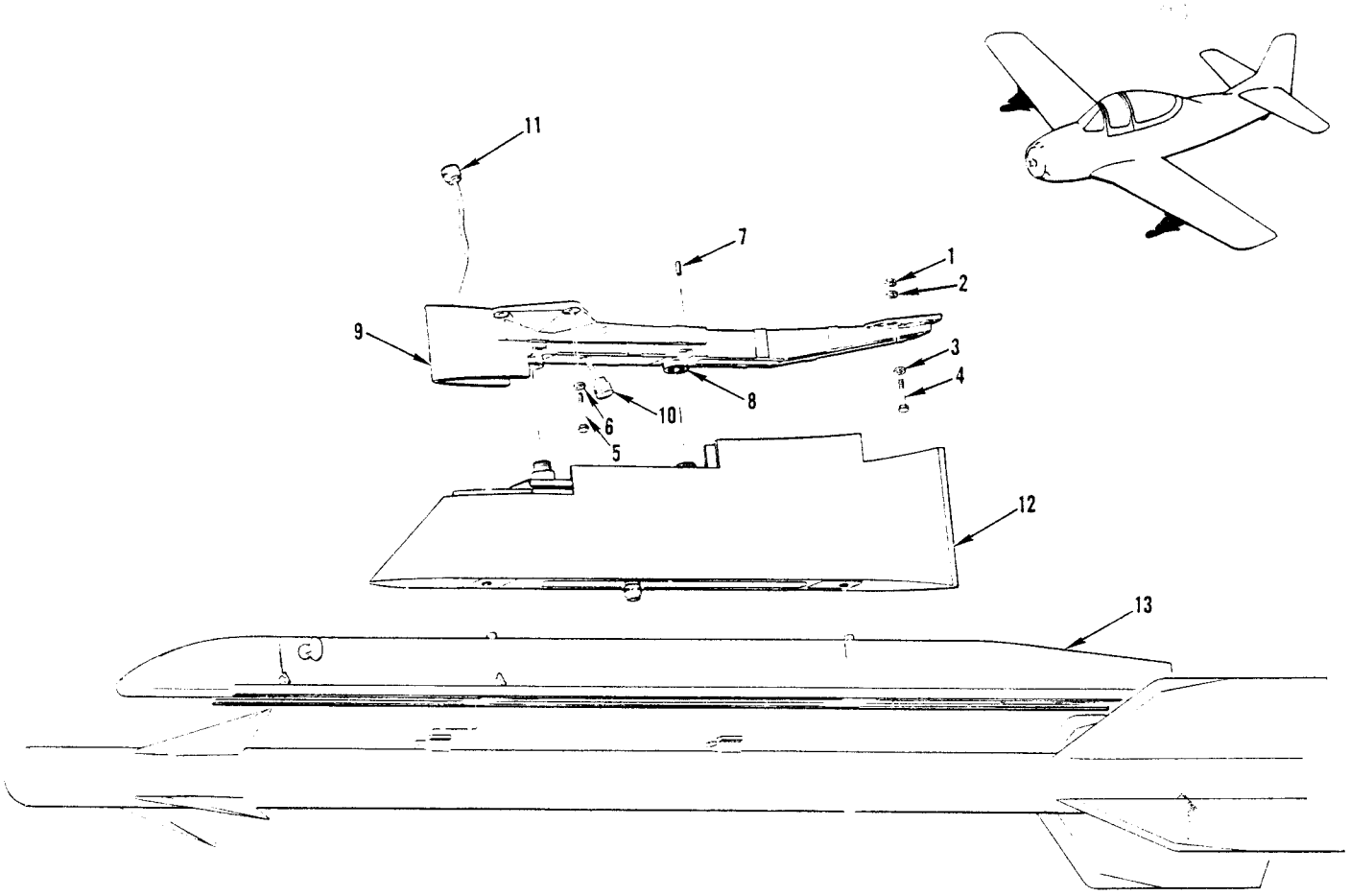

T-28A-4-53-30

FIGURE -9 - MISSILE PYLON ARMAMENT INSTALLATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
-9	139-630002	ARMAMENT INSTALLATION, Missile pylon mod . . . . . (see Fig. 8- for MEA	NP	
	252-63021-301	. ADAPTER BEAM, Under Wing complete, assy of (use 252-63021-101 until exn	1	
	252-63021-101	. ADAPTER BEAM, Under Wing complete, assy of (when exn used 252-63021-301)		
		ATTACHING PARTS		
-1	MAS679A4	. NUT	2	
-2	AW13-416	. WASHER, (North American)	2	
-3	AW1AL13-20-63	. WASHER, (North American)	2	
-4	AN4-14A	. BOLT	2	
-5	252-63025	. BOLT, Wing adapter attaching	2	
-6	AW13-316	. WASHER, (North American)	2	
-7	MAS561C4-8---*---	. . PIN	2	
-8	139-630013	. . ADAPTER, Aero-3B pylon suspension (mod)	2	
	139-630013-21	. . ADAPTER BEAM, Underwing, assy of (mod) (on 252-63021-301) .	1	
	139-630013	. . ADAPTER BEAM, Underwing, assy of (mod) (on 252-63021) . .	1	
-9	252-63020-31	. . . ADAPTER BEAM, Underwing, assy of (on 139-630013-21) . .	1	
	252-63020-11	. . . ADAPTER BEAM, Underwing, assy of (on 139-630013) . . .	1	
	139-64011A-1	. . WIRING DIAGRAM, Electrical missile control	1	
-10	MS25183-20-27S	. . . CONNECTOR	1	
-11	MS25183-18-1P	. . . CONNECTOR	1	
	139-630012	. PYLON ASSY, AERO-3A trim and adjustment (mod)	1	
-12	AERO-3A	. . PYLON ASSY, (gov't furnished, gov't installed)	1	
-13	AERO-3B	. LAUNCHER ASSEMBLY, (gov't furnished, gov't installed) . . .	1	

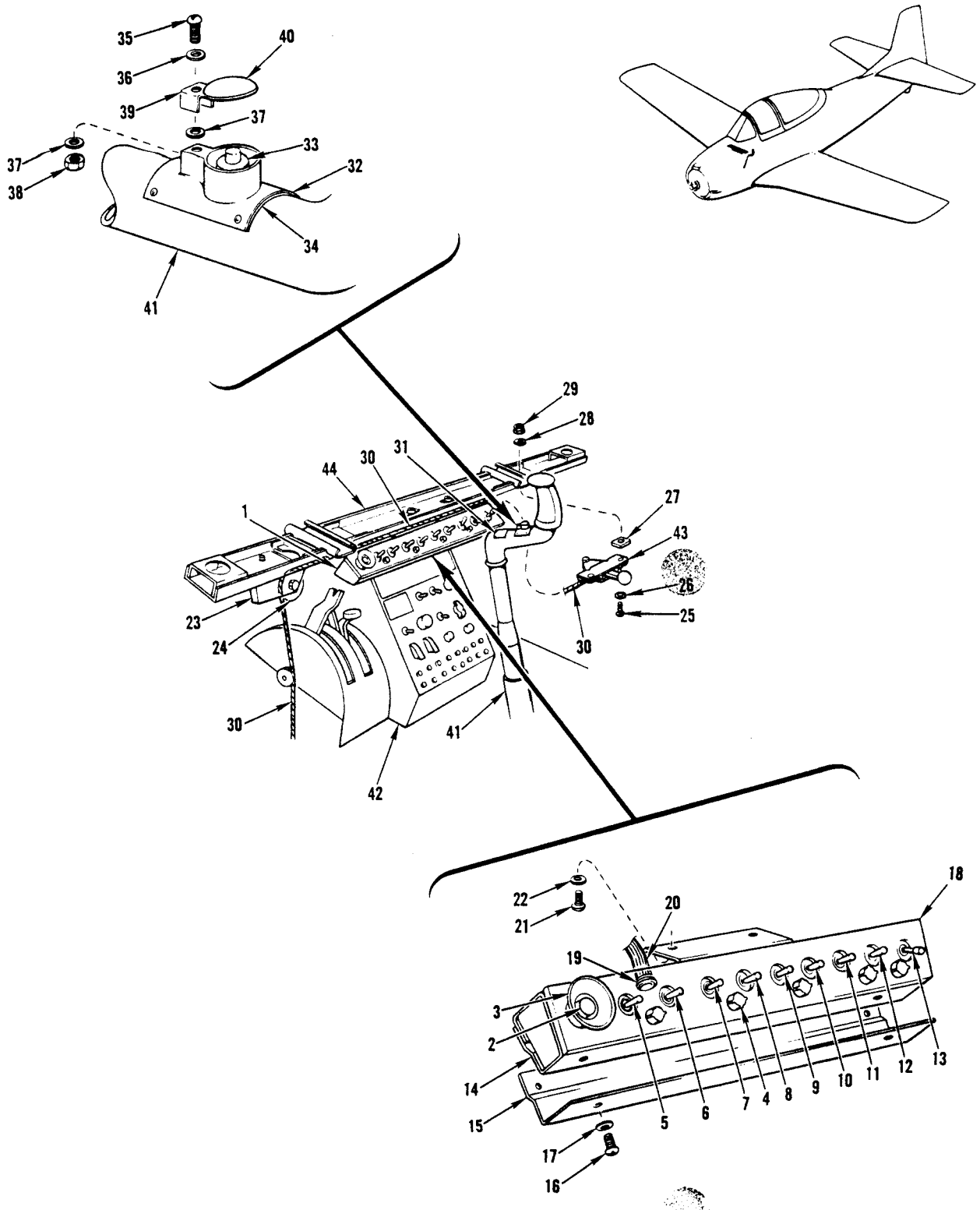

FIGURE 40A - ARMAMENT KEYBOARD CONTROL PANEL AND RELATED EQUIPMENT

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
40A		*1	ARMAMENT KEYBOARD CONTROL PANEL AND RELATED EQUIPMENT		
-1	119-54047-30		. PANEL ASSY, Elec keyboard armament control	1	
-2	51644	*2	. . SWITCH, (stores jettison) (Hayden	1	
-3	209-54239-11	*3	. . GUARD, Drop tank switch elec	1	
-4	MS25010-2A		. . LIGHT ASSY	6	
	AN31-0-327		. . LAMP	6	
-5	MS25059-21		. . SWITCH (rockets off No. 1)	1	
-6	MS25059-21		. . SWITCH, (rockets off No. 2)	1	
-7	MS25059-21		. . SWITCH, (rockets off No. 3)	1	
-8	MS25059-21		. . SWITCH, (rockets off No. 4)	1	
-9	MS25059-21		. . SWITCH, (rockets off No. 5)	1	
-10	MS25059-21		. . SWITCH, (rockets off No. 6)	1	
-11	MS25059-21	*2	. . SWITCH, (gun fire ready safe	1	
-12	MS25059-21	*2	. . SWITCH, (bomb arming nose & tail and tail only)	1	
-13	8501K48	*2	. . SWITCH, master arm on and off (Cutler-Hammer)	1	
-14	119-54046		. . CONTROL BOX, Elec armament, assy of	1	
-15	119-54046-6		. . . DOOR, Elec armament control box	1	
-16	AN520-10R8		. . . SCREW	2	
-17	AW10-10M		. . . WASHER, (North American)	2	
-18	119-54045-10		. . PLATE, Armament control switch	1	
-19	3M1HB		. . GROMMET, (Nylon Molding)	1	
-20	189-54-0128		. . HARNESS ASSY, Elec armament control keyboard	1	
-21	AN520-10R10	*2	. SCREW	2	
-22	AN960D10	*2	. WASHER	2	
-23	119-52426		. BRACKET, Rudder pedal adjustment pulley	1	
-24	AN210-1A		. PULLEY	1	
-25	AN3-8A		. BOLT	1	
-26	AW10-10M		. WASHER, (North American)	2	
-27	119-52428		. SPACER, Rudder pedal adjustment handle bracket	2	
-28	119-52429		. WASHER, Rudder pedal adjustment handle support	2	
-29	MS3210-2L3		. NUT	2	
-30	119-52427		. CABLE ASSY, Rudder pedal adjustment control fwd	1	
-31	119-52418-5		. DOUBLER, Elec nose gear steering switch support (fwd)	1	
-32	119-54-295	*2	. SUPPORT ASSY, Elec nose gear steering	1	
-33	7000218	*2	. SWITCH, (Unimatic)	1	
-34	119-52418-3		. DOUBLER, Elec nose gear steering SW support (fwd)	1	
-35	MAS220C6		. SCREW	2	
-36	AW11B11-12-100		. WASHER, (North American)	2	
-37	AW10-8		. WASHER, (North American)	2	
-38	AN365-832		. NUT	1	
	119-54217		. LEVER, Elec nose gear steering SW actuator, assy of	1	
-39	119-54217-3		. . LEVER, Elec nose gear steering SW actuator	1	
-40	119-54216		. . BUTTON, Elec nose gear steering SW actuator	1	
	119-54059		. WIRING DIAGRAM, Nose gear steering switch	1	
-41	189-52107		STICK ASSY, Fwd cockpit cont (see Fig. 112, Section II)	Ref	
-42	189-540110		PEDESTAL ASSY, Elec armament cont panel wiring (mod (see Fig. 41)	Ref	
-43	189-52421	*2	BRACKET ASSY, Rudder pedal adjustment handle see fig. 101 Section II	Ref	
-44	189-51004		BEAM ASSY, Pilots inst pnl and equip support comb front (see Fig. 101 Section II)	Ref	

