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**SECTION I
INTRODUCTION**



1. This Technical Order is the Parts Catalog for the Model P-51A Airplane and is divided into four sections.

2. Section II is divided into two parts, the Illustrated Parts List and the Group Assembly Parts Lists.

a. The Illustrated Parts List consists of perspective line drawings of all serviceable

assemblies and parts, and lists of the indexed parts with their proper part number, nomenclature, and quantity required. These perspective line drawings are preceded by a Drawing and Group Number Chart, a Three-View Drawing of the Airplane, a Station Diagram, an Exploded Shipping View and Weight Data List, an Index of Illustrated Assemblies, and a Structural Exploded View.

b. The Group Assembly Parts Lists consists of a listing of all the installations, assemblies, and details arranged in drawing break-down procedure. The part number, nomenclature, quantity required, Army property classification, and the next assembly are noted therein.

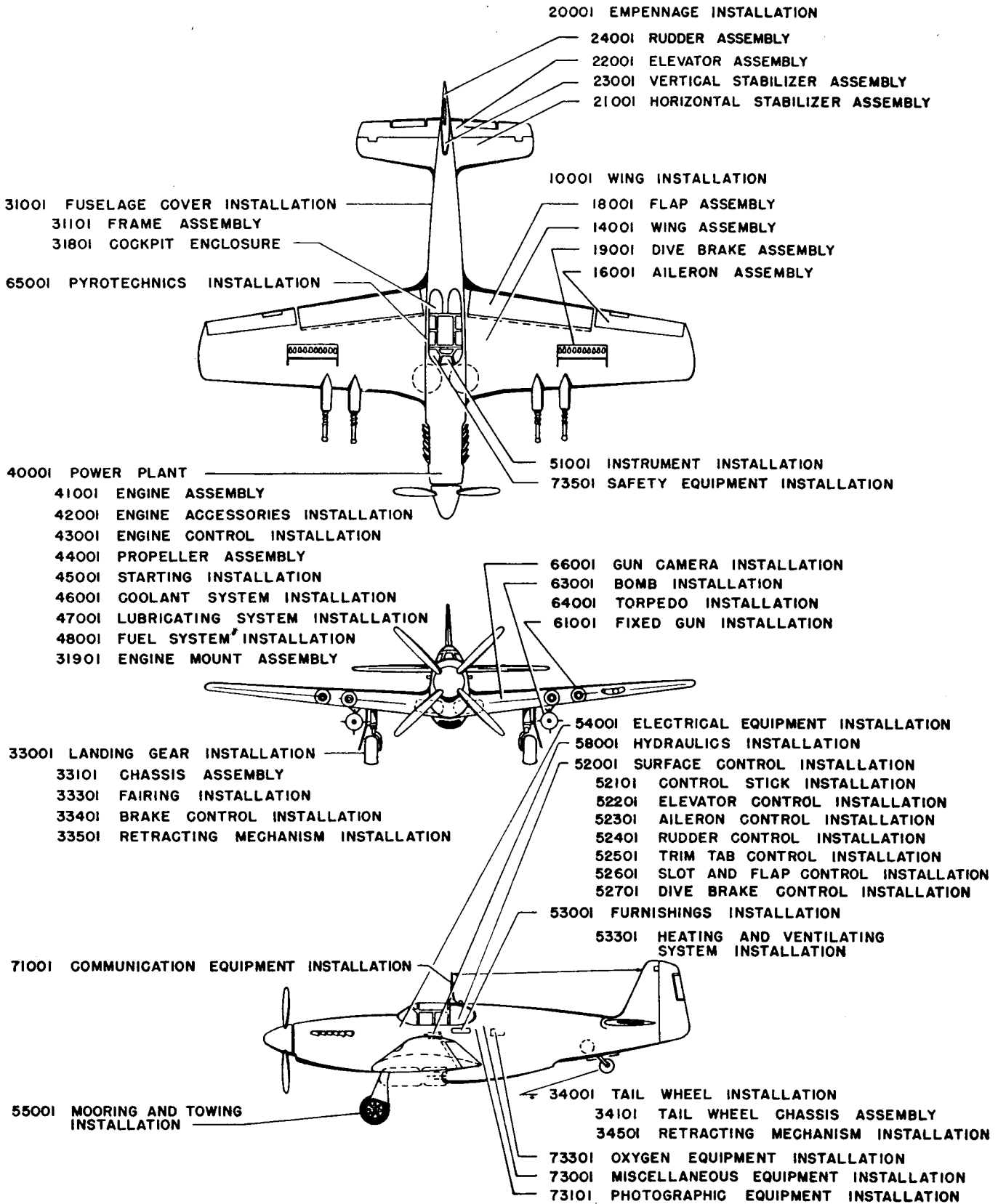
3. Section III, the Numerical Parts List, consists of the contractor's part numbers arranged in numerical sequence and indicates the Parts List numbers in which each part is located in the Group Assembly Parts Lists and the total quantity required per airplane.

4. Section IV, the Standard Parts List, consists of the following:

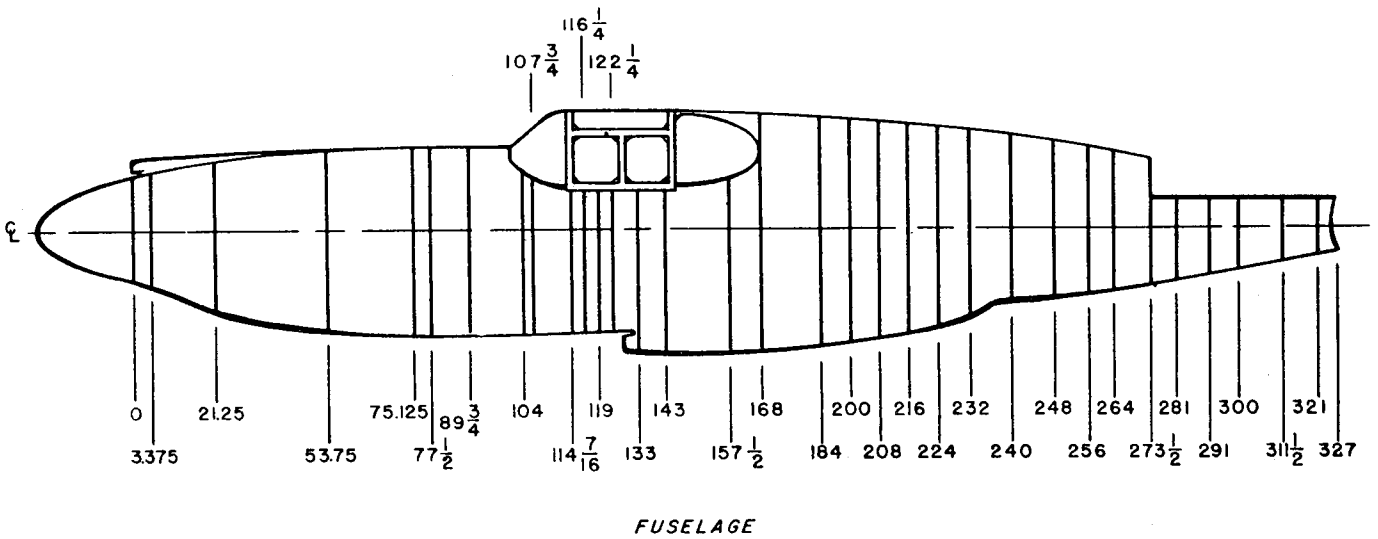
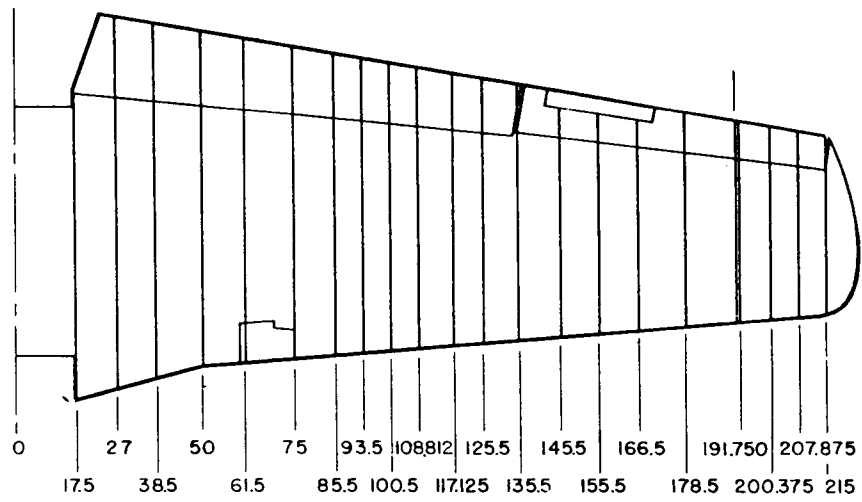
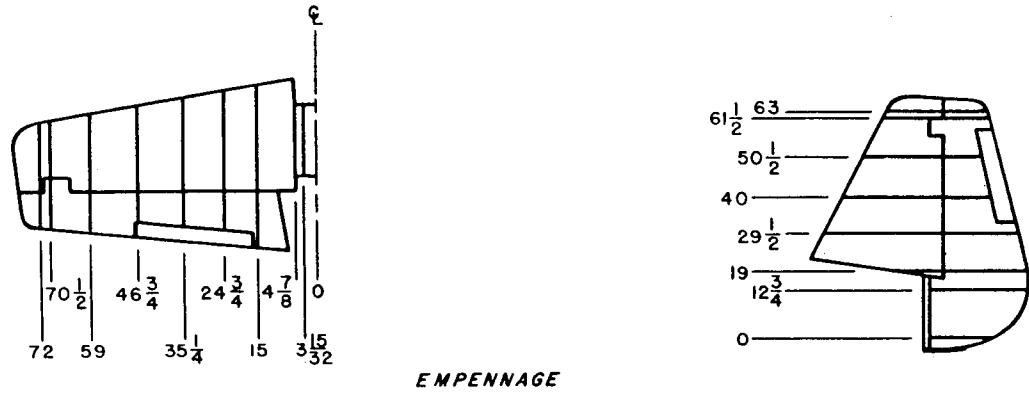
a. Contractor's "B" and "C" Standard Part Numbers.



**SECTION
II
ILLUSTRATED
PARTS LIST**



THREE-VIEW DRAWING



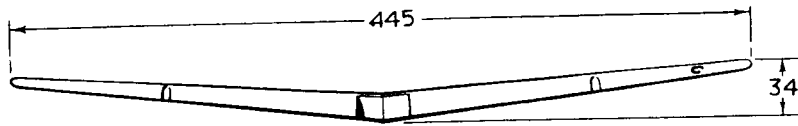
STATION DIAGRAM

EXPLODED SHIPPING VIEW AND WEIGHT DATA LIST

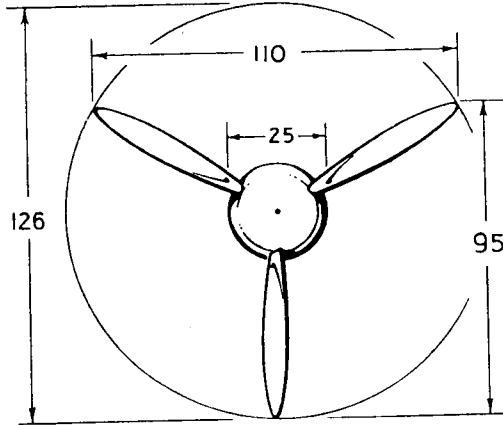
A 400#
B 200# Each
C 1850# Dry
D 850# Each Including Fuel Cells
E 20# Each
F 25# Each
G 35# Each
H 350# Dry
I 1100# Less Radio Equipment (150#)
J 150#
K 70#
L 25# Each
M 20#
N 35#

Weights Listed Less Than 100# Given To Nearest 5#

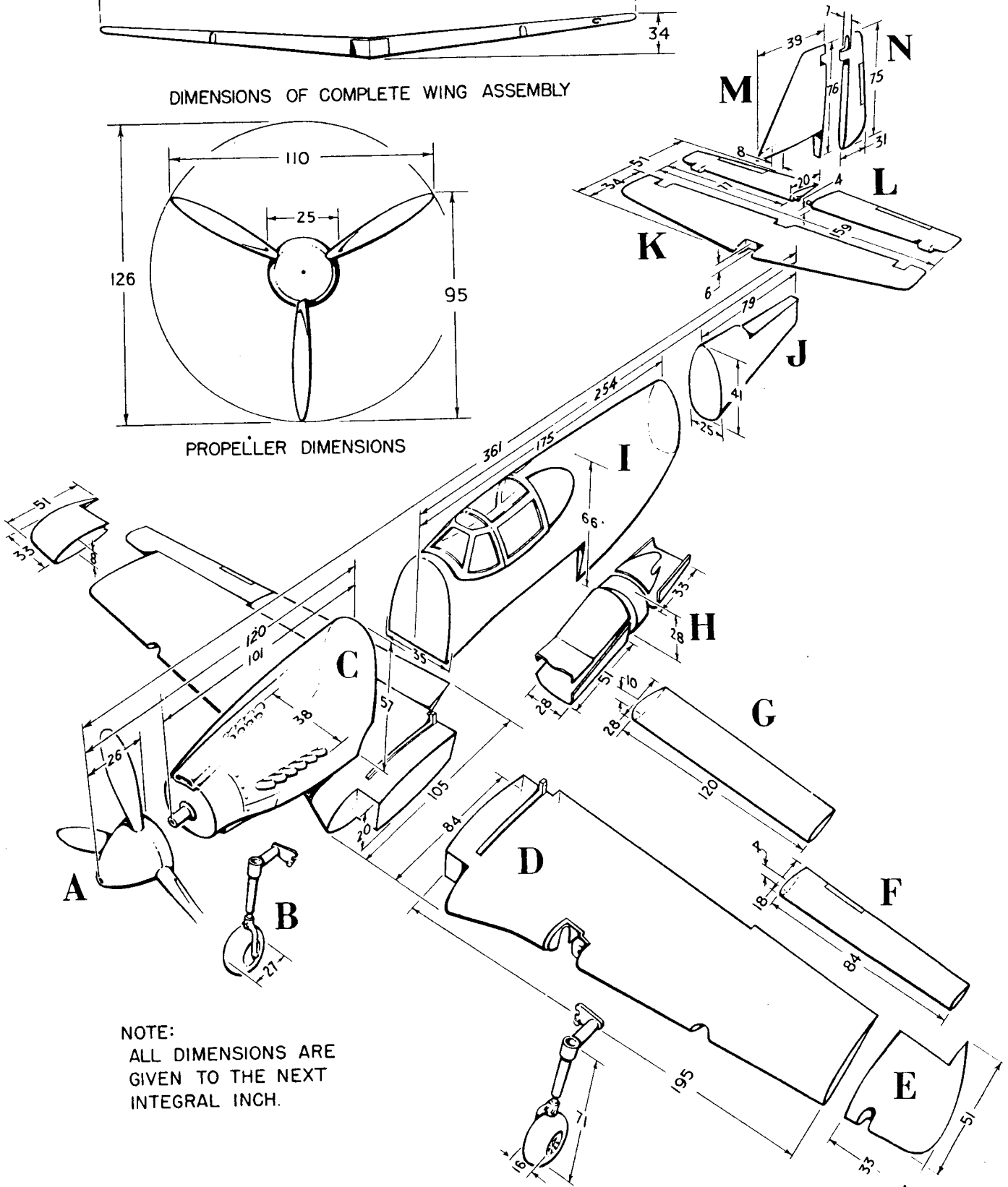
Weights Listed More Than 100# Given To Nearest 50#



DIMENSIONS OF COMPLETE WING ASSEMBLY



PROPELLER DIMENSIONS



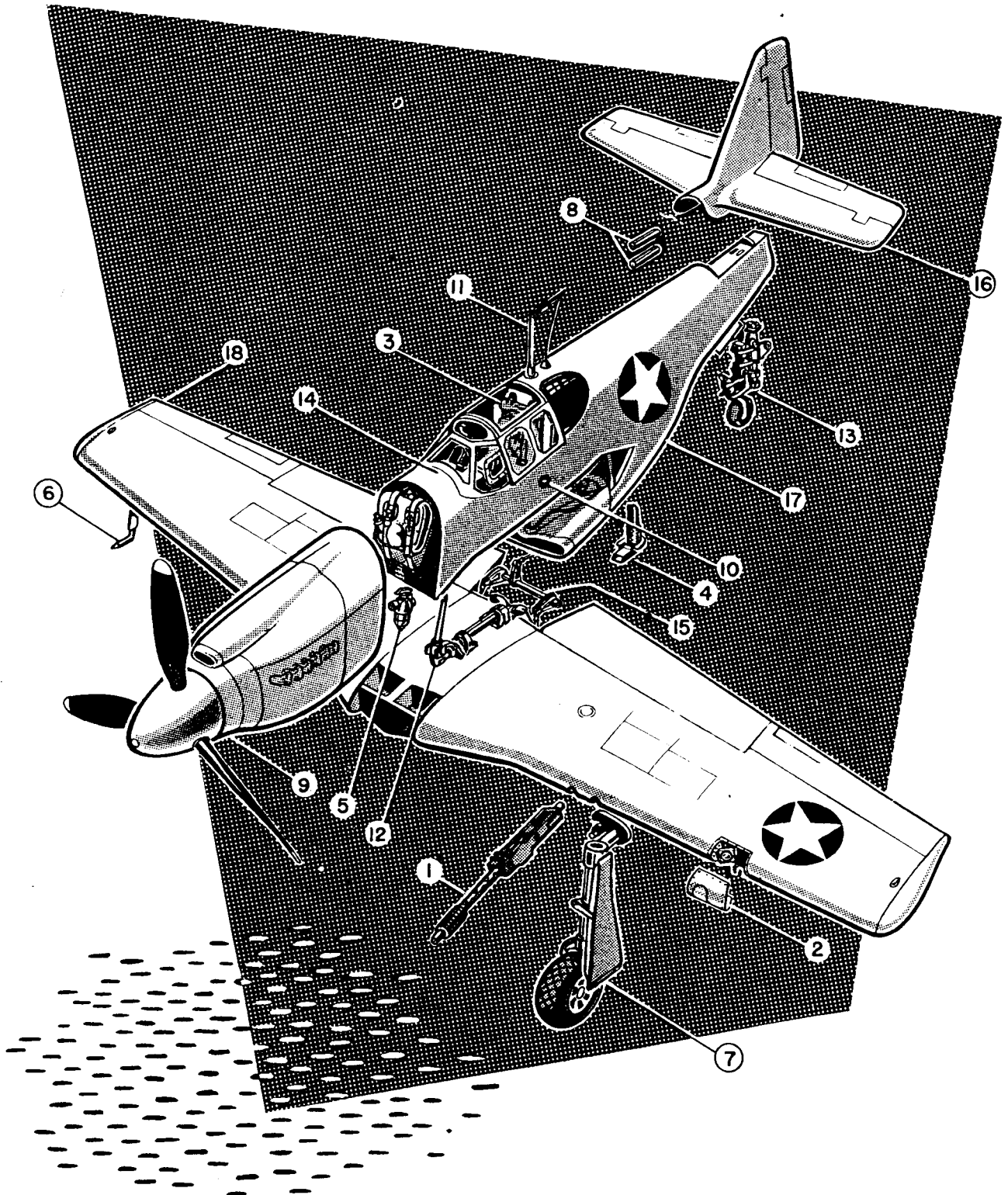
NOTE:
ALL DIMENSIONS ARE
GIVEN TO THE NEXT
INTEGRAL INCH.

EXPLODED SHIPPING VIEW AND WEIGHT DATA LIST

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AC43-6103 To AC43-6157 Incl.), & P-51A-10-NA (AC43-6158
To AC43-6312 Incl.)

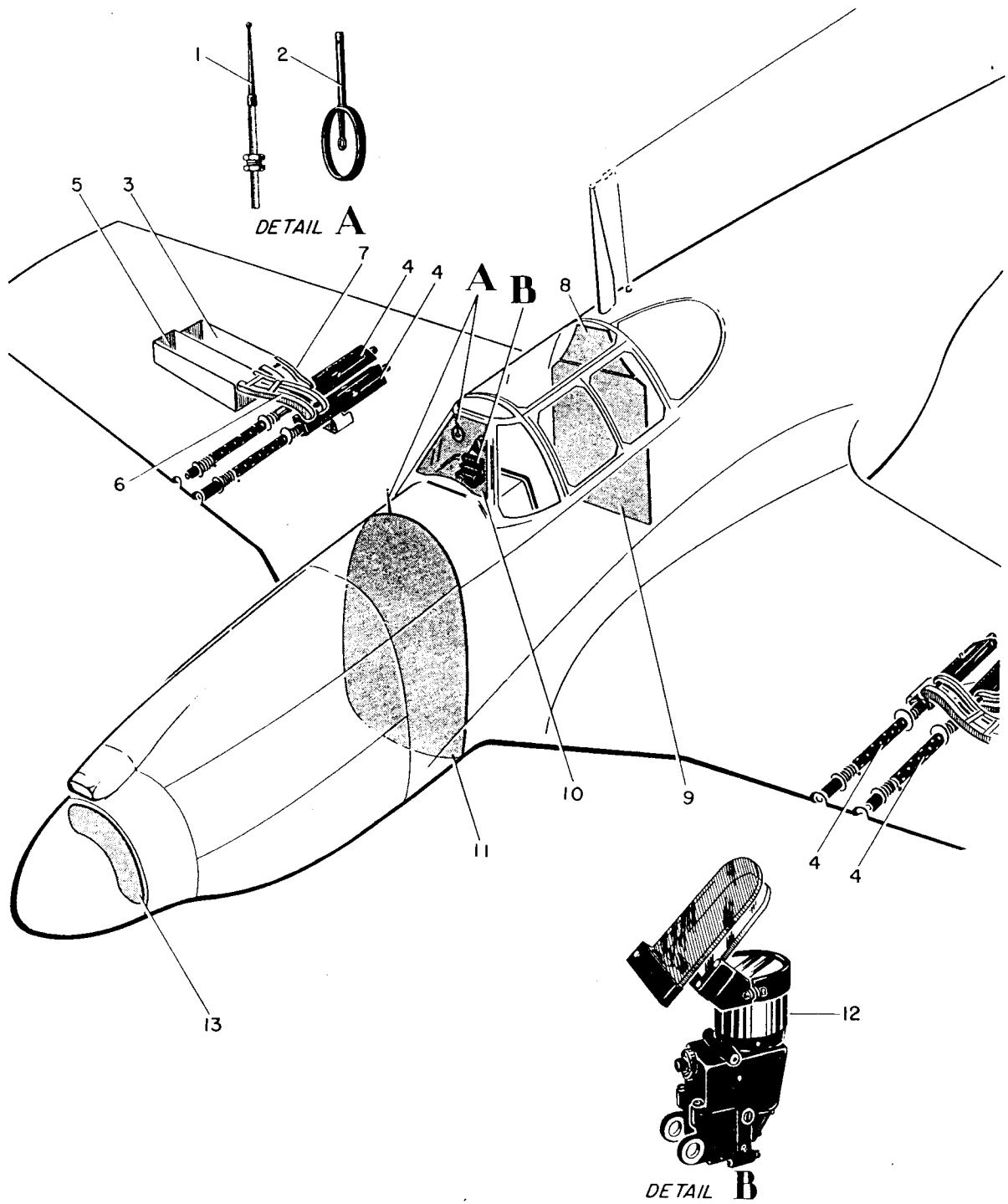


STRUCTURAL EXPLODED VIEW

ARMAMENT

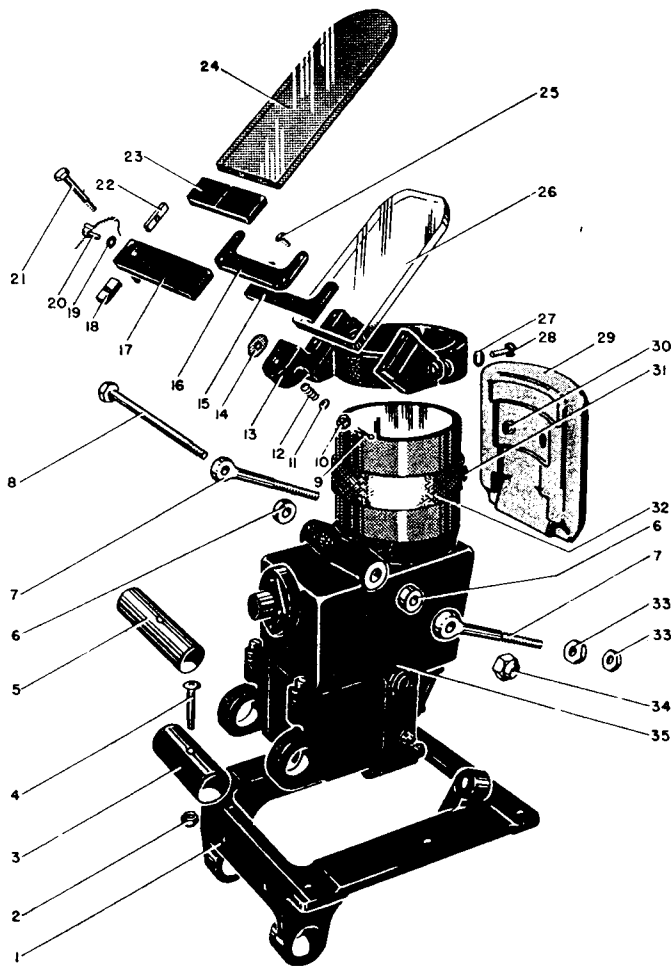
FIGURE No. 1

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|-------------|--|----------|
| 1 | 73-61017 | Sight - Auxiliary Bead | 1 | | 97-61105 | Chute - Inboard Feed L.H. (See Fig. No. 5) | |
| 2 | 73-61015 | Sight - Auxiliary Ring | 1 | | | | |
| 3 | 97-61142-1 | Ammunition Box - 50 Caliber Rear R.H.(See Fig. No. 5) | | 7 | 97-61104-1 | Chute - Gun Outboard Feed L.H. (See Fig. No. 5) | |
| | 97-61142 | Ammunition Box - 50 Caliber Rear L.H.(See Fig. No. 5) | | | 97-61104 | Chute - Gun Outboard Feed R.H. (See Fig. No. 5) | |
| 4 | H398-5352 | Type M2 Machine Gun 50 Caliber (G.F.E.) | 4 | 8 | 73-53096-3 | Plate - Pilot's Rear Head Armor | 1 |
| | | | | 9 | 73-53096-2 | Plate - Pilot's Rear Armor | 1 |
| 5 | 97-61141-1 | Ammunition Box - 50 Caliber Front R.H.(See Fig. No. 5) | | 10 | 83-31828 | Windshield - Bullet Proof | 1 |
| | 97-61141 | Ammunition Box - 50 Caliber Front L.H.(See Fig. No. 5) | | 11 | 73-31102-30 | Firewall - Armor Plate | 1 |
| | | | | 12 | N3A | Sight - Gun (See Fig. No. 2) | |
| 6 | 97-61105-1 | Chute - Inboard Feed R.H. (See Fig. No. 5) | | 13 | 73-46084 | Plate - Coolant Tank Armor | 1 |



ARMAMENT

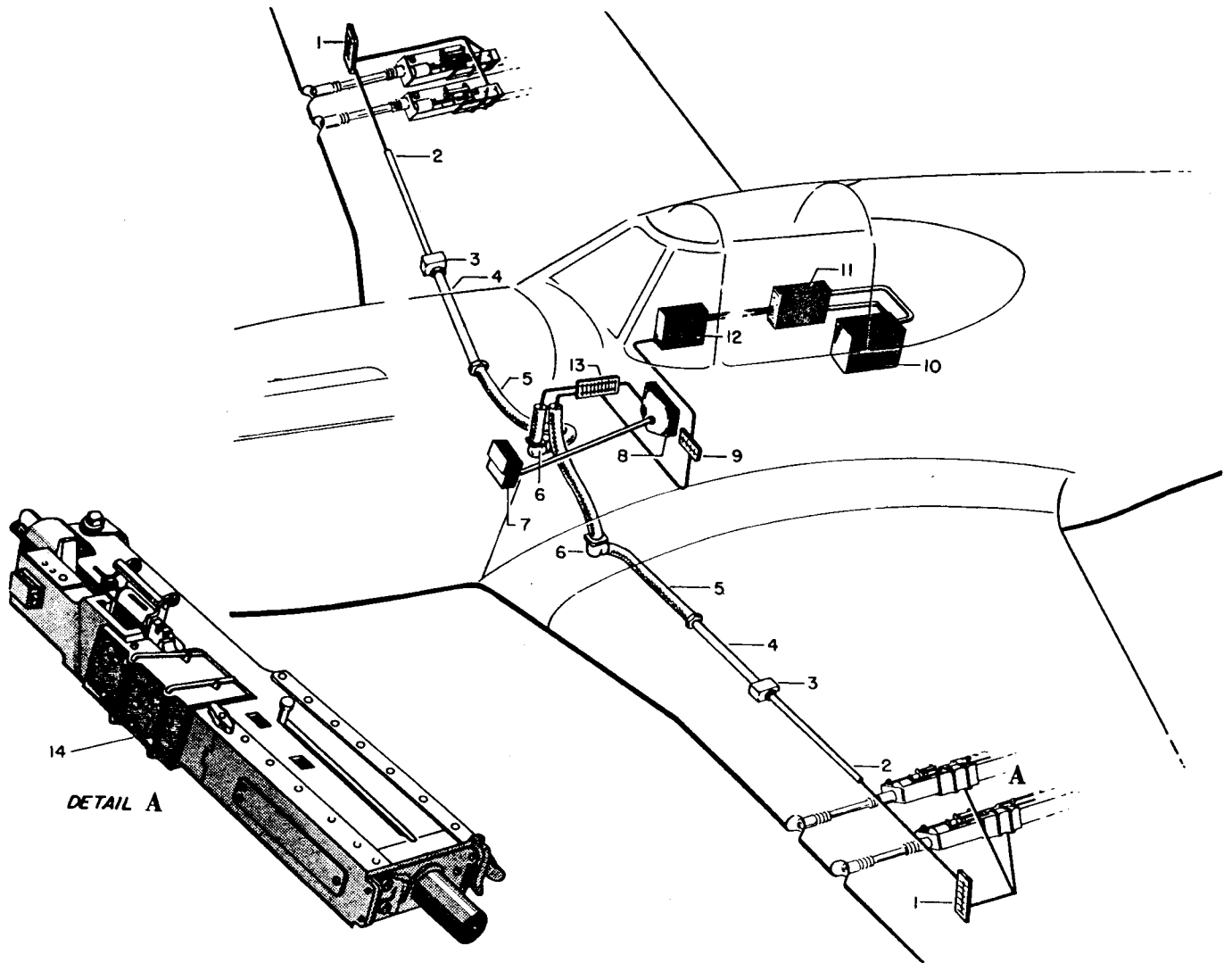
FIGURE No. 1



GUN SIGHT AND FITTINGS

FIGURE No. 2

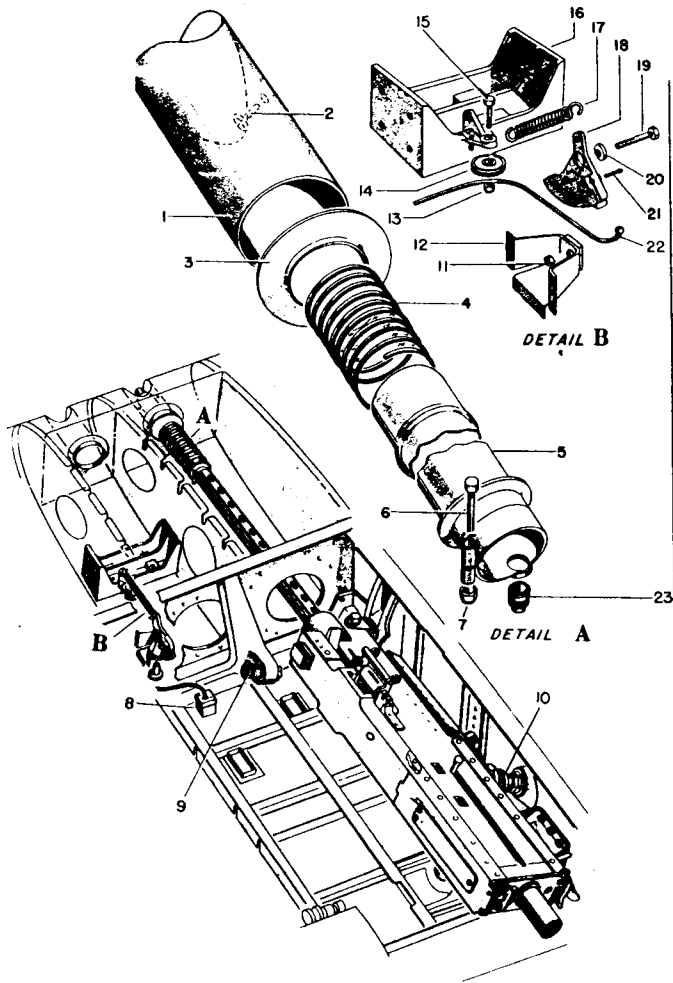
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|----------------|--|----------|---------|-------------|-------------------------------------|----------|
| 1 | 91-61191 | Fitting - Fixed Gun Sight Support | 1 | 18 | 91-61116 | Filler - Gun Sight Sunscreen Frame | 1 |
| 2 | AC365-1032 | Nut | 1 | 19 | AN935-8 | Washer | 1 |
| 3 | 73-61190 | Tube - Gun Sight Support Spacer | 1 | 20 | AC500-8-6 | Screw | 1 |
| 4 | B1286-10-18 | Screw | 1 | 21 | AN3-13 | Bolt | 1 |
| 5 | 73-61189 | Tube - Gun Sight Bearing Pivot | 1 | 22 | 91-61087-3 | Filler - Gun Sight Sunscreen Frame | 1 |
| 6 | B1070-516-6 | Spacer | 2 | 23 | 91-61088-2 | Rubber - Gun Sight Sunscreen Frame | 1 |
| 7 | 73-61188 | Eyebolt - Gun Sight Adjustment | 2 | 24 | 97-61089 | Sunscreen - Gun Sight | 1 |
| 8 | AN5-40A | Bolt | 1 | 25 | B1286-8-7 | Screw | 4 |
| 9 | AN380-2-2 | Pin | 1 | 26 | 91-61086 | Image Reflector - Gun Sight | 1 |
| 10 | AN310-3 | Nut | 1 | 27 | AN935-10 | Washer | 1 |
| 11 | AN960-10L | Washer | 1 | 28 | AC503-10-12 | Screw | 1 |
| 12 | 28-34043 | Spring - Image Reflector Support | 1 | 29 | 91-61117 | Crash Pad - Gun Sight | 1 |
| 13 | 91-61085 | Support - Gun Sight Image Reflector | 1 | 30 | AC224-1 | Button | 2 |
| 14 | B985F-13-32-62 | Washer | 1 | 31 | AC224-2 | Socket | 2 |
| 15 | 91-61092-2 | Rubber - Image Reflector Retaining Plate | 1 | 32 | 91-61122 | Strap - Gun Sight Crash Pad | 1 |
| 16 | 91-61115 | Plate - Image Reflector Retaining | 1 | 33 | AN316-4R | Nut | 4 |
| 17 | 91-61087 | Frame - Gun Sight Sunscreen | 1 | 34 | AC365-52A | Nut | 1 |
| | | | | 35 | N3-A | Gun Sight - Fixed Gunsight (G.F.E.) | 1 |



ELECTRICAL GUN HEATER SYSTEM

FIGURE No. 3

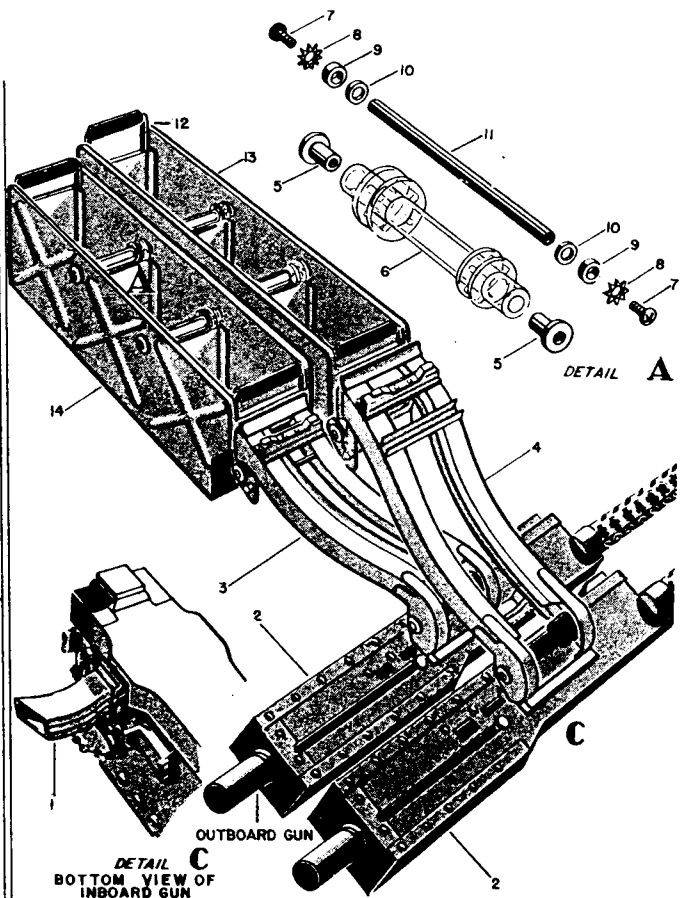
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|------------------|---|----------|---------|-------------|--|----------|
| 1 | B13660-8-10 | Terminal Blocks | 2 | 2 | NK-AL-1BN | Wing Plugs Shell (Cannon) | 2 |
| 2 | 97-54856 | Conduit - Station 49 To Gun Bay Junction Box L.H. | 1 | | 1071 | Wing Plugs Coupler (Little Fuse) (Used On R.H. Only) | 1 |
| | 97-54857 | Conduit - Station 49 To Gun Bay Junction Box R.H. | 1 | 7 | 99-54017 | Box - Power Connector (See Fig. No. 9) | |
| 3 | 99-54215 | Box - Wing Station 49 Pull L.H. | 1 | 8 | 97-54003-4 | Box - Pilot's Switch (See Fig. No. 10) | |
| | 99-54215-1 | Box - Wing Station 49 Pull R.H. | 1 | 9 | 97-54135 | Armament Control Panel (See Fig. No. 10) | |
| | B1287-8-7 | Screw | 4 | 10 | Spec.X32234 | Battery - 24V. Type G-1 (G.F.E.) (See Fig. No. 10) | |
| | 420-M-1 | Speed - Nut | 4 | 11 | 99-54063 | Box - Power Switch | 1 |
| 4 | 91-54851 | Conduit - Disconnect Plug To Pull Box | 2 | 12 | 99-54068 | Box - Main Fuse (See Fig. No. 10) | |
| 5 | 25-54080-8AG-240 | Conduit - Flexible | 2 | 13 | B13660-8-8 | Terminal Block | 2 |
| 6 | NK-15L-32SL | Wing Plugs (Cannon) | 2 | 14 | 102-961018 | Electric Gun Heater - Wing | 1 |



BLAST TUBES AND BOMB RACK CONTROLS

FIGURE No. 4

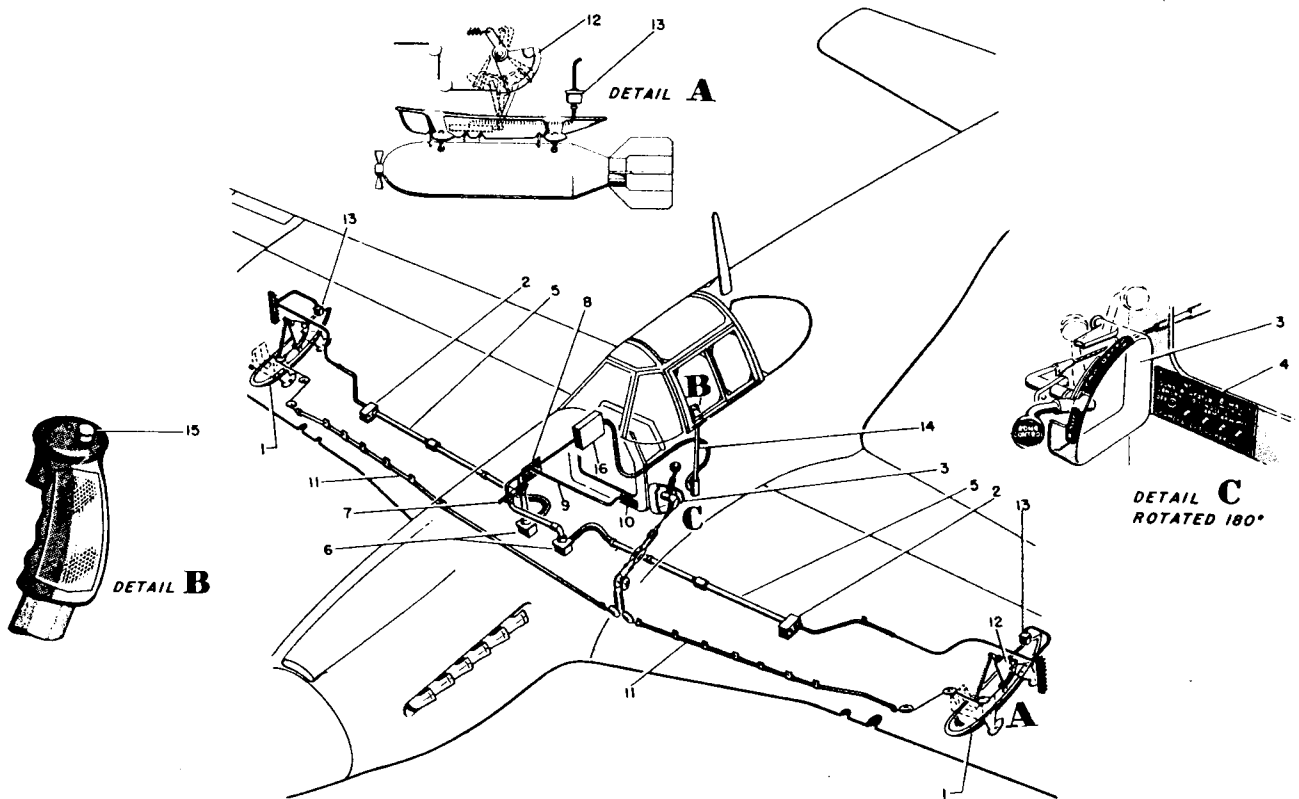
| REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|-----------------------------------|----------|
| 1 | 97-61327-5 | Sleeve - Blast Tube R.H. | 1 |
| | 97-61327-9 | Sleeve - Blast Tube L.H. | 1 |
| | 97-61327-3 | Sleeve - Blast Tube R.H. | 1 |
| | 97-61327-2 | Sleeve - Blast Tube L.H. | 1 |
| 2 | Bi251-1032-2 | Screw - Recessed Button Head | 4 |
| 3 | 97-61308 | Collar - Gun Blast Tube | 4 |
| 4 | 97-61309 | Spring - Gun Blast Tube | 4 |
| 5 | 97-61306 | Retainer - Collar Spring | 4 |
| 6 | AN4-16A | Bolt | 4 |
| 7 | AC365-428 | Nut | 4 |
| 8 | 97-54229 | Cover - Disconnect Box L.H. | 1 |
| | 97-54229-1 | Cover - Disconnect Box R.H. | 1 |
| 9 | 97-61009 | Gun Post - Fixed Gun Trunnion | 4 |
| 10 | 38B-1942 | Trunnion And Post (G.F.E.) | 4 |
| 11 | AC365-1032 | Nut | 2 |
| 12 | 97-63070 | Bracket - Sector Support | 2 |
| 13 | AC365-1032 | Nut | 2 |
| 14 | AN210-1A | Pulley | 2 |
| 15 | AN3-7A | Bolt | 2 |
| 16 | 97-63011 | Bracket - Front Support L.H. | 1 |
| | 97-63011-1 | Bracket - Front Support R.H. | 1 |
| 17 | 97-63062 | Spring - Actuating Bracket | 2 |
| 18 | 97-63059-2 | Sector Assem. - Actuating L.H. | 1 |
| | 97-63059-3 | Sector Assem. - Actuating R.H. | 1 |
| 19 | AN3-5A | Bolt | 2 |
| 20 | AN201K3A | Bearing | 2 |
| 21 | AN380-2-3 | Pin | 2 |
| 22 | 97-63066 | Cable - Bomb Release Control L.H. | 1 |
| | 97-63067 | Cable - Bomb Release Control R.H. | 1 |
| 23 | 97-61348 | Plug - Tube Retaining | 1 |



WING AMMUNITION BOXES AND CHUTES

FIGURE No. 5

| REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|
| 1 | 97-61314 | Link Chute - Inboard Gun Link Ejection L.H. | 1 |
| | 97-61113 | Link Chute - Outboard Gun Link Ejection L.H. | 1 |
| | 97-61314-1 | Link Chute - Inboard Gun Link Ejection R.H. | 1 |
| | 97-61113-1 | Link Chute - Outboard Gun Link Ejection R.H. | 1 |
| 2 | 39G5332 | Aircraft Machine Gun (G.F.E.) | 3 |
| | 97-61104 | Chute - Outboard Feed L.H. | 1 |
| | 97-61104-1 | Chute - Outboard Feed R.H. | 1 |
| 4 | 97-61105 | Chute - Inboard Feed L.H. | 1 |
| | 97-61105-1 | Chute - Inboard Feed R.H. | 1 |
| 5 | F-409-2 | Bushings - Ammunition Box And Feed Chute Roller | 16 |
| 6 | B1385 | Roller - Ammunition Box And Feed Chute | 8 |
| 7 | B1286-10-8 | Screw | 16 |
| 8 | 4010-18 | Washer - Ammunition Box And Feed Chute Roller | 16 |
| 9 | B1070-10-3 | Spacer | 16 |
| 10 | AN960-10L | Washer | 16 |
| 11 | 97-61346 | Spacer - Ammunition Box And Feed Chute Roller | 8 |
| 12 | 97-61144 | Handle - Wing 50 Caliber Gun Ammunition Box Rear | 2 |
| | 73-61144 | Handle - Wing 50 Caliber Gun Ammunition Box Front | 6 |
| 13 | 97-61141 | Ammunition Box - Wing 50 Caliber Fixed Gun Front L.H. | 1 |
| | 97-61141-1 | Ammunition Box - Wing 50 Caliber Fixed Gun Front R.H. | 1 |
| 14 | 97-61142 | Ammunition Box - Wing 50 Caliber Fixed Gun Rear L.H. | 1 |
| | 97-61142-1 | Ammunition Box - Wing 50 Caliber Fixed Gun Rear R.H. | 1 |

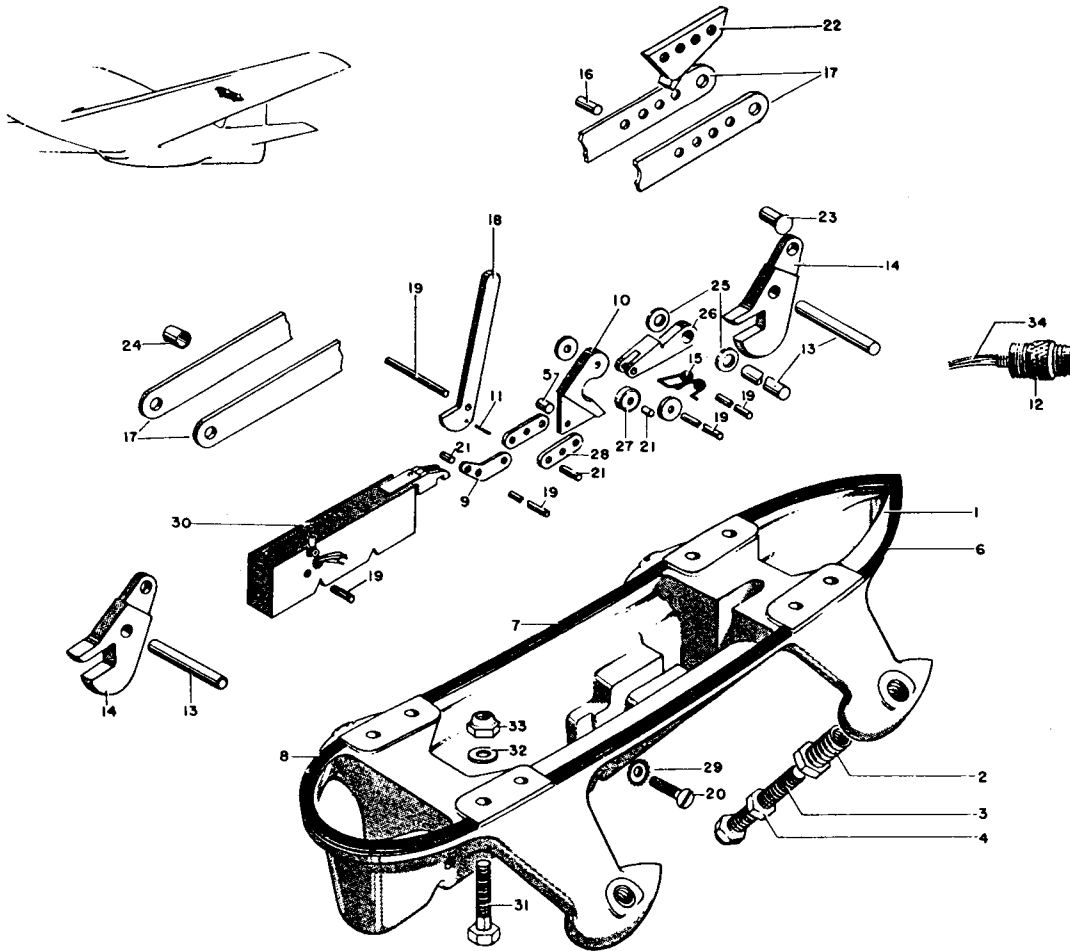


ARMAMENT-BOMB RACK INSTALLATION

FIGURE No. 6

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|-------------|--|----------|
| 1 | +97-63002 | Bomb Rack Complete (See Fig. No. 7) | 1 | 12 | 99-63067 | Cable - Bomb Release R.H. | 1 |
| 2 | 97-63002-5 | Bomb Rack Complete (See Fig. No. 7) | 1 | | 97-63059-2 | Sector Assem. - Bomb Rack Control | 1 |
| | 99-54215 | Wing Pull Box L.H. | 1 | | | Actuating L.H. | 1 |
| 3 | 97-54215-1 | Wing Pull Box R.H. | 1 | | 97-63059-3 | Sector Assem. - Bomb Rack Control | 1 |
| | 97-63064 | Bomb Rack Quadrant And Lever | 1 | | | Actuating R.H. | 1 |
| 4 | 97-63060 | Bomb Rack Quadrant And Lever | 1 | 13 | 35A-4269 | Bomb Rack Socket (Breeze) | 2 |
| | 97-54135 | Panel Assem. - Armament Control | 1 | 14 | 97-52102 | Stick - Pilot's Control | 1 |
| 5 | 91-54851 | Conduit - Wing Disconnect Plug To Pull Box | 2 | 15 | 41A8952 | Electrical Release Button Bomb Control | 1 |
| 6 | NK-15L-32SL | Break - Wing Fuselage | 2 | 16 | 99-54063 | Box Assem. - Right Switch | 1 |
| 7 | 97-54016 | Bracket - Right Conduit Supporting | 1 | | | | |
| 8 | B1366-C-8-8 | Terminal Block | 2 | | | | |
| 9 | #185 | Wire | 1 | | | | |
| 10 | 97-54135 | Panel - Armament Control | 1 | | | | |
| 11 | 99-63066 | Cable - Bomb Release L.H. | 1 | | | | |

Note: + Used On Airplane Block Designation P-51A-5-NA And Subs. Blocks.
 • Used On Airplane Block Designation P-51A-1-NA.

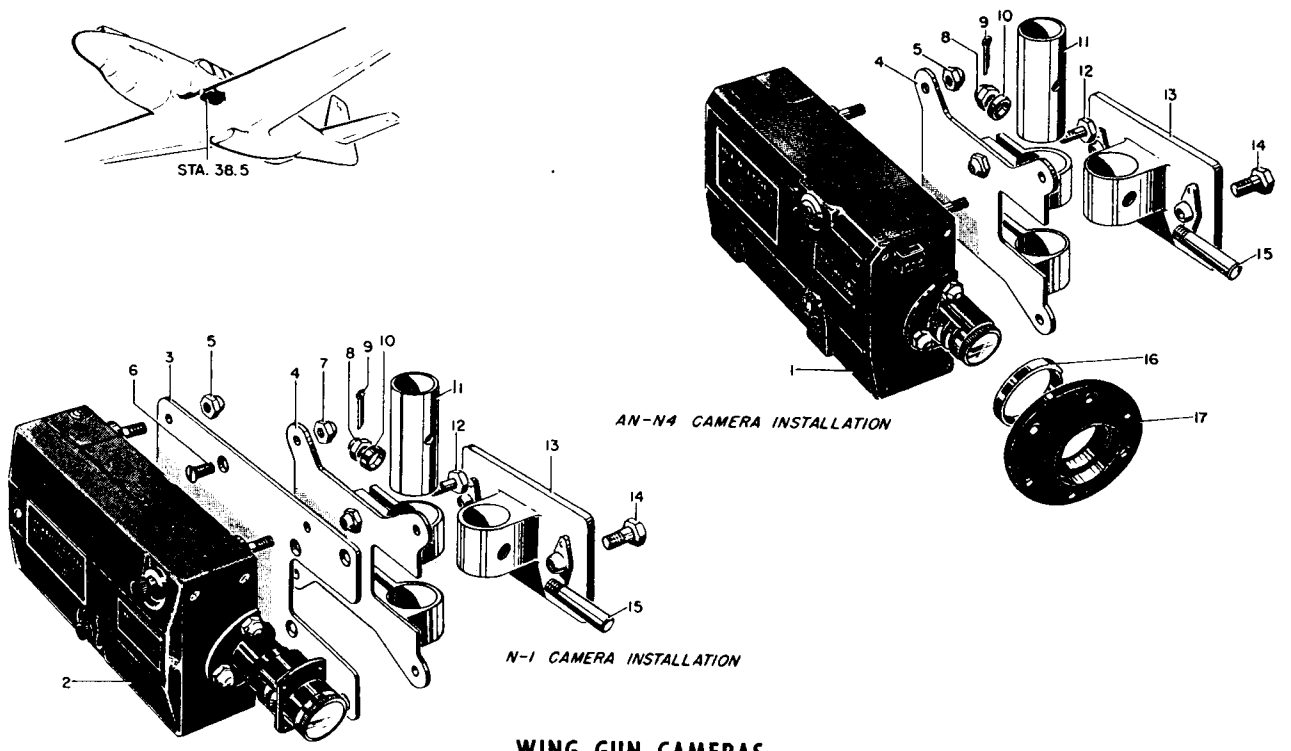


BOMB RACK

FIGURE No. 7

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|---------------|--|----------|
| | +97-63002 | Bomb Rack Complete | 2 | 20 | B1248-1032-12 | Screw | 4 |
| | e97-63002-5 | Bomb Rack Complete | 2 | 21 | 97-63045 | Pin - Bomb Rack Release Mechanism Roller Attaching | 10 |
| 1 | +97-63013 | Housing - Bomb Rack L.H. | 2 | 22 | 97-63043 | Stop - Bomb Rack Release Mechanism Tumbler | 2 |
| | e97-63013-2 | Housing - Bomb Rack R.H. | 2 | 23 | 97-63050 | Rivet - Front And Rear Hook And Link Attaching | 4 |
| 2 | 97-63018 | Insert - Bomb Rack Sway Brace | 8 | 24 | 97-63049 | Spacer - Front And Rear Bomb Hook | 4 |
| 3 | 97-63016 | Bolt - Bomb Rack Sway Brace | 8 | 25 | AN960-516 | Washer | 4 |
| | 99-63016 | Bolt - Bomb Rack Sway Brace | 8 | 26 | 97-63030 | Tumbler - Bomb Rack Release Mechanism | 2 |
| 4 | AN316-6R | Nut | 8 | 27 | 97-63031 | Roller - Release Mechanism Tumbler | 2 |
| 5 | 97-63044 | Spacer - Bomb Rack Lock And Arm Link | 4 | 28 | 97-63036 | Link - Release Mechanism Lock & Arm | 4 |
| 6 | 97-63002-3 | Strip - Neoprene | 2 | 29 | #10x100°-CSK | Washer - Commercial Shakeproof Lock | 2 |
| 7 | 97-63002-2 | Strip - Neoprene | 4 | 30 | 97-63041 | Solenoid - Bomb Release | 2 |
| 8 | 97-63002-4 | Strip - Neoprene | 2 | 31 | eAN5-23A | Bolt - Front | 8 |
| 9 | 97-63027 | Arm - Bomb Rack Release Mechanism | 2 | | eAN5-21A | Bolt - Rear | 8 |
| 10 | 97-63028 | Lock - Bomb Rack Release Mechanism | 2 | | +AN5-28A | Bolt - Front | 8 |
| 11 | 97-63047 | Rod - Bomb Rack Cocking Arm | 2 | | +AN5-26A | Bolt - Rear | 8 |
| 12 | E1002-3-160 | Electric Plug (Breeze) | 2 | 32 | AN960-516 | Washer | 16 |
| 13 | 97-63085 | Pin - Bomb Rack 5/16 Diameter | 6 | 33 | AN365-524 | Nut | 16 |
| 14 | 97-63033 | Hook - Bomb Rack Bomb | 4 | | | | |
| 15 | 97-63039 | Spring - Bomb Rack Release Mechanism Tumbler | 2 | | | | |
| 16 | 97-63074 | Rivet - Bomb Rack Release Mechanism Tumbler Stop Attaching | 8 | | | | |
| 17 | 97-63034 | Link - Bomb Rack Hook Connecting | 4 | | | | |
| 18 | 97-63046 | Arm - Bomb Rack Cocking | 2 | | | | |
| 19 | 97-63014 | Pin - Bomb Rack 3/16 Diameter | 12 | | | | |

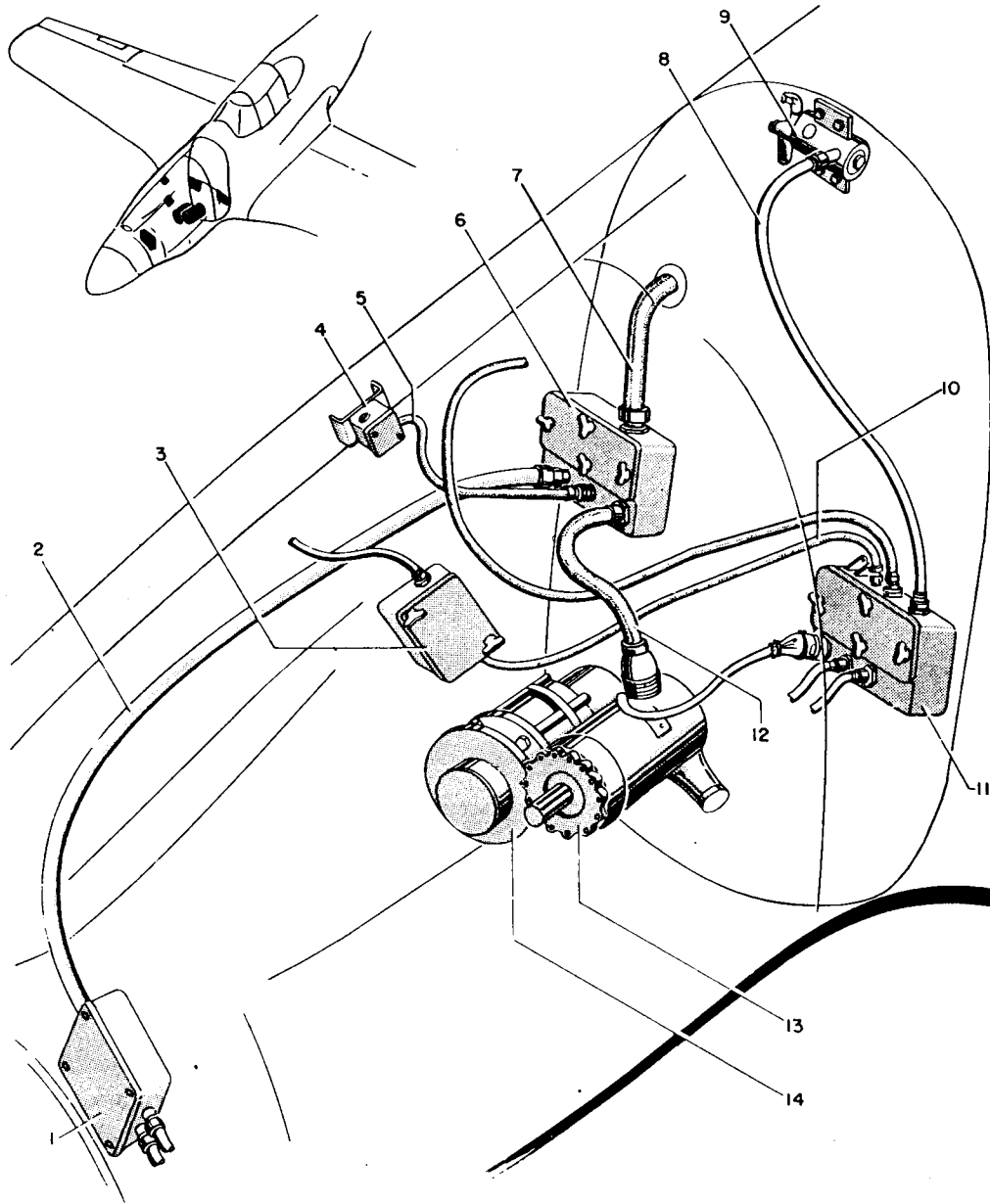
Note: + Used On Airplane Block Designation P-51A-5-NA & Subs. Blocks
e Used On Airplane Block Designation P-51A-1-NA.



WING GUN CAMERAS

FIGURE No. 8

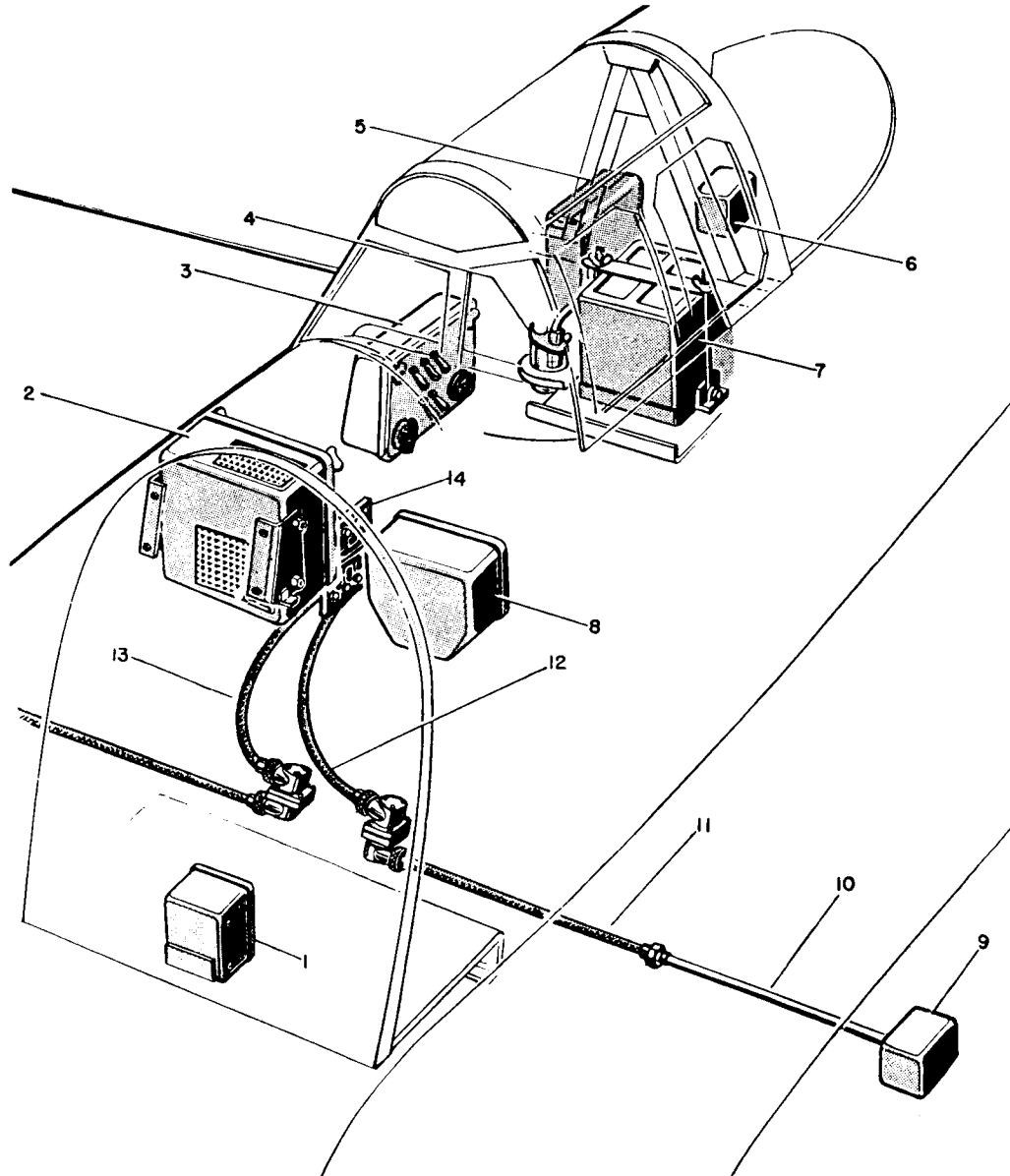
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|--|--------------|---|----------|---------|----------------|---|----------|
| Note: The N-1 Camera and AN-N4 Camera as shown in illustration are optional installations. | | | | | | | |
| 1 | AN-N4 | Camera - Gun (G.F.E.) | 1 | 11 | 83-66012 | Pin - Type N-1 & AN-N4 Mounting Bracket Hinge | 1 |
| 2 | N-1 | Camera - Gun (G.F.E.) | 1 | 12 | AN3-7A | Bolt (N-1 & AN-N4 Camera Instal.) | 2 |
| 3 | 99-66027 | Mount - Type N-1 Gun Camera | 1 | | AN960-10 | Washer (N-1 & AN-N4 Camera Instal.) | 2 |
| 4 | 99-66011 | Bracket - Type N-1 And AN-N4 Upper Mounting | 1 | 13 | 83-66010-2 | Bracket - Type N-1 & AN-N4 Lower Hinge Mounting | 1 |
| | 22D8-02 | Nut - Spline (Elastic) | 2 | | AC366-1032 | Nutplate | 2 |
| 5 | AC365-1032 | Nut (N-1 & AN-N4 Camera Instal.) | 4 | 14 | AN3-5 | Bolt (N-1 & AN-N4 Camera Instal.) | 2 |
| 6 | B1248-1032-9 | Screw (N-1 Camera Instal. Only) | 4 | 15 | AC386-1-8 | Pin (N-1 & AN-N4 Camera Instal.) | 1 |
| 7 | AC365-1032 | Nut (N-1 Camera Instal. Only) | 4 | 16 | 99-66025 | Clip - Mounting Seal (AN-N4 Installation Only) | 1 |
| 8 | AN320-3 | Nut (N-1 & AN-N4 Camera Instal.) | 1 | 17 | 99-66023 | Seal - Mounting (AN-N4 Instal. Only) | 1 |
| 9 | AN380-2-2 | Pin (N-1 & AN-N4 Camera Instal.) | 1 | | B985-AL-18-24- | | |
| 10 | AC975-3 | Washer (N-1 & AN-N4 Camera Instal.) | 1 | | 32 | Washer - (AN-N4 Instal. Only) | 6 |



ENGINE SECTION ELECTRICAL

FIGURE No. 9

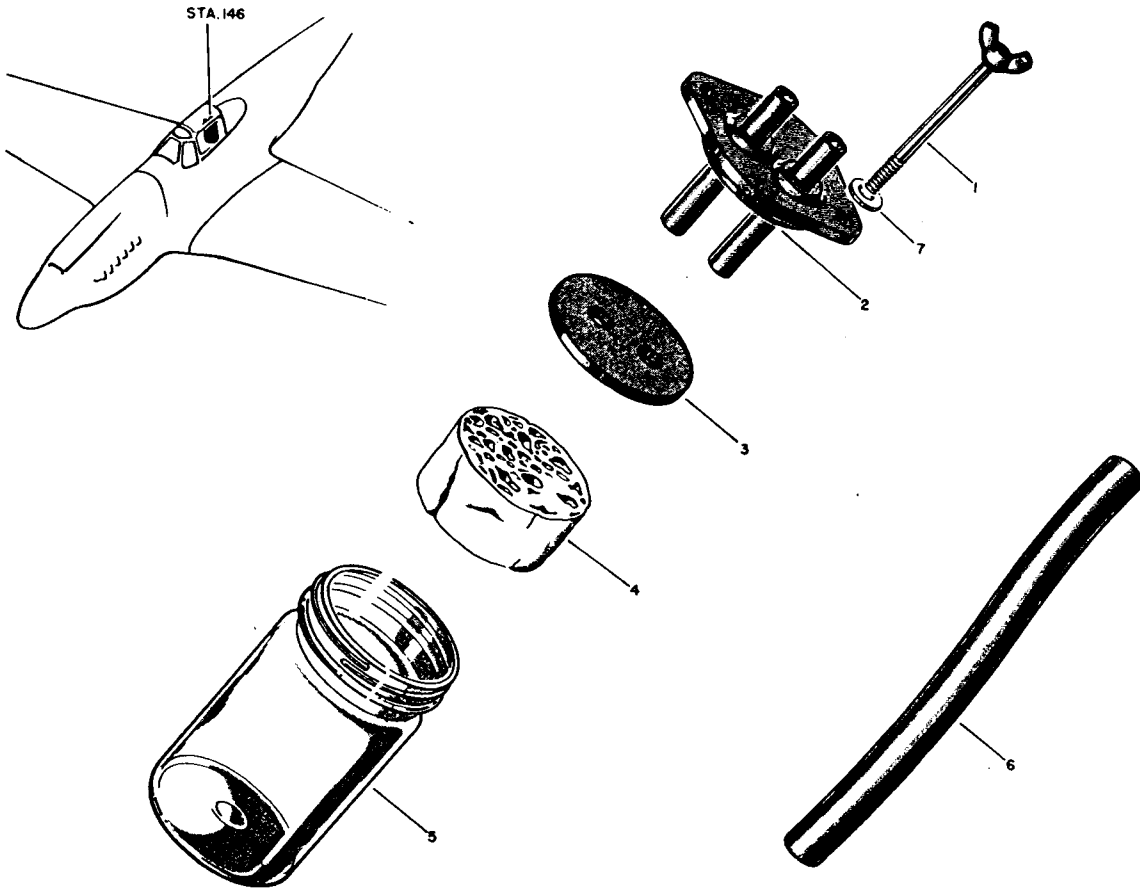
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|------------------|-----------------------------------|----------|---------|------------------|----------------------------------|----------|
| 1 | 102901-37 | Relay - Propeller (G.F.E.) | 1 | 8 | 63-54080-1DD-320 | Conduit - Flexible | 1 |
| 2 | 63-54050-5BB-600 | Conduit - Flexible | 2 | 9 | 37D-6210 | Oil Dilution Solenoid (G.F.E.) | 1 |
| 3 | 99-54044 | Box - Booster Coil | 1 | 10 | 63-54050-1BD-340 | Conduit - Flexible | 1 |
| 4 | 73-54151 | Box - Ignition Pull | 1 | 11 | 99-54017 | Box - Power Plant Connector Left | 1 |
| 5 | 25-54080-3AE-434 | Conduit - Flexible | 1 | 12 | 63-54050-8BB-164 | Conduit - Flexible | 1 |
| 6 | 97-54018 | Box - Power Plant Connector Right | 1 | 13 | Spec.95-32274 | Generator - Type E.O. (G.F.E.) | 1 |
| 7 | 63-54050-5BB-200 | Conduit - Flexible | 1 | 14 | Spec.95-32304 | Starter - Type G-6 (G.F.E.) | 1 |



FUSELAGE ELECTRICAL

FIGURE No. 10

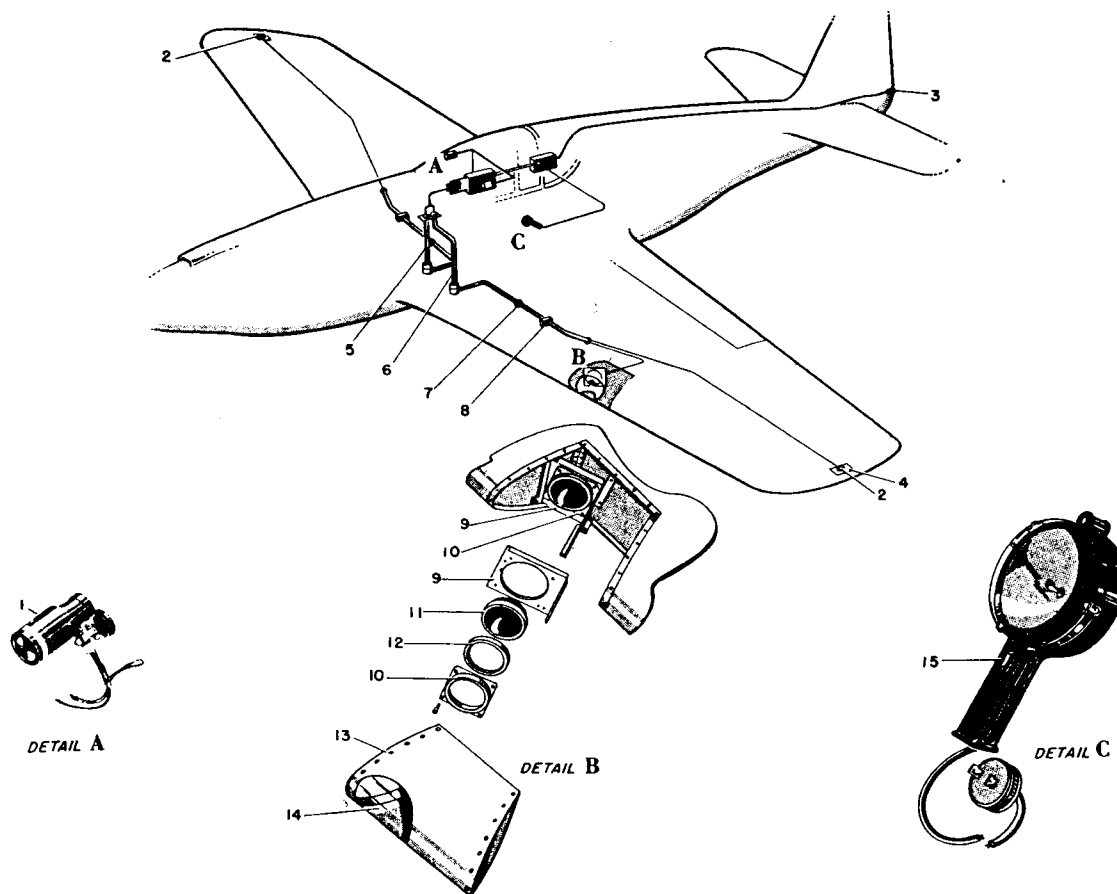
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|------------------|---|----------|
| 1 | 97-54200 | Box - Propeller Filter | 1 | 9 | 99-54215 | Box - Wing Station 49 Pull L.H. | 1 |
| 2 | 99-54171 | Box - Generator Controls | 1 | | 99-54215-1 | Box - Wing Station 49 Pull R.H. | 1 |
| 3 | 99-54068 | Box - Main Fuse | 1 | 10 | 91-54851 | Conduit - Wing Disc. Plug To Wing Station 49 Pull Box | 1 |
| 4 | #3833 | Battery Bottle (Glass Container Inc) (See Fig. No. 11) | | 11 | 25-54080-8AG-240 | Conduit - Flexible | 1 |
| 5 | 99-54063 | Box - Power Switch | 1 | 12 | 63-54050-8BB-250 | Conduit - Flexible | 1 |
| 6 | 99-54104 | External Power Source Receptacle | 1 | 13 | 63-54050-8BB-124 | Conduit - Flexible | 1 |
| 7 | Spec.X32234 | Battery 24V. Type G-1 (G.F.E.) | 1 | 14 | 31356-8-8 | Terminal Block | 1 |
| 8 | 97-54003-4 | Box - Pilot's Switch | 1 | | | | |



BATTERY BOTTLE

FIGURE No. 11

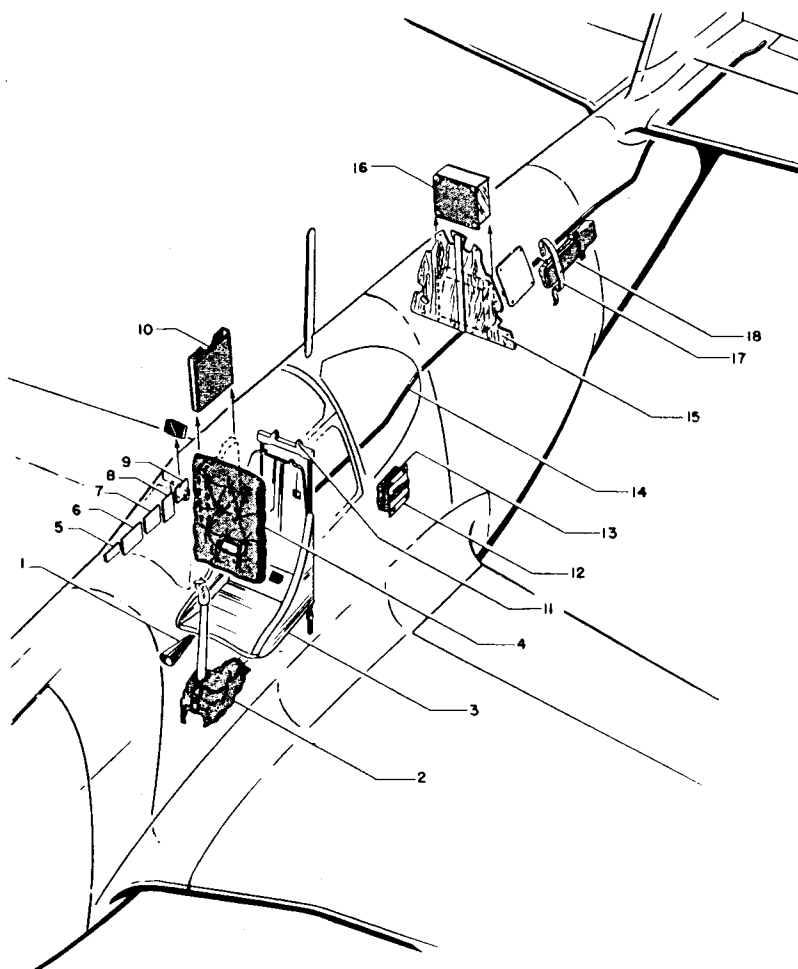
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|----------------------------------|----------|---------|-------------|---|----------|
| 1 | 73-54162 | Bolt - Battery Sump Cover | 2 | 5 | #3833 | Bottle | 1 |
| | AN935-10 | Lockwasher | 2 | 6 | 99-54014 | Tube - Battery Sump To Vent Line Complete | 1 |
| 2 | 99-54161 | Cover - Battery Vent Outlet Sump | 2 | | 73-54013 | Tube - Battery To Battery Sump | 1 |
| 3 | 99-54163 | Seal - Battery Sump | 1 | 7 | AN935-10 | Washer | 2 |
| 4 | 83-54311 | Sponge - Battery Sump | 1 | | | | |



EXTERIOR AND INTERIOR LIGHTS

FIGURE No. 12

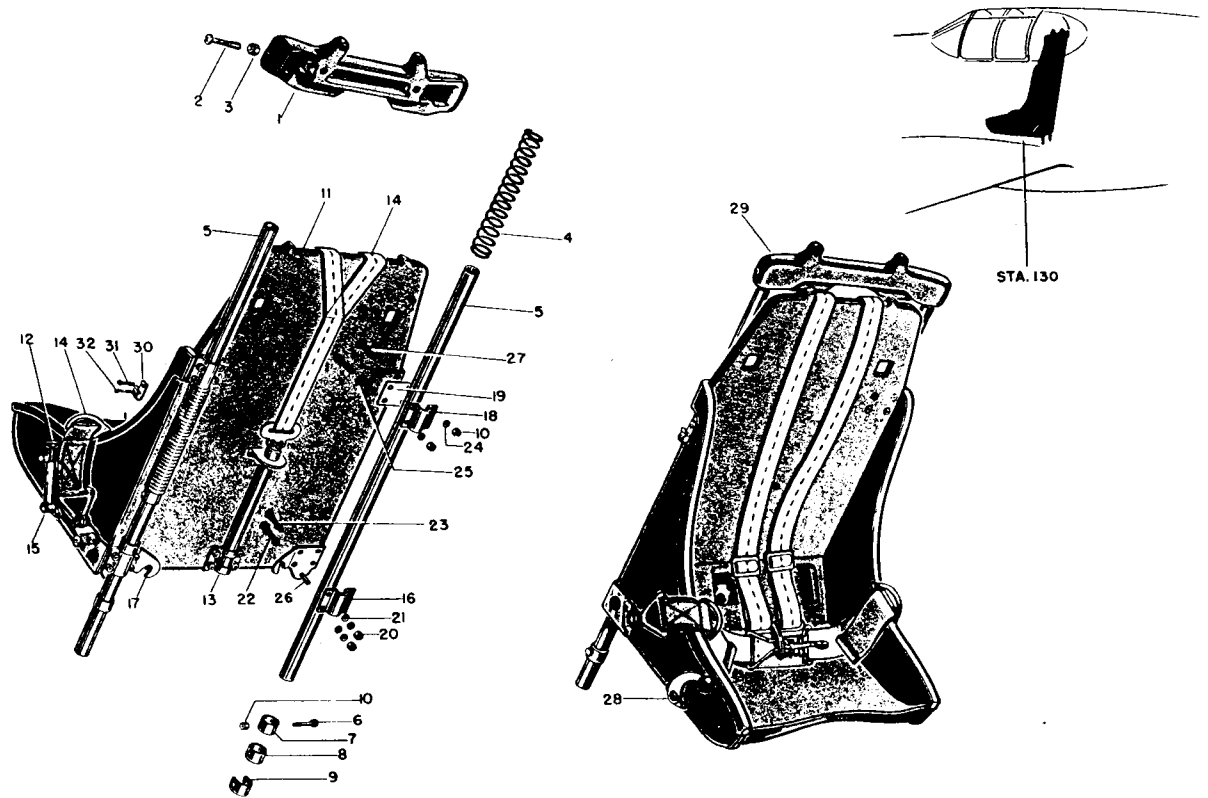
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|------------------|--|----------|---------|------------------|--|----------|
| 1 | AN3089 | Signal - Light (G.F.E.) | 1 | 6 | 63-54050-8BB-250 | Conduit - Flexible | 1 |
| 2 | 37B4962-1 | Lamp - Upper L.H. | 1 | 7 | 91-54851 | Conduit - Disconnect Plug To Pull Box | 1 |
| | 37B4962-2 | Lamp - Upper R.H. | 1 | 8 | 99-54215 | Box - Wing Station 49 Pull L.H. | 1 |
| | 37B4962-3 | Lamp - Lower L.H. | 1 | | 97-54215-1 | Box - Wing Station 49 Pull R.H. | 1 |
| | 37B4962-4 | Lamp - Lower R.H. | 1 | 9 | 97-54234 | Support - Inboard Landing Light | 1 |
| 3 | 97-54166 | Lamp - Rudder Position Type D-1 Signal Light (G.F.E.) | 1 | 10 | 97-54223 | Retainer - Landing Light | 1 |
| 4 | 73-54225 | Cover - Navigation Light Attaching L.H. | 1 | 11 | PAR 4-6 | (250W-24) Sealed Beam Landing Light (G.F.E.) | 1 |
| | 73-54226-1 | Cover - Navigation Light Attaching R.H. | 1 | 12 | 97-54222 | Gasket - Landing Light Complete | 1 |
| 5 | 63-54050-8BB-124 | Conduit - Flexible | 1 | 13 | 97-14122 | Cover - Wing Landing Light Recess | 1 |
| | | | | 14 | 97-14264 | Glass - Wing Landing Light | 1 |
| | | | | 15 | AN3089 | Signal Light (G.F.E.) | 1 |



FURNISHINGS

FIGURE No. 13

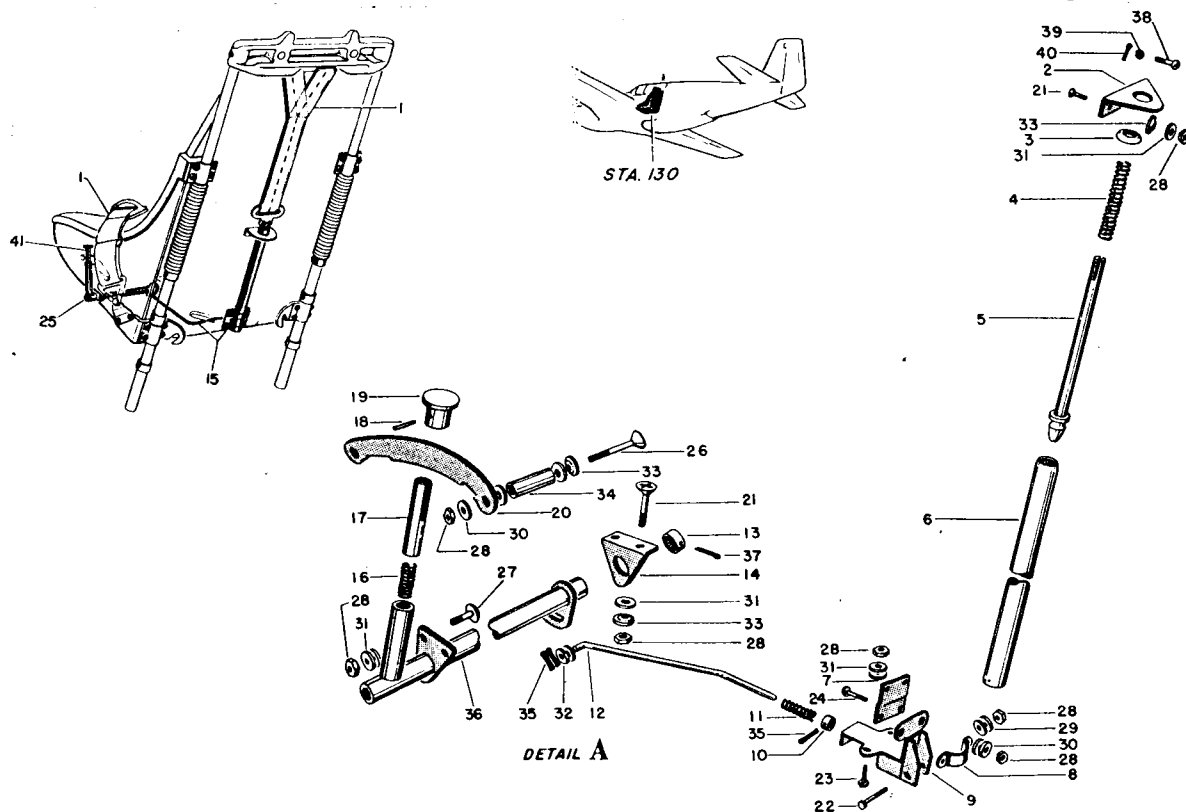
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|-------------|--|----------|
| 1 | 33A4739 | Horn - Relief Tube (G.F.E.) | 1 | 12 | 91-73514 | Support - First Aid Kit Stowage | 2 |
| 2 | 73-53022 | Shroud - Cockpit Control Seat | 1 | 13 | AC97765 | Kit - Medical First Aid (G.F.E.) | 1 |
| 3 | 91-53074 | Seat - Cockpit (See Fig. No. 14) | 1 | 14 | 97-53086-3 | Tube - Pilot's Relief Second Section | 1 |
| 4 | 49-53010 | Cushion - Pilot's Back | 1 | | 97-58084 | Tube - Pilot's Relief First Section | 1 |
| 5 | 73-318146 | Plate - Emergency Release Name | 1 | 15 | 99-53021 | Bulkhead - Fuselage Sta. 200 Cockpit Sealing | 1 |
| 6 | 99-43006 | Plate - Engine Limitations Name | 1 | 16 | 36G2873 | Case - Data | 1 |
| 7 | 73-31303 | Plate - Flight Restrictions Instruction | 1 | 17 | 97-55024 | Strap - Mooring Case Stowage | 1 |
| 8 | 97-53030 | Plate - Airplane And Engine Data | 1 | 18 | | Kit - Mooring Type D-1 (G.F.E.) | 1 |
| 9 | 99-53031 | Plate - Airplane Name | 1 | | | | |
| 10 | 97-53028-10 | Case - Map And Report | 1 | | | | |
| 11 | 99-53010 | Support - Cockpit Seat (See Fig. No. 14) | 1 | | | | |



PILOT'S SEAT COMPLETE

FIGURE No. 14

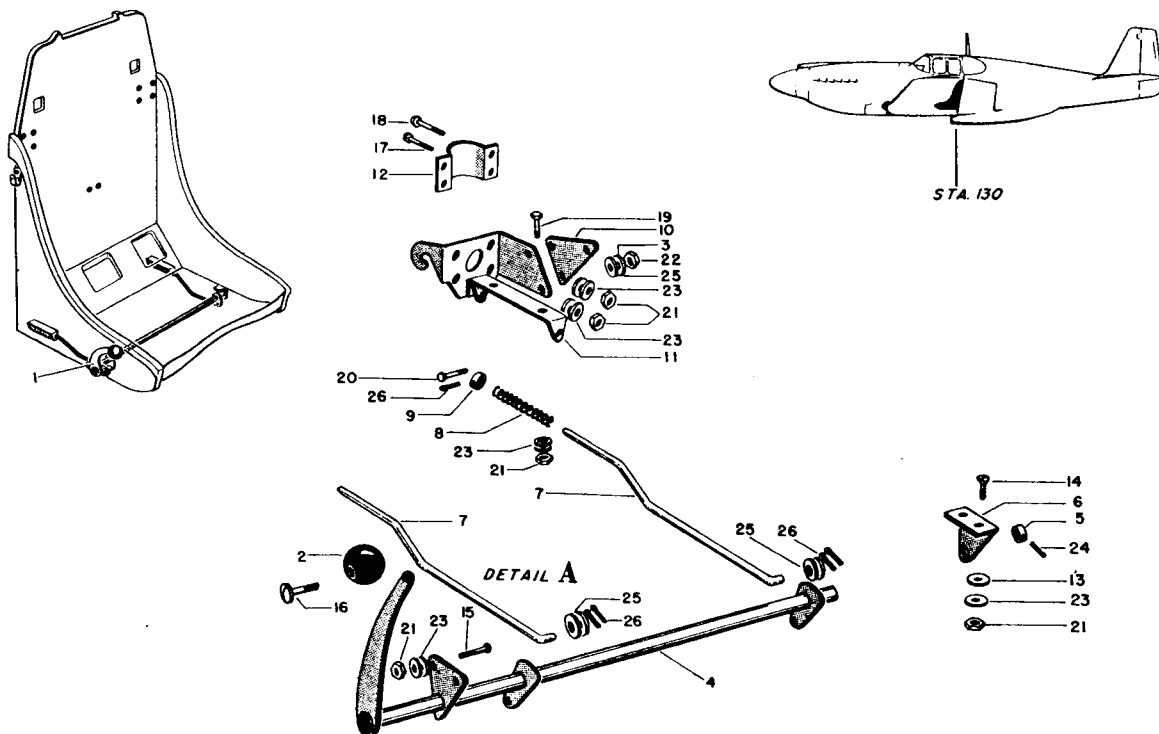
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|--|----------|---------|---------------|---|----------|
| 1 | 99-53010 | Support - Pilot's Seat Tube | 1 | 17 | 91-53217 | Bracket - Seat Shock Chord Attaching (See Fig. No. 16) | |
| 2 | B1251-516-32 | Screw | 2 | 18 | 91-53208 | Bracket - Seat Support Upper | 2 |
| 3 | AC365-524 | Nut | 2 | 19 | 91-53207 | Plate - Seat Support Upper | 2 |
| 4 | 73-53016 | Spring - Pilot's Seat Tube | 2 | 20 | AC365-1032 | Nut - (See Fig. No. 16) | |
| 5 | 91-53014 | Tube - Pilot's Seat Support | 2 | 21 | AN960-10 | Washer (See Fig. No. 16) | |
| 6 | AN3-14A | Bolt | 6 | 22 | AN3-10A | Bolt (See Fig. No. 16) | |
| 7 | 73-53015 | Stop - Pilot's Seat Tube | 2 | 23 | AN3-11A | Bolt (See Fig. No. 16) | |
| 8 | 49-53009 | Stop - Pilot's Seat Tube | 2 | 24 | AN960-10 | Washer | 8 |
| 9 | 19-53045 | Stop - Pilot's Seat Tube | 2 | 25 | 91-53241 | Washer - Seat | 4 |
| 10 | AC365-1032 | Nut | 14 | 26 | 91-53211 | Rod - Seat Engaging (See Fig. No. 16) | 4 |
| 11 | 91-53058 | Seat - Cockpit (Less Fittings) | 1 | 27 | AN3-11A | Bolt | 4 |
| 12 | 91-53250 | Handle - Safety Belt Release (See Fig. No. 15) | | | B1248-1032-18 | Screw | 4 |
| 13 | 91-53220 | Release - Seat Center Safety Belt (See Fig. No. 15) | | 28 | 91-53244 | Lever - Seat (See Fig. No. 16) | |
| 14 | B-11 | Belt - U.S. Army Air Force (See Fig. No. 15) | | 29 | 91-53009 | Seat Assen. - Pilot's Cockpit Complete | 1 |
| 15 | 91-53237 | Shaft - Belt Release Cross Shaft (See Fig. No. 15) | | 30 | B1383 | Clip | 2 |
| 16 | 91-53210 | Bracket - Seat Supporting (See Fig. No. 16) | | 31 | AN545-4-4 | Screw | 2 |
| | | | | 32 | AN545-4-3 | Screw | 2 |



PILOT'S SEAT SAFETY BELT RELEASE

FIGURE No. 15

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|---------------|---|----------|
| 1 | B-11 | Belt - U.S. Army Air Force 4168725 Harness (G.F.E.) | 1 | 17 | 91-53251 | Tube - Seat Center Belt Release Handle | 1 |
| 2 | 91-53229 | Bracket - Seat Center Belt Tube Support | 1 | 18 | 91-53228 | Pin - Seat Center Belt Release Handle | 1 |
| 3 | 91-53232 | Insert - Seat Center Belt Release Tube | 1 | 19 | 91-53252 | Knob - Seat Center Belt Release Handle | 1 |
| 4 | 91-53233 | Spring - Seat Center Release Tube | 1 | 20 | 91-53214 | Guide - Seat Center Belt Release Handle | 1 |
| 5 | 91-53225 | Plunger - Seat Center Safety Belt | 1 | 21 | B1248-1032-11 | Screw | 4 |
| 6 | 91-53236 | Tube - Seat Center Safety Belt Guide | 1 | 22 | AN3A-13 | Bolt | 1 |
| 7 | 91-53216 | Fitting - Seat Center Belt Attaching | 1 | 23 | AN3-6A | Bolt | 2 |
| 8 | 91-53209 | Bracket - Seat Center Safety Belt Release | 1 | 24 | AN3-15A | Bolt | 2 |
| 9 | 91-53221 | Fitting - Seat Safety Belt Center Attaching | 1 | 25 | 91-53237 | Shaft Assem. - Seat Center Belt Release Cross | 1 |
| 10 | 91-53212 | Stop - Seat Center Belt Release Bolt | 1 | 26 | B1248-1032-22 | Screw | 2 |
| 11 | 91-53235 | Spring - Seat Center Belt Release Bolt | 1 | 27 | B1251-1032-10 | Screw | 2 |
| 12 | 91-53234 | Rod - Seat Center Belt Release | 1 | 28 | AC365-1032 | Nut | 13 |
| 13 | 91-53247 | Stop - Seat Center Belt Release | 1 | 29 | AN940-316 | Washer | 2 |
| 14 | 91-53238 | Bracket - Seat Center Belt Release | 1 | 30 | B985-13-16-49 | Washer | 10 |
| 15 | 91-53220 | Release Assem. - Seat Center Safety Belt | 1 | 31 | AN960-10 | Washer | 12 |
| 16 | 91-53215 | Spring - Seat Center Belt Release Handle | 1 | 32 | AN960-416 | Washer | 2 |
| | | | | 33 | 91-53241 | Washer - Seat | 6 |
| | | | | 34 | B1071-6-25 | Spacer | 2 |
| | | | | 35 | AN380-3-2 | Pin - Cotter | 3 |
| | | | | 36 | 91-53239 | Shaft - Seat Center Belt Release | 1 |
| | | | | 37 | AN380-3-3 | Pin - Cotter | 1 |
| | | | | 38 | AN23-14 | Bolt - Clevis | 1 |
| | | | | 39 | AN320-3 | Nut - Shear | 1 |
| | | | | 40 | AN380-2-2 | Pin - Cotter | 1 |
| | | | | 41 | 91-53250 | Handle Assem. - Seat Center Belt Release | 1 |



PILOT'S SEAT ADJUSTMENT

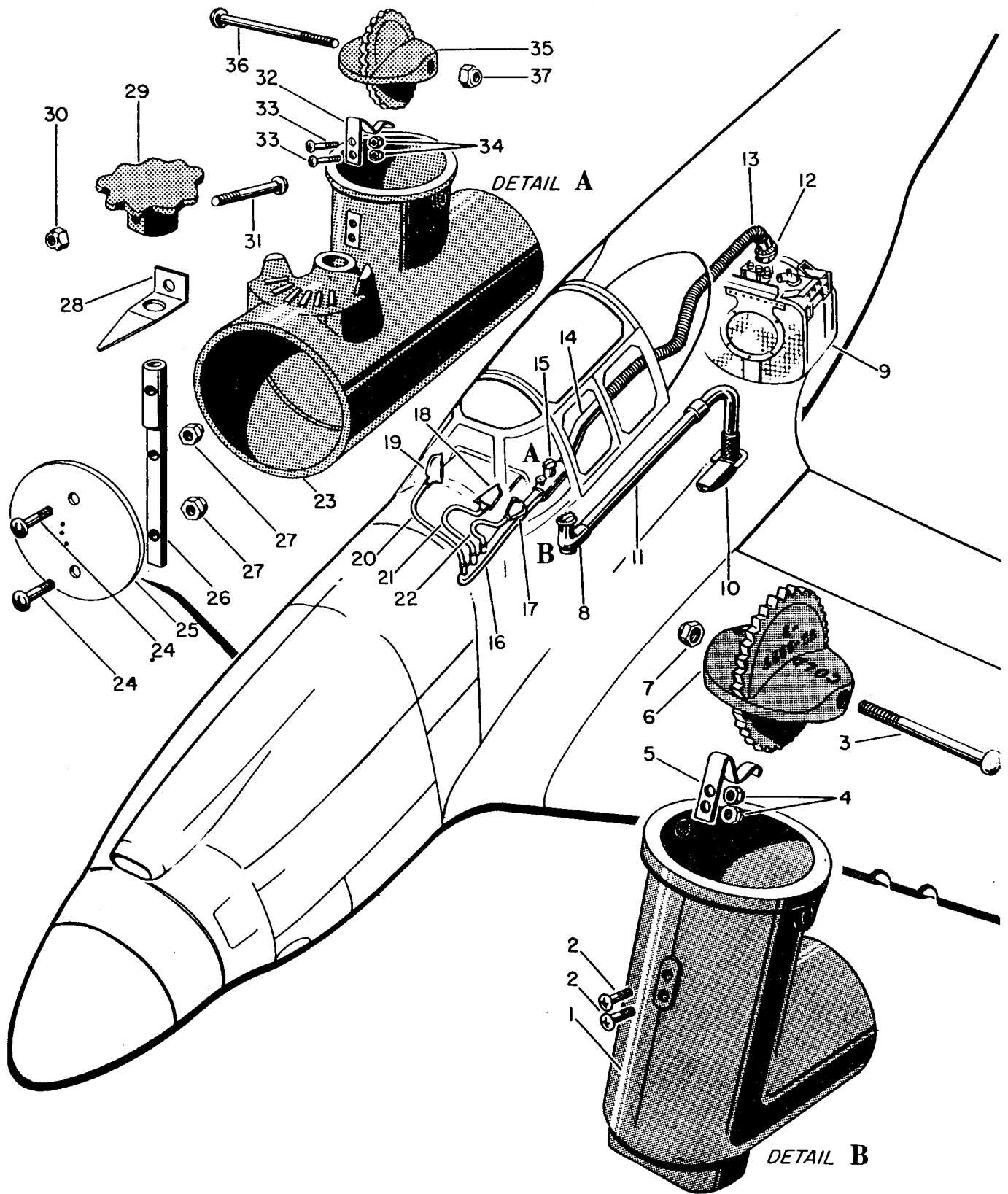
FIGURE No. 16

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|---------------|--|----------|---------|---------------|---|----------|
| 1 | 91-53244 | Lever Assem. - Cockpit Seat | 1 | | 91-53217-1 | Bracket - Seat Shock Chord Attaching R.H. | 1 |
| 2 | AR-4413MS | Knob - Tealite I (Modern Plastic Co., 4641 Pacific Blvd., Los Angeles, Calif.) | 1 | 12 | 91-53210 | Bracket - Seat Supporting Lower | 2 |
| 3 | B985-17-12-64 | Washer | 4 | 13 | 91-53241 | Washer - Seat | 2 |
| 4 | 91-53245 | Tube - Seat Cross Shaft | 1 | 14 | B1248-1032-11 | Screw | 2 |
| 5 | 91-53247 | Stop - Seat Cross Shaft | 1 | 15 | B1251-1032-10 | Screw | 2 |
| 6 | 91-53238 | Bracket - Seat Cross Shaft Support | 1 | 16 | AN510-10-12 | Screw | 1 |
| 7 | 91-53211 | Rod - Seat Engaging | 2 | 17 | AN3-11A | Bolt - Lower | 4 |
| 8 | 91-53213 | Spring - Seat Engaging Rod Return | 2 | 18 | AN3-10A | Bolt - Upper | 4 |
| 9 | 91-53212 | Stop - Seat Engaging Rod | 2 | 19 | AN3-6A | Bolt | 4 |
| 10 | 91-53206 | Fitting - Seat Side Belt Attaching | 2 | 20 | AN4-10A | Bolt | 4 |
| 11 | 91-53217 | Bracket - Seat Shock Chord Attaching L.H. | 1 | 21 | AC365-1032 | Nut | 16 |
| | | | | 22 | AN365-428 | Nut | 4 |
| | | | | 23 | AN960-10 | Washer | 30 |
| | | | | 24 | AN380-3-3 | Pin - Cotter | 1 |
| | | | | 25 | AN960-416 | Washer | 8 |
| | | | | 26 | AN380-3-2 | Pin - Cotter | 6 |

HEATING AND VENTILATING SYSTEM AND WINDSHIELD DEFROSTER

FIGURE No. 17

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|---------------|---|----------|---------|---------------|---|----------|
| 1 | 73329 | Fitting - Ventilating System Cockpit Inlet | 1 | 18 | 99-53360 | Nozzle - Windshield Defroster L.H. | 1 |
| 2 | B1287-4-7 | Screw | 2 | 19 | 99-53360-1 | Nozzle - Windshield Defroster R.H. | 1 |
| 3 | B1251-1032-52 | Screw | 1 | 20 | 99-53366-4 | Hose - Windshield Defroster R.H. | 1 |
| 4 | AC365-440 | Nut | 1 | 21 | 99-53366-2 | Hose - Windshield Defroster Center | 1 |
| 5 | 73-53330 | Clip - Ventilating System Cockpit Inlet | 2 | 22 | 99-53366-3 | Hose - Windshield Defroster L.H. | 1 |
| 6 | 55-53337-3 | Valve - Ventilating System Cockpit Inlet | 1 | 23 | 99-53312 | Valve - Heat System Cockpit Air Control | 1 |
| 7 | AC365-1032 | Nut | 1 | 24 | B1286-8-8 | Screw | 2 |
| 8 | 73-53331 | Fitting Assem. - Ventilating System Cockpit Inlet | 1 | 25 | 99-53315 | Gate - Heat System Cockpit Air Control | 1 |
| 9 | 99-46025 | Radiator - Oil And Prestone | 1 | 26 | 99-53314 | Shaft - Heat System Cockpit Air Control | 1 |
| 10 | 73-53334 | Scoop - Ventilating System Air Intake | 1 | 27 | AC365-832 | Nut | 2 |
| 11 | 91-53335 | Tube - Cold Air Intake To Cockpit | 1 | 28 | 73-53317 | Spring - Hot Air Control Valve | 1 |
| 12 | 99-53339 | Scoop - Heat And Vent System Radiator Air Scoop To Pilot's Compartment Duct | 1 | 29 | 73-53316 | Handle - Ventilating System Cockpit Air Control Valve | 1 |
| 13 | 99-53310 | Tube - Hot Air Intake To Cockpit | 1 | 30 | AC365-832 | Nut | 1 |
| 14 | 99-53363 | Tube - Hot Air Intake To Cockpit | 1 | 31 | B1286-8-18 | Screw | 1 |
| 15 | 99-53313 | Valve - Cockpit Air Control | 1 | 32 | 73-53330 | Clip - Ventilating System Cockpit Air Control Valve | 1 |
| 16 | 99-53362 | Tube - Cockpit Defroster | 1 | 33 | B1287-4-7 | Screw | 2 |
| 17 | 99-53361 | Nozzle - Windshield Defroster | 1 | 34 | AC365-440 | Nut | 2 |
| | | | | 35 | 55-53337-2 | Valve - Ventilating System Cockpit Air Control Valve | 1 |
| | | | | 36 | B1251-1032-52 | Screw | 1 |
| | | | | 37 | AC365-1032 | Nut | 1 |



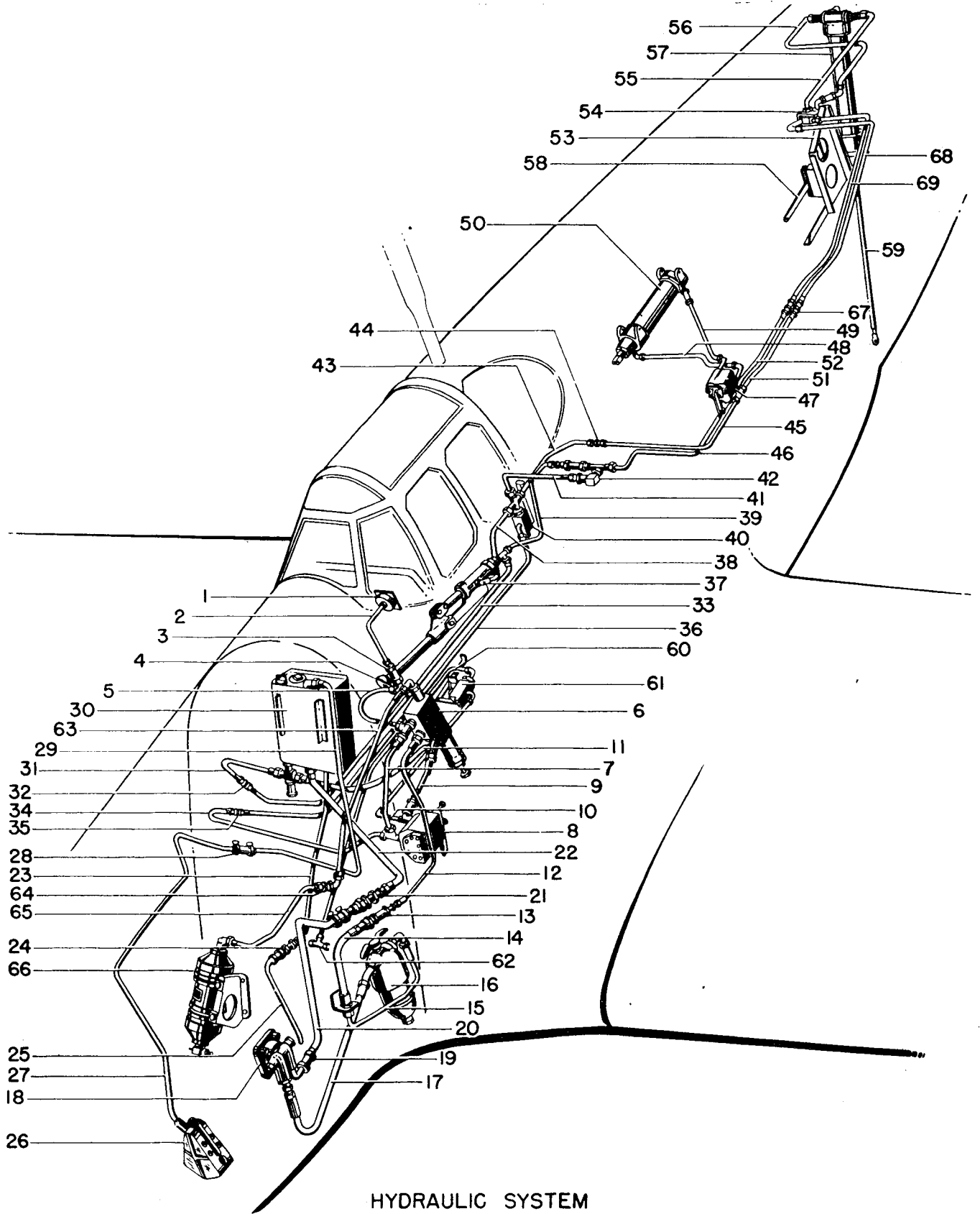
HEATING AND VENTILATING SYSTEM & WINDSHIELD DEFROSTER

FIGURE No. 17
RESTRICTED

HYDRAULIC SYSTEM

FIGURE No. 18

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------------|--|----------|---------|-------------|--|----------|
| 1 | | Gage - Pressure Type E-4 (See Fig. No. 42) | | 37 | 99-580240 | Valve Hand Pump Pressure | 1 |
| 2 | 99-58811 | Line - Pressure Gage To Pressure Snubber | 1 | 38 | 97-58882 | Pump - Hydraulic Hand (See Fig. No. 23) Line - Hand Pump To Control Check Valve Pressure | 1 |
| 3 | 15-SD | Snubber (Ray Pressure Snubber Co., Charlotte, N.C.) | 1 | 39 | 99-58879 | Line - Hand Pump To Check Valve Wing Flap And Air Scoop Return | 1 |
| 4 | AC811CT-5 | Elbow | 1 | 40 | 99-580650 | Valve - Controllable Check (See Fig. No. 29) | 1 |
| 5 | 99-58820 | Line - Pressure Gage Snubber Elbow To Unloading Valve | 1 | 41 | 99-58812 | Line - Control Check Valve To Thermal Relief Valve Pressure | 1 |
| 6 | 99-58073 | Valve - Engine Pump Unloading (See Fig. No. 22) | | 42 | 99-580720 | Valve - Thermal Relief (See Fig. No. 27) | 1 |
| 7 | 97-58810 | Line - Unloading Valve To Landing Gear Selector Valve Pressure | 1 | 43 | 99-58869 | Line - Control Check Valve To Union Wing Flap And Air Scoop Pressure | 1 |
| 8 | 99-580112 | Valve - Landing Gear Selector (See Fig. No. 35) | | 44 | 6-5HT | Union | 1 |
| 9 | 99-58818 | Line - Unloading Valve To Landing Gear Selector Valve Return | 1 | 45 | 99-58870 | Line - Union To Selector Valve Wing Flap And Air Scoop Pressure | 1 |
| 10 | 99-58858 | Line - Emergency Release Valve To Landing Gear Selector Valve | 1 | 46 | 99-58878 | Line - Relief Valve To Selector Valve Wing Flap And Air Scoop Return | 1 |
| 11 | 99-58817 | Line - Unloading Valve To Reservoir Return | 1 | 47 | 99-580132 | Valve - Wing Flap Control (See Fig. No. 24) | 1 |
| 12 | 97-58807 | Line - Unloading Valve To Union Engine Pump Pressure | 1 | 48 | 97-58874 | Line - Flap Valve To Flap Strut Wing Flap Up | 1 |
| 13 | 97-58603 | Union - Filter Firewall Bulkhead | 1 | 49 | 97-58875 | Line - Flap Valve To Flap Strut Wing Flap Down | 1 |
| 14 | AC39G1030-6-14 | Line - Filter Flexible | 1 | 50 | 99-580322 | Strut - Wing Flap Operating (See Fig. No. 25) | 1 |
| 15 | 97-58806 | Line - Flexible Line To Filter Engine Pump Pressure | 1 | 51 | 99-58872 | Line - Flap Valve To Union Air Scoop Pressure | 1 |
| 16 | 27932 | Purolator - Model G-159J-21 Filter (See Fig. No. 26) | 1 | 52 | 99-58877 | Line - Flap Valve To Union Air Scoop Return | 1 |
| 17 | AC41D1217-6-24 | Line - Engine Pump Flexible | 1 | 53 | 99-58052 | Panel - Pre-Selective Scoop Control | 1 |
| 18 | 1P-349-N | Pump - Pesco | 1 | 54 | 99-580133 | Valve - Pre-Selective Scoop Control (See Fig. No. 24) | 1 |
| 19 | AN884-10-15 FBB | Hose Clamp (Wittek Mfg. Company Chicago, Ill.) | 2 4 | 55 | 99-58881 | Line - Scoop Valve To Scoop Strut Open | 1 |
| 20 | 99-58801 | Line - Engine Pump To Firewall Union Suction | 1 | 56 | 99-58829 | Line - Scoop Valve To Scoop Strut Closed | 1 |
| 21 | 97-58604 | Union - Bulkhead Engine Pump | 1 | 57 | 99-58040 | Strut - Radiator Air Scoop Operating (See Fig. No. 28) | 1 |
| 22 | 97-58803 | Line - Reservoir To Engine Pump Union Suction | 1 | 58 | 99-58760 | Rod - Air Scoop Control Valve | 1 |
| 23 | 83-58823 | Line - Reservoir To Firewall Union Drain | 1 | 59 | 99-58487 | Rod - Air Scoop Strut | 1 |
| 24 | 73-58307 | Hose - Bulkhead Union Reservoir Drain | 1 | 60 | 99-58864 | Line - Emergency Pressure Release To Tee Fairing Doors Open | 1 |
| | 73-58308 | Spacer - Bulkhead Union Reservoir Drain Hose | 2 | 61 | 99-580651 | Valve - Emergency Pressure Release (See Fig. No. 29) | 1 |
| 25 | 83-58824 | Line - Union To Drain Reservoir | 1 | 62 | AC811-RT6 | Tee - Fairing Door Control Valve (See Fig. No. 32) | 1 |
| 26 | 73-42039 | Box - Engine Drain | 1 | 63 | 97-58808 | Line - Unloading Valve To Elbow Accumulator Pressure | 1 |
| 27 | 83-58822 | Line - Drain Box To Firewall Union Reservoir Vent | 1 | 64 | 3115-1ET-6 | Elbow - Bulkhead | 1 |
| 28 | 3117-4T-4 | Hose - Bulkhead Union (Parker Appliance Co., 17325 Euclid Ave., Cleveland, Ohio.) | 1 | 65 | 97-58809 | Line - Elbow To Accumulator Pressure | 1 |
| 29 | 83-58821 | Line - Firewall Union To Reservoir Vent | 1 | 66 | 97-580540 | Accumulator - Hydraulic (See Fig. No. 21) | 1 |
| 30 | 99-580510 | Reservoir - Hydraulic (See Fig. No. 19) | | 67 | 3115-1HT-5 | Union - Bulkhead | 2 |
| 31 | 97-58805 | Line - Reservoir To Union Hand Pump Suction | 1 | 68 | 99-58873 | Line - Union To Air Scoop Valve Pressure | 1 |
| 32 | AC811HT-8 | Union | 1 | 69 | 99-58876 | Line - Union To Air Scoop Valve Return | 1 |
| 33 | 97-58804 | Line - Union To Hand Pump Suction | 1 | | | | |
| 34 | 97-58814 | Line - Selector Valve To Union Hand Pump Pressure | 1 | | | | |
| 35 | AC811HT-6 | Union | 1 | | | | |
| 36 | 97-58813 | Line - Union To Control Check | | | | | |

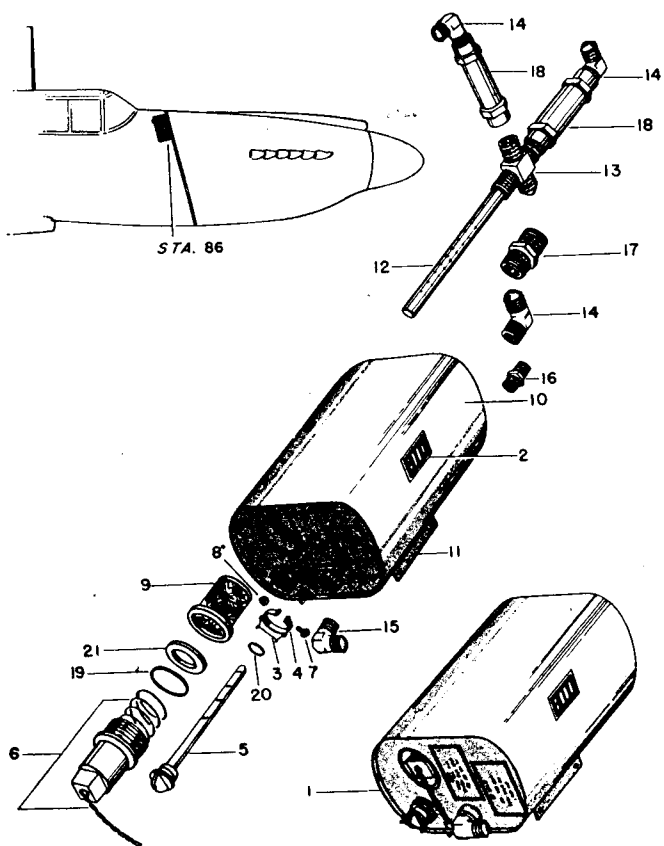


HYDRAULIC SYSTEM

FIGURE No. 18
RESTRICTED

Section II
Illustrated Parts List

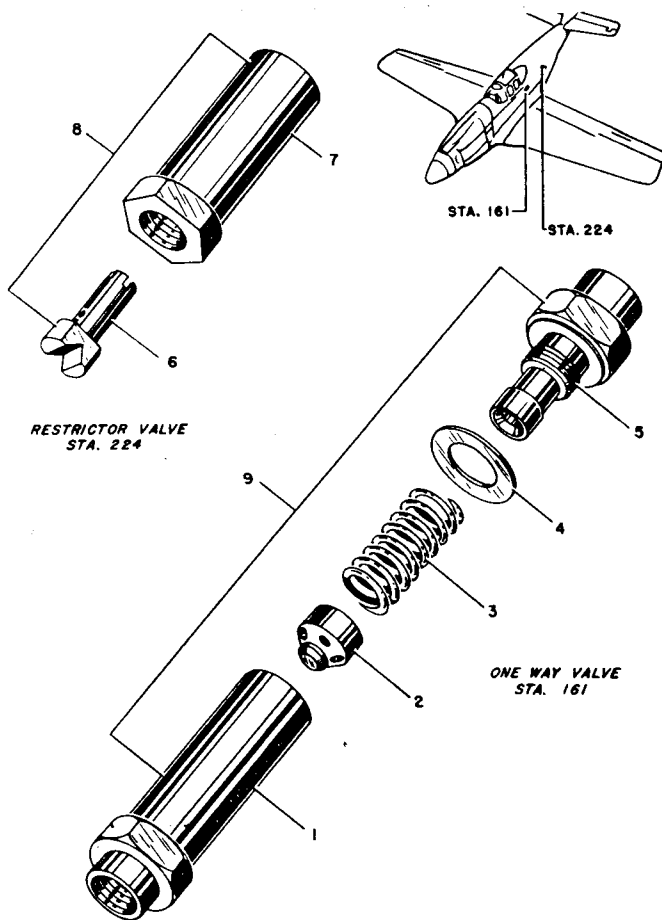
RESTRICTED
T. O. No. 01-60JC-4



HYDRAULIC FLUID TANK

FIGURE No. 19

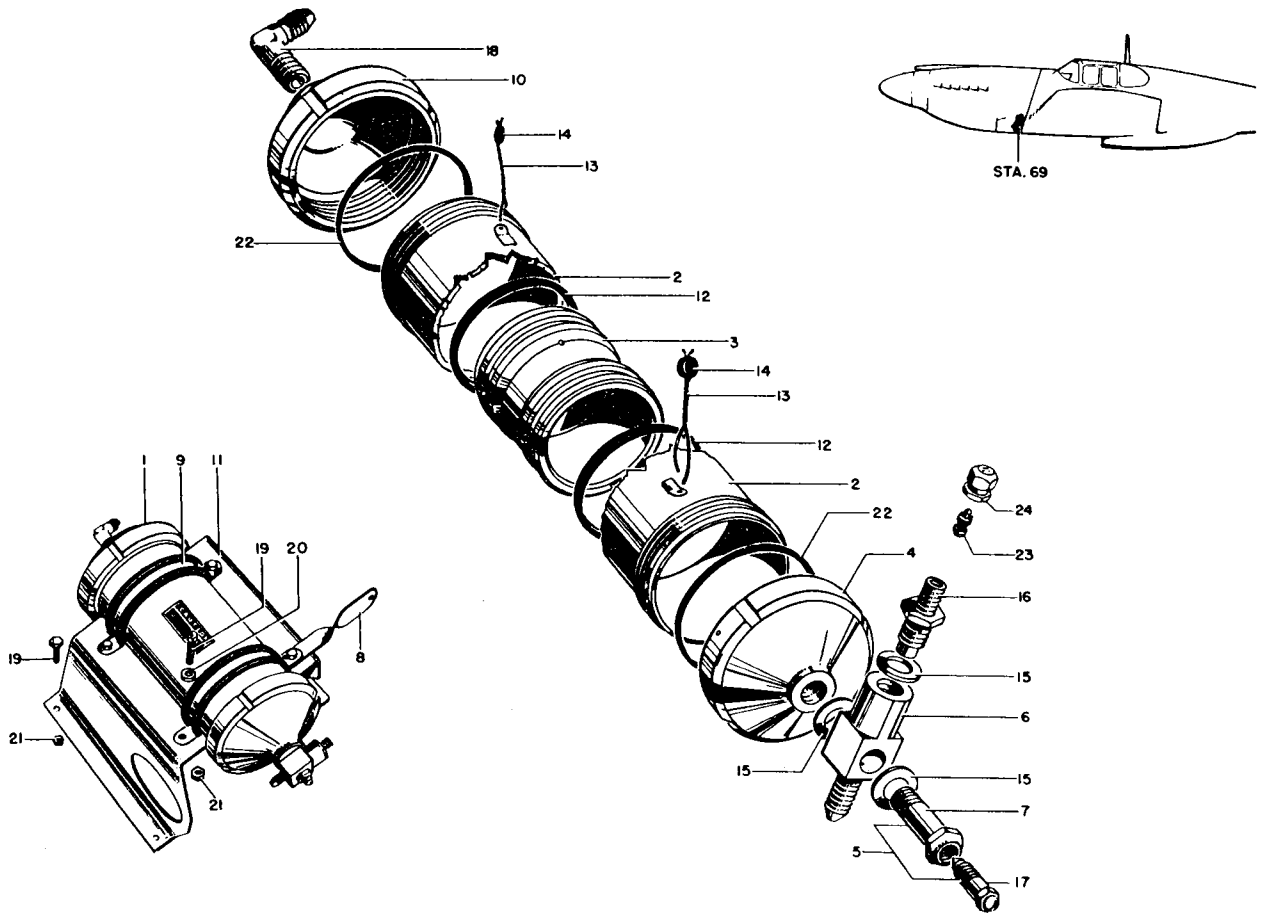
| REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-----------------|--|----------|
| 1 | 99-580510 | Reservoir - Hydraulic Fluid Complete (With Fittings) | 1 |
| | 99-58051 | Reservoir - Hydraulic Fluid (Less Fittings) | 1 |
| 2 | B1221D | Plate | 1 |
| 3 | 97-58646 | Bail - Hydraulic Fluid Reservoir Dip Stick Spring | 1 |
| 4 | 97-58717 | Clamp - Hydraulic Fluid Reservoir Dip Stick Hold Down Spring | 1 |
| 5 | 97-58632 | Stick - Hydraulic Fluid Indicator Dip | 1 |
| 6 | 83-58427 | Plug - Hydraulic Fluid Reservoir Filler Complete | 1 |
| 7 | B1287-8-6 | Screw | 1 |
| 8 | AC365-832 | Nut | 1 |
| 9 | 26-58080 | Strainer - Hydraulic Fluid Reservoir Complete | 1 |
| 10 | 83-58232-2 | Shell - Hydraulic Fluid Reservoir | 1 |
| 11 | 83-58233 | Bracket - Hydraulic Fluid Reservoir L.H. | 1 |
| | 83-58250 | Bracket - Hydraulic Fluid Reservoir R.H. | 1 |
| 12 | 97-58418-3 | Tubing - Hydraulic Reservoir Return | 1 |
| 13 | 97-58418-2 | Fitting - Hydraulic Reservoir Return | 1 |
| 14 | AC811CT-6 | Elbow | 3 |
| 15 | AC811CT-4 | Elbow | 1 |
| 16 | AC811FT-5 | Nipple | 1 |
| 17 | AC811FT-10D | Nipple | 1 |
| 18 | 2-2140-24 | Valve | 2 |
| 19 | AN900-20 | Gasket | 1 |
| 20 | AN6227-7 | Ring | 1 |
| 21 | AN960-6 | Washer | 1 |
| | B985AL-48-36-64 | Washer | 1 |



HYDRAULIC RESTRICTOR AND ONE WAY VALVES

FIGURE No. 20

| REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-----------------|--|----------|
| 1 | 62-00585 | Body - Hydraulic One Way Valve | 1 |
| 2 | 62-00583 | Valve - Hydraulic One Way | 1 |
| 3 | 62-00581 | Spring - Hydraulic One Way Valve | 1 |
| 4 | B985AL-40-26-15 | Washer | 1 |
| 5 | 62-00584 | Retainer - Hydraulic One Way Valve | 1 |
| 6 | 62-58450-6 | Pin - Hydraulic Restrictor Valve | 1 |
| 7 | 36-58016 | Body - Hydraulic Restrictor Valve | 1 |
| 8 | 62-58084-6 | Valve - Hydraulic Restrictor Complete | 1 |
| 9 | 62-00582 | Valve - Hydraulic One Way Complete Or 475-GG-1/4D (Parker) | 1 |



HYDRAULIC SYSTEM ACCUMULATOR

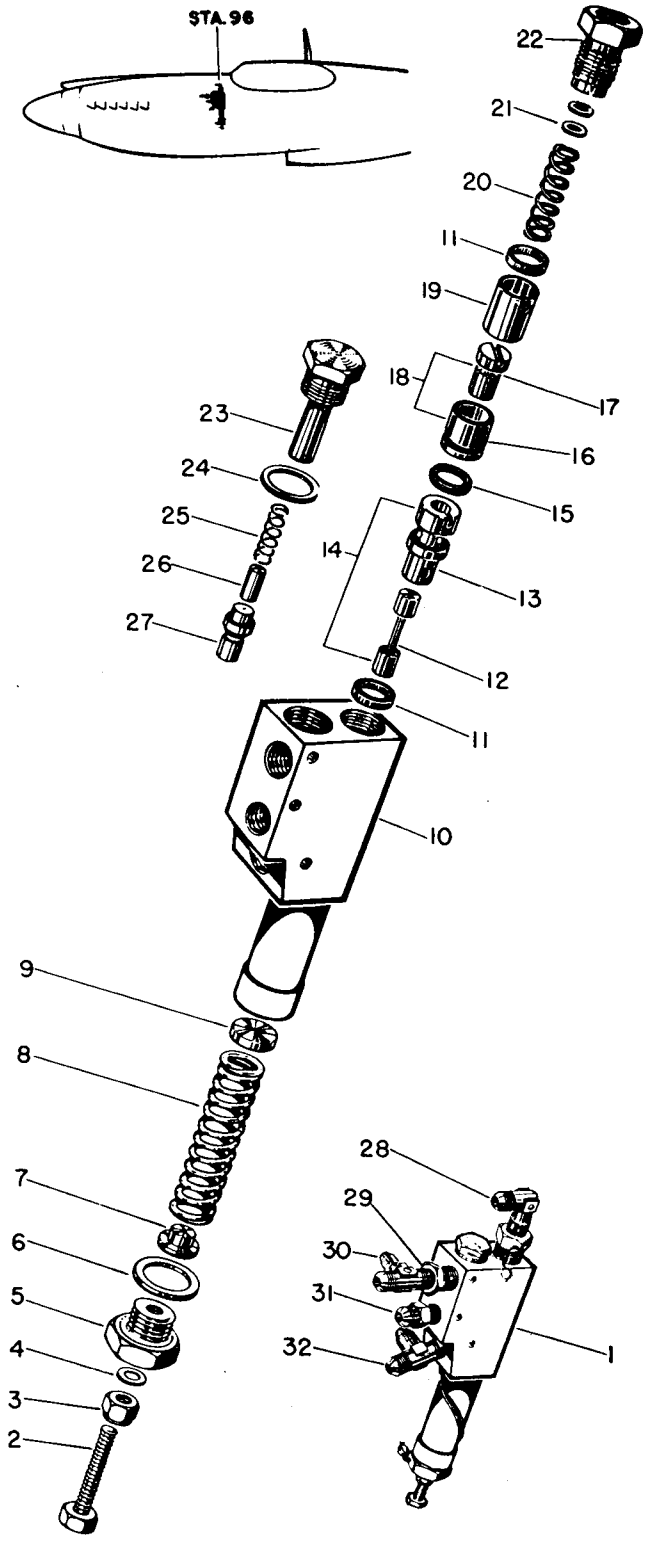
FIGURE No. 21

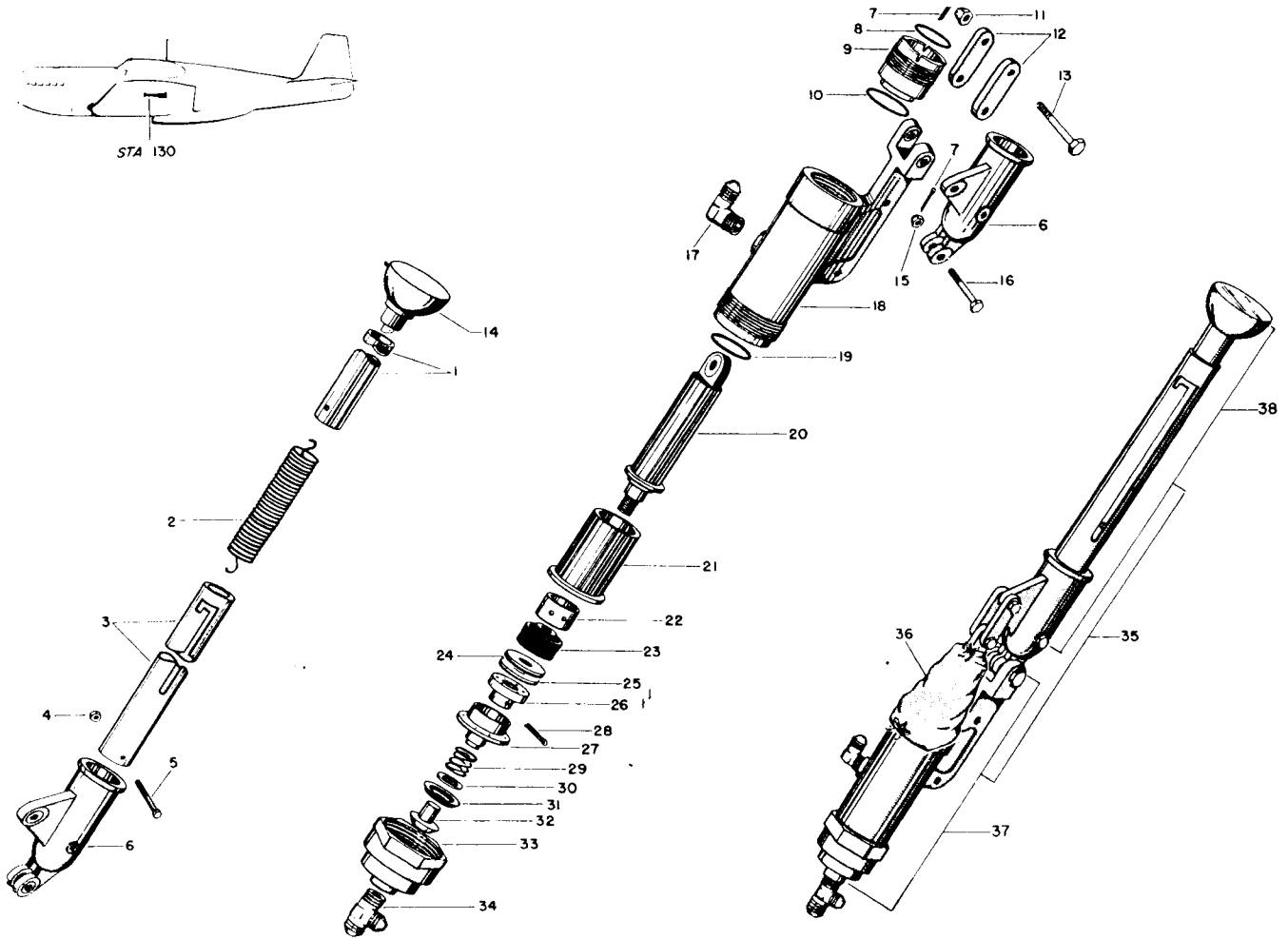
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|-------------|--|----------|
| 1 | 37-580540 | Accumulator Assem. - Hydraulic (Complete With Fittings) | 1 | 10 | 83-58457 | End - Hydraulic Accumulator Fluid | 1 |
| | 83-58054 | Accumulator Assem. - Hydraulic (Less Fittings) | 1 | 11 | 83-58460 | Bracket - Hydraulic Accumulator Supporting | 1 |
| 2 | 83-58456 | Cylinder - Hydraulic Accumulator | 1 | 12 | AN6227-40 | Ring | 2 |
| 3 | 83-58458 | Piston - Hydraulic Accumulator | 1 | 13 | AC995-C40-2 | Lockwire | 2 |
| 4 | 83-58459 | End - Hydraulic Accumulator Air Swivel Assem. - Hydraulic | 1 | 14 | | Lead Seal | 2 |
| 5 | 33-58466 | Accumulator Air Swivel Fitting | 1 | 15 | AN901-5C | Gasket | 3 |
| 6 | 83-58432 | Body - Hydraulic Accumulator Air Swivel Fitting | 1 | 16 | AN812 | Stem | 1 |
| 7 | 83-58466-2 | Bar - Hydraulic Accumulator Air Swivel | 1 | 17 | #50151 | Bleeder (Bendix) | 1 |
| 8 | 83-58467 | Strap - Hydraulic Accumulator Bracket Tie | 1 | 18 | AC811-CT-6 | Elbow | 1 |
| 9 | 83-58462 | Strap - Hydraulic Accumulator Supporting | 2 | 19 | AN3-4A | Bolt | 8 |
| | | | | 20 | AN960-10 | Washer | 4 |
| | | | | 21 | AC365-1032 | Nut | 8 |
| | | | | 22 | AN6230-16 | Ring | 2 |
| | | | | 23 | AN809 | Core | 1 |
| | | | | 24 | AN813 | Cap | 1 |

HYDRAULIC ENGINE PUMP UNLOADING VALVE

FIGURE No. 22

| REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|----------------|---|----------|
| 1 | 99-58073 | Valve Assem. - Hydraulic Engine Pump Unloading (Complete With Fittings) | 1 |
| 2 | B1174-13 | Bolt | 1 |
| 3 | AC365-428 | Nut | 1 |
| 4 | B985K-17-16- | | 1 |
| 5 | 32 | Washer | 1 |
| 6 | 83-58414 | Plug - Hydraulic Unloading Valve | 1 |
| 7 | B985K-61-36-64 | Gasket | 1 |
| 8 | 83-58425 | Washer - Hydraulic Unloading Valve | 1 |
| 9 | 97-58415 | Spring - Hydraulic Unloading Valve | 1 |
| 10 | 91-58413 | Guide - Hydraulic Unloading Valve | 1 |
| 11 | 97-58401 | Body - Hydraulic Unloading Valve | 1 |
| 12 | 51-58101-14 | Gasket - Hydraulic Seal | 1 |
| 13 | 97-58407 | Valve - Hydraulic Unloading Relief Chamber | 1 |
| 14 | 97-58408 | Valve Assem. - Hydraulic Unloading Relief Valve | 1 |
| 15 | 97-58409 | Valve Assem. - Hydraulic Unloading Relief Valve | 1 |
| 16 | AN6227-10 | Ring | 1 |
| 17 | 99-58404 | Chamber - Hydraulic Unloading Valve | 1 |
| 18 | 99-58405 | Valve - Hydraulic Unloading | 1 |
| 19 | 99-58500 | Valve Assem. - Hydraulic System Unloading | 1 |
| 20 | 83-58410 | Retainer - Hydraulic Unloading Valve | 1 |
| 21 | 97-58439 | Spring - Hydraulic Unloading Valve | 1 |
| 22 | B985G-16-13-63 | Washer | 2 |
| 23 | 83-58411 | Retainer - Hydraulic Unloading Valve | 1 |
| 24 | 83-58412 | Retainer - Hydraulic Unloading Valve | 1 |
| 25 | B985K-41-26-64 | Gasket | 1 |
| 26 | 88-58312 | Spring - Hydraulic Unloading Valve | 1 |
| 27 | 83-58438 | Guide - Hydraulic Unloading Valve | 1 |
| 28 | 97-58660 | Valve - Hydraulic Unloading Valve | 1 |
| 29 | AC811CT-6 | Elbow | 1 |
| 30 | 97-58630 | Bushing - Hydraulic Unloading Valve | 1 |
| 31 | 6-4-5RT | Tee - (Parker Appliance Co., 17325 Euclid Ave., Cleveland, Ohio.) | 1 |
| 32 | AC811FT-6 | Nipple | 1 |
| | AC811RT-6 | Tee | 1 |

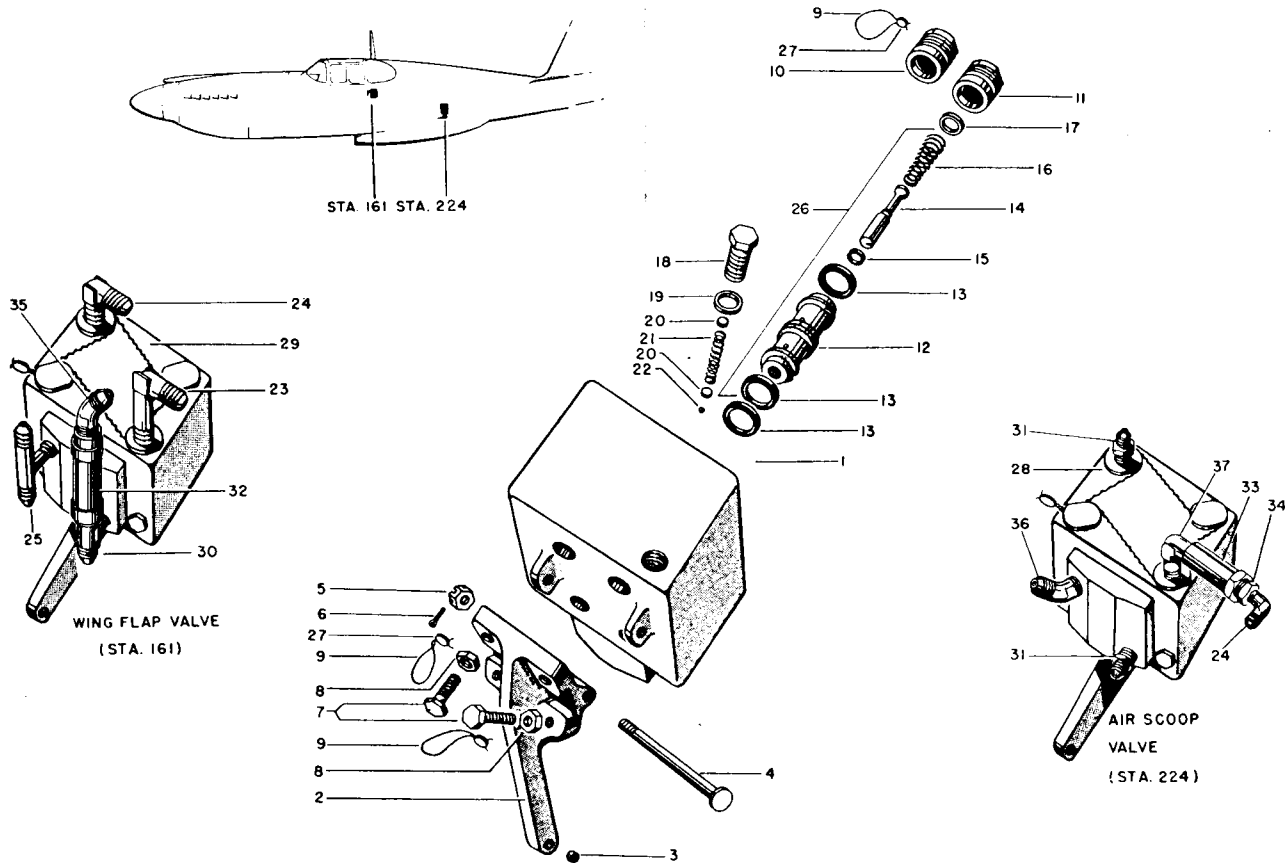




HYDRAULIC HAND PUMP

FIGURE No. 23

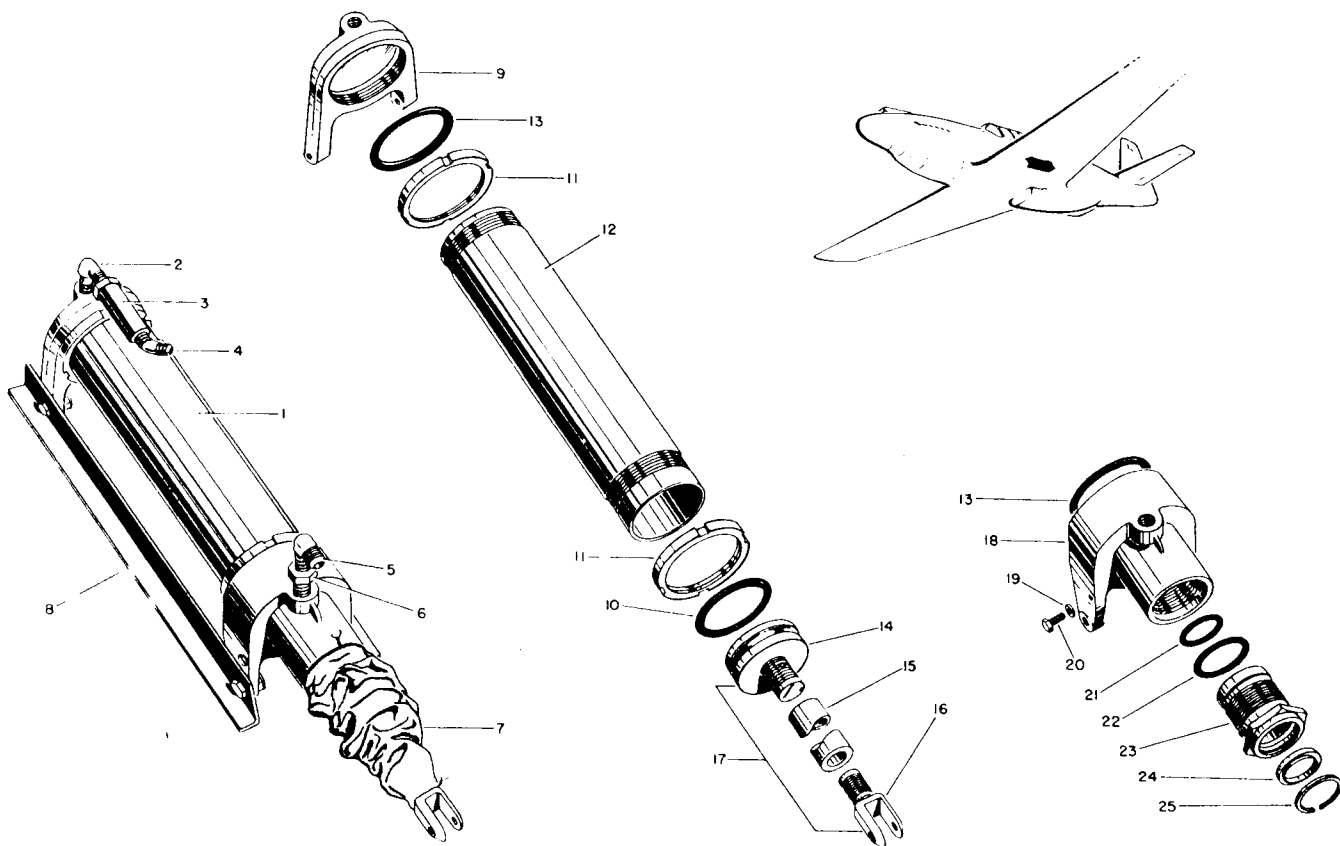
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|--------------|--|----------|
| 1 | 97-58610-2 | Tube - Hydraulic Hand Pump Handle | 1 | 23 | B1116N | Cup - Hydraulic Hand Pump | 1 |
| 2 | 25-58057 | Spring - Hydraulic Hand Pump Handle | 1 | 24 | B935-21-34- | | |
| 3 | 25-58066 | Tube - Hydraulic Hand Pump Handle | 1 | | 31 | Washer | 1 |
| 4 | AC365-1052 | Nut | 1 | 25 | B985-21-34- | | |
| 5 | AN3-15A | Bolt | 1 | | 50 | Washer | 1 |
| 6 | 97-58611 | Socket - Hydraulic Hand Pump Handle | 1 | 26 | 25-58018 | Head - Hydraulic Hand Pump | 1 |
| 7 | AN380-2-2 | Cotter Pin | 1 | 27 | 55-58139 | Retainer - Hydraulic Hand Pump | 1 |
| 8 | AN6227-14 | Ring | 3 | 28 | AN330-2-2 | Cotter Pin | 1 |
| 9 | 97-58140 | Bearing - Hydraulic Hand Pump | 1 | 29 | 55-58137 | Spring - Hydraulic Hand Pump Valve | 1 |
| 10 | AN6227-19 | Packing | 1 | 30 | 62-58259 | Washer | 1 |
| 11 | AN310-4 | Nut | 2 | 31 | B985NB70-15- | | |
| 12 | 97-58700 | Link - Hydraulic Hand Pump Piston | 2 | | 38-62 | Washer | 1 |
| 13 | AN4-10 | Bolt | 2 | 32 | 62-58258 | Valve - Hydraulic Hand Pump | 1 |
| 14 | 23-58065 | Knob - Hydraulic Hand Pump Handle | 1 | 33 | 62-58250 | Head - Hydraulic Hand Pump | 1 |
| 15 | AN310-4 | Nut | 1 | 34 | 6-6-3RT | Tee (Parker) | 1 |
| 16 | AN4-21 | Bolt | 1 | 35 | 99-580240 | Pump Assem. - Hydraulic Hand | |
| 17 | 6-2-CT | Elbow (Parker Appliance Co 17325 Euclid Ave. Cleveland, Ohio | 1 | | 97-58024 | Pump Assem. - Hydraulic Hand Complete | 1 |
| 18 | 62-58185 | Body - Hydraulic Hand Pump | 1 | 36 | 99-58497 | Boot - Hydraulic Piston Rod Dust Excluder | 1 |
| 19 | AN6227-23 | Ring | 1 | 37 | 97-58024-2 | Body - Hydraulic Hand Pump Body Complete | 1 |
| 20 | 25-58016 | Piston - Hydraulic Hand Pump | 1 | 38 | 97-58610 | Handle - Hydraulic Hand Pump Control Complete | 1 |
| 21 | 25-58014 | Liner - Hydraulic Hand Pump | 1 | | | | |
| 22 | 25-58022 | Retainer - Hydraulic Hand Pump | 1 | | | | |



AIR SCOOP AND WING FLAP CONTROL VALVES

FIGURE No. 24

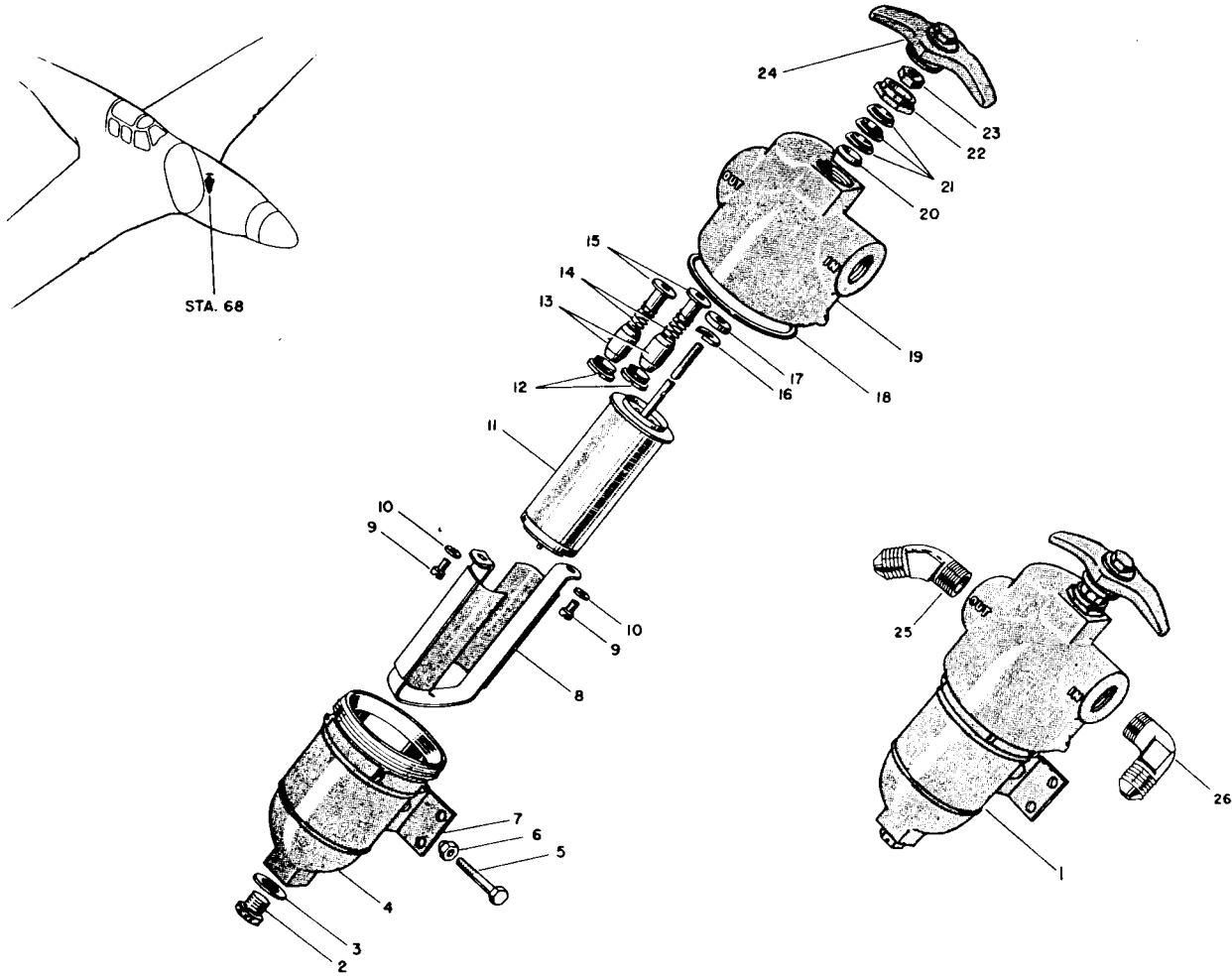
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|----------------|--|----------|---------|--------------|--|----------|
| 1 | 99-58656 | Body - Hydraulic Wing Flap And Air Scoop Control Valve | 2 | 20 | B985C-0-8-31 | Washer | 6 |
| 2 | 97-58657 | Lever - Hydraulic Wing Flap And Air Scoop Control Valve | 2 | 21 | 73-58225 | Spring - Lowering Valve | 2 |
| 3 | A-309 | Bearing (Chrysler Corp., Amplex Div. Detroit, Michigan) | 2 | 22 | | 5/8 Diameter Steel Ball | 2 |
| 4 | AN23-44 | Bolt | 2 | 23 | CCCT-5 | Elbow (Parker Appliance Co., Cleveland, Ohio.) | 1 |
| 5 | AN320-3 | Nut - Shear | 2 | 24 | AC811CT-5 | Elbow | 2 |
| 6 | AN380-2-2 | Pin - Cotter | 2 | 25 | AC811ST-5 | Tee | 1 |
| 7 | B1174-6 D.H. | Bolt | 8 | 26 | 97-58654 | Cartridge - Hydraulic Wing Flap And Air Scoop Control Valve Complete | 3 |
| 8 | AN316-4R | Nut - Check | 8 | 27 | | Seal | 6 |
| 9 | AC995040-3 | Lockwire | 6 | 28 | 99-580133 | Valve Assem. - Hydraulic Scoop Control Complete | 1 |
| 10 | 97-58651 | Plug - Hydraulic Wing Flap And Air Scoop Control Valve Chamber End | 4 | 29 | 99-580132 | Valve Assem. - Hydraulic Scoop Control (Less Fittings) | 1 |
| 11 | 97-58650 | End - Hydraulic Wing Flap And Air Scoop Control Valve Chamber | 4 | 30 | 5-4-2 RST | Tee | 1 |
| 12 | 97-58653 | Cartridge - Hydraulic Wing Flap And Air Scoop Control Valve | 8 | 31 | AC811FT-5 | Nipple | 2 |
| 13 | AN6227-11 | Ring | 24 | 32 | 62-00582 | Valve - Hydraulic One Way (See Fig. No.20) | 1 |
| 14 | 97-58652 | Valve - Hydraulic Wing Flap And Air Scoop Control | 8 | 33 | 475-GG-1/4 | Valve - Hydraulic Restrictor (See Fig. No.20) | 1 |
| 15 | AN6227-1 | Ring | 8 | 34 | AN912-1 | Bushing | 1 |
| 16 | 97-58655 | Spring - Hydraulic Wing Flap And Air Scoop Control Valve | 8 | 35 | 5-4-CT-45° | Elbow | 1 |
| 17 | 97-58635 | Retainer - Hydraulic Selector Valve Spring | 8 | 36 | AC811CT45-5 | Elbow | 1 |
| 18 | AN5A-3 D.H. | Bolt | 2 | 37 | 4-2CR | Elbow | 1 |
| 19 | B985K-21-14-64 | Washer | 2 | | | | |



WING FLAP OPERATING STRUT

FIGURE No. 25

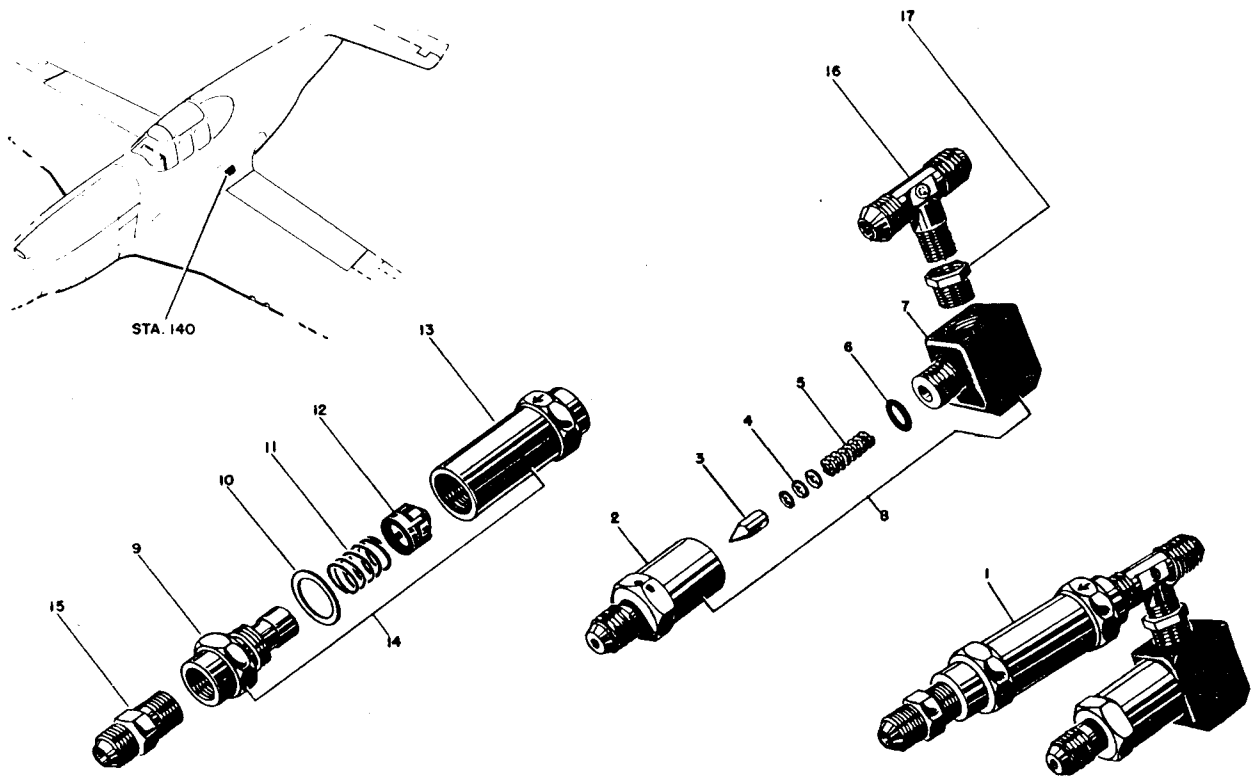
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|----------------|---|----------|
| 1 | 99-580322 | Strut Assem. - Wing Flap Operating (Complete With Fittings) | 1 | 11 | 97-58718 | Nut - Wing Flap Operating Strut | 2 |
| | 97-58032-2 | Strut Assem. - Wing Flap Operating (Less Fittings) | 1 | 12 | 97-58144 | Cylinder - Wing Flap Operating Strut | 1 |
| 2 | 4-CR | Elbow (Parker Appliance Company 17325 Euclid Avenue Cleveland, Ohio.) | 1 | 13 | AN6230-7 | Ring | 2 |
| | | | | 14 | 97-58164 | Piston - Wing Flap Operating Strut | 1 |
| | | | | 15 | 73-58163 | Rod - Wing Flap Operating Strut | 1 |
| 3 | 62-58084 | Valve - Hydraulic Restrictor (See Fig. No. 20) | 1 | 16 | 73-58167 | End - Wing Flap Operating Strut | 1 |
| | | | | 17 | 97-58169 | Piston - Wing Flap Operating Strut Complete | 1 |
| 4 | 5-4CT-45 | Elbow | 1 | 18 | 97-58162 | End - Wing Flap Operating Strut | 1 |
| 5 | AC811CT-5 | Elbow | 1 | 19 | B985K-12-10-64 | Washer | 1 |
| 6 | AN912-1 | Bushing | 1 | 20 | AN3-3A | Bolt - D.H. | 1 |
| 7 | 99-58499 | Boot - Wing Flap Strut Rod Dust Excluder | 1 | 21 | AN6227-19 | Ring | 1 |
| 8 | 99-58247 | Angle - Wing Flap Operating Strut Supporting | 2 | 22 | AN6227-25 | Ring | 1 |
| 9 | 97-58174-3 | End - Wing Flap Operating Strut | 1 | 23 | 97-58165 | Bearing - Wing Flap Operating Strut | 1 |
| 10 | AN6227-50 | Ring | 1 | 24 | AN6231-9 | Ring | 1 |
| | | | | 25 | B1136E-4-43 | Ring - Lock | 1 |



HYDRAULIC PUROLATOR

FIGURE No. 26

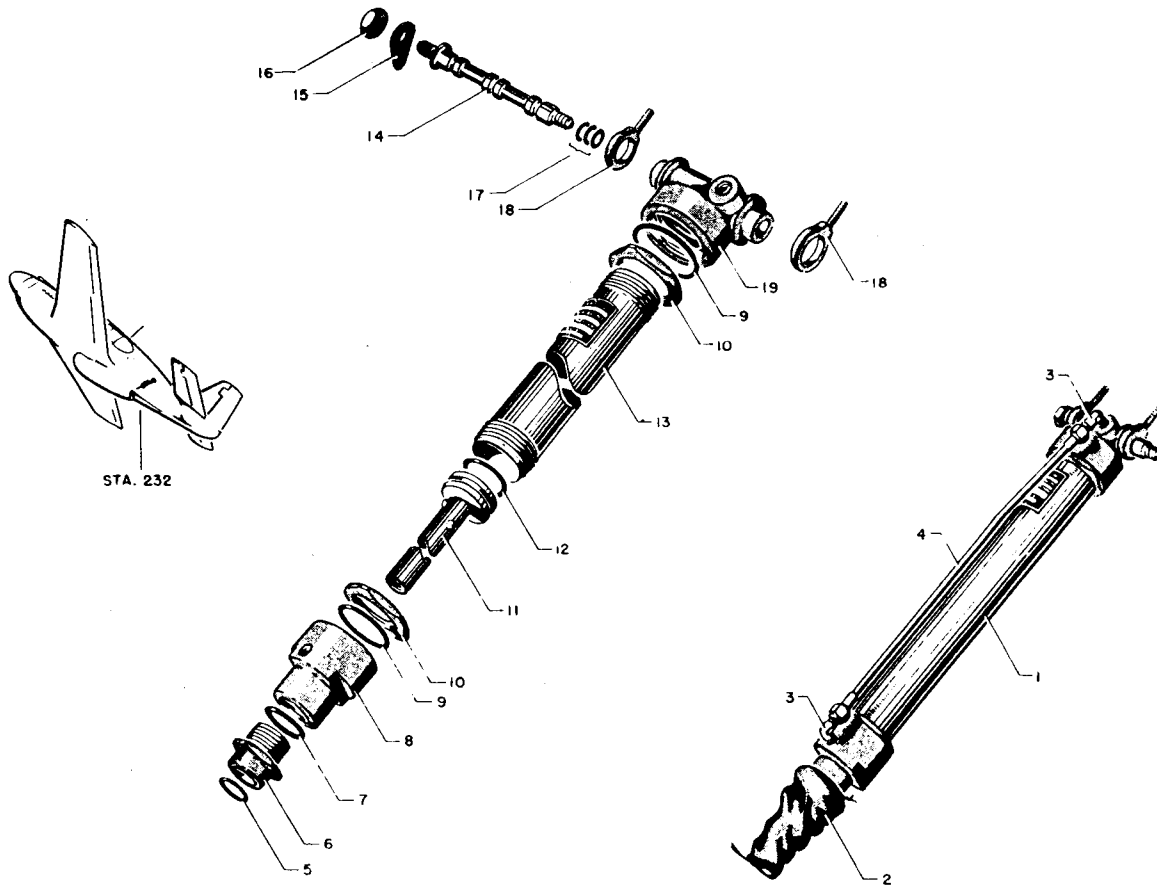
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---|--------------|--------------------------------|----------|---------|-------------|---------------------------|----------|
| Note: All Parts Listed With The Exception Of AN And "B" Standards are Purolator Products, Inc., Newark, New Jersey, Part Numbers. | | | | 12 | 25665 | Seat - Relief Valve | 2 |
| 1 | 27932 | Purolator - Type G159J-21 | 1 | 13 | 25664 | Piston - Relief Valve | 2 |
| 2 | 25668 | Plug - Drain | 1 | 14 | 25663 | Spring - Relief Valve | 2 |
| 3 | B985K-25-40- | Washer | 1 | 15 | 25660 | Guide - Spring | 2 |
| 4 | 25286 | Case - Lower | 1 | 16 | 25321 | Retainer - Drive Shaft | 1 |
| 5 | 25547 | Bolt | 1 | 17 | 25320 | Cap - Retainer | 1 |
| 6 | 25297 | Nut - Lock | 1 | 18 | AN6230-6 | Gasket | 1 |
| 7 | 25473 | Bracket - Purolator | 1 | 19 | 27384 | Head | 1 |
| 8 | 25449 | Knife And Frame | 1 | 20 | 25669 | Retainer - Packing | 1 |
| 9 | 25447 | Screw - Fillister Head Machine | 2 | 21 | 27048 | Packing | 3 |
| 10 | 24433 | Lockwasher - #10 | 2 | 22 | 25488 | Plug - Stuffing Box | 1 |
| 11 | 25444 | Element - Purolator | 1 | 23 | 24335 | Nut | 1 |
| | | | | 24 | 24412 | Handle - Ratchet Cleaning | 1 |
| | | | | 25 | AC811CT-45- | | |
| | | | | 6 | | Elbow | 1 |
| | | | | 26 | AC811CT-6 | Elbow | 1 |



HYDRAULIC THERMAL RELIEF VALVE

FIGURE No. 27

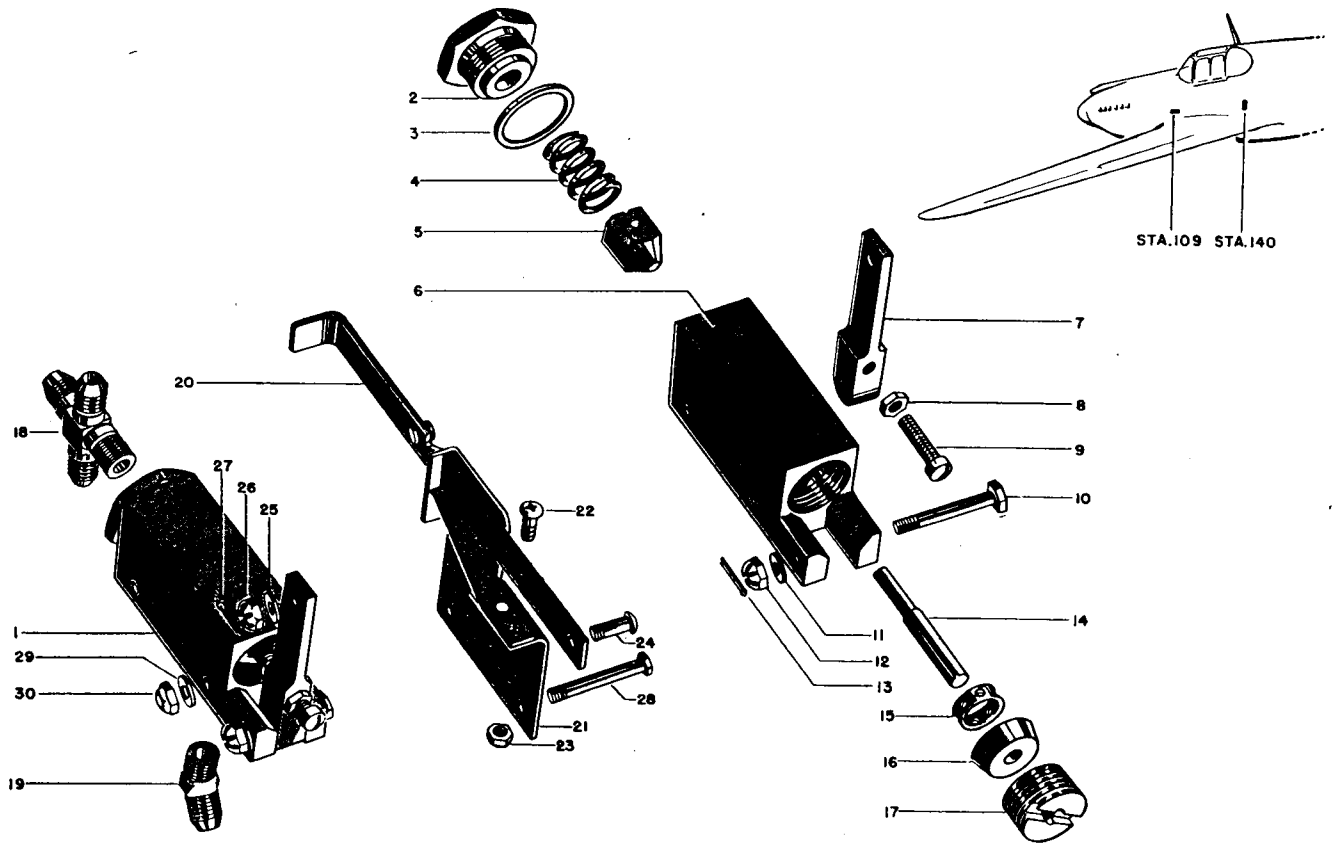
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|---------------|--|----------|---------|-----------------|--|----------|
| 1 | 99-580720 | Valve Assem. - Hydraulic Thermal Relief Complete | 1 | 10 | B985AL-40-26-15 | Washer | 1 |
| 2 | 99-58715 | Body - Thermal Relief Valve | 1 | 11 | 62-00581 | Spring - One Way Valve | 1 |
| 3 | 88-58311 | Valve - Wing Flap Ratchet Thermal Relief | 1 | 12 | 62-00583 | Valve - One Way Valve | 1 |
| 4 | B985AL-0-8-32 | Washer | 3 | 13 | 62-00585 | Body - One Way Valve | 1 |
| 5 | 73-58225 | Spring - Thermal Relief Valve | 1 | 14 | 62-00582 | Valve Assem. - One Way Or 475-GG-1/4D (Parker) | 1 |
| 6 | AN6227-7 | Seal | 1 | 15 | AC811FT-6 | Nipple | 1 |
| 7 | 97-58716 | End - Thermal Relief Valve | 1 | 16 | 5-4-2 RST | Tee (Parker Appliance Co., Cleveland, Ohio.) | 1 |
| 8 | 99-58072 | Valve Assem. - Thermal Relief | 1 | 17 | AN912-1 | Bushing | 1 |
| 9 | 62-00584 | Retainer - One Way Valve | 1 | | | | |