*1 Used on airplanes modified per T.O. 1T-28-510
*2 Relocated to position shown on airplanes modified per T.O. 1T-28-510
*3 Relocated on this pnl on airplanes modified per T.O. 1T-28-510

ARMAMENT (Cont)

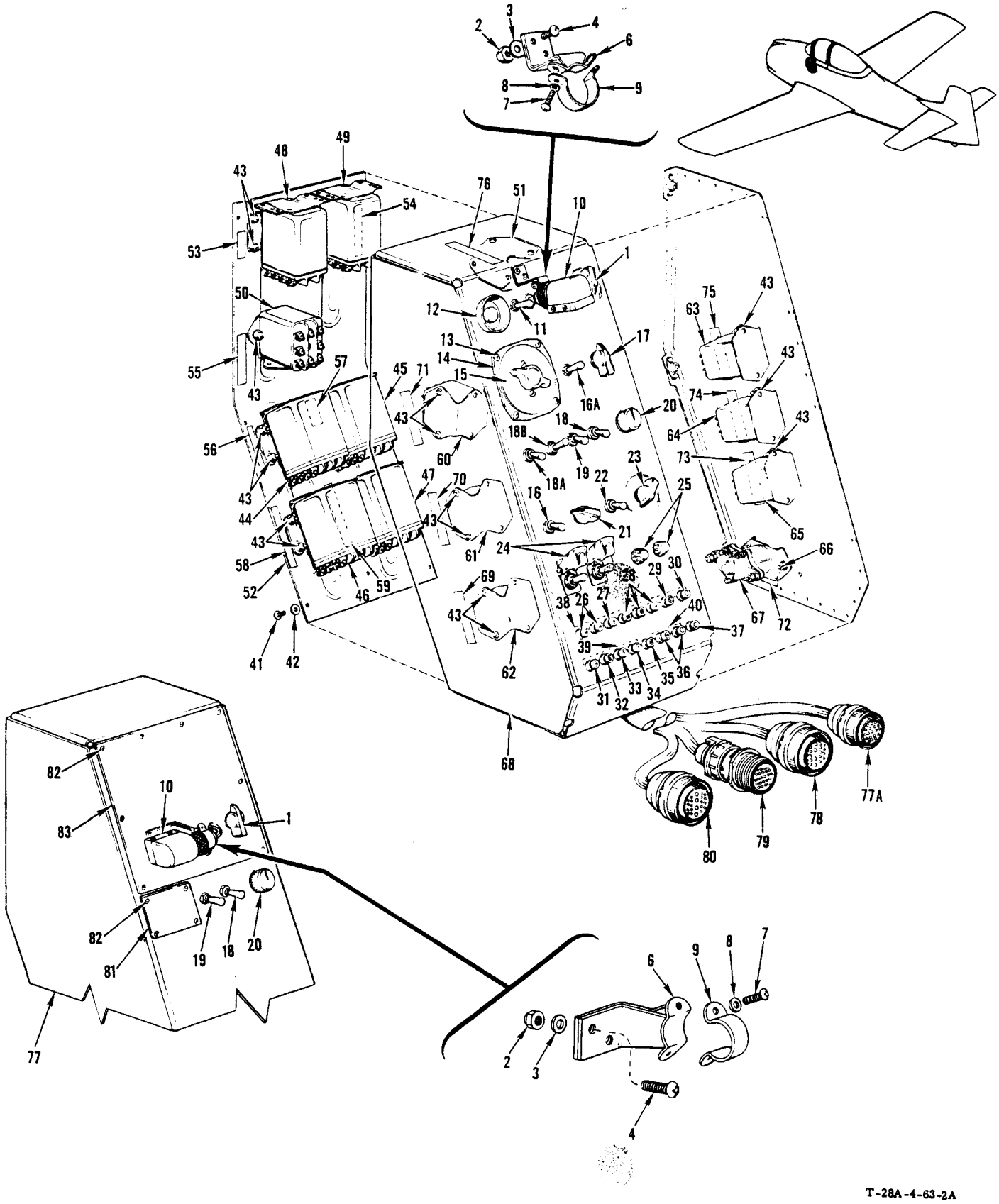

FIGURE 41- ELECTRICAL ARMAMENT CONTROL PEDESTAL ASSEMBLY

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY	USEABLE ON CODE
41	189-540110		PEDESTAL ASSY, Electrical armament control panel wiring (modification) (see fig. 42 for next assy)	Ref	
-1	AN3155-25-200	*2	. RHEOSTAT, (panel lights)	1	
-2	AN365-632	*2	. NUT	2	
-3	2W18-6L	*2	. WASHER, (North American)	2	
-4	AN515-6R7	*2	. SCREW	2	
-5	Deleted				
-6	252-54266	*2*5	. BRACKET, Electrical armament panel lights	1	
-7	AN515-4R6	*2	. SCREW	2	
-8	AN935-4	*2	. WASHER	2	
-9	A4251-1	*2	. BRACKET, (Grimes)	1	
-10	A4255A7	*2	. LIGHT ASSY, Instrument (Grimes)	1	
	MS25233-303	*2	. LAMP	1	
-11	8857X48	*4	. SWITCH, (armament master) (Cutler-Hammer)	1	
-12	61644	*4	. SWITCH, (stores jettison) (Hayden)	1	
	189-54239-11	*4	. GUARD, Drop tank switch electri	4	
-13	AN515-6R8	*1	. SCREW	4	
	2W18-6L	*1	. WASHER, (North American)	4	
	AB340-632-24A	*1	. NUT, (Tinnerman	4	
	210-54040-11	*1	. SWITCH ASSY, Station selector	1	
-14	210-54040-3		. . SWITCH, Station selector (altered from MK2 Mod-3 or MK2 Mod-2, 3FAE)	1	
-15	252-54014		. . PLATE, Station selector dial (modification)	1	
-16	MS35058-23		. SWITCH, (gun heater on)	1	
-16A	MS35058-23	*1	. SWITCH, (sta select advance)	1	
-17	MS25002-6	*1	. SWITCH, (mod selector	1	
	MS25166-1	*1	. KNOB	1	
-18	MS35058-21		. SWITCH, (missile sta select)	1	
-18A	MS35058-21	*4	. SWITCH, (gun firing)	1	
-18B	MS35058-21	*4	. SWITCH, (bomb arming)	1	
-19	8858K48		. SWITCH (missile arm) (Cutler-Hammer	1	
-20	DM10469		. SWITCH, (missile volume) (Chicago Telephone & Supply)	1	
	A5150		. KNOB, (Grimes)	1	
-21	1005-2B4		. SWITCH, (camera) (JANCO)	1	
	MS25166-1		. KNOB	1	
-22	MS35058-21		. SWITCH, (sight filament primary)	1	
-23	AN3155-50-150		. SWITCH, (sight dimmer)	1	
	AN3020-2		. KNOB	1	
-24	MS35058-30		. SWITCH, (missile end)	1	
	201-54137		. GUARD, Electrical armament control switch (altered from AN3128--)	1	
-25	MDL1		. FUSE, (LH & RH AC pwr) (Bussmann)	2	
	300A		. HOLDER, (Bussmann)	2	
-26	MP703H		. CIRCUIT BREAKER, (guns firing) (Mechanical Products)	2	
-27	MP701H		. CIRCUIT BREAKER, (guns charge) (Mechanical Products)	1	
-28	MP703H		. CIRCUIT BREAKER, (bombs & rockets, sta 186, 285 & 384) (Mechanical Products)	3	
-29	MP701H		. CIRCUIT BREAKER, (rel & fire control) (Mechanical Products)	1	
-30	MP703H		. CIRCUIT BREAKER, (missile control & fire) (Mechanical Products)	1	
-31	MP704H		. CIRCUIT BREAKER, (stores arm) (Mechanical Products)	1	
-32	MP701H		. CIRCUIT BREAKER, (panel lights) (Mechanical Products)	1	
-33	MP703H		. CIRCUIT BREAKER, (gun heater) (Mechanical Products)	1	
-34	MP701H		. CIRCUIT BREAKER, (camera) (Mechanical Products)	1	
-35	MP701H		. CIRCUIT BREAKER, (arm bus control) (Mechanical Products)	1	
-36	MP703H		. CIRCUIT BREAKER, (missile DC, LH & RH) (Mechanical Products)	2	
-37	MP701H		. CIRCUIT BREAKER, (gun sight) (Mechanical Products)	1	
-38	189-540117-3		. BUS BAR, Electrical (modification)	1	
-39	189-540117-5		. BUS BAR, Electrical (modification)	1	
-40	189-540117-7		. BUS BAR, Electrical (modification)	1	
-41	AN520-10R7		. SCREW	6	
-42	2W18-10M		. WASHER, (North American)	6	
-43	AN515-8R8		. SCREW	36	
	2W18-8L		. WASHER, (North American)	72	
	AN365-832		. NUT	36	
-44	MS25024-2		. RELAY, (gun firing)	1	
-45	MS25024-2		. RELAY, (salvo No. 1)	1	
-46	MS25024-2		. RELAY, (bombs rockets select No. 1)	1	
-47	MS25024-2		. RELAY, (stores jettison No. 1)	1	
-48	MS24149D1		. RELAY, (salvo No. 2)	1	
-49	MS24149D1		. RELAY, (bombs rockets select No. 2)	1	
-50	MS24149D1		. RELAY, (armament safety disabling)	1	
-51	MS24149D1		. RELAY, (stores jettison No. 2)	1	
-52	189-540116		. COVER, Electrical armament control panel fwd cockpit, assy of (modification)	1	
-53	252-54017-13		. . DECAL, Relay (salvo No. 2)	1	
-54	252-54017-5		. . DECAL, Relay (bombs rockets selector No. 2)	1	
-55	252-54017-29		. . DECAL, Relay (armament safety disabling)	1	
-56	252-54017-27		. . DECAL, Relay (gun firing)	1	
-57	252-54017-11		. . DECAL, RELAY (salvo No. 1)	1	
-58	252-54017-3		. . DECAL, Relay (bombs rockets selector No. 1)	1	
-59	252-54017-7		. . DECAL, Relay (stores jettison No. 1)	1	

(Nomenclature continued on next page)

ARMAMENT (Cont)

FIGURE & INDEX NUMBER	PART NUMBER		1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
41-60	MS24149D1		. RELAY, (bombs & rockets firing sta No. 4)	1	
-61	MS24149D1		. RELAY, (bombs & rockets firing sta No. 5)	1	
-62	MS24149D1		. RELAY, (bombs & rockets firing sta No. 6)	1	
-63	MS24149D1		. RELAY, (bombs & rockets firing sta No. 1)	1	
-64	MS24149D1		. RELAY, (bombs & rockets firing sta No. 2)	1	
-65	MS24149D1		. RELAY, (bombs & rockets firing sta No. 3)	1	
-66	AN520-10R8		. SCREW	2	
	2W18-10M		. WASHER, (North American)	4	
	AN365-1032		. NUT	2	
-67	AN3350-2		. RELAY, (armament bus)	1	
-68	189-540111		. PEDESTAL, Elec armament control fwd cockpit, assy of	1	
-69	252-54017-25		. . DECAL, Relay (bombs & rockets firing sta No. 6)	1	
-70	252-54017-23		. . DECAL, Relay (bombs & rockets firing sta No. 5)	1	
-71	252-54017-21		. . DECAL, Relay (bombs & rockets firing sta No. 4)	1	
-72	252-54017-31		. . DECAL, Relay (armament bus)	1	
-73	252-54017-19		. . DECAL, Relay (bombs & rockets firing sta No. 3)	1	
-74	252-54017-17		. . DECAL, Relay (bombs & rockets firing sta No. 2)	1	
-75	252-54017-15		. . DECAL, Relay (bombs & rockets firing sta No. 1)	1	
-76	252-54017-9		. . DECAL, Relay (stores jettison No. 2)	1	
-77	189-540112		. . PANEL, Elec armament cont fwd cockpit, assy of (mod)	1	
	189-540113-11		. WIRING DIAGRAM, Elec armament control (modification)	1	
-77A	MS25183-22-14S		. . PLUG	1	
-78	MS25183-28-11P		. . RECEPTACLE	1	
-79	MS3101A24-28S		. . RECEPTACLE	1	
	189-540114-11		. WIRING DIAGRAM, Elec missile control	1	
-80	MS25183-28-11S		. . PLUG	1	
-81	219-54057	*3	. PANEL, Armament control pedestal closeout	1	
-82	AN515-6R8	*3	. SCREW	13	
	2W18-6M	*3	. WASHER, (North American)	13	
	AN365-632	*3	. NUT	13	
-83	219-54058	*3	. PANEL, Armament control pedestal elec lpper closeout	1	

*1 Not used on airplanes modified per T.O. 1T-28-510
*2 Relocated in 219-54058 panel on airplanes modified per T.O. 1T-28-510
*3 Used on airplanes modified per T.O. 1T-28-510.
*4 Relocated in armt keyboard, see fig. -1A on airplanes modified per T.O. 1T-28-510
*5 Reworked per T.O. 1T-28-510