AIR SCOOP OPERATING STRUT

FIGURE No. 28

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|-------------|--|----------|
| 1 | 99-58040 | Strut Assem. - Hydraulic Air Scoop Operating Complete (Less Eye Bolts) | 1 | 10 | 99-58484 | Nut - Air Scoop Operating Strut Lock | 2 |
| 2 | 99-58499 | Boot - Air Scoop Operating Strut Dust Excluded | 1 | 11 | 99-58477 | Piston - Air Scoop Operating Strut | 1 |
| 3 | AC811CT-5 | Elbow | 2 | 12 | AN6227-23 | Ring | 1 |
| 4 | 99-58816 | Line - Air Scoop Operating Strut Attaching | 1 | 13 | 99-58476 | Cylinder - Air Scoop Operating Strut | 1 |
| 5 | AN6227-14 | Ring | 1 | 14 | 99-58480 | Pin - Air Scoop Operating Strut Swivel | 1 |
| 6 | 99-58479 | Bearing - Air Scoop Operating Strut End | 1 | 15 | 99-58490 | Link - Air Scoop Operating Strut Swivel Pin Lock | 1 |
| 7 | AN6227-21 | Ring | 1 | 16 | AN316-8R | Nut | 1 |
| 8 | 99-58483 | End - Air Scoop Operating Strut | 1 | 17 | AN6227-8 | Ring | 3 |
| 9 | AN6230-1 | Ring | 2 | 18 | 99-58488 | Bolt - Air Scoop Operating Strut Mounting | 2 |
| | | | | 19 | 99-58482 | Head - Air Scoop Operating Strut Swivel | 1 |



HYDRAULIC ABLE CHECK VALVE

FIGURE No. 29

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|----------------|--|----------|---------|--------------|--|----------|
| 1 | 62-58065 | Valve Assem. - Hydraulic Timing (Less Fittings) | 2 | 18 | 6-6-6-4KST | Cross (Used On Able Check Valve) (Parker Appliance Company Cleveland, Ohio.) | 1 |
| | 99-580650 | Valve Assem. - Control Able Check Complete | 1 | | AC811-CT-6 | Elbow (Used On Emergency Pressure Release Valve) | 1 |
| | 99-580651 | Valve Assem. - Emergency Pressure Release Complete | 1 | 19 | AC811CT6-45° | Elb - (Used On Able Check Valve) | 1 |
| 2 | 62-58940 | End- Timing Valve | 2 | | AC811CT-6 | Elbow (Used On Emergency Pressure Release Valve) | 1 |
| 3 | B985K-57-36-64 | Washer | 2 | 20 | 99-58723 | Handle - Controllable Check Valve | 2 |
| 4 | 62-58231 | Spring - Timing Valve | 2 | 21 | 99-58721 | Bracket - Controllable Check Valve Handle Supporting | 2 |
| 5 | 62-58943 | Valve - Timing | 2 | 22 | B1287-8-7 | Bolt | 2 |
| 6 | 62-58942 | Body - Timing Valve | 2 | 23 | AC365-832 | Nut | 2 |
| 7 | 62-58944 | Lever - Timing Valve | 2 | 24 | AN23-10 | Bolt - Clevis | 2 |
| 8 | AN315-3R | Nut | 2 | 25 | AN960-10L | Washer | 2 |
| 9 | 73-58213 | Screw - Timing Valve Lever | 2 | 26 | AN320-3 | Nut | 2 |
| 10 | AN3-14 | Bolt | 2 | 27 | AN380-2-2 | Pin - Cotter | 2 |
| 11 | AN960-D10 | Washer | 2 | 28 | AN3-16A | Bolt (Used On Able Check Valve) | 2 |
| 12 | AN310-3 | Nut | 2 | | AN3-14A | Bolt (Used On Emergency Release Valve) | 2 |
| 13 | AN380-2-2 | Cotter | 2 | | AN3-3A | Bolt (Used On Emergency Release Valve) | 2 |
| 14 | 62-58941 | Plunger - Timing Valve | 2 | 29 | AN960-10 | Washer | 1 |
| 15 | B1379-2 | Retainer - Timing Valve | 2 | 30 | AC365-1032 | Nut | 2 |
| 16 | B1113NB | Cup | 2 | | | | 2 |
| 17 | 62-58823 | Bearing - Timing Valve | 2 | | | | 2 |

LANDING GEAR HYDRAULIC SYSTEM

FIGURE No. 36

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|-------------|--|----------|
| 1 | 99-58845 | Line - Hydraulic Wing Sta. 40 To 58 Strut To Down Lock Right Landing Gear Up | 1 | 27 | 99-58856 | Line - Hydraulic Fuselage Strut To Strut Fairing Door Open | 1 |
| 2 | 83-58867 | Line - Hydraulic Wing Sta. 50 Strut Tee To Landing Gear Down Lock Strut Lock Right | 1 | 28 | 99-58832 | Line - Hydraulic Fuselage Fairing Door Timing Valve To Bulkhead Fitting Landing Gear | 2 |
| 3 | 99-58843 | Line - Hydraulic Wing Sta. 49 To 54 Union To Down Lock Tee Right Landing Gear Up | 1 | 29 | 99-58826 | Line - Hydraulic Fuselage Sta. 80 Landing Gear Selector To Fairing Door Timing Valve Landing Gear Down | 1 |
| 4 | 83-58848 | Line - Hydraulic Wing Down Lock Strut Tee To Nipple Open | 1 | 30 | 99-58838 | Line - Hydraulic Fuselage Sta. 80 Landing Gear Selector Valve To Fairing Door Timing Valve Landing Gear Up | 1 |
| 5 | 99-58831 | Line - Hydraulic Wing Sta. "0" To 49 Bulkhead Tee To Strut Right Landing Gear Down | 1 | 31 | 99-580112 | Valve - Hydraulic Landing Gear Selector Complete (See Fig. No. 35) | 1 |
| 6 | 99-58841 | Line - Hydraulic Wing Sta. "0" To 49 Bulkhead Tee To Union Right Landing Gear Up | 1 | 32 | 97-58825 | Line - Hydraulic Fuselage Reservoir Tee To Selector Valve Tee Emergency Landing Gear Down | 1 |
| 7 | 99-58830 | Line - Hydraulic Wing Sta. "0" To 49 Bulkhead Tee To Strut Left Landing Gear Down | 1 | 33 | 99-58818 | Line - Hydraulic Fuselage Press Unloader Valve Tee To Selector Valve Return | 1 |
| 8 | 99-58840 | Line - Hydraulic Wing Sta. 2 To 49 Tee To Union Left Landing Gear Up | 1 | 34 | 97-58810 | Line - Hydraulic Fuselage Selector Valve To Press Unloader Valve Pressure | 1 |
| 9 | 99-58842 | Line - Hydraulic Wing Sta. 49 To 54 Union To Down Lock Tee Left Landing Gear Up | 1 | 35 | 99-58073 | Valve - Hydraulic System Engine Pump Unloading Complete (See Fig. No. 22) | 1 |
| 10 | 83-58865 | Line - Hydraulic Wing Sta. 50 Strut Tee To Landing Gear Down Lock Strut Lock Left | 1 | 36 | 99-58817 | Line - Hydraulic Fuselage Unloader Valve To Reservoir Return | 1 |
| 11 | 83-58848 | Line - Hydraulic Wing Down Lock Strut Tee To Nipple Open | 1 | 37 | 99-580510 | Reservoir - Hydraulic Complete (See Fig. No. 19) | 2 |
| 12 | 99-58844 | Line - Hydraulic Wing Sta. 40 To 58 Strut To Down Lock Left Landing Gear Up | 1 | 38 | 99-58475 | Bulkhead - Fitting | 2 |
| 13 | 99-580283 | Strut - Hydraulic Landing Gear Down Lock Actuating Complete Right (See Fig. No. 36) | 1 | 39 | AC811HT-6 | Union | 2 |
| 14 | 99-580273 | Strut - Hydraulic Landing Gear Operating Complete Right (See Fig. No. 31) | 1 | 40 | 106-5 | Self Seal C'Plg. (Aeroquip) | 2 |
| 15 | 99-580282 | Strut - Hydraulic Landing Gear Down Lock Actuating Complete Left (See Fig. No. 36) | 1 | 41 | 3115-1HT-5 | Union | 2 |
| 16 | 99-580272 | Strut - Hydraulic Landing Gear Operating Complete Left (See Fig. No. 31) | 1 | 42 | 99-58827 | Line - Hydraulic Wing Sta. "0" To 6 Bulkhead Tee To Bulkhead Tee Left Landing Gear Up | 1 |
| 17 | 97-58849 | Line - Hydraulic Fuselage Sta. 248 Disc Coupling To Strut Tail Wheel Up | 1 | 43 | 99-58839 | Line - Hydraulic Wing Sta. "0" To 6 Bulkhead Tee To Bulkhead Tee Left Landing Gear Down | 1 |
| 18 | 97-58837 | Line - Hydraulic Fuselage Sta. 248 Disc Coupling To Strut Tail Wheel Down | 1 | 44 | AC811HT-5 | Union | 2 |
| 19 | 99-580300 | Strut - Hydraulic Tail Wheel Operating Complete (See Fig. No. 33) | 1 | 45 | 99-58836 | Line - Hydraulic Fuselage Sta. 196 Union To Fuselage Sta. 248 Disconnect Coupling Tail Wheel Down | 1 |
| 20 | 99-58861 | Line - Hydraulic Fuselage Right Fairing Door Strut To Bulkhead Fitting Door Close | 1 | 46 | 99-58850 | Line - Hydraulic Fuselage Sta. 196 Union To Fuselage Sta. 248 Disconnect Coupling Tail Wheel Up | 1 |
| 21 | 99-58863 | Line - Hydraulic Fuselage Fairing Door Timing Valve To Bulkhead Fitting Door Close | 1 | 47 | 99-58835 | Line - Hydraulic Fuselage Sta. 159 Union To Sta. 196 Tail Wheel Down | 1 |
| 22 | 99-580413 | Strut - Hydraulic Landing Gear Fairing Door Operating Complete Left (See Fig. No. 34) | 1 | 48 | 99-58847 | Line - Hydraulic Fuselage Sta. 159 Union To Sta. 196 Tail Wheel Up | 1 |
| 23 | 99-580412 | Strut - Hydraulic Landing Gear Fairing Door Operating Complete Right (See Fig. No. 34) | 1 | 49 | 99-58834 | Line - Hydraulic Fuselage Bulkhead Fitting To Sta. 150 Union Tail Wheel Down | 1 |
| 24 | 99-580190 | Valve - Hydraulic Landing Gear Fairing Door Control Complete (See Fig. No. 32) | 1 | 50 | 99-58846 | Line - Hydraulic Fuselage Bulkhead Fitting To Sta. 150 Union Tail Wheel Up | 1 |
| 25 | 99-58860 | Line - Hydraulic Fuselage Left Fairing Door Strut To Bulkhead Fitting Door Close | 1 | 51 | 99-58475 | Tee - Bulkhead | 2 |
| 26 | 99-58857 | Line - Hydraulic Fuselage Fairing Door Strut To Timing Valve | 1 | 52 | 83-58828 | Line - Hydraulic Wing Bulkhead Tee To Wing Sta. 3 Drain Tee Landing Gear Down Left | 1 |
| | | | | 53 | 3115-1JT-6 | Bulkhead - Fitting | 2 |
| | | | | 54 | AC811RT-5 | Tee | 1 |
| | | | | | AN912-1 | Bushing | 1 |
| | | | | 55 | AC811CT-5 | Elbow | 1 |
| | | | | 56 | AC811JT-6 | Tee | 1 |
| | | | | | 36-58052-6 | Cap | 1 |

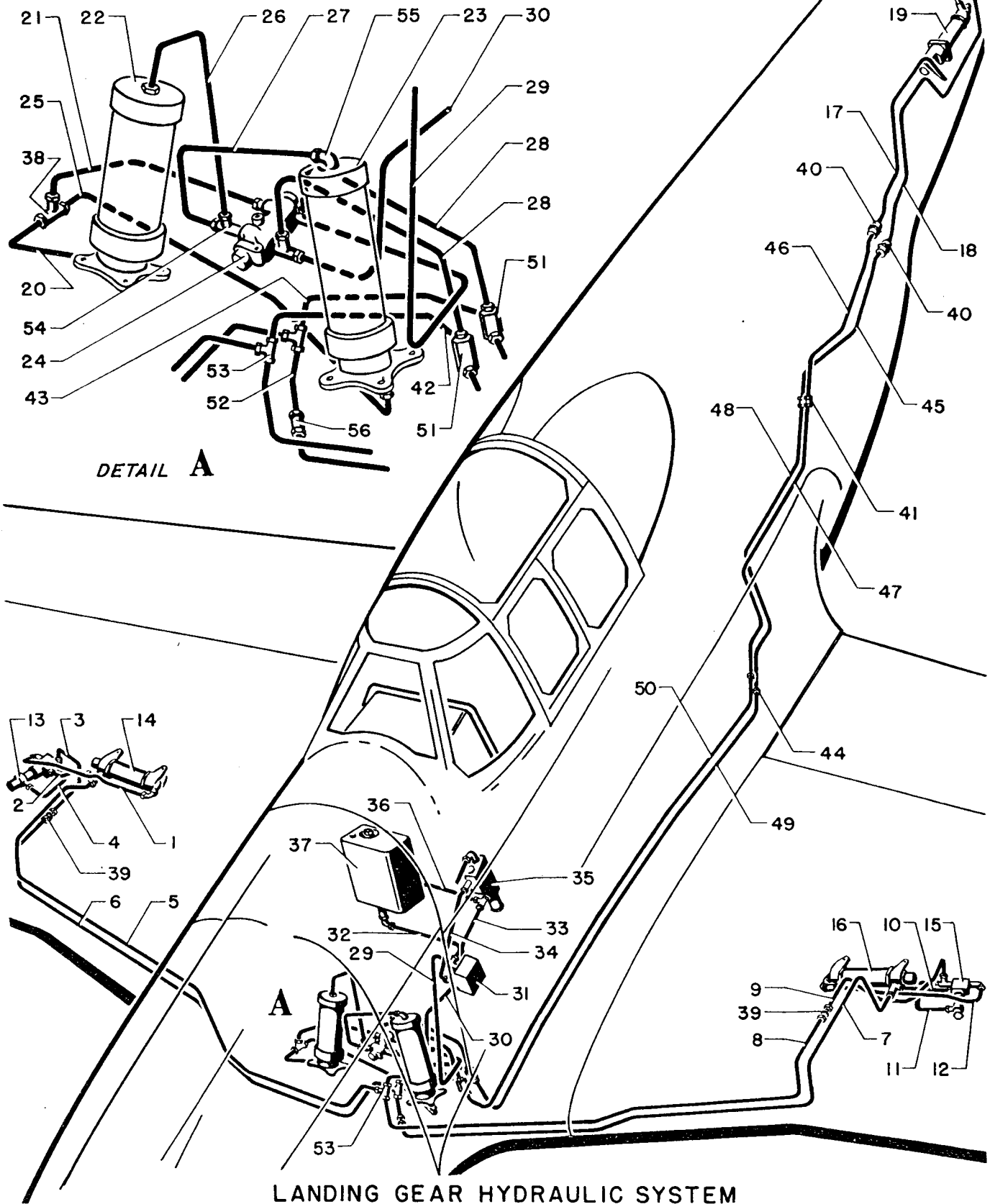
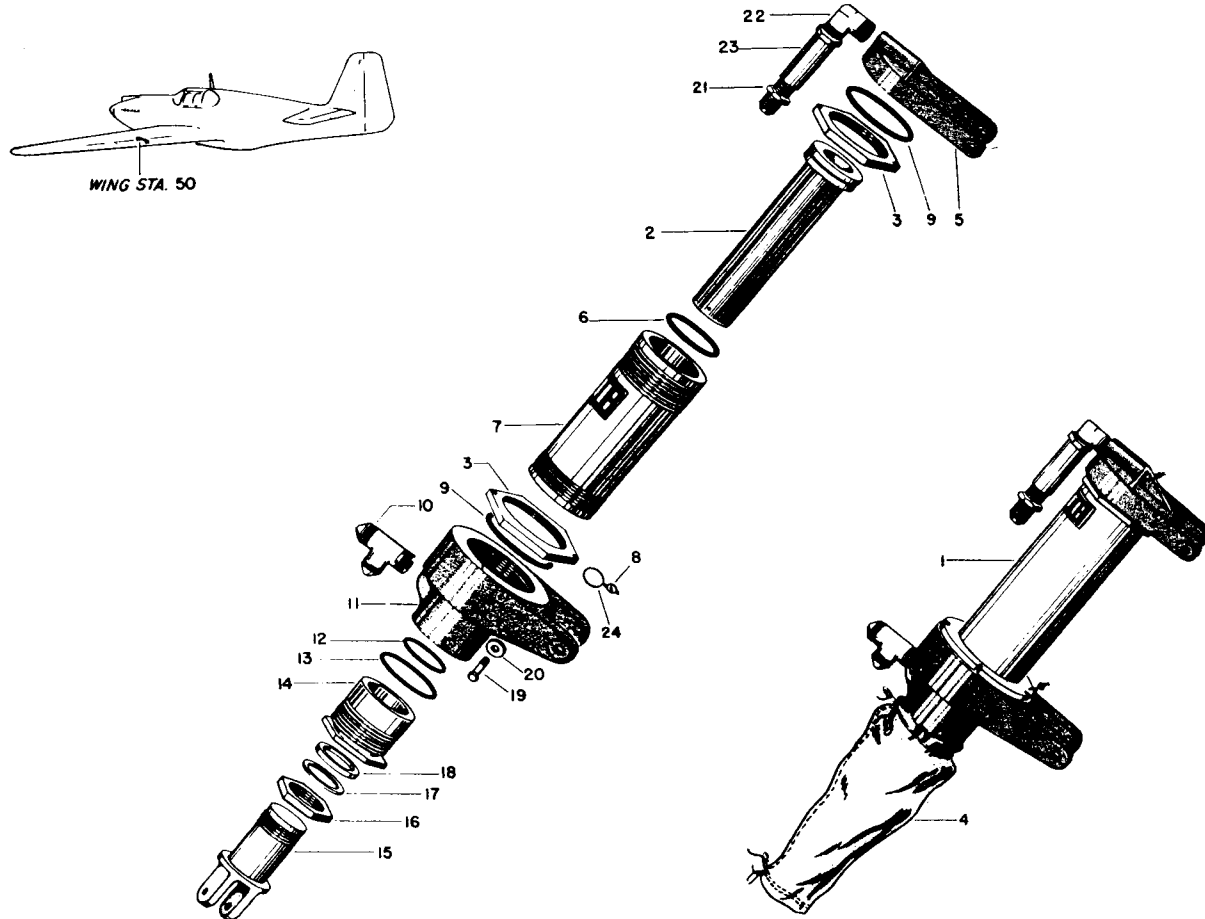


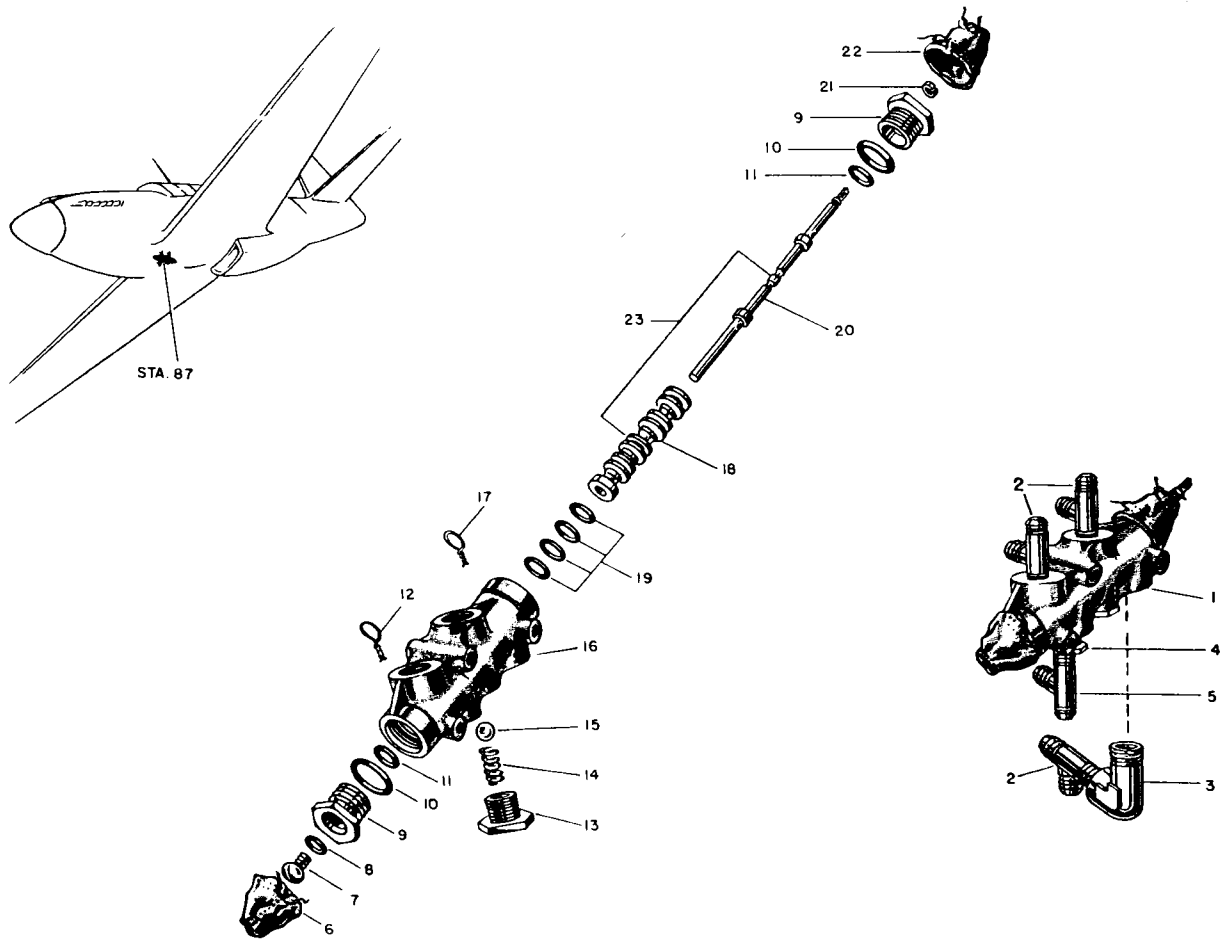
FIGURE No. 30
RESTRICTED



LANDING GEAR OPERATING STRUT

FIGURE No. 31

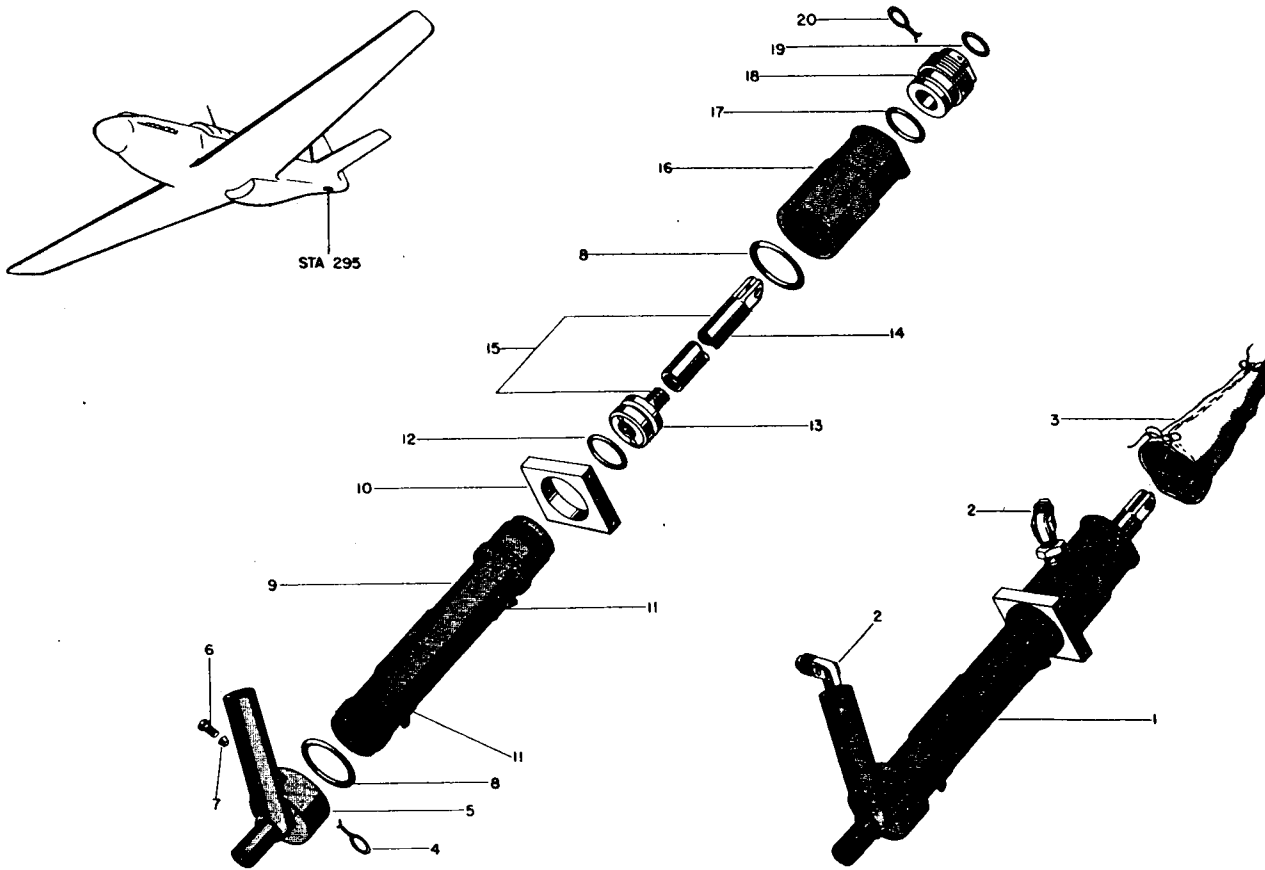
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|----------------|--|----------|
| 1 | 99-580272 | Strut Assem. - Hydraulic Landing Gear Operating Left (Complete With Fittings) | 1 | 9 | AN6230-7 | Ring | 4 |
| | 99-580273 | Strut Assem. - Hydraulic Landing Gear Operating Right (Complete With Fittings) | 1 | 10 | 6-4-5RT | Tee (Parker Appliance Co., Cleveland, Ohio.) | 2 |
| | 97-58027 | Strut Assem. - Hydraulic Landing Gear Operating (Less Fittings) | 2 | 11 | 97-58162 | End - Hydraulic Operating Strut Cylinder | 2 |
| 2 | 97-58302 | Piston - Hydraulic Landing Gear Operating Strut | 2 | 12 | AN6227-19 | Ring | 2 |
| 3 | 97-58718 | Nut - Hydraulic Operating Strut Head Lock | 4 | 13 | AN6227-25 | Ring | 2 |
| 4 | 99-58495 | Boot - Hydraulic Landing Gear Operating Strut | 2 | 14 | 97-58165 | Bearing - Hydraulic Operating Strut | 2 |
| 5 | 97-58174-2 | Head - Hydraulic Operating Strut Cylinder | 2 | 15 | 83-58304 | End - Hydraulic Landing Gear Operating Strut | 2 |
| 6 | AN6227-30 | Ring | 2 | 16 | 73-58305 | Nut - Hydraulic Landing Gear Operating Strut | 2 |
| 7 | 97-58144-2 | Cylinder - Hydraulic operating Strut | 2 | 17 | AN6231-9 | Ring | 2 |
| 8 | | Seal | 6 | 18 | B1136E-4-43 | Lock Ring | 2 |
| | | | | 19 | AN3-3A | Bolt - D.H. | 2 |
| | | | | 20 | B985K-12-10-64 | Washer | 2 |
| | | | | 21 | AC811FT-6 | Nipple | 2 |
| | | | | 22 | 4CR | Elbow (Parker Appliance Co., Cleveland, Ohio.) | 2 |
| | | | | 23 | 62-58084-7 | Restrictor (See Fig. No.20) | 10 |
| | | | | 24 | AC995-C40-6 | Lockwire | 10 |



FAIRING DOOR CONTROL VALVE

FIGURE No. 32

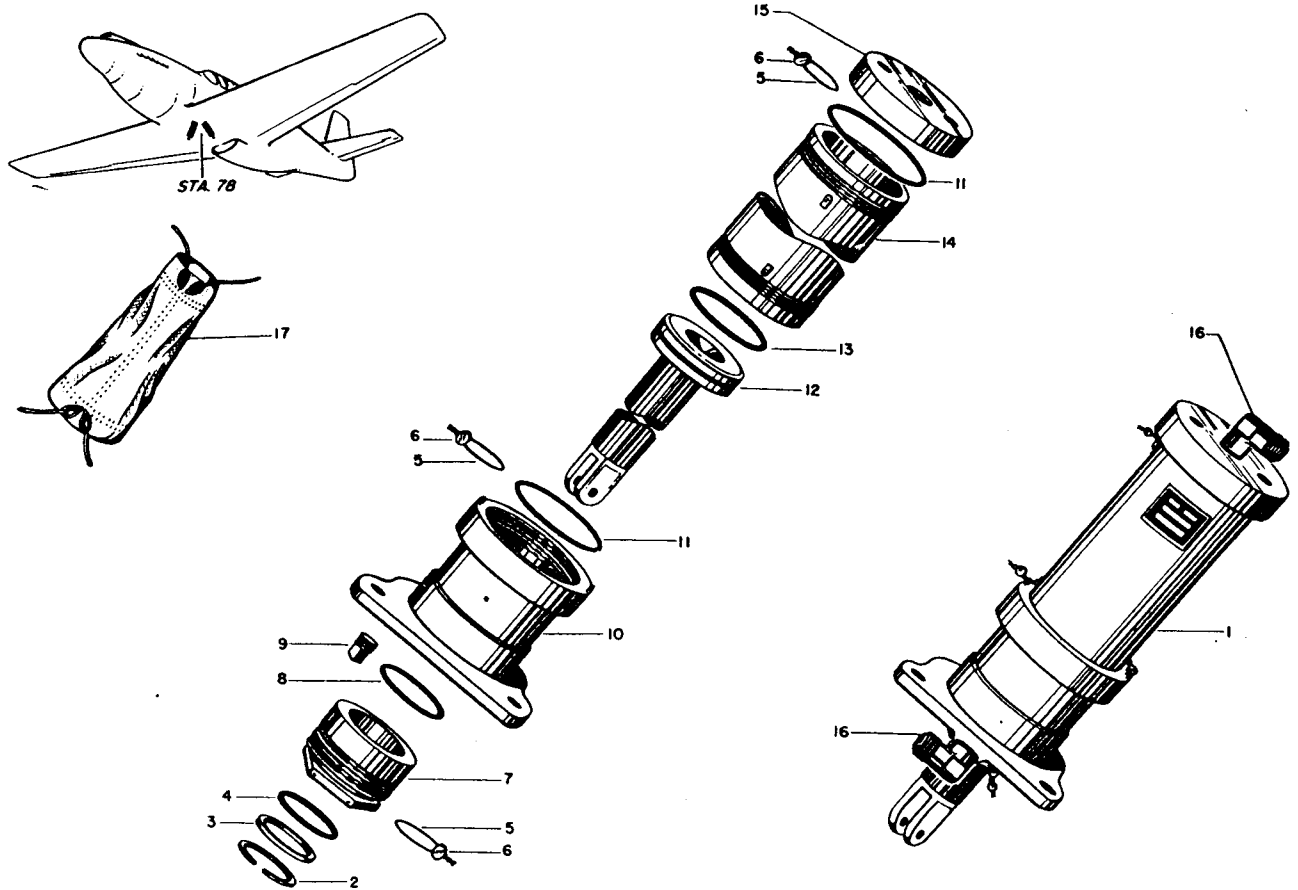
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|-------------|---|----------|
| 1 | 99-580190 | Valve Assem. - Hydraulic Landing Gear Fairing Door Control | 1 | 12 | AN995040-4 | Lockwire | 1 |
| | 99-58019 | Valve - Hydraulic Landing Gear Fairing Door Control Less Fittings | 1 | 13 | 99-58473 | Bolt - Hydraulic Landing Gear Fairing Door Control Valve | 1 |
| | AN3-16A | Bolt - Attaching | 1 | 14 | 99-58474 | Spring - Hydraulic Landing Gear Fairing Door Control Valve | 1 |
| 2 | AC811-RT6 | Tee | 3 | 15 | | 1/4 Diameter Stainless Steel Ball | 1 |
| 3 | AN914-2 | Elbow | 3 | 16 | 99-58468 | Body - Hydraulic Landing Gear Fairing Door Control Valve | 1 |
| 4 | AN912-1 | Bushing | 1 | 17 | AN995040-6 | Lockwire | 1 |
| 5 | AC811-RT5 | Tee | 1 | 18 | 99-58499 | Sleeve - Hydraulic Landing Gear Fairing Door Control Valve | 1 |
| 6 | 99-58496 | Boot - Hydraulic Landing Gear Fairing Door Control Valve | 1 | 19 | AN6227-12 | Ring - Seal | 4 |
| 7 | 99-58753 | Plug - Hydraulic Landing Gear Fairing Door Control Valve | 1 | 20 | 99-58470 | Shaft - Hydraulic Landing Gear Fairing Door Control Valve | 1 |
| 8 | AN6227-1 | Seal | 1 | 21 | B1135E-4-9 | Snap Ring | 1 |
| 9 | 99-58472 | End - Hydraulic Landing Gear Fairing Door Control Valve | 2 | 22 | 99-58496-2 | Boot - Hydraulic Landing Gear Fairing Door Control Valve | 1 |
| 10 | AN6227-15 | Ring - Seal | 2 | 23 | 99-58471 | Sleeve Assem. - Hydraulic Landing Gear Fairing Door Control Valve | 1 |
| 11 | AN6227-7 | Ring - Seal | 2 | | | | 1 |



HYDRAULIC TAIL WHEEL OPERATING STRUT

FIGURE No. 33

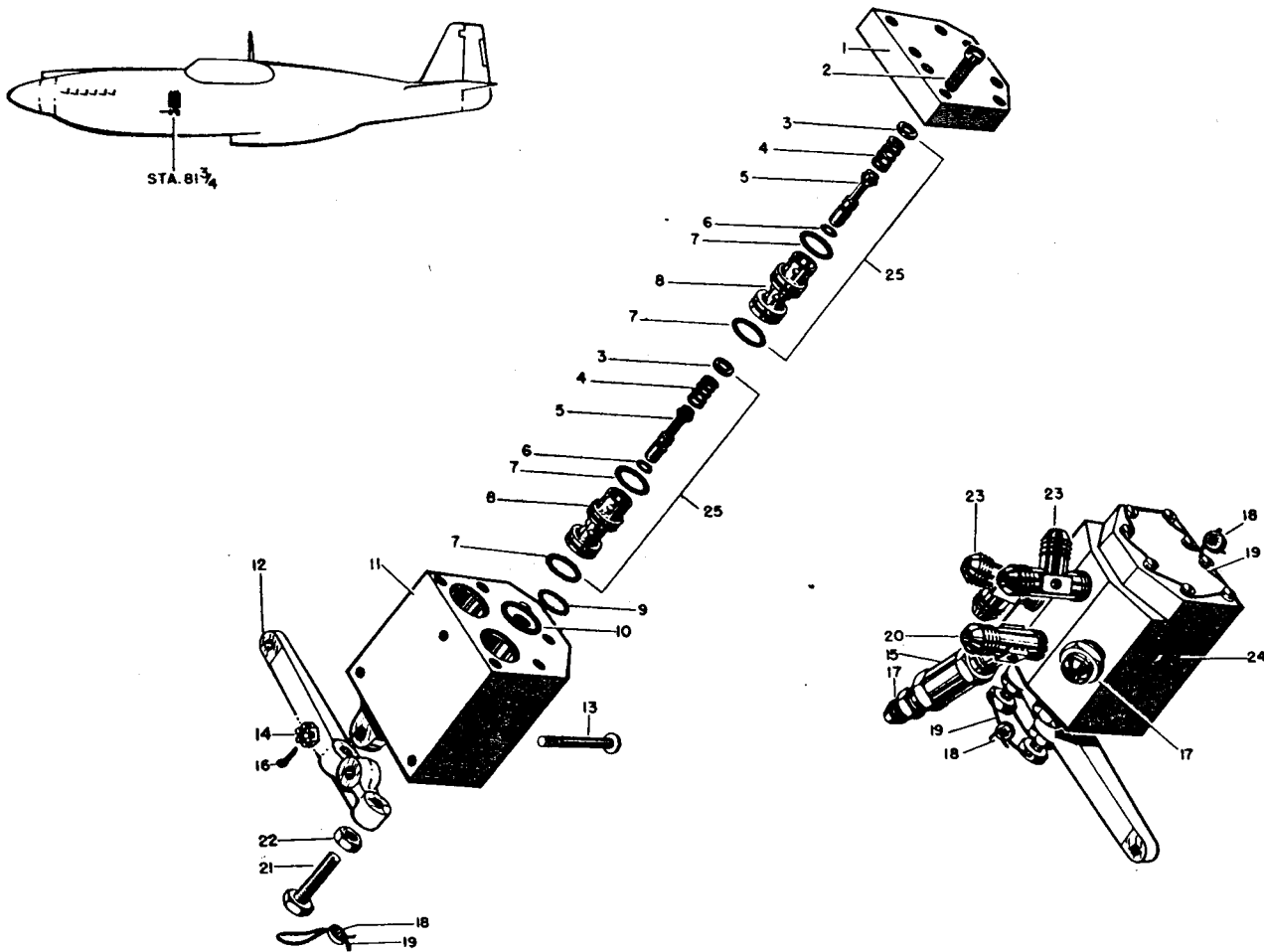
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|---------------|--|----------|---------|-------------|--|----------|
| 1 | 99-580300 | Strut Assem. - Hydraulic Tail Wheel Operating Complete | 1 | 11 | 73-58113 | Lug - Hydraulic Tail Wheel Operating Strut | 2 |
| | 99-58030 | Strut - Hydraulic Tail Wheel Operating Less Fittings | 1 | 12 | AN6227-18 | Ring | 1 |
| 2 | AC811CT-5 | Elbow | 2 | 13 | 97-58104 | Piston - Hydraulic Tail Wheel Operating Strut | 1 |
| 3 | 99-58498 | Boot - Hydraulic Tail Wheel Operating Strut | 1 | 14 | 73-58105 | Rod - Hydraulic Tail Wheel Operating Strut | 1 |
| 4 | AC995040-3 | Lockwire | 3 | 15 | 97-58106 | Piston Assem. - Hydraulic Tail Wheel Operating Strut | 1 |
| 5 | 99-58109 | Head - Hydraulic Tail Wheel Operating Strut | 1 | 16 | 99-58111 | End - Hydraulic Tail Wheel Operating Strut | 1 |
| 6 | AC503-8-4 | Screw | 1 | 17 | AN6227-17 | Ring | 1 |
| 7 | B985NB-0-4-94 | Washer | 1 | 18 | 97-58103 | Bearing - Hydraulic Tail Wheel Operating Strut | 1 |
| 8 | AN6227-24 | Ring | 2 | 19 | AN6227-12 | Ring | 1 |
| 9 | 99-58107 | Cylinder - Hydraulic Tail Wheel Operating Strut | 1 | 20 | AC995040-9 | Lockwire | 1 |
| 10 | 99-58608 | Ring - Hydraulic Tail Wheel Operating Strut | 1 | | | | |



HYDRAULIC LANDING GEAR FAIRING DOOR STRUT

FIGURE No. 34

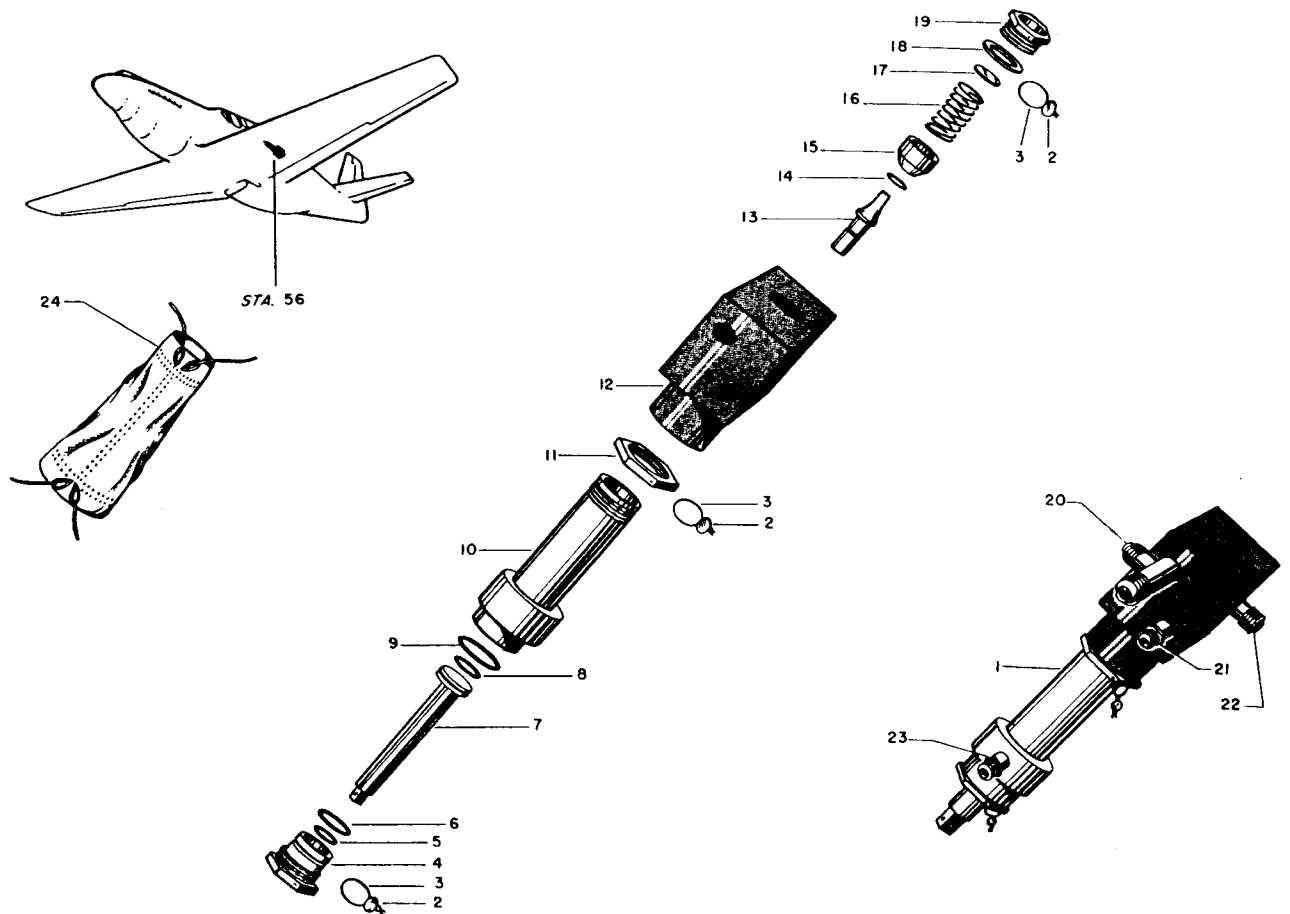
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|-------------|--|----------|
| 1 | 97-58041 | Strut Assem. - Fairing Door Operating Less Fittings | | 4 | AN6227-19 | Ring | 1 |
| | 99-580412 | Strut - Hydraulic Landing Gear Fairing Door Operating Complete With Fittings For L.H. | 2 | 5 | AC995C40-4 | Lockwire | 2 |
| | | | | 6 | | Leadseal | 2 |
| | | | | 7 | 97-58165 | Bearing - Fairing Door Strut | 1 |
| | | | | 8 | AN6227-25 | Ring | 1 |
| | AC811-CT-5 | Elbow | 1 | 9 | AC895-B70 | Plug | 1 |
| | 99-580413 | Strut - Hydraulic Landing Gear Fairing Door Operating Complete With Fittings For R.H. | 2 | 10 | 97-58181 | End | 1 |
| | | | | 11 | AN6230 | Ring | 1 |
| | | | | 12 | 97-58180-8 | Piston - Fairing Door Strut | 2 |
| | | | | 13 | AN6227-32 | Ring | 1 |
| | 6-2-CT | Elbow | 1 | 14 | 97-58179 | Cylinder - Fairing Door Strut | 1 |
| | AC811-FT-5 | Nipple | 1 | 15 | 97-58183 | Cap - Fairing Door Strut | 1 |
| 2 | B1136E-4-43 | Lock Ring | 1 | 16 | AC811CT-5 | Elbow | 2 |
| 3 | AN6231-9 | Ring | 1 | 17 | 99-58495 | Boot - Hydraulic Landing Gear Fairing Door Operating Strut | 1 |



HYDRAULIC LANDING GEAR SELECTOR VALVE

FIGURE No. 35

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|----------|--------------|---|----------|
| 1 | 97-58639 | Cap - Hydraulic Selector Valve. | 1 | 14 | AN320-3 | Nut | 1 |
| 2 | AN502-10-12 | Screw | 8 | 15 | 47SGG-Y4D | Valve - Check | 1 |
| 3 | 97-58635 | Retainer | 4 | 16 | AN380-2-2 | Pin | 1 |
| 4 | 97-58636 | Spring - Hydraulic Selector Valve Actuating | 4 | 17 | AC811-FT6 | Nipple | 2 |
| 5 | 97-58633 | Valve - Hydraulic Selector Unit | 4 | 18 | | Lead Seal | 3 |
| 6 | AN6227-1 | Ring | 4 | 19 | AN995-C40-10 | Lockwire | 3 |
| 7 | AN6227-11 | Ring | 8 | 20 | RST-6 | Tee | 1 |
| 8 | 97-58634 | Cartridge - Hydraulic Selector Unit | 4 | 21 | B1174-10 | D.H. Bolt | 2 |
| 9 | AN6227-11 | Ring | 1 | 22 | AN316-4R | Check Nut | 2 |
| 10 | AN6227-14 | Ring | 2 | 23 | AC811RT-6 | Tee | 2 |
| 11 | 99-58640 | Body - Hydraulic Landing Gear Selector Valve | 1 | 24 | 97-580112 | Valve Assem. - Hydraulic Landing Gear Selector Complete | 1 |
| 12 | 97-58638 | Arm - Hydraulic Landing Gear Selector Valve | 1 | 97-58011 | | Valve Assem. - Hydraulic Landing Gear Selector Complete Less Fittings | 1 |
| 13 | AN23-23 | Clevis Bolt | 1 | 25 | 97-58637 | Cartridge Assem. - Hydraulic Selector Unit Complete | 4 |



HYDRAULIC LANDING GEAR DOWN LOCK STRUT

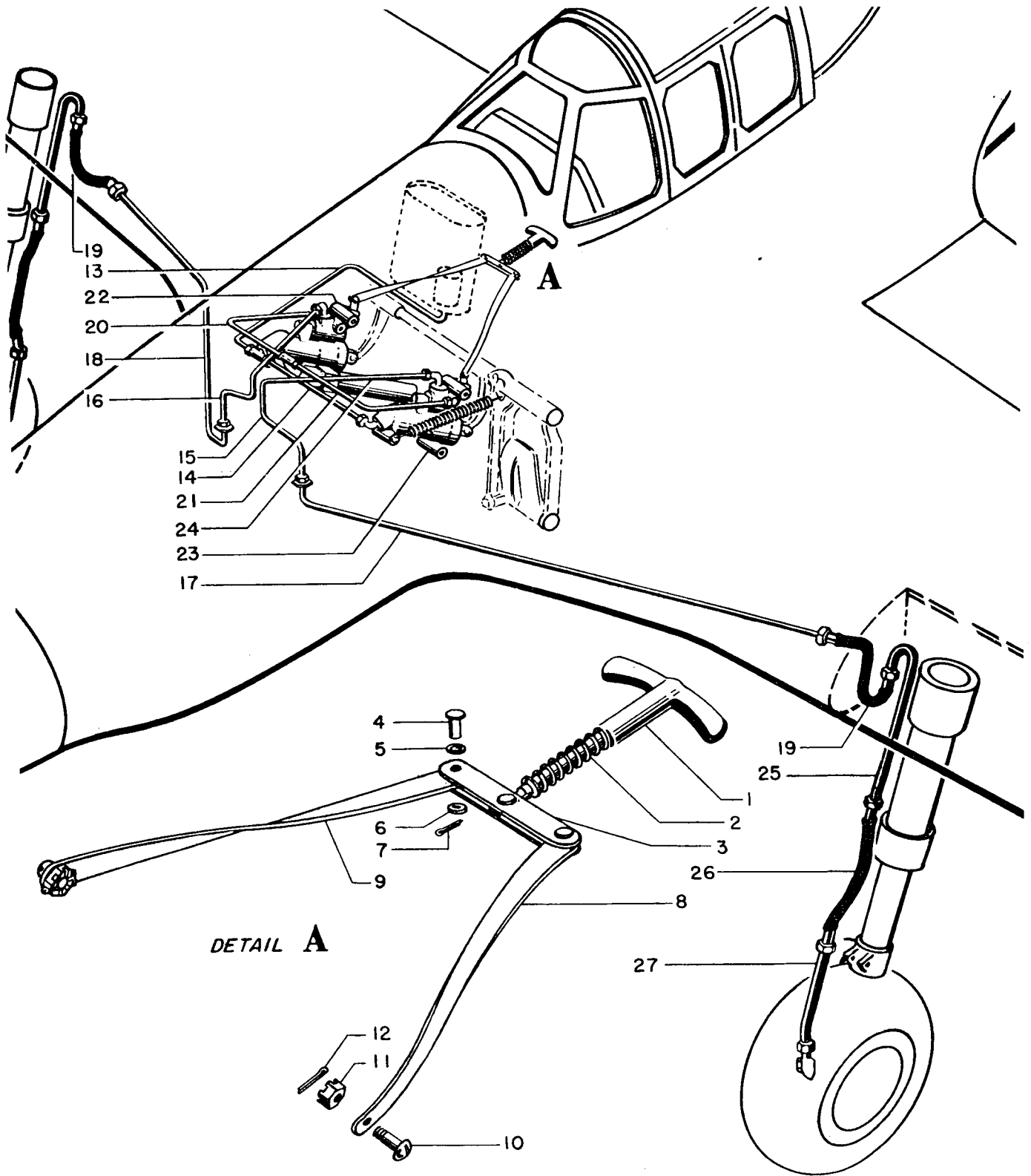
FIGURE No. 36

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|----------------|--|----------|
| 1 | 99-580282 | Strut Assem. - Hydraulic Landing Gear Down Lock L.H. | 1 | 13 | 97-58443 | Plunger - Hydraulic Landing Gear Down Lock Strut | 1 |
| | 99-580283 | Strut Assem. - Hydraulic Landing Gear Down Lock R.H. | 1 | 14 | AN6227-1 | Ring | 1 |
| 2 | | Leadseal | 2 | 15 | 97-58442 | Valve - Hydraulic Landing Gear Down Lock Strut | 1 |
| 3 | AC995040-6 | Lockwire | 2 | 16 | 73-33462 | Spring - Hydraulic Landing Gear Down Lock Strut | 1 |
| 4 | 97-58417 | Bearing - Hydraulic Landing Gear Down Lock Strut | 1 | 17 | B985AL-0-19-32 | Washer | 1 |
| 5 | AN6227-9 | Ring | 1 | 18 | B985K-49-32-62 | Washer | 1 |
| 6 | AN6227-11 | Ring | 1 | 19 | B1223-12E | Plug | 1 |
| 7 | 97-58420 | Piston - Hydraulic Landing Gear Down Lock Strut | 1 | 20 | AC811RT-6 | Tee | 1 |
| 8 | AN6227-11 | Ring | 1 | 21 | AC811FT-5 | Nipple | 1 |
| 9 | AN6227-17 | Ring | 1 | 22 | AC811CT-6 | Elbow | 1 |
| 10 | 97-58422 | Cylinder - Hydraulic Landing Gear Down Lock Strut | 1 | 23 | 6-2FT | Nipple (Parker) | 1 |
| 11 | 91-58419 | Nut - Hydraulic Landing Gear Down Lock Strut | 1 | 24 | 99-58497 | Boot - Hydraulic Landing Gear Down Lock Strut | 1 |
| 12 | 91-58416 | Head - Hydraulic Landing Gear Down Lock Strut | 1 | | | | |

HYDRAULIC BRAKE SYSTEM

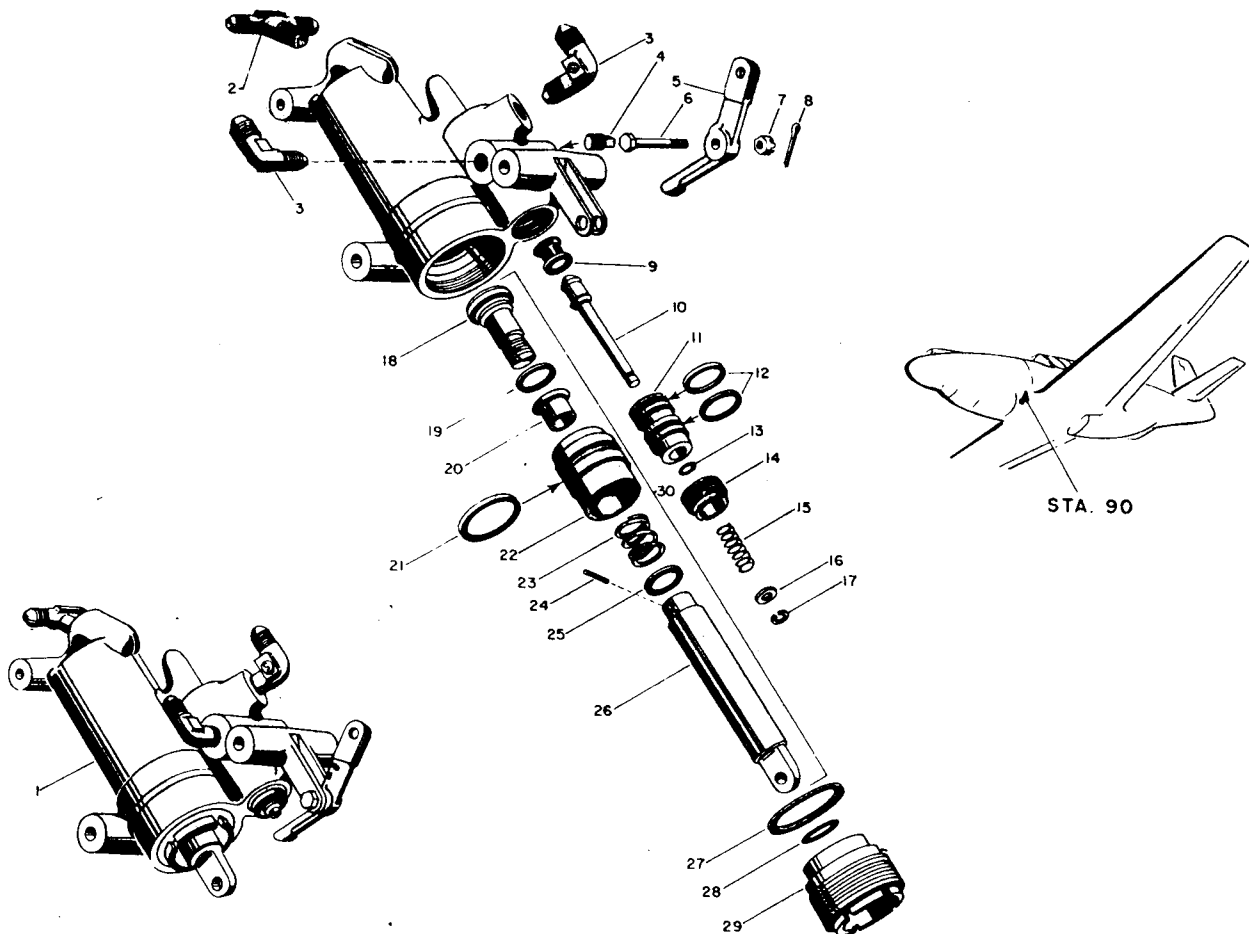
FIGURE No. 37

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|-------------|---|----------|
| 1 | 99-33440 | Handle - Parking Brake | 1 | 19 | 316-5-16 | Hose | 2 |
| 2 | 73-33461 | Spring - Parking Brake | 1 | | 99-33463 | Clip | 2 |
| | AC960-D516 | Washer | 1 | 20 | 99-33498 | Line - Right Brake To Compensator | 1 |
| | AN380-2-2 | Pin - Cotter | 1 | | AC811ST-5 | Tee | 1 |
| 3 | 73-33449 | Lever - Parking Brake Handle | 1 | 21 | 99-33499 | Line - Left Brake To Compensator | 1 |
| 4 | AN393-7 | Pin | 3 | 22 | 99-334020 | Cylinder Assem. - Master Brake Left Complete (See Fig. No. 38) | 1 |
| 5 | AN960-10 | Washer | 3 | | 99-33402 | Cylinder Assem. - Master Brake Right And Left (Less Fittings) (See Fig. No. 38) | 1 |
| 6 | AN960-10L | Washer | 2 | | | | |
| 7 | AN380-2-3 | Pin - Cotter | 3 | | | | |
| 8 | 99-33448 | Link - Parking Brake Handle L.H. | 1 | 23 | 99-334021 | Cylinder Assem. - Master Brake Right Complete (See Fig. No. 38) | 1 |
| 9 | 99-33448-1 | Link - Parking Brake Handle R.H. | 1 | | | | |
| 10 | AN23-8 | Bolt | 2 | 24 | 99-334040 | Compensator Assem. - Hydraulic Brake Complete (See Fig. No. 38) | 1 |
| 11 | AN320-3 | Nut | 2 | | 99-33404 | Compensator Assem. - Hydraulic Brake (Less Fittings) (See Fig. No. 39) | 1 |
| 12 | AN380-2-2 | Pin - Cotter | 2 | | | | |
| 13 | 83-33490 | Line - Reservoir To Cylinder Right Brake | 1 | 25 | 99-33497 | Line - Main Landing Gear Hose To Brake Hose Left | 1 |
| | AC811CT-6 | Elbow | 1 | | 99-334101 | Line - Main Landing Gear Hose To Brake Hose Right | 1 |
| | AC811ST-6 | Tee | 1 | | 73-33455 | Clamp | 2 |
| 14 | 83-33491 | Line - Left Cylinder Tee To Right Brake | 1 | | 1755-5-2-6 | Clip (Adel) | 2 |
| | AC811CT-6 | Elbow | 1 | | BI287-8-10 | Screw | 2 |
| 15 | 99-33492 | Line - Cylinder To Bulkhead Union Left Brake | 1 | | B1070-8-8 | Nut | 2 |
| | 755-12-2-6 | Clip (Adel) | 1 | 26 | AC530-8-12 | Screw (Phillips) | 2 |
| | 3115-1HT-5 | Bulkhead Union (Parker) | 2 | | 316-5-16 | Hose | 2 |
| 16 | 99-33494 | Line - Cylinder To Bulkhead Union Right Brake | 1 | | 73-33460 | Clamp - Landing Gear Upper Line To Lower Brake Hose L.H. | 1 |
| | 755-10-2-6 | Clip (Adel) | 1 | | 73-33460-1 | Clamp - Landing Gear Upper Line To Lower Brake Hose R.H. | 1 |
| | 755-2-6 | Clip (Adel) | 2 | | AN960-816 | Washer - (Left Hand Only) | 1 |
| | AC530-8-8 | Screw (Phillips) | 2 | | AN3-11A | Bolt | 2 |
| | 1778-M-1 | Nut (Tinnerman) | 2 | | AC365-1032 | Nut | 2 |
| 17 | 99-33493 | Line - Bulkhead Union To Wing Sta. 54 Hose Left Brake | 1 | | AN380-3-3 | Pin - Cotter | 2 |
| | 755-5-2-6 | Clip (Adel) | 6 | 27 | 83-334100 | Line - Landing Gear Hose To Wheel Cylinder | 2 |
| | AC530-8-8 | Screw (Phillips) | 6 | | 73-33456 | Clamp - Landing Gear Hose To Brake Line | 2 |
| | 1778-M-1 | Nut (Tinnerman) | 6 | | | | |
| | B1180E-12-8 | Clamp | 2 | | AN3-11A | Bolt | 2 |
| | AN3-12 | Bolt | 4 | | AC365-1032 | Nut | 2 |
| 18 | AN365-1032 | Nut | 4 | | AN380-3-3 | Pin - Cotter | 2 |
| | 99-33496 | Line - Wing Sta. "0" Bulkhead To Sta. 54 Hose Right Brake | 1 | | | | |



HYDRAULIC BRAKE SYSTEM

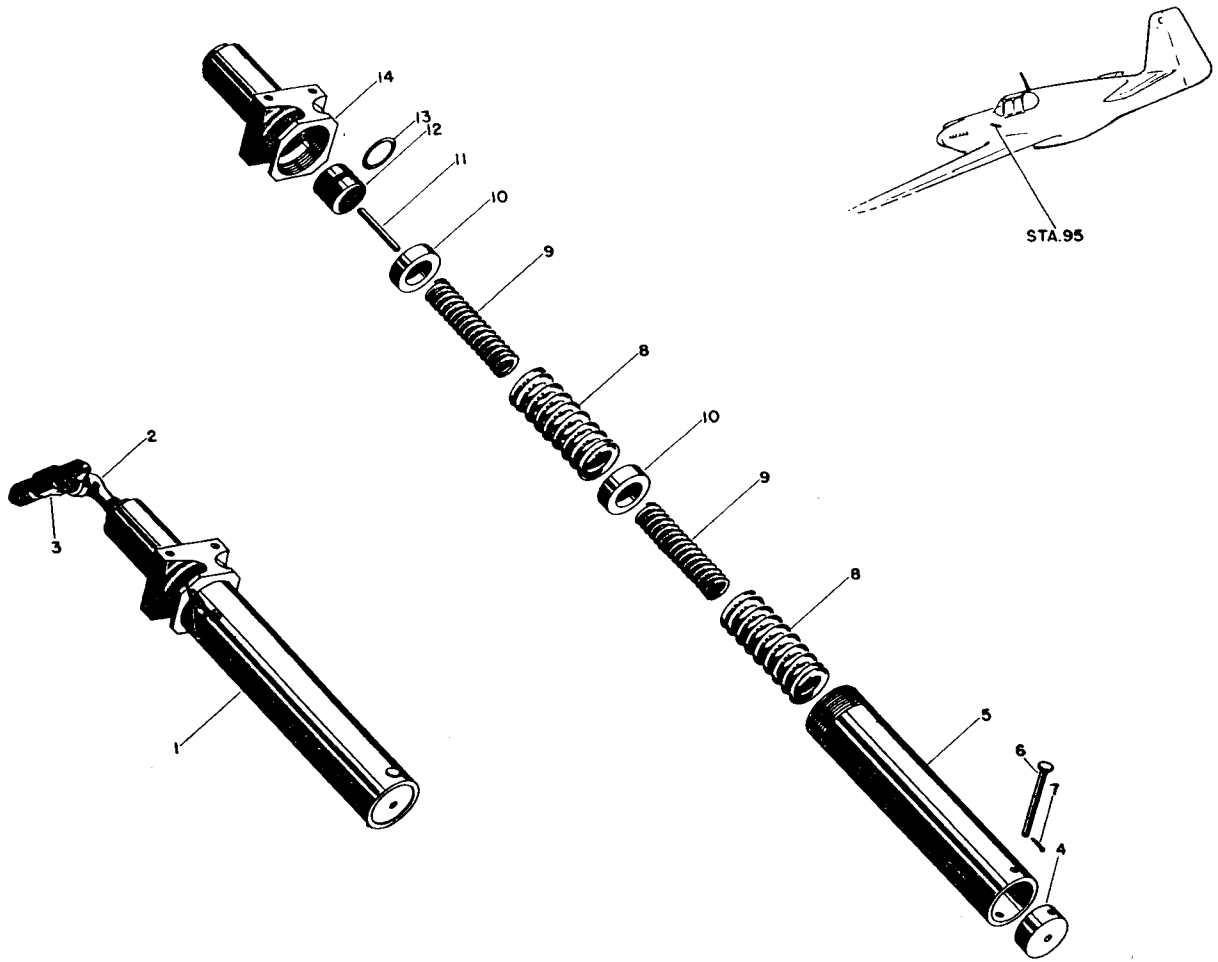
FIGURE No. 37
RESTRICTED



MASTER BRAKE CYLINDER

FIGURE No. 38

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|-----------------|---|----------|
| 1 | 99-334020 | Cylinder Assembly - Master Brake Complete L.H. | 1 | 14 | 73-33425 | Bearing - Master Brake Cylinder | 2 |
| | 99-334021 | Cylinder Assembly - Master Brake Complete R.H. | 1 | 15 | 19-33412 | Spring - Master Brake Cylinder | 2 |
| | 99-33402 | Cylinder Assembly - Master Brake Less Fittings | 2 | 16 | AN960-416 | Washer | 2 |
| 2 | AC811ST-6 | Tee - (on R.H. Cylinder) | 1 | 17 | 19-33461 | Ring - Master Brake Cylinder | 2 |
| 3 | AC811CT-6 | Elbow - (on L.H. Cylinder) | 1 | 18 | 99-33416 | Valve - Master Brake Cylinder | 2 |
| 4 | AC811CT-5 | Elbow | 4 | 19 | AN6227-11 | Ring | 2 |
| 5 | AN913-1 | Plug | 2 | 20 | 99-33437 | Ring - Master Brake Cylinder | 2 |
| 6 | 73-33411 | Arm - Master Brake Cylinder | 2 | 21 | AN6227-17 | Ring | 2 |
| 7 | AN3-10 | Bolt | 2 | 22 | 99-33417 | Piston - Master Brake Cylinder | 2 |
| 8 | AN320-3 | Nut | 2 | 23 | 99-33419 | Spring - Master Brake Cylinder | 2 |
| 9 | AN380-2-2 | Pin - Cotter | 2 | 24 | 99-33438 | Pin - Master Brake Cylinder | 2 |
| 10 | 99-33452 | Seal - Master Brake Cylinder | 2 | 25 | B985AL-36-24-51 | Washer | 2 |
| 11 | 99-33451 | Stem - Master Brake Cylinder | 2 | 26 | 99-33420 | Rod - Master Brake Cylinder | 2 |
| 12 | 99-33423 | Gland - Master Brake Cylinder | 2 | 27 | AN6227-24 | Ring | 2 |
| 13 | AN6227-13 | Ring | 4 | 28 | AN6227-12 | Ring | 2 |
| | AN6227-5 | Ring | 2 | 29 | 99-33412 | End - Master Brake Cylinder | 2 |
| | | | | 30 | 99-33415 | Piston Assembly - Master Brake Cylinder | 2 |



PARKING BRAKE COMPENSATOR

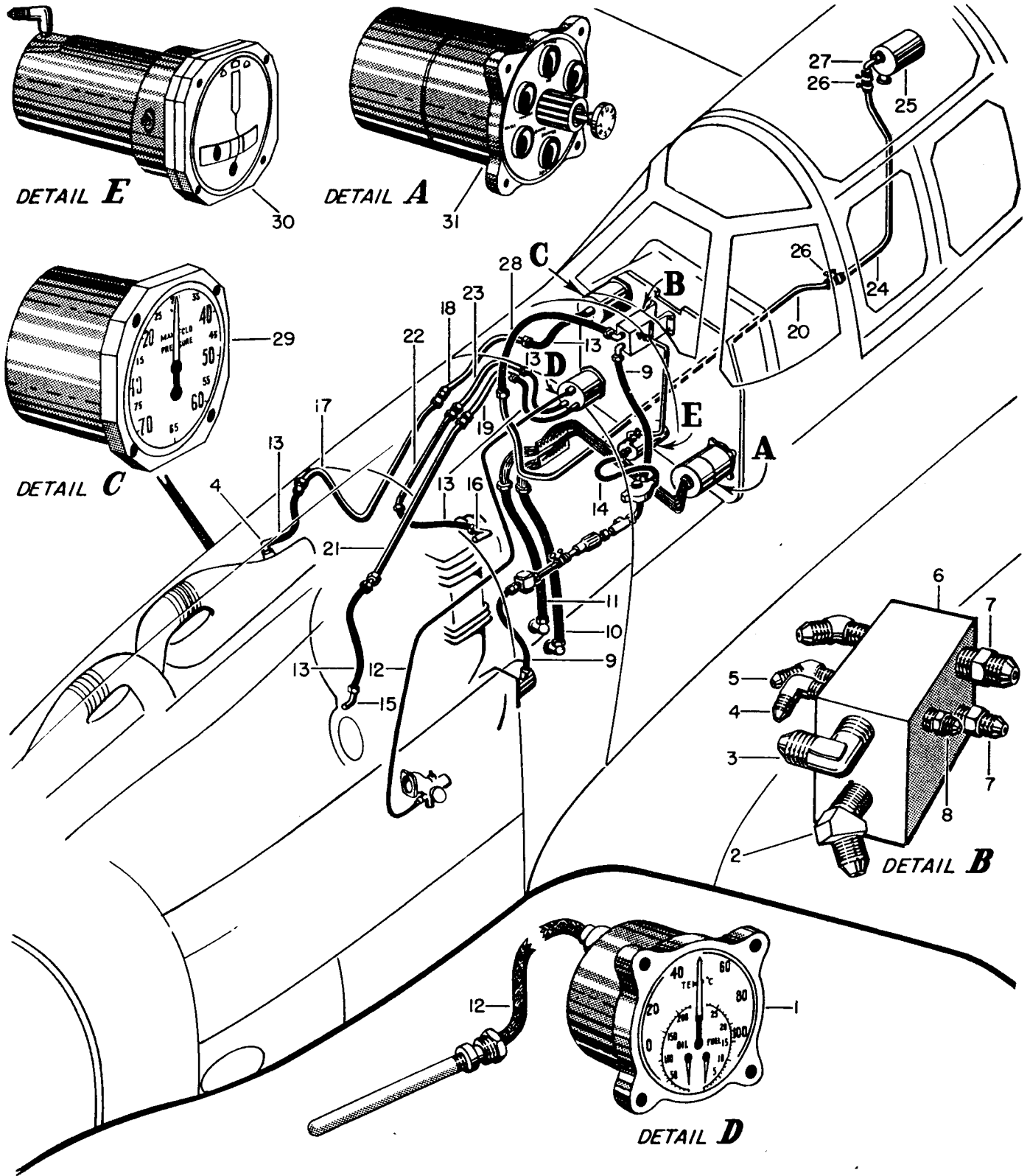
FIGURE No. 39

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|-------------|--|----------|
| 1 | 99-334040 | Compensator Assem. - Parking Brake Complete | 1 | 7 | AN380-2-2 | Pin - Cotter | 1 |
| | 99-33404 | Compensator Assem. - Parking Brake (Less Fittings) | 1 | 8 | 73-33447 | Spring - Parking Brake Compensator Outer | 2 |
| 2 | AN914-1 | Elbow | 1 | 9 | 99-33446 | Spring - Parking Brake Compensator Inner | 2 |
| 3 | AC811ST-5 | Tee | 1 | 10 | 99-33435 | Seat - Parking Brake Compensator | 2 |
| 4 | 73-33428 | Seat - Parking Brake Compensator | 1 | 11 | 99-33433 | Pin - Parking Brake Compensator | 1 |
| 5 | 99-33430 | Cylinder - Parking Brake Compensator | 1 | 12 | 99-33427 | Piston - Parking Brake Compensator | 1 |
| 6 | AN393-49 | Pin - Parking Brake Compensator | 1 | 13 | AN6227-14 | Ring - Parking Brake Compensator | 1 |
| | | | | 14 | 99-33431 | Head - Parking Brake Compensator | 1 |

INSTRUMENTS AND LINES

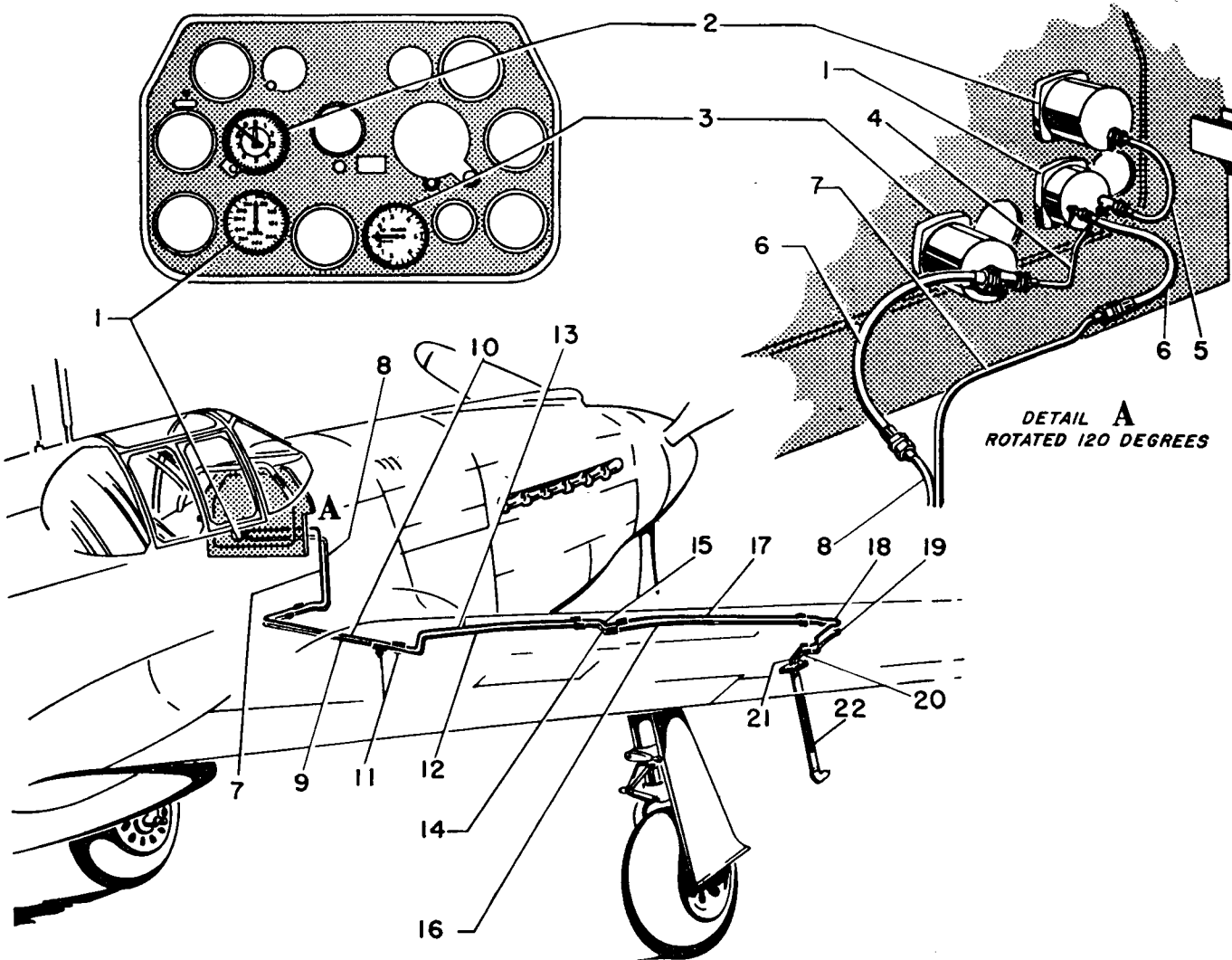
FIGURE No. 40

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|------------------|---|----------|---------|---------------|--|----------|
| 1 | Spec. | | | 17 | 97-51820 | Line - Manifold Pressure 2nd Section | 1 |
| | AC94-27943 | Type B-7 Engine Gage (G.F.E.) | 1 | 18 | 97-51819 | Line - Manifold Pressure 1st Section | 1 |
| 2 | AC811-CT-45-80 | Elbow - Vacuum Block | 1 | 19 | 97-51826 | Line - Firewall To Gage Oil Pressure | 1 |
| 3 | AC811-CT-8D | Elbow - Vacuum Block | 1 | 20 | 97-51809 | Line - Vacuum Block To Filter 1st Section | 1 |
| 4 | AC811-CT-4D | Elbow - Vacuum Block | 2 | 21 | 97-51827 | Line - Engine To Firewall Oil Pressure | 1 |
| 5 | AC811-CT45-6D | Elbow | 1 | 22 | 97-51823 | Line - Fuel Pressure Carburetor Flexible Hose To Firewall | 1 |
| 6 | 97-51018 | Block - Vacuum & Filter Manifold | 1 | 23 | 97-51822 | Line - Fuel Pressure Gage Hose To Firewall | 1 |
| 7 | AC811-FT-6D | Nipple - Vacuum Block | 2 | 24 | 99-51810 | Line - Vacuum Block To Filter 2nd Section | 1 |
| 8 | AC811-FT-4D | Nipple - Vacuum Block | 1 | 25 | AC94-27366 | Air Filter - Vacuum Block (G.F.E.) | 1 |
| 9 | AC39B3480-816 | Flexible Hose - Vacuum Pump To Valve | 2 | 26 | AN884-8-10 | Hose - Air Filter To Vacuum Block Connecting | 2 |
| 10 | 63-54050-8BB-250 | Conduit - Wing Disconnect Plug L.H. | 1 | 27 | AN842-8D | Elbow - Air Filter Connecting | 1 |
| 11 | 63-54050-8BB-124 | Conduit - Wing Disconnect Plug R.H. | 1 | 28 | AC39B3481-816 | Flexible Hose - Vacuum Block To Air Filter Line Connecting | 1 |
| 12 | | Oil Temperature Capillary Line "y" Valve To Engine Gage | 1 | 29 | AC94-27938 | Manifold Pressure Gage Type D-10 (G.F.E.) | 1 |
| 13 | AC39B3481-414 | Flexible Hose | 6 | 30 | AN-5820 | Bank And Turn Indicator Type A-11 (G.F.E.) | 1 |
| 14 | AC39B3480-414 | Flexible Hose | 1 | 31 | 97-54115-2 | Landing Gear Position Indicator (G.F.E.) | 1 |
| 15 | AC811CT45-4D | Fitting - Oil Pressure Connection Engine | 1 | | | | |
| 16 | AC37A3528 | Fitting - Fuel Pressure To Carburetor Connection | 1 | | | | |



INSTRUMENTS AND LINES

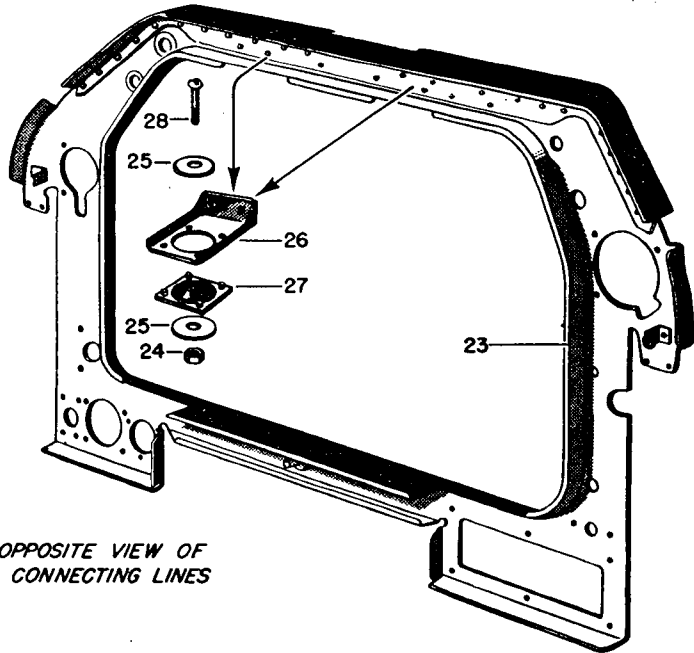
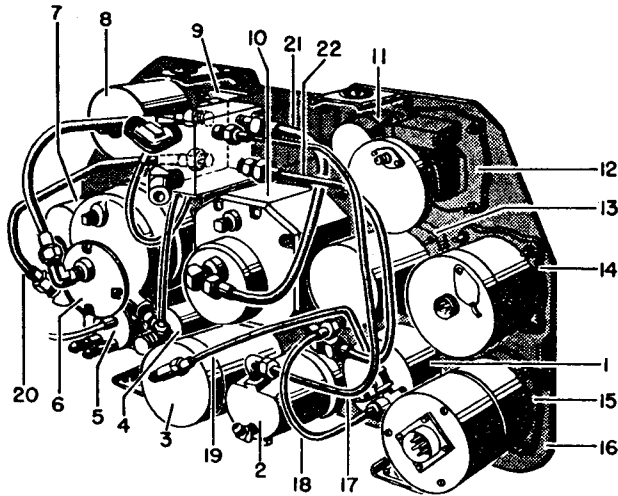
FIGURE No. 40
RESTRICTED



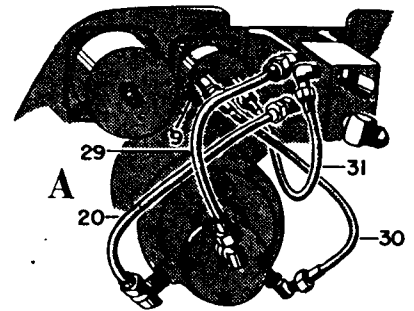
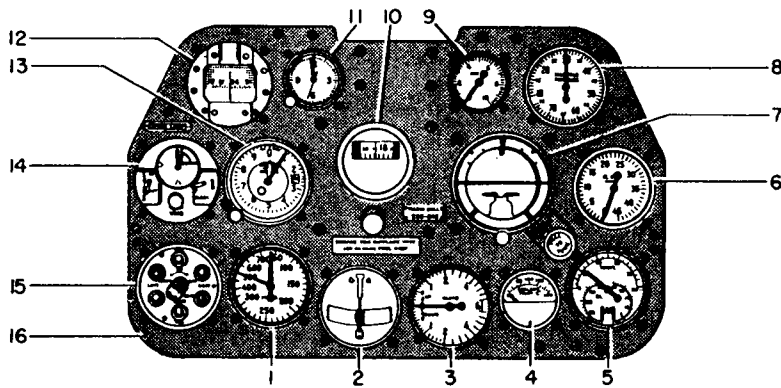
AIRSPPEED LINES AND INSTRUMENTS

FIGURE No. 41

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|------------------|---|----------|---------|-------------|--|----------|
| 1 | Spec. AC94-27335 | Indicator - Type F-2 Airspeed (G.F.E.) | 1 | 11 | 82-51006 | Sump - Airspeed Line | 2 |
| 2 | Spec. AC94-27958 | Altimeter - Type C-13 (G.F.E.) | 1 | 12 | 97-51836 | Line - Airspeed Indicator To Pitot Head 3RD Section | 1 |
| 3 | Spec. AC94-27967 | Indicator - Type C-2 Rate Of Climb (G.F.E.) | 1 | 13 | 97-51835 | Line - Rate Of Climb Indicator To Pitot Head 3RD Section | 1 |
| 4 | 97-51830 | Line - Airspeed Indicator To Rate Of Climb Indicator | 1 | 14 | 97-51843 | Line - Airspeed Indicator To Pitot Head 4TH Section | 1 |
| 5 | 97-51829 | Line - Altimeter To Airspeed Indicator | 1 | 15 | 97-51844 | Line - Rate Of Climb Indicator To Pitot Head 4TH Section | 1 |
| 6 | AC39B3481-414 | Hose - Flexible | 2 | 16 | 97-51837 | Line - Airspeed Indicator To Pitot Head 5TH Section | 1 |
| 7 | 97-51831 | Line - Airspeed Indicator To Pitot Head 1ST Section | 1 | 17 | 97-51838 | Line - Rate Of Climb Indicator To Pitot Head 5TH Section | 1 |
| 8 | 99-51832 | Line - Rate Of Climb Indicator To Pitot Head 11ST Section | 1 | 18 | 99-51842 | Line - Rate Of Climb Indicator To Pitot Head 6TH Section | 1 |
| 9 | 97-51833 | Line - Airspeed Indicator To Pitot Head 2ND Section | 1 | 19 | 99-51841 | Line - Airspeed Indicator To Pitot Head 6TH Section | 1 |
| 10 | 97-51834 | Line - Rate Indicator Of Climb To Pitot Head 2ND Section | 1 | 20 | 99-51839 | Line - Rate Of Climb Indicator To Pitot Head | 1 |
| | | | | 21 | 99-51840 | Line - Airspeed Indicator To Pitot Head | 1 |
| | | | | 22 | 99-51033 | Strut - Pitot Static Tube | 1 |



NOTE: DETAIL A OPPOSITE VIEW OF
VACUUM BLOCK AND CONNECTING LINES



INSTRUMENT PANEL

FIGURE No. 42

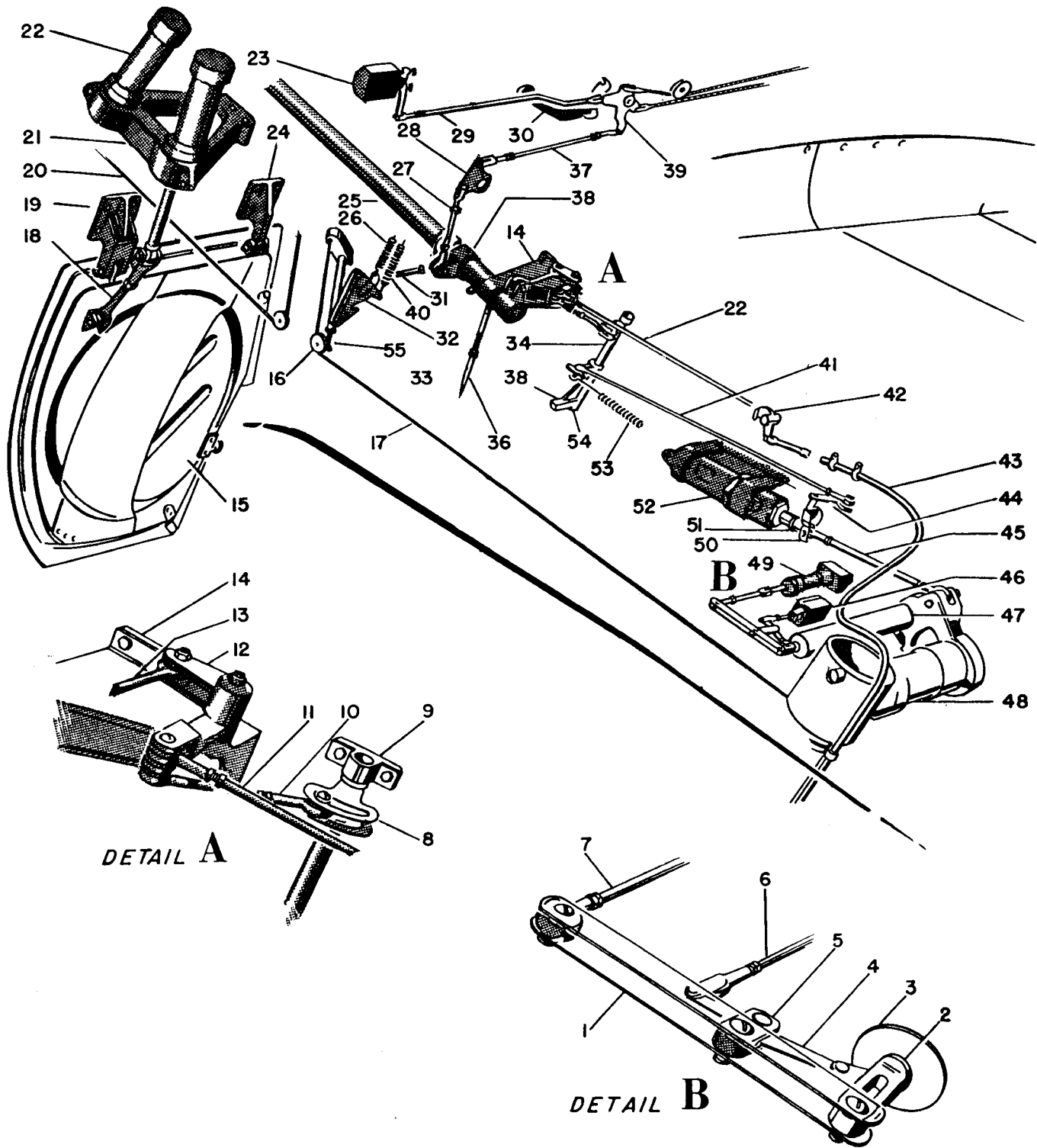
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|---------------------|--|----------|---------|--------------|---|----------|
| 1 | Spec. AC94-27335 | Type F-2 Airspeed Indicator* | 1 | 18 | 97-51829 | Line - Altimeter To Air Speed Indicator Static | 1 |
| 2 | Spec. AC94-27348 | Type A-1 Bank And Turn Indicator* | 1 | 19 | 97-51830 | Line - Rate Of Climb To Airspeed Indicator | 1 |
| 3 | Spec. AN5825 | Type C-2 Rate Of Climb Indicator* | 1 | 20 | 97-51804 | Line - Manifold Block To Flight Indicator Vacuum | 1 |
| 4 | Spec. AC94-27947 | Type A-23 Coolant Thermometer Gauge* | 1 | 21 | 97-51802 | Line - Manifold Block To Turn Indicator Filter | 1 |
| 5 | Spec. AC94-27943 | Type B-7 Engine Gauge* | 1 | 22 | 97-51801 | Line - Manifold Block To Turn Indicator Vacuum | 1 |
| 6 | Spec. AN5736 | Gyro Horizon Indicator* | 1 | 23 | 99-31137 | Sub - Panel Assembly | 1 |
| 7 | AC94-27353 | Type C-1 Tachometer* | 1 | 24 | AC365-D428 | Panel Attaching Nut | 4 |
| 8 | AC94-27938 | Type D-10 Manifold Pressure Indicator* | 1 | 25 | AC34A1766-D2 | Washer - Panel Attaching | 8 |
| 9 | Spec. AC27336 | Type F-4 Suction Gauge* | 1 | 26 | 97-51015-2 | Support - Instrument Panel To Sub Panel Upper | 4 |
| 10 | AN5735 | Directional Gyro Indicator* | 1 | 27 | AC33B5452-9 | Absorber - Mounting Bracket Upper Right | 4 |
| 11 | AC94-27970 | Type A-11 Clock* | 1 | 28 | AN4DD15A | Bolt - Panel Attaching | 4 |
| 12 | Spec. AC94-27807 | Type B-16 Compass* | 1 | 29 | 97-51805 | Line Assem. - Manifold Block To Flight Indicator Filter | 1 |
| 13 | Spec. AC94-27958 | Type C-13 Altimeter* | 1 | 30 | 97-51807 | Line - Suction Gauge To Flight Indicator | 1 |
| 14 | H42G3746 | Type BC-608 Contactor* | 1 | 31 | 97-51806 | Line - Manifold Block To Suction Gauge | 1 |
| 15 | 97-54115-2 | Landing Gear Position Indicator | 1 | | | | |
| 16 | 97-51002 | Panel Assem. - Instrument | 1 | | | | |
| 17 | 97-51803 | Line - Manifold Block To Bank & Turn Indicator | 1 | | | | |

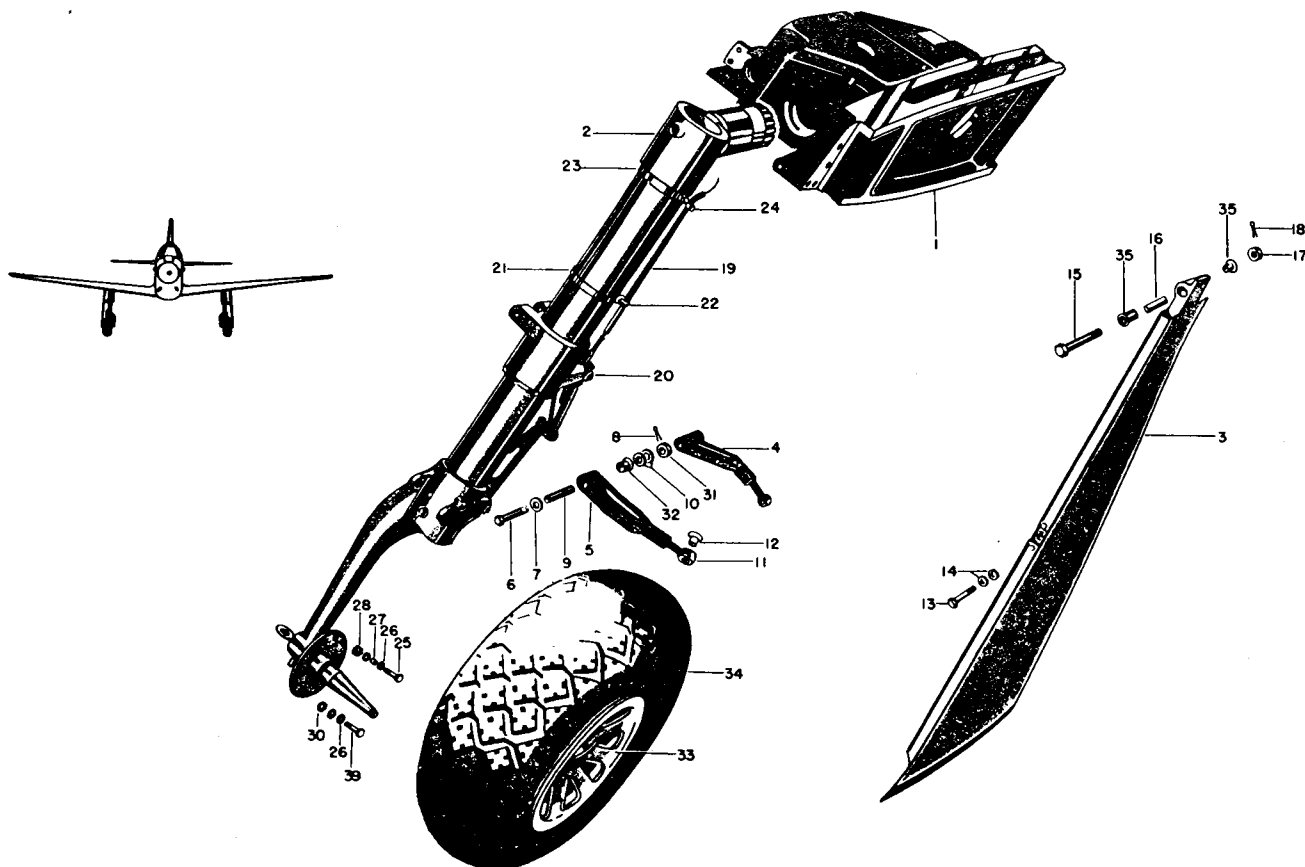
* Denotes Government Furnished Equipment.

LANDING GEAR CONTROL

FIGURE No. 43

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|------------------------------------|----------|---------|-------------|-----------------------------------|----------|
| 1 | 83-33521 | Arm - Landing Gear Lock Pin | 2 | 32 | 99-33558 | Arm - Landing Gear Hook Actuating | 2 |
| 2 | 73-33541 | Rod - Landing Gear Lock Pin | 2 | 33 | 73-33512 | Bellcrank - Landing Gear Lock | |
| 3 | 73-33527 | Cap - Landing Gear Lock Pin | 2 | | | Torque Tube L.H. | 1 |
| 4 | 73-54206 | Lever - Landing Gear Lock Pin | 2 | | 73-33512-1 | Bellcrank - Landing Gear Lock | |
| 5 | 73-33528 | Link - Landing Gear Lock Pin | 2 | | | Torque Tube R.H. | 1 |
| 6 | 73-54203 | Rod - Landing Gear Signal | 2 | 34 | 73-33328 | Tube - Landing Gear Fairing Door | |
| 7 | 73-33535 | Rod - Landing Gear Lock Pin | 2 | | | Lock | 2 |
| 8 | 73-33351 | Bellcrank - Landing Gear Fairing | | 35 | 73-33329 | Lock - Landing Gear Fairing Door | 2 |
| | | Door Lock | 2 | 35 | 73-33323 | Latch - Landing Gear Fairing | |
| 9 | 73-33331 | Bracket - Landing Gear Fairing | | | | Door L.H. | 1 |
| | | Door Lock | 2 | | 73-33323-1 | Latch - Landing Gear Fairing | |
| 10 | 73-33356 | Link - Fairing Door Lock | 2 | | | Door R.H. | 1 |
| 11 | 83-335101 | Rod - Landing Gear Safety | | 36 | 99-33585 | Rod - Landing Gear Lock Stop | 1 |
| | | Lock L.H. | 1 | 37 | 73-33532 | Rod - Lock Handle Control L.H. | 1 |
| 12 | 73-33522 | Bellcrank - Landing Gear Lock | | 38 | 73-33514 | Bellcrank - Lock Mechanism | |
| | | Rod L.H. | 1 | | | Inboard L.H. | 1 |
| | 73-33522-1 | Bellcrank - Landing Gear Lock | | | | Inboard R.H. | 1 |
| | | Rod R.H. | 1 | 39 | 73-33537 | Bellcrank - Landing Gear Lock | |
| 13 | 99-33515 | Link - Landing Gear Lock Torque | | | | Handle | 1 |
| | | Tube | 2 | 40 | 73-33506 | Spring - Hook Operating | 2 |
| 14 | 73-33504 | Fitting - Landing Gear Lock | | | 99-33559 | Hook - Retracted Position L.H. | 1 |
| | | Torque Tube L.H. | 1 | | 99-33559-1 | Hook - Retracted Position R.H. | 1 |
| | 73-33504-1 | Fitting - Landing Gear Lock | | 41 | 73-33361 | Rod - Door Stop Bellcrank | 2 |
| | | Torque Tube R.H. | 1 | 42 | 83-33546 | Bellcrank - Landing Gear Safety | |
| 15 | 73-33301 | Door - Fairing L.H. | 1 | | | Lock L.H. | 1 |
| | 73-33301-1 | Door - Fairing R.H. | 1 | 43 | 73-33549 | Control - Cable Safety Lock | 1 |
| 16 | AN210-1A | Pulley | 2 | 44 | 73-33363 | Bellcrank - Landing Gear Door | |
| 17 | 73-33577-2 | Cable - Landing Gear Position | | | | Lock L.H. | 1 |
| | | Indicator | 1 | | 73-33363-1 | Bellcrank - Landing Gear Door | |
| 18 | 73-33320 | Link - Fairing Door To Strut L.H. | 1 | | | Lock R.H. | 1 |
| | 73-33320-1 | Link - Fairing Door To Strut R.H. | 1 | 45 | 73-33578-3 | Rod - Landing Gear Retracting | |
| 19 | 73-33314 | Bracket - Front Fairing Door | | | | Strut Connecting | 2 |
| | | Hinge | 2 | 46 | 73-54220 | Box - Landing Gear Signal | |
| 20 | 73-33577-3 | Cable - Landing Gear Position | | | | Switch L.H. | 1 |
| | | Indicator | 1 | | 73-54220-1 | Box - Landing Gear Signal | |
| 21 | 73-33338 | Fitting - Hydraulic Landing Gear | | | | Switch R.H. | 1 |
| | | Door Strut | 1 | 47 | 83-33503 | Pin - Landing Gear Lock Complete | 2 |
| 22 | 73-58041 | Strut - Hydraulic Landing Gear | | 48 | 73-33102 | Strut - Landing Gear Shock L.H. | |
| | | Door (See Fig. No. 34) | | | | (See Fig. No. 45) | |
| 23 | 97-580110 | Valve - Landing Gear Selector | | | 73-33102-1 | Strut - Landing Gear Shock R.H. | |
| | | (See Fig. No. 35) | | | | (See Fig. No. 45) | |
| | 97-58011 | Valve - Landing Gear Selector | | 49 | 97-580280 | Strut - Hydraulic Landing Gear | |
| | | Without Fittings | | | | Down Lock Complete L.H. | 1 |
| | | (See Fig. No. 35) | | | 97-580281 | Strut - Hydraulic Landing Gear | |
| 24 | 73-33318 | Bracket - Rear Fairing Door | | | | Down Lock Complete R.H. | 1 |
| | | Hinge L.H. | 1 | | 97-58028 | Strut - Hydraulic Landing Gear | |
| | 73-33318-1 | Bracket - Rear Fairing Door | | | | Down Lock Complete | |
| | | Hinge R.H. | 1 | | | Without Fittings | 2 |
| 25 | 73-33552 | Tube - Landing Gear Lock Operating | | 50 | 73-33364-2 | Bracket - Landing Gear Door Lock | |
| | | Torque Complete | 1 | | | Stop L.H. | 1 |
| | 73-33516-2 | Tube - Landing Gear Lock | | | 73-33364-3 | Bracket - Landing Gear Door Lock | |
| | | Torque L.H. | 1 | | | Stop R.H. | 1 |
| | 73-33516-3 | Tube - Landing Gear Lock | | 51 | 83-58304 | End - Landing Gear Operating | |
| | | Torque R.H. | 1 | | | Strut | 2 |
| 26 | 99-33563 | Spring - Landing Gear Retracted | | 52 | 73-58027 | Strut - Hydraulic Landing Gear | |
| | | Position Latching Hook | 2 | | | Operating (See Fig. No. 31) | |
| 27 | 73-33534 | Rod - Lock Mechanism L.H. | 1 | 53 | 73-33354 | Spring - Door Lock | 2 |
| 28 | 73-33544 | Bellcrank - Lock Mechanism L.H. | 1 | 54 | 73-33359 | Tube - Landing Gear Fairing Door | |
| 29 | 97-525105 | Rod - Selector Valve Control L.H. | 1 | | | Lock | 2 |
| 30 | 83-33542 | Handle - Landing Gear Cockpit | | | | Lock | |
| | | Control | 1 | 55 | 99-335113 | Bracket - Landing Gear Door | |
| 31 | 73-33531 | Rod - Landing Gear Hook Operating | 2 | | | Timing Wing Sta. 13-9/16 | |
| | | | | | | Pulley | 2 |





LANDING GEAR HOUSING AND STRUT

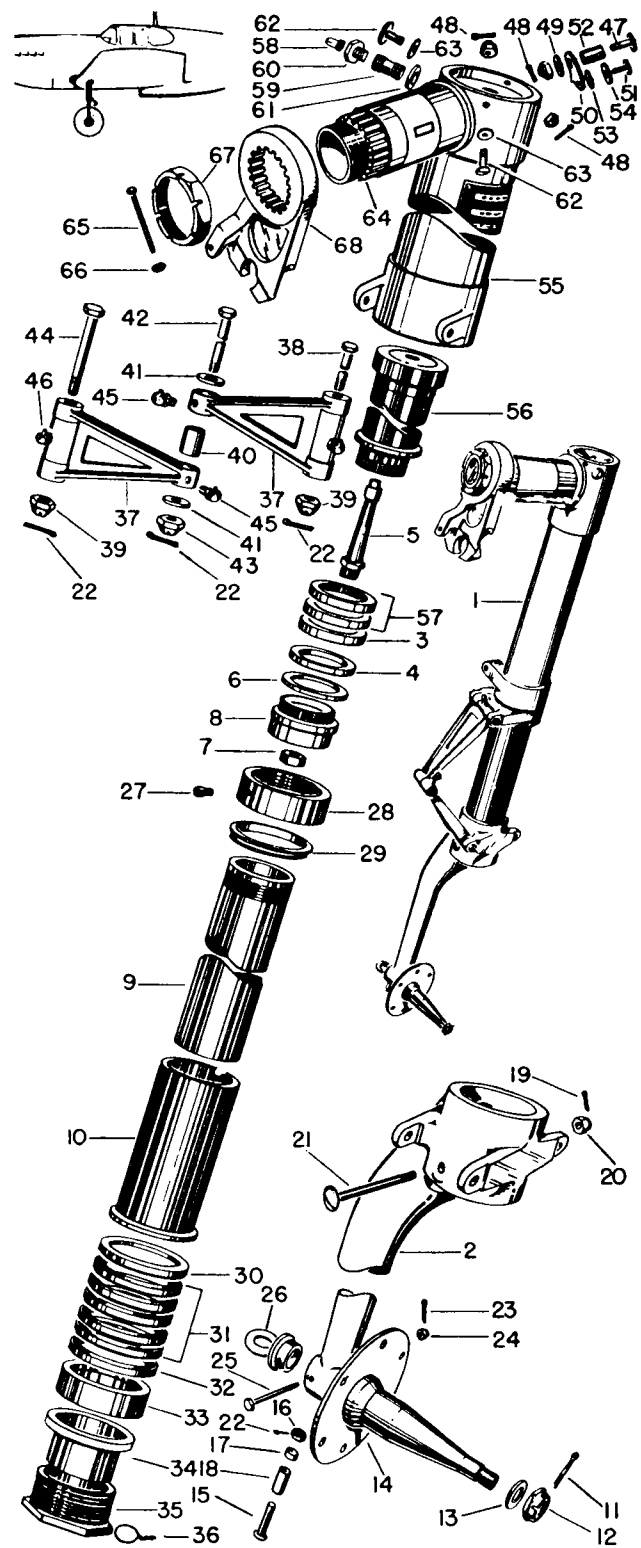
FIGURE No. 44

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|---------------|---|----------|---------|-------------|--|----------|
| 1 | 91-33106-10 | Support - Landing Gear Pivot L.H. (See Fig. No.96) | | | AN320-3 | Nut | 2 |
| | 91-33106-11 | Support - Landing Gear Pivot R.H. (See Fig. No.96) | | 20 | AN380-2-2 | Pin | 2 |
| 2 | 73-33102-10 | Strut - Main Landing Shock L.H. (Bendix 65514, See Fig. No.45) | | 21 | 73-33561 | Arm - Safety Lock | 1 |
| | 73-33102-11 | Strut - Main Landing Shock R.H. (Bendix 65515, See Fig. No.45) | | 22 | 83-335103 | Clamp - Landing Gear Strut Lower | 1 |
| 3 | 73-33302 | Fairing - Landing Gear L.H. | 1 | | AN3-16A | Bolt | 1 |
| | 73-33302-1 | Fairing - Landing Gear R.H. | 1 | | 83-335104 | Clamp - Strut Lower Flexible Control Swivel | 1 |
| 4 | 73-33312 | Link - Fairing Attaching Rear | 2 | | B1009-3-16 | Bushing | 1 |
| 5 | 73-33313 | Link - Fairing Attaching Front | 2 | | AN960-10L | Washer | 1 |
| 6 | AN5-26 | Bolt | 2 | | AN320-3 | Nut | 1 |
| | AN5-27 | Bolt | 2 | | AC365-1032 | Nut | 1 |
| 7 | B985-40-32-64 | Washer | 2 | 23 | AN502-10-8 | Screw | 1 |
| 8 | AN380C-4-4 | Pin | 4 | | AN380-2-2 | Pin | 1 |
| 9 | 73-33310-2 | Spacer - Fairing Attaching Link | 2 | | AC995-C40-4 | Wire | 1 |
| | 73-33310-3 | Spacer - Fairing Attaching Link | 2 | | 73-33455 | Clamp - Hydraulic Brake Line Supporting | 1 |
| 10 | B985-21-28-64 | Washer | 8 | 24 | AC755-5 | Clip | 1 |
| 11 | 73-33309 | Eyebolt - Fairing Attaching Link | 4 | | B1070-D8-16 | Spacer | 1 |
| 12 | B1009-R6-56 | Spacer | 2 | | B1287-8-16 | Screw | 1 |
| | B1009-R6-54 | Spacer | 2 | 25 | AC365-832 | Nut | 1 |
| 13 | AN6-22A | Bolt | 4 | | AN4-10A | Bolt | 2 |
| 14 | AC940-616 | Washer | 4 | 26 | AC940-416 | Washer | 24 |
| | AN960-816 | Washer | 4 | 27 | B1009-R4-20 | Bushing | 2 |
| 15 | AN6-43 | Bolt | 2 | 28 | AC365-428 | Nut | 2 |
| 16 | B1009-R6-124 | Spacer | 16 | 29 | AN6-11A | Bolt | 10 |
| 17 | AN310-6 | Nut | 2 | 30 | AC365-624 | Nut | 10 |
| 18 | AN380-3-3 | Pin | 2 | 31 | AN310-5 | Nut | 4 |
| 19 | 73-33549 | Control - Cable Safety Lock | 1 | 32 | 73-33308 | Bushing - Fairing Attaching Link | 4 |
| | AN23-10 | Bolt | 1 | 33 | 95-0747 | Wheel - 27" Smooth Contour (G.F.E.) | 2 |
| | AN23-11 | Bolt | 1 | 34 | 17-354 | Tire - 27" Smooth Contour (G.F.E.) | 2 |
| | | | | | 27-210 | Tube - 27" Smooth Contour Regular (G.F.E.) | 2 |
| | | | | 35 | 95-0995 | Brake - 27" (7.5" x 11) (G.F.E.) | 2 |
| | | | | | 73-33307 | Bushing - Fairing Hinge Bracket Attaching | 4 |

MAIN LANDING GEAR STRUT

FIGURE No. 45

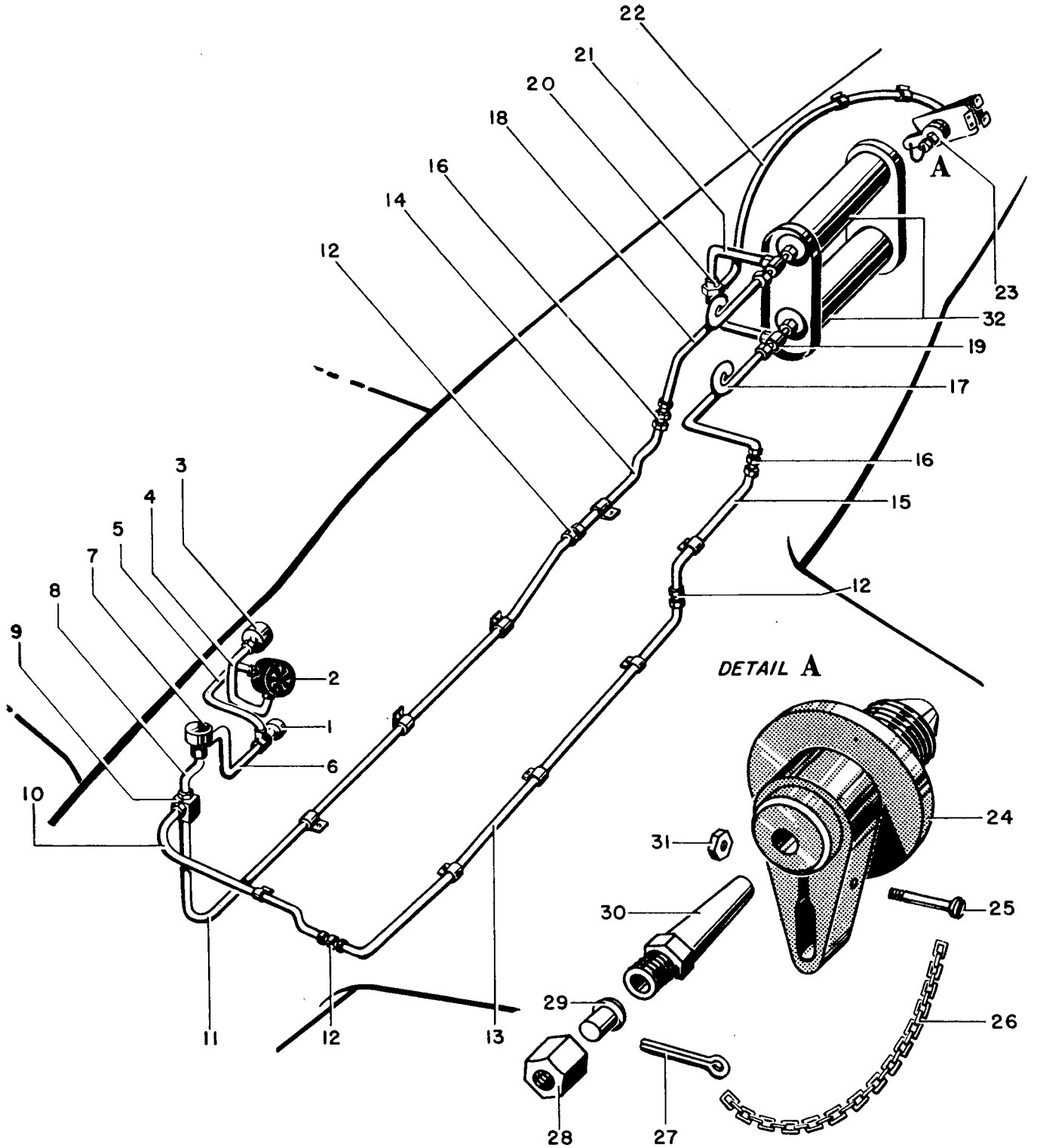
| REF NO. | PART NUMBER | TITLE | NO. REQ. |
|--|-----------------|---|----------|
| Note: All parts listed with the exception of N.A.A., AN AC and B Standard numbers, are part numbers of Bendix Product Div., South Bend, Indiana. Both part numbers are shown where possible. | | | |
| 1 | 73-33102-11 | Strut Assem. - Landing Gear Shock Complete L.H. (67270) | 1 |
| | 73-33102-12 | Strut Assem. - Landing Gear Shock Complete R.H. (67271) | 1 |
| 2 | 67276 | Fork & Axle Assembly L.H. | 1 |
| | 67277 | Fork & Axle Assembly R.H. | 1 |
| 3 | 67135 | Nut - Lock | 2 |
| 4 | 65134 | Ring - Seal Compressing | 2 |
| 5 | 65658 | Pin - Metering | 2 |
| 6 | 65133 | Ring - Seal | 2 |
| 7 | AC365-624 | Nut | 2 |
| 8 | 65132 | Diaphragm - Inner Cylinder | 2 |
| 9 | 65657 | Cylinder - Inner | 2 |
| 10 | 65660 | Bearing - Spacer Assembly | 2 |
| 11 | AN380-4-8 | Pin | 2 |
| 12 | AN7502-1 | Nut | 2 |
| 13 | AN7503-1 | Washer | 2 |
| 14 | 34A15-2 | Collar - Landing Gear Axle | 2 |
| 15 | 65684 | Stud | 2 |
| 16 | AN320-8 | Nut | 2 |
| 17 | 65669 | Spacer | 2 |
| 18 | 65646 | Spacer | 2 |
| 19 | AN380-4-4 | Pin | 2 |
| 20 | AN320-10 | Nut | 2 |
| 21 | AN30-72 | Bolt | 2 |
| 22 | AN380-3-3 | Pin | 8 |
| 23 | AN380-2-2 | Pin | 2 |
| 24 | AN310-4 | Nut | 2 |
| 25 | AN4-30 | Bolt | 2 |
| 26 | 73-33119 | Ring - Towing L.H. (615916) | 1 |
| | 73-33119-1 | Ring - Towing R.H. (615917) | 1 |
| 27 | 65323 | Screw - Lock | 2 |
| 28 | 65659 | Bearing - Upper | 2 |
| 29 | 65670 | Valve - Snubber | 2 |
| 30 | AN6227-42 | Adapter - "V" Ring Male | 2 |
| 31 | AN6225-42 | Packing - "V" Ring | 6 |
| | X43B2237-12-308 | Packing | 4 |
| 32 | AN6228-42 | Adapter - "V" Ring Female | 2 |
| 33 | 66734 | Spacer - Packing | 2 |
| 34 | 53872 | Bearing | 2 |
| 35 | 53873 | Nut | 2 |
| 36 | 55458 | Wire | 2 |
| 37 | 54256 | Torsion Link & Bushing Assembly | 4 |
| 38 | AN8-47 | Bolt | 3 |
| 39 | AN310-8 | Nut | 4 |
| 40 | 54252 | Spacer | 2 |
| 41 | 54253 | Washer | 4 |
| 42 | AN7-25 | Bolt | 2 |
| 43 | AN310-7 | Nut | 2 |
| 44 | AN8-51 | Bolt | 1 |
| 45 | AC286-4 | Lubricator | 4 |
| 46 | AC286-3 | Lubricator | 4 |
| 47 | AN28-28 | Bolt | 2 |
| 48 | AN380-3-4 | Pin | 6 |
| 49 | 65813 | Washer (Special) | 2 |
| 50 | 99-33562 | Clip - Indicator (67334) | 2 |
| 51 | AN6-5A | Bolt - D.H. | 2 |
| 52 | B1070-816-8 | Spacer | 2 |
| 53 | B1070-616-8 | Spacer | 2 |
| 54 | AN935-616 | Washer | 2 |
| 55 | 65638 | Outer Cylinder & Side Brace Fitting Assembly L.H. | 1 |
| | 65639 | Outer Cylinder & Side Brace Fitting Assembly R.H. | 1 |
| 56 | 65647 | Piston Tube Diaphragm & Orifice Assem. | 2 |
| 57 | 65135 | Nut - Lock | 4 |
| 58 | AN813-1 | Cap | 2 |
| 59 | AN809-1 | Core | 2 |
| 60 | AN812-1 | Plug | 2 |
| 61 | AN901-5C | Gasket | 2 |
| 62 | AN28-18 | Bolt | 4 |
| 63 | AN960-816 | Washer | 4 |
| 64 | 73-33112 | Shaft - Pivot | 2 |
| 65 | AN3-41A | Bolt | 2 |
| 66 | AC365-1032 | Nut | 2 |
| 67 | 65789 | Nut | 2 |
| 68 | 73-33115 | Arm - Landing Gear Torque L.H.(65800) | 1 |
| | 73-33115-1 | Arm - Landing Gear Torque R.H.(65801) | 1 |



OXYGEN SYSTEM

FIGURE No. 46

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|------------------------------------|----------|---------|--------------|--|----------|
| 1 | Spec.27368 | Gage - Type K-1 Pressure (G.F.E.) | 1 | 17 | 99-73326 | Line - Upper Bottle To Check Valve | 1 |
| | AC811RT-5D | Tee | 1 | 18 | 99-73327 | Line - Lower Bottle To Check Valve | 1 |
| 2 | Spec.40370 | Regulator - Type A-12 (G.F.E.) | 1 | 19 | Spec.40325-B | Valve - Type 1 Style "B" Check (G.F.E.) | 2 |
| | AC811CT-5D | Elbow - 45° | 2 | | | | |
| 3 | Spec.40427 | Indicator - Type A-3 Flow (G.F.E.) | 1 | 20 | AC811JT-5D | Tee | 1 |
| | AC811CT-5D | Elbow - 90° | 1 | 21 | 99-73315 | Line - Tee To Upper And Lower Bottles | 1 |
| 4 | 99-73332 | Line - Regulator To Flow Indicator | 1 | | | | |
| 5 | 99-73331 | Line - Regulator To Pressure Gage | 1 | 22 | 99-73313 | Line - Filler Valve To Tee | 1 |
| 6 | 99-73330 | Line - Pressure Gage To Signal | 1 | 23 | 97-73321 | Valve - Oxygen Recharging Adapter And Filler | 1 |
| 7 | Spec.32376 | Signal - Type G-1 (G.F.E.) | 1 | | | | |
| | AC811RT-5D | Tee | 1 | 24 | Spec.40326-A | Valve - Type II Filler (G.F.E.) | 1 |
| 8 | 99-73328 | Line - Check Valve To Signal | 1 | 25 | | Bolt - Furnished With Valve (G.F.E.) | 1 |
| 9 | Spec.40325-B | Valve - Type 1 Style "D" (G.F.E.) | 1 | 26 | | Chain - Furnished With Valve (G.F.E.) | 1 |
| 10 | 99-73336 | Line - Upper Bottle To Check Valve | 1 | | | | |
| 11 | 99-73338 | Line - Lower Bottle To Check Valve | 1 | 27 | AN380-2-2 | Pin | 1 |
| 12 | AC811HT-5D | Union | 3 | 28 | 91-73364 | Nut - Oxygen Equipment Line | 1 |
| 13 | 99-73335 | Line - Upper Bottle To Check Valve | 1 | 29 | | Plug - Furnished With Valve (G.F.E.) | 1 |
| 14 | 99-73337 | Line - Lower Bottle To Check Valve | 1 | 30 | 426950 | Adapter (G.F.E.) | 1 |
| 15 | 99-73334 | Line - Upper Bottle To Check Valve | 1 | 31 | | Nut - Furnished With Valve (G.F.E.) | 1 |
| 16 | 3115-1HT-5 | Union (Parker) | 2 | 32 | Spec. | | |
| | 11-1039-1-4 | Locknut (Parker) | 4 | | 94-40355 | Cylinder - Type D-2 Oxygen (G.F.E.) | 2 |



OXYGEN SYSTEM

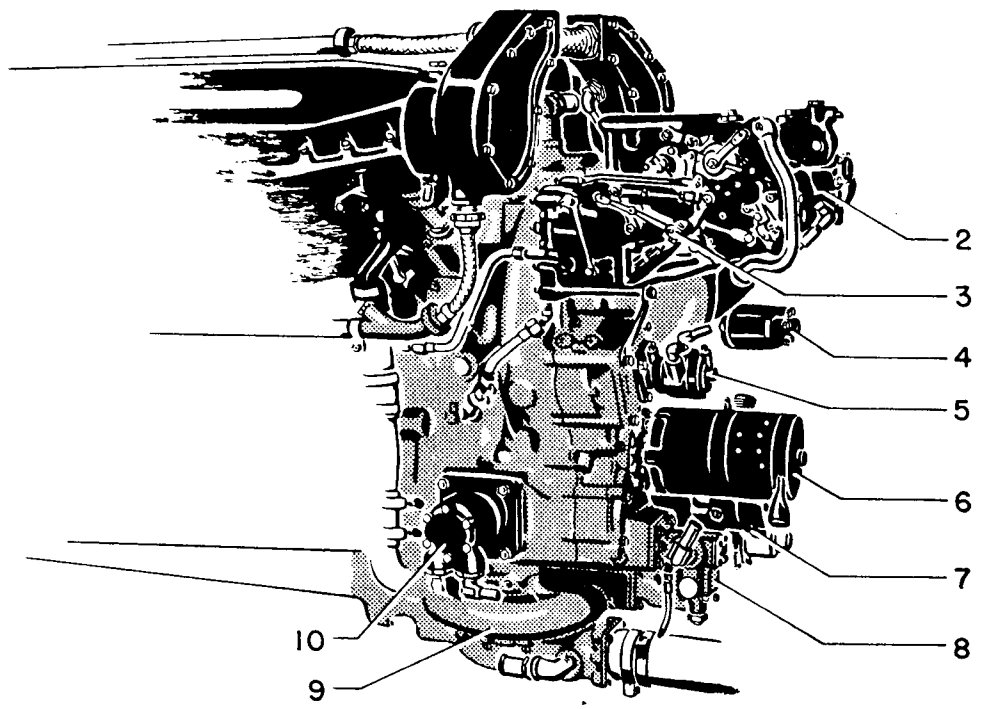
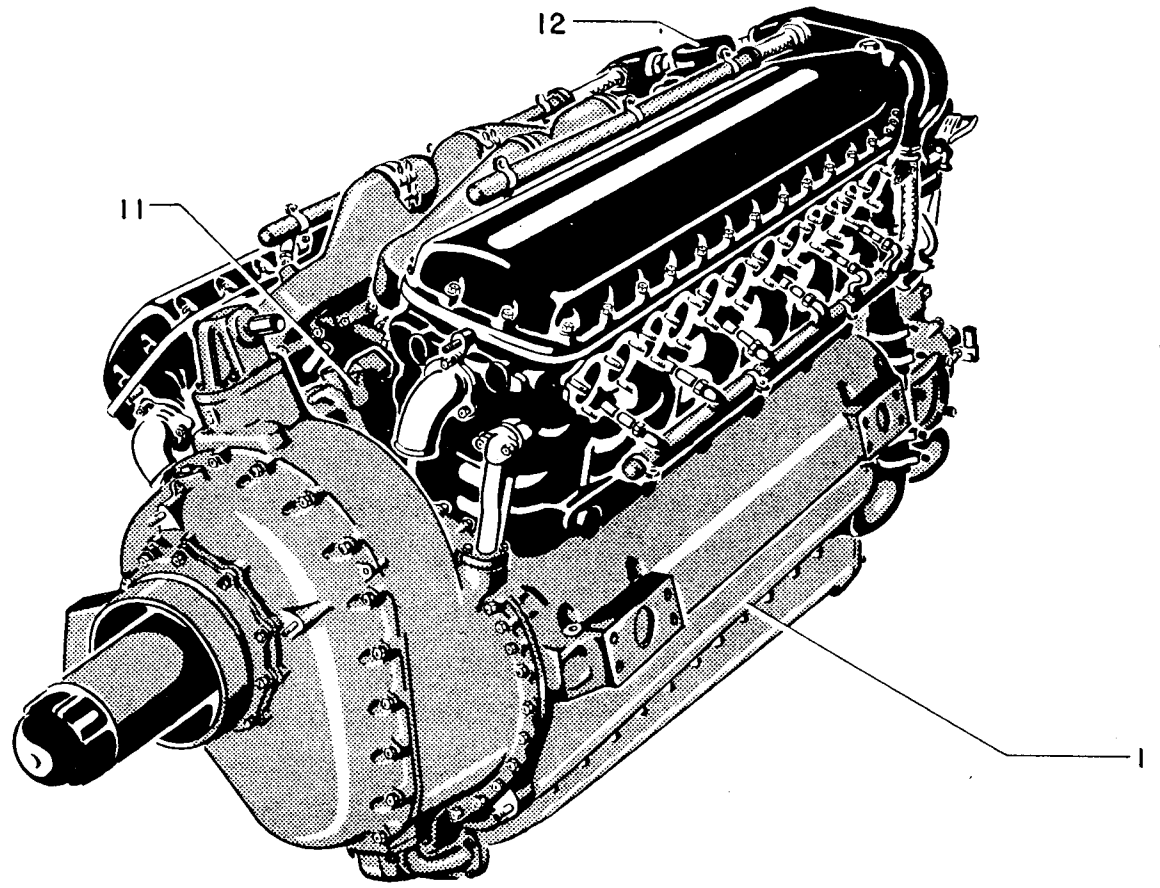
FIGURE No. 46

POWER PLANT

FIGURE No. 47

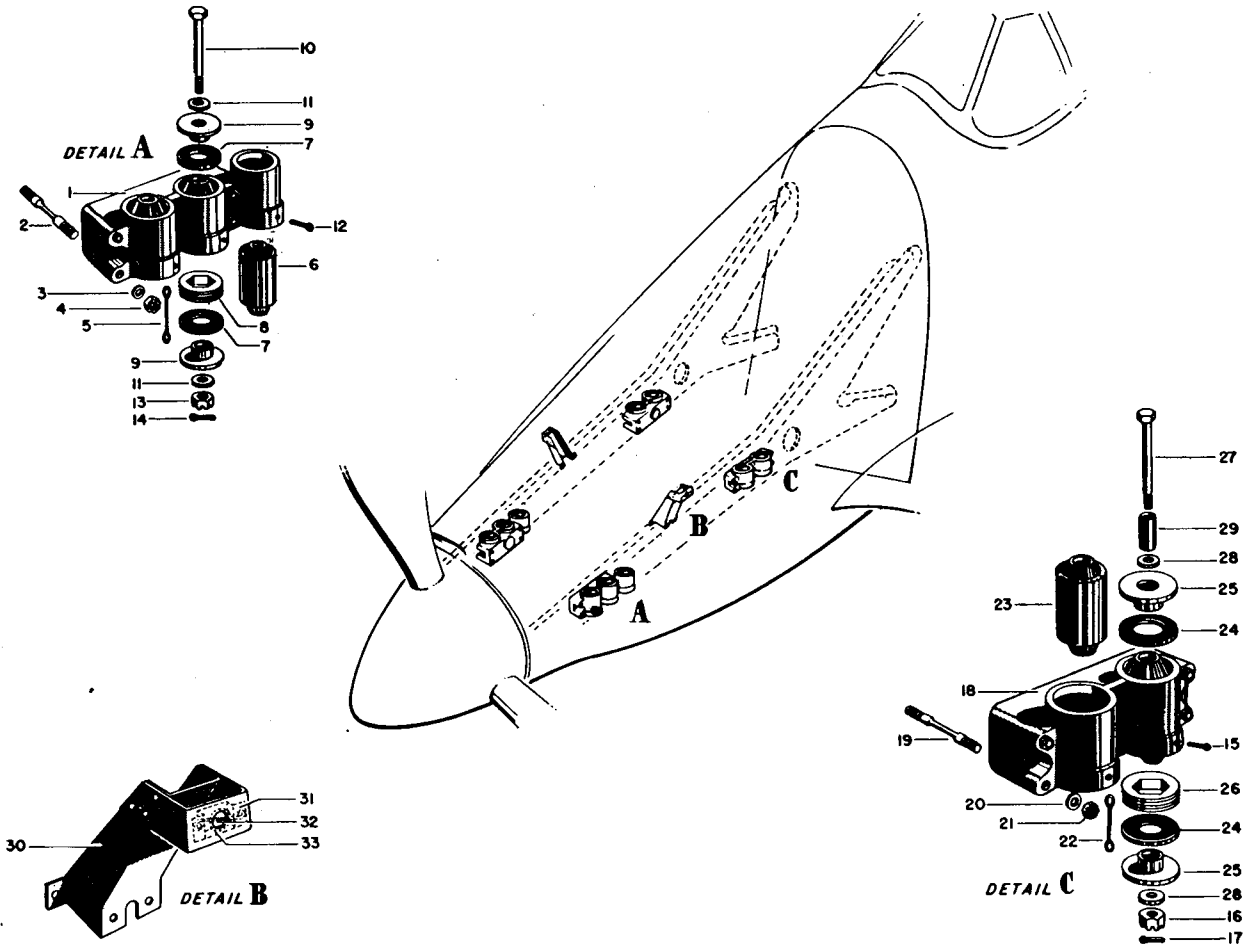
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|--------------|--|----------|
| 1 | 21509 | Engine - (Allison) Model V-1710-81* | 1 | 7 | 104344-915-4 | Starter - Type G-6*(Eclipse) | 1 |
| 2 | 395011-2 | Carburetor (Stromberg) Type PD12K6* | 1 | 8 | TFD100 | Pump - Fuel*(Thompson) | 1 |
| 3 | 42685C | Regulator - Manifold Pressure* (Delco Remy) Type AAFA2 | 1 | 9 | | Coolant Pump* | 1 |
| 4 | 395232-A | Adapter - Carburetor Spray Nozzle* (Stromberg) | 1 | 10 | 1P-349-N | Pump - Hydraulic (Pesco) | 1 |
| 5 | 3P194-F | Pump - Vacuum (Pesco) Type B-11* | 1 | 11 | 1000008-1 | Governor*(Curtiss) | 1 |
| 6 | 24250 | Generator - Type O-1*(Leece Neville Co., Cleveland, Ohio.) | 1 | 12 | 10-25225-1 | Magneto - (Bendix-Scintilla) Type DFLN-6* | 1 |

* Denotes Government Furnished Equipment.



POWER PLANT

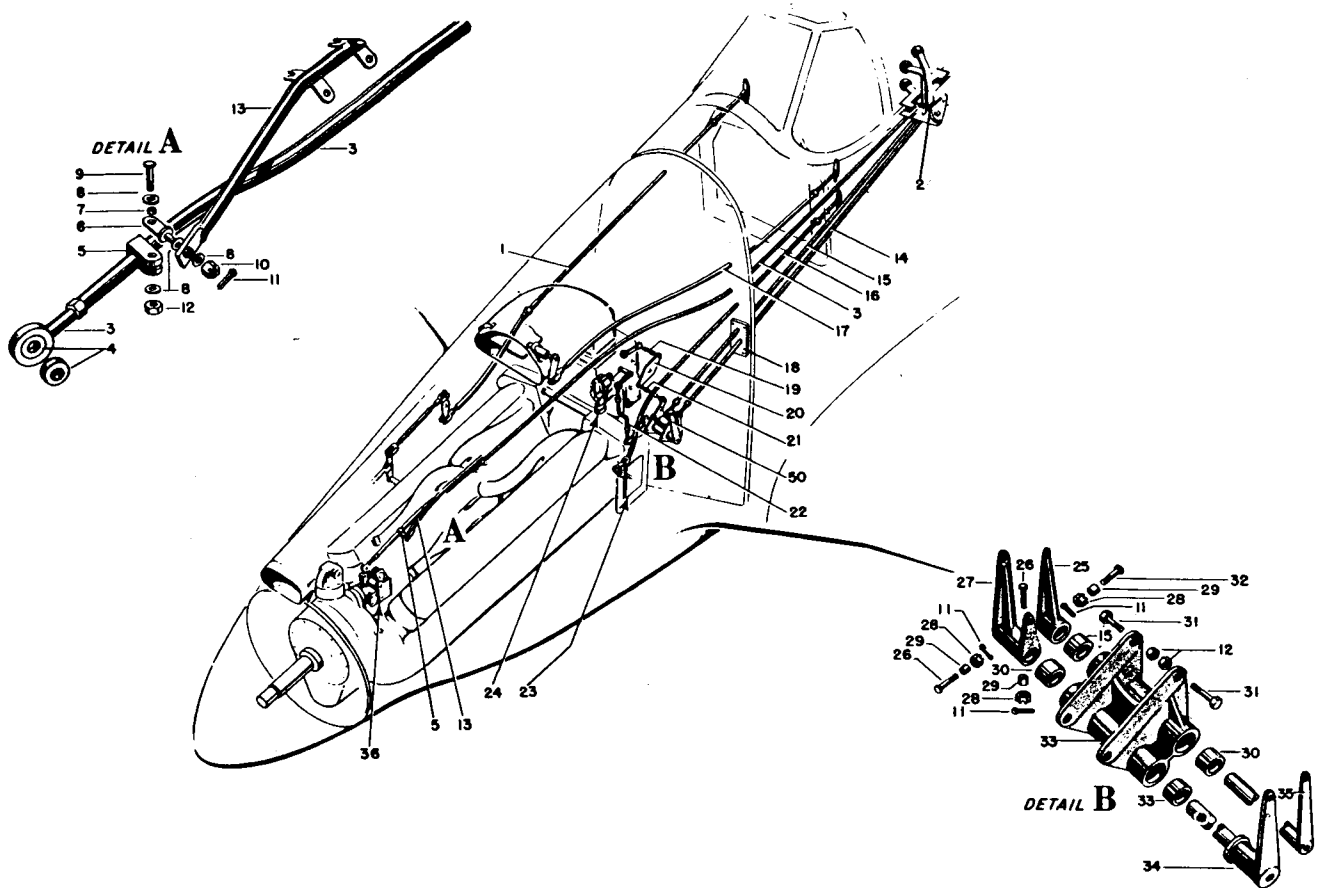
FIGURE No. 47
RESTRICTED



ENGINE MOUNT SHOCK SUPPORTS

FIGURE No. 48

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|-------------|---|----------|
| 1 | 73-31907 | Housing - Engine Mount Shock Support Front L.H. | 1 | 18 | 73-31906 | Housing - Engine Mount Shock Support Rear | 2 |
| | 73-31907-1 | Housing - Engine Mount Shock Support Front R.H. | 1 | 19 | 73-31936 | Stud - Engine Mount Shock Support Aero Type Housing | 8 |
| 2 | 73-31936 | Stud - Engine Mount Shock Support Aero Type Housing | 8 | 20 | AN960-616 | Washer | 8 |
| 3 | AN960-616 | Washer | 8 | 21 | AN310-6 | Nut | 8 |
| 4 | AN310-6 | Nut | 8 | 22 | 051 | Wire - Brass Safety Wire | 4 |
| 5 | 051 | Wire - Brass Safety Wire | 4 | 23 | J1269-1 | Bushing - Lord | 2 |
| 6 | J1268-1 | Bushing - Lord | 3 | 24 | J1269-3 | Washer - Snubbing | 8 |
| 7 | J1268-3 | Washer - Snubbing | 12 | 25 | J1269-2 | End Plate | 8 |
| 8 | 73-31908 | Nut - Engine Mount Shock Support Lock | 3 | 26 | 73-31908 | Nut - Engine Mount Shock Support Lock | 2 |
| 9 | J1268-2 | End Plate | 12 | 27 | AN7-72 | Bolt | 4 |
| 10 | AN7-53 | Bolt | 6 | 28 | AN960-716 | Washer | 8 |
| 11 | AN960-716 | Washer | 12 | 29 | 73-31940 | Spacer - Engine Mount Shock Support Bushing Front Bolt | 4 |
| 12 | AN380-3-4 | Pin | 6 | 30 | 73-310102 | Support Assem. - Engine Removable Cowling Lower Former L.H. | 1 |
| 13 | AN310-7 | Pin | 6 | | 73-310102-1 | Support Assem. - Engine Removable Cowling Lower Former R.H. | 1 |
| 14 | AN380-3-3 | Pin | 8 | | | | |
| 15 | AN380-3-4 | Pin | 4 | 31 | B1340-3 | Support | 2 |
| 16 | AN310-7 | Nut | 4 | 32 | 35B1406-3 | Dzus Spring | 2 |
| 17 | AN380-3-3 | Pin | 12 | 33 | AN960-4 | Washer | 4 |

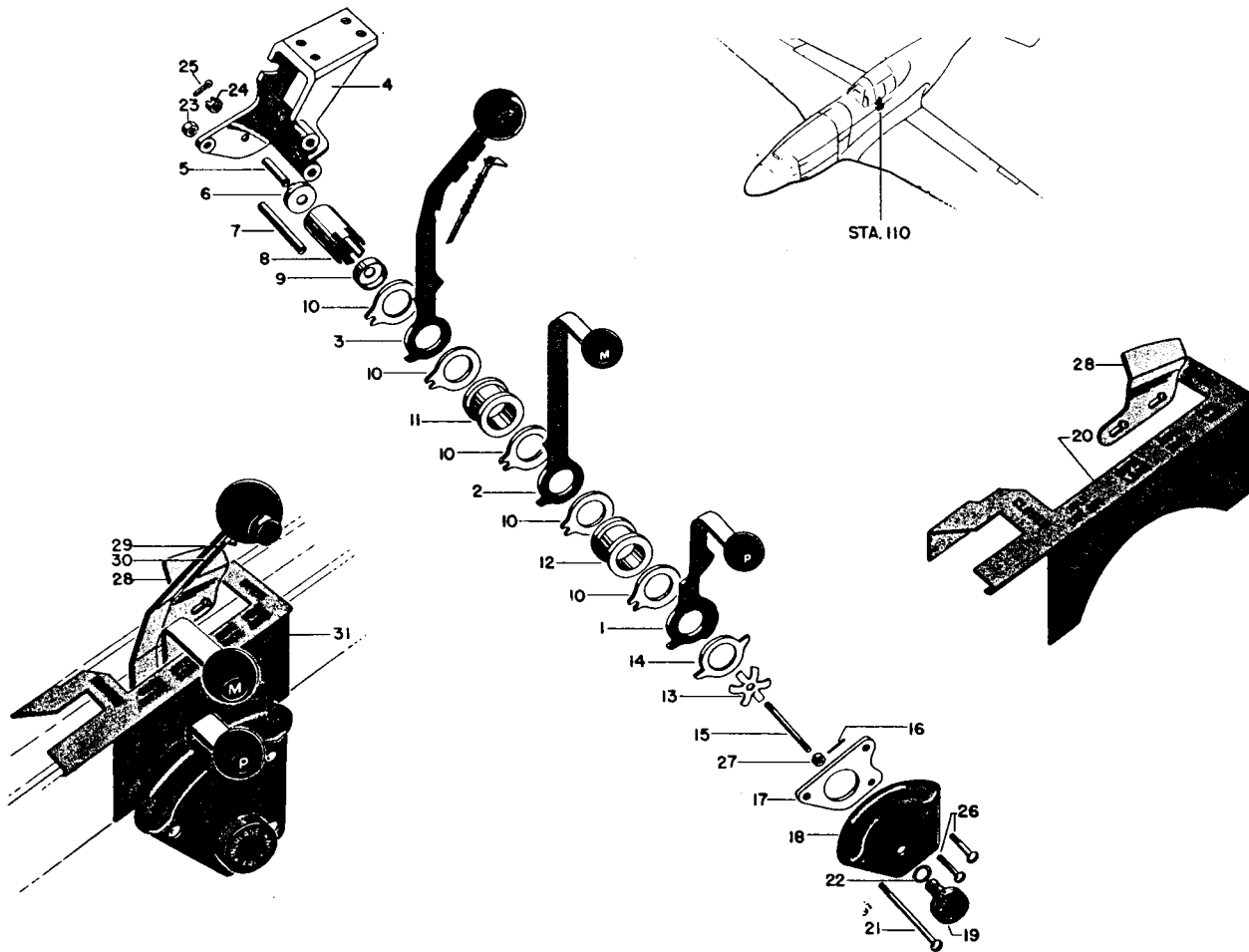


ENGINE CONTROLS

FIGURE No. 49

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|---------------|---|----------|---------|-------------|---|----------|
| 1 | 99-42183-2 | Control-Air Scoop Filter | 1 | | | | |
| 2 | 97-43005 | Quadrant - Engine Control (See Fig. No.50) | 1 | 19 | B1287-8-14 | Screw - Round Head Cross Slot | 4 |
| 3 | FG125x95-3/8- | Arens Control (2-1/2 Travel) | 1 | | AC365-832 | Nut | 4 |
| 4 | RE3F4 | Bearing (Pafnir Or Equiv.) | 1 | 20 | 99-43059 | Rod - Carburetor Mixture Control Idler To Carburetor | 1 |
| 5 | 73-44033 | Clamp - Propeller Control Front Rod | 1 | 21 | 99-43057 | Bellcrank - Carburetor Mixture Control Idler | 1 |
| 6 | 73-44034 | Eyebolt - Propeller Control Rod Clamp | 1 | 22 | 99-43058 | Rod - Carburetor Mixture Control Jackshaft To Idler | 1 |
| 7 | 73-44035 | Spacer - Propeller Control Rod Clamp | 1 | 22 | 91-43820 | Rod - Engine Control Jackshaft To Manifold Pressure Restrictor | 1 |
| 8 | AN960-10 | Washer | 3 | *23 | 99-42185-8 | Carburetor Hot Air Scoop Door Automatic Manifold Pressure Regulator (Allison) | 1 |
| 9 | AN3-10A | Bolt | 1 | 24 | 73-43023 | Arm - Inboard Carburetor Mixture Control | 1 |
| 10 | AN310-3 | Nut | 1 | 25 | AC386-1-7 | Pin | 2 |
| 11 | AN380-2-2 | Pin | 4 | 26 | 91-43022 | Bellcrank - Inboard Throttle Control | 1 |
| 12 | AN365-1032 | Nut | 5 | 27 | AN320-3 | Nut | 3 |
| 13 | 73-44015 | Bracket - Propeller Control Rod Front | 1 | 28 | AN975-3 | Washer | 3 |
| 14 | 73-43817 | Rod - Engine Mixture Quadrant To Jackshaft Control | 1 | 29 | BH-812F | Bearing (Torrington Or Equiv.) | 4 |
| 15 | 91-43816 | Rod - Engine Throttle Quadrant To Jackshaft Control | 1 | 30 | AN3-5A | Bolt | 3 |
| *16 | 99-42196 | Control - Carburetor Hot Air Scoop Operating | 1 | 31 | AC386-1-6 | Pin | 1 |
| 17 | 97-43051 | Control - Carburetor Air Scoop Cold Air Door (Shakespeare) | 1 | 32 | 73-43011 | Bracket - Engine Mixture Control Shaft | 1 |
| 18 | 73-43042-2 | Fairlead - Engine Throttle & Mixture Control Rod | 1 | 33 | 91-43018 | Shaft - Engine Throttle Control | 1 |
| | 73-43042-3 | Fairlead - Engine Throttle And Mixture Control Rod | 1 | 34 | 73-43017 | Shaft - Engine Mixture Control | 1 |
| | | | 1 | 35 | 100008 | Governor (Curtiss) | 1 |
| | | | | 36 | | | |

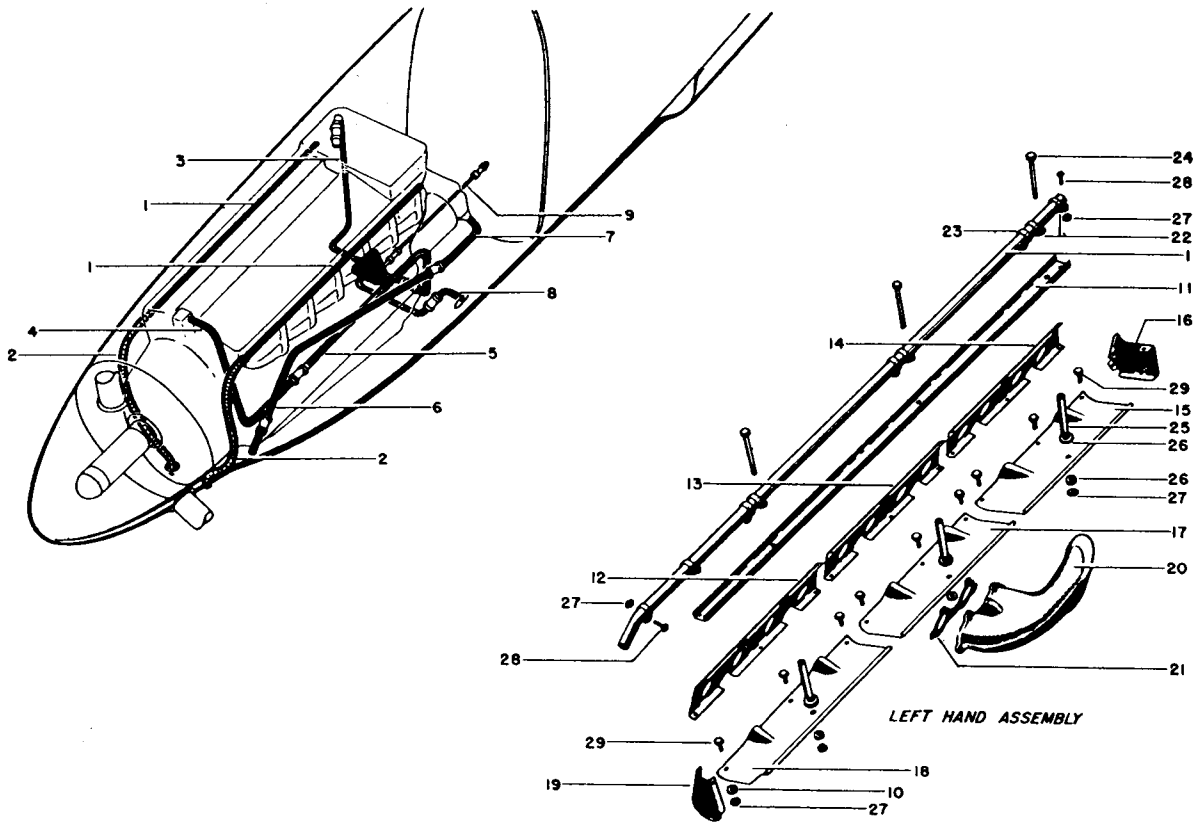
Note: * Used On Airplane Block Designation P-51A-10-NA.



ENGINE CONTROL QUADRANT

FIGURE No. 50

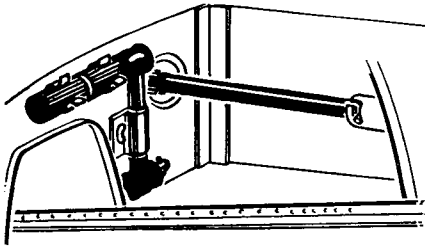
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|--------------|--|----------|
| 1 | 73-43031 | Lever Assem. - Propeller Pitch Control | 1 | 16 | 73-43036-3 | Rod - Engine Control Quadrant | 1 |
| 2 | 73-43029 | Lever Assem. - Carburetor Mixture Control | 1 | 17 | 73-43032 | Plate - Engine Control Quadrant | 1 |
| 3 | 97-43044-10 | Lever Assem. - Engine Throttle Control | 1 | 18 | 97-43030 | Plate - Engine Control Quadrant Propeller Pitch Name | 1 |
| 4 | 73-43026 | Bracket Assem. - Engine Control Quadrant | 1 | 19 | 73-43034 | Knob - Engine Control Quadrant Friction Adjusting | 1 |
| 5 | 73-43038 | Spacer - Engine Control Quadrant | 1 | 20 | 73-43027 | Name Plate - Engine Control Quadrant Throttle Name | 1 |
| 6 | 73-43035 | Shield - Engine Control Quadrant | 1 | 21 | B1286-10-48 | Screw | 1 |
| 7 | 73-43039 | Spacer - Engine Control Lever Stop Bolt | 1 | 22 | AN996-8 | Ring Lock | 1 |
| 8 | 73-43033 | Cylinder - Engine Control Quadrant | 1 | 23 | AC365-1032 | Nut | 1 |
| 9 | 35A4544 | Shield | 1 | 24 | AN310-4 | Nut | 1 |
| 10 | 99-93020 | Disc - Engine Control Quadrant | 5 | 25 | AN380-2-3 | Cotter Pin | 1 |
| 11 | 0150807-2 | Spacer - Army Spec. | 1 | 26 | B1286-416-16 | Screw | 2 |
| 12 | 73-43037 | Spacer - Engine Control Quadrant Friction Disc | 1 | 27 | AN315-42 | Nut | 1 |
| 13 | 068707 | Spring - Army Spec. | 1 | 28 | 99-43052 | Stop - Control Quadrant Throttle Adjusting | 1 |
| 14 | 73-43024 | Disc - Engine Control Friction | 1 | 29 | 97-43067 | Lever - Control Quadrant Throttle Stop Release | 1 |
| 15 | 73-43030-2 | Bolt - Engine Control Quadrant | 1 | 30 | 97-43068 | Spring - Control Quadrant Throttle Stop | 1 |
| | | | | 31 | 97-43005 | Quadrant - Engine Control | 1 |



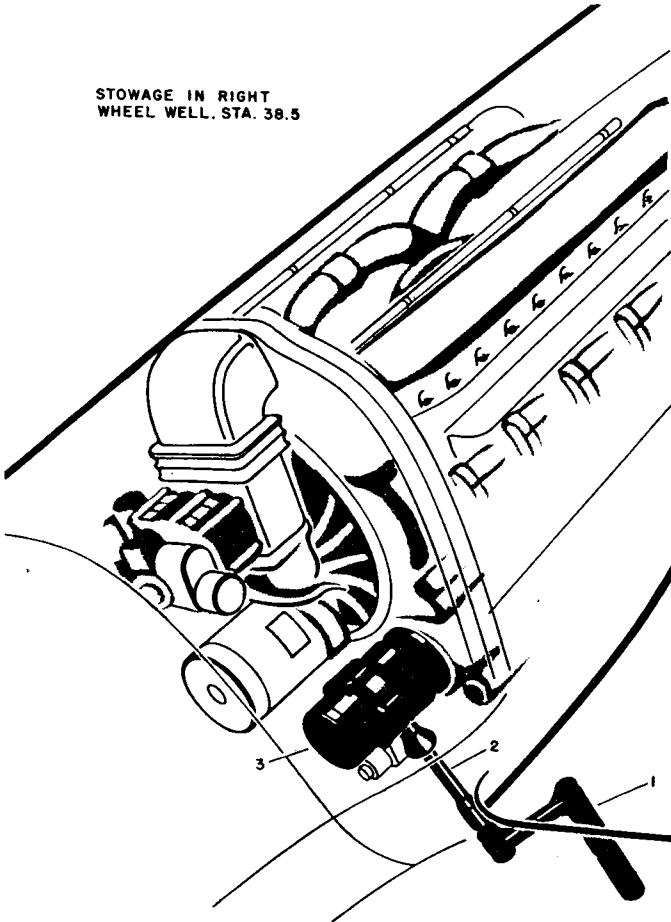
ENGINE ACCESSORIES

FIGURE No. 51

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|-------------|---|----------|
| 1 | 83-53378 | Tube - Heat & Vent System Windshield Defroster Exhaust Shroud Blast | 2 | 14 | 73-42030 | Plate Assem. - Engine Exhaust Rear Backing | 2 |
| 2 | 91-53336 | Hose - Heat & Vent System Windshield Defroster Exhaust Shroud Blast | 2 | 15 | 73-42022-2 | Sheet - Engine Exhaust Lower Rear Shroud | 2 |
| 3 | 83-42819 | Line - Oil Rear Breather To Drain Box | 1 | 16 | 73-42022-4 | Sheet - Engine Exhaust Lower Rear Shroud | 2 |
| 4 | 97-47826 | Line - Oil Front Breather To Drain Box 1st Section | 1 | 17 | 73-42021-2 | Sheet - Engine Exhaust Lower Intermediate Shroud | 2 |
| 5 | 97-47818 | Line - Oil Front Breather To Drain Box 2nd Section | 1 | 18 | 73-42020-2 | Sheet - Engine Exhaust Lower Forward Shroud | 2 |
| 6 | 99-42026 | Tube - Generator Blast Front | 1 | 19 | 73-42020-4 | Sheet - Engine Exhaust Lower Forward Shroud | 2 |
| 7 | 99-42027 | Tube Assem. - Generator Blast Rear | 1 | 20 | 91-42101 | Stack Assem. - Engine Exhaust Flame Dampener | 12 |
| 8 | 83-48845 | Line - Drain Box Air Outlet | 1 | 21 | | Gasket - Furnished With Engine | 12 |
| 9 | 97-48844 | Line - Drain Box Front Section | 1 | 22 | 73-42029 | Clamp - Upper Shroud Sheet Supporting | 12 |
| 10 | AN960-10 | Washer | 18 | 23 | 73-42028 | Clamp - Windshield Blast Tube Support | 6 |
| 11 | 73-42025 | Plate - Engine Exhaust Shroud Upper | 2 | 24 | AN3-31A | Bolt | 6 |
| 12 | 73-42023 | Plate Assem. - Engine Exhaust Forward Backing | 2 | 25 | B1070-10-84 | Spacer | 6 |
| 13 | 73-42024 | Plate Assem. - Engine Exhaust Intermediate Backing | 2 | 26 | AN970-3 | Washer | 6 |
| | | | | 27 | AC365-1032 | Nut | 30 |
| | | | | 28 | B1287-10-8 | Screw | 4 |
| | | | | 29 | AN3-3A | Bolt | 18 |



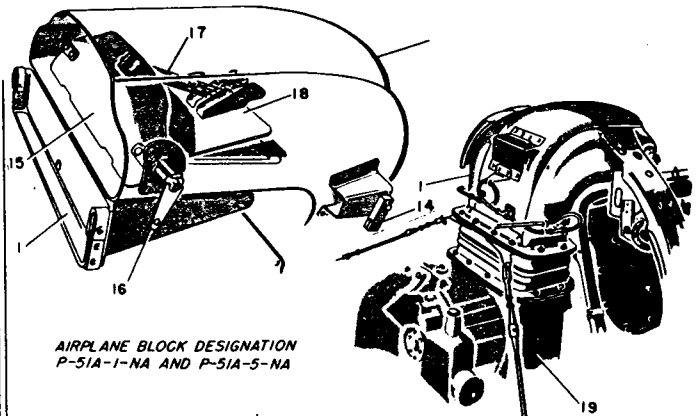
STOWAGE IN RIGHT
WHEEL WELL, STA. 38.5



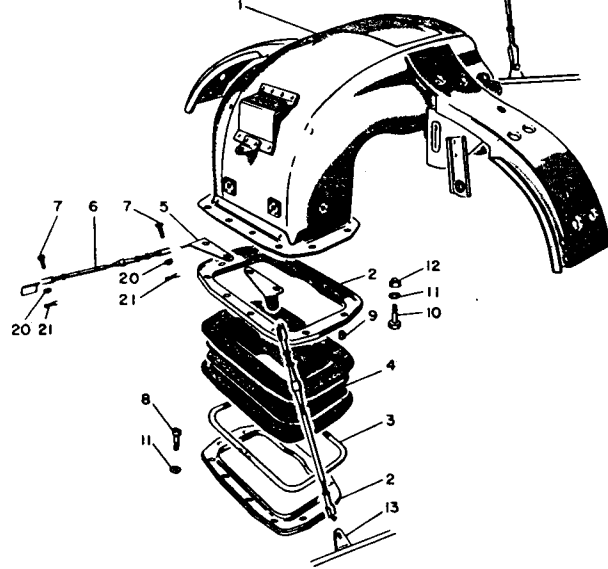
CRANK AND EXTENSION

FIGURE No. 52

| REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------------|--|----------|
| 1 | 95-32304 | Crank - Starter (G.F.E.) | 1 |
| 2 | D-57574-250R | Tube - Extension | 1 |
| 3 | Spec. 95-32304 | Starter - 24V. Type G-6 (G.F.E.) (See Fig. No. 9) | |



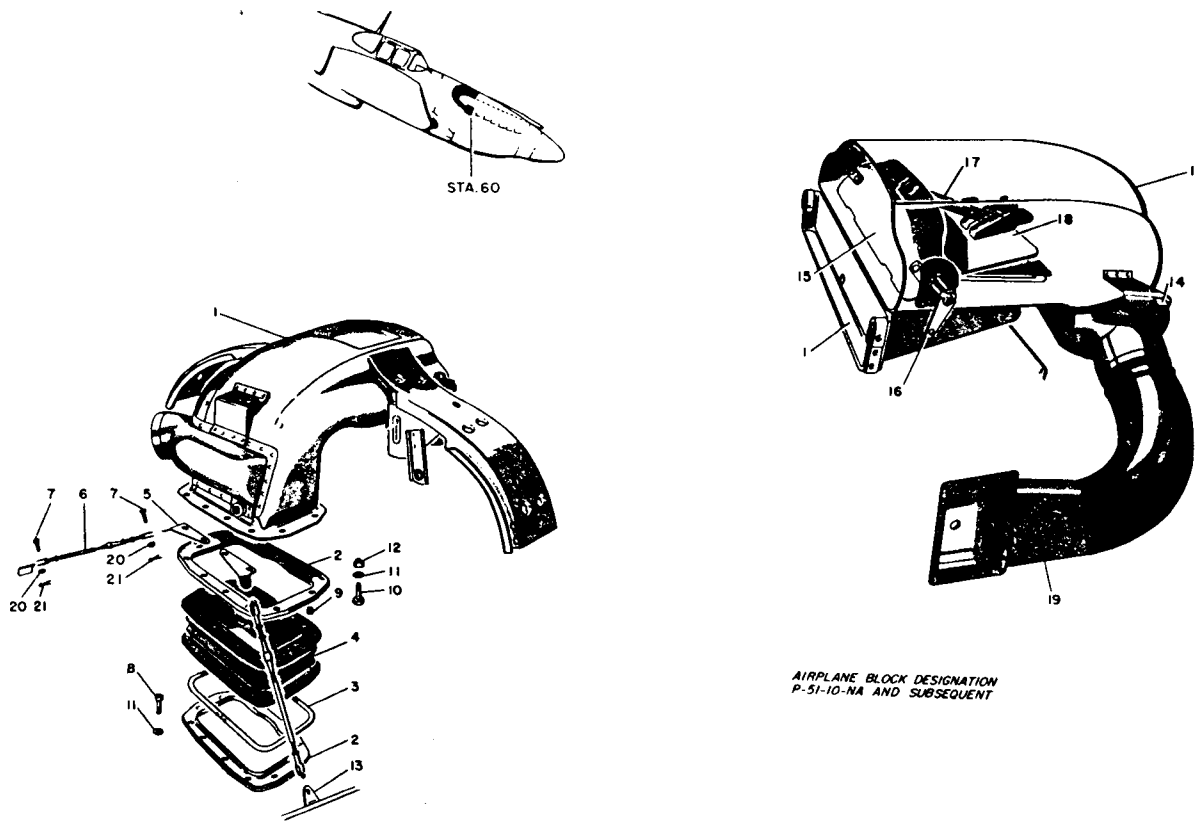
AIRPLANE BLOCK DESIGNATION
P-51A-1-NA AND P-51A-5-NA



CARBURETOR AIR SCOOP ELBOW

FIGURE No. 53

| REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---|--------------|---|----------|
| Note: All Parts Listed Used On Airplane Block Designations P-51A-1-NA And P-51A-5-NA. | | | |
| 1 | 91-42013-225 | Elbow - Carburetor Air Scoop Complete | 1 |
| 2 | 73-42015 | Ring - Air Scoop | 2 |
| 3 | 73-42018 | Tube - Air Intake Adaptor Support | 1 |
| 4 | 73-42011 | Joint - Air Duct Flexible | 1 |
| 5 | 97-42051-1 | Bracket - Air Scoop R.H. | 1 |
| | 97-42051 | Bracket - Air Scoop L.H. | 1 |
| 6 | 73-42053 | Rod - Air Scoop Elbow Brace | 2 |
| 7 | AN4-11A | Bolt | 4 |
| 8 | AC503-416-14 | Screw | 10 |
| 9 | 73-42017 | Spacer - Air Scoop Flexible Joint | 20 |
| 10 | AN4-10A | Bolt | 4 |
| | AN4-7A | Bolt | 6 |
| 11 | AN960-416 | Washer | 20 |
| 12 | AC365-428 | Nut | 6 |
| | AC365-1032 | Nut | 4 |
| 13 | 73-42052 | Clip - Air Scoop Elbow | 2 |
| 14 | 91-42110 | Clamp - Cold Air Door Control | 1 |
| 15 | 91-42107 | Door - Carburetor Cold Air | 1 |
| 16 | 91-42106 | Bellcrank - Cold Air Door L.H. | 1 |
| | 91-42111 | Shaft - Cold Air Door R.H. | 1 |
| 17 | 91-42104 | Link - Cold Air Door To Hot Air Door Connecting | 1 |
| 18 | 91-42081 | Door - Carburetor Air Scoop | 1 |
| 19 | PD12K7 | Carburetor - Bendix - Stromberg (G.F.E.) | 1 |
| 20 | AC365-428 | Nut | 4 |
| 21 | AN380-2-2 | Pin | 4 |



AIRPLANE BLOCK DESIGNATION
P-51-10-NA AND SUBSEQUENT

CARBURETOR AIR SCOOP ELBOW

FIGURE No. 54

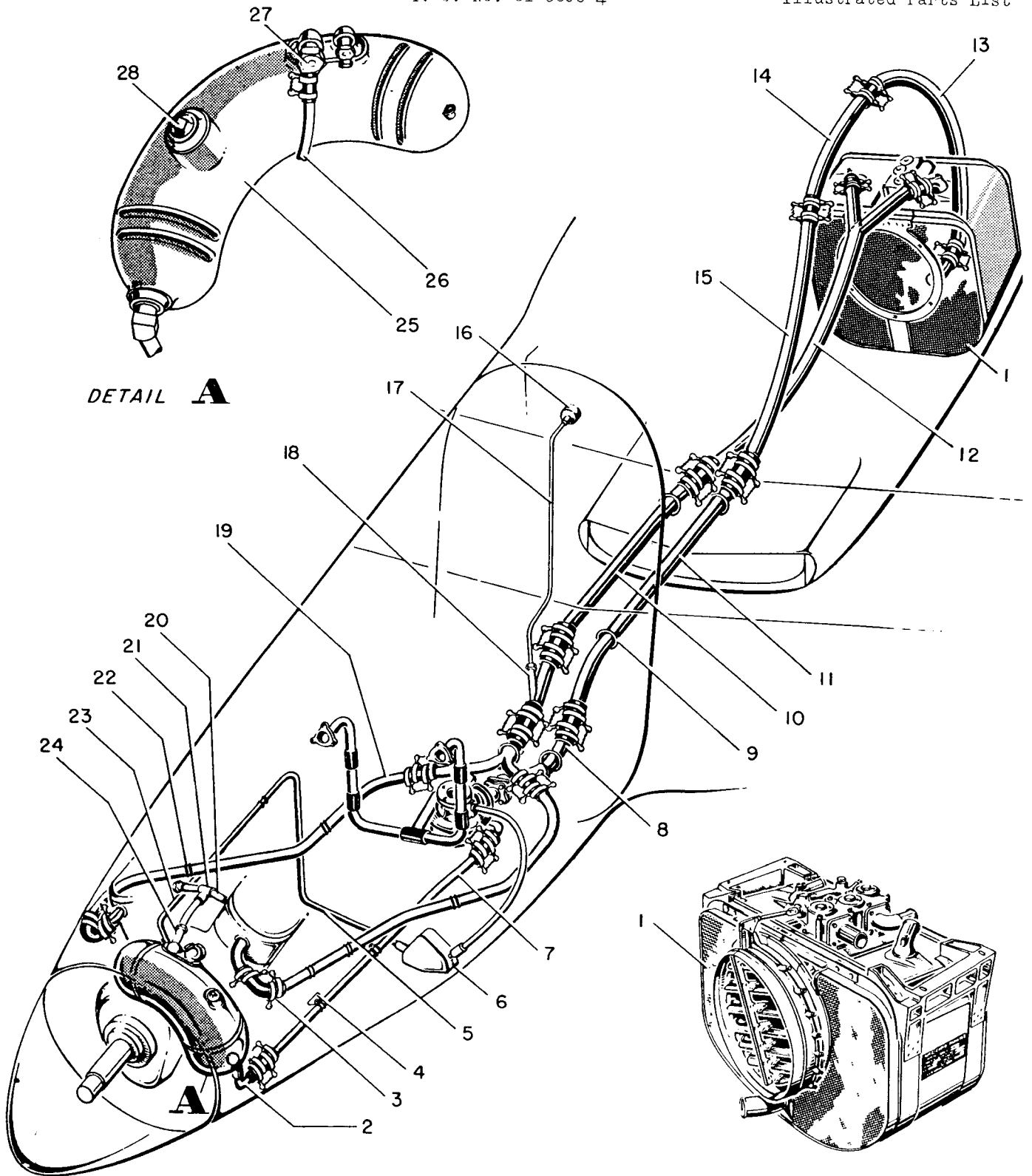
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|--|--------------|--|----------|----------------|--|--|----------|
| Note: All Parts Listed Used On Airplane Block Designations P-51A-10-NA & Subs. | | | | 14 | 91-42110 | Clamp - Carburetor Cold Air Door Control | 1 |
| 1 | 99-42013 | Elbow - Carburetor Air Scoop Complete | 1 | AN3-7A | Bolt | 1 | |
| 2 | 73-42015 | Ring - Carburetor Air Scoop | 2 | AN3-10A | Bolt | 1 | |
| 3 | 73-42018 | Tube - Carburetor Air Intake | 1 | B1070-10-19 | Spacer | 1 | |
| 4 | 73-42011 | Joint - Carburetor Air Duct Flexible | 1 | AC365-1032 | Nut | 2 | |
| 5 | 97-42051-1 | Bracket - Carburetor Air Scoop R.H. | 1 | 91-42107 | Door - Carburetor Cold Air | 1 | |
| | 97-42051 | Bracket - Carburetor Air Scoop L.H. | 1 | AN3-7A | Bolt | 4 | |
| 6 | 73-42053 | Rod - Carburetor Air Scoop Elbow Brace | 2 | AN960-10 | Washer | 4 | |
| 7 | AN4-11A | Bolt | 4 | AC365-1032 | Nut | 4 | |
| 8 | AC503-416-14 | Screw | 10 | 91-42106 | Bellcrank - Carburetor Cold Air Door L.H. | 1 | |
| 9 | 73-42017 | Spacer - Carburetor Air Scoop Flexible Joint | 20 | B983S-32-24-62 | Washer | 1 | |
| 10 | AN4-10A | Bolt | 4 | 91-42111 | Shaft - Carburetor Cold Air Door R.H. | 1 | |
| | AN4-7A | Bolt | 6 | B983S-32-32-62 | Washer | 1 | |
| 11 | AN960-416 | Washer | 20 | 91-42104 | Link - Carburetor Cold Air Door To Hot Air Door Connecting | 1 | |
| 12 | AC365-428 | Nut | 6 | AN23-9 | Clevis Bolt | 2 | |
| | AC365-1032 | Nut | 4 | AN320-3 | Nut | 2 | |
| 13 | 73-42052 | Clip - Carburetor Air Scoop Elbow | 2 | AN380-2-2 | Cotter | 2 | |
| | | | | 18 | 91-42081 | Door - Carburetor Air Scoop | 1 |
| | | | | 19 | 99-42187 | Manifold - Carburetor Hot Air Induction System | 1 |
| | | | | 20 | AC365-428 | Nut | 4 |
| | | | | 21 | AN380-2-2 | Cotter | 4 |

COOLANT SYSTEM

FIGURE No. 55

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|-------------|--|----------|
| 1 | 99-46025 | Radiator - Oil And Prestone Complete | 1 | | | | |
| 2 | 83-46818 | Line - Coolant Tank To Pump First Section | 1 | 14 | FB-62 | Clamp (Wittek) | 4 |
| | AN884-16-18 | Hose | 2 | | 99-46814 | Line - Coolant Radiator To Pump First Section | 1 |
| | FB-14 | Clamp (Wittek) | 8 | | AN884-40-22 | Hose | 2 |
| 3 | 73-46034 | Hose - Coolant Outlet | 2 | 15 | FB-62 | Clamp (Wittek) | 8 |
| | FB-38 | Clamp (Wittek) | 6 | | 99-46815 | Line - Coolant Radiator To Pump Second Section | 1 |
| | 73-46112 | Spring - Coolant System Elbow Retaining | 2 | | 755-40-4-12 | Clip (Adel) | 1 |
| 4 | 73-46095 | Bracket - Coolant Reserve Line Clip | 2 | 16 | Spec. | | |
| 5 | 83-46821 | Line - Sniffle Valve To Drain Box Second Section | 1 | | 94-27947 | Coolant Gauge Type A-23* Eighteen Gauge Open Wire | 1 |
| | FB-6 | Clamp (Wittek) | 1 | 17 | 91-46096 | Tube - Thermometer Coolant Well | 1 |
| | 755-8-2-6 | Clip (Adel) | 1 | 18 | 97-46811 | Line - Right Outlet To "Y" | 1 |
| 6 | 73-42039-20 | Drain Box - Engine | 1 | 19 | AN884-28-20 | Hose | 1 |
| 7 | 83-46819 | Line - Coolant Tank To Pump Second Section | 1 | | FB-38 | Clamp | 4 |
| | AN884-16-16 | Hose | 1 | 20 | 755-29-2-8 | Clip | 2 |
| | FB-14 | Clamp (Wittek) | 4 | | AN884-8-20 | Hose - Coolant Vent L.H. | 1 |
| | 755-16-2-8 | Clip (Adel) | 2 | 21 | 73-46803 | Tee - Coolant Vent Connecting | 1 |
| 8 | 83-46817 | Line - Radiator To Pump Fourth Section | 1 | | AN884-8-20 | Hose | 1 |
| | AN884-40-20 | Hose | 1 | | FB-6 | Clamp (Wittek) | 4 |
| | FB-62 | Clamp (Wittek) | 4 | 22 | AN884-8-16 | Hose - Coolant Vent R.H. | 1 |
| 9 | C386-9-14 | Extrusion - Line Guard | 6 | 23 | 97-46829 | Line - Cooler Sniffle Valve To Drain Box First Section | 1 |
| 10 | 83-46812 | Line - Coolant "Y" To Radiator Second Section | 1 | | AN884-8-10 | Hose | 2 |
| | AN884-40-22 | Hose | 1 | 24 | FB-6 | Clamp (Wittek) | 4 |
| | FB-62 | Clamp (Wittek) | 4 | | 99-46028 | Fitting - Coolant System Engine Vent Restrictor | 1 |
| 11 | 83-46816 | Line - Radiator To Pump Third Sect. | 1 | 25 | 73-46002 | Coolant - Tank | 1 |
| 12 | 99-46825 | Line - Coolant System Radiator "Y" | 1 | 26 | 97-48628 | Line - Coolant Sniffle Valve To Drain Box Line Connector | 1 |
| | AN884-28-20 | Hose | 2 | | AN884-8-10 | Hose | 1 |
| | FB-38 | Clamp | 8 | | FB-6 | Clamp (Wittek) | 2 |
| 13 | 99-46827 | Line - Coolant Radiator Outlet To Line Connecting | 1 | 27 | 1-1140-12 | Sniffle - Valve | 1 |
| | AN884-40-22 | Hose | 1 | 28 | AN909-24 | Plug - Coolant Tank Filler | 1 |

* Denotes Government Furnished Equipment.