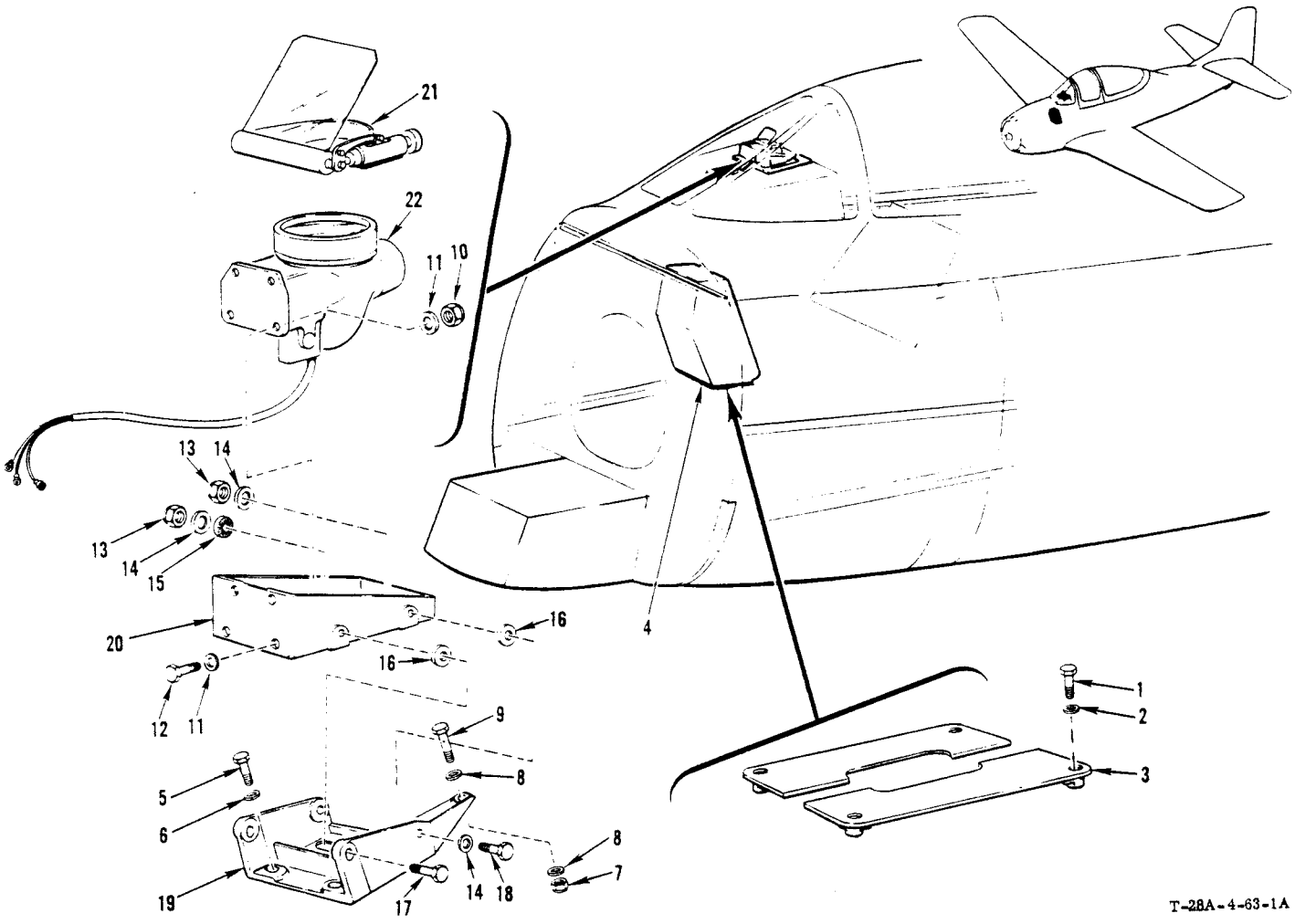

FIGURE 42 - PEDESTAL AND SIGHT ARMAMENT EQUIPMENT INSTALLATION

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
42	189-690001	ARMAMENT EQUIPMENT INSTL, Pedestal & sight (modification)	NP	
-1	AN3-5A	. BOLT	4	
-2	2W18-10X	. WASHER, (North American)	4	
-3	189-64187-1	. FAIRLEAD ASSY, Electrical armament control panel wiring	2	
-4	189-64211	. PEDESTAL ASSY, Electrical armament control panel wiring (modification) (see fig. 41 for bkdn)	1	
-5	AN4-10A	. BOLT	2	
-6	2W18--	. WASHER, (North American)	4	
-7	AN365--428	. NUT	4	
-8	2W18-416	. WASHER, (North American)	2	
-9	AN4-7A	. BOLT	1	
-10	AN365--428	. NUT	1	
-11	2W18-416	. WASHER, (North American)	2	
-12	AN4-10A	. BOLT	2	
	174-61606-11	. SUPPORT ASSY, M9-1 sight & AN-M6 K.S.A.P. camera	1	
-13	AN365--428	. . NUT	1	
-14	AN960D416	. . WASHER	2	
-15	2W18--	. . WASHER, (North American)	2	
-16	2W1AL17-32-12	. . WASHER, (North American)	AR	
	2W1AL17-32-16	. . WASHER, (North American)	AR	
-17	AN4-11A	. . BOLT	2	
-18	AN4-10A	. . BOLT	2	
-19	174-61607	. . BASE, M9-1 sight & AN-M6 K.S.A.P. camera support	1	
-20	189-690012-1	. . MOUNT, M9-1 sight (modification)	1	
-21	No Number	. SIGHT HEAD, Gun (type A3) (GFAE)	1	
-22	No Number	. SIGHT ASSY, Gun (type M9-1) (GFAE)	1	

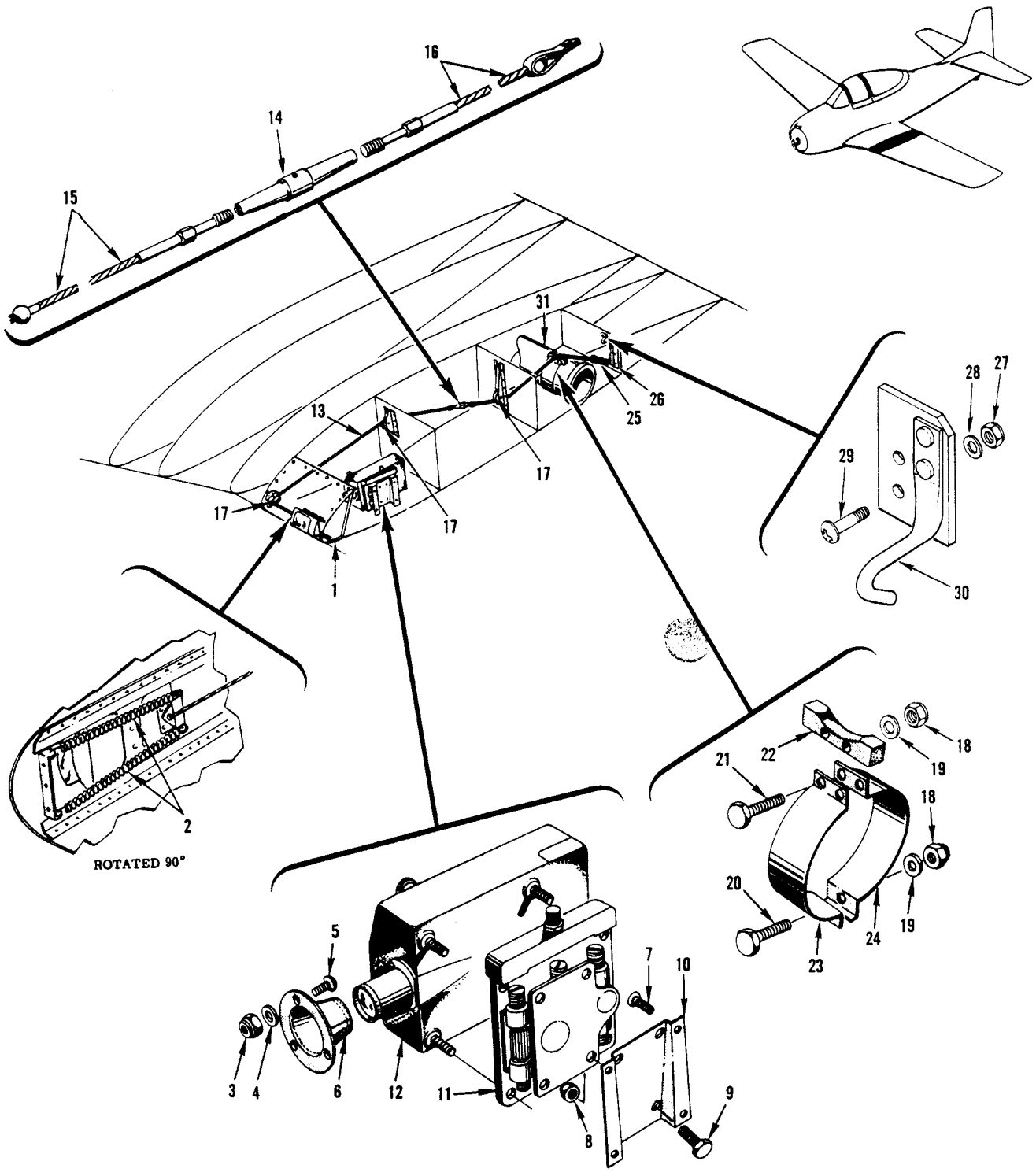

FIGURE 43 - GUN CAMERA INSTALLATION (MODIFICATION)

FIGURE & INDEX NUMBER	PART NUMBER	1 2 3 4 5 6 7 NOMENCLATURE	UNITS PER ASSY.	USEABLE ON CODE
43	189-660001	GUN CAMERA INSTALLATION, (mod) (see fig 3A for next assy)	NP	
-1	159-66015	. DOOR ASSY, WCS leading edge gun camera sliding	1	
-2	159-66011	. . SPRING, WCS leading edge gun camera door retract	2	
-3	AN365-832	. NUT	3	
-4	2W18-8	. WASHER, (North American)	3	
-5	AN515-8R8	. SCREW	3	
-6	159-66028	. SEAL ASSY, Wing nose beam gun camera cutout	1	
-7	AN520-10R8	. SCREW	4	
-8	AN365-1032	. NUT	4	
-9	AN3-4A	. BOLT	4	
-10	159-66024	. BRACKET, WCS station 59 gun camera support	1	
-11	No Number	. MOUNT, Gun camera type 210 model 3 (Huber)	1	
-12	No Number	. CAMERA, Gun type AN-N9 (GFAE)	1	
-13	159-66009-11	. CABLE ASSY, Gun camera sliding door retracting	1	
-14	AN155-3S	. . BARREL	1	
-15	159-66025	. . CABLE ASSY, Gun camera door retracting fwd	1	
-16	200-66026	. . CABLE ASSY, Gun camera door retracting aft	1	
-17	AN210-1B	. PULLEY	3	
	ATTACHING PARTS			
	AN520-10R8	. SCREW	3	
	2W18-10M	. WASHER, (North American)	3	
	NAS679A3	. NUT	3	
	---*---			
-18	AN365-1032	. NUT	3	
-19	2W18-10	. WASHER, North American)	3	
-20	AN3-6A	. BOLT	1	
-21	AN3-10A	. BOLT	2	
-22	159-66019-3	. BLOCK, Gun camera door cable chafing	1	
-23	159-66020-5	. STRAP, Gun camera door cable chafing block	1	
-24	159-66020-3	. STRAP, Gun camera door cable chafing block	1	
-25	200-66010	. SPRING, Tension	1	
-26	200-66022	. CLIP ASSY, Gun camera door retract cable attaching	1	
	ATTACHING PARTS			
	AN520-10R8	. SCREW	4	
	2W18-10M	. WASHER, (North American)	4	
	NAS679A3	. NUT	4	
	---*---			
-27	AN365-440	. NUT	2	
-28	2W18--	. WASHER, (North American)	2	
-29	AN515-4R6	. SCREW	2	
	200-66012	. HOOK ASSY, Gun camera door adjustment	1	
-30	-H1	. . HOOK, (North American)	1	
-31	R7545C-1	STRUT ASSY, Main ldg shock LH (see fig. 200, Section II)	Ref	

T. O. 1T-28A-4

SECTION VI
NUMERICAL INDEX

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE	REPAIR CODE
AAF4081718				P1	
AERNO 60-9700		9-25	REF		
AERNO 612350		38-26	REF		
AERO-3A		40-12	1		
AERO-3B		40-13	1		
AN12H20		37-9	1		
AN155-16S		21-10	1	P1	
AN155-8S		6-19	1	P1	
AN161-8LS		6-18	1	P1	
AN201K4A		29-16	2	P1	
AN210-1A		40A-24	1	P1	
AN210-1B		43-17	3		
AN218-4		29-36	1		
AN218P4		20	4	P1	
AN219-2		20-11	12	P1	
AN23-10		29-50	1	P1	
AN23-12		29-18	1		
AN23-9		21-34	2	P1	
AN24-14		23-40	2	P1	
AN24-14A		118-1	4		
AN24-8		23-41	2		
AN253-2-400		24-11	1		
AN253-2-725		39-56	1		
AN257YP4-750		39-57	REF		
AN3-10		28-37	1	P1	
AN3-10A		14-5	8	P1	
AN3-11A		1-12	9	P1	
AN3-14A		1-42	5		
AN3-17A		1-34	5	P1	
AN3-25A		28A-7	2	P1	
AN3-26A		28A-44	1	P1	
AN3-3A		7-1	8	P1	
AN3-4		30-43	2		
AN3-4A		6-32	30	P1	
AN3-5A		1-55	6	P1	
AN3-6A		7-47	15	P1	
AN3-7A		1-13	19	P1	
AN3H6A		32-1	27	P1	
AN310-12		37-7	1		
AN310-3		28-35	1	P1	
AN310-4		24-36	5	P1	
AN3100-12S3S		37-3	1		