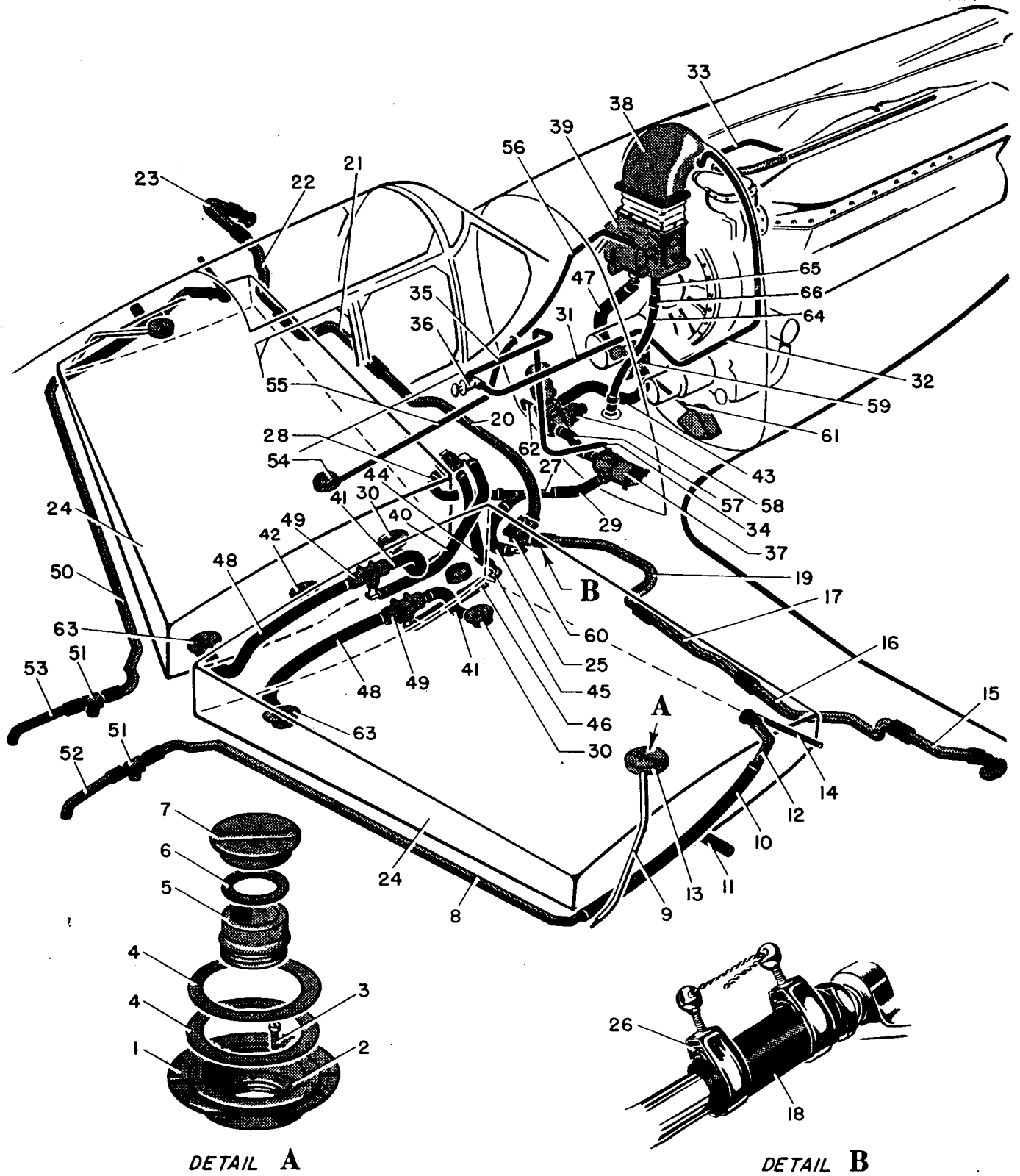
COOLANT SYSTEM

FIGURE No. 55

FUEL SYSTEM

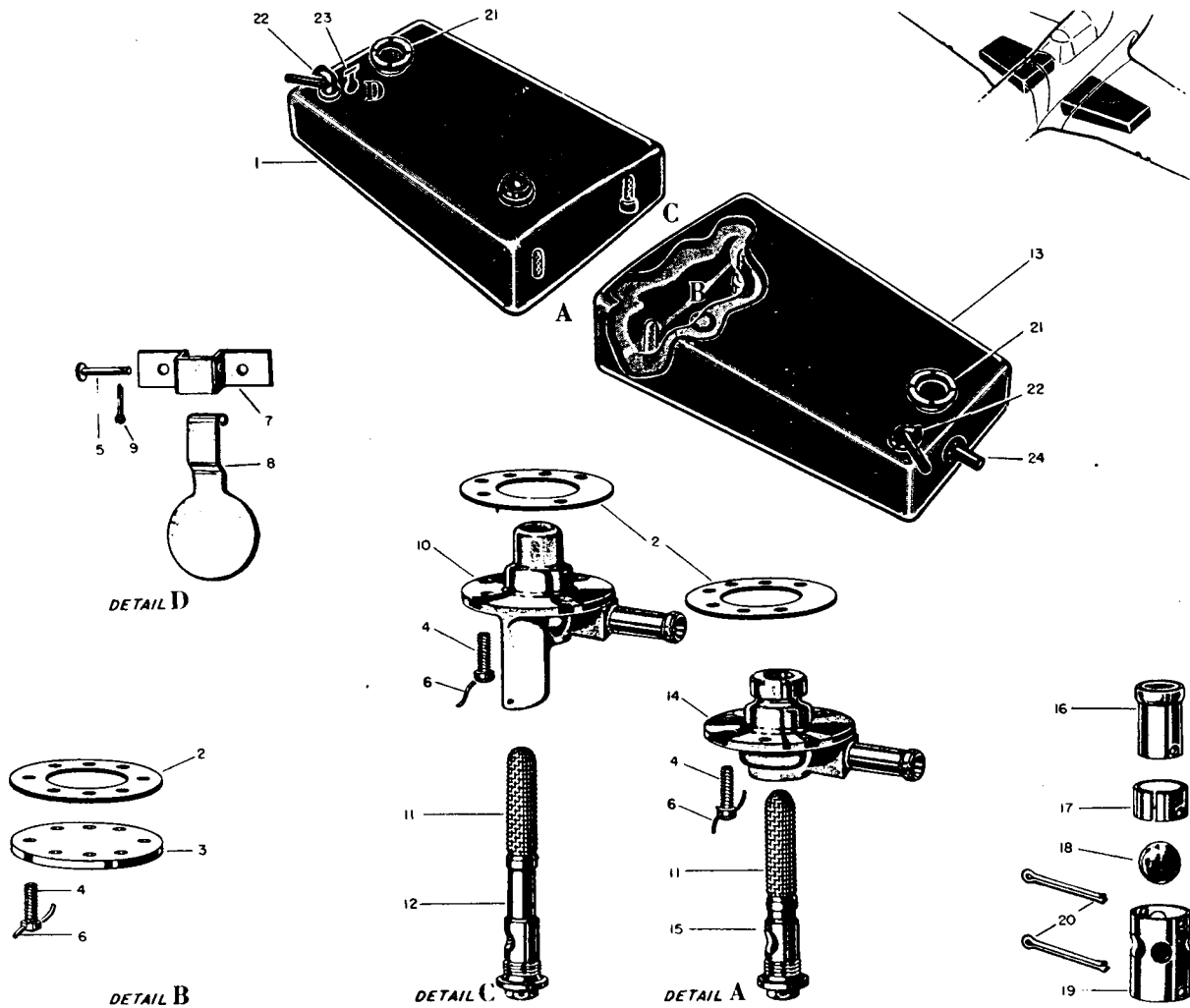
FIGURE No. 56

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|---|----------|---------|--------------|---|----------|
| 1 | 73-48019-2 | Retainer - Fuel Tank Filler Neck | 2 | 37 | U-640-A | Fuel Strainer (See Fig. No. 58) | |
| | 73-48019-3 | Retainer - Fuel Tank Filler Neck | 2 | 38 | 91-42013-100 | Carburetor Aircoop (See Fig. No. 53) | |
| 2 | 73-48009 | Flange - Fuel Tank Filler Neck | 2 | 39 | PD-12K7 | Carburetor (Bendix-Stromberg) (G.F.E.) | 1 |
| 3 | AC503-10-8 | Screw | 16 | | | | |
| 4 | 73-48028 | Gasket - Fuel Tank Filler Neck | 4 | 40 | 97-48801-68 | Line - Fuel Cock To Selector Sump Valve | 1 |
| 5 | 39B4233 | Adapter - Tank Filler Cap | 2 | | FB-14 | Clamp (Wittek) | 2 |
| 6 | 52-48052 | Gasket - Fuel Tank Filler Cap | 2 | 41 | 91-48801-56 | Line - Front Outlet To Selector Sump | 2 |
| 7 | 50-48085 | Cap - Fuel Tank Filler | 2 | | FB-14 | Clamp (Wittek) | 4 |
| 8 | 97-48804 | Line - Tank Vent To Relief Valve Right 2nd Section | 1 | 42 | 99-48072 | Cover Plate - Left Fuel Tank | 1 |
| 9 | 97-48801-61 | Line - Filler Neck Overflow | 2 | | 73-48070 | Gasket - Fuel Tank Outlet And Gage | 1 |
| 10 | 97-48801-62 | Line - Vent 1st Section | 2 | | AC503-10-8 | Screw | 8 |
| | FB-14 | Clamp (Wittek) | 4 | | AC995-C40-10 | Lockwire | 1 |
| 11 | 73-48074-4 | Plug - Fuel Tank To Auxiliary Tank Line | 2 | 43 | 97-48801-53 | Line - Booster Pump To Engine Pump | 1 |
| 12 | 83-48841 | Line - Tank Vent Fitting To Line Connector | 2 | | FB-14 | Clamp (Wittek) | 4 |
| | FB-12 | Clamp (Wittek) | 2 | 44 | 97-48801-59 | Line - Selector Sump To Fuel Cock 3rd Section R.H. | 1 |
| 13 | 73-48082 | Cap - Fuel Tank Filler Complete | 2 | | FB-14 | Clamp (Wittek) | 2 |
| 14 | 73-48074-3 | Plug - Fuel Tank To Auxiliary Tank Line | 2 | 45 | AN847-12 | Fitting | 1 |
| | FB-4 | Clamp (Wittek) | 2 | 46 | 97-48801-58 | Line - Selector Sump To Fuel Cock 1st Section R.H. | 1 |
| 15 | 97-48892 | Line - Droppable Tank To Fuel Cock Right 1st Section | 1 | | FB-14 | Clamp (Wittek) | 2 |
| 16 | 97-48893 | Line - Droppable Tank To Fuel Cock Right 2nd Section | 1 | 47 | 97-48801-51 | Line - Engine Pump To Carburetor | 1 |
| 17 | 97-48886 | Line - Droppable Tank To Fuel Cock Right 3rd Section | 1 | 48 | 97-48801-54 | Line - Rear Outlet To Selector Sump | 2 |
| 18 | AN884-12-11 | Hose - Aeromatic Fuel Resistant | 10 | | FB-14 | Clamp (Wittek) | 4 |
| 19 | 97-48887 | Line - Droppable Tank To Fuel Cock Right 4th Section | 1 | 49 | 10-2940-42 | Selective Sump Valve (Parker) | 2 |
| 20 | 97-48884 | Line - Droppable Tank To Fuel Cock Left 4th Section | 1 | 50 | AN842-12 | Elbow | 2 |
| 21 | 97-48883 | Line - Droppable Tank To Fuel Cock Left 3rd Section | 1 | 51 | 73-48092 | Valve - Tank Vent Suction Relief (See Fig. No. 59) | 1 |
| 22 | 97-48882 | Line - Droppable Tank To Fuel Cock Left 2nd Section | 1 | 52 | 83-48835 | Line - Tank To Outlet Right 4th Section Vent | 1 |
| 23 | 97-48881 | Line - Droppable Tank To Fuel Cock Left 1st Section | 1 | 53 | 83-48834 | Line - Tank To Outlet Left 4th Section Vent | 1 |
| 24 | 83-48003-200 | Tank - Self-Sealing Fuel Complete L.H. (See Fig. No. 57) | | 54 | 97-48105 | Gage - Fuel L.H. (See Fig. No. 61) | 1 |
| | 83-48003-1 | Tank - Self-Sealing Fuel Complete R.H. (See Fig. No. 57) | | 55 | 97-48105-1 | Gage - Fuel R.H. (See Fig. No. 61) | 1 |
| 25 | 97-48801-64 | Hose - Auxiliary Fuel Cock To Inlet "Y" | 1 | | 83-48823 | Line - Firewall To Left Tank Gauge Casting | 1 |
| 26 | FB-11 | Clamp (Wittek) | 2 | | CCT-4 | Elbow (Parker) | 1 |
| 27 | 97-48275 | "Y" Fitting - Auxiliary Fuel System Inlet | 1 | 56 | 3117-4T-4 | Bulkhead Union (Parker) | 1 |
| 28 | 97-48801-65 | Line - Fuel Cock To "Y" Fitting | 1 | 57 | 83-48822 | Line - Carburetor To Firewall | 1 |
| | FB-14 | Clamp (Wittek) | 2 | | 97-48801-52 | Line - Fuel Strainer To Booster Pump | 2 |
| 29 | 97-48801-66 | Line "Y" Fitting To Fuel Strainer | 1 | 58 | FB-14 | Clamp (Wittek) | 1 |
| | FB-14 | Clamp (Wittek) | 2 | | TFD | Fuel Transfer Unit - 10,100 (Thompson) (See Fig. No. 63) | 1 |
| 30 | 73-48010-3 | Flange - Forward Fuel Outlet | 2 | | AN840-12 | Nipple | 1 |
| 31 | 83-48824 | Line - Instrument Panel To Firewall Engine Primer | 1 | | AC852-12 | Elbow | 1 |
| 32 | 83-48825 | Line - Firewall To Connecting Hose Engine Primer | 1 | 59 | R-600-CWT | Fuel Pump - Type G (G.F.E.) | 1 |
| 33 | 83142-4-14 | Hose - Weather Head | 1 | 60 | 73-48037 | Support - Fuel Cock Control Complete (For Fuel Cock And Fuel Cock Control (See Fig. No. 60)) | 1 |
| 34 | 83-48839 | Line - Fuel Strainer To Firewall Engine Primer | 1 | 61 | 73-48801-27 | Hose - Engine Fuel Pump To Drain | 1 |
| 35 | 83-48826 | Line - Instrument Panel To Firewall Primer | 1 | 62 | 91-48836 | Vent Line - Fuel Transfer Unit Complete | 1 |
| 36 | Type E-1 | Primer Pump-401-1A (Parker) | 1 | 63 | 73-48011 | Flange - Rear Fuel Outlet & Sump Drain | 2 |
| | | | | 64 | 99-48805 | Line - Fuel Propane Primer Lower Section | 1 |
| | | | | 65 | 99-48806 | Line - Fuel Propane Primer Upper Section | 1 |



FUEL SYSTEM

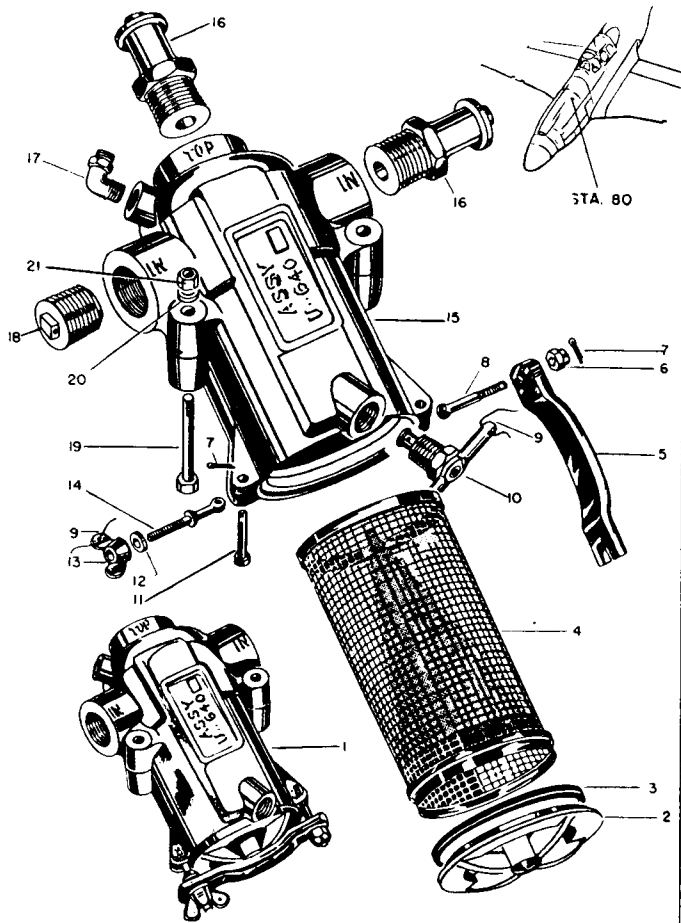
FIGURE No. 56



SELF-SEALING FUEL TANKS

FIGURE No. 57

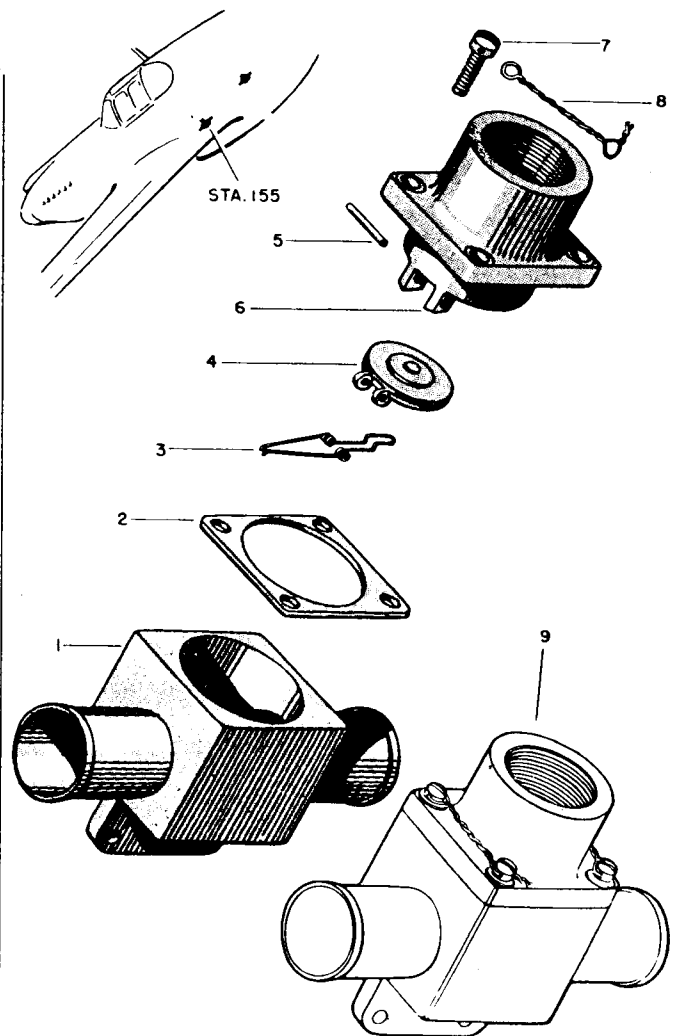
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|---|----------|---------|--------------|--|----------|
| 1 | 83-48003-1 | Tank - Self-Sealing R.H. Complete | 1 | 12 | 73-48048-2 | Fitting - Rear Fuel Outlet & Sump Drain | 2 |
| | 83-48002-1 | Tank (Less Equipment) R.H. | 1 | 13 | 83-48003-200 | Tank - Self-Sealing L.H. Complete | 1 |
| 2 | 73-48070 | Gasket - Fuel Tank Outlet & Gauge Fitting | 5 | | 83-48002 | Tank - (Less Equipment) L.H. | 1 |
| 3 | 99-48072 | Plate - Outlet Left Side Cover | 1 | 14 | 73-48010-3 | Flange - Forward Fuel Outlet | 2 |
| 4 | AC503-10-8 | Screw | 34 | 15 | 73-48048-3 | Fitting - Forward Fuel Fitting | 2 |
| 5 | AN392-29 | Pin | 2 | 16 | 73-48110-2 | Tube - Fuel Tank Vent Check Valve | 2 |
| 6 | AC995-C40-10 | Lockwire | 5 | 17 | 73-48110-4 | Spacer - Fuel Tank Vent Check Valve | 2 |
| 7 | 83-48126-3 | Bracket - Inlet Flapper Valve | 2 | 18 | 73-48110-5 | Cellulose Acetate Coated Cork Ball | 2 |
| 8 | 83-48126-2 | Flap - Inlet Flapper Valve | 2 | 19 | 73-48110-3 | Tube - Fuel Tank Vent Check Valve | 2 |
| 9 | AN380-2-2 | Cotter Pin | 2 | 20 | AN380-4-7 | Cotter Pin | 4 |
| 10 | 73-48011 | Flange - Rear Fuel Outlet & Sump Drain L.H. | 1 | 21 | | Filler Neck Fitting (Firestone) | 2 |
| | 73-48011-1 | Flange - Rear Fuel Outlet & Sump Drain R.H. | 1 | 22 | | Dual Vent (Firestone 4250) | 2 |
| | | | 1 | 23 | 83-48126 | Valve - Fuel Tank Inlet Flapper Complete | 2 |
| 11 | AN4007-13 | Strainer | 4 | 24 | 73-48074-4 | Plug | 2 |



FUEL STRAINER

FIGURE No. 58

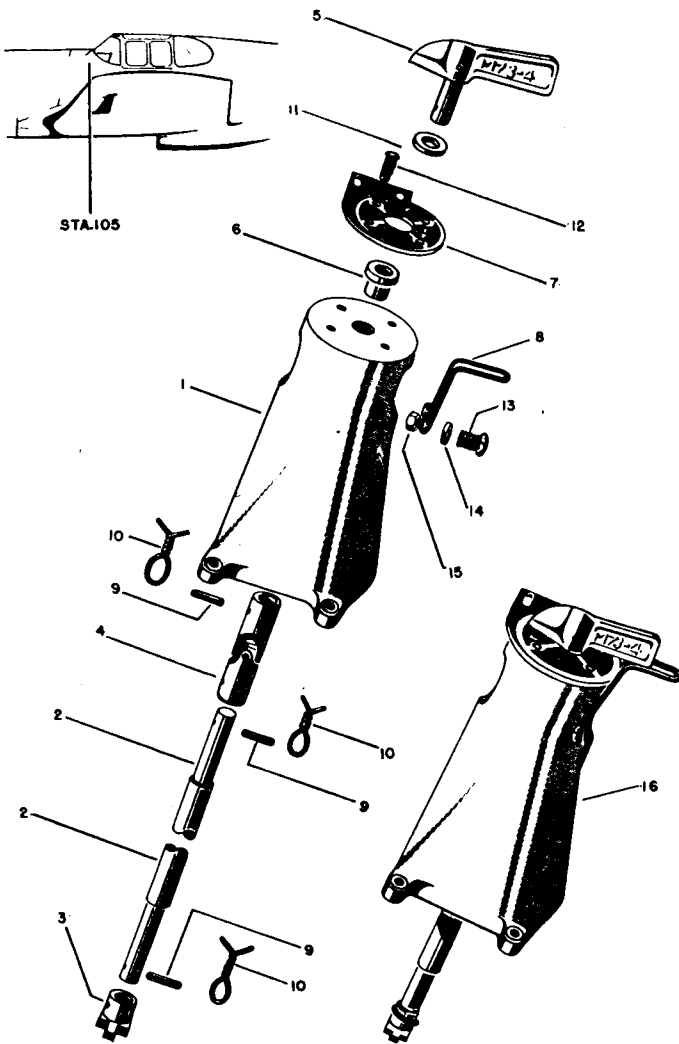
| REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---|-------------|--|----------|
| Note: All Parts Listed Except AN & AC Standards Are United Aircraft Products, Inc., Dayton, Ohio, Part Numbers. | | | |
| 1 | U-C-640A | Fuel Strainer (United Aircraft Products) | 1 |
| 2 | U-A-642 | Cover | 1 |
| 3 | U-A-643 | Gasket | 1 |
| 4 | U-A-653 | Screen | 1 |
| | U-B-2596 | Screen - Alternate | 1 |
| 5 | U-A-659 | Clamp | 1 |
| 6 | AN310-4 | Nut | 1 |
| 7 | AN380-2-2 | Pin | 2 |
| 8 | U-A-400292 | Bolt | 1 |
| 9 | AC995-41-7 | Lockwire | 2 |
| 10 | AN771-2 | Draincock | 1 |
| 11 | AN393-41 | Pin | 2 |
| 12 | AN960-416 | Washer | 1 |
| 13 | U-A-329 | Wing - Nut | 1 |
| 14 | U-A-662 | Bolt | 1 |
| 15 | U-C-641A | Body | 1 |
| 16 | AN840-12 | Nipple | 2 |
| 17 | AC811-CT4 | Elbow | 1 |
| 18 | AN913-3 | Plug | 1 |
| 19 | AN4-42A | Bolt | 2 |
| 20 | AN960-416 | Washer | 2 |
| 21 | AC365-428 | Nut | 2 |



SUCTION RELIEF VALVE

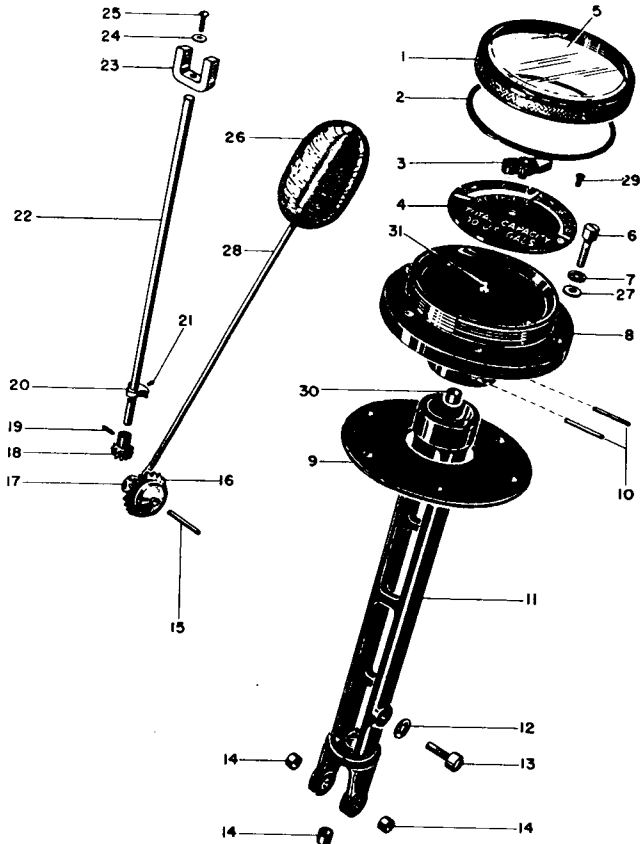
FIGURE No. 59

| REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|----------------|---|----------|
| 1 | 73-48088 | Body - Fuel Tank Vent Suction Relief Valve | 2 |
| 2 | 73-48091 | Gasket - Fuel Tank Vent Suction Relief Valve | 2 |
| 3 | 73-48093 | Spring - Fuel Tank Vent Suction Relief Valve | 2 |
| 4 | 73-48090 | Flapper - Fuel Tank Vent Suction Relief Valve | 2 |
| | B985AL-6-24-40 | Retainer | 2 |
| | B985N-6-32-32 | Seal | 2 |
| 5 | 73-48092-2 | Drill Rod - Fuel Tank Vent Suction Relief Valve | 2 |
| 6 | 73-48089 | Flange - Fuel Tank Vent Suction Relief Valve | 2 |
| 7 | AC503-10-10 | Screw | 2 |
| 8 | AC995-C40-8 | Lockwire | 2 |
| 9 | 73-48092 | Valve - Fuel Tank Vent Suction Relief Complete | 2 |



FUEL COCK CONTROL

FIGURE No. 60



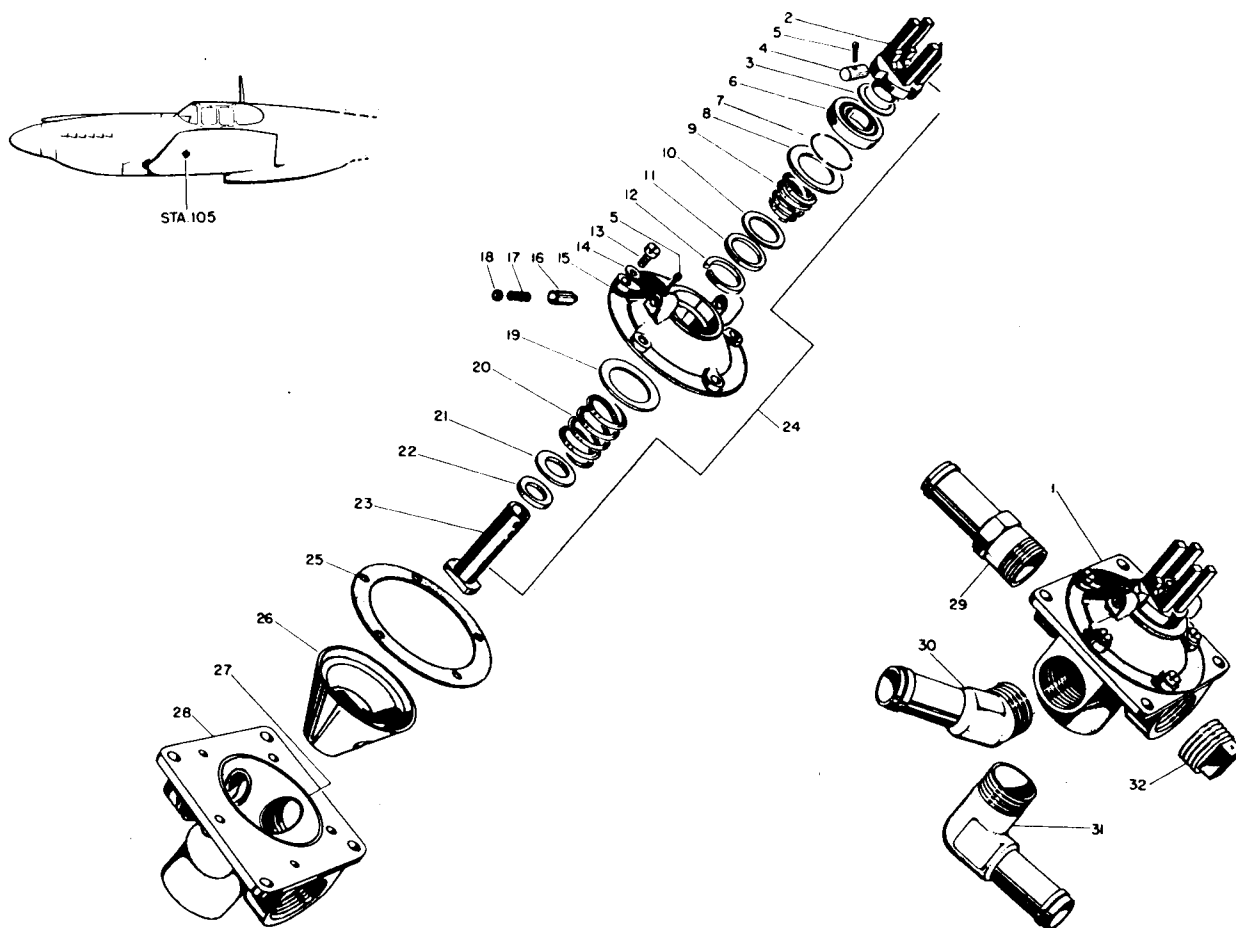
FUEL GAGE

FIGURE No. 61

| REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|--|----------|
| 1 | 73-48037-3 | Support - Fuel Cock Control Complete Shaft R.H. | 1 |
| | 73-48037 | Support - Fuel Cock Control Complete Shaft L.H. | 1 |
| 2 | 97-48042-2 | Shaft - Fuel Cock Control | 2 |
| 3 | 066650 | Driver- Fuel Cock Control Shaft | 2 |
| 4 | 34-48100 | Joint - Fuel Cock Control Universal | 2 |
| 5 | 73-48068 | Handle - Fuel Valve Control | 2 |
| 6 | F-503 | Oilite Bearing | 2 |
| 7 | 97-48041 | Dial - Auxiliary Cock Control (On R.H. Only) | 1 |
| | 99-48043 | Dial - Auxiliary Cock Control ((On L.H. Only) | 1 |
| 8 | 97-48047 | Catch - Fuel Cock Control Handle Safety (On R.H. Only) | 1 |
| 9 | B1194-20-6 | Taper Pin | 6 |
| 10 | AC995-32-4 | Lockwire | 6 |
| 11 | AN960-D716 | Washer | 2 |
| 12 | AN535-2-4 | Drive Screw | 8 |
| 13 | B1287-8-10 | Screw (On R.H. Only) | 2 |
| 14 | AN960-8 | Washer (On R.H. Only) | 2 |
| 15 | AC365-832 | Nut (On R.H. Only) | 2 |
| 16 | 97-48044-1 | Shaft - Fuel Cock Control Complete R.H. | 1 |
| | 97-48044-200 | Shaft - Fuel Cock Control Complete L.H. | 1 |

| REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---------------------------|----------|
| | 97-48105 | Gage - Fuel Complete L.H. | 1 |
| | 97-48105-1 | Gage - Fuel Complete R.H. | 1 |
| 1 | 503EALBX | Bezel | 2 |
| 2 | 638EEA | Gasket | 2 |
| 3 | 2154EX | Magnetic Pointer | 2 |
| 4 | 97-48106 | Dial - Fuel Left Gage | 1 |
| | 97-48107 | Dial - Fuel Right Gage | 1 |
| 5 | 736A | Window | 2 |
| 6 | 827EA | Screw - Flange | 12 |
| 7 | 632EX | Washer - Lock | 12 |
| 8 | 41EEEX | Head | 2 |
| 9 | 637EEA | Gasket | 2 |
| 10 | 1420E | Lock Pin | 4 |
| 11 | 1395BX | Body | 2 |
| 12 | 648X | Lock Washer | 2 |
| 13 | 832EX | Stop Pin | 2 |
| 14 | 2290 | Bearing | 6 |
| 15 | 1491E | Gear Shaft | 2 |
| 16 | 10,057BX | Gear | 2 |
| 17 | 1797BX | Sleeve For Gear | 2 |
| 18 | 1140EBX | Pinion | 2 |
| 19 | 1402EEA | Taper Pin | 2 |
| 20 | 1615EE | Limit Stop | 2 |
| 21 | 808EEA | Set Screw | 2 |
| 22 | 1099E | Magnet Shaft | 2 |
| 23 | 2148A | Magnet | 2 |
| 24 | 619EX | Lock Washer | 2 |
| 25 | 807EEEX | Binding Screw | 2 |
| 26 | 2334A | Float | 2 |
| 27 | 635EA | Washer | 12 |
| 28 | 1029EBX | Float Arm | 2 |
| 29 | 888AX | Dial Retaining Screw | 4 |
| 30 | 2286E | Bearing | 2 |
| 31 | 1424EX | Pivot | 2 |

Note: All Parts Listed With Exception Of N.A.A. Part Numbers Are Boston Auto Gage Co., Pittsfield, Mass., Parts.



FUEL SELECTOR COCK

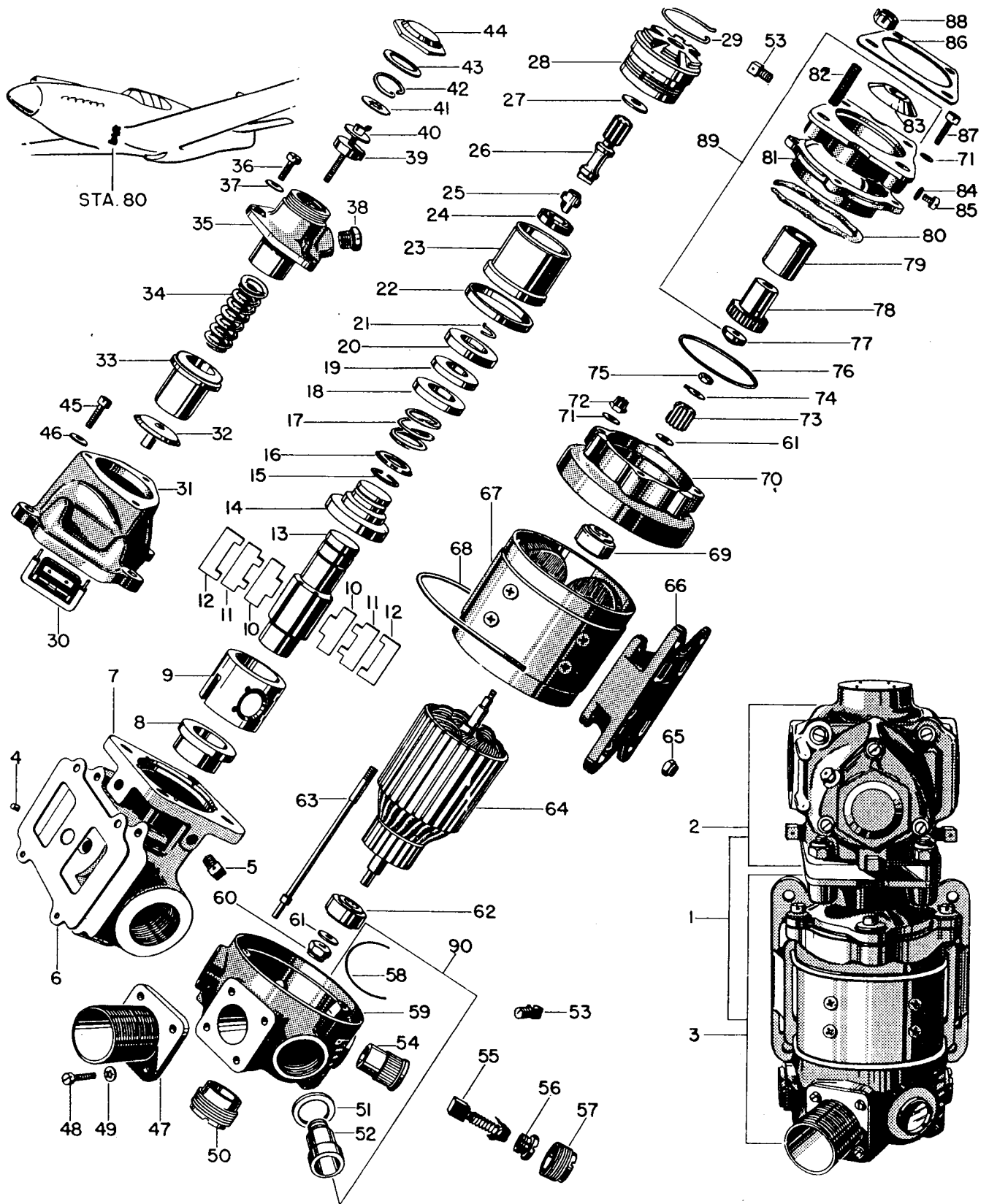
FIGURE No. 62

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---|-------------|---|----------|---------|-------------|---|----------|
| Note: All Parts Listed Except "AN" And "AC" Standards Are Thompson Products, Inc., Cleveland, Ohio, Part Numbers. | | | | 16 | TCA-14034 | Finder - Fuel Cock Position | 4 |
| | | | | 17 | TCA-14035 | Spring - Position Finder | 4 |
| | | | | 18 | AN960-4 | Washer - Finder Spring Retaining | 4 |
| 1 | TCB-14100-1 | Cock Assem. - Fuel Selector (Less Fittings) | 2 | 19 | TCA-14018 | Washer - Spring Retaining | 2 |
| 2 | TCB-14248 | Yoke - Lifter | 2 | 20 | TCA-14016 | Spring - Cone Pressure | 2 |
| 3 | TCA-14047 | Shim - Fuel Selector Cock | 2 | 21 | TCA-14015 | Bearing - Upper Race End Thrust | 2 |
| 4 | TCA-14049-1 | Pin - Lifting | 8 | 22 | TCA-14069 | Bearing - Thrust | 2 |
| 5 | AN380-C2-3 | Pin - Cotter | 2 | 23 | TCA-14107 | Shaft - Fuel Selector Cock | 2 |
| 6 | TCA-14012 | Bearing - Drive End | 6 | 24 | TCB-14130-1 | Cover Assem. - Fuel Selector Cock | 2 |
| 7 | TCA-14027 | Ring - Washer Retaining | 2 | 25 | TCA-14061 | Gasket - Fuel Selector Cock | 2 |
| 8 | TCA-14026 | Washer - Seal Spring Retaining | 6 | 26 | TCA-14102 | Cone - Fuel Selector Cock | 2 |
| 9 | TCA-14025 | Spring - Packing Gland | 2 | 27 | TCA-14006 | Seal - Port | 8 |
| 10 | TCA-14024 | Washer - Seal Retaining | 2 | 28 | TCA-14133 | Body - Fuel Selector Cock (Complete With Seals) | 2 |
| 11 | TCA-14023 | Auxiliary Seal - Stuffing Box | 2 | 29 | AN840-12 | Nipple (On Right Hand Cock) | 1 |
| 12 | TCA-14022 | Packing - Stuffing Box | 2 | 30 | AN844-12 | Elbow - 45° (On Left Hand Cock) | 1 |
| 13 | AC503-10-10 | Screw - Fillister Head | 10 | | AN844-12 | Elbow - 45° (On Right Hand Cock) | 1 |
| 14 | AN960-10 | Washer - Plain | 10 | | AN842-12 | Elbow - 90° (On Left Hand Cock) | 1 |
| 15 | TCD-14132 | Cover - Fuel Cock | 2 | 31 | AN842-12 | Elbow - 90° | 2 |
| | | | | 32 | AN913-6 | Plug | 2 |

FUEL TRANSFER UNIT

FIGURE No. 63

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|--|-------------|---|----------|---------|--------------|-------------------------------------|----------|
| Note: All Parts Listed That Have TFA, TFB, & TFD Part Numbers Are Thompson Products Inc., Cleveland, Ohio, Parts. All Other Part Numbers Except AN & AC Standards Are Delco Products, General Motors Corp., Dayton, Ohio, Parts. | | | | 43 | TFA-159 | Gasket - Valve Cap Nut | 1 |
| 1 | TFD-10,100 | Unit - Fuel Transfer Complete | 1 | 44 | TFA-158-1 | Nut - Valve Cap | 1 |
| 2 | TFD-2100 | Pump - Fuel | 1 | 45 | AC503-416-12 | Screw - Fillister Head (TFA-169) | 4 |
| 3 | A7025 | Motor - Fuel | 1 | 46 | AN960-416 | Washer - Plain (TFA-170) | 4 |
| 4 | TFA-2107 | Pin - Liner Locking | 1 | 47 | 1063999 | Receptacle | 1 |
| 5 | AC895-B70 | Plug - 1/8" Pipe (TFA-168) | 3 | 48 | 131825 | Screw - Receptacle | 4 |
| | TFA-6754 | Plug - Explosion Proof Vent | 1 | 49 | 138522 | Washer - Receptacle Screw Cock | 4 |
| 6 | TFA-161 | Gasket - Valve Flange | 1 | 50 | 5360739 | Plug - End Frame Center | 1 |
| 7 | TFD-2106 | Body - Aircraft Fuel Pump | 1 | 51 | 5348851 | Washer - Brush Holder | 2 |
| 8 | TFA-2113-1 | Bearing - Anti-Drive End | 1 | 52 | 5361498 | Holder - Brush (Insulated) | 2 |
| 9 | TFA-2108 | Liner - Fuel Pump | 1 | 53 | 5361296 | Plug Assem. - Vent (C.E.) (D.E.) | 2 |
| 10 | TFA-2109 | Blade - Center Tongue | 2 | 54 | 5361781 | Holder - Brush (Grounded) | 2 |
| 11 | TFA-2111 | Blade - Intermediate Tongue | 2 | 55 | 1071535 | Brush Assembly | 4 |
| 12 | TFA-2110 | Blade - Side Tongue | 2 | 56 | 5343971 | Screw - Brush Holder Retaining | 4 |
| 13 | TFA-2102 | Rotor Assem. - Aircraft Fuel Pump | 1 | 57 | 5368691 | Screw - Brush Cover | 4 |
| 14 | TFA-2112-1 | Bearing - Drive End | 1 | 58 | 5360512 | Lead - Brush To Receptacle | 1 |
| 15 | TFA-126 | Ring - Seal Spring Snap | 1 | | 5348853 | Lead - Brush Connecting | 1 |
| 16 | TFA-121 | Retainer - Seal Spring | 1 | 59 | 5360381 | Frame - End | 1 |
| 17 | TFA-125 | Spring - Seal | 1 | 60 | 1065966 | Nut - Ball Bearing Retaining (C.E.) | 1 |
| 18 | TFA-124 | Cup - Seal | 1 | 61 | 5343464 | Washer - Thrust (C.E.) | 1 |
| 19 | TFA-123-2 | Cushion - Seal | 1 | | 5344307 | Washer - Thrust (D.E.) | 1 |
| 20 | TFA-122 | Seal - Fuel | 1 | 62 | 5343536 | Bearing - Ball (C.E.) | 1 |
| 21 | TFA-127 | Ring - Seal Driver | 1 | 63 | 5344309 | Bolt - Thru | 2 |
| 22 | TFA-2115-1 | Gasket - Bearing | 1 | 64 | 5364848 | Armature | 1 |
| 23 | TFA-2114 | Housing - Seal | 1 | | 5337377 | Key | 1 |
| 24 | TFA-111-1 | Seal - Engine Oil | 1 | 65 | 1064016 | Nut - Base - U-Bolt | 4 |
| 25 | TFA-164 | Link - Coupling | 1 | 66 | 1063997 | Base | 1 |
| 26 | TFA-120 | Shaft - Spline Driver | 1 | 67 | 5360769 | Coil Assem. - Frame And Field | 2 |
| 27 | TFA-107 | Washer - Driver Thrust | 1 | 68 | 1066034 | U-Bolt - Base | 2 |
| 28 | TFA-2104 | Nut Assem. - Aircraft Fuel Pump | 1 | 69 | 1064017 | Bearing - Ball (D.E.) | 1 |
| 29 | TFA-119 | Ring - Seal Nut Lock | 1 | 70 | 5364843 | Frame - End (D.E.) | 1 |
| 30 | TFA-134 | Valve Assem. - Fuel Pump By-Pass | 1 | 71 | 42663 | Washer - Thru Bolt Lock | 6 |
| 31 | TFA-131 | Body Assem. - Aircraft Fuel Pump Valve Lower | 1 | 72 | 5343974 | Nut - Bolt Thru | 2 |
| 32 | TFA-156 | Valve - Relief | 1 | 73 | 5364948 | Gear - Pinion | 1 |
| 33 | TFA-142-1 | Diaphragm Assem. - Fuel Pump Relief Valve | 1 | 74 | 5364945 | Washer - Ball Bearing Lock (D.E.) | 1 |
| 34 | TFA-157 | Spring - Relief Valve | 1 | 75 | 49681 | Nut - Ball Bearing Retaining (D.E.) | 1 |
| 35 | TFB-146 | Body - Relief Valve Upper | 1 | 76 | 5364858 | Gasket - Gear Housing | 1 |
| 36 | AC503-10-8 | Screw - Fillister Head (TFA-166) | 3 | 77 | 5364859 | Bearing - Thrust | 1 |
| 37 | AN960-10 | Washer - Plain (TFA-167) | 3 | 78 | 5344306 | Gear | 1 |
| 38 | TFA-155-1 | Plug - Plain Vent | 1 | 79 | 5364857 | Bearing - Sleeve | 1 |
| 39 | TFA-154 | Nut - Valve Adjustment | 1 | 80 | 5365250 | Wick | 1 |
| 40 | TFA-147 | Screw Assem. - Valve Adjustment | 1 | 81 | 5364842 | Case - Gear | 1 |
| 41 | TFA-152 | Washer - Thrust | 1 | 82 | 1063998 | Stud | 4 |
| 42 | TFA-151 | Ring - Valve Adjustment Snap | 1 | 83 | 5364856 | Thrower - Oil | 1 |
| | | | | 84 | 1062495 | Washer - Oil Plug | 1 |
| | | | | 85 | 5365199 | Screw - Oil Plug | 1 |
| | | | | 86 | TFA-160 | Gasket - Mounting Flange | 1 |
| | | | | 87 | 5344308 | Screw - Housing Gear | 4 |
| | | | | 88 | AC365-524 | Nut - Self Locking (TFA-9003) | 4 |
| | | | | 89 | 5364841 | Case Assem. - Gear | 1 |
| | | | | 90 | 5368690 | Frame Assem. - End (C.E.) | 1 |



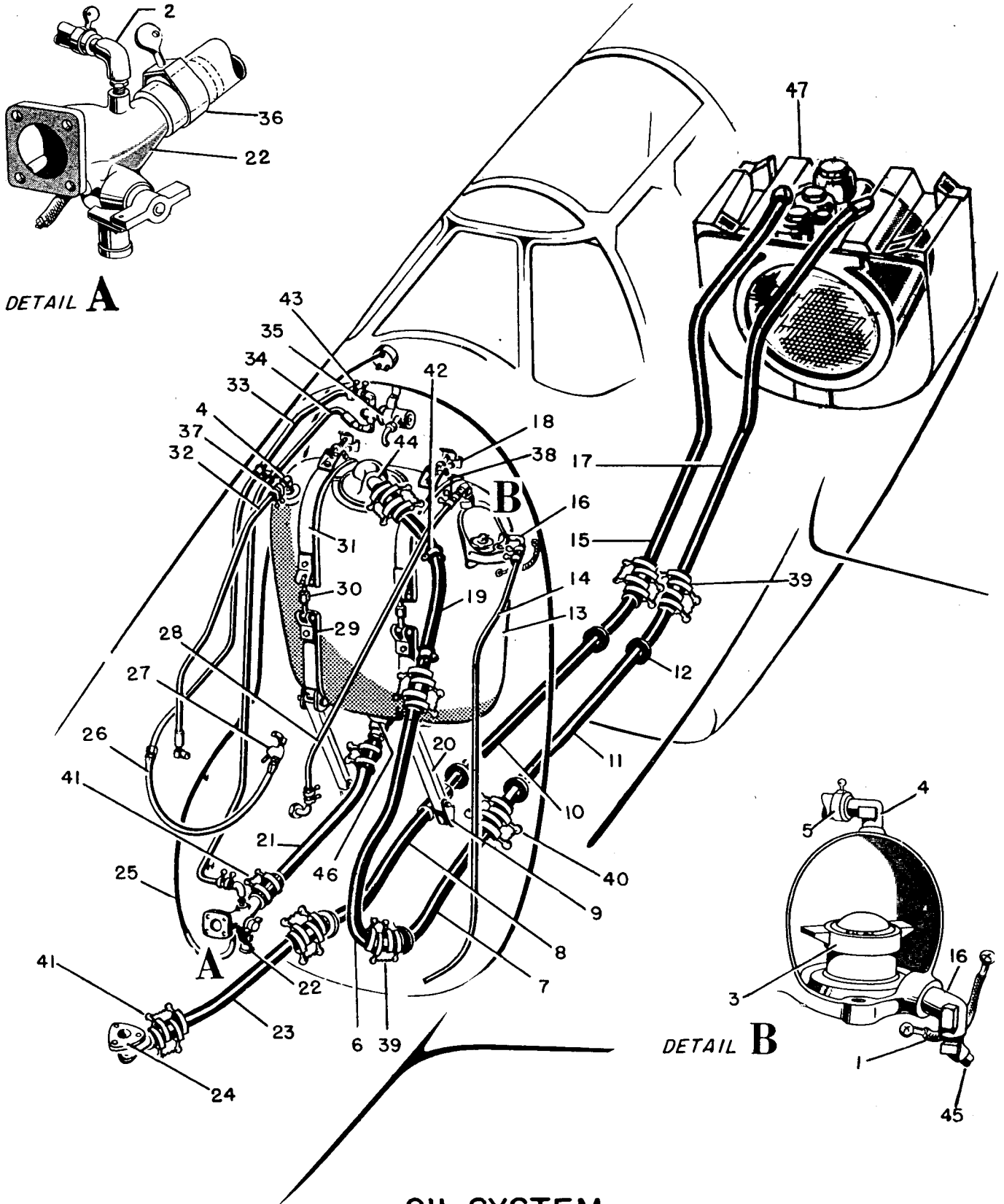
FUEL TRANSFER UNIT

FIGURE No. 63

OIL SYSTEM

FIGURE No. 64

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-----------------|--|----------|---------|--------------|---|----------|
| 1 | B1209-8-101-5-3 | Bonding - Oil Tank To Firewall | 2 | 24 | 91-47010 | Flange - Engine Oil Outlet | 1 |
| 2 | AC850-4 | Elbow | 1 | | AN310-5 | Nut | 3 |
| 3 | 97-47053 | Cap - Oil Tank Filler | 1 | | AN380-2-4 | Pin - Cotter | 3 |
| 4 | AN842-8 | Elbow - Vent Line | 2 | 25 | | Oil Temperature Capillary To Engine Gauge | 1 |
| 5 | PB-6 | Clamp - Vent Line Hose (Wittek) | 10 | 26 | 39B-3481-414 | Hose - Oil Line Dilution Valve To Tee Fitting 1st Section | 1 |
| 6 | 99-47808 | Line - Oil System Cooler To Tank 4th Section | 1 | | | Fitting - Oil Dilution Line Hose | 1 |
| 7 | 83-47807 | Line - Oil System Cooler To Tank 3rd Section | 1 | 27 | AC37A-3528 | Line - Oil System Left Vent | 1 |
| 8 | 83-47802 | Line - Oil System Engine To Cooler 2nd Section | 1 | 28 | 97-47811 | Clip (Adel) | 2 |
| 9 | 73-47033 | Lug - Oil Tank Lower Support | 2 | 29 | 73-47031 | Strap - Oil Tank Lower | 2 |
| | AN4-7A | Bolt | 4 | 30 | 15-48020-2 | Turnbuckle - Tank Strap | 2 |
| | B985-20-24-19 | Washer - Plain | 2 | | 15-48021-2 | Nut | 2 |
| | AC365-428 | Nut | 4 | | 15-48021-3 | Nut | 2 |
| 10 | 83-47803 | Line - Oil System Engine To Oil Cooler 3rd Section | 1 | 31 | 83-47030 | Strap - Oil Tank Upper | 2 |
| 11 | 83-47806 | Line - Oil System Cooler To Tank 2nd Section | 1 | 32 | 83-47812 | Line - Oil System R.H. Vent | 1 |
| 12 | C386-6-11 | Extrusion - Line Guard | 4 | 33 | 97-47814 | Line - Oil System Dilution Valve To "T" Fitting 1st Section | 1 |
| 13 | 99-47002 | Tank - Oil | 1 | | | Elbow | 1 |
| 14 | 97-47815 | Line - Oil Filler Overflow | 1 | 34 | AN842-4 | Line - Oil System Oil Dilution Valve To "Y" Drain | 1 |
| | 755-6-2-6 | Clip (Adel) | 2 | | | Elbow (Upper) | 1 |
| | 755-8-2-6 | Clip (Adel) | 3 | | | Elbow (Upper) | 1 |
| 15 | 99-47805 | Line - Oil System Cooler To Tank 1st Section | 1 | 35 | AN914-1 | Valve - Oil Dilution Solenoid | 1 |
| 16 | AN914-3 | Elbow - Oil Filler Overflow Line | 1 | | AN844-4 | Clamp | 1 |
| 17 | 99-47804 | Line - Oil System Engine To Oil Cooler 4th Section | 1 | | 37D6210 | Bolt | 4 |
| | | | | | 55-47018 | Nut | 4 |
| 18 | 83-47034 | Bracket - Oil Tank Upper Support | 2 | 36 | AN3-3A | Clamp - (Wittek) | 48 |
| | AN5-10A | Bolt | 2 | 37 | AC365-1032 | Clamp - (Wittek) | 10 |
| | AC365-524 | Nut | 2 | 38 | PB-30 | Hose | 3 |
| 19 | 99-47809 | Line - Oil System Cooler To Tank 5th Section | 1 | | AN884-4-10 | Clamp - (Wittek) | 6 |
| 20 | 73-47037 | Channel - Oil Tank Lower Support | 2 | 39 | PB-2 | Clip - (Adel) | 4 |
| | AN4-17A | Bolt | 4 | | 755-4-2-6 | Hose | 5 |
| | B1071-8-31 | Spacer - Bolt | 4 | 40 | AN884-3-10 | Clip - (Adel) | 3 |
| | AC365-428 | Nut | 4 | 41 | 755-24-2-8 | Hose | 6 |
| | AN960-416 | Washer | 8 | 42 | AN844-24-18 | Hose | 7 |
| 21 | 97-47810 | Line - Oil System Tank To "Y" Drain | 1 | 43 | AN334-24-20 | Clip - (Adel) | 2 |
| 22 | 91-47026 | Valve - Oil "Y" Drain | 1 | 44 | 755-24-2-8 | Hose | 1 |
| | 97-47036 | Gasket | 1 | 45 | AN884-4-10 | Clamp | 2 |
| 23 | 83-47801 | Line - Oil System Engine To Oil Cooler 1st Section | 1 | 46 | PB-2 | Elbow | 1 |
| | | | | 47 | AC853-24 | Elbow | 1 |
| | | | | | AN844-8 | Nipple | 1 |
| | | | | | AC835-24 | Radiator - Oil & Prestone | 1 |
| | | | | | 99-46025 | | |



OIL SYSTEM

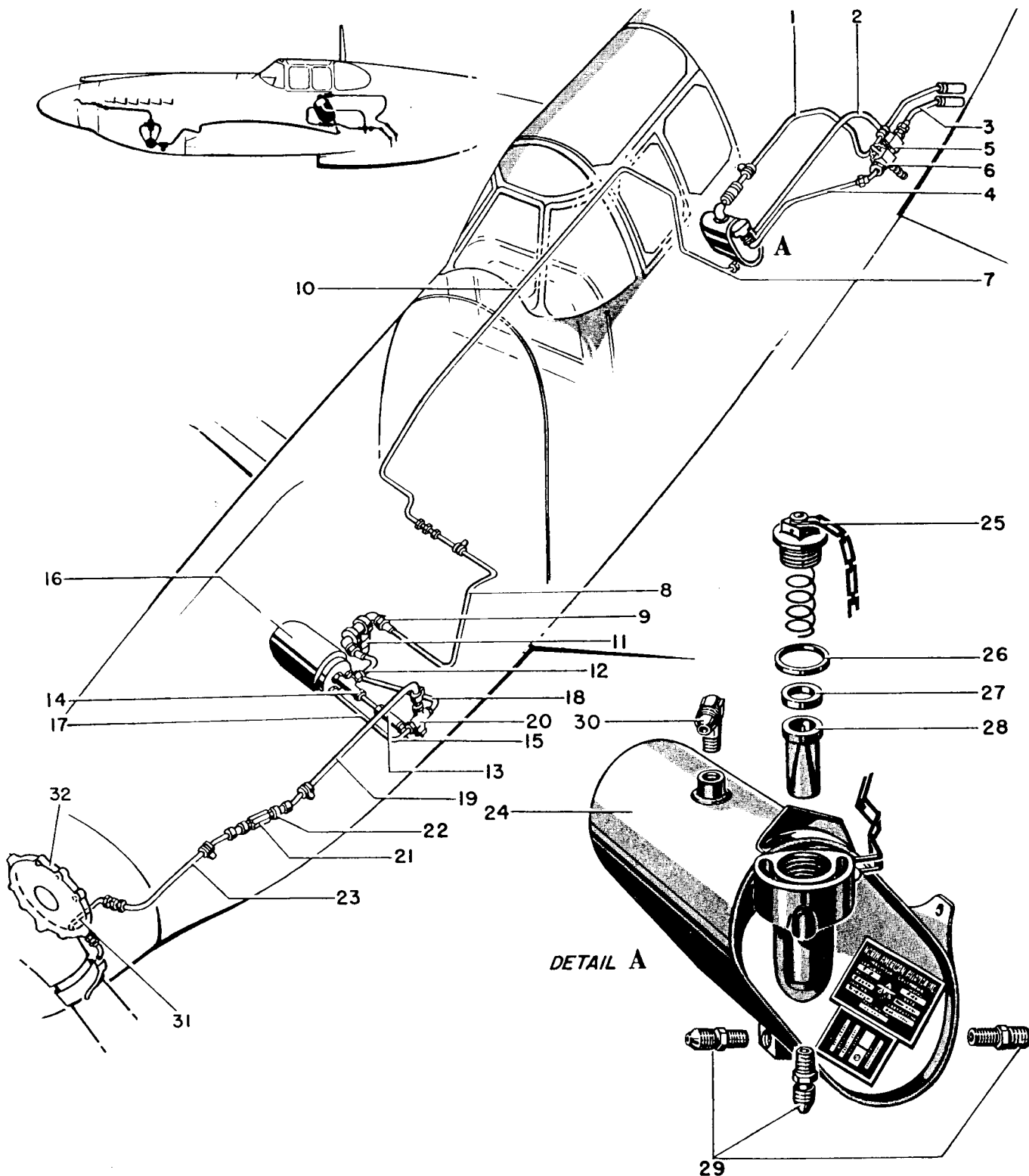
FIGURE No. 64

RESTRICTED

PROPELLER DE-ICING SYSTEM

FIGURE No. 65

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|-----------------|--|----------|
| 1 | 99-53878 | Line - De-Icer System Vent To Outlet 1ST Section | 1 | 15 | 99-53870 | Line - De-Icer Propeller Relief Valve To Pump Outlet Tee | 1 |
| | AN884-4-11 | Hose | 2 | 16 | J2.5-24D4 | Pump (1/8 P.T.) (Adel) | 1 |
| | FB-2 | Clamp (Wittek) | 4 | 17 | 99-53851 | Line - De-Icer Propeller Pump To Tee | 1 |
| 2 | 99-53879 | Line - De-Icer System Carburetor Tank Overflow To Tee | 1 | 18 | 99-53852 | Line - De-Icer Propeller Pump To Tee | 1 |
| 3 | 99-53876 | Line - De-Icer System Tee To Outlet 1ST Section | 1 | 19 | 99-53853 | Line - De-Icer Propeller Tee To Feed Nozzle 1ST Section | 1 |
| | AN884-4-11 | Hose | 1 | 20 | 4-KT-D | Cross (Parker) | 1 |
| | FB-2 | Clamp (Wittek) | 2 | 21 | B8212-1 | Restrictor (Adel) | 1 |
| 4 | 99-53877 | Line - De-Icer System Tank To Drain Cock | 1 | 22 | 99-53156 | Nipple - Propeller Anti-Icer System Hose | 1 |
| 5 | AN917-10 | Tee | 1 | 23 | 99-53854 | Line - De-Icer Propeller Tee To Feed Nozzle 2ND Section | 1 |
| 6 | AC765-1 | Draincock | 1 | | AN884-4-11 | Hose | 2 |
| 7 | 99-53846 | Line - De-Icer Propeller One Gallon Tank To Filter 1ST Section | 1 | | FB-2 | Clamp (Wittek) | 4 |
| 8 | 99-53848 | Line - De-Icer Propeller One Gallon Tank To Filter 3RD Section | 1 | 24 | 91-53134 | Tank - Alcohol De-Icer | 1 |
| | | | | 25 | 36-58053 | Plug - Filler | 1 |
| 9 | AC811HT-4D | Union | 1 | 26 | AN900-20 | Gasket | 1 |
| 10 | 99-53847 | Line - De-Icer Propeller One Gallon Tank To Filter 2ND Section | 1 | 27 | B985AL-48-36-64 | Washer - Plain | 1 |
| | | | | 28 | 26-58080 | Strainer - De-Icer Tank | 1 |
| | | | | 29 | AC811FT-4D | Nipple | 3 |
| 11 | 8989 | Filter (Adel) | 1 | 30 | 26-53030 | Strainer - De-Icer Tank | 1 |
| 12 | 99-53850 | Line - De-Icer Propeller Filter To Pump | 1 | 31 | 99-53153 | De-Icer - Propeller Fluid Feed Nozzle | 1 |
| 13 | 11502-12 | Relief Valve (Adel) | 1 | 32 | | Propeller Slinger Ring (Supplied With Propeller) | 1 |
| 14 | 99-53869 | Line - De-Icer Propeller Alcohol Pump To Relief Valve | 1 | | | | |



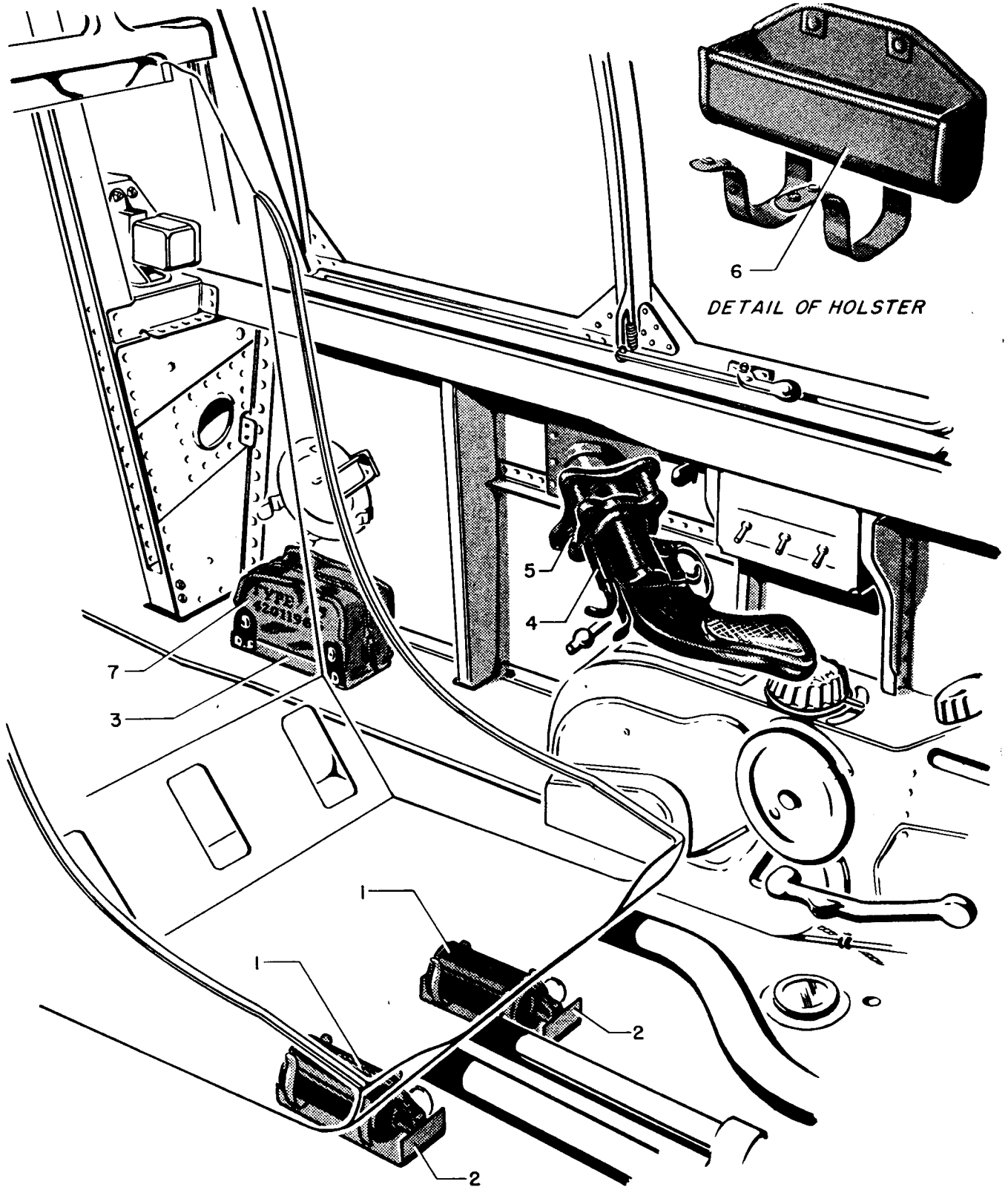
PROPELLER DE-ICING SYSTEM

FIGURE No. 65

PYROTECHNICS

FIGURE No. 66

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|-------------|---|----------|
| 1 | H43B10839 | Incendiary Grenade Pyrotechnics (Government Furnished & Installed) | 2 | 4 | | Pyrotechnic Pistol Type AN-M8 (G.F.E.) | 1 |
| 2 | 99-65040 | Mount Assem. - Incendiary Grenade | 2 | 5 | | Pistol Mount Type - M-1 (G.F.E.) | 1 |
| 3 | 99-65006 | Holder Assem. - Pyrotechnic Pistol & Ammunition | 1 | 6 | | Pistol Holster (G.F.E.) | 1 |
| | | | | 7 | 42G11966 | Cartridge Container (G.F.E.) | 1 |
| | | | | | | Cartridge (Government Furnished And Installed) | 6 |



PYROTECHNICS

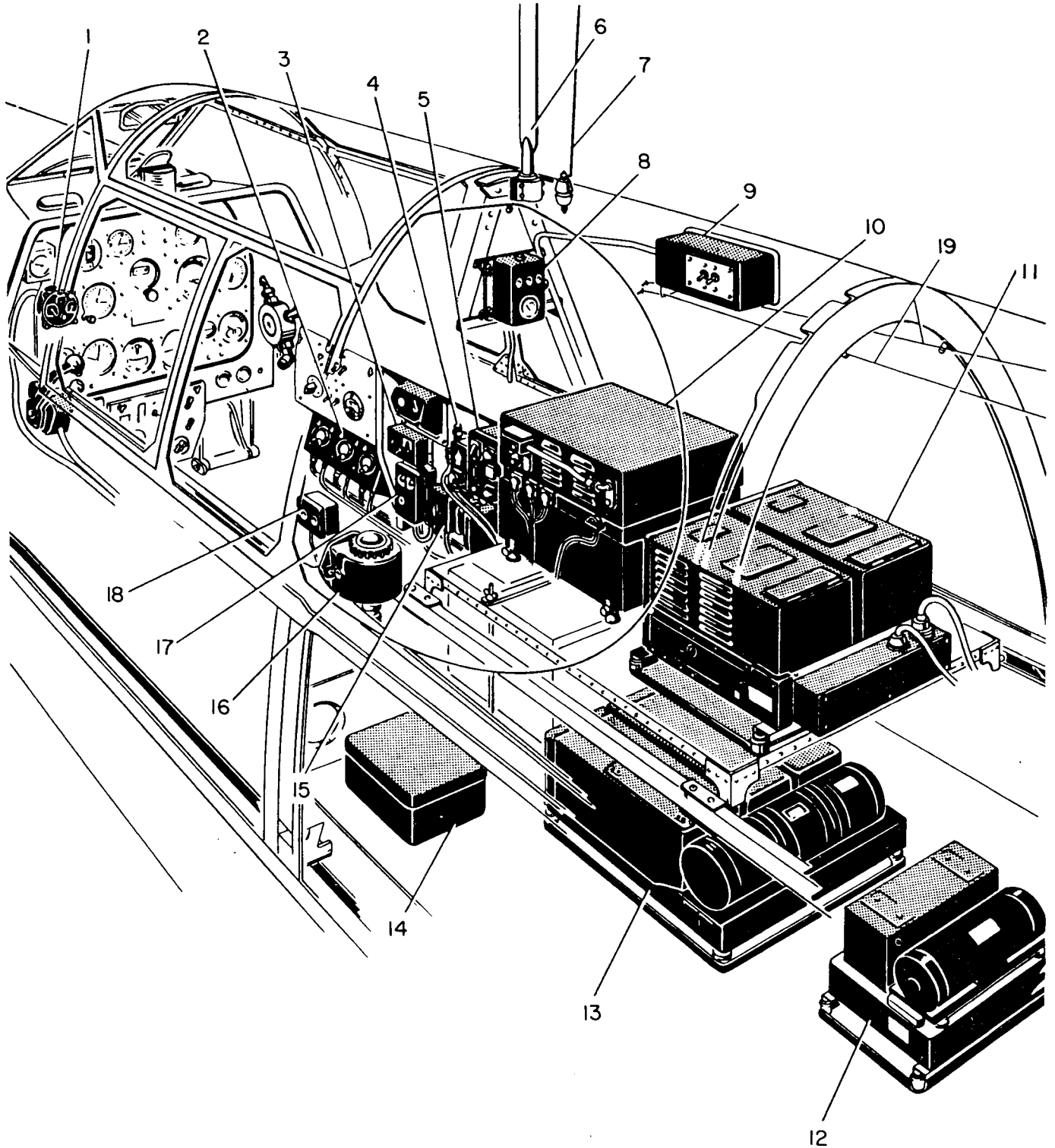
FIGURE No. 66
RESTRICTED

RADIO-SCR-274-N EQUIPMENT

FIGURE No. 67

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---|-------------|-----------------------------|----------|-------------|--------------------------------------|--|----------|
| Note: This Installation Is Used Alternately With SCR-522 Equipment. | | | | 12 | ***BC-456-A | Modulator | 1 |
| 1 | *BC-608-A | Contactors | 1 | ***DM-33-A | Dynamotor | 1 | 1 |
| | *PL-108 | Plug | 1 | ***FT-225-A | Mounting | 1 | 1 |
| 2 | ***BC-450-A | Box - Receiver Control | 1 | *PL-148-A | Plug | 1 | 1 |
| | ***FT-222-A | Mounting | 1 | *PL-151-A | Plug | 1 | 1 |
| | *PL-152-A | Plug | 3 | *PL-153-A | Plug | 1 | 1 |
| | ***MC-212 | Dial (190-550-KC) | 1 | *PL-154-A | Plug | 1 | 1 |
| | ***MC-213 | Dial (3.0-6.0 MC) | 1 | ***VT-135 | Tube | 1 | 1 |
| | ***MC-214 | Dial (6.0-9.1 MC) | 1 | ***VT-136 | Tube | 1 | 1 |
| | *MC-215 | Shaft (59" Long) | 1 | ***VT-139 | Tube | 1 | 1 |
| | *MC-215 | Shaft (62" Long) | 1 | 13 | ***BC-453-A | Receiver (190-550 KC) | 1 |
| | *MC-215 | Shaft (65" Long) | 1 | ***BC-454-A | Receiver (3.0-6.0 MC) | 1 | 1 |
| | *MC-211-A | Coupling | 3 | ***BC-455-A | Receiver (6.0-9.1 MC) | 1 | 1 |
| 3 | ***BC-451-A | Box - Transmitter Control | 1 | ***FT-230-A | Adapter | 3 | 3 |
| | ***FT-228-A | Mounting | 1 | ***DM-32-A | Dynamotor | 3 | 3 |
| | *PL-153-A | Plug | 1 | ***FT-220-A | Rack | 1 | 1 |
| 4 | *PL-55 | Plug | 1 | ***FT-221-A | Mounting | 1 | 1 |
| | *JK-48 | Jack | 1 | *PL-147-A | Plug | 1 | 1 |
| 5 | *BC-965-A | Box - Control | 1 | *PL-151-A | Plug | 1 | 1 |
| | *BC-958-A | Box - Control | 1 | *PL-152-A | Plug | 3 | 3 |
| | *FT-345-A | Mounting | 1 | ***VT-131 | Tube | 9 | 9 |
| | *FT-248-A | Mounting | 1 | ***VT-132 | Tube | 3 | 3 |
| | *CD-675-A | Cordage | 1 | ***VT-133 | Tube | 3 | 3 |
| | *PL-181 | Plug | 1 | ***VT-134 | Tube | 3 | 3 |
| | *PL-182 | Plug | 1 | 14 | 99-71086 | Box - Radio Junction | 1 |
| 6 | 99-71028 | Mast - Antenna | 1 | 15 | ***FL-8-() | Filter | 1 |
| 7 | *W-106A | Wire - Antenna (17 Ft.) | 1 | ***CO-119-A | Cordage (46") | 1 | 1 |
| 8 | ***BC-442-A | Relay - Antenna | 1 | ***JK-26 | Jack | 1 | 1 |
| | ***FT-229-A | Mounting | 1 | 16 | *BC-706 | Switch - Destroyer | 1 |
| | *PL-156-A | Plug | 1 | *PL-190 | Plug | 3 | 3 |
| 9 | 99-71053 | Box - Radio Switch And Fuse | 1 | *M-285 | Clamp - Cable | 1 | 1 |
| 10 | *BC-966-A | Receiver | 1 | 17 | 97-71039 | Box - SCR-535 Or SCR-595 Radio Control | 1 |
| | *FT-247-A | Mounting | 1 | *CD-495 | Connector Cord | 1 | 1 |
| | *PL-177 | Plug | 1 | ***JK-48 | Jack | 1 | 1 |
| | *PL-181 | Plug | 1 | ***CO-219-A | Cordage (54") | 1 | 1 |
| | *PL-182 | Plug | 1 | ***CO-119-A | Cordage (9") | 1 | 1 |
| | *PL-183 | Plug | 1 | 18 | *BC-767 | Indicator | 1 |
| 11 | ***BC-457-A | Transmitter (4.0-5.3 MC) | 1 | *LM-49 | Lamp | 1 | 2 |
| | ***BC-459-A | Transmitter (7.0-9.1 MC) | 1 | 19 | SCR-535-() Radio Antenna Provisions | | |
| | ***BC-458-A | Transmitter (5.3-7.0 MC) | 1 | *PL-176 | Plug | 2 | 2 |
| | ***FT-226-A | Rack | 1 | *IN-81 | Insulator | 8 | 8 |
| | ***FT-227-A | Mounting | 1 | | | | |
| | *PL-154-A | Plug | 1 | | | | |
| | *PL-156-A | Plug | 1 | | | | |
| | ***VT-136 | Tube | 4 | | | | |
| | ***VT-137 | Tube | 2 | | | | |
| | ***VT-138 | Tube | 2 | | | | |
| | *IN-81 | Insulator | 2 | | | | |

* Government Furnished Contractor Installed.
 *** Government Furnished And Installed.
 o BC-459-A And BC-458-A Used Alternately With BC-457-A.



RADIO SCR-274-N EQUIPMENT

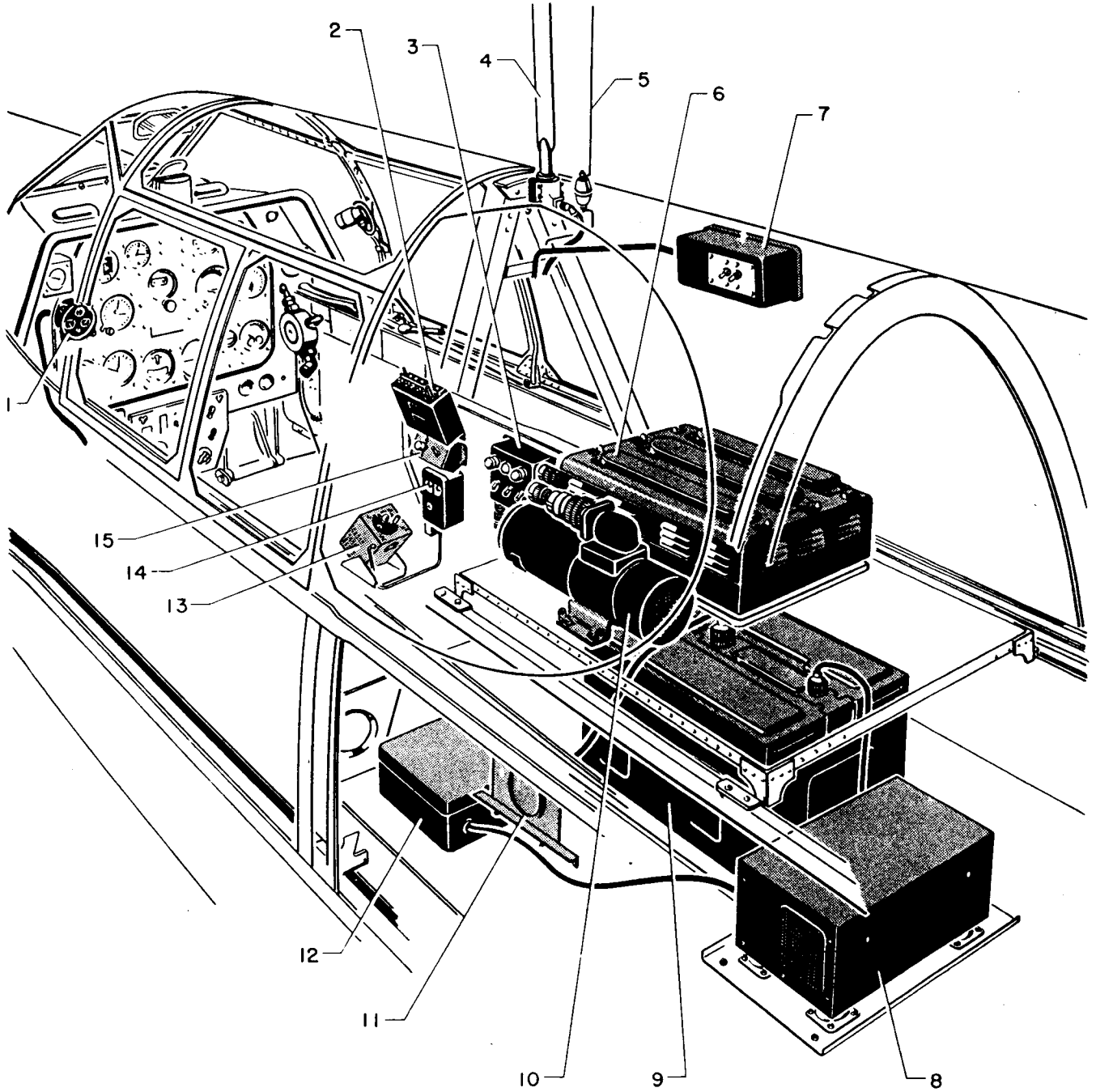
FIGURE No. 67

RADIO-SCR-522 EQUIPMENT

FIGURE No. 68

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---|-------------|--------------------------|----------|---------|-------------|--|----------|
| Note: This Installation Is Used Alternately With SCR-274-N Equipment. | | | | | | | |
| 1 | *BC-608-A | Contactator | 1 | 7 | ***CO-299 | Cordage | 1 |
| | *PL-108 | Plug | 1 | 8 | 99-71053 | Box - Radio Switch And Fuse | 1 |
| 2 | *BC-602-A | Box - Control | 1 | | *PE-94-A | Dynamotor | 1 |
| | *PL-P-169 | Plug | 1 | | *PL-P-169 | Plug | 1 |
| 3 | ***BC-646-A | Box - Control | 1 | 9 | *PL-P-172 | Plug | 1 |
| | ***FT-256-A | Mounting | 1 | | *BC-624-A | Receiver | 1 |
| | ***PL-187 | Plug | 1 | | *BC-625-A | Transmitter | 1 |
| | ***PL-189 | Plug | 1 | | *DC-11A | Crystal Unit | 8 |
| | ***PL-190 | Plug | 1 | | *FT-244-A | Rack | 1 |
| | ***M-287 | Clamp - Cable | 1 | | *CS-80-A | Case | 1 |
| | ***M-285 | Clamp - Cable | 2 | | *PL-P-171 | Plug | 1 |
| | ***CO-215 | Cable | 1 | | *PL-P-170 | Plug | 1 |
| | ***SW-181 | Switch | 1 | 10 | ***PE-101-A | Dynamotor - Coder | 1 |
| 4 | 99-71028 | Mast - Antenna | 1 | | ***FT-251-A | Mounting | 1 |
| 5 | *W-106A | Wire - Antenna (17Ft.) | 1 | | ***PL-188 | Plug | 1 |
| 6 | ***BC-645-A | Transmitter And Receiver | 1 | 11 | ***M-289 | Clamp - Cable | 1 |
| | ***FT-255-A | Mounting | 1 | 12 | ***CO-216 | Cable | 1 |
| | ***PL-184 | Plug | 1 | | 99-71059 | Plate - Connector Panel Mounting | 1 |
| | ***PL-185 | Plug | 1 | 13 | 99-71086 | Box - Radio Junction | 1 |
| | ***PL-187 | Plug | 1 | 14 | *#438 | Receiver - (Detrola) | 1 |
| | ***PL-188 | Plug | 1 | | 97-71039 | Box - SCR-535 Or SCR-595 Radio Control | 1 |
| | ***PL-191 | Plug | 2 | | *CD-495 | Connector Cord | 1 |
| | ***PL-196 | Plug | 1 | | ***JK-48 | Jack | 1 |
| | ***M-286 | Clamp - Cable | 2 | | ***CO-219-A | Cordage (54") | 1 |
| | ***M-287 | Clamp - Cable | 1 | | ***CO-119-A | Cordage (9") | 1 |
| | ***M-288 | Clamp - Cable | 1 | 15 | *SW-180 | Switch | 1 |
| | ***M-289 | Clamp - Cable | 1 | | | | |
| | ***M-267 | Clamp - Cable | 2 | | | | |
| | ***CO-214 | Cordage | 1 | | | | |

* Government Furnished Contractor Installed.
*** Government Furnished And Installed.



RADIO-SCR-522 EQUIPMENT

FIGURE No. 68

AILERON CONTROLS

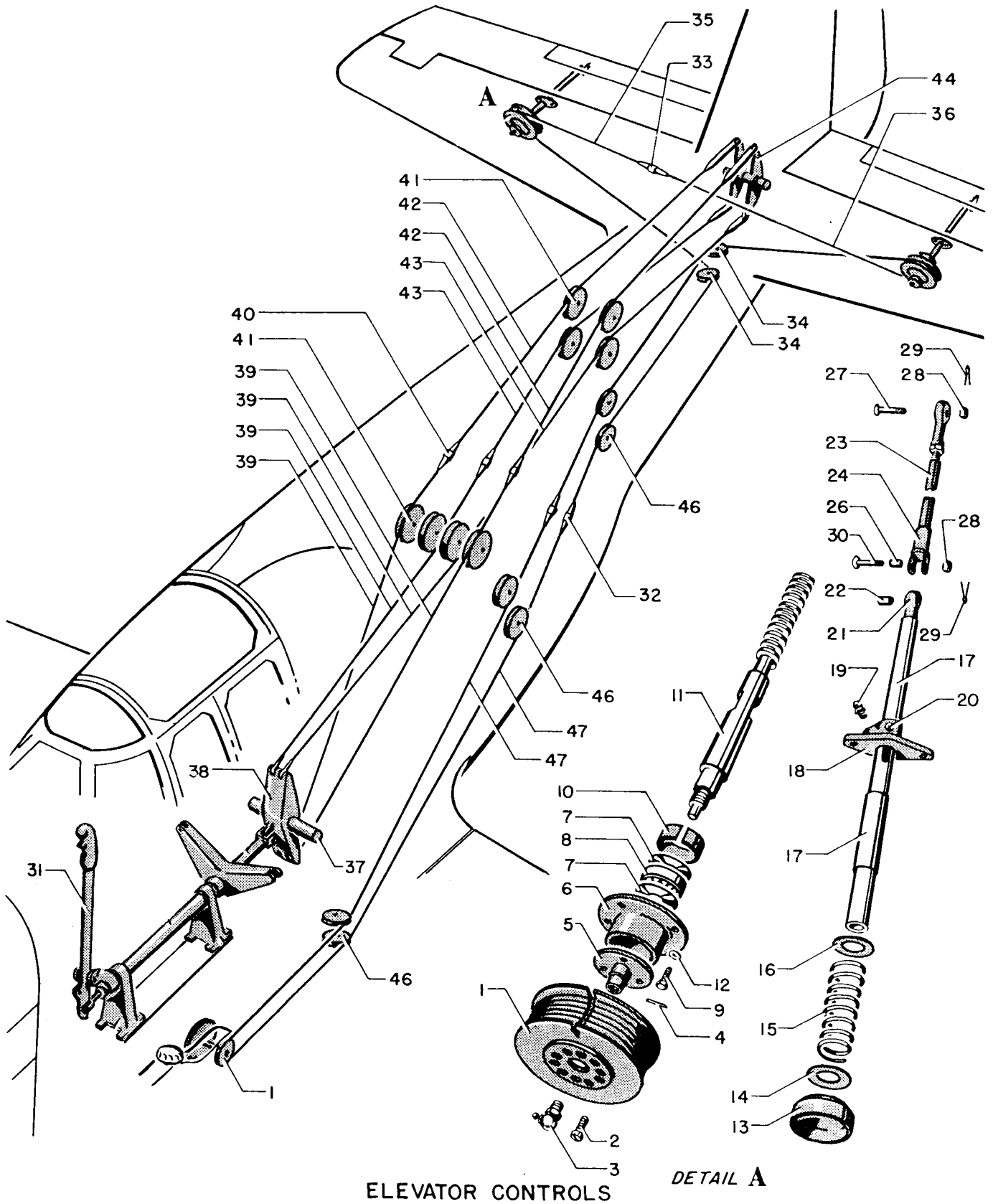
FIGURE No. 69

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|-------------|--|----------|
| 1 | 73-52572 | Housing - Aileron Trim Tab Control Drum | 1 | 29 | 73-52389 | Nut - Aileron Control Sector | 4 |
| 2 | 73-52579 | Bearing - Aileron Trim Control Housing | 1 | 30 | 73-52390 | Washer - Aileron Control Sector | 2 |
| 3 | 73-52580 | Bearing - Aileron Trim Control Housing | 1 | | AN5-16 | Bolt | 2 |
| 4 | 73-52574 | Plate - Aileron Trim Control Housing Lock | 1 | | AN5-17 | Bolt | 2 |
| 5 | 25-52509 | Drum - Trim Tab Operating | 1 | | AN310-5 | Nut | 4 |
| 6 | 73-52573 | Collar - Trim Tab Aileron Control | 1 | | AN380-2-2 | Pin | 4 |
| 7 | B1287-10-10 | Bolt | 3 | 31 | 73-52551 | Cable - Trim Tab Operating | 1 |
| 8 | AC365F-1032 | Nut | 5 | 32 | AN210-1A | Pulley - Trim Tab Operating | 1 |
| 9 | 1703 | Alemite Fitting | 1 | 33 | 25-52509 | Drum - Trim Tab Operating | 1 |
| 10 | B1287-10-12 | Bolt | 2 | 34 | 73-52381 | Arm - Aileron Booster Tab Adjustment | 1 |
| 11 | AN4-10A | Bolt | 2 | 35 | 73-14250 | Fitting - Booster Tab Adjustment Arm | 1 |
| 12 | AN365-428 | Nut | 1 | 36 | AN-14A | Bolt | 2 |
| 13 | 73-52575 | Shaft - Aileron Trim Tab Control Rod | 1 | 37 | AN310-3 | Nut | 1 |
| 14 | 73-52584 | Control-Aileron Trim Tab Complete | 1 | | AN3-10 | Bolt | 1 |
| 15 | 73-52577 | Rod - Aileron Trim Tab Control | 2 | | 73-52576 | Bushing | 1 |
| 16 | AN155-88 | Turnbuckle Barrel | 2 | | AN380-2-2 | Pin | 1 |
| 17 | #F-140 | Formica Pulley | 1 | 38 | 62-52509-3 | Knob - Aileron Trim Tab Control | 1 |
| 18 | 73-52316 | Pulley - Aileron Control Outboard | 2 | 39 | 97-52567 | Support - Aileron Trim Tab Control Upper | 1 |
| 19 | 73-52317 | Fork - Aileron Control | 2 | 40 | 97-52568 | Shaft - Aileron Trim Tab Control Front | 1 |
| 20 | 73-52384 | Cable - Aileron Control Outboard | 2 | 41 | 34-48100 | Joint - Fuel Cock Control Universal | 4 |
| 21 | 73-52550 | Cable - Trim Tab Operating | 1 | | 97-52552 | Plug - Aileron Trim Tab Control Shaft | 1 |
| 22 | AN155-323 | Turnbuckle Barrel | 4 | | 97-52562 | Shaft - Aileron Trim Tab Control Center | 1 |
| 23 | AN210-3A | Pulley | 4 | 42 | 97-52556 | Support - Aileron Trim Tab Control Lower Pinion | 1 |
| 24 | 73-52383 | Cable - Aileron Control Inboard | 2 | 43 | 73-52569 | Shaft - Aileron Trim Tab Control Intermediate | 1 |
| 25 | 73-52393 | Cable & Drum - Aileron Control Inboard Complete L.H. | 1 | 44 | 73-525117-2 | Tube - Aileron Trim Tab Control | 1 |
| 26 | 73-52393-1 | Cable & Drum - Aileron Control Inboard Complete R.H. | 1 | 45 | 73-52599 | Shaft - Aileron Trim Tab Drum Support | 1 |
| 27 | 102-52364 | Link - Aileron Torque Tube Arm To Sector Connecting | 2 | 46 | 97-52111 | Stick Assem. - Pilot's Control (See Fig. No. 71) | 1 |
| 28 | 73-52351 | Sector - Aileron Control Cable L.H. | 1 | | | | |
| | 73-52351-1 | Sector - Aileron Control Cable R.H. | 1 | | | | |

ELEVATOR CONTROLS

FIGURE No. 70

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------------|--|----------|---------|-------------------|---|----------|
| 1 | 25-52509 | Drum - Trim Tab Operating | 3 | 22 | B-47XP | Needle Bearing | 2 |
| 2 | AN502-10-6 | Screw | 6 | 23 | 99-52526-2 | Link - Elevator & Rudder Trim Tab Push | 2 |
| 3 | AN286-5 | Lubricator | 2 | | | | |
| 4 | 62-52541-2 | Drill Rod - 1/16 Diameter | 2 | 24 | AN23-17 | Clevis Bolt | 2 |
| 5 | 62-52543 | Flange - Trim Tab Drum Attaching | 2 | 25 | B985-13-20- 40 | Washer | 4 |
| 6 | 62-52549 | Retainer - Trim Tab Bearing | 2 | 26 | 73-52535 | Bushing - Trim Tab & Fuselage Rod Needle Bearing | 2 |
| 7 | 62-52548 | Washer - Trim Tab Bearing Shielding | 4 | | | | |
| 8 | 200S | Bearing - (Fafnir Or Equiv.) | 2 | 27 | AN23-17 | Bolt | 2 |
| 9 | AN3-5A | Bolt | 8 | 28 | AN320-3 | Nut | 4 |
| 10 | 62-52544 | Collar - Trim Tab Adjusting | 2 | 29 | AN380-2-2 | Pin | 4 |
| 11 | 62-52542 | Screw - Trim Tab Adjusting | 2 | 30 | AN23-15 | Bolt | 2 |
| 12 | AN960-10 | Washer | 8 | 31 | 97-52102 | Stick - Elevator Control (See Fig. No. 71) | |
| 13 | 83-525131 | Cup - Trim Tab Push Rod Spring Retaining | 2 | 32 | AN155-83 | Barrel | 2 |
| 14 | B985-45-36- 31 | Washer - Plain | 2 | 33 | 037994 | Barrel | 1 |
| 15 | 83-525132 | Spring - Trim Tab Push Rod | 2 | 34 | AN210-2A | Pulley | 2 |
| 16 | B985-45-36- 62 | Washer - Plain | 2 | 35 | 83-52547 | Cable - Right Rear Trim Tab | 1 |
| 17 | 73-525124 | Rod - Elevator & Rudder Trim Tab Push | 2 | 36 | 83-52534 | Cable - Left Rear Trim Tab | 1 |
| 18 | 73-525123 | Guide - Elevator & Rudder Trim Tab Push Rod | 2 | 37 | 73-52609 | Tube - Elevator Torque | 1 |
| | AN3-7A | Bolt | 4 | 38 | 73-52217 | Bellcrank - Elevator Control | 1 |
| | AN960-10 | Washer | 4 | 39 | 73-52211 | Cable - Forward Elevator | 4 |
| | AN960-10L | Washer | 4 | 40 | AN155-328 | Barrel | 4 |
| 19 | #1641 | Fitting (Alemite) | 2 | 41 | AN210-3A | Pulley | 8 |
| 20 | AN23-21 | Bolt | 2 | 42 | 99-52209 | Cable - Elevator Upper Rear | 2 |
| | AN320-3 | Nut | 2 | 43 | 99-52210 | Cable - Elevator Lower Rear | 2 |
| | AN380-2-2 | Pin | 2 | 44 | 73-52223 | Horn - Elevator Left | 1 |
| 21 | 73-52528 | Fitting - Trim Tab Push Rod Rear | 2 | 45 | 73-52224 | Horn - Elevator Right | 1 |
| | | | | 46 | 73-52553 | Control - Elevator Trim Tab | 1 |
| | | | | 47 | 73-52558 | Shaft - Elevator Control To Drum | 1 |
| | | | | | AN210-1A | Pulley | 4 |
| | | | | | 83-52546 | Cable - Elevator Trim Tab Front | 1 |



ELEVATOR CONTROLS

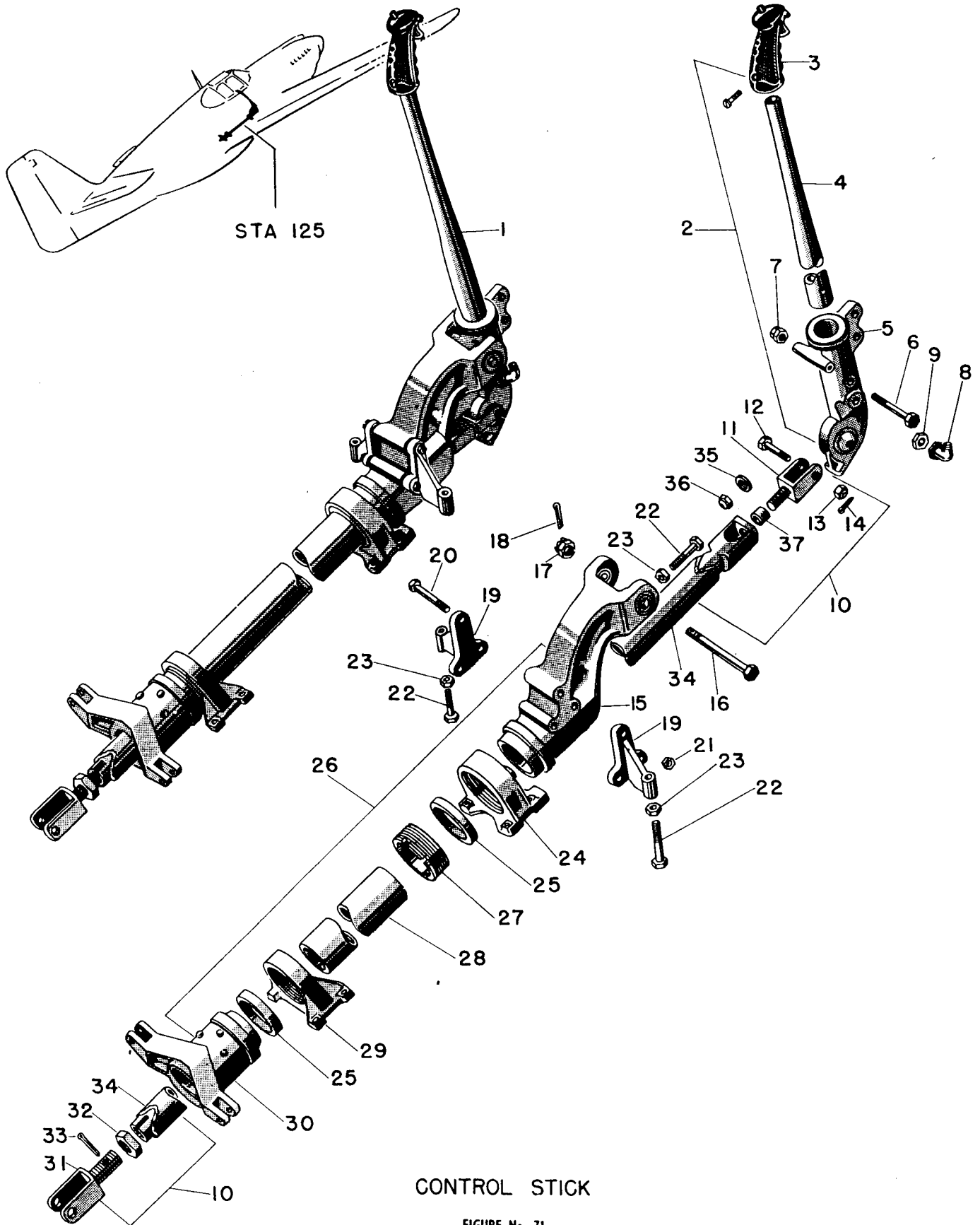
DETAIL A

FIGURE No. 70

CONTROL STICK

FIGURE No. 71

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---------------------------------------|----------|---------|---------------|--------------------------------------|----------|
| 1 | 97-52111 | Stick Assem. - Pilot Control Complete | 1 | 19 | 73-52107 | Stop - Fitting Control | 2 |
| | AN4-7A | Bolt | 8 | 20 | AN4-31A | Bolt | 3 |
| | AN960-416 | Washer | 8 | 21 | AC365-428 | Nut | 3 |
| 2 | 97-52102 | Stick Assem. - Pilot Control | 1 | 22 | B1175-11 | Bolt | 3 |
| 3 | 41B8946 | Grip - Switch And Control | 1 | 23 | AN316-5R | Nut | 3 |
| 4 | 19-52113-2 | Stick - Control | 1 | 24 | 73-52126 | Support - Aileron Torque Tube Front | 1 |
| 5 | 97-52105 | Socket - Control Stick | 1 | 25 | K37B | Bearing (Fafnir) | 2 |
| | DS-5 | Bearing (Norma-Hoffman) | 1 | 26 | 97-52112 | Tube Assem. - Aileron Torque | 1 |
| 6 | AN4-23A | Bolt | 1 | 27 | 73-52153 | Retainer - Front Bearing | 1 |
| 7 | AC365-428 | Nut | 1 | 28 | 97-52112-2 | Tube - Aileron Torque | 1 |
| 8 | 21-0376 | Elbow | 1 | 29 | 73-52143 | Bracket - Aileron Torque Tube Rear | 1 |
| 9 | 6-0312 | Locknut | 1 | 30 | 97-52144 | Fitting - Aileron Torque Tube Rear | 1 |
| 10 | 73-52146 | Tube Assem. - Elevator Control | 1 | 31 | 73-52148 | Clevis - Fixed | 1 |
| 11 | 73-52147 | Clevis - Adjustment | 1 | 32 | AN316-AR | Nut | 1 |
| 12 | AN5-14 | Bolt | 1 | 33 | AN380C3-4 | Pin - Cotter | 1 |
| 13 | AN310-5 | Nut | 1 | 34 | 73-52146-2 | Tube - Elevator Control | 1 |
| 14 | AN380-2-2 | Cotter | 1 | 35 | B985-20-26-93 | Washer | 1 |
| 15 | 88-52105 | Fitting - Control Torque Tube | 1 | 36 | AN310-5 | Nut | 1 |
| | AN200K5 | Bearing - Control Torque Tube | 2 | 37 | 73-52225 | Bushing - Elevator Torque Tube Front | 2 |
| 16 | AN5-35 | Bolt | 1 | | | | |
| 17 | AN310-5 | Nut | 1 | | | | |
| 18 | AN380-2-2 | Cotter | 1 | | | | |



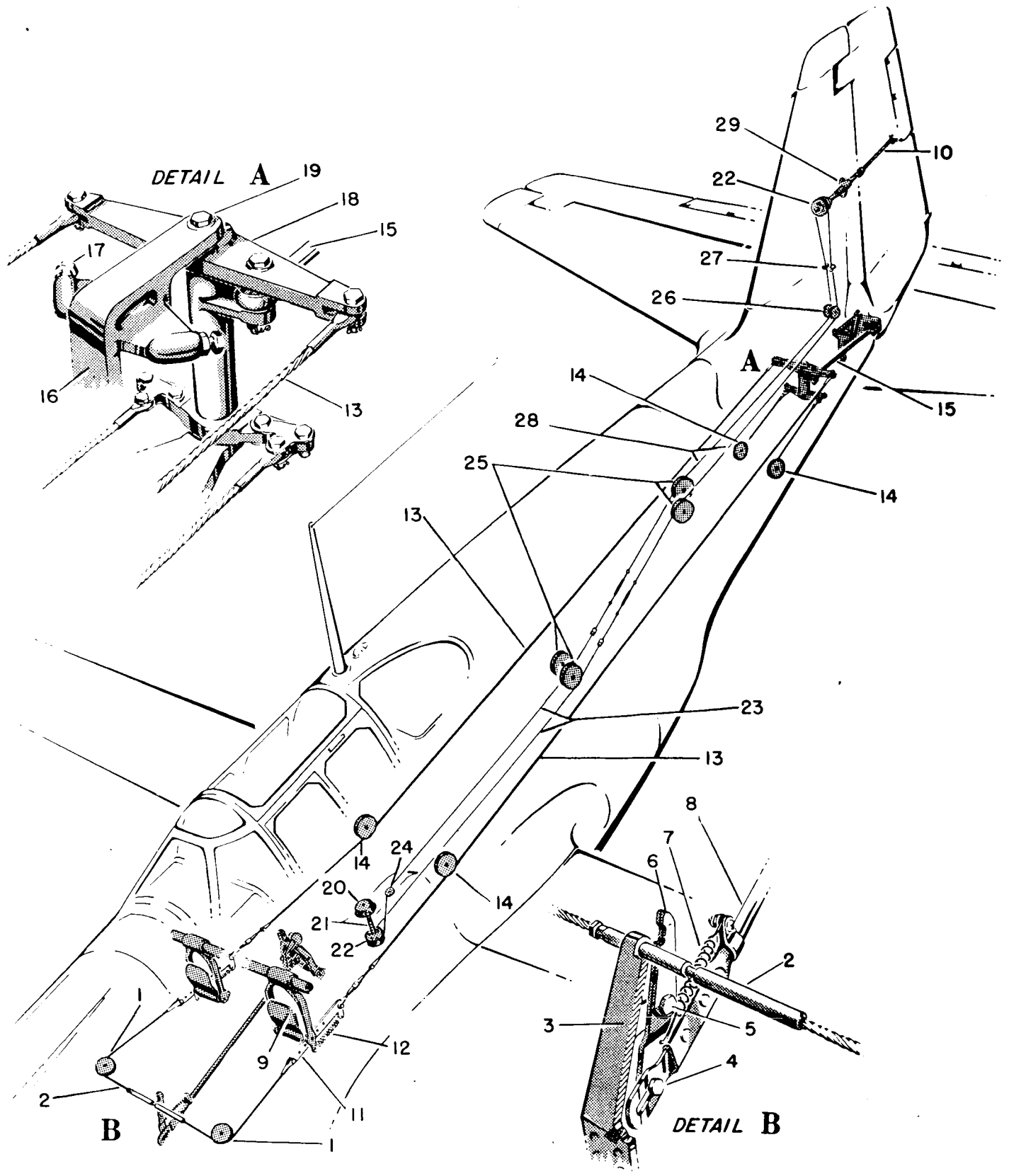
CONTROL STICK

FIGURE No. 71

RUDDER CONTROLS

FIGURE No. 72

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|-------------|--|----------|
| 1 | 73-52442 | Bracket - Pulley L.H. | 1 | | AN4-10 | Bolt | 4 |
| | 73-52442-1 | Bracket - Pulley R.H. | 1 | | AN310-4 | Nut | 4 |
| | AN4-7A | Bolt | 6 | | AN380-2-2 | Pin | 4 |
| | AC365-428 | Nut | 6 | 15 | 73-52419 | Rod - Rudder Control | 1 |
| | AN210-4A | Pulley | 2 | | AN4-22 | Bolt | 1 |
| | AN4-13 | Bolt | 2 | | AN4-13 | Bolt | 1 |
| | AN960-416 | Washer | 8 | | AN310-4 | Nut | 2 |
| | AN310-4 | Nut | 2 | | AN380-2-2 | Pin | 2 |
| | AN580-2-2 | Pin | 2 | 16 | 91-52433 | Support - Rudder Control Bellcrank | 1 |
| 2 | 73-52410 | Cable - Rudder Pedal Return | 1 | | B1174-10 | Bolt | 2 |
| 3 | 73-52425 | Bracket - Rudder Control Lock | 1 | 17 | AN316-4R | Nut | 2 |
| 4 | AN3-5A | Bolt | 1 | | 73-52406 | Bellcrank - Rudder Control | 1 |
| | B1071-6-5 | Spacer | 1 | 18 | AN5-67 | Bolt | 1 |
| | AC365-1032 | Nut | 1 | 19 | AN310-5 | Nut | 1 |
| 5 | AN3-7A | Bolt | 1 | | AN380-2-2 | Pin | 1 |
| | B1009-3-9 | Spacer | 1 | 20 | 62-52509-2 | Knob - Rudder Trim Tab Control | 1 |
| | AC365-1032 | Nut | 1 | 21 | 73-52632 | Shaft - Rudder Trim Tab | 1 |
| 6 | 73-52445 | Lever - Rudder Control Locking | 1 | | 73-52559 | Shaft - Control Drum | 1 |
| 7 | 73-52448 | Spring - Rudder Control Locking | 1 | 22 | 25-52509 | Drum - Rudder Trim Tab Control | 1 |
| 8 | 73-52444 | Rod - Rudder Control Lock | 1 | 23 | 73-52548 | Cable - Rudder Trim Tab Cable Forward | 1 |
| 9 | 99-52403 | Pedal Assem. - Rudder (See Fig. No. 73) | 1 | 24 | AN210-1A | Pulley | 1 |
| 10 | 73-52526-3 | Rod - Rudder Trim Tab | 1 | 25 | AN210-1A | Pulley | 4 |
| 11 | 73-52430 | Plate - Rudder Pedal Adjusting L.H. | 1 | 26 | AN210-2A | Pulley | 2 |
| | 73-52430-1 | Plate - Rudder Pedal Adjusting R.H. | 1 | 27 | 19-34006 | Pulley - Rudder Trim Tab Cable | 2 |
| 12 | 73-52466 | Spring - Rudder Pedal Adjusting | 2 | 28 | 73-52549 | Cable - Rudder Trim Tab Cable Aft | 1 |
| 13 | 73-52413 | Cable - Rudder Control | 2 | 29 | 73-525124 | Rod - Rudder Trim Tab Drum | 1 |
| 14 | AN210-3A | Pulley | 4 | | | | |



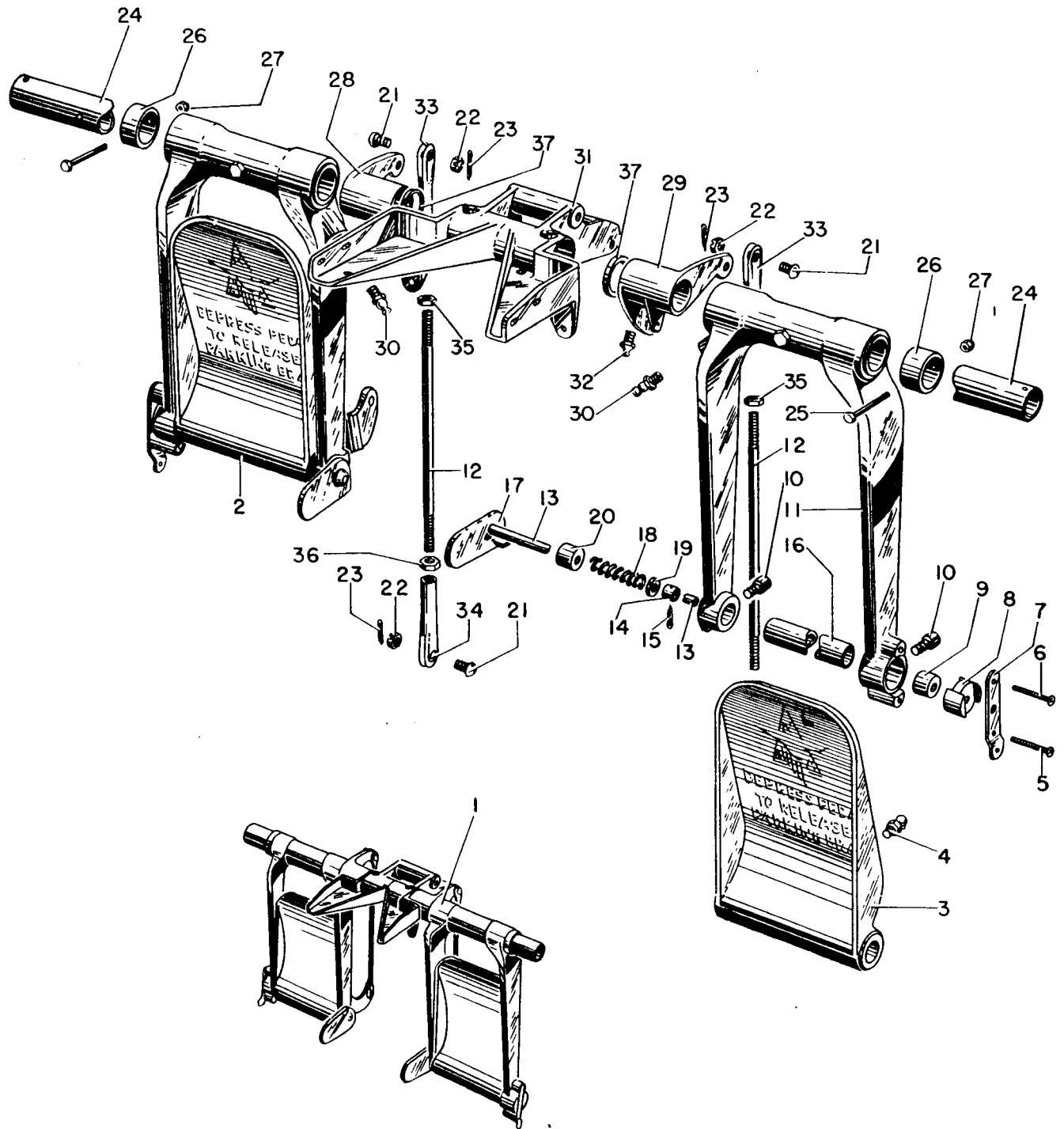
RUDDER CONTROLS

FIGURE No. 72
RESTRICTED

RUDDER PEDAL

FIGURE No. 73

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|---------------|---|----------|---------|---------------|--|----------|
| 1 | 99-52403-2 | Pedal Assem. - Rudder | 1 | | 73-52411 | Lever - Rudder Pedal Adjustment L.H. | 1 |
| | 99-52403 | Pedal Assem. - Rudder Complete (Includes Compensator And Brake Cylinders) | 1 | 18 | 15-52414 | Spring | 2 |
| 2 | 73-52402 | Pedal Assem. - Rudder L.H. | 1 | 19 | AC940-D516 | Washer | 2 |
| | 73-52402-1 | Pedal Assem. - Rudder R.H. | 1 | 20 | 73-52414 | Bearing - Rudder Pedal Plunger | 2 |
| 3 | 73-52405 | Pedal - Rudder R.H. | 1 | 21 | AN24-12 | Bolt | 4 |
| | 15-52415 | Bearing - Brake Pedal | 2 | 22 | AN320-4 | Nut | 4 |
| | 73-52405-1 | Pedal - Rudder L.H. | 1 | 23 | AN380-2-2 | Cotter Pin | 4 |
| | 15-52415 | Bearing - Brake Pedal | 2 | 24 | 73-52415 | Shaft - Rudder Pedal Torque | 1 |
| 4 | AC286-4 | Lubricator | 2 | 25 | AN3-17A | Bolt | 2 |
| 5 | 1289-10-16 | Screw | 2 | 26 | 25-52413 | Collar | 2 |
| 6 | 1289-10-18 | Screw | 2 | 27 | AC365-1032 | Nut | 2 |
| 7 | 73-52437 | Plate | 2 | 28 | 99-33410 | Lever - Rudder Pedal Brake Operating L.H. | 1 |
| 8 | 73-52432 | Guide - Rudder Pedal Adjustment Plate | 2 | 29 | 99-33410-1 | Lever - Rudder Pedal Brake Operating R.H. | 1 |
| 9 | 19-52414 | Bearing | 2 | 30 | AC286-2 | Lubricator | 2 |
| 10 | AC501A-416-10 | Screw | 4 | 31 | 73-52438-2 | Bracket - Instrument Panel Support Bracket | 1 |
| 11 | 73-52404-1 | Fork - Rudder Pedal R.H. | 1 | | | | |
| | 73-52404 | Fork - Rudder Pedal L.H. | 1 | 32 | AC286-1 | Lubricator | 2 |
| 12 | 19-52428 | Rod | 2 | 33 | AN665-34L | Terminal | 2 |
| 13 | 73-52427 | Plunger - Rudder Pedal Adjustment | 2 | 34 | AN665-34R | Terminal | 2 |
| 14 | 19-52436 | Collar | 2 | 35 | AN315-4L | Nut | 2 |
| 15 | AN380-3-3 | Cotter Pin | 2 | 36 | AN315-4R | Nut | 2 |
| 16 | 73-52426 | Tube - Rudder Pedal Pivot | 2 | 37 | B985-81-52-38 | Washer | 2 |
| 17 | 73-52411-1 | Lever - Rudder Pedal Adjustment R.H. | 1 | | | | |



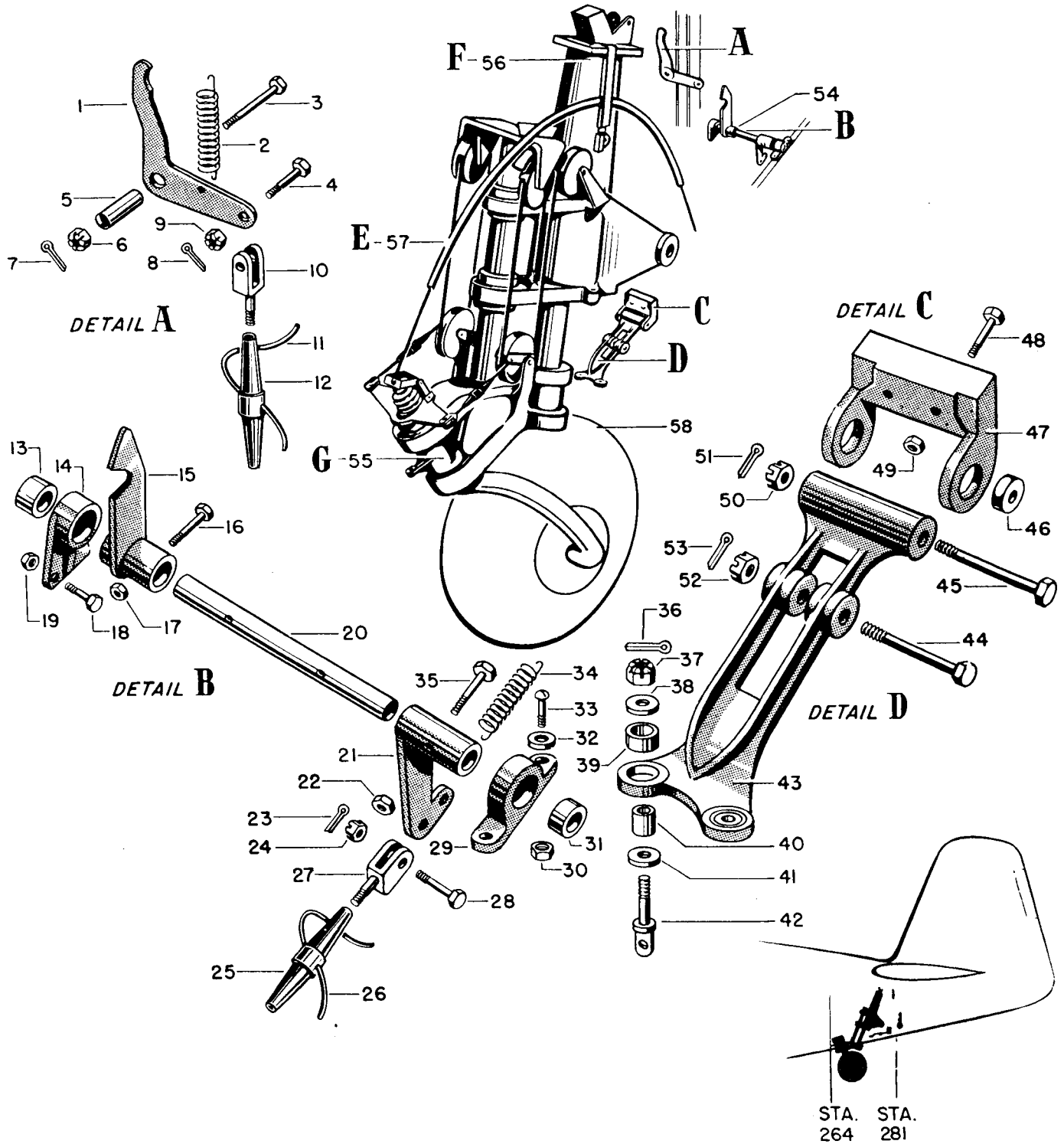
RUDDER PEDALS

FIGURE No. 73

TAIL WHEEL

FIGURE No. 74

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|----------------------|--|----------|
| 1 | 73-34529 | Arm - Tail Wheel Down Position Lock Operating | 1 | 30 | AC365-1032 | Nut | 2 |
| 2 | 73-34537 | Spring - Tail Wheel Down Position Lock Cable Contracting | 1 | 31 | A515-3 | Oilite Bearing | 1 |
| 3 | AN23-27 | Bolt | 1 | 32 | B985-12-20 | Washer | 2 |
| 4 | AN23-9 | Bolt | 1 | 33 | B1286-10-10 | Screw | 2 |
| 5 | B1009-R3-41 | Bushing | 1 | 34 | 73-34528 | Spring - Tail Wheel Retracted Position Lock Operating | 1 |
| 6 | AN320-3 | Nut | 1 | 35 | AN3-11A | Bolt | 1 |
| 7 | AN380-2-2 | Pin | 1 | 36 | AN380-2-2 | Pin | 2 |
| 8 | AN380-2-2 | Pin | 1 | 37 | AN310-3 | Nut | 2 |
| 9 | AN320-3 | Nut | 1 | 38 | B985-12-20-63 | Washer | 2 |
| 10 | AN160-16S | Fork | 1 | 39 | A-507-1 | Bushing | 2 |
| 11 | AN995040-18 | Lockwire | 1 | 40 | B1009-R4-11 | Bushing | 2 |
| 12 | AN155-16S | Barrel | 1 | 41 | B985-12-20-63 | Washer | 2 |
| 13 | A515-3 | Oilite Bearing | 1 | 42 | AN43-7 | Eyebolt | 2 |
| 14 | 73-34512 | Bearing Assem. - Tail Wheel Retracting Position Lock Operating Inboard | 1 | 43 | 97-34502 | Bellcrank Assem. - Tail Wheel Door Operating | 1 |
| 15 | 73-34510 | Hook Assem. - Tail Wheel Retracted Position Locking | 1 | 44 | AN3-15 | Bolt | 1 |
| 16 | AN3-7A | Bolt | 1 | 45 | AN3-27 | Bolt | 1 |
| 17 | AC365-1032 | Nut | 1 | 46 | AN200K3L | Bearing | 2 |
| 18 | B1286-10-8 | Screw | 1 | 47 | 73-34508 | Fitting Assem. - Tail Wheel Door Operating Bellcrank Support | 1 |
| 19 | AC365-1032 | Nut | 1 | 48 | AN4-16A | Bolt | 2 |
| 20 | 73-34526 | Shaft - Tail Wheel Retracted Position Lock Operating | 1 | 49 | AC365-428 | Nut | 2 |
| 21 | 73-34515 | Bellcrank - Tail Wheel Retracted Position Lock Operating | 1 | 50 | AN310-3 | Nut | 1 |
| 22 | AC365-1032 | Nut | 1 | 51 | AN380-2-2 | Pin | 1 |
| 23 | AN380-2-2 | Pin | 1 | 52 | AN310-3 | Nut | 1 |
| 24 | AN320-3 | Nut | 1 | 53 | AN380-2-2 | Pin | 1 |
| 25 | AN155-16S | Barrel | 1 | 54 | 73-34527 | Lock Assem. - Tail Wheel Retracted Position | 1 |
| 26 | AN995040-18 | Lockwire | 1 | 55 | 73-34004 | Housing Assem. - Tail Wheel Spindle (See Fig. No. 76) | 1 |
| 27 | AN160-16S | Fork | 1 | 56 | 91-34102 | Strut Assem. - Tail Wheel Shock (See Fig. No. 75) | 1 |
| 28 | AN23-9 | Bolt | 1 | 57 | | Cable Assem. - (See Fig. No. 75) | 1 |
| 29 | 73-34513 | Bearing Assem. - Tail Wheel Retracted Position Lock Operating Outboard | 1 | 58 | 17-311 Spec.25272 | Tire (G.F.E.) Wheel - Tail (G.F.E.) | 1 |



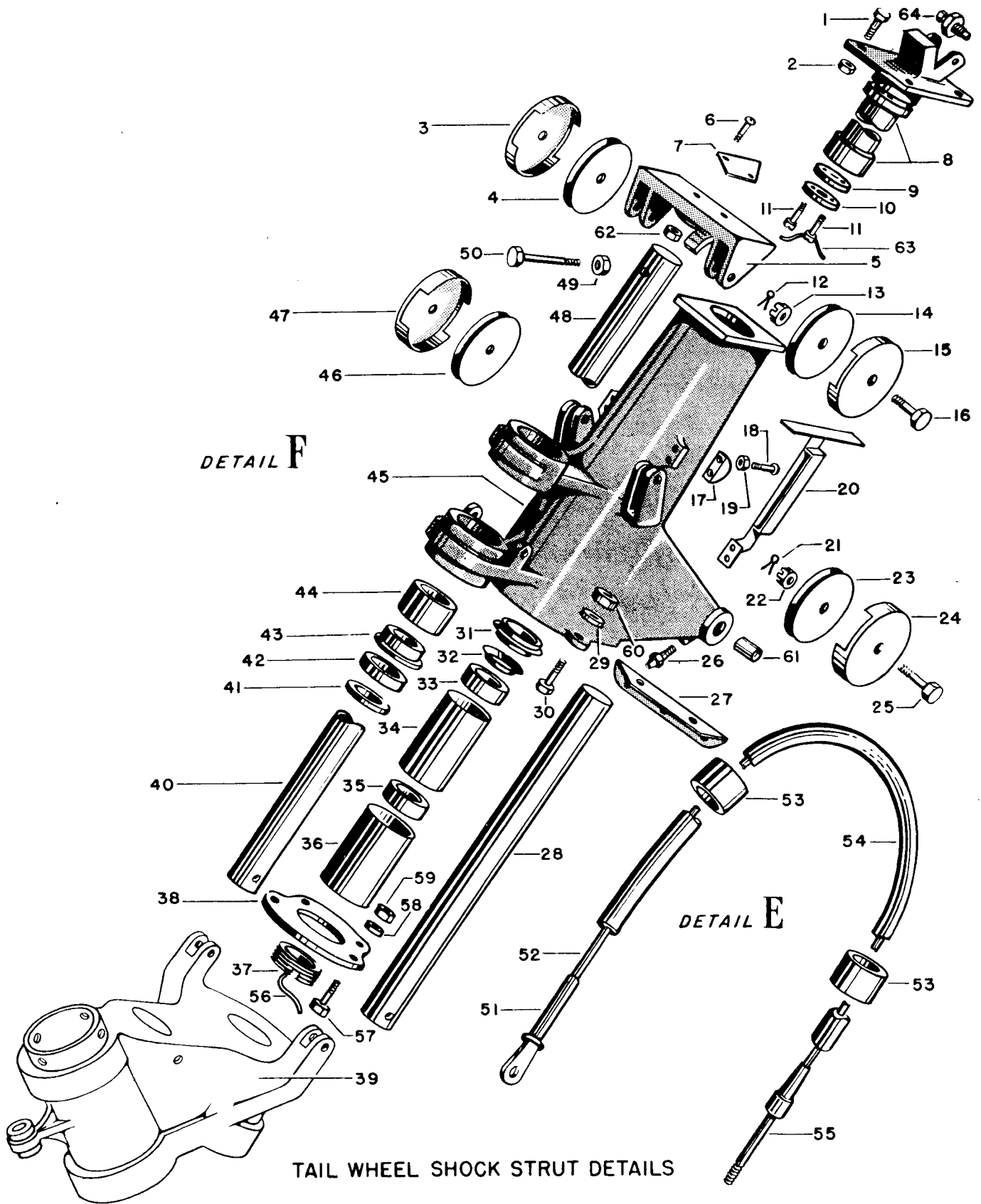
TAIL WHEEL

FIGURE No. 74

TAIL WHEEL SHOCK STRUT DETAILS

FIGURE No. 75

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|---|----------|---------|--------------|---|----------|
| 1 | AN5-11A | Bolt | 3 | 32 | #7815 | Garlock Ring | 5 |
| | B1251-524-17 | Screw | 1 | 33 | 91-34110 | Bearing - Tail Wheel Oleo Piston Tube Upper | 1 |
| 2 | AC365-524 | Nut | 4 | | | | |
| 3 | 73-34182 | Guard Assem. - Tail Wheel Steering Cable Center Pulley | 1 | 34 | 91-34107 | Spacer - Tail Wheel Oleo Stop | 1 |
| 4 | AN210-4A | Pulley | 1 | 35 | 91-34108 | Bearing - Tail Wheel Oleo Piston Tube Lower | 1 |
| 5 | 97-34191 | Bracket - Tail Wheel Steering Torque Tube Pulley | 1 | 36 | 91-34131 | Guide - Tail Wheel Oleo Packing | 1 |
| 6 | B1251-1032-9 | Screw | 2 | 37 | 91-34130 | Screw - Tail Wheel Oleo Packing Adjusting | 1 |
| 7 | 73-341109 | Indicator - Tail Wheel Strut Pressure | 1 | 38 | 91-34113 | Retainer - Tail Wheel Oleo Piston Tube Bearing Lower | 1 |
| 8 | 91-34105 | Plunger Assem. - Tail Wheel Shock Strut Cap | 1 | 39 | 73-34004 | Housing Assem. - Tail Wheel Spindle (See Fig. No. 76) | 1 |
| 9 | 91-34106 | Plats - Tail Wheel Shock Strut Orifice | 5 | 40 | 73-34146 | Tube - Tail Wheel Oleo Torque | 1 |
| 10 | 91-34116 | Spacer - Tail Wheel Shock Strut Orifice Plate | 5 | 41 | B1382-7 | Snap Ring | 4 |
| | | | | 42 | #398H | Garlock "Klozure" Seal | 4 |
| 11 | AN502-10-14 | Screw | 2 | 43 | 73-34151 | Bushing - Tail Wheel Oleo Torque Tube | 2 |
| 12 | AN380-2-2 | Pin | 2 | | | | |
| 13 | AN310-4 | Nut | 4 | 44 | 73-34133 | Insert Assem. - Tail Wheel Oleo Torque Tube Bearing | 2 |
| 14 | AN210-4A | Pulley | 1 | 45 | 91-34003 | Housing Assem. - Tail Wheel Oleo Pulley | 1 |
| 15 | 73-34182 | Guard Assem. - Tail Wheel Steering Cable Center Pulley | 1 | 46 | AN210-4A | Pulley | 1 |
| 16 | AN4-13 | Bolt | 2 | 47 | 73-341106 | Guard - Tail Wheel Steering Cable Upper Pulley | 1 |
| 17 | 73-34190 | Guide - Tail Wheel Steering Cable | 2 | 48 | 73-34146 | Tube - Tail Wheel Oleo Torque | 1 |
| 18 | AN502-10-14 | Screw | 4 | 49 | AC365-428 | Nut | 1 |
| 19 | AC365-1032 | Nut | 4 | 50 | AN4-21 | Bolt | 1 |
| 20 | 91-34180 | Strip Assem. - Tail Wheel Declutching Cable Rubbing | 1 | 51 | AN667-2 | Terminal | 1 |
| 21 | AN380-2-2 | Pin | 2 | 52 | 97-34192-2 | Cable - Tail Wheel Declutching Rear | 1 |
| 22 | AN310-4 | Nut | 2 | 53 | B1009-4-12 | Bushing | 2 |
| 23 | AN210-4A | Pulley | 1 | 54 | #3500 | Casing (Shakespeare) | 1 |
| 24 | 73-341106 | Guard - Tail Wheel Steering Cable Upper Pulley | 1 | 55 | AN662-2 | Terminal | 1 |
| 25 | AN4-14 | Bolt | 2 | 56 | AC995C72-14 | Lockwire | 1 |
| 26 | AN286-1 | Lubricator | 2 | 57 | B1289-416-16 | Screw | 2 |
| 27 | 91-34015 | Angle Assem. - Tail Wheel Hatch Cover To Oleo Attaching | 1 | 58 | AN960-416 | Washer | 2 |
| 28 | 73-34112 | Tube Assem. - Tail Wheel Shock Strut Piston | 1 | 59 | AN365-428 | Nut | 2 |
| | | | | 60 | AN365-428 | Nut | 2 |
| 29 | AN960-416 | Washer | 2 | 61 | B1061-18 | Bushing | 4 |
| 30 | AN4-11A | Bolt | 2 | 62 | AC365-1032 | Nut | 2 |
| 31 | 73-34159 | Ring - Tail Wheel Strut Packing Retainer | 1 | 63 | AC995C40-4 | Lockwire | 1 |
| | | | | 64 | AN812-1 | Valve Body | 1 |
| | | | | | AN809-1 | Core | 1 |
| | | | | | AN813-1 | Cap | 1 |
| | | | | | AN901-5 | Gasket | 1 |



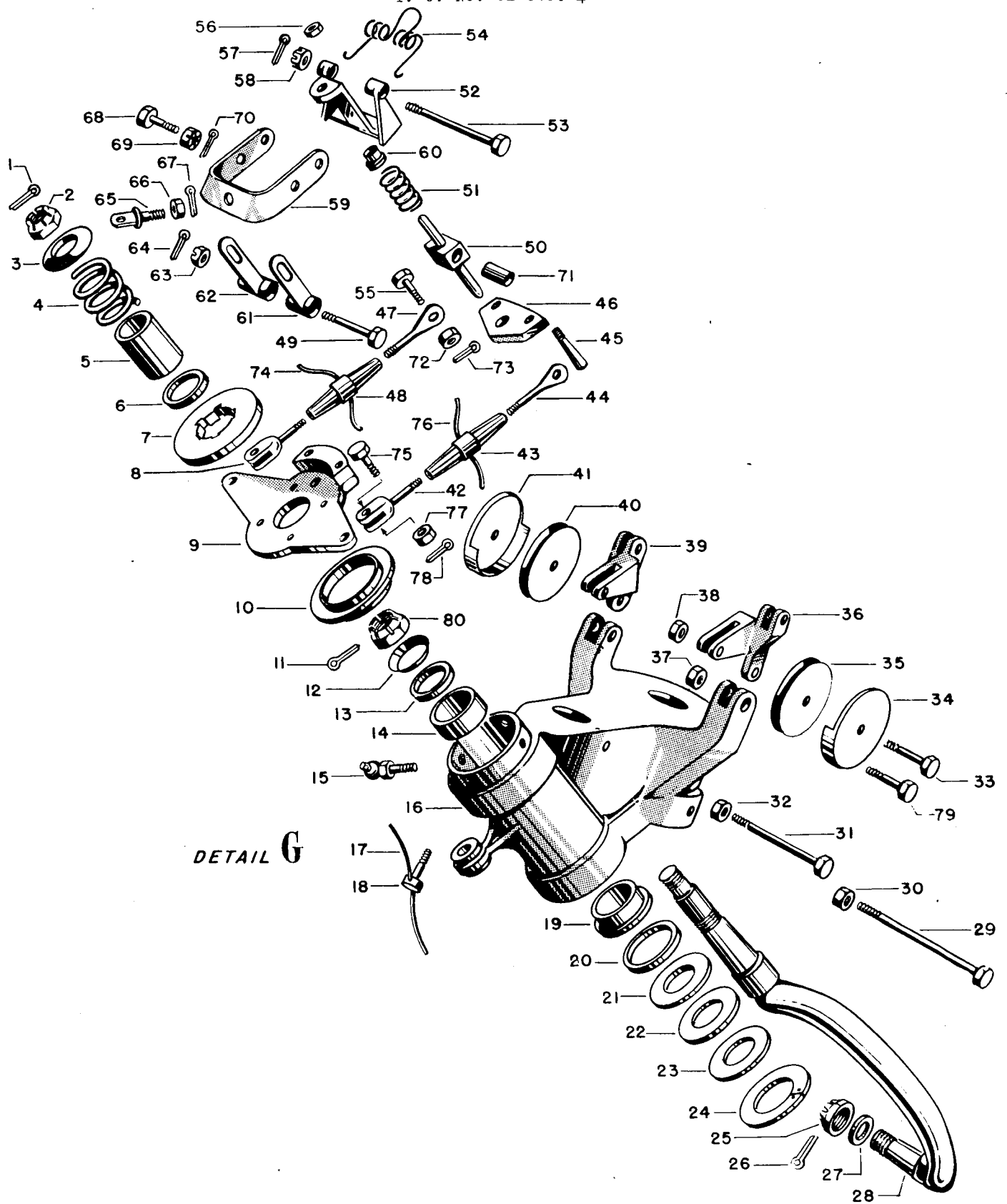
TAIL WHEEL SHOCK STRUT DETAILS

FIGURE No. 75

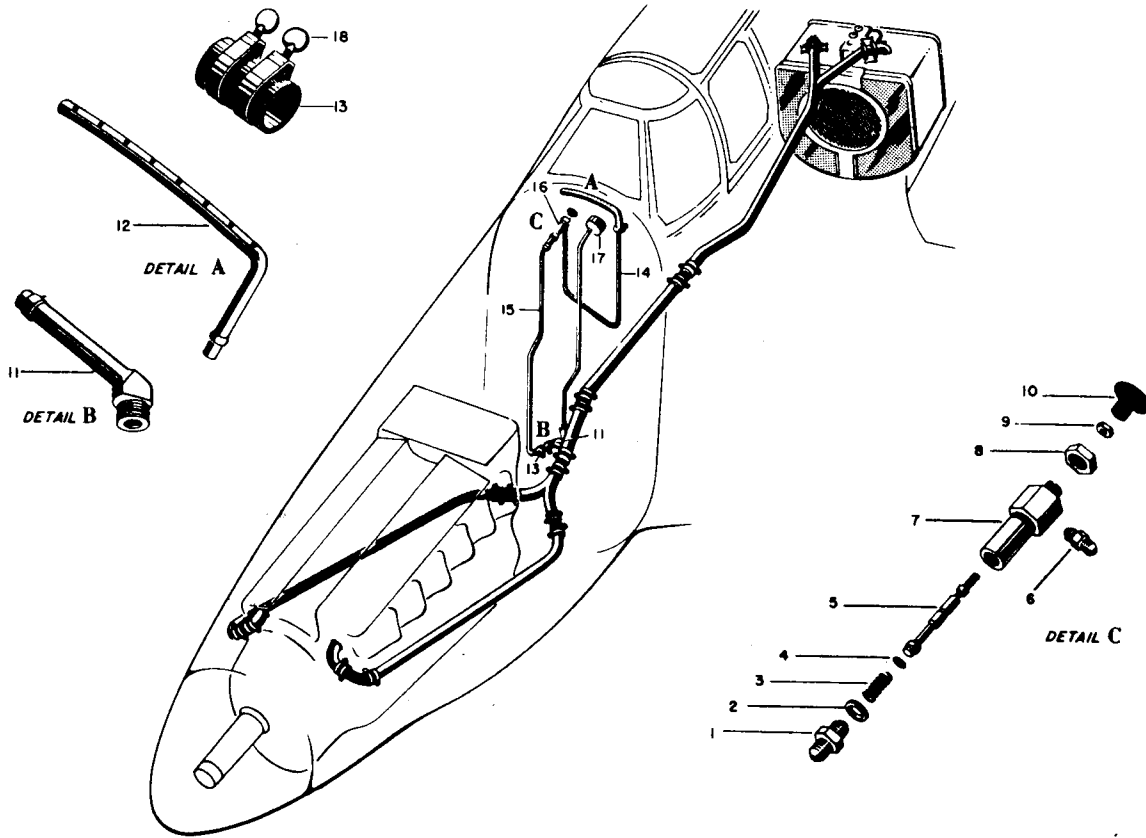
TAIL WHEEL SHOCK AND STEERING DETAILS

FIGURE No. 76

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|------------------|---|----------|---------|-------------|--|----------|
| 1 | AN380-4-5 | Pin | 1 | 40 | AN210-4A | Pulley | 1 |
| 2 | AN320-12 | Nut | 1 | 41 | 73-341104-1 | Guard - Tail Wheel Steering Cable | 1 |
| 3 | 35A231 | Washer | 1 | | | Lower Pulley R.H. | 1 |
| 4 | 97-34125 | Spring - Tail Wheel Knuckle | 1 | 42 | 73-34160 | Fork - Tail Wheel Steering Knuckle | 1 |
| 5 | 97-34134 | Spacer - Tail Wheel Steering Mast Retainer | 1 | 43 | AN155-32L | Barrel | 1 |
| 6 | B985AL-65-46-129 | Washer | 1 | 44 | AN170-32LS | Eye | 1 |
| 7 | 97-34174 | Plate - Tail Wheel Spindle To Mast Locking | 1 | 45 | AC386-2-9 | Taper Pin | 2 |
| 8 | 73-34160 | Fork - Tail Wheel Steering Turnbuckle | 2 | 46 | 97-34173 | Housing - Tail Wheel Spindle Lock Pin | 1 |
| 9 | 97-34120 | Mast Assem. - Tail Wheel Steering | 1 | 47 | AN170-32LS | Eye | 1 |
| 10 | 97-34119 | Cap - Steerable Tail Wheel Post Bearing Housing | 1 | 48 | AN155-32L | Barrel | 1 |
| 11 | AN380-4-7 | Pin | 1 | 49 | AN23-10 | Clevis Bolt | 2 |
| 12 | 35A232 | Washer | 1 | 50 | 97-34123 | Pin Assem. - Tail Wheel Spindle Lock | 1 |
| 13 | 35A239-1 | Washer | 1 | 51 | 97-34124 | Spring - Tail Wheel Spindle Lock Pin Impeller | 1 |
| 14 | 73-34145 | Bushing - Tail Wheel Spindle Housing Upper | 1 | 52 | 97-34172 | Retainer Assem. - Tail Wheel Spindle Lock Pin | 1 |
| 15 | AN286-3 | Lubricator | 2 | 53 | AN3-30 | Bolt | 1 |
| 16 | 73-34004 | Housing Assem. - Tail Wheel Spindle | 1 | 54 | 97-34126 | Spring - Tail Wheel Declutching Bellcrank Return | 1 |
| 17 | AC995-32-14 | Lockwire | 1 | 55 | AN24-12 | Bolt | 2 |
| 18 | AC502-10-4 | Screw | 4 | 56 | AN320-3 | Nut | 2 |
| 19 | 73-34144 | Bushing - Tail Wheel Spindle Housing Lower | 1 | 57 | AN380-2-2 | Pin | 1 |
| 20 | 73-34147 | Washer - Tail Wheel Spindle Housing | 1 | 58 | AN310-3 | Nut | 1 |
| 21 | 35A236-3 | Ring | 2 | 59 | 97-34168 | Bellcrank Assem. - Tail Wheel Declutching | 1 |
| 22 | 35A235-3 | Washer | 1 | 60 | F-312 | Oilite Bearing | 1 |
| 23 | 35A236-3 | Ring | 1 | 61 | 97-34179 | Link Assem. - Tail Wheel Declutching | 1 |
| 24 | 35A237-3 | Ring | 1 | 62 | 97-34179 | Link Assem. - Tail Wheel Declutching | 1 |
| 25 | 35B416-1 | Nut | 1 | 63 | AN320-3 | Nut | 2 |
| 26 | AN380-4-7 | Pin | 1 | 64 | AN380-2-2 | Pin | 2 |
| 27 | 35A239-2 | Washer | 1 | 65 | AN42-4 | Eyebolt | 1 |
| 28 | 38G509-110 | Knuckle | 1 | 66 | AN320-3 | Nut | 1 |
| 29 | AN4-33A | Bolt | 1 | 67 | AN380-2-2 | Pin | 1 |
| 30 | AC365-428 | Nut | 1 | 68 | AN23-10 | Clevis Bolt | 2 |
| 31 | AN7-40A | Bolt | 1 | 69 | AN320-3 | Nut | 2 |
| 32 | AC365-720 | Nut | 1 | 70 | AN380-2-2 | Pin | 2 |
| 33 | B1248-428-22 | Screw | 2 | 71 | A313-2 | Oilite Bushing | 1 |
| 34 | 73-341104 | Guard - Tail Wheel Steering Cable Lower Pulley L.H. | 1 | 72 | AN310-4 | Nut | 2 |
| 35 | AN210-4A | Pulley | 1 | 73 | AN380-2-2 | Pin | 4 |
| 36 | 73-34189 | Bellcrank Assem. - Tail Wheel Steering Pulley | 1 | 74 | AC995C40-24 | Lockwire | 1 |
| 37 | AN310-4 | Nut | 2 | 75 | AN24-16 | Bolt | 2 |
| 38 | AN380-4 | Nut | 2 | 76 | AC995C+0-24 | Lockwire | 1 |
| 39 | 73-34189-1 | Bellcrank Assem. - Tail Wheel Steering Pulley | 1 | 77 | AN320-4 | Nut | 2 |
| | | | | 78 | AN380-2-2 | Pin | 2 |
| | | | | 79 | AN4-17 | Bolt | 2 |
| | | | | 80 | 35B416-3 | Nut | 1 |



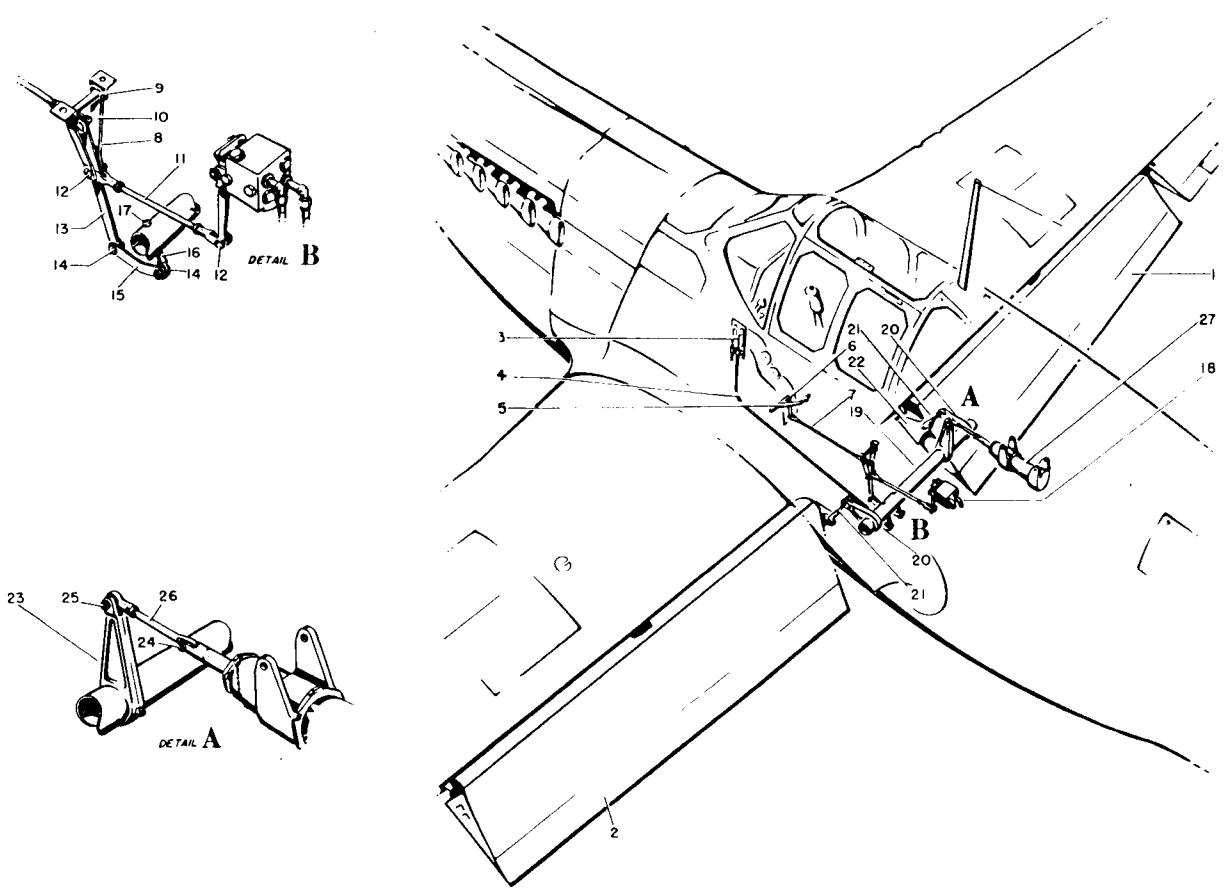
TAIL WHEEL SHOCK AND STEERING DETAILS



WINDSHIELD DE-ICER SYSTEM

FIGURE No. 77

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|---|----------|---------|-------------|--|----------|
| 1 | 3175-3-4D | Union - De-Icer Control Valve | 1 | 11 | 91-53130 | Fitting - Windshield De-Icer Restrictor | 1 |
| 2 | 3175-2-4 | Washer - De-Icer Control Valve | 1 | 12 | 73-53108 | Jet - Windshield De-Icer | 1 |
| 3 | 73-58216 | Spring - De-Icer Control Valve | 1 | 13 | AC882-4-10 | Hose - De-Icer Line Connecting | 1 |
| 4 | AN6227-1 | Ring - De-Icer Control Valve | 1 | 14 | 97-53812 | Line - De-Icer System Control Valve To Jet | 1 |
| 5 | 91-53127 | Valve - De-Icer Control | 1 | 15 | 97-53811 | Line - Thermometer Well To Control Valve | 1 |
| 6 | AC811-FT-4 | Fitting - De-Icer Control Valve | 1 | 16 | 91-53125 | Valve - Windshield De-Icer Control | 1 |
| 7 | 91-53126 | Body - Windshield De-Icer Control Valve | 1 | 17 | Spec. | | |
| 8 | 11-1039-1-5D | Locknut - De-Icer Control Valve | 1 | 18 | 94-27947 | Coolant Thermometer Gage | 1 |
| 9 | AN340DD10 | Nut - De-Icer Control Valve | 1 | | FB-10 | Clamp - Hose (Wittek) | 1 |
| 10 | 1101-B | Knob - Windshield De-Icer Control Valve | 1 | | | | |



WING FLAP CONTROL

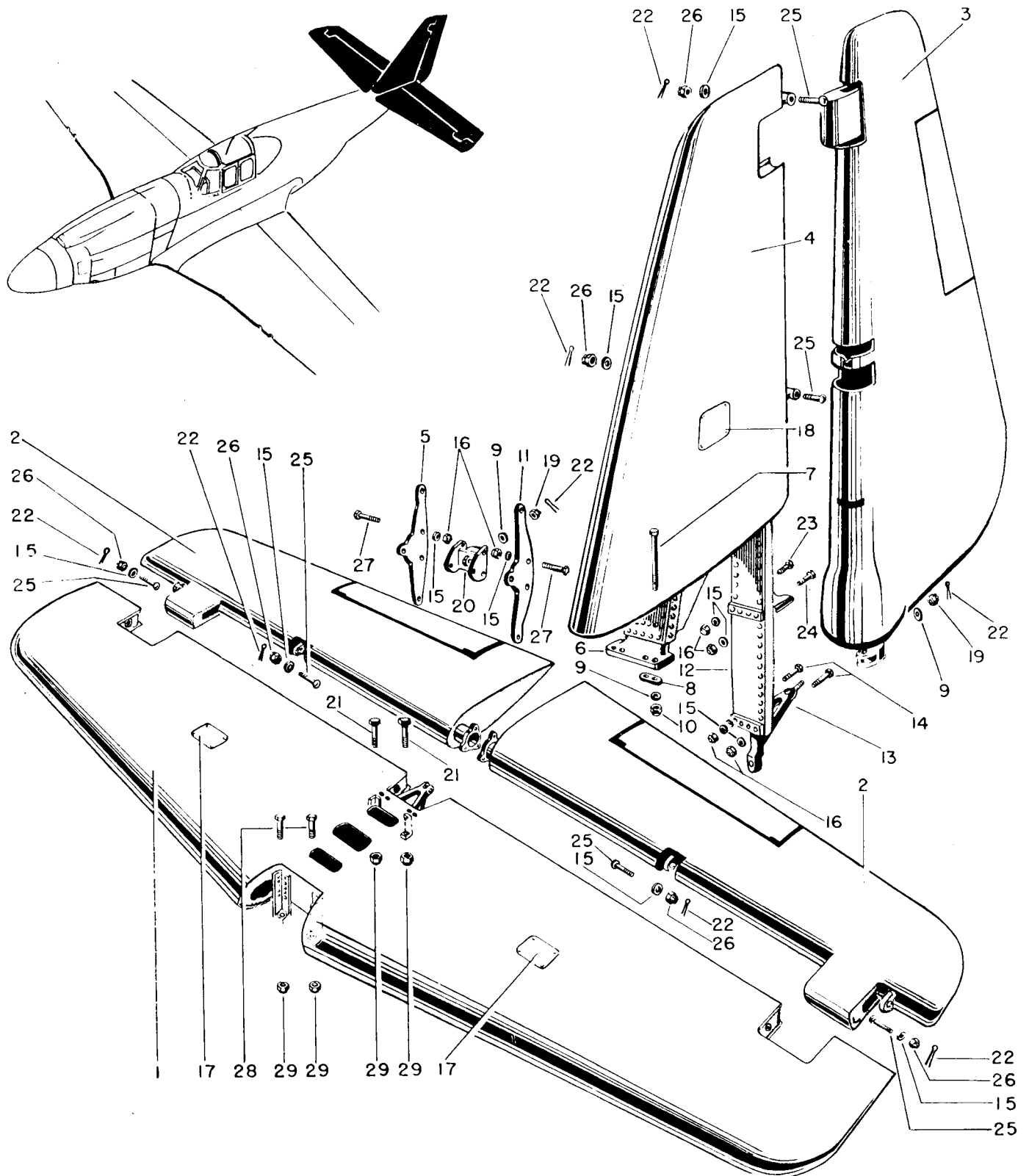
FIGURE No. 78

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|-------------------------------------|----------|---------|-------------|--|----------|
| 1 | 73-18001-1 | Flap - R.H. (See Fig. No. 98) | | 15 | 97-58701 | Link - Flap Control Follow Up | 2 |
| 2 | 73-18001 | Flap - L.H. (See Fig. No. 98) | | 16 | B1071-D8-40 | Spacer | 1 |
| 3 | 97-52647-2 | Support - Flap Indicator | 1 | | AN43-35 | Eye Bolt | 1 |
| 4 | 73-52637-3 | Cable - Flap | 1 | 17 | AN310-4 | Nut | 1 |
| 5 | 97-52611 | Handle - Flap Cockpit Control | 1 | 18 | 99-580132 | Valve - Hydraulic Wing Selector Flap (See Fig. No. 24) | |
| 6 | 97-52634 | Bellcrank - Flap Control Handle | 1 | 19 | 73-52609 | Tube - Flap Torque | 1 |
| 7 | 97-58704 | Rod - Flap Bellcrank Control Handle | 1 | | 73-52603-6 | Tube - Flap Torque Complete | 1 |
| 8 | 97-58703 | Link - Wing Flap Control Support | 2 | 20 | 73-52617 | Arm - Flap Torque Actuating Outboard | 2 |
| 9 | E1070-10-48 | Spacer | 1 | | 73-52622 | Link - Flap Arm Actuating | 2 |
| | AN310-3 | Nut | 1 | 21 | 73-18016-1 | Fitting - Flap Hinge R.H. (See Fig. No. 98) | |
| | AN380-2-2 | Cotter | 1 | | 73-18016 | Fitting - Flap Hinge L.H. (See Fig. No. 98) | |
| | AN23-24 | Bolt | 1 | 22 | 73-52615 | Arm - Flap Torque Actuating Inboard | 1 |
| 10 | AN3-6 | Bolt | 1 | | | | |
| | AN960-10 | Washer | 1 | 23 | 73-52615 | Arm - Flap Torque Actuating Inboard | 1 |
| | AN310-3 | Nut | 1 | | | | |
| | AN380-2-2 | Cotter | 1 | 24 | AN4-12 | Bolt | 1 |
| 11 | 97-58705 | Rod - Flap Control Valve | 1 | | AN310-4 | Nut | 1 |
| 12 | AN3-7 | Bolt | 2 | | AN380-2-2 | Cotter | 1 |
| | AN960-10 | Washer | 2 | 25 | AN24-21 | Clevis Bolt | 1 |
| | AN310-3 | Nut | 2 | | AN320-4 | Nut | 1 |
| | AN380-2-2 | Cotter | 2 | | AN380-2-2 | Cotter | 1 |
| 13 | 97-58702 | Arm - Flap Control Rod | 1 | 26 | 73-52618 | Link - Flap Strut Operating | 1 |
| 14 | AN3-6 | Bolt | 2 | 27 | 99-580322 | Strut - Hydraulic Wing Flap Operating Complete (See Fig. No. 25) | |
| | AN320-3 | Nut | 2 | | | | |
| | AN380-2-2 | Cotter | 2 | | | | |
| | AN960-10 | Washer | 2 | | | | |

EMPENNAGE

FIGURE No. 79

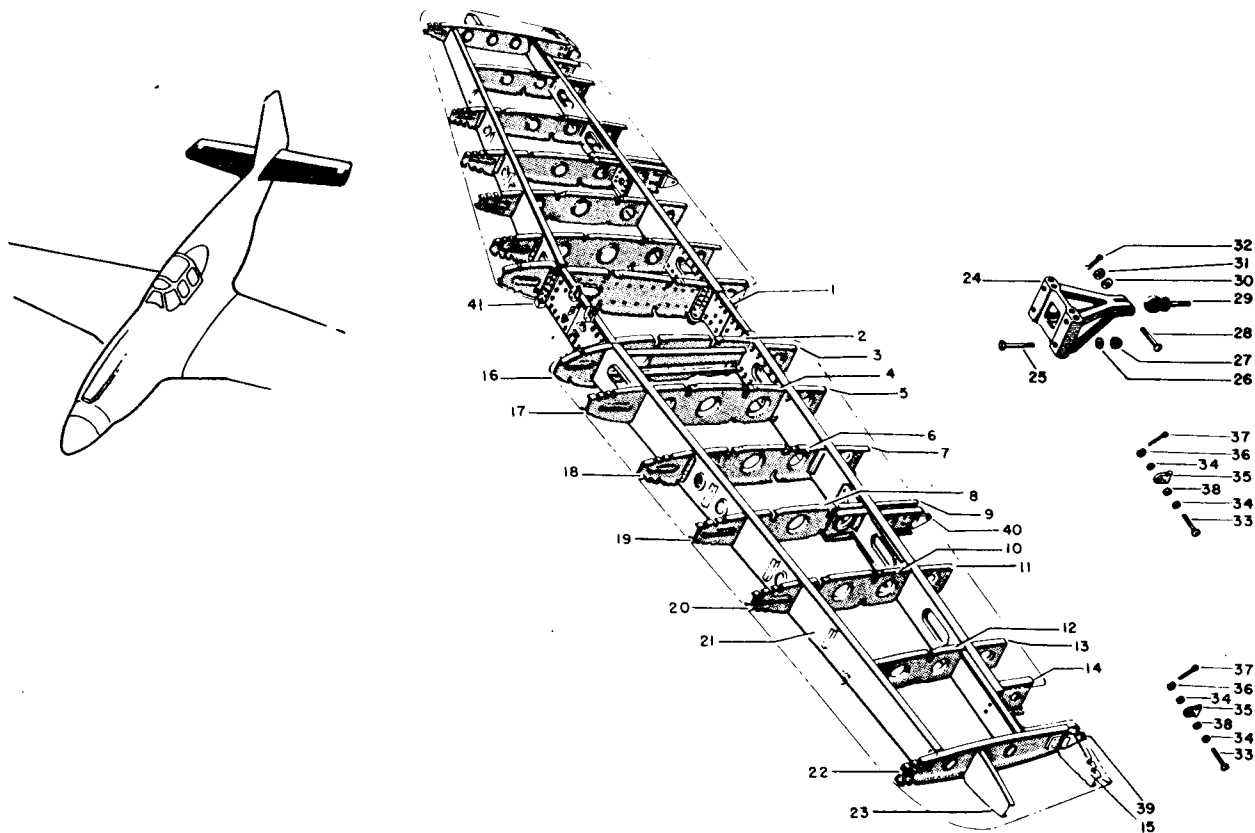
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|---|----------|---------|--------------|--------------------------------|----------|
| 1 | 73-21001-100 | Stabilizer - Horizontal (See Fig. No. 80) | | 14 | AN4-13A | Bolt | 2 |
| 2 | 73-22001 | Elevator - Complete (See Fig. No. 81) | | 15 | AN4-11A | Bolt | 1 |
| 3 | 73-24001-20 | Rudder - Complete (See Fig. No. 83) | | 16 | AN960-416 | Washer | 15 |
| 4 | 73-23001 | Stabilizer - Vertical (See Fig. No. 82) | | 17 | AC365-428 | Nut | 7 |
| 5 | 73-52224 | Horn - Elevator R.H. | 1 | 18 | 73-21039 | Cover - Horizontal Stabilizer | 2 |
| 6 | 73-23003 | Beam - Front Vertical Stabilizer (See Fig. No. 82) | | 19 | 73-23024 | Cover - Vertical Stabilizer | 1 |
| 7 | AN5-42A | Bolt | 4 | 20 | AN310-5 | Nut | 2 |
| 8 | 73-21028 | Spacer - Vertical To Horizontal Stabilizer Attaching | 4 | 21 | 73-52222 | Fitting - Elevator Torque Tube | 1 |
| 9 | AN960-516 | Washer | 6 | 22 | AN7-20A | Bolt | 2 |
| 10 | AC365-524 | Nut | 4 | 23 | AN380-2-2 | Pin | 8 |
| 11 | 73-52223 | Horn - Elevator L.H. | 1 | 24 | AN4-7A | Bolt | 1 |
| 12 | 73-23002 | Beam - Rear Vertical Stabilizer (See Fig. No. 82) | | 25 | AN4-10A | Bolt | 1 |
| 13 | 73-23011 | Fitting (See Fig. 82) | | 26 | AN24-18 | Clevis Bolt | 6 |
| | | | | 27 | AN320-4 | Nut | 6 |
| | | | | 28 | AN4-14A | Bolt | 4 |
| | | | | 29 | B1251-428-23 | Screw | 2 |
| | | | | | B1248-428-18 | Screw | 2 |
| | | | | | AN5-11A | Bolt | 2 |
| | | | | | AC365-720 | Nut | 4 |



EMPENNAGE

FIGURE No. 79

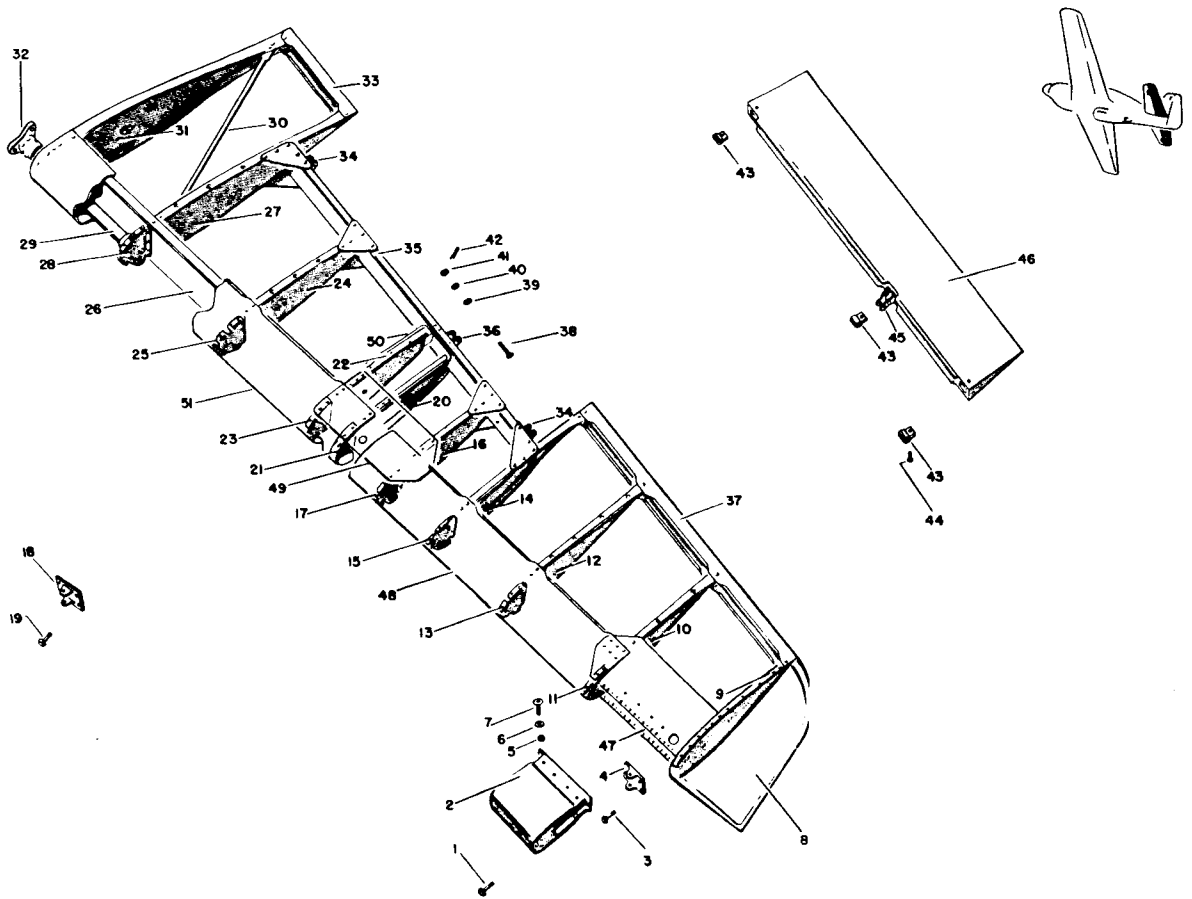
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HORIZONTAL STABILIZER