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY PER ART	SOURCE CODE	REPAIR CODE
AN3100-14S2S		37-2	1		
AN3100-16S1P		37-1	1		
AN3102A14S9P		33-21	1		
AN3106-18-1P		36-21	1		
AN3106A14S9S		33-22	1		
AN3121-313		9C	1	P1	
AN3140-327		40A	5		
AN315-3		29-52	1	P1	
AN3150-2		12-31	REF		
AN3155-25-200		41-1	1	P1	
AN3155-50-150		41-23	1	P1	
AN3157-2		9C-7	1	P1	
AN316-4		18-10	3	P1	
AN316-5R		21-38	1	P1	
AN320-3		21-52	1	P1	
AN320-4		23	2	P1	
AN3220-2		41	1	P1	
AN3250B1		33-6	1	P1	
AN3314-1		12-22	1	P1	
AN3350-2		41-67	1	P1	
AN341-6A		11	100		
AN3434-1		10	2	P	
AN3434-2		12	1	M	
AN3436-1-3		10-12	1		
AN3436-1-6		12-29	1	M1	
AN3499-1		12-32	REF		
AN363-1032		19-12	5	P1	
AN363-524		17	1	P1	
AN363C428		39-26	2		
AN364-1032		24	2	P1	
AN364-918		22-26	4	P1	
AN365-1032		3-9	107	P1	
AN365-428		9-22	3	P1	
AN365-440		43-27	2	P1	
AN365-524		9-19	15	P1	
AN365-624		23-14	1	P1	
AN365-632		21	8	P1	
AN365-832		1	4	P1	
AN385-30P6		20-21	1	P1	
AN386-1-6A		27-24	4	P1	
AN393-11		6-16	1	P1	
AN393-31		39-6	1		

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
AN393-9		6-11	3	P1	
AN4-10A		1-60	1	P1	
AN4-11A		1-9	9	P1	
AN4-12A		9-32	6	P1	
AN4-13A		1-20	18	P1	
AN4-14A		1-22	13		
AN4-16A		1-21	5	P1	
AN4-17A		29-5	2	P1	
AN4-20A		1-23	3	P1	
AN4-22A		1-24	1	P1	
AN4-24A		1-25	1	P1	
AN4-26A		1-26	1	P1	
AN4-30A		29-12	1	P1	
AN4-33A		1-27	1	P1	
AN4-36A		27-38	2	P1	
AN4-4A		7-57	23	P1	
AN4-5A		3-7	17	P1	
AN4-6A		6-54	8	P1	
AN4-7		24-39	4	P1	
AN4-7A		1-59	2	P1	
AN4H13A		23-4	2	P1	
AN4H4A		20-5	3	P1	
AN4101		17-10	REF		
AN4101-1		17-10	1	P1	
AN4103-2		31-43	1		
AN4171-20		31	1	P	
AN4171-32		31	1		
AN4172-32		31-30	1	P	
AN42-7A		6-45	2	P1	
AN43-42		29-24	1		
AN486-1		18-9	1	P1	
AN486-2		23	1	P1	
AN5-10A		7-11	30	P1	
AN5-11A		7-12	12	P1	
AN5-13A		34-7	2	P1	
AN5-20A		29-3	2	P1	
AN5H6A		31	10	P1	
AN500A10-6		39-47	2		
AN501A10-10		32-14	8	P1	
AN501A416-5		38-22	3		
AN501A416-8		20-16	5	P1	
AN507-103R9		3-13	2		
AN507-1032R8		3-3	2		
AN509-10R10		24	2	P1	
AN509-10R11		20-28	1	P1	
AN509-10R18		23-31	2	P1	
AN509-10R19		23	2	P1	
AN509-10R6		19-4	2	P1	
AN509-10R7		1-66	30	P1	
AN509-10R8		23-36	2	P1	
AN509-10R9		24	9	P1	
AN509-416-10		24-33	8	P1	
AN509-416-11		24-30	2	P1	
AN509-416-12		24-29	2	P1	
AN509-416-13		24-28	1	P1	
AN509-416R10		7-56	3		
AN509-416R12		7-18	3	P1	
AN509-416R13		9A-13	6	P1	
AN509-416R14		7-30	3	P1	
AN509-416R16		22-23	4	P1	
AN509-416R17		27-32	4	P1	
AN509-516R15		7-38	2	P1	
AN515-4R6		11-41	2	P1	
AN515-4R7		37-6	9	P1	
AN515-4R8		37	3	P1	
AN515-6R10		6-28	3	P1	
AN515-6R4		39-14	2		
AN515-6R7		41-4	2	P1	
AN515-6R8		21	4	P1	
AN515-8R10		12-23	2	P1	
AN515-8R5		10	1	P1	
AN515-8R7		9	2	P1	
AN515-8R8		11-17	4	P1	
AN515B6-12		38-25	4		
AN520-10R10		3A	8	P1	
AN520-10R12		24	2		
AN520-10R13		7-69	3		
AN520-10R16		7-70	1	P1	
AN520-10R7		19-3	16	P1	
AN520-10R8		11-3	56	P1	
AN530-4R4		31-38	1	P1	
AN530-6R4		21-55	1		
AN535-4-6		30-34	2	P1	

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
AN5525-1		15-13	2		
AN5525-2		15-14	2		
AN5541-1		15-12	2		
AN5546-1		15-12	REF		
AN5547-2		15-15	1		
AN5766T4		9-3	1		
AN5771T4B		38-26	1		
AN5800-1		9-1	2		
AN5823-1		9-2	2		
AN6227-10		32-18A	1	P1	
AN6264-4-33		15-18	1	P	
AN6271-3-12-1-2		38-2	1		
AN6271-4-7		38-9	1		
AN6287-1		38-15	1		
AN6289D4		38-20	1		
AN6290-16		30-4	2	P1	
AN6290-3		35-2	1	P1	
AN6290-4		38-7	3		
AN6290-5		38-14	2		
AN6290-6		38-4	1		
AN6290-8		31-41	1	P	
AN6291-4		38-19	1		
AN664C2		6-13	3	P1	
AN669S2LH		20	2	P1	
AN669S2RH		6-20	1	P1	
AN737-26		12-2	5		
AN737-74		18-28	2	P	
AN737RM24		17	4		
AN737RM38		13-8	2	P1	
AN737TW46		30-6	6	P	
AN74-5		3-4	4		
AN742-11		33	2	P	
AN742D23		31-16	2	P	
AN75-10		18	2	P1	
AN75-7		18-7	8	P1	
AN7510-2		1-1	1	P1	
AN756D16		16-6	2	P1	
AN761D12-16		16-8	1	P1	
AN762D12-16		16-9	1	P1	
AN784-6		16-30	1	P1	
AN8018-1		13-19	REF		
AN8031-8-19-1/2		30-29	REF		
AN804-4		17-25	1		
AN804D4		9B-7	1		
AN814-3D		16-10	1	P1	
AN814-4D		16-12	1	P1	
AN815-4D		8-7	1		
AN815-6		16-28	1	P1	
AN816-12		17-4	1		
AN822-12		17-6	1	P1	
AN822-4		31-12	1	P1	
AN822-4D		8-3	1		
AN822-6		18-37	1	P1	
AN822-6-2		16-37	2	P1	
AN823-12		17-7	1	P1	
AN826-4		17-8	1	P1	
AN833-16D		31-8	1	P1	
AN833-6		16-32	1	P1	
AN834-4		17-15	1		
AN834-4D		38-12	1		
AN837-16D		30-8	1	P1	
AN838-16D		30-2	1	P1	
AN838-4D		8-10	1		
AN839-16D		30-21	1		
AN840-4D		8-5	REF		
AN893-1D		38-17	1		
AN900-12		3-31	2	P1	
AN900-14		30-56	2	P1	
AN900-20		30-40	1		
AN912-3		15-11	1	P1	
AN919-3D		38-13	1		
AN919-5D		38-3	1		
AN924-12D		30-45	1	P1	
AN924-16D		30-3	4	P1	
AN924-4		17-14	2	P1	
AN924-4D		8	1	P1	
AN924-6		16-31	2	P1	
AN924-8D		31-40	1	P1	
AN931-4-7		16-27	4	P1	
AN931-6-10		17-29	1	P1	
AN935-4		41-8	2	P1	
AN935-816L		36-13	2		
AN936A6B		11	100	P	

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY PER ART.	SOURCE CODE	REPAIR CODE
AN960-10L		31	18	P1	
AN960-416		9-22	10	P1	
AN960-6		39-13	2		
AN960-616L		28A-12	2	P1	
AN960-8		12	2	P	
AN960C10L		27-40	1	P1	
AN960D10		3-10	4		
AN960D10L		6-12	11	P1	
AN960D416		9-23	3	P1	
AN960D416L		3-5	5	P1	
AN960D6		6-27	6	P1	
AN960D616L		23-15	1	P1	
AN960D716		9B	1		
AN961-6		11	100	P	
AN975-3		27-23	4	P1	
AS313B/ARN		7-72	REF		
AW5-35		6-35	1	M1	
A3122-10-1		16	2	P1	
		22	1		
A3122-10-59		13-14	3		
A3122-12-1		31-52	1		
A3122-14-1		31-51	2		
A3235-020SS		23-32	4		
A4251-1		41-9	1	P	
A4255A7		41-10	1	P1	
A6939-632-125		38-24	4		
A8059		41	1	P	
A8940-632-24A		41	4		
B37K1		36-20	1		
CAMERA		43-12	1		
CCA1450		8-23	REF	P1	
CCA4300		3-16	REF		
CR1A/AR		11	1		
C1904/ARC27		10-1	2		
C404A/A		10-5	2		
DM12469		41-20	1	P1	
DY21/ARC3		11-10	1		
DY22/ARC3		11-11	1		
DY66/ARN14		10-13	1		
EA318-2		7-71	1		
ENGINE		28A	NP		
ENVELOPES		34	1		
E11101-3		34-17	1		
E11101-5		34-18	1		
E11102		34-1A	1		
E11103		34-19	1		
E11104-1		34-20	1		
E11104-2		34	1		
E1377		34-24	REF		
E1378		34-21	3		
E1773		34-14	3		
E2674-11		34	1		
FA6-1/2-50		22	4		
FCC42524		3-38	1	P1	
FCD20683		3	REF		
FCD20684		3	REF		
FUSELAGE		9	NP		
GA5-312		6-36	1	P1	
GF6-1/2-218		22	4		
GUN		35-4	1		
G51H8		40A-19	1		
HEADSET		34-22	2		
HEATER ASSY		35-5	1		
HL21-8-7		7-35	3	P1	
H10-524		21-12	1	P1	
H46R4353		35-4	REF		
H5000-051-115		24-9	2		
IN540		11	2		
J68/ARC3		11-9	1		
K1910-4		11B-6	8		
		11B-9	8		
MC1		10-19	1	P1	
MDL1		41-25	2	P1	
MK2		41-14	REF		
MOUNT		43-11	1		
MP701H		12-16	1	P1	
		41-27	1		
		41-29	1		
		41-32	1		
		41-34	1		
		41-35	1		
		41-37	1		
MP703H		41-26	2	P1	

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY PER ART.	SOURCE CODE	REPAIR CODE
MP703H		41-28	3		
		41-30	1		
		41-33	1		
		41-36	2		
MP704H		12-15	1	P1	
		12-17	1		
		41-31	1		
MP707H		12-14	1	P1	
MS20073-04-04		3-15	4	P1	
MS20073-04-05		3-22	6	P1	
MS20074-06-034		30-12	2	P1	
MS20365-1032		8-13	5		
MS20365-428		5-9	8	P1	
MS20365-524		9A-4	2		
MS20365-820		5-6	4	P1	
MS20822-6		18-51	1	P1	
MS21042-3		9	13		
MS21042L3		11B-12	4		
MS21043-5		18	REF		
MS21908D4		8-9	1		
MS24149D1		11-37	1	P1	
MS24417-1		3A-3	3	P1	
MS25002-6		41-17	1	P1	
MS25010-2A		40A-4	5		
MS25017-20		10-10	1		
MS25024-2		11-36	1	P1	
MS25033-1BB6		24-65	1		
MS25123-1-20		11-25	5		
MS25166-1		41	1	P1	
MS25183-10SL3S		33-27	1		
MS25183-12S3S		33-23	1		
MS25183-14S2S		11-61	1		
MS25183-16S1S		3A-6	1	P1	
MS25183-18-1P		11C-16	1	P1	
MS25183-20-27P		36-8	1	P1	
MS25183-20-27S		3A-10	1	P1	
MS25183-22-14P		33-20	1		
MS25183-22-14S		41-77A	1	P1	
MS25183-24-28P		3A-7	1	P1	
MS25183-24-5S		11-44	1		
MS25183-24-7S		11-45	1		
MS25183-28-11P		41-78	1	P1	
MS25183-28-11S		11C-21	REF	P1	
MS25183-36-3P		33-19	1		
MS25183-8S1S		33-28	1		
MS25183A12S4S		33-29	1		
MS25226-4-5		12-13	1	P1	
MS25231-313		9C	1		
MS25233-303		41	1	P1	
MS25331-4		9C-2	1		
MS28034-1		15-13	REF		
MS28034-2		15-14	REF		
MS28741-12-0204		17-2	1		
MS28741-12-0206		17-3	REF	P	
MS28741-16-0306		31-7	1	P	
MS28741-4-0100		31-21	1	P	
MS28741-4-0116		17-1	1		
MS28741-4-0120		15-16	1	P	
MS28741-4-0150		15-17	1		
MS28741-4-0190		17-5	1		
MS28741-4-0240		31-22	1		
MS28741-4-24		31-22	1	P	
MS28741-6-0080		16-36	1	P	
MS28741-6-0091		16-35	1	P	
MS28741-6-0120		18-36	1	P1	
MS28741-6-0361		16-29	1	P	
MS28778-16		31-10	1	P1	
MS29512-3		16-11	1	P1	
MS29512-4		16-13	2	P	
MS29512-6		16-33	1	P1	
MS29513-11		3-17	1	P1	
MS29513-12		8	1		
MS29513-14		33	1	P1	
MS29513-24		30-47	1		
MS3101A16S1P		7-65	1	P1	
MS3101A24-28S		41-79	1	P1	
MS3102-20-27S		3A-5	3	P1	
MS3102-22-14P		3A	1	P1	
MS3102-28-11S		11C-20	1		
MS3103-20-27S		11-43	3		
MS3103R18-1S		3A	1	P1	
MS3103R20-27P		11C-15	1	P1	
MS3103R28-11P		11C-14	1	P1	

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
MS35058-21		41-22	1	P1	
MS35058-23		3A-2	3	P1	
MS35058-30		41-24	2	P1	
MS35059-21		40A-5	1	P1	
MS35214-31		9	2		
MS35339-41		36	2		
MT1042/ARA25		11-16	1		
MT236/ARC3		11-12	1		
MT237B/ARC3		11-6	1		
MT238A/ARC3		11-2	1		
M1670M1		9-5	REF		
M1670M101		9-5	1		
M1670M104		9	REF		
M2139		9-26	REF		
M4084M1		33-33	REF		
M4241-0275		9-7	REF		
M4241-0650		9-9	REF		
M4241-1506		9-8	REF		
M4241-2275		9-6	REF		
M4241-3400		33-33	REF		
M4241-5500		9-10	REF		
M6070		9-31	REF		
		9A-35	1		
M6080		33-15	2	XB	
M896		33-16	2	P1	
NAS1103-7		1-75	1	P1	
NAS1103-8		1-76	1	P1	
NAS1104-11		1-70	3	P1	
NAS1104-13		1-71	1	P1	
NAS1104-7		1-72	4	P1	
NAS1196-9		1-2	1		
NAS1291-3		1-15	17	P1	
NAS1291-4		1-11	11	P1	
NAS1291-8		12	2	P1	
NAS1291C3		1-79	3	P1	
NAS1291C4		1-74	8	P1	
NAS1304-5		28A-25	6		
NAS1304-7		27-14	8		
NAS143-8C		9A-37	1		
NAS148-44		36-12	2		
NAS148DH73		9A-36	1		
NAS220C6		40A-35	1		
NAS221-12		31-17	2	P1	
NAS221-16		6-1	8	P1	
NAS221-8		28A-31	2	P1	
NAS221-9		28A-65	2	P1	
NAS222-10		9A-8	2	P1	
NAS222-22		29-67	1	P1	
NAS25-4L		31-6A	1	P1	
NAS25-4R		31-4	1	P1	
NAS27-4-22		31-6	1	P1	
NAS43-3-8		31-19	2	M	
NAS43C3-32		27-59	2	P1	
NAS43C3-6		6-34	1	M	
NAS43C4-16		27-31	4	P1	
NAS43C4-20		24-19	4	P1	
NAS43DD5-16		22-18	1	P1	
NAS561C4-6		36-6	2	P	
NAS561C4-8		40-7	2	P1	
NAS577-8		1-49	3	P1	
NAS578-8B		1-50	3	P1	
NAS679A04		11	2	P1	
NAS679A06		11C	3	P1	
NAS679A08		11	12		
NAS679A3		1-57	8	P1	
NAS679A4		1-62	3	P1	
NAS679A5		7-14	16		
NAS679A7		17-22	1		
NAS686A3		9A	2	P1	
NK509-10-10		36-17	8	P	
PC3-1/2		10-8	4		
PF3 1/2-38		10	10		
PF3-1/2-38		10-6	4		
PL148A		11-59	1	P1	
PL151A		11-47	1	P1	
PL153A		11-58	2	P1	
PL259A		11-49	1		
		11-52	2		
PR3-1/2 X 2 9/16		10	REF		
PS3 1/2		10	12		
PS3-1/2		10	4		
		10-7	4		
PS5223B12-6		3-11	REF		
PS5223B7-0		3-12	REF		
P1		33-1	1		
QS200M60		38-27	1		
QY252-2		29-58	1	P	
QY254-2		29-57	1	P	
RA2258-3		21-47	2		
RA2500-2		6-14	2	P1	
		6-22	1		
RA75400-80		14-6	1		
RA75400-80R		14-6	REF		
RC20GF151J		10	REF		
RC27F-SA1		18-21	1	P1	
RC27F-SA2		18-23	3	P1	
RC27F-SA3		18-22	1	P1	
RD205SH5.5L		3	1		
RECORD		34	1		
REPORT		34	1		
RESISTOR		10	1		
RE120/ARA25		11-15	1		
RE4F5		21-44	2		
RLA124SH11		39-50	1		
RL24SR7		3-19	1		
RT178/ARC27		11-20	1		
RZA10020		39-51	1		
R101/ARN6		11-64	REF		
R1095BUA58A154J12		36-11	REF		
R1095BUA58A154R1		36-11	REF		
R1820-56S		18-54	1		
R252/ARN14		11-42	1		
R322/ARN18		10-14	1		
R75450-1		43-31	REF		
R75450-21		14-8	1		
R75450-22		14	1		
R77A/ARC3		11-5	1		
SA4307		21-56	REF	M1	
		29-48	1		
SF111-312-649-12D02		17-3	1		
SIGHT ASSY		42-22	1		
SIGHT HEAD		42-21	1		
SP1561-832-8		1	4		
S3478-1200		17-11	REF		
S5-200		6-39	1	P1	
		11	2		
S6-275		6-52	6	P	
T.O. 1T-28A-1		34	1		
TF31400-37		8-22	REF		
TF51300		8	REF		
TYPE AN-N9		43-12	REF		
TYPE A1A		37-10	REF		
TYPE A3		42-21	REF		
TYPE B1		35-3	REF		
TYPE J4		35-5	REF		
TYPE M3		35-4	REF		
TYPE N9-1		42-22	REF		
T269		37-26	1		
T456		34	1		
T457		34	1		
T67/ARC3		11-1	1		
UG21D/U		11-31	1		
		11-50	1		
		11-54	2		
		11-57	1		
UG22D/U		11-56	1		
U15/U		11-46	2	P1	
U16/U		11-60	1	P1	
U959A		16-17	1	P	
WEE4-371		9-4	1		
WEE4-371M1		9-4	REF		
WM2-514M22		9-9	1		
WM2-514M23		9-10	1		
WM2-514M24		9-8	1		
WM2-514M25		9-6	1		
WM2-514M26		9-7	1		
0P131L3		10	1		
0P131L6		12	1	M	
1R11-8-35-428		18-11	1	P	
10C2B13-14		8-4	1	M	
10C2B13-2		16-16	1		
100-015-1T		11B	REF		
100-015T		11B	REF		
1018-1		11C-12	1	P1	
10245-1		7-67	1		
1038		18-52	2		

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
1039		18-53	2		
1040		18-50	1		
109-73076		34-16	1		
11-75A18		34	1		
11-75A501		34	1		
11D2		15-9	REF		
111-624-20S35		31-28	REF		
117-47126		32	1	X1	
117-54083		6-47	1	M1	
1175		37-27	1		
1191-4CNX-1/4		20	8		
120-100		11B-15	REF		
120-48135		32-16	2		
1211-517140		32	4	P1	
1211-517149		32-19	4	P1	
1218A		16-38	REF		
1240100-5		38-23	1		
138618		40A-33	1		
1416-42		33-2	1		
142-43071		21-37	1	P	
142-61043		37-21	2		
144-47055		32-17	1	P	
151-52040		27-43	1	P	
15175		30-30	REF	X1	
		30-38	REF		
153-71172		10-17	2		
157-71042		10	2		
15797C		37-11	2		
159-10004-11		9A-30	1	P1	
159-10009-1		1-38	REF		
159-10009-2		1	REF		
159-13334-3		1-69	4	P	
		34-23	REF		
159-18250		9A-48	REF		
159-21001		4-1	REF	U	
159-21001-11		4-1	2	P1	
159-22001		4-2	REF	U	
159-22001-801		4-2	2	U	
159-23001		4-3	REF	U	
159-23001-501		4-3	1	U	
159-24001		4-6	REF		
159-311148-501		9A-21	1	A	
159-311176		6-4	1	P	
159-311177		6-5	1	P	
159-31250		9A-42	REF		
159-314115		10-15	REF		
159-314119		9-29	REF		
159-314126		10-16	REF		
		13-16	REF		
159-31431		9-30	REF		
159-31444		9	1	X1	
159-31445		9	1	X1	
159-31448-701		9A-22	1	P	
159-31449-701		9A-23	1	P	
159-31506-9		28-39	1		
159-315106		28-38	1	P	
159-315121-3		22-19	1	P	
		22-30	1		
		24-53	2		
		24-60	2		
		26-47	2		
		28-26	1		
		28-30	2		
		28-50	2		
159-315129-1		27-27	2	P	
159-315144		27-42	1	P	
159-315147		27-37	1	P	
		27-53	1		
159-315149-5		27-41	1	P	
159-315160		24-25	1	P1	
		26-21	1		
		33-32	REF		
159-315200		24-12	2	P	
159-315206		28A-21	2	M1	
		28A-56	2		
159-315207-11		28A-19	1	P	
		28A-54	1		
159-315213		28A-27	2	P	
		28A-61	2		
159-315216-15		28A-45	1	A	
159-315216-17		28A-10	1	A	
159-315217-11		28A-48	1	P1	
159-315217-7		28A-13	1	P1	

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
159-315234		28A-11	1	P	
		28A-46	1		
159-315249		23-12	1	P	
159-315250		23-16	1	M1	
159-315251		23-13	1	P1	
159-315252		28-42	1	P	
159-315371		28A-32	1	A	
		28A-66	1		
159-315372		28A-33	1	P	
		28A-67	1		
159-315373		28A-35	1	P1	
		28A-69	1		
159-315377		28A-34	1	P	
		28A-68	1		
159-315405		24-6	8	M	
		26-6	8		
159-315420-3		19	1	M1	
159-315420-9		9A	1	P	
159-315503		28-41	1	M	
159-315536		22-28	2	M1	
		27-21	2		
		28-17	2		
159-315561-3		28-34	1	P1	
159-315562		28-54	1	P1	
159-31559		19	1	M	
159-315602-1		27-56	1	P1	
159-315602-2		27	1	P1	
159-315603-21		27-34	1	A	
159-315603-22		27	1	A	
159-315606-3		24-54	1	P	
		26-48	1		
159-315607-3		24-55	1	P	
		26-49	1		
159-315609-11		27-50	1	A	
159-315609-12		27	1	A	
159-315617-11		27-33	2	P	
159-315617-12		27	2	P	
159-315658-11		27-46	2	M	
159-31585		33-14	2	M	
159-31729		9-15	1	P1	
159-318419		9-16	1	M1	
159-31950		9A-41	1	P	
159-33321-1		14-10	REF		
159-34305-1		14	REF		
159-34305-2		14	REF		
159-34325		14-9	REF		
159-43046		29-39	1		
159-43047		29-35	1		
159-43072		20	1	P	
159-43093		29-28	1		
159-43127		29-47	1		
159-47033		15-20	REF	P1	
		31-23	1		
159-47039		31-13	1	M	
159-47048-11		32-18	1	P	
159-47049		32-21	4	P	
159-47050-3		32	1	X1	
159-47055		31-14	1	M1	
159-47059		32-11	1	P	
159-47065		32-10	1	P	
159-47070		32-9	2	P	
159-47071		31-55	REF		
159-47079		32-5	1	P	
159-47080		32-4	2	P	
159-47091		32-20	4	P1	
159-47106		18-19	1	P	
159-47146		30-20	1	P	
159-47163-11		30-16	1	P1	
159-47164		30-17	1	M1	
159-47165		30-18	1	M1	
159-47166-3		30-19	1	X1	
159-47169		30	2	P	
159-47169-3		30-29	1	M1	
		30-37	1		
159-47169-5		30-30	1	X1	
		30-38	1		
159-48043		3-30	2		
159-48050		3-20	1	P	
		3-33	2		
159-48051		3-25	1	P	
159-48054-1		3-6	2		
159-48054-2		3	2		
159-48067-3		3	3		