FIGURE No. 80

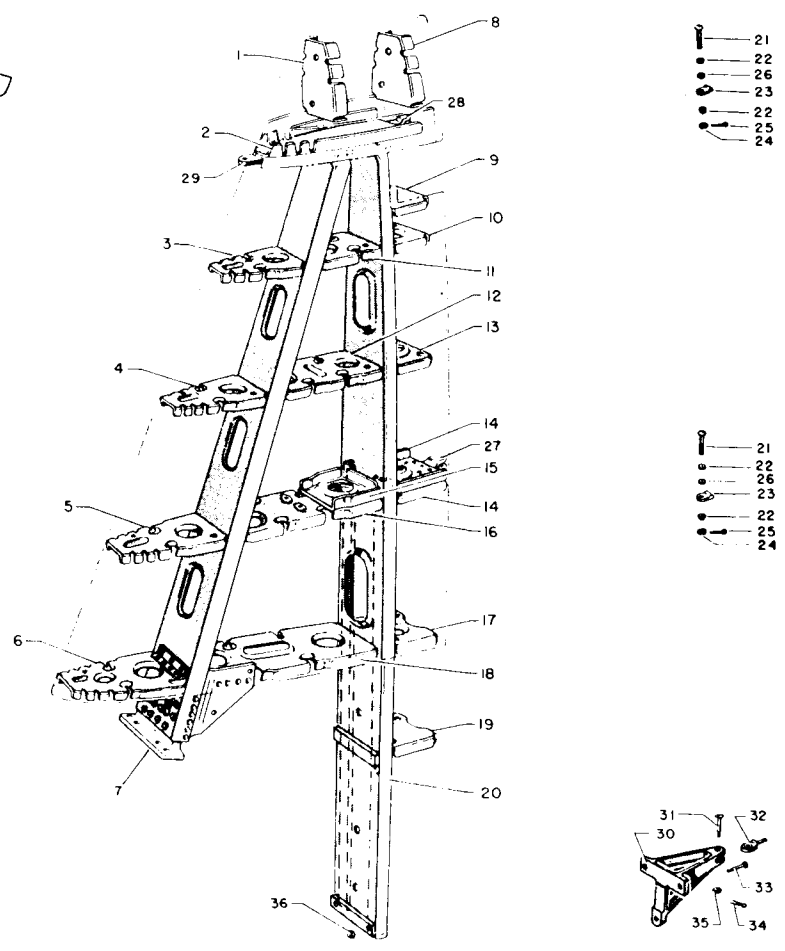
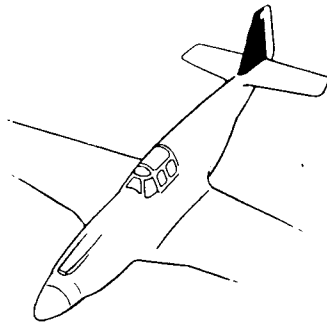
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|---|----------|---------|-------------|--|----------|
| | 73-21001-100 | Stabilizer - Horizontal | 1 | 22 | 73-21017 | Rib - Sta. 70-1/2 | 2 |
| 1 | 73-21003 | Rear Spar Assem. - Sta. 70-1/2 To 70-1/2 | 1 | 23 | 73-21023 | Rib - Front Tip | 2 |
| | | | | 24 | 73-21009 | Bracket Sta. 3-15/32 | 1 |
| 2 | 73-21011-14 | Rib - Intermediate Sta. 3-14/32 L.H. | 1 | 25 | AN5-17A | Bolt | 4 |
| | 73-21011-15 | Rib - Intermediate Sta. 3-15/32 R.H. | 1 | 26 | AN960-516 | Washer | 8 |
| 3 | 73-21018 | Rib - Tail Sta. 4-7/8 | 2 | | AN960-516L | Washer | 4 |
| 4 | 73-21012-14 | Rib - Intermediate Sta. 15 L.H. | 1 | 27 | AC365-524 | Nut | 4 |
| | 73-21012-15 | Rib - Intermediate Sta. 15 R.H. | 1 | 28 | AN24-21 | Bolt | 1 |
| 5 | 73-21012-4 | Rib - Tail Sta. 15 | 2 | 29 | B1074 | Eyebolt | 1 |
| 6 | 73-21013-12 | Rib - Intermediate Sta. 24-3/4 L.H. | 1 | 30 | AN960-516 | Washer | 1 |
| | 73-21013-13 | Rib - Intermediate Sta. 24-3/4 R.H. | 1 | 31 | AN320-4 | Nut | 1 |
| 7 | 73-21013-5 | Rib - Tail Sta. 24-3/4 | 2 | 32 | AN380-2-2 | Pin | 1 |
| 8 | 73-21014-10 | Rib - Intermediate Sta. 35-1/4 L.H. | 1 | 33 | AN24-18 | Bolt | 4 |
| | 73-21014-11 | Rib - Intermediate Sta. 35-1/4 R.H. | 1 | 34 | AN960-416 | Washer | 8 |
| 9 | 73-21014-7 | Rib - Tail Sta. 35-1/4 | 4 | 35 | 73-22023 | Link | 4 |
| 10 | 73-21015-3 | Rib - Intermediate Sta. 46-3/4 L.H. | 1 | 36 | AN320-4 | Nut | 4 |
| | 73-21015-4 | Rib - Intermediate Sta. 46-3/4 R.H. | 1 | 37 | AN380-2-2 | Pin | 4 |
| 11 | 73-21015-5 | Rib - Tail Sta. 46-3/4 | 2 | 38 | AN200K54 | Bearing | 2 |
| 12 | 73-21016-2 | Rib - Intermediate Sta. 59 L.H. | 1 | 39 | 73-21008 | Fitting - Outboard Elevator Hinge | 2 |
| | 73-21016-3 | Rib - Intermediate Sta. 59 R.H. | 1 | 40 | 73-21007 | Fitting - Inboard Elevator Hinge | 2 |
| 13 | 73-21016-4 | Rib - Tail Sta. 59 | 2 | 41 | 73-21031 | Fitting - Front Horizontal Stabilizer Attaching L.H. | 1 |
| 14 | 73-21020 | Rib - Tail Sta. 62-7/8 | 2 | | 73-21031-1 | Fitting - Front Horizontal Stabilizer Attaching R.H. | 1 |
| 15 | 73-21024 | Rib - Rear Tip | 2 | | 73-21033 | Fitting - Rear Horizontal Stabilizer Attaching L.H. | 1 |
| 16 | 73-21011-2 | Rib - Nose Sta. 3-15/16 | 2 | | 73-21033-1 | Fitting - Rear Horizontal Stabilizer Attaching R.H. | 1 |
| 17 | 73-21012-7 | Rib - Nose Sta. 15 | 2 | | | | |
| 18 | 73-21013-2 | Rib - Nose Sta. 24-3/4 | 2 | | | | |
| 19 | 73-21014-8 | Rib - Nose Sta. 35-1/4 | 2 | | | | |
| 20 | 73-21015-2 | Rib - Nose Sta. 46-3/4 | 2 | | | | |
| 21 | 73-21002-10 | Front Spar Assem. - Sta. 70-1/2 To 70-1/2 | 1 | | | | |



ELEVATOR

FIGURE No. 81

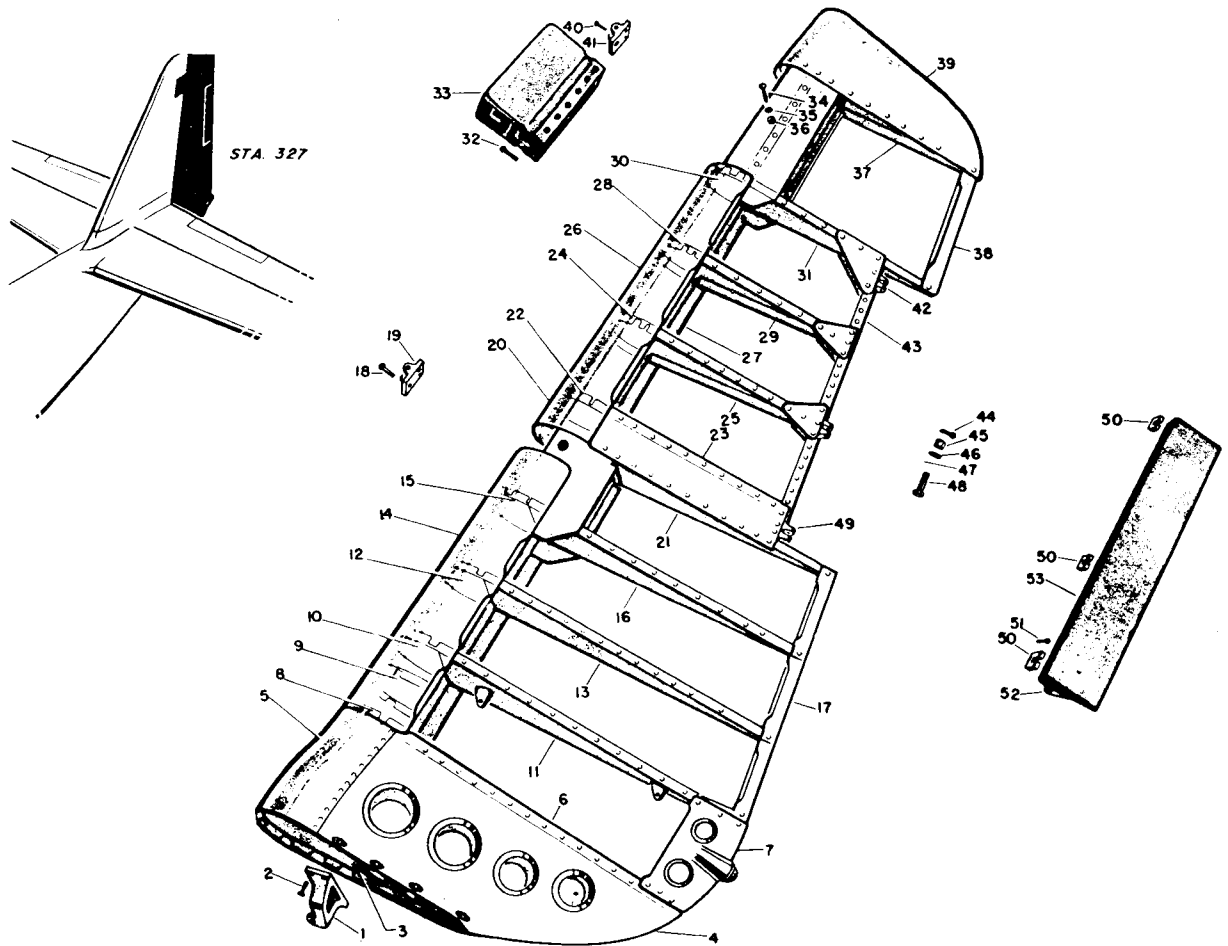
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|---------------|--------------------------|----------|
| | 73-22001 | Elevator - Covered Complete (Includes Trim Tab) | 1 | 27 | 73-22043 | Rib - Trailing | 2 |
| | 73-22002 | Frame - Elevator Complete (Less Trim Tab) | 1 | 28 | 73-22045 | Rib - Nose | 2 |
| 1 | AN3-5A | Bolt | 4 | 29 | 73-22028 | Tube - Torque | 2 |
| 2 | AN3-7A | Bolt | 2 | 30 | 73-22029 | Tube - Reinforcement | 2 |
| 3 | 73-22034 | Housing - Counter - Balance | 2 | 31 | 73-22044 | Rib - Inboard Elevator | 2 |
| 4 | AN3-5A | Bolt | 4 | 32 | 88-22026 | Flange - Torque Tube | 2 |
| 5 | 73-22015 | Fitting - Outboard Hinge | 2 | 33 | 73-22002-9 | Edge - Inboard Trailing | 2 |
| 6 | AC365-1032 | Nut | 16 | 34 | 73-22011 | Fitting - Trim Tab Hinge | 4 |
| 7 | B1310-2 | Washer | 16 | 35 | 73-22051 | Beam - Elevator Pulse | 2 |
| 8 | B1289-10-10 | Screw | 16 | 36 | 73-22012 | Fitting - Trim Tab Hinge | 2 |
| 9 | 73-22052 | Tip - Elevator | 2 | 37 | 73-22002-8 | Edge - Outboard Trailing | 2 |
| 10 | 73-22035 | Rib - Outboard Elevator | 2 | 38 | AN23-17 | Bolt | 6 |
| 11 | 73-22036 | Rib - Trailing | 2 | 39 | 73-525125 | Washer - Hinge | 6 |
| 12 | 73-22048 | Rib - Nose | 2 | 40 | AN960-10 | Washer | 6 |
| 13 | 73-22037 | Rib - Trailing | 2 | 41 | AN320-3 | Nut | 6 |
| 14 | 73-22046-2 | Rib - Nose | 2 | 42 | AN380-2-2 | Pin | 6 |
| 15 | 73-22038 | Rib - Trailing | 2 | 43 | 73-22007 | Fitting - Trim Tab Hinge | 6 |
| 16 | 73-22046-3 | Rib - Nose | 2 | | 73-52535 | Bushing - Hinge | 6 |
| 17 | 73-22039 | Rib - Trailing | 2 | 44 | B1251-1032-16 | Screw | 4 |
| 18 | 73-22047-2 | Rib - Nose | 2 | | B1251-1032-7 | Screw | 2 |
| 19 | 73-22014 | Fitting - Center Hinge | 2 | 45 | 83-22022 | Horn - Trim Tab | 2 |
| 20 | AN3-5A | Bolt | 2 | 46 | 83-22004 | Tab - Elevator Trim | 2 |
| 21 | 73-22040 | Rib - Trailing | 2 | 47 | 73-22002-6 | Gusset - Outboard L.H. | 2 |
| 22 | 73-22047-3 | Rib - Nose | 2 | | 73-22002-7 | Gusset - Outboard R.H. | 2 |
| 23 | 73-22041 | Rib - Trailing | 2 | 48 | 73-22002-3 | Cover - Outboard Nose | 2 |
| 24 | 73-22047-4 | Rib - Nose | 2 | 49 | 73-22002-4 | Gusset - Center L.H. | 2 |
| 25 | 73-22042 | Rib - Trailing | 2 | | 73-22002-5 | Gusset - Center R.H. | 2 |
| 26 | 73-22049 | Rib - Nose | 2 | 50 | 73-22002-14 | Plate - Top Center | 2 |
| | 73-22050 | Spar - Front | 2 | | 73-22002-15 | Plate - Bottom Center | 2 |
| | | | 2 | 51 | 73-22002-2 | Cover - Inboard Nose | 2 |



VERTICAL STABILIZER

FIGURE No. 82

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---------------------------------|----------|---------|-------------|--|----------|
| | 73-23001 | Stabilizer - Vertical | 1 | 21 | AN24-18 | Bolt | 2 |
| 1 | 73-23021 | Rib - Front Tip | 1 | 22 | AN960-416 | Washer | 4 |
| 2 | 73-23008 | Rib - Sta. 61-1/2 | 1 | 23 | 73-22023 | Link | 2 |
| 3 | 73-23007-2 | Rib - Front Sta. 50-1/2 | 1 | 24 | AN320-4 | Nut | 2 |
| 4 | 73-23006-2 | Rib - Front Sta. 40 | 1 | 25 | AN380-2-2 | Pin | 2 |
| 5 | 73-23005-2 | Rib - Front Sta. 29 | 1 | 26 | AN200K54 | Bearing | 2 |
| 6 | 73-23004-2 | Rib - Front Sta. 19 | 1 | 27 | 73-21007 | Fitting - Vertical Stabilizer Center Hinge | 1 |
| 7 | 73-23003 | Front Spar Assembly | 1 | 28 | 73-21008 | Fitting - Vertical Stabilizer Top Hinge | 1 |
| 8 | 73-23022 | Rib - Rear Tip | 1 | 29 | 73-71042 | Fitting - Antenna Attaching | 1 |
| 9 | 73-23013 | Rib - Rear Sta. 54-9/16 | 1 | 30 | 73-23011 | Fitting - Vertical Stabilizer Bottom Hinge | 1 |
| 10 | 73-23007-4 | Rib - Rear Sta. 50-1/2 | 1 | 31 | AN24-21 | Bolt | 1 |
| 11 | 73-23007-3 | Rib - Intermediate Sta. 50-1/2 | 1 | 32 | 33-24060 | Eyebolt - Stabilizer To Rudder Bottom | 1 |
| 12 | 73-23006-3 | Rib - Intermediate Sta. 40 | 1 | 33 | AN4-13A | Bolt (See Fig. No. 79) | 1 |
| 13 | 73-23006-4 | Rib - Rear Sta. 40 | 1 | | AN4-11A | Bolt (See Fig. No. 79) | 1 |
| 14 | 73-23005-5 | Rib - Tail Sta. 29-1/2 | 1 | 34 | AN380-2-2 | Pin | 1 |
| 15 | 73-23005-6 | Rib - Reinforcement Sta. 29-1/4 | 1 | 35 | AN320-4 | Nut | 1 |
| 16 | 73-23005-3 | Rib - Intermediate Sta. 29-1/4 | 1 | 36 | AC365-428 | Nut (See Fig. No. 79) | 1 |
| 17 | 73-23004-4 | Rib - Tail Sta. 19 | 1 | | | | |
| 18 | 73-23004-3 | Rib - Intermediate Sta. 19 | 1 | | | | |
| 19 | 73-23015 | Rib - Tail Sta. 10 | 1 | | | | |
| 20 | 73-23002 | Rear Spar Assembly | 1 | | | | |



RUDDER

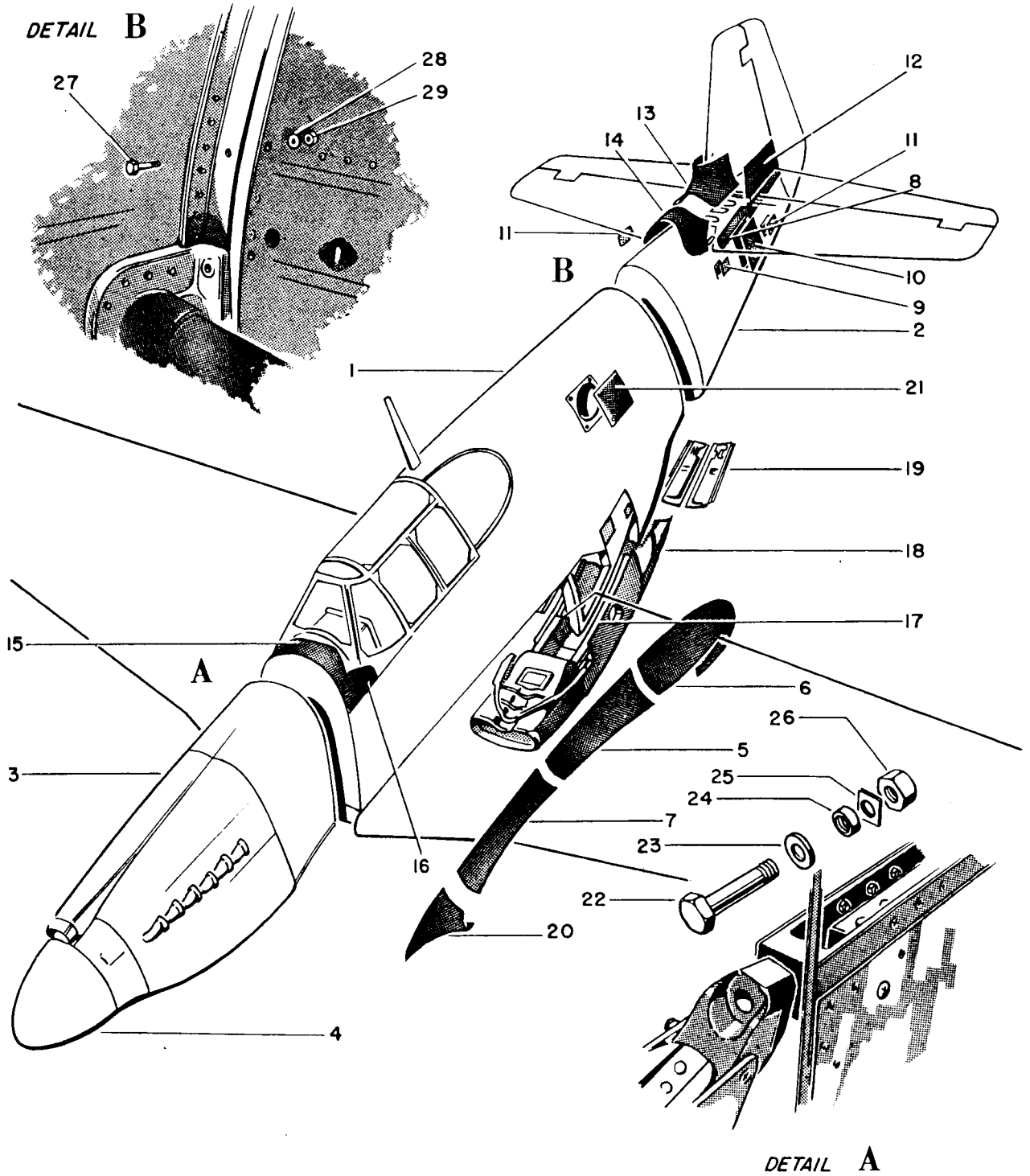
FIGURE No. 83

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|---------------|--|----------|
| | 73-24001-20 | Rudder - Covered Complete (Includes Trim Tab) | 1 | 29 | 73-24035 | Rib - Trailing | 1 |
| | 73-24002-60 | Frame - Rudder Complete (Less Trim Tab) | 1 | 30 | 73-24042 | Rib - Nose | 1 |
| 1 | 73-24019 | Fitting - Bottom Hinge | 1 | 31 | 73-24036 | Rib - Trailing | 1 |
| 2 | AN3-6A | Bolt | 6 | 32 | AN3-5A | Bolt | 2 |
| 3 | 73-24027 | Rib - Rudder Bottom | 1 | 33 | AN3-7A | Bolt | 1 |
| 4 | 73-24002-11 | Cover - Bottom Welded | 1 | 33 | 73-24008 | Housing, - Rudder Counter-Balance Weight | 1 |
| 5 | 73-24002-8 | Cover - Bottom Nose | 1 | 34 | B1289-10-10 | Screw | 8 |
| 6 | 73-24028 | Rib - Trailing | 1 | 35 | B1310-2 | Washer | 8 |
| 7 | 73-24002-12 | Fairing - Tail Light Welded | 1 | 36 | AC365-1032 | Nut | 8 |
| 8 | 73-24038 | Rib - Nose | 1 | 37 | 73-24037 | Rib - Rudder Top | 1 |
| 9 | 73-24039-4 | Rib - Nose | 1 | 38 | 73-24002-55 | Edge - Upper Trailing | 1 |
| 10 | 73-24039-2 | Rib - Nose | 1 | 39 | 73-24045 | Tip - Rudder | 1 |
| 11 | 73-24029 | Rib - Trailing | 1 | 40 | AN3-5A | Bolt | 2 |
| 12 | 73-24039-3 | Rib - Nose | 1 | 41 | 73-22015 | Fitting - Upper Hinge | 1 |
| 13 | 73-24030 | Rib - Trailing | 1 | 42 | 73-24014 | Fitting - Upper Trim Tab Hinge | 1 |
| 14 | 73-24002-9 | Cover - Center To Bottom Nose | 1 | 43 | 73-24044 | Beam - Rudder False | 1 |
| 15 | 73-24040-2 | Rib - Nose | 1 | 44 | AN380-2-2 | Pin | 3 |
| 16 | 73-24031 | Rib - Trailing | 1 | 45 | AN320-3 | Nut | 3 |
| 17 | 73-24002-54 | Edge - Lower Trailing | 1 | 46 | 73-525125 | Washer - Trim Tab Fitting | 3 |
| 18 | AN3-5A | Bolt | 4 | 47 | 73-24009 | Fitting - Center Trim Tab Hinge | 1 |
| 19 | 73-22014 | Fitting - Center Hinge | 1 | 48 | AN23-17 | Bolt | 3 |
| 20 | 73-24040-3 | Rib - Nose | 1 | 49 | 73-24010 | Fitting - Lower Trim Tab Hinge | 1 |
| 21 | 73-24032 | Rib - Trailing | 1 | 50 | 73-22007 | Fitting - Trim Tab Hinge | 3 |
| 22 | 73-24040-4 | Rib - Nose | 1 | | 73-52535 | Bushing - Trim Tab Hinge Fitting | 3 |
| 23 | 73-24033 | Rib - Trailing | 1 | 51 | B1251-1032-12 | Screw | 3 |
| 24 | 73-24041-2 | Rib - Nose | 1 | 52 | 83-24015 | Horn - Trim Tab | 1 |
| 25 | 73-24034 | Rib - Trailing | 1 | | B1251-10-16 | Screw | 1 |
| 26 | 73-24002-10 | Cover - Center To Top | 1 | | B1251-10-14 | Screw | 1 |
| 27 | 73-24043 | Beam - Rudder Forward | 1 | | AN960-10 | Washer | 1 |
| 28 | 73-24041-3 | Rib - Nose | 1 | | AC365-1032 | Nut | 2 |
| | | | | 53 | 83-24004 | Tab - Rudder Trim | 1 |

FUSELAGE COVERED

FIGURE No. 84

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|--|----------|---------|--------------|---|----------|
| 1 | 99-31111 | Fuselage - Forward Complete (See Fig. No. 86) | | | B1289-8-8 | Screw | 18 |
| 2 | 97-31108-200 | Frame - Fuselage Rear Complete (See Fig. No. 89) | | 15 | B1289-8-9 | Screw | 6 |
| 3 | 91-31013 | Engine Mount And Cowling (See Fig. No. 85) | | 16 | 83-310127 | Cover - Top Windshield Access | 1 |
| 4 | 99-44002 | Spinner - Propeller (See Fig. No. 85) | | | 35B1406-6 | Spring | 12 |
| 5 | 73-10006 | Fillet - Wing To Fuselage Top Rear L.H. | 1 | | 73-310128 | Cover - Side Windshield Access L.H. | 1 |
| | 73-10006-1 | Fillet - Wing To Fuselage Top Rear R.H. | 1 | | 73-310128-1 | Cover - Side Windshield Access R.H. | 1 |
| | B1013-2 | Washer | 34 | 17 | 97-310218 | Door - Radiator Air Scoop Access L.H. | 1 |
| | B1289-8-8 | Screw | 34 | | 97-310218-1 | Door - Radiator Air Scoop Access R.H. | 1 |
| 6 | 99-10007 | Fillet - Wing To Fuselage Rear L.H. | 1 | 18 | 99-31025 | Scoop - Fuselage Radiator Air Rear (See Fig. No. 93) | 1 |
| | 99-10007-1 | Fillet - Wing To Fuselage Rear R.H. | 1 | 19 | 73-31066 | Door - Fuselage Tail Wheel L.H. | 1 |
| | B1310-2 | Washer | 30 | | 73-31066-1 | Door - Fuselage Tail Wheel R.H. | 1 |
| | B1289-8-8 | Screw | 30 | | B1251-1032-9 | Screw | 13 |
| 7 | 73-10005 | Fillet - Wing To Fuselage Top Front L.H. | 1 | 20 | B1289-10-12 | Screw | 5 |
| | 73-10005-1 | Fillet - Wing To Fuselage Top Front R.H. | 1 | | AC365-1032 | Nut | 12 |
| | B1310-2 | Washer | 42 | | 73-31099 | Cowling - Intermediate Rear L.H. | 1 |
| | B1289-8-8 | Screw | 42 | | 73-31099-1 | Cowling - Intermediate Rear R.H. | 1 |
| 8 | 73-20002-4 | Fillet - Empennage L.H. | 1 | | B1289-10-8 | Screw | 32 |
| | 73-20002-5 | Fillet - Empennage R.H. | 1 | | B1289-8-8 | Screw | 10 |
| 9 | 73-31062 | Cover - Fuselage Access Station 273-1/2 | 2 | 21 | B1310-2 | Washer | 32 |
| 10 | 99-31083 | Cover - Fuselage L.H. Access Side Sta. 291 To 300 | 1 | | B1289-8-10 | Screw | 6 |
| | B1251-10-8 | Screw | 29 | | AC365-832 | Nut | 4 |
| | AC365-1032 | Nut | 29 | 22 | B1310 | Washer | 16 |
| 11 | 73-31063 | Cover - Fuselage Access Sta. 302 | 2 | 23 | 97-31031 | Cover - Fuselage Left Access Sta. 208 | 1 |
| 12 | 73-20002-14 | Fillet - Empennage L.H. | 1 | 24 | 73-31910 | Bolt - Engine Mount Attaching | 4 |
| | 73-20002-15 | Fillet - Empennage R.H. | 1 | 25 | 73-31913 | Washer - Engine Mount Attaching Bolt | 4 |
| | B1310-2 | Washer | 24 | 26 | 99-31359 | Bushing - Engine Mount Attaching Bolt | 4 |
| | B1289-8-8 | Screw | 20 | 27 | 73-31930 | Washer - Engine Mount Fitting | 4 |
| 13 | 73-20002-3 | Fillet - Empennage | 1 | | 73-31912 | Nut - Engine Mount Fuselage Attaching | 4 |
| | B1310-2 | Washer | 24 | | AN4-5A | Bolt | 15 |
| | B1289-8-8 | Screw | 20 | | AN4-6A | Bolt | 16 |
| | B1289-8-9 | Screw | 6 | | AN4-7A | Bolt | 8 |
| 14 | 73-20002-2 | Fillet - Empennage | 1 | 28 | AN6-14A | Bolt | 2 |
| | B1310-2 | Washer | 24 | | AN960-616 | Washer | 2 |
| | | | | | AN960-416 | Washer | 70 |
| | | | | 29 | AC365-428 | Nut | 39 |
| | | | | | AC365-624 | Nut | 2 |



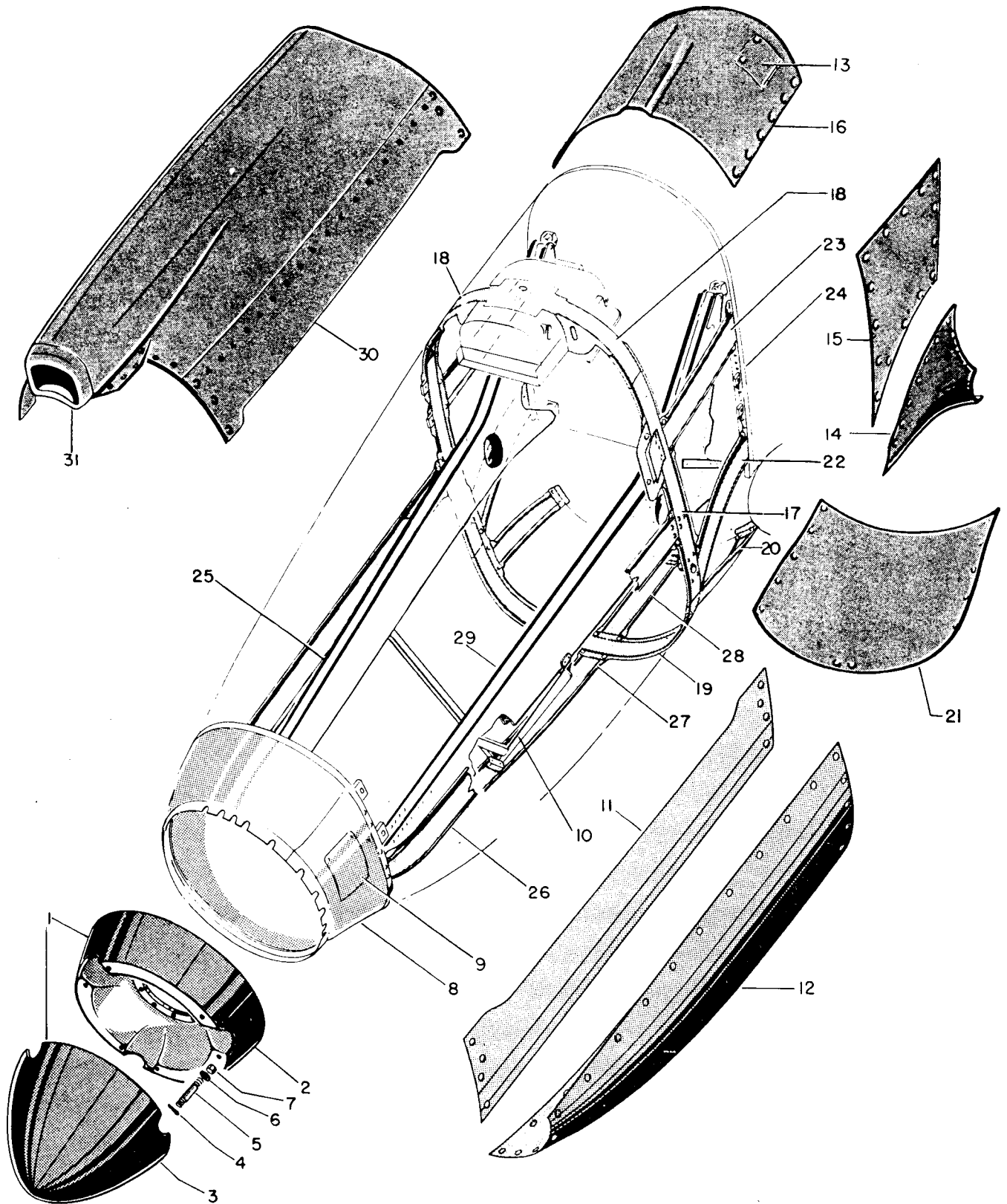
FUSELAGE COVERED

FIGURE No. 84

ENGINE COWLING

FIGURE No. 85

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|---------------|-----------------------------------|----------|---------|-------------|-------------------------------------|----------|
| 1 | 99-44002 | Spinner Complete - Propeller | | 16 | 73-31072 | Cowling - Removable Top Rear Side | 1 |
| | AN7-10A | Bolt | 3 | 17 | 73-31043 | Former - Removable Cowling Side | |
| | B985-29-28-6 | Washer | 3 | | | Rear Complete L.H. | 1 |
| | AC365-720 | Nut | 3 | | 73-31043-1 | Former - Removable Cowling Side | |
| | B875-16-24-63 | Washer | 9 | | | Rear Complete R.H. | 1 |
| | AN4-6A | Bolt | 9 | 18 | 83-31041-1 | Former - Engine Removable Cowling | |
| | AC365-428 | Nut | 9 | | | Top Rear Complete R.H. | 1 |
| 2 | 99-44002-3 | Spinner - Rear Section | 1 | | 83-31041 | Former - Engine Removable Cowling | |
| 3 | 99-44002-4 | Spinner - Front Section | 1 | | | Top Rear Complete L.H. | 1 |
| 4 | AN380-3-4 | Cotter Pin | 6 | 19 | 73-31044 | Former - Cowling Lower Rear | |
| 5 | 73-44024 | Stud | 6 | | | Complete | 1 |
| 6 | AN960-516 | Washer | 6 | 20 | 73-31096 | Former - Cowling Lower | |
| 7 | AC365-524 | Nut | 6 | | | Intermediate Rear | |
| 8 | 73-31011-100 | Cowling - Engine Removable Nose | | | | Complete L.H. | 1 |
| | | Complete | 1 | | 73-31096-1 | Former - Cowling Lower Intermediate | |
| 9 | 91-31086 | Door - Cowling Access Front L.H. | 1 | | | Rear Complete R.H. | 1 |
| | 73-31085 | Door - Cowling Access Front R.H. | 1 | 21 | 73-31098 | Cowling - Removable Rear Bottom | 1 |
| | 97-310225 | Door - Cowling Access Front Lower | 1 | 22 | 73-310101 | Former - Cowling Upper | |
| 10 | 91-310251 | Beam - Engine Lower Bottom | 1 | | | Intermediate Rear | |
| | 91-310251-1 | Beam - Engine Lower Bottom | 1 | | | Complete L.H. | 1 |
| 11 | 73-31071 | Cowling - Engine Removable Center | | | | Complete R.H. | |
| | | Side Complete L.H. | 1 | | 73-310101-1 | Former - Cowling Upper | |
| | 73-31071-1 | Cowling - Engine Removable Center | | | | Intermediate Rear | |
| | | Side Complete R.H. | 1 | 23 | 73-31038 | Former - Cowling Horizontal Side | |
| | 73-31068-1 | Cowling - Engine Removable Lower | | | | Rear Complete L.H. | 1 |
| | | Center Complete R.H. | 1 | | 73-31038-1 | Former - Cowling Horizontal Side | |
| 12 | 91-310155-30 | Cowling - Engine Removable Lower | | | | Rear Complete R.H. | 1 |
| | | Front Complete L.H. | 1 | 24 | 99-31102 | Firewall - Armor Plate Complete | 1 |
| | 91-310155-31 | Cowling - Engine Removable Lower | | 25 | 97-31901-1 | Engine Mount Complete R.H. | 1 |
| | | Front Complete R.H. | 1 | 26 | 91-31037 | Former - Engine Side L.H. | 1 |
| 13 | 73-31089 | Door - Cowling Access Rear | 1 | | 91-31037-1 | Former - Engine Side R.H. | 1 |
| 14 | 73-31099 | Cowling - Removable Rear | | 27 | 99-31056 | Former - Cowling Bottom Front | 1 |
| | | Side L.H. | 1 | 28 | 73-31075 | Former - Cowling Bottom Rear | 1 |
| | 73-31099-1 | Cowling - Removable Rear | | 29 | 97-31901 | Engine Mount Complete L.H. | 1 |
| | | Side R.H. | 1 | 30 | 99-31070 | Cowling - Removable Top Front | |
| 15 | 73-310100 | Cowling - Removable Upper Rear | | | | Complete | 1 |
| | | Side L.H. | 1 | 31 | 99-310146 | Edge - Fuselage Carburetor Air | |
| | 73-310100-1 | Cowling - Removable Upper Rear | | | | Scoop Leading | 1 |
| | | Side R.H. | 1 | | | | |



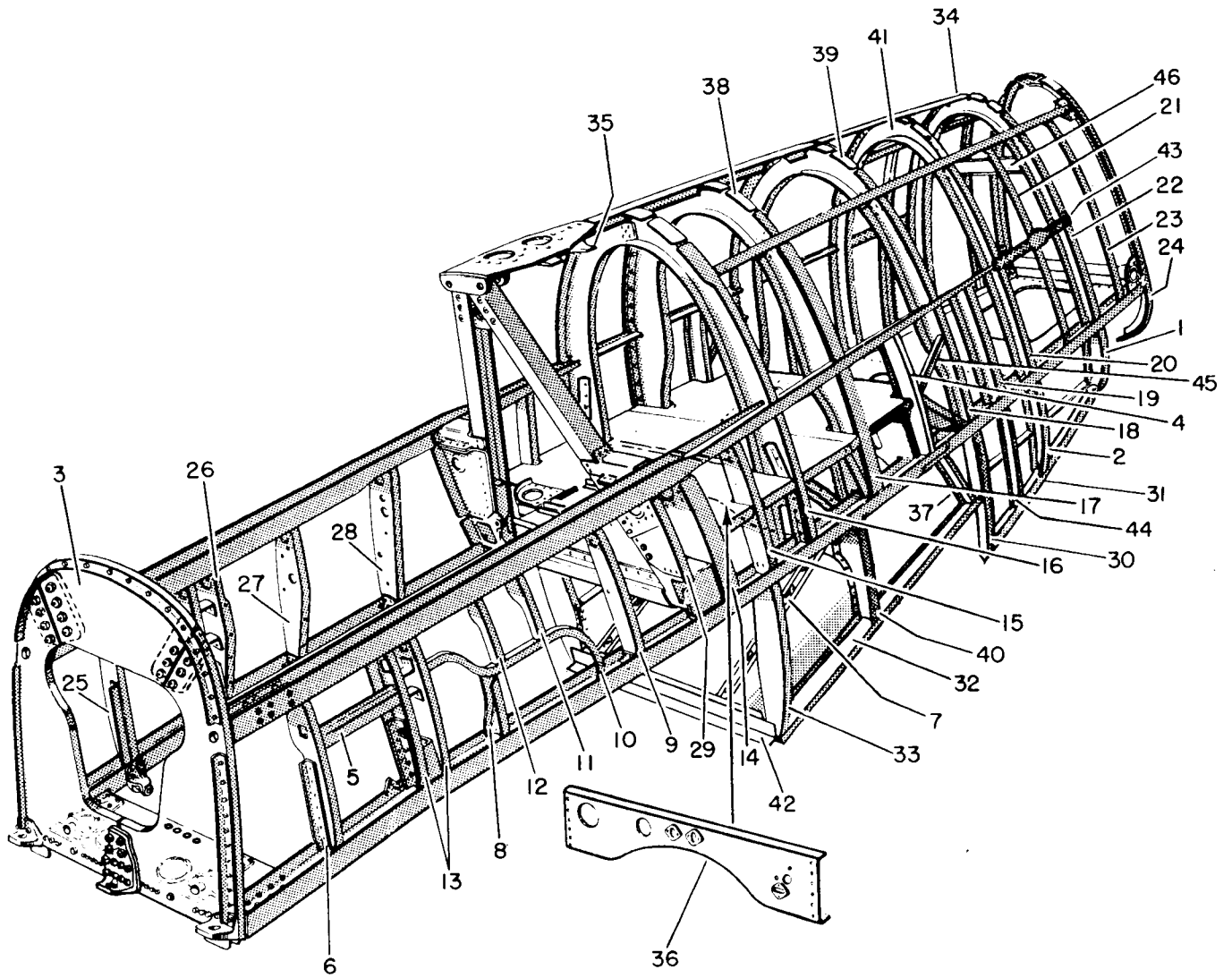
ENGINE COWLING

FIGURE No. 85

FUSELAGE FRONT SECTION FRAME

FIGURE No. 86

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|--|----------|---------|-------------|---|----------|
| 1 | 99-31144 | Frame - Station 232 Lower | 1 | 24 | 73-31286-2 | Frame - Sta. 248 | 1 |
| | 99-31144-1 | Frame - Station 232 Lower | 1 | | 73-31286-3 | Frame - Sta. 248 | 1 |
| 2 | 99-31143 | Frame - Station 216 Lower | 1 | 25 | 73-31225 | Frame - Sta. 89-3/4 | 1 |
| | 99-31143-1 | Frame - Station 216 Lower | 1 | 26 | 73-31155 | Frame - Sta. 104 Right | 1 |
| 3 | 99-31102 | Firewall - Armor Plate Complete | 1 | 27 | 73-31214 | Frame - Sta. 116 | 1 |
| 4 | 99-31145 | Frame - Sta. 192 L.H. | 1 | 28 | 91-31174-10 | Frame - Sta. 130-1/2 | 1 |
| | 99-31145-1 | Frame - Sta. 192 R.H. | 1 | 29 | 73-31184 | Former - Nose Over Structure Aft | 1 |
| 5 | 73-31204 | Channel - Sta. 89-3/4 To 104 | 2 | | 73-31184-3 | Former - Nose Over Structure Aft | 1 |
| 6 | 73-31213-200 | Frame - Sta. 89-3/4 | 1 | 30 | 99-31163 | Frame - Sta. 200 | 1 |
| 7 | 99-310176 | Channel - Sta. 162 To 182-5/8 | 2 | | 99-31163-1 | Frame - Sta. 200 | 1 |
| 8 | 73-31157 | Frame - Sta. 114-7/16 | 1 | 31 | 99-31079-16 | Strip - Sta. 205-5/16 To 232 | 2 |
| 9 | 73-31158-10 | Frame - Sta. 133 | 1 | 32 | 99-31141 | Frame - Sta. 182-5/8 | 1 |
| 10 | 73-31218 | Angle - Sta. 104 To 133 | 1 | | 99-31208 | Channel - Sta. 162 To 200 Lower L.H. | 1 |
| 11 | 73-31216 | Frame - Sta. 116-1/4 To 122-1/4 | 1 | | 99-31208-1 | Channel - Sta. 162 To 200 Lower R.H. | 1 |
| 12 | 73-31216-1 | Frame - Sta. 116-1/4 To 122-1/4 | 1 | 33 | 99-31141-1 | Frame - Sta. 182-5/8 | 1 |
| 13 | 73-31156-10 | Frame - Sta. 104 Left | 1 | | 99-31146 | Frame - Sta. 162 L.H. | 1 |
| 14 | 73-31185 | Former Assem. - Nose Over Structure Forward | 1 | | 99-31146-1 | Frame - Sta. 162 R.H. | 1 |
| | 73-31185-3 | Former - Nose Over Structure Forward | 1 | 34 | 99-31322 | Frame - Sta. 232 | 1 |
| 15 | 73-31160 | Frame - Sta. 157-1/2 | 1 | 35 | 73-31262 | Support - Radio Switch Box | 1 |
| | 73-31160-1 | Frame - Sta. 157-1/2 | 1 | 36 | 99-31188 | Beam - Sta. 168 | 1 |
| 16 | 91-31161 | Frame - Sta. 168 | 1 | 37 | 99-31150 | Frame - Sta. 196 L.H. | 1 |
| | 91-31217 | Frame - Sta. 168 | 1 | | 99-31150-1 | Frame - Sta. 196 R.H. | 1 |
| 17 | 73-31162 | Frame - Sta. 184 | 1 | 38 | 73-31319 | Frame - Sta. 184 | 1 |
| | 73-31162-1 | Frame - Sta. 184 | 1 | 39 | 97-31320 | Frame - Sta. 200 | 1 |
| 18 | 97-31163 | Frame - Sta. 200 | 1 | 40 | 99-31148 | Frame - Sta. 182-5/8 L.H. | 1 |
| | 97-31163-1 | Frame - Sta. 200 | 1 | | 99-31148-1 | Frame - Sta. 182-5/8 R.H. | 1 |
| 19 | 97-31307 | Frame - Sta. 208 | 1 | 41 | 99-31321 | Frame - Sta. 216 | 1 |
| | 97-31316 | Frame - Sta. 208 | 1 | 42 | 99-31147 | Beam - Sta. 162 Lower Front | 1 |
| 20 | 97-31164 | Frame - Sta. 216 | 1 | | 99-31149 | Beam - Sta. 182-5/8 Lower Rear | 1 |
| | 97-31164-1 | Frame - Sta. 216 | 1 | 43 | 97-31151 | Channel - Sta. 216 To 232 L.H. | 1 |
| 21 | 97-31315 | Former - Sta. 224 | 1 | | 97-31151-1 | Channel - Sta. 216 To 232 R.H. | 1 |
| | 97-31315-1 | Former - Sta. 224 | 1 | 44 | 99-31142 | Frame - Sta. 208 L.H. | 1 |
| 22 | 99-31165 | Frame - Sta. 232 | 1 | | 99-31142-1 | Frame - Sta. 208 R.H. | 1 |
| | 99-31165-1 | Frame - Sta. 232 | 1 | 45 | 99-31317 | Former - Sta. 192 To 200 L.H. | 1 |
| 23 | 73-31314 | Former - Sta. 240 | 1 | | 99-31317-1 | Former - Sta. 192 To 200 R.H. | 1 |
| | 73-31314-1 | Former - Sta. 240 | 1 | 46 | 99-31381 | Channel - Hydraulic Strut Attaching | 1 |



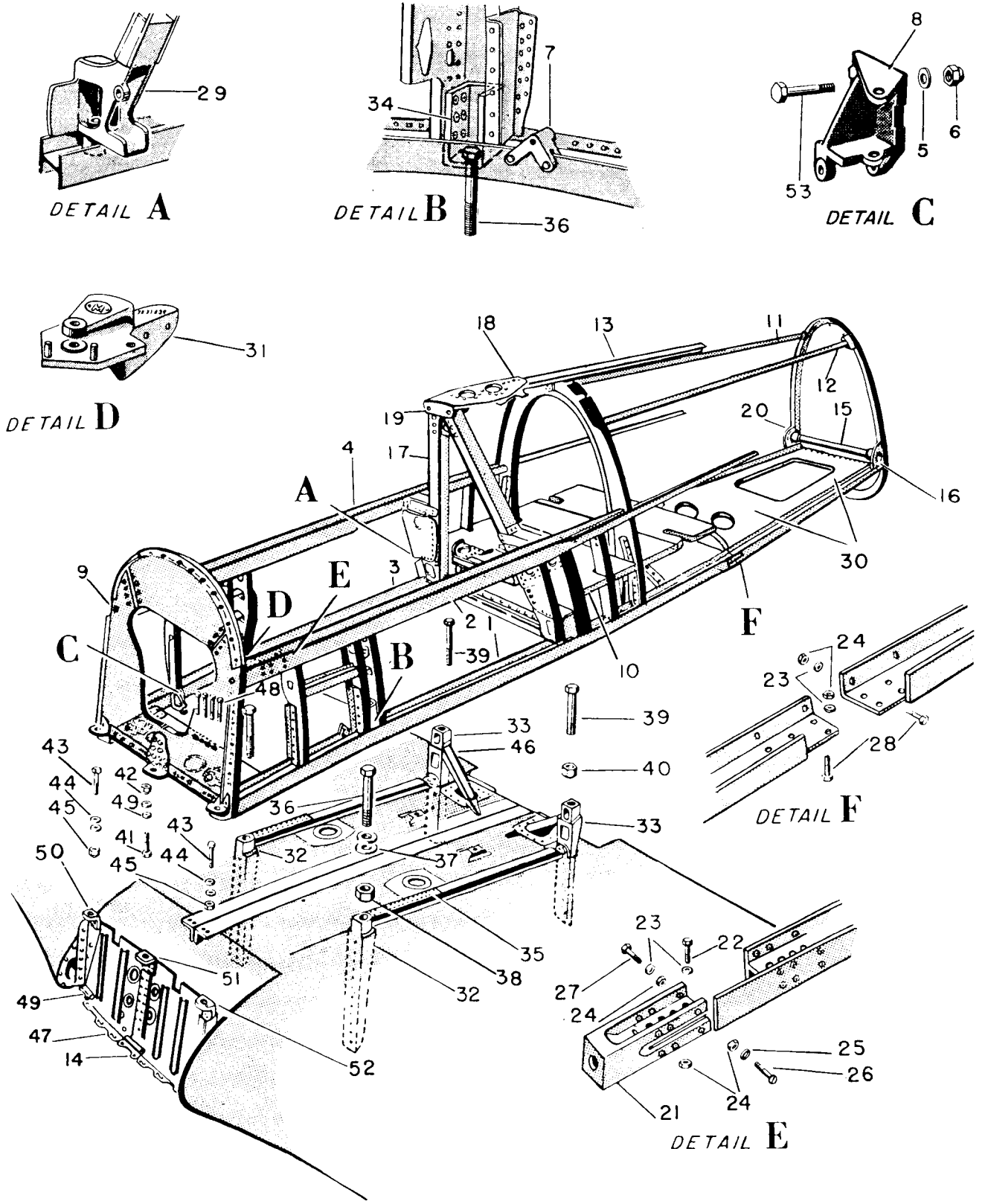
FUSELAGE FRONT SECTION FRAME

FIGURE No. 86

FUSELAGE FRONT SECTION FRAME DETAILS

FIGURE No. 87

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|---|----------|---------|----------------|--|----------|
| 1 | 97-31121-200 | Longeron - Sta. 75.125 To 248 Lower L.H. | 1 | | 73-31177 | Fitting - Overhead Truss Lower L.H. | 1 |
| 2 | 97-31120 | Longeron - Sta. 80.625 To 216 Upper L.H. | 1 | 30 | 99-31202 | Webbing - Sta. 189-1/2 To 248 | 1 |
| 3 | 97-31121-201 | Longeron - Sta. 75.125 To 248 Lower R.H. | 1 | 31 | 73-31888 | Bracket - Emergency Release Pulley L.H. | 1 |
| 4 | 97-31120-1 | Longeron - Sta. 80.625 To 216 Upper R.H. | 1 | | 73-31888-1 | Bracket - Emergency Release Pulley R.H. | 1 |
| 5 | AN960-416 | Washer | 2 | 32 | 73-14007 | Fitting - Front Spar To Fus. L.H. | 1 |
| 6 | AC365-428 | Nut | 2 | | 73-14007-1 | Fitting - Front Spar To Fuselage R.H. | 1 |
| 7 | 73-33525 | Bracket - Landing Gear Lock | 1 | 33 | 73-14006 | Fitting - Rear Spar To Fus. L.H. | 1 |
| 8 | 99-33505-1 | Fitting - Landing Gear Lock Support R.H. | 1 | 34 | 73-14006-1 | Fitting - Rear Spar To Fus. R.H. | 1 |
| | 99-33505 | Fitting - Landing Gear Lock Support L.H. | 1 | | 73-31177 | Fitting - Overhead Truss Lower L.H. | 1 |
| 9 | 99-31102 | Firewall - (See Fig. 88) | 1 | | 73-31177-1 | Fitting - Overhead Truss Lower R.H. | 1 |
| 10 | 99-31205 | Shelf - Radio | 1 | 35 | 73-14215 | Channel - Front Spar To Fus. L.H. | 1 |
| 11 | 99-31122-13 | Stringer - Front Fuselage Upper R.H. | 1 | | 73-14215-1 | Channel - Front Spar To Fus. R.H. | 1 |
| 12 | 99-31122-12 | Stringer - Front Fuselage Upper L.H. | 1 | 36 | AN12-41A | Bolt | 2 |
| 13 | 99-31122-7 | Stringer - Front Fuselage Upper Support | 1 | 37 | B985-50-34-125 | Washer | 4 |
| 14 | 73-31311 | Support - Firewall To Lower Former Cowl | 1 | 38 | AC365-1216 | Nut | 2 |
| 15 | 99-31111-2 | Tube - Fuselage Sta. 248 Hoist | 1 | 39 | AN10-33A | Bolt | 2 |
| 16 | 73-31116 | Fitting - Hoist Tube L.H. | 1 | 40 | AC365-1018 | Nut | 2 |
| 17 | 97-31159 | Frame - Fuselage Sta. 146 (Used On Ships AC42-83763 & Subs.) | 1 | 41 | AN7-13A | Bolt | 1 |
| 18 | 99-31122-8 | Doubler - Front Fuselage Upper | 1 | 42 | AC365-720 | Nut | 1 |
| 19 | 73-31176 | Fitting - Fuselage Overhead Truss | 1 | 43 | AN5-11A | Bolt | 2 |
| 20 | 73-31116-1 | Fitting - Hoist Tube R.H. | 1 | 44 | AN960-516 | Washer | 4 |
| 21 | 73-31119 | Fitting - Fuselage Upper Longeron Engine Mount Attaching L.H. | 1 | 45 | AC365-524 | Nut | 2 |
| | 73-31119-1 | Fitting - Fuselage Upper Longeron Engine Mount Attaching R.H. | 1 | 46 | 73-14205-1 | Brace - Rear Spar To Fuselage Diagonal R.H. | 1 |
| 22 | AN5-10A | Bolt | 8 | | 73-14205 | Brace - Rear Spar To Fuselage Diagonal L.H. | 1 |
| 23 | AN960-516 | Washer | 26 | 47 | 73-10023 | Bulkhead - Wing Center | 1 |
| 24 | AC365-524 | Nut | 38 | 48 | AN6-31A | Bolt | 2 |
| 25 | AN960-516L | Washer | 12 | | AN6-30A | Bolt | 2 |
| 26 | B1251-524-15 | Screw | 4 | | AC365-624 | Nut | 4 |
| | B1251-524-16 | Screw | 4 | 49 | 73-31312 | Support - Firewall To Cowl | 2 |
| 27 | AN5-11A | Bolt | 4 | 50 | 73-14248-1 | Fitting - Wing Center Bulkhead To Fuselage Lower Outboard R.H. | 1 |
| | AN5-7A | Bolt | 6 | | 73-14247 | Fitting - Wing Center Bulkhead To Fuselage Lower Center | 1 |
| 28 | AN5-6A | Bolt | 12 | 52 | 73-14248 | Fitting - Wing Center Bulkhead To Fus. Lower Outboard L.H. | 1 |
| 29 | 73-31177-1 | Fitting - Overhead Truss Lower R.H. | 1 | 53 | AN4-7A | Bolt | 2 |



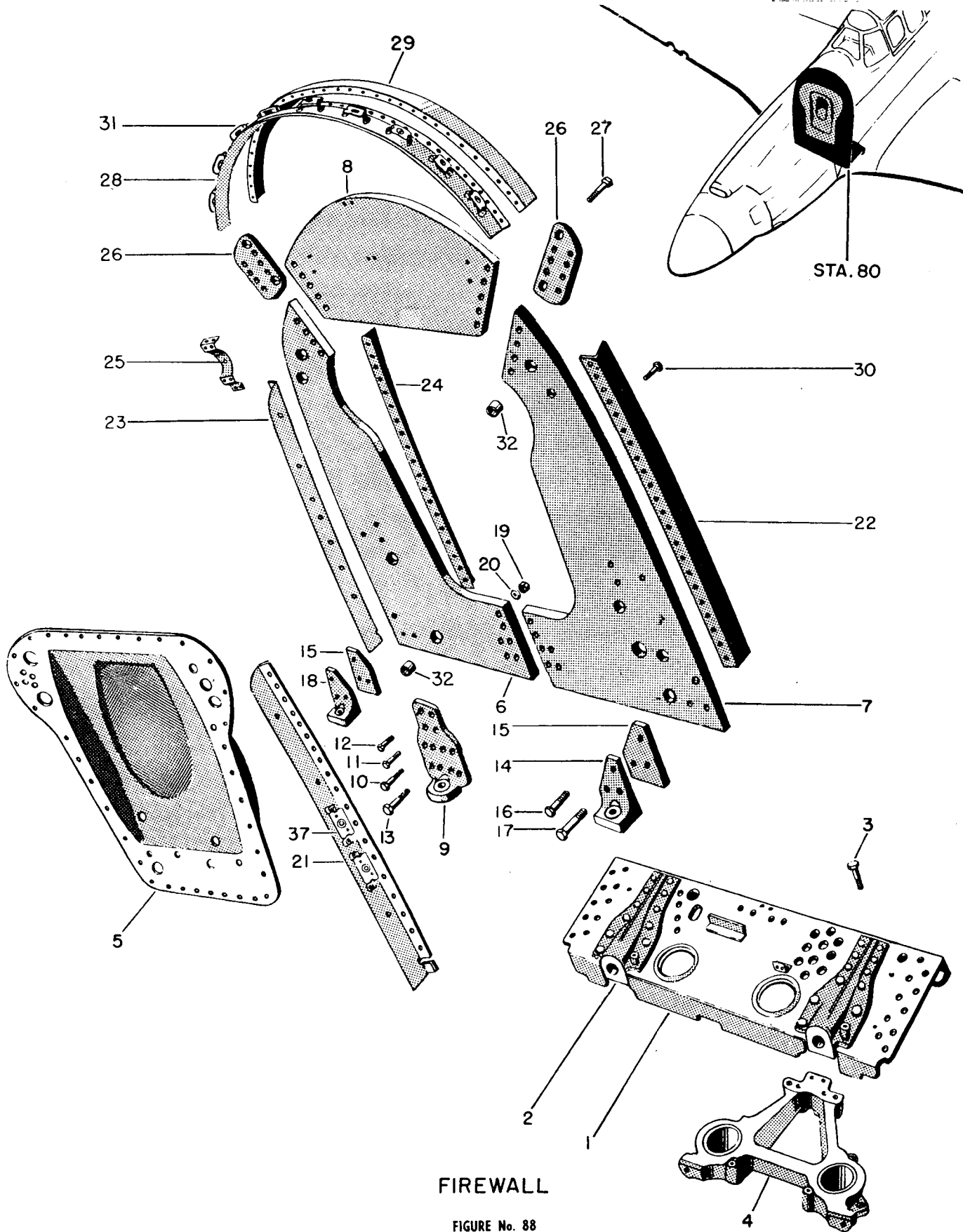
FUSELAGE FRONT SECTION FRAME DETAILS

FIGURE No. 87

FIREWALL

FIGURE No. 88

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO REQ |
|---------|--------------|---|----------|---------|--------------|--|--------|
| 1 | 99-31905 | Beam - Fuselage Engine Mount Support Lower Complete | 1 | 19 | AC365-428 | Nut | 2 |
| 2 | 73-31904 | Fitting - Fuselage Engine Mount Lower | 2 | 20 | AN960-516 | Washer | 2 |
| 3 | AN6-11A | Bolt | 22 | 21 | 99-31102-2 | Angle - Armor Plate Firewall L.H. | 1 |
| | AC365-624 | Nut | 22 | 22 | 99-31102-6 | Angle - Armor Plate Firewall L.H. | 1 |
| | AN960-616 | Washer | 44 | 23 | 99-31102-3 | Angle - Armor Plate Firewall R.H. | 1 |
| 4 | 73-33338 | Fitting - Landing Gear Door Operating Strut Support | 1 | 24 | 99-31102-7 | Angle - Armor Plate Firewall R.H. | 1 |
| 5 | 73-31126-50 | Plate - Oil Tank Cutout Cover | 1 | 25 | 73-47052 | Support - Armor Plate Firewall | 1 |
| | B1287-10-10 | Screw | 35 | | B1286-10-6 | Screw | 2 |
| | AC365-1032 | Nut | 37 | | AC365-1032 | Nut | 2 |
| | B1248-10-10 | Screw | 2 | 26 | 73-31109 | Splice Plate - Armor Plate Firewall | 2 |
| | AN960-10 | Washer | 37 | | AN6-11A | Bolt | 2 |
| 6 | 73-31103-3 | Armor Plate - Firewall Right | 1 | | AC365-624 | Nut | 2 |
| 7 | 73-31103-2 | Armor Plate - Firewall Left | 1 | | B1251-625-19 | Screw | 8 |
| 8 | 73-31103-4 | Armor Plate - Firewall Upper | 1 | | AC365-624 | Nut | 8 |
| | 73-31103-200 | Armor Plate - Firewall Complete | 1 | 27 | AN6-11A | Bolt | 6 |
| 9 | 73-14263 | Fitting - Armor Plate Firewall | 1 | | AC365-624 | Nut | 6 |
| 10 | AN6-12A | Bolt | 4 | 28 | 99-31102-12 | Angle Weld Assem. - Firewall Armor Plate | 1 |
| | AC365-624 | Nut | 4 | | B1286-10-10 | Screw | 2 |
| | AN960-616 | Washer | 4 | | AC365-1032 | Nut | 2 |
| 11 | AN5-10 | Bolt | 2 | 29 | 83-310215 | Angle - Firewall Armor Plate | 1 |
| | AC365-524 | Nut | 2 | 30 | AN4-7A | Bolt | 24 |
| | AN960-616 | Washer | 2 | | AN4-11A | Bolt | 4 |
| 12 | AN4-7A | Bolt | 2 | | AN960-416 | Washer | 54 |
| 13 | AN6-13A | Bolt | 4 | | AC365-428 | Nut | 36 |
| 14 | 73-14245 | Fitting - Armor Plate Firewall L.H. | 1 | 31 | 55-31093 | Support - Armor Plate Firewall Complete | 13 |
| 15 | 73-14254 | Shim - Armor Plate Firewall | 2 | | B1287-10-7 | Screw | 26 |
| 16 | AN4-11A | Bolt | 4 | | AC365-1032 | Nut | 26 |
| 17 | AN6-13A | Bolt | 2 | | AN960-10 | Washer | 26 |
| 18 | 73-14245-1 | Fitting - Armor Plate Firewall R.H. | 1 | 32 | 99-31359 | Bushing - Firewall Engine Mount | 4 |



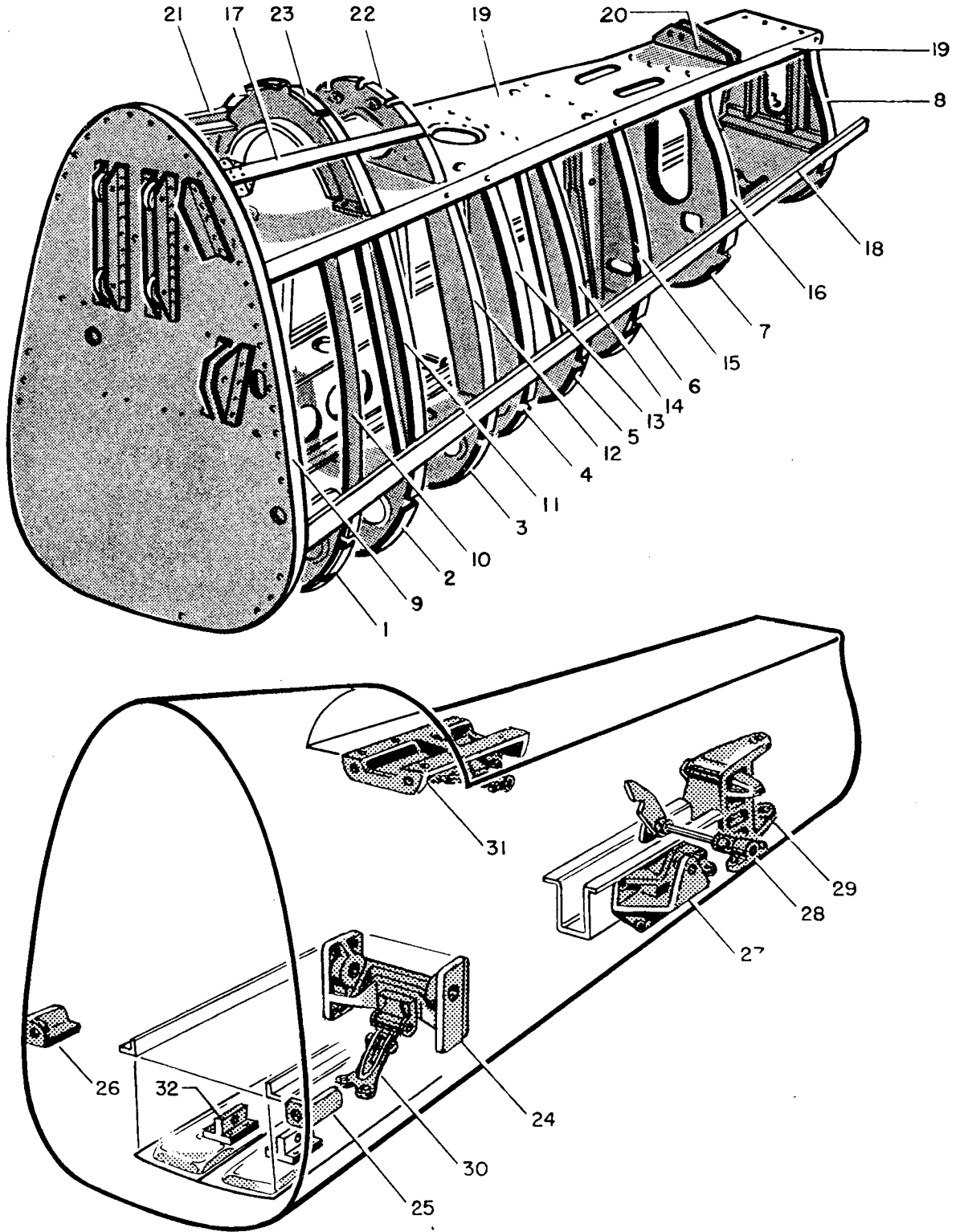
FIREWALL

FIGURE No. 88
RESTRICTED

FUSELAGE REAR SECTION FRAME

FIGURE No. 89

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|---|----------|---------|-------------|--|----------|
| 1 | 73-31110-14 | Frame - Fuselage Sta. 256 Rear Section Lower L.H. | 1 | | 73-31110-7 | Longeron - Rear Section Lower R.H. | 1 |
| | 73-31110-15 | Frame - Fuselage Sta. 256 Rear Section Lower R.H. | 1 | 19 | 73-31125 | Bulkhead - Fuselage Sta. 248 To 321 Rear Section Upper | 1 |
| 2 | 73-31110-16 | Frame - Fuselage Sta. 264 Rear Section Lower L.H. | 1 | 20 | 73-31228 | Bracket - Fuselage Sta. 311-1/2 Rudder Trim Tab Pulley Upper | 1 |
| | 73-31110-17 | Frame - Fuselage Sta. 264 Rear Section Lower R.H. | 1 | 21 | 97-31108-4 | Stringer - Fuselage Sta. 248 To 273.5 Rear Section Upper R.H. | 1 |
| 3 | 73-31110-18 | Frame - Fuselage Sta. 272.5 Rear Section Lower L.H. | 1 | 22 | 73-31370 | Frame - Fus. Sta. 273-1/2 Rear Section Upper | 1 |
| | 73-31110-19 | Frame - Fuselage Sta. 272.5 Rear Section Lower R.H. | 1 | 23 | 73-31175 | Frame - Fus. Sta. 264 Rear Section Upper | 1 |
| 4 | 99-31187 | Frame - Fuselage Sta. 281 Rear Section Lower | 1 | 24 | 73-31114 | Support - Tail Wheel Shock Strut | 1 |
| 5 | 73-31197 | Frame - Fuselage Sta. 291 Rear Section Lower | 1 | | AN5-12A | Bolt | 1 |
| 6 | 73-31199 | Frame - Fuselage Sta. 300 Rear Section Lower | 1 | | AN5-11A | Bolt | 3 |
| 7 | 73-31200 | Frame - Fuselage Sta. 311.5 Rear Section Lower | 1 | | AC365-524 | Nut | 6 |
| 8 | 73-31172 | Frame - Fuselage Sta. 321 Rear Section Lower | 1 | | AN960-516 | Washer | 6 |
| 9 | 97-31186-200 | Frame - Fuselage Sta. 248 Rear | 1 | | AN4-10A | Bolt | 4 |
| 10 | 73-31334 | Angle - Fuselage Sta. 256 Rear Section Center L.H. | 1 | | AN960-416 | Washer | 7 |
| | 73-31334-1 | Angle - Fuselage Sta. 256 Rear Section Center R.H. | 1 | 25 | 73-31123 | Fitting - Fus. Sta. 248 Longeron Joint Rear L.H. | 1 |
| 11 | 73-31167 | Frame - Fuselage Sta. 264 Rear Section Center L.H. | 1 | 26 | 73-31123-1 | Fitting - Fus. Sta. 248 Longeron Joint Rear R.H. | 1 |
| | 73-31167-1 | Frame - Fuselage Sta. 264 Rear Section Center R.H. | 1 | 27 | 73-34517 | Bracket - Tail Wheel Steering Cable Pulley | 1 |
| 12 | 97-31166 | Frame - Fuselage Sta. 273.5 Rear Section Center L.H. | 1 | | AN4-6A | Bolt | 2 |
| | 97-31166-1 | Frame - Fuselage Sta. 273.5 Rear Section Center R.H. | 1 | | AC365-428 | Nut | 2 |
| 13 | 97-31168-10 | Frame - Fuselage Sta. 281 Rear Section Center L.H. | 1 | | AN960-416 | Washer | 2 |
| | 97-31168-1 | Frame - Fuselage Sta. 281 Rear Section Center R.H. | 1 | | B1251-8-9 | Screw | 4 |
| 14 | 73-31169 | Frame - Fuselage Sta. 291 Rear Section Center L.H. | 1 | | AC365-832 | Nut | 4 |
| | 73-31169-1 | Frame - Fuselage Sta. 291 Rear Section Center R.H. | 1 | 28 | 73-34527 | Lock - Tail Wheel Retracted Position (See Fig. No. 74) | 1 |
| 15 | 97-31170 | Frame - Fuselage Sta. 300 Rear Section Center | 1 | 29 | 91-52433 | Support - Rudder And Steerable Tail Wheel Control Bellcrank | 1 |
| 16 | 73-31171 | Frame - Fuselage Sta. 311.5 Rear Section Center | 1 | | AN4-12A | Bolt | 4 |
| 17 | 97-31108-3 | Stringer - Fuselage Sta. 248 To 273.5 Rear Section Upper L.H. | 1 | | AC365-420 | Nut | 4 |
| 18 | 73-31110-6 | Longeron - Rear Section Lower L.H. | 1 | | AN960-416 | Washer | 12 |
| | | | | 30 | 73-31292 | Bracket - Tail Wheel Lock Cable Control Pulley (See Fig. No. 74) | 1 |
| | | | | 31 | 73-34161 | Lock - Tail Wheel Down Position | 1 |
| | | | | | AN4-6A | Bolt | 6 |
| | | | | | AN4-7A | Bolt | 4 |
| | | | | | AC365-428 | Nut | 10 |
| | | | | | AN960-416 | Washer | 20 |
| | | | | 32 | 73-31067 | Support - Fuselage Tail Wheel Door Operating Link | 2 |



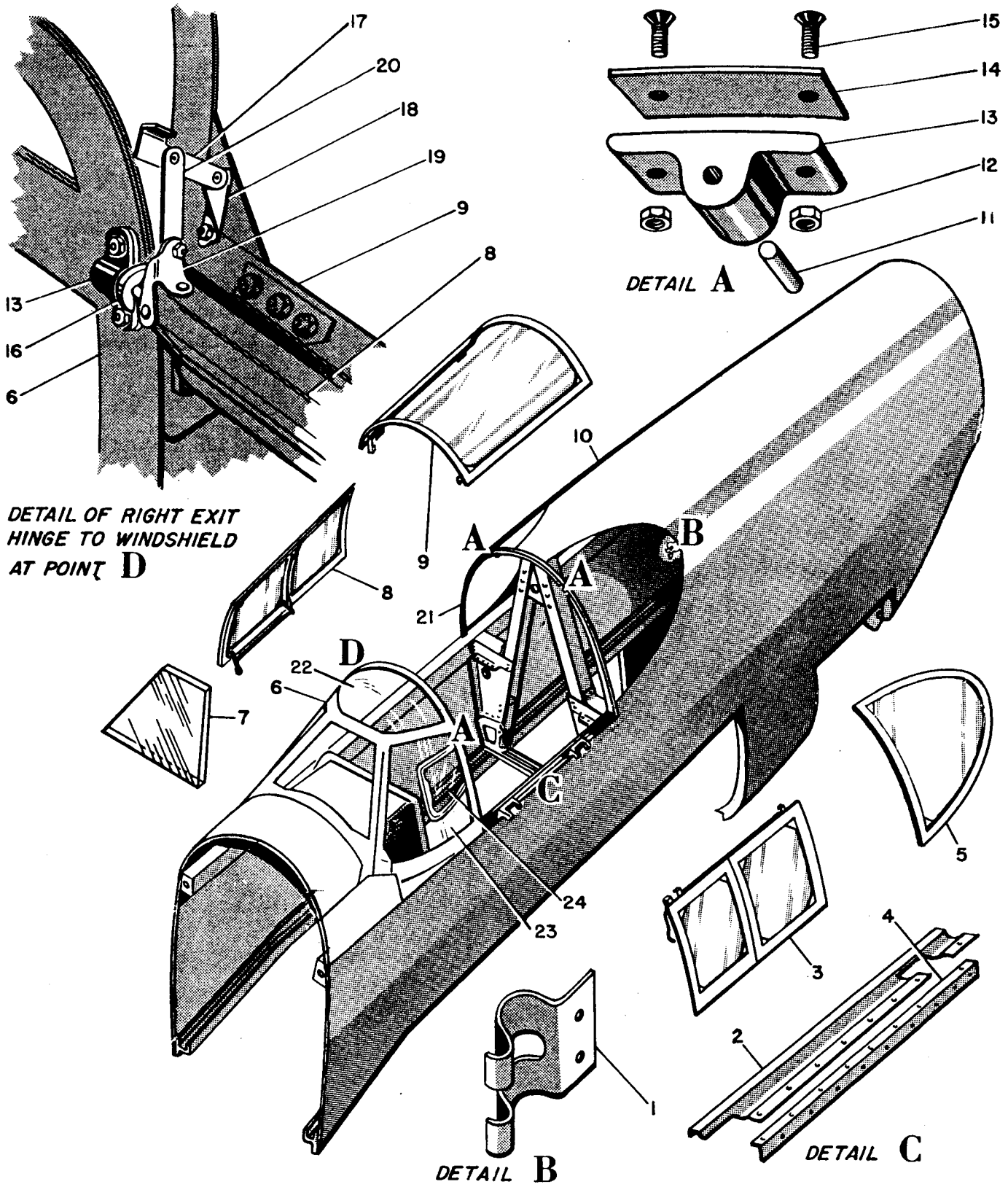
FUSELAGE REAR SECTION FRAME

FIGURE No. 89

COCKPIT ENCLOSURE

FIGURE No. 90

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|--|----------|---------|-------------|---|----------|
| 1 | 73-310159 | Spring - Window Retaining | 2 | 17 | 99-318116 | Link - Exit Hatch Upper Panel | 1 |
| 2 | 73-318135 | Cover - Emergency Release Left | 1 | | | Stop | 1 |
| 3 | 73-31848-20 | Exit Hatch - Cockpit Left Side (See Fig. No. 91) | | | B1071-4-5 | Spacer | 1 |
| 4 | 73-31346 | Cover - Emergency Release Right | 1 | 18 | AN960-6 | Washer | 1 |
| 5 | 73-31830 | Panel - Cockpit Rear Left Side (See Fig. No. 91) | | 18 | 73-318114 | Fitting - Exit Hatch Upper Panel | 1 |
| | 73-31830-1 | Panel - Cockpit Rear Right Side (See Fig. No. 91) | | 19 | 73-318134 | Bracket - Exit Hatch Upper Panel | 1 |
| 6 | 83-31826-100 | Windshield - Cockpit Enclosure | 1 | 20 | 73-318115 | Plate - Exit Hatch Upper Panel | 1 |
| 7 | 83-31828 | Windshield - Front Glass Cockpit Enclosure | 1 | 21 | 73-31254 | Support - Cockpit Enclosure Rear | 1 |
| 8 | 73-31835-2 | Exit Hatch - Cockpit Right Side (See Fig. No. 91) | | 22 | 83-318180 | Sheet - Windshield Upper Transparent | 1 |
| 9 | 73-318144-2 | Cockpit Upper Exit Hatch (See Fig. No. 91) | | 23 | 99-31827 | Sheet - Windshield Side Transparent L.H. | 1 |
| 10 | 99-31111 | Fuselage - Center Section (Includes Firewall) | 1 | | 99-31827-1 | Sheet - Windshield Side Transparent R.H. | 1 |
| 11 | 73-31271-2 | Pin - Side Panel Attaching | 1 | 24 | 99-31827-3 | Sheet - Windshield Transparent Vent | 1 |
| | 73-31271-4 | Pin - Side Panel Attaching | 1 | | 99-318135 | Frame - Vent Window | 1 |
| 12 | AC365-832 | Nut | 4 | | 99-318105 | Hook Assem. - Vent Window | 1 |
| 13 | 73-31271 | Fitting - Cockpit Enclosure Exit Hatch Attaching L.H. | 2 | | 99-318137 | Hinge - Vent Window | 1 |
| | 73-31271-3 | Fitting - Exit Hatch Attaching R.H. | 2 | | 99-318140 | Handle - Vent Window | 1 |
| | | | 4 | | 99-318138 | Fitting - Vent Window Latch | 1 |
| | | | 4 | | 99-318139 | Bracket - Vent Window Latch | 1 |
| 14 | 83-318179 | Shim - Exit Hatch Fitting | 4 | | | | |
| 15 | B1248-832-10 | Screw | 4 | | | | |
| 16 | 73-31890 | Hook - Exit Hatch Panel Attaching Front | 1 | | | | |