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
159-48067-5		3-27	1		
159-48068		3-26	4		
159-48085		17-9	1	P	
159-48093-3		3-18	1		
159-48093-4		3	1		
159-48801-13		16-40	REF		
		17-30	REF		
159-48801-23		16-39	REF		
159-48801-34		17-34	REF		
159-51004		40A-44	REF		
159-51009		33-31	REF		
159-51009-10		33-30	REF		
159-51016		15-10	2	P	
159-51052		9C-1	1	P	
159-51053		9C-3	1	M1	
159-51801-22		9B-8	REF		
159-52024		7-68	REF		
159-52107		40A-41	REF		
159-52204-21		4-4	1	A	
159-52421		40A-43	REF		
159-52498-11		4-5	1	A	
159-53036-11		13-15	REF		
159-54090		12-34	REF		
159-54091		12-21	REF		
159-54132-3		33-3	1	P	
159-54132-5		33-4	1	P	
159-54133-3		33-5	1	P	
159-54134		33-8	1	M1	
159-54135		12-33	REF		
159-54138		12-24	1		
159-54187-1		42-3	2	M1	
159-54206		6-6	1	P	
159-54266		41-6	1	P	
159-54295		40A-32	1		
159-54325-10		10-11	REF		
159-54330-10		10-11	REF		
159-55007		9-28	REF		
159-58049-3		11A-6	REF		
159-58069-20		11A-5	REF		
159-58807-31		17-35	REF		
159-61002-101		37-35	1		
		39	REF		
159-61003-5		39-29	1		
159-61004		39-46	1		
159-61006		35-6	1	M1	
159-61007		37	1		
159-61007-15		37-12	2		
159-61008		37-15	1		
159-61008-11		37-19	1		
159-61008-12		37-20	1		
159-61008-13		37-16	1		
159-61008-14		37-17	1		
159-61018-3		39-59	1		
159-61018-5		39-58	1		
159-61018-7		39-57	1		
159-61027-5		39-36	1		
159-61027-50		39-33	1		
159-61027-7		39-35	1		
159-61027-9		39-34	1		
159-61028		39-1	1		
159-61028-11		39-3	1		
159-61028-7		39	1		
159-61032		39-53	1		
159-61033		37	1		
159-61033-3		37-24	1		
159-61034		37-28	1		
159-61036		39-49	1		
159-61047		39-24	3		
159-61051		39-52	1		
159-61052		39-44	2		
159-61053		39-32	1		
159-61054		37-18	1		
159-61056-5		37-14	1		
159-61056-7		37-13	1		
159-61057		39-45	2		
159-61061		37-29	1		
159-61063-3		39-54	4		
159-61063-5		39-2	9		
		39-37	6		
159-61065-11		39-17	1		
159-61065-13		39-15	1		
159-61065-7		39-18	1		
159-61065-9		39-16	1		

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
159-61067-50		38-28	1		
159-66009-11		43-13	1	A	
159-66011		43-2	2	P	
159-66015		43-1	1	A	
159-66019-3		43-22	1	M1	
159-66020-3		43-24	1	M1	
159-66020-5		43-23	1	M1	
159-66024		43-10	1	M1	
159-66025		43-15	1	M1	
159-66028		43-6	1	M1	
159-71097-10		13-17	REF		
159-73325-27		13-18	REF		
159-89001-40		254-29	1		
159-89001-50		254-30	1		
165-48098		3-39	1	P	
171-31559		24-23	1	P	
		26-17	1		
171-31560		24-21	1	P	
		26-15	1		
171-31561		24-22	1	P	
		26-16	1		
171-47077		32-3	1	P1	
171-52229		4-7	REF		
171-54041		11-62	REF		
171-54057		12-1	1		
171-54081		6	1	P	
		6-40	1		
171-71015		11-22	REF		
171-71045		9-27	REF		
17137-20		19-28	1	P1	
17137-22		19-32	1	P1	
17161-10		18-5	1	P1	
17161-12		18	1	P1	
17162-10		18-2	1	P1	
17162-12		18	1	P1	
174-31524-7		24-44	1	X1	
174-31524-8		26-40	1	X1	
174-31537		27-44	2	P	
		27-55	2		
174-31557		33-18	4	P1	
174-31558		25-8	1	M1	
174-31577		25-17	1	P	
174-31578		25-19	1	P	
174-31581		25-18	1	P	
174-31582		25-13	1	A	
174-31854		10-15	REF		
174-47064		32-8	1	P1	
174-48002-101		3	1	A	
174-48002-102		3	1	A	
174-48023		3-12	7		
174-48025		3-11	7		
174-48028		3-32	2		
174-48105		8-24	REF		
174-48151		17-33	REF		
174-48179		3-40	REF		
174-48186		3-41	REF		
174-48188-1		3-23	1		
174-48188-2		3	1		
174-51005		9C	REF		
		9C-9	REF		
174-53016		7-8	2	M1	
		7-67	REF		
174-54051		6-8	2	P	
174-54066		11-21	REF		
174-54350-3		10-9	REF		
174-61001		35-8	1	P1	
		37	REF		
174-61015		39	1		
174-61016		39-8	1		
174-61017		39-9	1		
174-61018		39-10	1		
174-61021		38-16	1		
174-61066		37-34	1		
		38	REF		
174-61068-3		38-8	1		
174-61068-5		38-5	1		
174-61606-11		42	1	A	
174-61607		42-19	1	P1	
174-71014		11-23	REF		
174-71056-50		10	REF		
174-71058		10-4	REF		
174-73005		34-15	1		
17589-160-13		31-43	REF		

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY PER ART.	SOURCE CODE	REPAIR CODE
185-950367-16-20		31-29	1	P	
187-710053		11	1		
187-710053-11		11-35	1		
187-710053-3		11	1		
187-710053-5		11	1		
189-130100-1		1	1	U	
189-130100-2		1	1	U	
189-130180		1	1	U	
189-130180-11		1-83	1	P	
189-130180-3		1-84	1	P	
189-130180-5		1-85	1	P	
189-130180-7		1-82	1	P	
189-130181		1	1	P	
189-130181-3		1-81	1	X1	
189-130200		1	2		
		1-7	REF		
189-130200-3		1-7	1	X1	
189-130220-1		1-86	1	M	
189-130220-2		1	1	M	
189-130610		1	1	U	
189-200010		4	NP	U	
189-210010		4-1	REF	U	
189-220010		4-2	REF	U	
189-230010		4-3	REF	U	
189-310010		5	NP	U	
189-310130		5	1	A	
189-310131-3		5-15	4	M	
189-310132		5-8	1	M1	
189-310133-11		5	1	P	
189-310133-21		5	1	P	
189-310133-3		5-14	1	X1	
189-310133-5		5	1	X1	
189-310134		5-13	2	M1	
189-311030		9	1	U	
189-311040		9A	1	A	
189-311070		9	1	U	
189-311073		11C-1	1	U	
189-311151		9A-20	1	A	
189-311153		5	1	P	
189-311153-3		5-2	1	X1	
189-311160		9-19	1		
189-311160-5		9-20	1		
189-311190		9A	1	A	
189-311330		9A	1	U	
189-311335-1		9A-47	1	P	
189-311335-2		9A	1	P	
189-311360		9A-43	1	U	
189-311530		9A-29	1	A	
189-312190		9	1	U	
189-313010		5-5	1	U	
		6	REF		
189-313015		12-26	1	U	
189-313016		12	1	M1	
189-313040		6	1	U	
189-313040-13		6-50	1	M	
189-313040-31		6-49	1	M	
189-313040-5		6-51	1	M	
189-314480		9A-22	REF		
		9A-23	REF		
189-316010		5-18	1	U	
		9	REF		
		9-9	REF		
189-330001-21		14	1		
		14-8	REF		
189-330001-22		14	1		
189-340001		14	NP	U	
189-340010		14-6	REF	P1	
189-343050-1		14	REF	P	
189-343050-2		14	REF	P	
189-400400		15	NP	U	
189-428001		9	NP	U	
		16	NP		
		17	NP		
189-428003		17-24	1	M1	
189-428004		17-13	1		
189-428005-3		17-19	2		
189-430031		29	NP	U	
189-430050		21-57	REF	A	
		29	1		
189-430550		29-22	1		
189-440001		23	NP	U	
189-470003		31-1	1	P	
		32	REF		

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY PER ART.	SOURCE CODE	REPAIR CODE
189-470040		15-4	NP	U	
		31	NP		
189-480013-1		1	NP	U	
		3	NP		
189-480013-2		1	NP	U	
		3	NP		
189-480016-1		3-1	1	U	
189-480016-2		3	1	U	
189-480031		9	NP	U	
		16	NP		
189-480032		8	NP	U	
189-480032-13		8-5	1		
189-480032-9		8-6	1	M1	
189-480033		8-1	1	P	
189-480113-1		1	NP	U	
		2	NP		
189-480113-2		1	NP	U	
		2	NP		
189-480801-11		16-19	1		
189-480801-13		17-23A	1		
189-480801-15		17-18	1		
189-480801-17		8-8	1		
189-480801-3		16-2	1	M	
189-480801-5		16-1	1	M	
189-480801-7		8-2	1	M1	
189-480801-9		16-18	1		
189-510001		9C	1	A	
189-510001-3		9C	1	A	
189-510011		15-9	1		
189-510012		9C-4	1		
189-510013		9C-5	1		
189-511360		9	NP		
		9B	NP		
189-518010-3		9B-1	1		
189-518010-5		9B-2	1		
189-518010-7		9B-3	1		
189-518010-9		9B-5	1		
189-520010		4	NP	U	
189-530075		34	NP	U	
189-530080		5-1	NP		
		11B	NP		
189-530310		9	NP		
189-530312-11		11B-14	1		
189-530312-12		11B	1		
189-530312-5		11B	1		
189-530312-6		11B	1		
189-531050-15		9C-6	1		
189-540001		12	NP	U	
189-540011		10-15	1		
189-540012		10-16	1		
189-540014		12-25	1		
189-540015		12	1		
189-540031		12-30	1	A	
189-540033		12-8	1	M1	
189-540034		12	1	U	
189-540037		12	1	A	
189-540038		33-17	1	U	
189-540039		12-21	1	U	
189-540040		15-6	NP	U	
		33	NP		
189-540041-3		10	1		
189-540110		40A-42	REF	A	
		41	REF		
		42-4	1		
189-540111		41-68	1	M1	
189-540112		41-77	1	M1	
189-540113-11		41	1	A	
189-540113-21		3A	1	U	
189-540113-31		3A	1	U	
189-540113-51		11C-19	1	U	
189-540113-61		36	1	P1	
189-540114-11		41	1	A	
189-540114-21		3A	1	U	
189-540114-31		3A	1	U	
189-540114-41		40	1	A	
189-540114-51		11C	1	U	
189-540116		41-52	1	A	
189-540117-3		41-38	1		
189-540117-5		41-39	1	M	
189-540117-7		41-40	1	M	
189-540123		12	1	A	
189-540124-11		12-12	1	A	
189-540124-3		12-11	1	P1	

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
189-540125		10-9	1	U	
189-540126-11		1-4	1		
189-540126-3		10	1	M1	
189-540126-5		10	1	M1	
189-540126-9		1-3	1		
189-540127		11-21	1	U	
189-540128		40A-20	1		
189-540150-11		3A-1	1	A	
189-540150-21		3A	1	A	
189-540160-3		3A-4	1	M1	
189-540160-5		3A	1	M1	
189-540340		9	NP		
189-540341		9	REF		
189-543620		12-28	1		
189-580006		11A	NP		
189-588080-3		11A-1	1		
189-588080-5		11A-2	1		
189-588080-7		11A-4	1		
189-588080-9		11A-3	1		
189-610001		34-1	NP	U	
		35	NP		
189-630001		34	NP	U	
		36	NP		
189-630002		34-2	NP	U	
		40	NP		
189-630012		40	1		
189-630013		40	1	P	
189-630013-21		40	1		
189-634001		1	NP	U	
		3A	NP		
189-636001		5-1A	NP	U	
		11C	NP		
189-636011		11C-4	1	A	
189-636011-3		11C-13	1	P	
189-636012-11		11C-17	1	P	
189-636012-21		11C-18	1	P	
189-636013		40-8	2	P	
189-636015		11C-7	1		
189-636017		11C	1		
189-660001		3A-11	NP	U	
		43	NP		
189-690001		42	NP	U	
189-690012-1		42-20	1	P1	
189-710001		10	NP	U	
		11	NP		
189-710004		10	1		
189-710012		11	1	A	
189-710014		11	1	U	
189-710024		5-4A	1	A	
189-710026		5	NP	U	
189-710027		5-4	1	M1	
		11-63	REF		
189-710028		11-22	1	M1	
189-710030		5-3	1	A	
		11-28	1		
189-710032		13-4	1	M	
		13-11	1		
189-710033		10-3	2	M	
189-710036		10-2	2	M	
189-710038-9		10	2	X1	
189-710041		11-23	1	U	
189-710042		11-26	1	M1	
189-710043		11-27	1	M1	
189-710045		10-11	1		
		10-15	1		
189-710050-1		11-51	1		
189-710050-10		11	1	A	
189-710050-2		11-48	1		
189-710050-20		11	1	A	
189-710050-3		11-53	1		
189-710050-30		11	1	A	
189-710050-4		11-55	1		
189-710050-40		11	1	A	
189-710051		34	1		
189-710052		34	1		
189-710054		11-31	1		
189-710055		11-40	1		
189-710056		10-4	1		
189-733250-5		13-1	1		
189-733250-7		13-2	1		
189-733320		9	NP		
189-735010		7	NP	U	
189-735020		7	1	X1	

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
189-735020		8	REF		
189-735025		7	NP	U	
		13	NP		
189-735026		7	NP	U	
		13	NP		
189-735050		7	1	U	
189-735200		8-14	1	X	
189-735210-3		8-18	1	X	
189-735210-5		8-19	1	X	
189-735211-3		8-20	4	M1	
189-735211-5		8-21	1	M1	
189-829002		3	REF		
1905-284		41-21	1	P1	
192-630012		34	1		
199-31250-11		9A	1		
199-31250-13		9A-42	1		
199-31445-1		9-17	1	P	
199-31445-2		9-18	1	P	
199-31508-3		27-1	1	P1	
199-31508-35		26-5	1	P1	
199-31508-5		24-5	1	P1	
199-31508-7		22-1	1	P1	
199-31508-9		28-2	1	P1	
199-31514		24-1	2	P	
		26-1	2		
199-31515		28-1	1	M1	
199-31527-3		25-5	1	P	
199-31527-4		25	1	P	
199-31544		24-2	1	P	
		26-2	1		
199-31545-3		24-36	1	P	
		26-50	1		
199-31550		28-6	1	M1	
199-43013		21-43	1		
199-43013-3		21	1		
199-43014		21-42	1		
199-43014-3		21-46	1		
199-43016		29-37	1	P	
199-47102		31-49	1	P	
199-48804		16-20	1		
2W1-13-14-32		24-15	4	P1	
2W1-13-20-50		20-25	3	P	
2W1-16-28-65		39-5	4		
2W1-17-20-63		24-18	4	P1	
2W1-24-20-40		9A-2	2	P1	
2W1-24-56-63		30-13	2		
2W1-26-20-8		9A-32	1	P1	
2W1-36-28-93		22-27	2	P1	
2W1AL12-22-40		10	1		
2W1AL13-16-32		24	1	P1	
2W1AL13-16-64		24	18	P1	
2W1AL14-16-63		8-12	11	P	
2W1AL16-20-64		23-24	2	P	
2W1AL16-32-64		3-8	1		
2W1AL17-16-32		20-29	AR	P	
2W1AL17-16-344		34-13	2	P	
2W1AL17-28-64		27-36	4	P1	
2W1AL17-32-12		42-16	AR	P	
2W1AL17-32-16		42	AR	P	
2W1AL18-20-63		8-12	20	P	
2W1AL20-20-63		7-39	26	P	
2W1AL20-32-64		3-2	4		
2W1AL26-20-16		9A	AR	P1	
2W1AL26-20-32		9A-33	AR	P1	
2W1AL33-28-312		34-6	2	P	
2W1C13-20-32		22	17	P1	
2W1C17-16-16		39-31	1		
2W1C48-48-125		37-8	1		
2W1G25-20-16		30-50	2	P	
2W1K65-56-32		31	AR	P	
2W1K65-56-49		31	AR	P	
2W1K65-56-65		31	AR	P	
2W1K65-56-86		31	AR	P	
2W1LB11-12-100		40A-36	AR		
2W1SR20-20-125		7-40	26	P	
2W13-4		23	6	P	
2W17-10		24	6	P	
2W17-10L		22	6	P1	
2W17-10M		30	4	P1	
2W17-416		33-11	8	P1	
2W17-416L		33-10	10	P	
2W17-516		9-18	12	P1	
2W17-816		5-7	4	P1	

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
2W18-10		1-60	96	P	
2W18-10L		12	2	P	
2W18-10M		1-14	120	P1	
2W18-2116		30-10	1	P	
2W18-3		22-13	4		
2W18-4		43-28	2	P1	
2W18-4L		11	4	P1	
2W18-416		3-14	221	P1	
2W18-416L		18-16	95	P1	
2W18-416M		1-28	37	P1	
2W18-516		18	4	P1	
2W18-516L		18	19	P1	
2W18-516M		7-13	50	P1	
2W18-6L		21	12	P1	
2W18-6M		41	13		
2W18-616L		27-28	4	P1	
2W18-716M		17-27	1		
2W18-8		11-18	4	P1	
2W18-8L		11	12	P	
2W18-816		34-5	6	P	
2W18-816L		27-26	4	P1	
2W18D10L		28A-6	2	P1	
2W18D416		28A-26	6	P1	
2W18D416L		28A-23	5	P1	
200-18251		9A-34	1	P	
200-31010		6-41	1	P1	
200-31010-17		6-42	1	M	
200-31010-19		6-43	1	M	
200-31010-21		6-44	1	M	
200-31126-3		7-25	1	X1	
200-31126-4		7	1	X1	
200-31364		6-24	1	M1	
200-31503		23-1	1	P1	
		27	REF		
200-31503-101		27	1	P	
200-31503-103		27	1	P1	
200-31503-105		27	1	P1	
200-31503-109		27	1	M1	
200-31503-19		27-6	1	M	
200-31504-61		23-6	1	P1	
		24	REF		
200-31504-62		23-7	1	P1	
		26	REF		
200-31505-61		24	1	P1	
200-31505-62		26	1	P1	
200-31506-59		28	1	P1	
200-31506-701		23	1	U	
		28	REF		
200-31507		22	REF	A	
		23-22	1		
200-31507-21		22-5	1	M	
200-31507-25		22-31	1	M	
200-31507-61		22	1	P1	
200-31509-33		27-5	1	P1	
200-31509-35		24-4	1	P1	
200-31509-36		26-4	1	P1	
200-31509-37		24-62	1	P1	
200-31509-38		26-56	1	P1	
200-31509-39		22-4	1	P1	
200-31509-41		28-5	1	P1	
200-31510-1		19-14	1	P	
200-31510-2		19-16	1	P	
200-31511-1		19-13	1	P	
200-31511-2		19-15	1	P	
200-31512		19-10	1	P	
200-31513		19-6	1	P	
200-315133		24-7	1	P1	
200-315133-17		24	1	X1	
200-315133-7		24-8	1	M	
200-315133-9		24-10	1	M	
200-315144		28A-1	1	P	
200-31515		19-7	1	P	
200-315150-1		24	1	P1	
200-315150-2		26	1	P1	
200-315157-3		18-26	1	P1	
200-315158-3		18	1	P1	
200-31516		19-8	1	P	
200-31517		19-17	1	X1	
200-31517-9		27-7	1		
200-315184-1		24-3	1	XB3	
200-315184-2		26-3	1	XB3	
200-315194-3		24-46	1	A	
		25	REF		

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
200-315194-4		25	REF	A	
		26-18	1		
200-315195		25-9	1	P1	
200-31520-1		19-23	1	X1	
200-31520-3		19-24	1	X1	
200-315200-1		24-34	1	P	
200-315200-2		26-31	1	P	
200-315201-1		24-35	1	P	
200-315201-2		26-30	1	P	
200-315206		28A-53	1	X1	
200-315207-1		24-24	1	P1	
200-315207-2		26-20	1	P	
200-315224		26-7	1	P	
200-315225		24-13	1	P	
200-31524		19-1	1	P	
200-315242		28-43	1	P	
200-315242-17		28-44	1	M	
200-315242-19		28-46	1	M1	
200-315242-21		28-45	1	M1	
200-315244		28-3	1	P1	
200-31525-5		19-9	1	P1	
200-315252		28A-36	1	P	
200-315259		22-25	2	P	
		28-14	1		
200-315260		28-4	1	P1	
200-315261-5		24-45	1	P1	
		26-41	1		
		28-23	1		
200-315262		28-8	1	M1	
200-315264		28-7	1	M1	
200-315265		23-43	8	M	
200-315266		23	8	M	
200-315267		23	12	M	
200-315268		23-45	12	M	
200-315269		23-46	12	M	
200-31527		19-22	1	M	
200-315271		23-44	8	M	
200-315273		28A-18	1	M1	
200-315275		28A-30	1	P	
		28A-64	1		
200-315351		22-7	1	P1	
200-315352		22-6	1	P1	
200-315376		22-9	1	M	
200-315377		9A-28	1	P1	
200-315379-3		22-3	1	P1	
200-31538		9A	1	P	
200-315380-11		9A-27	1	A	
200-315381-11		9A	1	A	
200-315382-9		9A-44	1		
200-315383		9A-45	1	M1	
200-315384		22-10	1	M1	
200-315390		23-28	1	P1	
200-315393		23-42	2	A	
200-315393-3		23	1	P	
200-315394		23-38	1	P	
200-315395		23-29	1	P	
200-315398		23-33	1	M1	
200-31540		15-1	VP	U	
		23	VP		
200-31547		18-29	1	P1	
		19	REF		
200-31547-3		19	1	X1	
200-31547-5		19	1	X1	
200-31563		27-25	2	M	
200-31565		27-63	2	M	
200-31566		27-62	2	M	
200-31568-1		27-12	1	P	
200-31568-2		27-13	1	P	
200-31569-1		27-47	1	P1	
200-31569-2		27-48	1	P1	
200-31572-1		27-45	1	P1	
200-31572-2		27	1	P1	
200-31585-1		27-10	1	P1	
200-31585-2		27-11	1	P1	
200-31586-1		27-8	1	P1	
200-31586-2		27-9	1	P1	
200-31595		23-8	1	A	
200-31597		23-9	1	M1	
200-31599		23-17	1	A	
200-31725-21		9-11	1	A	
200-31725-7		9-12	1	M	
200-31725-9		9-13	1	M	
200-31727-11		9-14	1	P	

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
200-31825		9A-31	1	P1	
200-31901		18-18	1	P1	
200-31905		9-21	1	P	
		9A-24	1		
200-31916		9A-38	1		
200-34301		14-2	1	P1	
200-34305-1		14-7	1	U	
200-34305-2		14	1		
200-34324		14-1	1	M1	
200-42008		18-3	1	P1	
200-42010		18-1	1	A	
		20	REF		
200-42010-3		20-17	1	P1	
200-42010-4		20-18	1	P1	
200-42010-5		20	1	A	
200-42020-1		24-61	1	A	
200-42020-2		26-55	1	A	
200-42024		18-4	1	M1	
200-42028		17-17	REF		
200-42029		17-23	2	M	
200-42030		17-20	1	P	
200-42031		17-12	1	P	
200-42032		18-8	2	A	
200-42032-3		18-12	1	P	
200-42033-11		16-26	1	P	
200-42034		18-13	2	M1	
200-42036		20-27	1	P1	
200-42036-3		20	1	X1	
200-42040		15-2	NP	U	
		17	NP		
		18	NP		
200-42041		20	1	P	
200-42042		20	1	P	
200-42043		20-19	1	P	
200-42044		18-6	1	P1	
200-42045-3		17-17	1	P1	
200-42056		18-27	1	P1	
200-42061		28-55	1	P1	
200-42062		28-57	1	P1	
200-42063		19-34	1	P	
200-42066		28-56	1	P	
200-42090		27	1	P1	
200-42095		27-4	1	P1	
200-42100		18-55	2	P	
200-42103-29		18-32	1	M1	
200-42103-31		18-31	1	M1	
200-42103-611		18	1		
200-42104-101		18	1		
200-42104-15		18-34	1	M1	
200-42105-101		18	1		
200-42105-17		18-35	1	M1	
200-42107		18	1	P	
200-42108		18-56	1	M1	
200-42109		18-33	1	P	
200-42109-7		18	1	M	
200-42146-1		20	1	X1	
200-42146-2		20	1	X1	
200-42801-19		16-22	1	M	
200-43010		20-12	2	M1	
200-43011		20-6	1	P1	
200-43012		21-18	1	P1	
200-43013		21-24	2	M1	
200-43014		20-7	1	P	
200-43015		20	1	X1	
200-43016		20	1	X1	
200-43017		20-20	1	P	
200-43018		20-22	1	M1	
200-43020		20-8	1	M1	
200-43021		29-23	1	P	
200-43037		21	NP		
200-43038		29-10	2	M1	
200-43039		29-14	1	P1	
200-43040		15-3	NP	U	
		21	NP		
200-43045		29-30	1	P	
200-43047		29-32	1	P	
200-43048		21-7	1	P	
200-43049		21-8	1	P	
200-43050		29	REF		
200-43052		29-45	1	M1	
200-43053		29-44	1	M	
200-43054		21-25	1	P1	
200-43057		29-45A	1	M	

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
200-43058		29-49	1	P1	
200-43059		21-28	1	P	
200-43060		21-33	1	M1	
200-43061		29-46	1	P	
200-43062		21-1	1	P1	
200-43063		21-6	2	M1	
200-43064-3		21-11	1	P1	
200-43065		21-17	4	M1	
200-43066		19-18	1	P	
200-43071		21-9	1	M	
200-43078		29-29	1	P	
200-43079		20-15	1	P	
200-47006		22	1	A	
200-47006-9		22	1	A	
200-47016		15-7	NP	U	
		30	NP		
200-47031		9	NP		
		31	NP		
200-47032		31-53	1		
200-47051		31-48	2	M	
200-47060		22-2	1	X1	
200-47061		22-29	1	P1	
200-47063		31-37	1	P	
200-47076		22-8	1	P	
200-47094		19-31	1	P1	
200-47108		31-35	2	P	
200-47111		9A-10	1	A	
200-47113		9A-15	1	P1	
200-47114		9A-14	1	P1	
200-47117		9A-5	1	P1	
200-47122		9A-18	2	P	
200-47125		9A-19	1	P	
200-47131		9A-9	1	P	
200-47141		31-34	2	M1	
200-47143		19-29	1	X1	
200-47143-3		19	1	M	
200-47147		19-26	1	X1	
200-47147-7		19-27	1	M	
200-47153		19-25	1	X1	
200-47155		30-1	1	P1	
200-47156		30-35	1	A	
200-47157		30-36	1	P1	
200-47158		30-15	1	P	
200-47159		30-27	1	A	
200-47160		30-28	1	P1	
200-47171		30-39	1		
200-47173		32	3	P	
200-47175		22-16	1	P1	
200-47801-109		30-26	1	M	
200-47801-7		30-7	1	M	
200-47802		31-54	1		
200-48002		15-5	NP	U	
		16	NP		
		17	NP		
200-48004		16-34	1	P	
200-51040		15-8	NP	U	
200-52445		6-25	1	A	
200-52445-3		6-30	1	M	
200-52446		6-29	1	P	
200-53403		19-30	1	P1	
200-53410-11		9A-1	1	P1	
200-53415		19-33	1	X1	
200-54002-101		33	1	P	
200-54046-41		12-6	1		
200-54048		6-31	1	A	
200-54049-51		6-46	1	A	
200-54058		6	1	P	
200-54058-3		6-48	1	X1	
200-54062		6-7	1	M1	
200-54197		41	2	M	
200-54202		6-38	1	M1	
200-54203		6	1	P	
		6-37	1		
200-54205		6	1	M	
200-54205-3		6-14A	1	X1	
200-54206		6	1	P	
200-54206-3		6-23	1	X1	
200-54207		6	2	A	
200-54207-11		6-10	1	P	
200-54224		6-9	1	P	
200-66010		43-25	1	M1	
200-66012		43	1	M1	
200-66022		43-26	1	M1	

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
200-66026		43-16	1	M1	
200-71092		10-18	1	P	
200-73314		13-7	1	M1	
209-54239-11		40A-3	1		
		41	1		
214795		37-22	2		
219-31411-11		13-3	1	P	
219-31412-11		13-10	1	P	
219-47013		31-2	1	M1	
219-47013-7		31-3	1	M	
219-48200-101		2-1	1	A	
219-48200-102		2	1	A	
219-48201-1		2-2	1	P1	
219-48201-2		2	1	P1	
219-48202-1		2-3	1	P	
219-48202-2		2	1	P	
219-48208		3-34	1	P	
219-48210-101		2-4	1	P	
219-48210-102		2	1	P	
219-48211-1		2-5	1	P	
219-48211-2		2	1	P	
219-48212-11		2-6	1		
219-48212-2		2	1	P1	
219-48213-3		2-7	1	P1	
219-48213-4		2	1	P1	
219-48213-7		2	1	P1	
219-48213-8		2	1	P1	
219-51802-7		13-12	1		
219-51802-9		13-5	1	M	
219-52418-3		40A-34	1		
219-52418-5		40A-31	1		
219-52426		40A-23	1		
219-52427		40A-30	1		
219-52428		40A-27	2		
219-52429		40A-28	2		
219-54040-11		41	1	A	
219-54040-3		41-14	1	M1	
219-54045-10		40A-18	1		
219-54046		40A-14	1		
219-54046-6		40A-15	1		
219-54047-30		40A-1	1		
219-54057		41-81	1		
219-54058		41-83	1		
219-54059		40A	1		
219-54216		40A-40	1		
219-54217		40A	1		
219-54217-3		40A-39	1		
219-71002		7	1	P	
219-71037		7-66	1	M1	
219-73310-11		13-9	1	M	
219-73314		13-13	1		
219-73315		13-6	1	M1	
219-73502		7-45	1	X	
219-73504		7-46	1	X	
219-73517-1		7-24	1	M1	
219-73517-2		7	1	M	
219-73526		7-15	2	M1	
219-73529		7-23	2	M1	
219-73530-1		7-16	1	M1	
219-73530-2		7	1	M1	
219-73531-1		7-9	1		
219-73531-2		7-10	1		
219-73532-11		7-29	2	A	
219-73532-3		7-36	1	M1	
219-73532-7		7-33	1	M1	
219-73532-9		7-34	1	M1	
219-73533-1		7-54	1	M	
219-73533-2		7-55	1	M1	
219-73534		7-62	2	M	
219-73535		7-61	2	M1	
219-73537		7-68	1	M1	
219-73538		118-13	2	M1	
219-73552		7-37	1	X	
219-73555		7-63	1	X	
2196D21		18-49	1	P1	
2209-4		33-7	1	P1	
2209-7		3A-8	6		
225-13076-11		1-87	1	U	
225-13076-12		1	1	U	
226-42058		17-21	1		
226-47014		30-55	1	P	
226-47015		30-57	1	P	
226-47016		30-51	1	P	
226-47017		30-58	1	P	
226-47019		30-48	1	P	
226-47020		30-53	1	M1	
226-47021		30-54	1	P1	
226-931507-11		22	1		
226-931507-3		22-11	1		
226-931507-5		22-12	1		
2452-080		1-5	1	P1	
2452-080RET		1-6	1		
249-63075		36-19	2	X1	
249-63077		36-18	4	X1	
252-13001-21		1	1	U	
252-13001-22		1	1	U	
252-13002-21		1	1	U	
252-13002-22		1	1	U	
252-13003-11		1	1	X	
252-13003-12		1	1	X	
252-13003-13		1-40	1	M	
252-13003-19		1-51	1	M	
252-13003-21		1-52	1	M	
252-13003-7		1-46	3	M	
252-13003-9		1-47	1	M	
252-13004-21		1-1A	1	U	
252-13004-22		1	1	U	
252-13010		1	REF		
252-13011-11		1-16	1	P	
252-13011-12		1	1	P	
252-13012-11		1-30	1	P	
252-13012-12		1	1	P	
252-13013		1-19	1	M	
252-13014-13		1-18	1	M	
252-13014-15		1-17	1	M	
252-13014-21		1-36	1	M	
252-13014-3		1-8	4	M	
252-13014-31		1-63	1	M	
252-13014-33		1-64	1	M	
252-13014-34		1	1	M	
252-13014-35		1-65	1	M	
252-13014-36		1	1	M	
252-13014-9		1-37	1		
252-13020		1-39	1	P	
252-13021-1		1-45	1	P	
252-13021-2		1	1	P	
252-13022-1		1-49	1	P	
252-13022-2		1	1	P	
252-13023-1		1-50	1	P	
252-13023-2		1	1	P	
252-13024-1		1-48	1	P	
252-13024-2		1	1	P	
252-13025-3		1-41	1	M1	
252-13025-7		1-53	1	M1	
252-13025-9		1-54	1	M1	
252-13026-1		1-38	1	M1	
252-13026-2		1	1	M1	
252-54013-41		36	1	P	
252-54014		41-15	1	M1	
252-54017-11		41-57	1	M1	
252-54017-13		41-53	1	M1	
252-54017-15		41-75	1	M1	
252-54017-17		41-74	1	M1	
252-54017-19		41-73	1	M1	
252-54017-21		41-71	1	M1	
252-54017-23		41-70	1	M1	
252-54017-25		41-69	1	M1	
252-54017-27		41-56	1	M1	
252-54017-29		41-55	1	M1	
252-54017-3		41-58	1	M1	
252-54017-31		41-72	1	M1	
252-54017-5		41-54	1	M1	
252-54017-7		41-59	1	M1	
252-54017-9		41-76	1	M1	
252-63014		34	1	A	
252-63014-11		36	1		
252-63015		34-3	1		
		36-1	1		
252-63015-3		36-2	1		
252-63017		34	1	A	
252-63019		36-7	2	P	
252-63020-11		36	1	P1	
		40	1		
252-63020-21		36-10	1		
252-63020-31		40-9	1		
252-63021		36	1	X1	

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
252-63021-101		40	1	P1	
252-63021-201		36	1		
252-63021-301		40	1		
252-63025		34-4	6	P	
		40-5	2		
260-43005-101		29-56	1	P1	
260-43005-11		29-63	1	M	
260-43005-3		29-59	1	M	
260-43005-5		29-60	1	M	
260-43005-7		29-61	1	M	
260-43005-9		29-62	1	M	
294189-12A		12-7	1		
29802		31-27	1	P1	
3H2-16-15		30-5	1	P	
3H2-8-56		31-50	1		
3H2L4-12		16-21	1	M	
3T3-19-7		12-27	1	P1	
300A		41	2	P1	
32120		31-44	1	P	
3239		35-7	1		
33D50-119/7133A18S		23	1	P1	
		23-47	1		
39B5294		32-13	1		
39B5435		32-12	1		
399-7		12	1	P1	
4B18-4-91		23-30	1	M1	
4B19S12-030		1-80	1	M	
4B19S3-004		21-30	2	M	
4B19S3-006		29-17	2	P	
4B19S4-102		25-4	1	M1	
4B19S4-108		25-7	1	M1	
4B19S5-021		28A-8	4	M1	
4B19S6-004		28A-14	2	M1	
4B19S6-009		24	2		
4B19S6-026		28A-15	1	M1	
4B21S3-005		20-24	1	P	
4B21S3-014		25-20	1	M1	
4B21S3-204		28A-9	2	M1	
4B21S4-010		24-38	2	M1	
4B21S4-013		9A-16	2	P	
4B21S4-027		28A-29	2	M1	
4B21S5-008		18	5		
4B21S6-009		30-14	2		
4G10-3		18-30	1	P1	
4G2-16		16-7	2	P	
4H1		43-30	1	P1	
4L1966		29-27	1		
4S6-4-0.688		29-15	1	P	
40B1718		32	1		
42A11521		9	2		
42A13995		9-25	2		
		98-9	REF		
420213		18	REF		
432195		18-38	9	P	
44B11182		37-10	1		
44B25259		35-5	REF		
46744		31-47	1		
468D25		18	9		
46800-101		31-43	REF		
498D4		18	2	P1	
5B6-24		21-2	2	P1	
5P30		5-2A	1	M1	
5S7-3-21-1-20		11	5	M	
5S7-3-4-1-1		10	1		
5S7-3-6-1-5		12	1	M	
50A70B77		34	2		
50A70C92		34	1		
55A82A158		36-2	REF		
55A82C130		34	1		
55A82C160		34	6		
56A74177-1		18-26A	9		
58A154B10		34	1		
58A15486		34	1		
58A15487		36-3	2		
58A154B75		36-16	2		
58A154B76		36-14	2		
58A15488		36-5	6		
58A15489		36-4	2		
58A154D26		34	6		
58A154J12		36-11	1		
58A82A249		36-15	2		
58SCA12521-3		9C-8	1		
58495		31-45	1		

PART NUMBER	STOCK NO.	FIGURE AND INDEX	QTY. PER ART.	SOURCE CODE	REPAIR CODE
59570		30-41	1		
6T1-25		12-5	1		
6T1-31 1/2		12-3	1		
6T1-6		12-4	1		
601000-4-12		17-11	2	P	
6085D5		18	9		
61644		40A-2	1	P1	
		41-12	1		
63D67		18	REF		
6617-1		18	1	A	
6617-12		18-41	1	P1	
6617-2		18	1	A	
6617-26		18-42	1	P1	
6617-3		18-39	1	P1	
6617-34		18-43	1	P1	
6617-38		18-44	1	P1	
6617-46		18-45	1	P1	
6617-61		18-46	1	P1	
6617-65		18-47	1	P1	
6617-7		18-40	1	P1	
6800-02		3	2		
6800-080		5-12	2	P1	
7E13-23		19-27	REF		
7S14-832-10A		29-40	3	P	
7S14-832-13A		29-43	2	P	
7S15-10-23		1-58	2	P1	
72139		31-42	1	P1	
7313328		35	1		
73855-7		31-46	1	P1	
750-21-2-10		31-15	1		
754-10-2-8		18-48	2		
7901-1		16-14	1	P1	
800-001-100S		32-7	35		
801485		35-1	1		
		38-30	REF		
801503		38-21	1		
8101-3		31-39	1	P1	
33501-1		3-16	1		
840460		38-1	1		
870593		38-29	1		
8857K48		40A-13	1		
		41-11	1		
8858K48		41-19	1	P1	
890100		35-3	1		
9C1-1-8		37-23	1		
9C1-2-5		19-2	1	M	
9220-4988		11-24	3	P1	
93-24946		35-5	REF		
950171-16-43-1/2		17-31	REF		
950172-16-8-54-1/4		17-32	REF		
950377-24-36-1/2		31-24	1		
950420-16-16-13/16		30-11	1		
950424-12-22-1/8		30-42	1		
9574-20-35		31-26	1	P1	
98292-1-140		23	3	P1	
98292-2-170		23	2	P1	
98292-7-.670		28A-17	1		
		28A-52	1		
99836		23	5	P1	
		28A-16	1		
		28A-51	1		
		37-25	1		