DETAIL OF RIGHT EXIT
HINGE TO WINDSHIELD
AT POINT D

DETAIL A

DETAIL B

DETAIL C

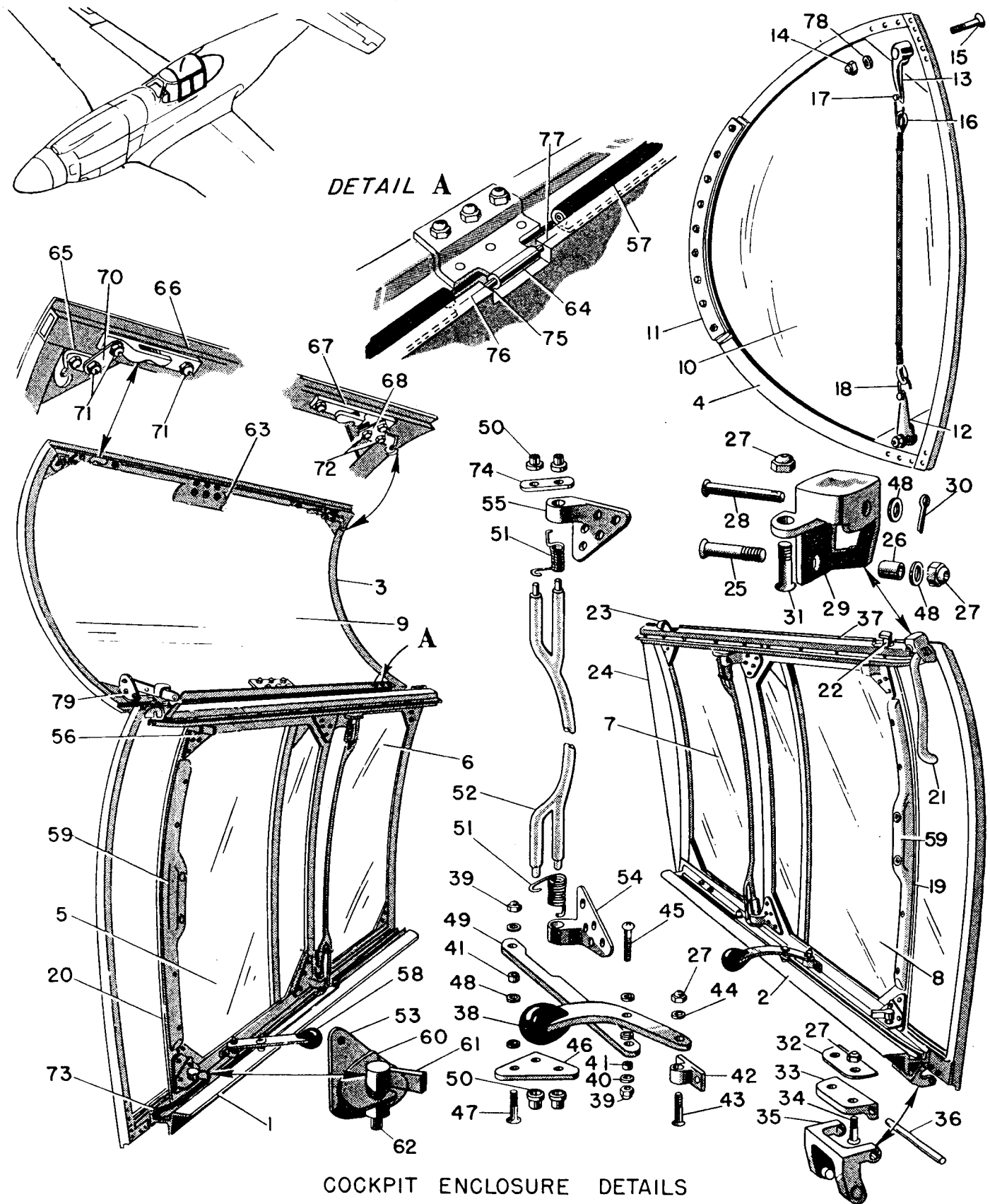
COCKPIT ENCLOSURE

FIGURE No. 90
RESTRICTED

COCKPIT ENCLOSURE DETAILS

FIGURE No. 91

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|---------------|--|----------|---------|---------------|---|--|
| 1 | 73-31835-10 | Panel - Cockpit Enclosure Exit Hatch Right Side Complete | 1 | 35 | 73-31816 | Hinge - Exit Hatch Side Panel Lower L.H. | 2 |
| 2 | 73-31848-20 | Panel - Cockpit Enclosure Exit Hatch Left Side Complete | 1 | | 73-31825 | Support - Complete | 2 |
| 3 | 73-31829 | Panel - Cockpit Enclosure Exit Hatch Upper Complete | 1 | | B1248-428-13 | Screw | 4 |
| 4 | 73-31830 | Panel - Cockpit Enclosure Complete Rear L.H. | 1 | | AC365-428 | Nut | 4 |
| | 73-31830-1 | Panel - Cockpit Enclosure Complete Rear R.H. | 1 | 36 | 73-31810 | Pin - Exit Hatch Left Side Panel Hinge | 2 |
| 5 | 73-31836-3 | Transparent Sheet - Cockpit Sliding R.H. | 1 | 37 | C573-28-8 | Rubber Extrusion | 2 |
| 6 | 73-31835-2 | Transparent Sheet - Cockpit Right Side | 1 | 38 | 91-318105 | Lever - Cockpit Enclosure Sliding Panel Left Complete | 1 |
| 7 | 73-31848-2 | Transparent Sheet - Cockpit Exit Hatch Left Side | 1 | | 39 | AC365-832 | Nut |
| 8 | 73-31836-2 | Transparent Sheet - Cockpit Sliding L.H. | 1 | | 40 | AN960-8 | Washer |
| 9 | 73-31829-2 | Transparent Sheet - Cockpit Exit Hatch Upper | 1 | | 41 | B1070-8-6 | Spacer |
| 10 | 73-31830-2 | Transparent Sheet - Cockpit Rear L.H. | 1 | | 42 | 73-318166 | Boss - Sliding Panel Front Lower |
| | 73-31830-3 | Transparent Sheet - Cockpit Rear R.H. | 1 | | 43 | B1289-10-16 | Screw |
| 11 | 73-31830-8 | Bulb - Cockpit Rear L.H. | 1 | | 44 | B1070-10-4 | Spacer |
| | 73-31830-9 | Bulb - Cockpit Rear R.H. | 1 | | 45 | B1287-8-11 | Screw |
| | 73-31830-11 | Shim - Cockpit Rear | 2 | | 46 | 73-318159 | Lever - Sliding Panel Rear |
| | B1289-6-12 | Screw | 18 | | 47 | B1289-8-11 | Screw |
| | AC365-632 | Nut | 18 | | 48 | AN960-10 | Washer |
| | AN960-6 | Washer | 18 | | 49 | 73-318160-2 | Rod - Sliding Panel Operating |
| 12 | 73-31833 | Handle - Cockpit Enclosure Rear Panel Locking Complete (Used On L.H. Bottom) | 1 | | 50 | 73-31846 | Bushing - Sliding Panel |
| | 73-31833-1 | Handle - Cockpit Enclosure Rear Panel Locking Complete (Used On L.H. Top) | 1 | | 51 | 73-31840 | Spring - Sliding Panel L.H. |
| 13 | 73-31833-1 | Handle - Cockpit Enclosure Rear Panel Locking Complete (Used On R.H. Bottom) | 1 | | | 73-31840-1 | Spring - Sliding Panel R.H. |
| | 73-31833 | Handle - Cockpit Enclosure Rear Panel Locking Complete (Used On R.H. Top) | 1 | | 52 | 73-31837 | Rod - Sliding Panel Complete |
| | 73-31849 | Spring - Cockpit Enclosure Rear Panel Handle Locking | 4 | | 53 | 102-318192-1 | Fitting - Panel Position Pin Support Complete R.H. |
| | 73-31850 | Pin - Rear Panel Locking | 4 | | | 102-318192 | Fitting - Panel Position Pin Support Complete L.H. |
| | 73-31834 | Plate - Rear Panel Locking | 4 | 54 | 73-31838 | Boss - Panel Rear Lower L.H. | 1 |
| 14 | AC365-428 | Nut | 8 | | 73-31838-1 | Boss - Panel Rear Lower R.H. | 1 |
| 15 | B1248-428-24 | Screw | 4 | 55 | 73-31839 | Boss - Panel Rear Upper L.H. | 1 |
| | B1009-4-21 | Spacer | 4 | | 73-31839-1 | Boss - Panel Rear Upper R.H. | 1 |
| 16 | 73-318152 | Retainer - Cockpit Enclosure Rear Panel Handle Complete | 2 | 56 | 73-31843-1 | Boss - Panel Front Upper R.H. | 1 |
| | 73-318152-2 | Cord - Shock | 2 | | 73-31843 | Boss - Panel Front Upper L.H. | 1 |
| | B985-12-40 | Washer | 4 | 57 | C573-29 | Rubber Extrusion | 1 |
| | B1071-3-5 | Spacer | 4 | 58 | 73-318158 | Lever - Sliding Panel Complete R.H. | 2 |
| 18 | 73-318151 | Hook - Rear Panel | 4 | 59 | 73-318147 | Handle - Sliding Panel | 1 |
| 19 | 73-31836-20 | Panel - Cockpit Enclosure Sliding Complete L.H. | 1 | | B1289-8-21 | Screw | 4 |
| 20 | 73-31836-21 | Panel - Cockpit Enclosure Sliding Complete R.H. | 1 | | AC365-832 | Nut | 4 |
| 21 | 73-31857 | Handle - Cockpit Enclosure Exit Hatch Side Panel Locking Inside Complete | 1 | 60 | 102-318191-1 | Fitting - Sliding Panel Positioning Pin Support R.H. | 1 |
| | 73-31857-3 | Pin - Exit Hatch Side Panel Locking Inside Panel | 1 | | 102-318191 | Fitting - Sliding Panel Positioning Pin Support L.H. | 1 |
| 22 | 73-31860 | Hook - Exit Hatch Side Panel Locking Front | 1 | 61 | 97-318189-1 | Cam - Sliding Panel Positioning Pin R.H. | 1 |
| 23 | 73-31861 | Hook - Exit Hatch Side Panel Locking Front | 1 | | 97-318189 | Cam - Sliding Panel Positioning Pin L.H. | 1 |
| 24 | 73-318168 | Pin - Exit Hatch Left Side Panel Frame Retaining | 1 | 62 | 97-318190 | Pin - Sliding Panel Positioning | 2 |
| 25 | B1289-10-16 | Screw | 1 | | 97-318188 | Spring - Sliding Panel Positioning | 2 |
| 26 | 73-31803 | Spacer - Exit Hatch Side Panel Bolt | 1 | | 102-318192-2 | Lockpin - Sliding Panel Positioning | 2 |
| 27 | AC365-1032 | Nut | 6 | 63 | 73-318165 | Handle - Exit Hatch Upper Panel | 1 |
| 28 | AN393-33 | Pin | 1 | 64 | 73-31820 | Hinge - Exit Hatch Top Panel Complete | 2 |
| 29 | 73-31856 | Bracket - Exit Hatch Side Panel Locking | 1 | 65 | 73-31890-1 | Hook - Exit Hatch Panel Attaching Front | 1 |
| 30 | AN380-2-2 | Pin | 1 | | 73-31851 | Catch - Exit Hatch Upper Locking | 1 |
| 31 | B1248-1032-10 | Screw | 1 | 66 | 73-31851-1 | Catch - Exit Hatch Lower Locking | 1 |
| 32 | 73-318164 | Shim - Exit Hatch Left Hinge | 2 | 67 | 73-318156 | Plate - Exit Hatch Upper Corner Stiffener | 1 |
| 33 | 73-31817 | Hinge - Exit Hatch Panel L.H. (Rough Forging) | 2 | 68 | 73-31819-3 | Hook - Exit Hatch Side Panel Attaching Rear | 1 |
| 34 | B1248-1032-13 | Screw | 4 | 69 | 73-318157 | Bar - Exit Hatch Upper Corner Stiffener | 1 |
| | | | | 70 | 73-318157 | Bar - Exit Hatch Upper Corner Stiffener | 1 |
| | | | | 71 | B1248-1032-12 | Screw | 3 |
| | | | | | AC365-1032 | Nut | 8 |
| | | | | | B1071-D6-6 | Spacer | 5 |
| | | | | 72 | B1248-1032-14 | Screw | 5 |
| | | | | | AN960-10 | Washer | 3 |
| | | | | 73 | 73-31804-1 | Lower Track - Exit Hatch Side Panel Complete R.H. | 1 |
| | | | | | 73-31804 | Lower Track - Exit Hatch Side Panel Complete L.H. | 1 |
| | | | | 74 | 73-31847 | Plate - Cockpit Enclosure Sliding Panel | 2 |
| | | | | 75 | 73-31879 | Pin - Exit Hatch Hinge | 2 |
| | | | | 76 | 73-31821 | Hinge - Exit Hatch Right Side Panel L.H. | 2 |
| | | | | 77 | 73-31821-1 | Hinge - Exit Hatch Right Side Panel R.H. | 2 |
| | | | | 78 | AN960-416 | Washer | 1 |
| | | | | 79 | | (See Fig. No. 90) | |



COCKPIT ENCLOSURE DETAILS

FIGURE No. 91

COCKPIT EMERGENCY RELEASE MECHANISM

FIGURE No. 92

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|------------------|---|----------|---------|--------------|---|----------|
| 1 | 73-31881 | Handle - Emergency Release Cockpit Exit Hatch | 1 | 16 | 73-31892 | Rod - Emergency Release Actuating Right | 1 |
| 2 | 73-31883 | Bracket - Emergency Release Cockpit Exit Hatch Handle | 1 | 17 | AN315-D4R | Nut | 2 |
| | B1248-1032-11 | Screw | 1 | 18 | 73-31813 | Support - Emergency Release Cockpit Exit Hatch Complete | 4 |
| | AC365-1032 | Nut | 1 | 19 | 73-31825 | Support - Right Side Complete (See Fig. No. 91) | |
| 3 | 73-31884-2 | Pin - Emergency Release Cockpit Exit Hatch | 1 | | 73-31816 | Hinge - Left Side Complete (See Fig. No. 91) | |
| 4 | 73-31884 | Fitting - Emergency Release Cockpit Exit Hatch Complete | 1 | 20 | AN4-6A | Bolt | 8 |
| | | | | 21 | AC365-428 | Nut | 9 |
| 5 | 73-31885 | Rod - Emergency Release Cockpit Exit Hatch Tie | 1 | 22 | 91-318150 | Bar - Cockpit Hinge Release Lifting Complete | 4 |
| 6 | 73-318108 | Pin - Emergency Release Cockpit Exit Hatch Tie Rod | 1 | 23 | 73-318149 | Tube - Cockpit Enclosure Spring Housing | 4 |
| 7 | B985AL-25-20-091 | Washer | 1 | 24 | 49-31813 | Spring - Latch | 4 |
| 8 | AN380-2-2 | Pin | 2 | 25 | AN380-3-3 | Pin | 5 |
| 9 | 73-31886 | Block - Emergency Release Cockpit Exit Hatch Tie | 1 | 26 | 310621-B-3 | Eye | 1 |
| | | | | 27 | 73-31891 | Bearing - Emergency Hatch Release Rod | 1 |
| 10 | AC365-525 | Nut | 1 | 28 | B1287-10-22 | Screw | 2 |
| 11 | AN393-19 | Pin | 1 | 29 | AC365-1032 | Nut | 2 |
| 12 | AN165-16S | Eye | 1 | 30 | 73-31893 | Rod - Emergency Release Actuating Left | 1 |
| 13 | AN155-16S | Turnbuckle | 1 | 31 | 73-318107 | Fitting - Exit Hatch Emergency Release Rod | 1 |
| | AN995-C40-18 | Lockwire | 1 | | | | |
| 14 | 310621-L16D-3 | Terminal - N.A.F. | 1 | 32 | AN393-19 | Pin | 1 |
| 15 | 73-31897 | Cable - Emergency Release (Includes Turnbuckle & Eye) | 1 | 33 | B1009-R4-45 | Bushing | 1 |
| | 73-31897-3 | Cable - Emergency Release (Less Turnbuckle & Eye) | 1 | 34 | B1248-428-38 | Screw | 1 |

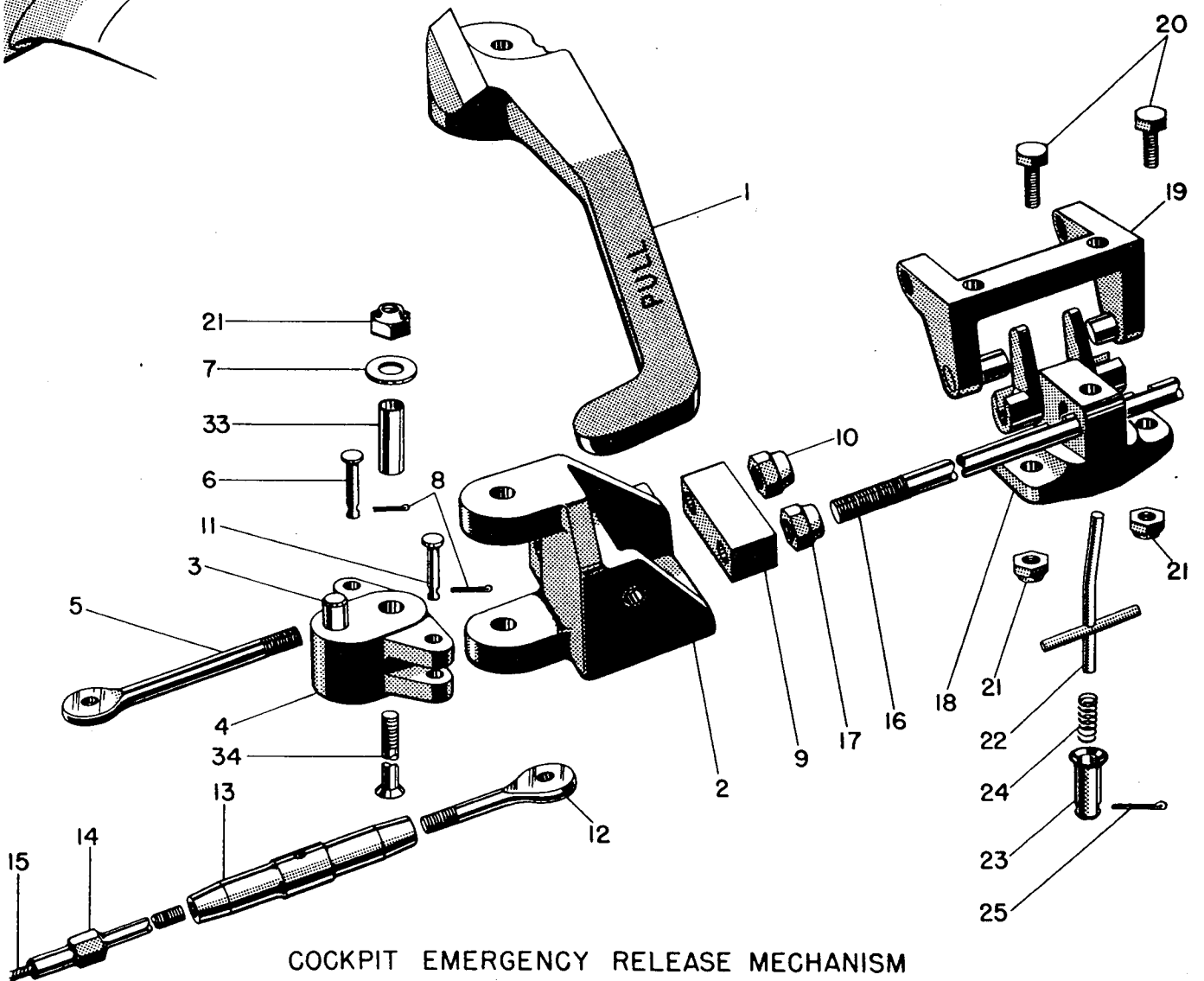
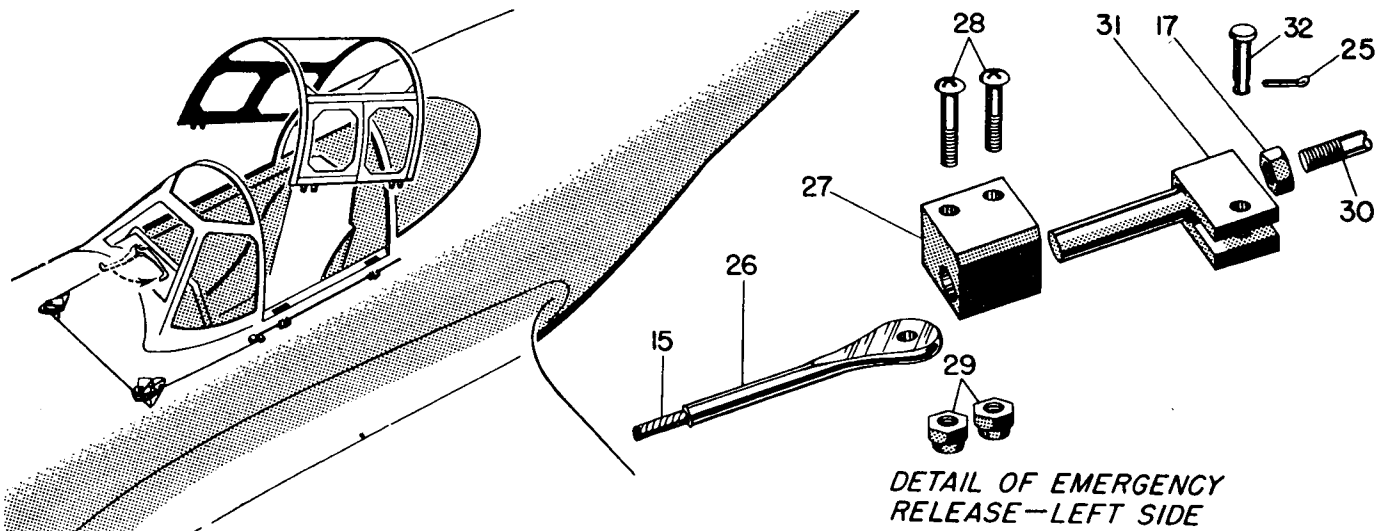
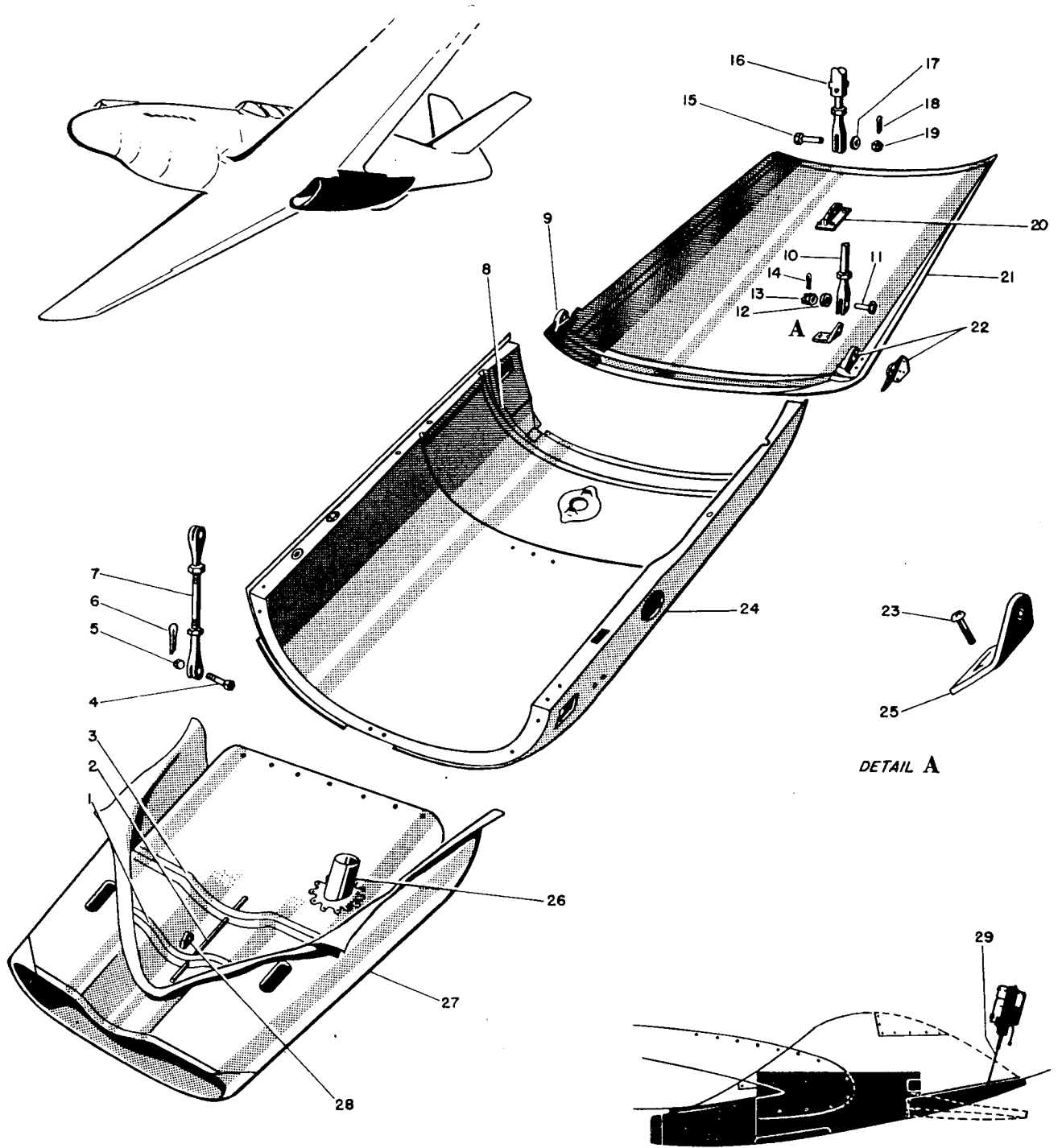


FIGURE No. 92
RESTRICTED

RADIATOR AIR SCOOP

FIGURE No. 93

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|---------------|--|----------|
| 1 | 97-31048 | Stiffener - Fuselage Sta. 142-7/8 Radiator Air Duct Top Skin | 1 | 17 | AN960-416L | Washer | 1 |
| 2 | 99-54025 | Tube - Battery Vent Intake | 1 | 18 | AN380-2-2 | Pin | 1 |
| 3 | 99-31049 | Stiffener - Fus. Sta. 148-1/2 Radiator Air Duct Top Skin | 1 | 19 | AN320-4 | Nut | 1 |
| 4 | AN4-7 | Bolt | 2 | 20 | 99-31010 | Fitting - Fuselage Radiator Air Scoop Strut Attaching | 1 |
| 5 | AN310-4 | Nut | 2 | | AC365-1032 | Nut | 4 |
| 6 | AN380-2-2 | Pin | 2 | | AN960-10 | Washer | 4 |
| 7 | 99-31080 | Clevis - Fuselage Sta. 145-1/4 Front Radiator Air Scoop To Wing Attaching | 1 | | B1248-1032-22 | Screw - 100° Recessed Flat Head | 2 |
| 8 | 99-31340 | Frame - Fuselage Sta. 197-15/16 Lower Canted | 1 | | B1248-1032-20 | Screw - 100° Recessed Flat Head | 2 |
| 9 | 99-31020-1 | Fitting - Fuselage Radiator Rear Air Scoop Hinge R.H. | 1 | 21 | 99-31025 | Scoop - Fus. Radiator Air Rear | 1 |
| 10 | 99-58760 | Rod - Hydraulic Pre-Selective Scoop Control Arm Actuating | 1 | 22 | 99-31020 | Fitting - Fus. Radiator Rear Air Scoop Hinge L.H. | 1 |
| 11 | AN3-6 | Bolt | 1 | 23 | 21803-8-8 | Screw | 2 |
| 12 | AN960-10 | Washer | 1 | 24 | 99-31016 | Cover - Fus. Sta. 162 To 200-3/4 Radiator Access | 1 |
| 13 | AN310-3 | Nut | 1 | 25 | 99-58752 | Angle - Hydraulic Pre-Selective Control Scoop Attaching | 1 |
| 14 | AN380-2-2 | Pin | 1 | 26 | 73-53333 | Tube - Ventilator System Air Scoop Intake | 1 |
| 15 | AN24-13 | Bolt | 1 | 27 | 99-310119 | Fairing - Fus. Radiator Air Scoop Front Removable | 1 |
| 16 | 99-58487 | Rod - Hydraulic Radiator Air Scoop Operating Strut | 1 | 28 | 99-31084 | Fitting - Fus. Sta. 145-1/2 Front Radiator Air Scoop To Wing Attaching | 1 |
| | | | | 29 | 99-58040 | Strut - Hydraulic Radiator Air Scoop Operating (See Fig. No. 28)* | |



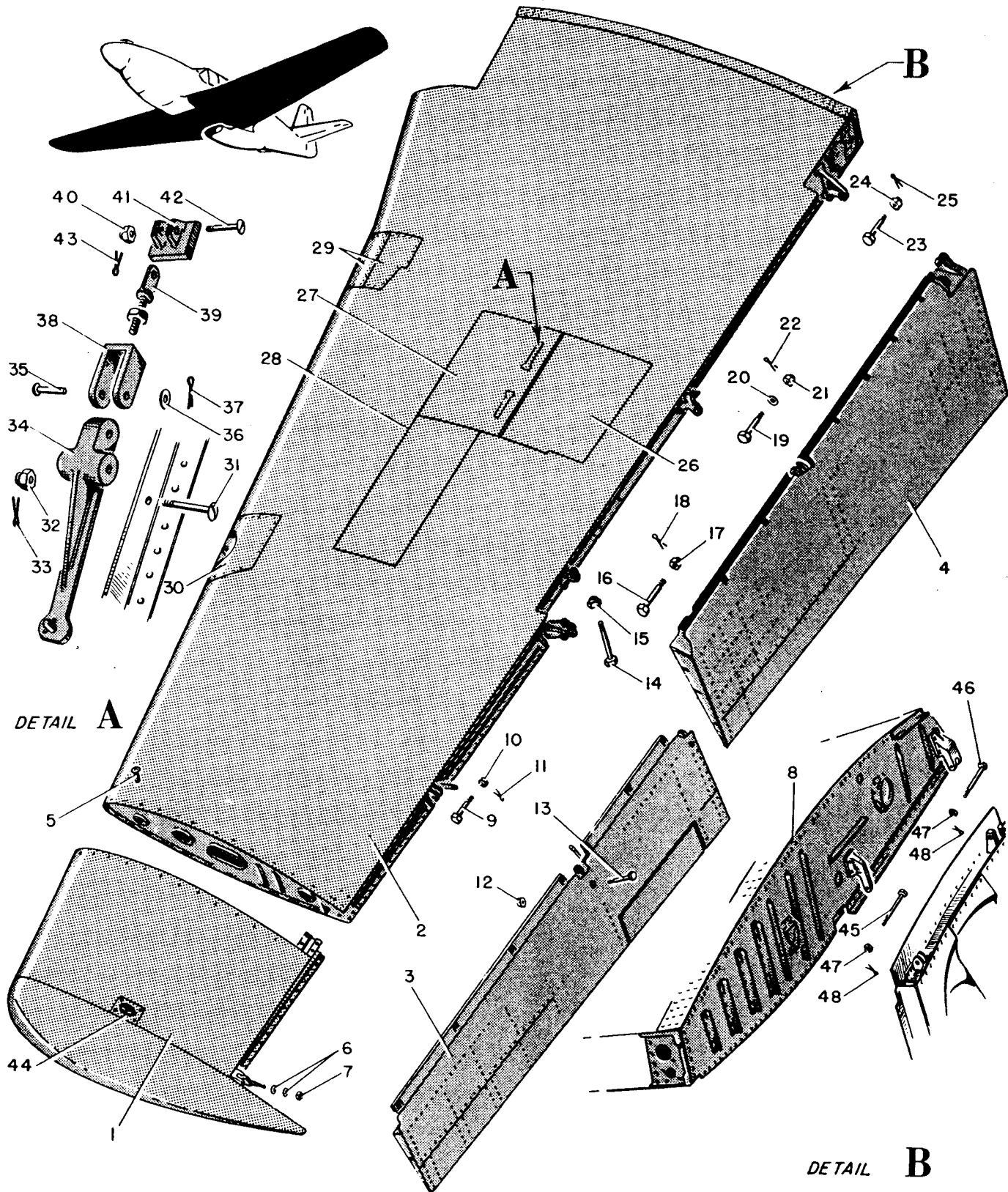
RADIATOR AIR SCOOP

FIGURE No. 93

WING COVERED-UPPER SURFACE

FIGURE No. 94

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|---------------|--|----------|---------|---------------|---|----------|
| 1 | 83-14011 | Tip - Left Wing (See Fig. No. 96) | | 19 | AN6-21 | Bolt | 2 |
| | 73-14011 | Tip - Right Wing (See Fig. No. 96) | | 20 | AN960-616 | Washer | 2 |
| 2 | 99-14000 | Wing - Left Complete (See Fig. No. 96) | | 21 | AN310-6 | Nut | 2 |
| | 99-14000-1 | Wing - Right Complete (See Fig. No. 96) (For Lower Surface See Page 95) | | 22 | AN380-3-3 | Pin | 2 |
| 3 | 73-16000 | Aileron - Left (See Fig. No. 97) | | 23 | AN5-20 | Bolt | 2 |
| | 73-16000-1 | Aileron - Right (See Fig. No. 97) | | 24 | AN310-5 | Nut | 2 |
| 4 | 73-18001 | Flap - Left (See Fig. No. 98) | | 25 | AN380-2-2 | Pin | 2 |
| | 73-18001-1 | Flap - Right (See Fig. No. 98) | | 26 | 97-14052-200 | Door - Rear Left Wing Gun | 1 |
| 5 | B1248-1032-10 | Screw (39 Req. Left Wing, 38 Req. Right Wing) | 77 | 27 | 97-14052-201 | Door - Rear Right Wing Gun | 1 |
| | AC366F1032 | Anchor Nut (39 Req. Left Wing, 38 Req. Right Wing) | 77 | 28 | 97-14050-200 | Door - Front Left Wing Gun | 1 |
| 6 | AN960-516 | Washer | 4 | | 97-14050-201 | Door - Front Right Wing Gun | 1 |
| 7 | AC365-524 | Nut | 2 | 28 | 99-14051 | Door - Left Wing Ammunition Access | 1 |
| 8 | AN5-11A | Bolt | 49 | | 99-14051-1 | Door - Right Wing Ammunition Access | 1 |
| | AC365-524 | Nut | 51 | 29 | 73-14032 | Cover - Left Wing Leading Edge | 1 |
| | AN960-516 | Washer | 47 | | 73-14032-1 | Cover - Right Wing Leading Edge | 1 |
| | AN8-17A | Bolt | 1 | | B1248-1032-10 | Screw | 64 |
| | AN8-16A | Bolt | 1 | 30 | 97-14122 | Cover - Landing Light (Left Wing Only) | 1 |
| | AN960-816 | Washer | 2 | 31 | AN23-34 | Bolt | 4 |
| | AC365-820 | Nut | 3 | 32 | AN310-3 | Nut | 4 |
| | AN6-11A | Bolt | 5 | 33 | AN380-2-2 | Pin | 4 |
| | AN960-616 | Washer | 75 | 34 | 97-14178 | Latch - Gun Door | 2 |
| | AC365-624 | Nut | 41 | 35 | AN393-31 | Pin | 2 |
| | AN6-14A | Bolt | 30 | 36 | AN960-10L | Washer | 2 |
| | AN8-21A | Bolt | 1 | 37 | AN380-2-2 | Pin | 2 |
| | AN6-10A | Bolt | 5 | 38 | 97-14180 | Yoke - Gun Door Latch | 2 |
| | AN5-10A | Bolt | 2 | 39 | 97-14182 | Eyebolt - Gun Door Latch | 2 |
| 9 | AN3-11 | Bolt (Left Wing) | 1 | | AN316-4R | Nut | 2 |
| | AN3-10 | Bolt (Right Wing) | 1 | 40 | AN310-3 | Nut | 2 |
| | 73-52576 | Bushing - Push Rod | 2 | 41 | 97-14179 | Latch - Gun Door | 2 |
| 10 | AN310-3 | Nut | 2 | 42 | AN23-15 | Bolt | 2 |
| 11 | AN380-2-2 | Pin | 2 | 43 | AN380-2-2 | Pin | 2 |
| 12 | AC365-428 | Nut | 2 | 44 | 73-54226 | Cover - Tip Light (Upper Left Wing, Lower Right Wing) | 1 |
| 13 | AN4-20A | Bolt | 2 | | 73-54226-1 | Cover - Tip Light (Lower Left Wing, Upper Right Wing) | 1 |
| 14 | AN5-27A | Bolt | 2 | | B1289-8-8 | Screw | 8 |
| 15 | AC365-524 | Nut | 2 | 45 | AN6-22 | Bolt | 2 |
| 16 | AN4-11 | Bolt | 2 | 46 | AN6-20 | Bolt | 2 |
| 17 | AN310-4 | Nut | 2 | 47 | AN310-6 | Nut | 4 |
| 18 | AN380-2-2 | Pin | 2 | 48 | AN380-3-3 | Pin | 4 |



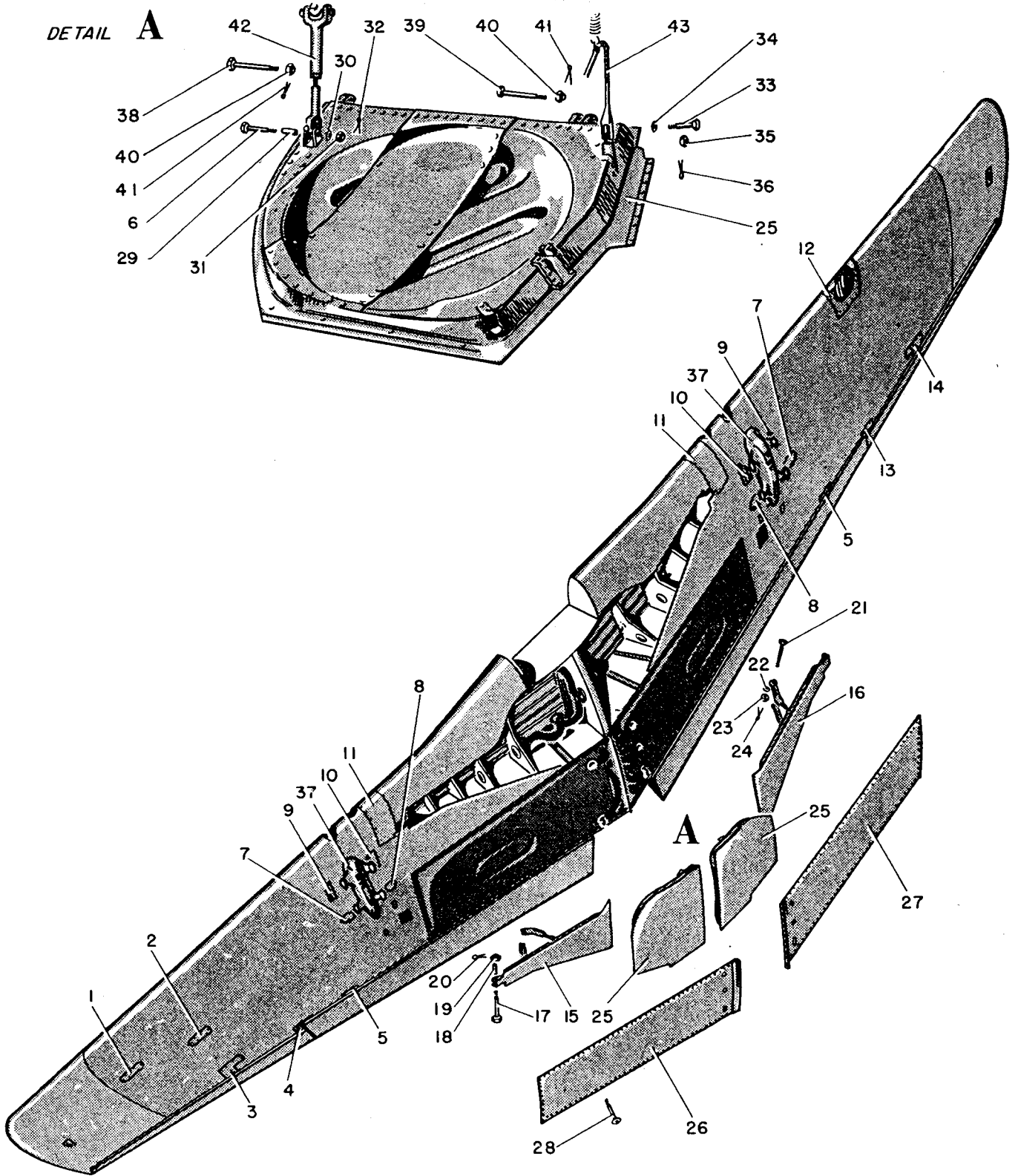
WING COVERED - UPPER SURFACE

FIGURE No. 94

WING COVERED-LOWER SURFACE

FIGURE No. 95

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|---------------|---|----------|---------|---------------|------------------------------------|----------|
| 1 | 97-14053 | Cover - Right Wing Access | 1 | 16 | 73-33302 | Fairing - Left Landing Gear | 1 |
| 2 | 97-71054 | Cover- Right Wing Antenna Mast Support | 1 | 17 | AN6-49 | Bolt | 2 |
| | B1289-10-8 | Screw | 22 | 18 | B1009-R6-124 | Spacer | 2 |
| 3 | 73-14311-1 | Door - Aileron Hinge Access R.H. | 1 | 19 | AN310-6 | Nut | 2 |
| | B1248-832-8 | Screw | 10 | 20 | AN380-3-3 | Pin | 2 |
| 4 | 73-14269-1 | Door - Aileron Sector Access R.H. | 1 | 21 | AN5-26 | Bolt | 2 |
| | B1248-832-8 | Screw | 5 | | AN5-27 | Bolt | 2 |
| 5 | 73-14271 | Door - Aileron Cable Inspection | 2 | 22 | B985-40-32-64 | Washer | 4 |
| | B1289-832-7 | Screw | 6 | | B985-21-28-64 | Washer | 8 |
| 6 | AN6-16 | Bolt | 2 | 23 | AN310-5 | Nut | 4 |
| 7 | 97-48238 | Pad - Droppable Fuel Tank Rear L.H. | 1 | 24 | AN380-C4-4 | Pin | 4 |
| | 97-48238-1 | Pad - Droppable Fuel Tank Rear R.H. | 1 | 25 | 73-33301 | Door - Left Wing Wheel Fairing | 1 |
| | B1251-1032-8 | Screw | 8 | | 73-33301-1 | Door - Right Wing Wheel Fairing | 1 |
| | AC365-1032 | Nut | 8 | 26 | 99-14060-1 | Door - Right Wing Fuel Tank | 1 |
| 8 | 97-48239 | Pad - Droppable Fuel Tank Rear L.H. | 1 | 27 | 99-14060 | Door - Left Wing Fuel Tank | 1 |
| | 97-48239-1 | Pad - Droppable Fuel Tank Rear R.H. | 1 | 28 | B1251-428-14 | Screw | 174 |
| | B1251-1032-10 | Screw | 4 | | B1251-428-12 | Screw | 90 |
| | B1251-1032-8 | Screw | 4 | | AN5-10A | Bolt | 8 |
| | AC365-1032 | Nut | 8 | | AN6-15A | Bolt | 8 |
| 9 | 97-48247 | Pad - Droppable Fuel Tank Front L.H. | 1 | | AN960-516 | Washer | 16 |
| | 97-48247-1 | Pad - Droppable Fuel Tank Front R.H. | 1 | | AC365-524 | Nut | 8 |
| | B1251-832-9 | Screw | 6 | 29 | B1070-616-6 | Spacer | 2 |
| 10 | 97-48250 | Pad - Droppable Fuel Tank Front L.H. | 1 | 30 | AN960-616 | Washer | 2 |
| | 97-48250-1 | Pad - Droppable Fuel Tank Front R.H. | 1 | 31 | AN310-6 | Nut | 2 |
| | B1251-832-9 | Screw | 4 | 32 | AN380-3-3 | Pin | 2 |
| | B1251-832-10 | Screw | 2 | 33 | AN25-15 | Bolt | 2 |
| 11 | 73-14032 | Cover - Left Wing Leading Edge | 1 | 34 | AN960-516 | Washer | 2 |
| | 73-14032-1 | Cover - Right Wing Leading Edge | 1 | 35 | AN320-5 | Nut | 2 |
| | B1248-1032-10 | Screw | 64 | 36 | AN380-2-2 | Pin | 2 |
| 12 | 97-14122 | Cover - Landing Light (Left Wing Only)(See Fig. No. 12) | 1 | 37 | 97-63019 | Rack - Bomb (See Fig. No. 6) | 1 |
| 13 | 73-14269 | Door - Aileron Sector Access L.H. | 1 | 38 | AN6-20 | Bolt | 2 |
| | B1248-832-8 | Screw | 5 | 39 | AN6-22 | Bolt | 2 |
| 14 | 73-14311 | Door - Aileron Hinge Access L.H. | 1 | 40 | AN310-6 | Nut | 4 |
| | B1248-832-8 | Screw | 10 | 41 | AN380-3-3 | Pin | 4 |
| 15 | 73-33302-1 | Fairing - Right Landing Gear | 1 | 42 | 73-33320 | Link - Fairing Door Actuating L.H. | 1 |
| | | | | 43 | 73-33320-1 | Link - Fairing Door Actuating R.H. | 1 |
| | | | | | 73-33340 | Cable - Fairing Door Retaining | 2 |



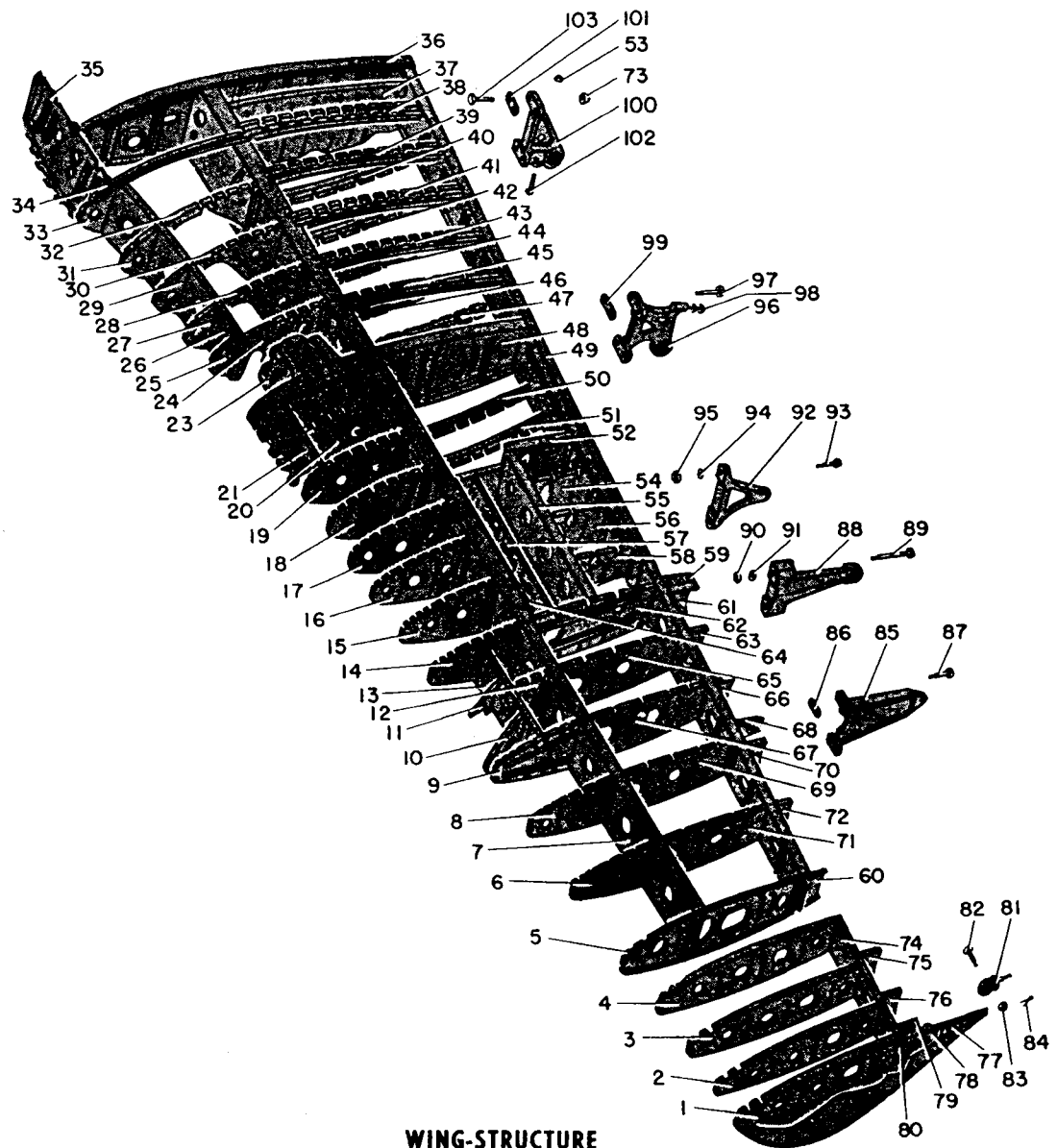
WING COVERED-LOWER SURFACE

FIGURE No. 95

WING-STRUCTURE

FIGURE No. 96

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|--------------|--|----------|---------|--------------|--|----------|
| 1 | 73-14017 | Rib - Wing Tip Sta. 215 L.H. | 1 | 42 | 99-14060-28 | Former - Lower Sta. 27 L.H. | 1 |
| | 73-14017-1 | Rib - Wing Tip Sta. 215 R.H. | 1 | | 99-14060-29 | Former - Lower Sta. 27 R.H. | 1 |
| 2 | 73-14016 | Rib - Wing Tip Sta. 207-7/8 L.H. | 1 | 43 | 99-14034-48 | Former - Lower Sta. 50 L.H. | 1 |
| | 73-14016-1 | Rib - Wing Tip Sta. 207-7/8 R.H. | 1 | | 99-14034-49 | Former - Lower Sta. 50 R.H. | 1 |
| 3 | 73-14025 | Rib - Sta. 200-3/8 | 2 | 44 | 99-14060-30 | Former - Lower Sta. 38-1/2 L.H. | 1 |
| 4 | 83-14014 | Rib - Sta. 191-7/8 L.H. | 1 | | 99-14060-31 | Former - Lower Sta. 38-1/2 R.H. | 1 |
| | 73-14014 | Rib - Sta. 191-7/8 R.H. | 1 | 45 | 73-14034-46 | Former - Upper Sta. 51-1/2 L.H. | 1 |
| 5 | 97-14490 | Rib - Sta. 190-1/2 L.H. | 1 | | 73-14034-47 | Former - Upper Sta. 61-1/2 R.H. | 1 |
| | 97-14490-1 | Rib - Sta. 190-1/2 R.H. | 1 | 46 | 99-14060-32 | Former - Lower Sta. 50 L.H. | 1 |
| 6 | 97-14478 | Rib - Nose Sta. 178-1/2 L.H. | 1 | | 99-14060-33 | Former - Lower Sta. 50 R.H. | 1 |
| | 97-14478-1 | Rib - Nose Sta. 178-1/2 R.H. | 1 | 47 | 99-14060-34 | Former - Lower Sta. 61-1/2 L.H. | 1 |
| 7 | 97-14004 | Spar - Front Sta. 0 To 190-1/2 L.H. | 1 | | 99-14060-35 | Former - Lower Sta. 61-1/2 R.H. | 1 |
| | 97-14004-1 | Spar - Front Sta. 0 To 190-1/2 R.H. | 1 | 48 | 99-14376 | Rib - Interm. Sta. 75 L.H. | 1 |
| | | | | | 99-14376-1 | Rib - Interm. Sta. 75 R.H. | 1 |
| 8 | 97-14466 | Rib - Nose Sta. 166.5 L.H. | 1 | 49 | 97-14005-200 | Spar - Rear Sta. 0 To 190-1/2 L.H. | 1 |
| | 97-14466-1 | Rib - Nose Sta. 166.5 R.H. | 1 | | 97-14005-201 | Spar - Rear Sta. 0 To 190-1/2 R.H. | 1 |
| 9 | 97-14455 | Rib - Nose Sta. 155.5 L.H. | 1 | 50 | 99-14386 | Former - Interm. Sta. 85-1/2 L.H. | 1 |
| | 97-14455-1 | Rib - Nose Sta. 155.5 R.H. | 1 | | 99-14386-1 | Former - Interm. Sta. 85-1/2 R.H. | 1 |
| 10 | 97-14454 | Rib - Nose Diagonal Sta. 155 | 2 | 51 | 97-14394 | Channel - Interm. Sta. 93-1/2 L.H. | 1 |
| 11 | 99-14444 | Rib - Nose Diagonal Sta. 144 | 2 | | 97-14394-1 | Channel - Interm. Sta. 93-1/2 R.H. | 1 |
| 12 | 97-14445 | Rib - Nose Sta. 145.5 L.H. | 1 | 52 | 99-14401 | Rib - Interm. Sta. 100-1/2 L.H. | 1 |
| | 97-14445-1 | Rib - Nose Sta. 145.5 R.H. | 1 | | 99-14401-1 | Rib - Interm. Sta. 100-1/2 R.H. | 1 |
| 13 | 97-14121 | Bulkhead - Landing Light Sta. 135.5 To 155.5 | 2 | 53 | AC365-524 | Nut | 2 |
| | | | | 54 | 99-14409 | Rib - Interm. Sta. 108-13/16 L.H. | 1 |
| 14 | 97-14435 | Rib - Nose Sta. 135.5 L.H. | 1 | | 99-14409-1 | Rib - Interm. Sta. 108-13/16 R.H. | 1 |
| | 97-14435-1 | Rib - Nose Sta. 135.5 R.H. | 1 | 55 | 99-14222 | Web - Rear Sta. 102-1/2 To 135-1/2 I.H. | 1 |
| 15 | 97-14425 | Rib - Nose Sta. 125.5 L.H. | 1 | | 99-14222-1 | Web - Rear Sta. 102-1/2 To 135-1/2 R.H. | 1 |
| | 97-14425-1 | Rib - Nose Sta. 125.5 R.H. | 1 | 56 | 99-14418 | Rib - Interm. Sta. 117-1/8 L.H. | 1 |
| 16 | 97-14417 | Rib - Nose Sta. 117-1/8 L.H. | 1 | | 99-14418-1 | Rib - Interm. Sta. 117-1/8 R.H. | 1 |
| | 97-14417-1 | Rib - Nose Sta. 117-1/8 R.H. | 1 | 57 | 97-14221 | Web - Interm. Sta. 100-1/2 To 135-1/2 L.H. | 1 |
| 17 | 97-14408 | Rib - Nose Sta. 108-13/16 L.H. | 1 | | 97-14221-1 | Web - Interm. Sta. 100-1/2 To 135-1/2 R.H. | 1 |
| | 97-14408-1 | Rib - Nose Sta. 108-13/16 R.H. | 1 | 58 | 99-14426 | Rib - Interm. Sta. 125-1/2 L.H. | 1 |
| 18 | 97-14400 | Rib - Nose Sta. 100-1/2 L.H. | 1 | | 99-14426-1 | Rib - Interm. Sta. 125-1/2 R.H. | 1 |
| | 97-14400-1 | Rib - Nose Sta. 100-1/2 R.H. | 1 | 59 | 97-14355 | Reinforcement - Lower Trailing Edge Skin L.H. | 1 |
| 19 | 97-14393 | Rib - Nose Sta. 93-1/2 L.H. | 1 | | 97-14355-1 | Reinforcement - Lower Trailing Edge Skin R.H. | 1 |
| | 97-14393-1 | Rib - Nose Sta. 93-1/2 R.H. | 1 | 60 | 73-14309 | Rib - Tail Sta. 190.5 L.H. | 1 |
| 20 | 97-14385 | Rib - Nose Sta. 85.5 L.H. | 1 | | 73-14309-1 | Rib - Tail Sta. 190.5 R.H. | 1 |
| | 97-14385-1 | Rib - Nose Sta. 85.5 R.H. | 1 | 61 | 97-14301 | Rib - Tail Sta. 136-1/4 L.H. | 1 |
| 21 | 97-14029-12 | Beam - Nose Sta. 75 To 93-1/2 L.H. | 1 | | 97-14301-1 | Rib - Tail Sta. 136-1/4 R.H. | 1 |
| | 97-14029-13 | Beam - Nose Sta. 75 To 93-1/2 R.H. | 1 | 62 | 99-14436 | Rib - Interm. Sta. 135-1/2 | 1 |
| 22 | 97-14375 | Rib - Nose Rib Sta. 75 L.H. | 1 | | 99-14436-1 | Rib - Interm. Sta. 135-1/2 | 1 |
| | 97-14375-1 | Rib - Nose Rib Sta. 75 R.H. | 1 | 63 | 97-14302 | Rib - Tail Sta. 145-1/2 L.H. | 1 |
| 23 | 91-33106 | Support - Landing Gear Pivot L.H. | 1 | | 97-14302-1 | Rib - Tail Sta. 145-1/2 R.H. | 1 |
| | 91-33106-1 | Support - Landing Gear Pivot R.H. | 1 | 64 | 97-14220 | Web - Front Sta. 100-1/2 To 135-1/2 L.H. | 1 |
| 24 | 97-14361 | Rib - Nose Sta. 61.5 L.H. | 1 | | 97-14220-1 | Web - Front Sta. 100-1/2 To 135-1/2 R.H. | 1 |
| | 97-14361-1 | Rib - Nose Sta. 61.5 R.H. | 1 | 65 | 99-14446 | Rib - Interm. Sta. 145-1/2 L.H. | 1 |
| 25 | 73-14364 | Rib - Nose Sta. 59-31/32 L.H. | 1 | | 99-14446-1 | Rib - Interm. Sta. 145-1/2 R.H. | 1 |
| | 73-14364-1 | Rib - Nose Sta. 59-31/32 R.H. | 1 | 66 | 73-14303 | Rib - Tail Sta. 155-1/2 L.H. | 1 |
| 26 | 73-14131-100 | Beam - Leading Edge Sta. 17-1/2 To 61-1/2 L.H. | 1 | | 73-14303-1 | Rib - Tail Sta. 155-1/2 R.H. | 1 |
| | 73-14131-101 | Beam - Leading Edge Sta. 17-1/2 To 61-1/2 R.H. | 1 | 67 | 99-14456 | Rib - Interm. Sta. 155-1/2 L.H. | 1 |
| 27 | 73-14104-2 | Rib - Nose Sta. 50 L.H. | 1 | | 99-14456-1 | Rib - Interm. Sta. 155-1/2 R.H. | 1 |
| | 73-14104-3 | Rib - Nose Sta. 50 R.H. | 1 | 68 | 73-14304 | Rib - Tail Sta. 162-1/4 L.H. | 1 |
| 28 | 97-14350-200 | Rib - Nose Sta. 50 L.H. | 1 | | 73-14304-1 | Rib - Tail Sta. 162-1/4 R.H. | 1 |
| | 97-14350-201 | Rib - Nose Sta. 50 R.H. | 1 | 69 | 99-14467 | Rib - Interm. Sta. 166-1/2 L.H. | 1 |
| 29 | 73-14103-2 | Rib - Nose Sta. 38-1/2 L.H. | 1 | | 99-14467-1 | Rib - Interm. Sta. 166-1/2 R.H. | 1 |
| | 73-14103-3 | Rib - Nose Sta. 38-1/2 R.H. | 1 | 70 | 73-14306 | Rib - Tail Sta. 178-1/2 L.H. | 1 |
| 30 | 97-14338-200 | Rib - Nose Sta. 38-1/2 L.H. | 1 | | 73-14306-1 | Rib - Tail Sta. 178-1/2 R.H. | 1 |
| | 97-14338-201 | Rib - Nose Sta. 38-1/2 R.H. | 1 | 71 | 99-14479 | Rib - Interm. Sta. 178-1/2 L.H. | 1 |
| 31 | 73-14102-2 | Rib - Nose Sta. 27 L.H. | 1 | | 99-14479-1 | Rib - Interm. Sta. 178-1/2 R.H. | 1 |
| | 73-14102-3 | Rib - Nose Sta. 27 R.H. | 1 | 72 | 73-14305 | Rib - Tail Sta. 167-1/2 L.H. | 1 |
| 32 | 97-14327-200 | Rib - Nose Sta. 27 L.H. | 1 | | 73-14305-1 | Rib - Tail Sta. 167-1/2 R.H. | 1 |
| | 97-14327-201 | Rib - Nose Sta. 27 R.H. | 1 | 73 | AC365-624 | Nut | 4 |
| 33 | 73-14252 | Rib - Nose Sta. 17-1/2 L.H. | 1 | 74 | 73-14013 | Spar - Rear Wing Tip Sta. 193-3/32 To 215 L.H. | 1 |
| | 73-14252-1 | Rib - Nose Sta. 17-1/2 R.H. | 1 | | 73-14013-1 | Spar - Rear Wing Tip Sta. 193-3/32 To 215 R.H. | 1 |
| 34 | 83-14162 | Former - Nose Sta. 17-1/2 L.H. | 1 | 75 | 73-14019 | Rib - Tail Sta. 198-1/4 L.H. | 1 |
| | 83-14162-1 | Former - Nose Sta. 17-1/2 R.H. | 1 | | 73-14019-1 | Rib - Tail Sta. 198-1/4 R.H. | 1 |
| 35 | 73-10023 | Bulkhead - Center | 2 | 76 | 73-14020 | Rib - Tail Sta. 206-1/16 L.H. | 1 |
| 36 | 73-14101 | Rib - Sta. 0 | 1 | | 73-14020-1 | Rib - Tail Sta. 206-1/16 R.H. | 1 |
| 37 | 73-14092 | Rib - Sta. 4-3/4 L.H. | 1 | 77 | 73-14343 | Reinforcement - Tail Sta. 215 L.H. | 1 |
| | 73-14092-1 | Rib - Sta. 4-3/4 R.H. | 1 | | 73-14343-1 | Reinforcement - Tail Sta. 215 R.H. | 1 |
| 38 | 99-14034-54 | Former - Upper Sta. L.H. | 1 | 78 | 83-14018-6 | Rib - Tail Sta. 215 L.H. | 1 |
| | 99-14034-55 | Former - Upper Sta. R.H. | 1 | | 83-14018-7 | Rib - Tail Sta. 215 R.H. | 1 |
| 39 | 99-14034-52 | Former - Upper Sta. 27 L.H. | 1 | | | | |
| | 99-14034-53 | Former - Upper Sta. 27 R.H. | 1 | | | | |
| 40 | 99-14060-26 | Former - Lower Sta. 15 L.H. | 1 | | | | |
| | 99-14060-27 | Former - Lower Sta. 15 R.H. | 1 | | | | |
| 41 | 99-14034-50 | Former - Upper Sta. 38-1/2 L.H. | 1 | | | | |
| | 99-14034-51 | Former - Upper Sta. 38-1/2 R.H. | 1 | | | | |



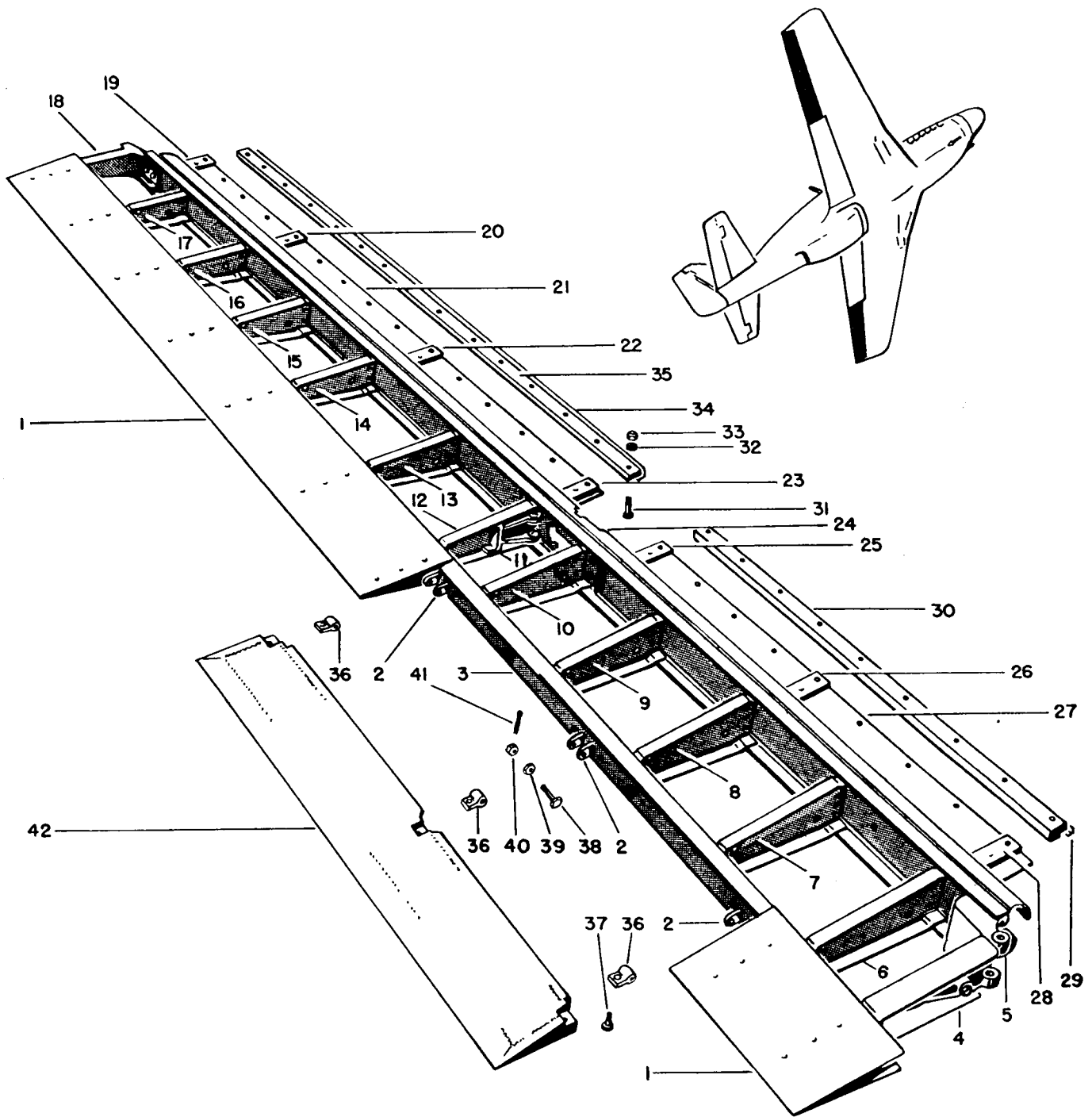
WING-STRUCTURE

| REF NO. | PART NUMBER | TITLE | FIGURE NO. 96 | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|---------------|---------|----------------|---------------------------------------|----------|
| 79 | 83-14021 | Support - Outboard Aileron Hinge L.H. Inner | 1 | 91 | B985AL24-32-64 | Washer | 4 |
| | 83-14021-1 | Support - Outboard Aileron Hinge R.H. Inner | 1 | 92 | 73-14195 | Bracket - Aileron Hinge Sta. 125.5 | 2 |
| 80 | 73-14022 | Support - Outboard Aileron Hinge L.H. Outer | 1 | 93 | AN5-12A | Bolt | 4 |
| | 73-14022-1 | Support - Outboard Aileron Hinge R.H. Outer | 1 | 94 | AN960-516 | Washer | 4 |
| 81 | B1244 | Eyebolt | 2 | 95 | AC365-524 | Nut | 4 |
| 82 | AN24-18 | Bolt | 2 | 96 | 73-14194 | Bracket - Aileron Hinge Sta. 75 | 2 |
| 83 | AN320-4 | Nut | 2 | 97 | AN5-13A | Bolt | 2 |
| 84 | AN380-2-2 | Pin | 2 | 98 | AN5-14A | Bolt | 2 |
| 85 | 73-14145 | Bracket - Aileron Hinge Sta. 166.5 | 1 | 99 | AC365-524 | Nut | 4 |
| | 73-14250 | Bracket - Aileron Hinge Sta. 166.5 | 1 | | 73-14240 | Spacer - Aileron Bracket Sta. 75 L.H. | 4 |
| 86 | 73-14236 | Spacer - Aileron Bracket Sta. 166.5 | 4 | 100 | 73-14193 | Bracket - Aileron Hinge Sta. 15 | 2 |
| 87 | AN4-11A | Bolt | 4 | 101 | 73-14237 | Spacer - Aileron Bracket Sta. 15 L.H. | 2 |
| 88 | 73-14144 | Bracket - Aileron Hinge Sta. 135.5 | 2 | | 73-14238 | Spacer - Aileron Bracket Sta. 15 R.H. | 2 |
| 89 | AN5-24A | Bolt | 4 | 102 | B1251-524-14 | Screw | 2 |
| 90 | AC365-524 | Nut | 4 | 103 | AN6-10A | Bolt | 2 |
| | | | | | AN6-11A | Bolt | 2 |

AILERON

FIGURE No. 97

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|---------------|--|----------|
| | 73-16000 | Aileron - Complete L.H. (Includes Trim Tab) | 1 | 15 | 73-16039 | Rib - Sta. 58-1/2 L.H. | 1 |
| | 73-16000-1 | Aileron-Complete R.H. (Includes Trim Tab) | 1 | 16 | 73-16039-1 | Rib - Sta. 58-1/2 R.H. | 1 |
| | 73-16001 | Frame - Aileron Complete L.H. (Less Trim Tab) | 1 | 17 | 73-16040 | Rib - Sta. 66-3/8 L.H. | 1 |
| | 73-16001-1 | Frame - Aileron Complete R.H. (Less Trim Tab) | 1 | 18 | 73-16040-1 | Rib - Sta. 66-3/8 R.H. | 1 |
| 1 | 73-16001-4 | Edge - Trailing L.H. | 1 | | 73-16041 | Rib - Sta. 74-1/4 L.H. | 1 |
| | 73-16001-5 | Edge - Trailing R.H. | 1 | | 73-16041-1 | Rib - Sta. 74-1/4 R.H. | 1 |
| 2 | 73-16024 | Fitting - Aileron Trim Tab Hinge | 6 | | 73-16017 | Fitting - Outboard Aileron Hinge L.H. | 1 |
| 3 | 73-16029 | Spar - Rear L.H. | 1 | | 73-16017-1 | Fitting - Outboard Aileron Hinge R.H. | 1 |
| | 73-16029-1 | Spar - Rear R.H. | 1 | 19 | 73-16045-4 | Support - Sta. 82 Diaphragm | 2 |
| 4 | 73-16030 | Rib - Inboard L.H. | 1 | 20 | 73-16045-3 | Support - Sta. 66-3/8 Diaphragm | 2 |
| | 73-16030-1 | Rib - Inboard R.H. | 1 | 21 | 73-16043 | Diaphragm - Aileron Outboard L.H. | 1 |
| 5 | 73-16015 | Fitting - Inboard Aileron Hinge L.H. | 1 | | 73-16043-1 | Diaphragm - Aileron Outboard R.H. | 1 |
| | 73-16015-1 | Fitting - Inboard Aileron Hinge R.H. | 1 | 22 | 73-16045-2 | Support - Sta. 50-7/8 Diaphragm | 2 |
| | AN4-6A | Bolt | 4 | 23 | 73-16044-5 | Support - Sta. 36 Diaphragm | 2 |
| | AN4-7A | Bolt | 4 | 24 | 73-16028 | Spar - Front L.H. | 1 |
| | AN4-12A | Bolt | 4 | | 73-16028-1 | Spar - Front R.H. | 1 |
| | AN960-416 | Washer | 2 | 25 | 73-16044-4 | Support - Sta. 29 Diaphragm | 2 |
| | AN960-416L | Washer | 8 | 26 | 73-16044-3 | Support - Sta. 17-5/16 Diaphragm | 2 |
| | AC366F-428 | Nut | 6 | 27 | 73-16042 | Diaphragm - Aileron Inboard L.H. | 1 |
| | 22A5-048 | Nut (Elastic) | 4 | | 73-16042-1 | Diaphragm - Aileron Inboard R.H. | 1 |
| 6 | 73-16031 | Rib - Sta. 4-13/16 L.H. | 1 | 28 | 73-16044-2 | Support - Sta. 4-13/16 Diaphragm | 2 |
| | 73-16031-1 | Rib - Sta. 4-13/16 R.H. | 1 | 29 | 73-16048 | Strip - Diaphragm Weight | 2 |
| 7 | 73-16032 | Rib - Sta. 11-1/16 L.H. | 1 | 30 | 73-16046 | Weight - Inboard Counter-Balance | 2 |
| | 73-16032-1 | Rib - Sta. 11-1/16 R.H. | 1 | 31 | B1251-832-12 | Screw | 34 |
| 8 | 73-16033 | Rib - Sta. 17-5/16 L.H. | 1 | | B1251-832-14 | Screw | 8 |
| | 73-16033-1 | Rib - Sta. 17-5/16 R.H. | 1 | 32 | B1251-832-16 | Screw | 6 |
| 9 | 73-16034 | Rib - Sta. 24-1/8 L.H. | 1 | | AN960-D8 | Washer | 120 |
| | 73-16034-1 | Rib - Sta. 24-1/8 R.H. | 1 | | AN960-10L | Washer | 20 |
| 10 | 73-16035 | Rib - Sta. 30-5/8 L.H. | 1 | | AN960-10 | Washer | 40 |
| | 73-16035-1 | Rib - Sta. 30-5/8 R.H. | 1 | 33 | AN340-8 | Nut | 48 |
| 11 | 73-16016 | Fitting - Center Aileron Hinge L.H. | 1 | 34 | 73-16043-2 | Strip - Diaphragm Weight | 2 |
| | 73-16016-1 | Fitting - Center Aileron Hinge R.H. | 1 | 35 | 73-16047 | Weight - Outboard Counter-Balance | 2 |
| 12 | 73-16036 | Rib - Sta. 34-13/16 L.H. | 1 | 36 | 73-22007 | Fitting - Trim Tab Hinge | 6 |
| | 73-16036-1 | Rib - Sta. 34-13/16 R.H. | 1 | | 73-52535 | Bushing - Hinge Fitting | 6 |
| 13 | 73-16037 | Rib - Sta. 42-1/4 L.H. | 1 | 37 | B1251-1032-9 | Screw | 4 |
| | 73-16037-1 | Rib - Sta. 42-1/4 R.H. | 1 | | B1251-1032-11 | Screw | 2 |
| 14 | 73-16038 | Rib - Sta. 50-7/8 L.H. | 1 | 38 | AN23-17 | Bolt | 6 |
| | 73-16038-1 | Rib - Sta. 50-7/8 R.H. | 1 | 39 | 73-525125 | Washer - Hinge | 6 |
| | | | | 40 | AN320-3 | Nut | 6 |
| | | | | 41 | AN380-2-2 | Pin | 6 |
| | | | | 42 | 83-16005 | Tab - Aileron Trim L.H. | 1 |
| | | | | | 83-16005-1 | Tab - Aileron Trim R.H. | 1 |



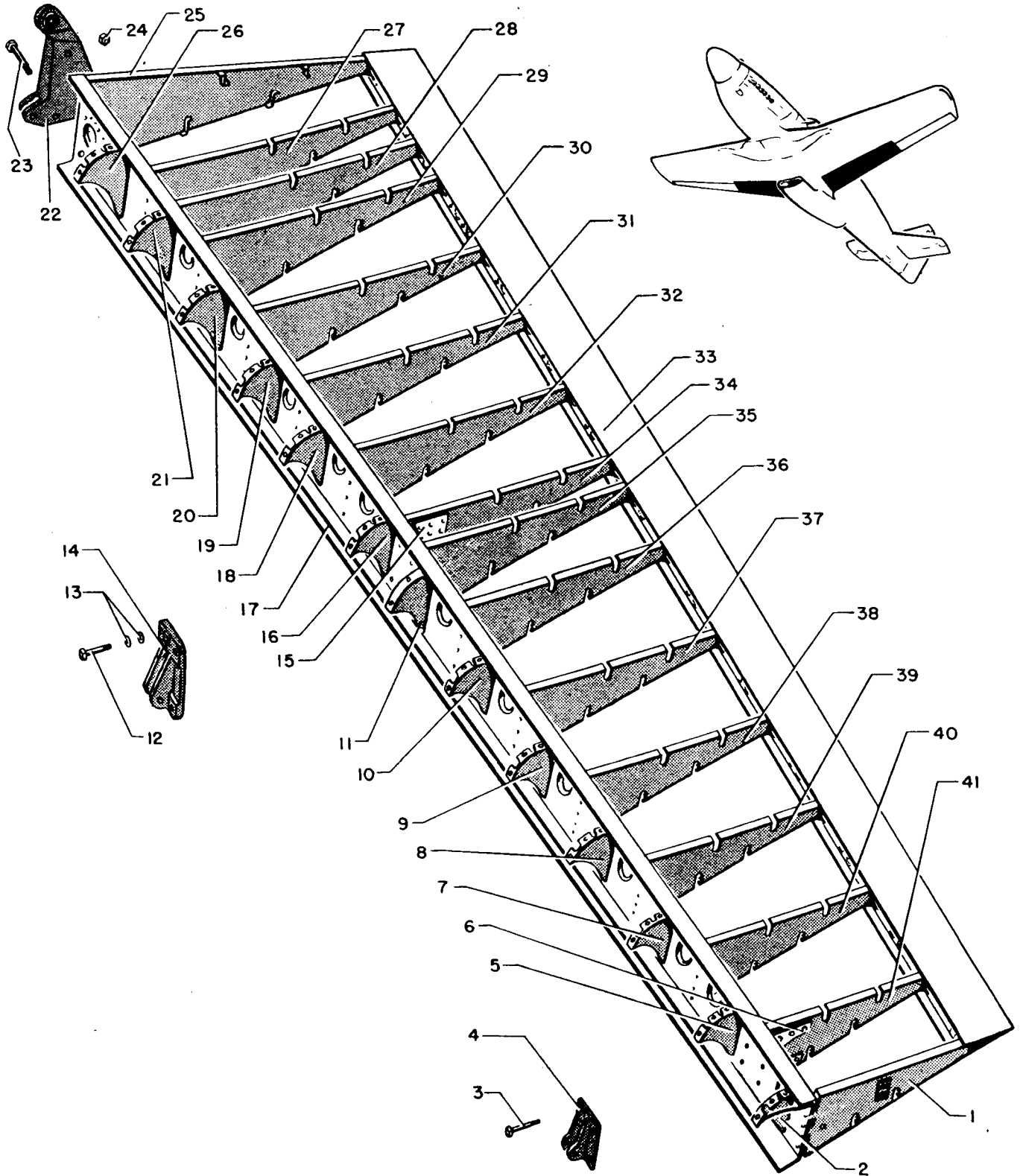
AILERON

FIGURE No. 97

WING FLAP

FIGURE No. 98

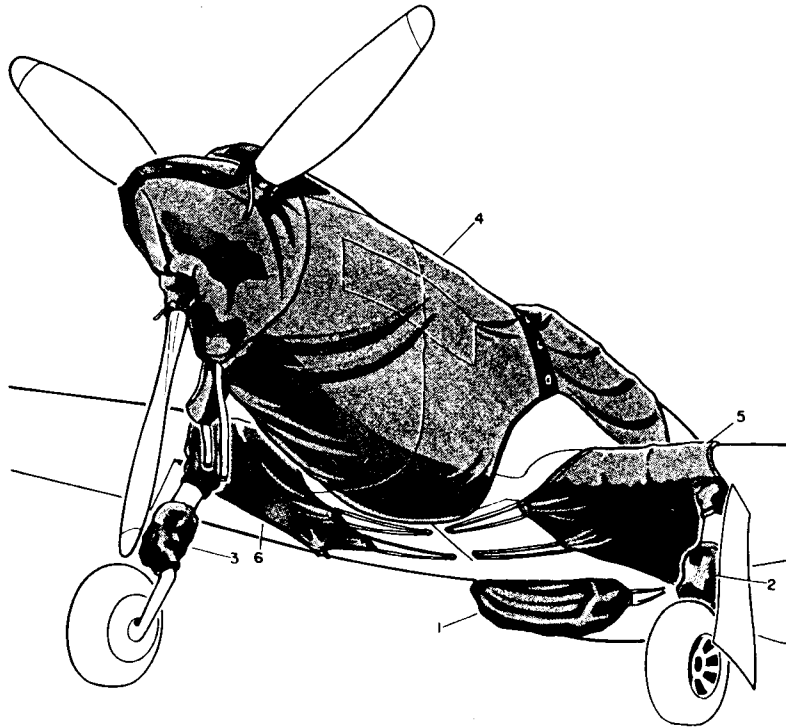
| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|-------------------------------------|----------|---------|-------------|------------------------------|----------|
| 1 | 73-18047 | Rib - Left Trailing | 1 | | 73-18016-1 | Fitting - Inboard Hinge R.H. | 1 |
| | 73-18047-1 | Rib - Right Trailing | 1 | 23 | AN6-13A | Bolt | 6 |
| 2 | 73-18043-26 | Rib - Left Nose | 1 | 24 | AC365-624 | Nut | 6 |
| | 73-18043-27 | Rib - Right Nose | 1 | 25 | 73-18044 | Rib - Left Inboard Hinge | 1 |
| 3 | AN3-6A | Bolt | 8 | | 73-18044-1 | Rib - Right Inboard Hinge | 1 |
| | AN3-5A | Bolt | 4 | 26 | 73-18043-2 | Rib - Left Nose | 1 |
| 4 | 73-18020 | Fitting - Outboard Flap Hinge | 2 | | 73-18043-3 | Rib - Right Nose | 1 |
| 5 | 73-18043-24 | Rib - Left Nose | 1 | 27 | 73-18042-2 | Rib - Left Trailing | 1 |
| | 73-18043-25 | Rib - Right Nose | 1 | | 73-18042-3 | Rib - Right Trailing | 1 |
| 6 | 73-18037 | Support - Outboard Hinge Fitting | 2 | 28 | 73-18042-23 | Rib - Left Trailing | 1 |
| 7 | 73-18043-22 | Rib - Left Nose | 1 | | 73-18042-22 | Rib - Right Trailing | 1 |
| | 73-18043-23 | Rib - Right Nose | 1 | 29 | 73-18042-4 | Rib - Left Trailing | 1 |
| 8 | 73-18043-20 | Rib - Left Nose | 1 | | 73-18042-5 | Rib - Right Trailing | 1 |
| | 73-18043-21 | Rib - Right Nose | 1 | 30 | 73-18042-6 | Rib - Left Trailing | 1 |
| 9 | 73-18043-18 | Rib - Left Nose | 1 | | 73-18042-7 | Rib - Right Trailing | 1 |
| | 73-18043-19 | Rib - Right Nose | 1 | 31 | 73-18042-8 | Rib - Left Trailing | 1 |
| 10 | 73-18043-16 | Rib - Left Nose | 1 | | 73-18042-9 | Rib - Right Trailing | 1 |
| | 73-18043-17 | Rib - Right Nose | 1 | 32 | 73-18042-10 | Rib - Left Trailing | 1 |
| 11 | 73-18043-14 | Rib - Left Nose | 1 | | 73-18042-11 | Rib - Right Trailing | 1 |
| | 73-18043-15 | Rib - Right Nose | 1 | 33 | 73-18040 | Spar - Left Rear | 1 |
| 12 | AN4-12A | Bolt | 8 | | 73-18040-1 | Spar - Right Rear | 1 |
| 13 | AN960-416 | Washer | 4 | | 73-18001-22 | Edge - Left Trailing | 1 |
| | AN960-416L | Washer | 8 | | 73-18001-21 | Edge - Right Trailing | 1 |
| 14 | 73-18019 | Fitting - Center Flap Hinge | 2 | 34 | 73-18048 | Rib - Left Center Hinge | 1 |
| 15 | 73-18038 | Support - Center Hinge Fitting L.H. | 2 | | 73-18048-1 | Rib - Right Center Hinge | 1 |
| | 73-18038-1 | Support - Center Hinge Fitting R.H. | 2 | 35 | 73-18045 | Rib - Left Center Hinge | 1 |
| 16 | 73-18043-12 | Rib - Left Nose | 1 | | 73-18045-1 | Rib - Right Center Hinge | 1 |
| | 73-18043-13 | Rib - Right Nose | 1 | 36 | 73-18042-12 | Rib - Left Trailing | 1 |
| 17 | 73-18039 | Spar - Left Front | 1 | | 73-18042-13 | Rib - Right Trailing | 1 |
| | 73-18039-1 | Spar - Right Front | 1 | 37 | 73-18042-14 | Rib - Left Trailing | 1 |
| 18 | 73-18043-10 | Rib - Left Nose | 1 | | 73-18042-15 | Rib - Right Trailing | 1 |
| | 73-18043-11 | Rib - Right Nose | 1 | 38 | 73-18042-16 | Rib - Left Trailing | 1 |
| 19 | 73-18043-8 | Rib - Left Nose | 1 | | 73-18042-17 | Rib - Right Trailing | 1 |
| | 73-18043-9 | Rib - Right Nose | 1 | 39 | 73-18042-18 | Rib - Left Trailing | 1 |
| 20 | 73-18043-6 | Rib - Left Nose | 1 | | 73-18042-19 | Rib - Right Trailing | 1 |
| | 73-18043-7 | Rib - Right Nose | 1 | 40 | 73-18042-20 | Rib - Left Trailing | 1 |
| 21 | 73-18043-4 | Rib - Left Nose | 1 | | 73-18042-21 | Rib - Right Trailing | 1 |
| | 73-18043-5 | Rib - Right Nose | 1 | 41 | 73-18046 | Rib - Left Outboard Hinge | 1 |
| 22 | 73-18016 | Fitting - Inboard Hinge L.H. | 1 | | 73-18046-1 | Rib - Right Outboard Hinge | 1 |



WING FLAP

FIGURE No. 98

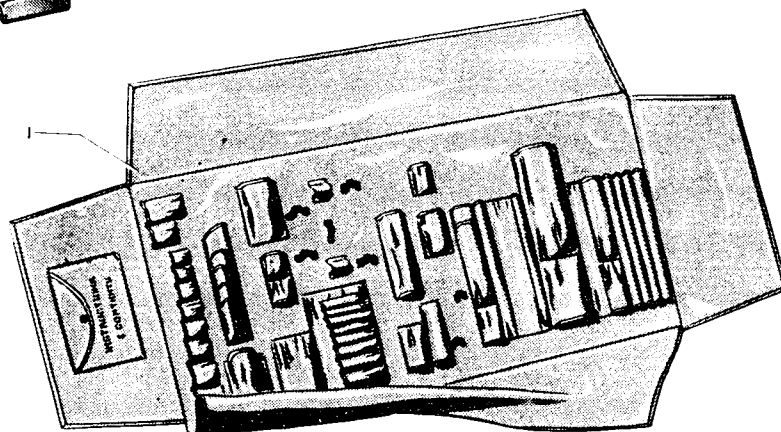
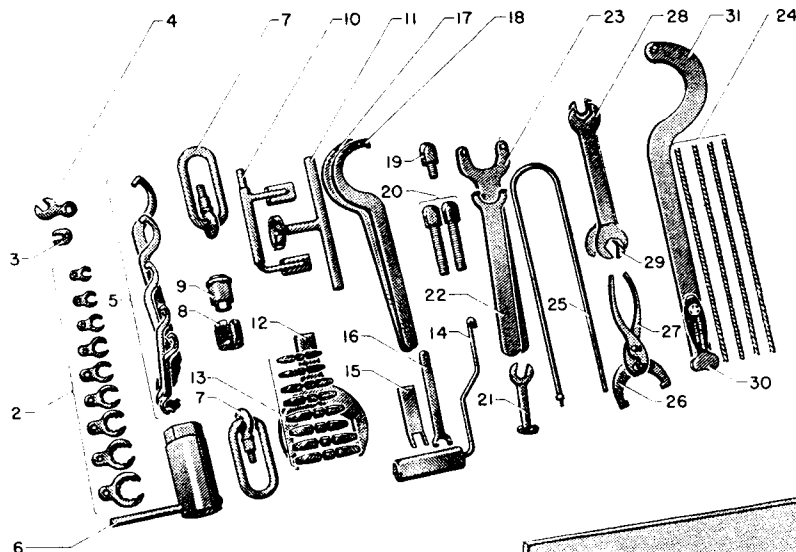
RESTRICTED



AIRPLANE COVERS

FIGURE No. 99

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|--|----------|---------|-------------|--|----------|
| 1 | 99-73009 | Cover - Fuselage Radiator Front Air Scoop Dust | 1 | 4 | 97-73004 | Cover - Engine And Cockpit | 1 |
| 2 | 73-73007 | Cover - Landing Gear Oleo Knuckle Dust L.H. | 1 | 5 | 73-73011 | Cover - Landing Gear Wing Wheel Well Dust L.H. | 1 |
| 3 | 73-73007-1 | Cover - Landing Gear Oleo Knuckle Dust R.H. | 1 | 6 | 73-73011-1 | Cover - Landing Gear Wing Wheel Well Dust R.H. | 1 |



SPECIAL TOOLS

FIGURE No. 100

| REF NO. | PART NUMBER | TITLE | NO. REQ. | REF NO. | PART NUMBER | TITLE | NO. REQ. |
|---------|-------------|---|----------|---------|-------------|---|----------|
| 1 | 97-73009 | Kit - Special Tool | 1 | 18 | 97-73080 | Wrench - Landing Gear Operating Cylinder Spanner | 1 |
| 2 | 97-73088 | Socket Set - Gas & Hydraulic Lines | 1 | 19 | 97-55007 | Screw - Tail Jacking | 1 |
| 3 | 97-73098 | Wrench - Cuno Filter | 1 | 20 | 97-55008 | Screw - Wing Jacking | 2 |
| 4 | 82-73014 | Wrench - Starter & Generator | 1 | 21 | 97-73085 | Wrench - Engine Spark Plug Elbow | 1 |
| 5 | 97-73078 | Wrench Set - Conduit | 1 | 22 | 97-73077 | Wrench - Master Brake Cylinder Spar | 1 |
| 6 | 97-73089 | Wrench - Landing Gear Hub Nut And Tail Wheel Knuckle Nut | 2 | 23 | 97-73081 | Wrench - Landing Gear Fairing Door Operating Strut Cap | 1 |
| 7 | 36-55009 | Fitting - Wing Hoist | 1 | 24 | | Cable - One Foot Lengths Supplied With 97-73095 (Ref See Fig. No. 13) | 1 |
| 8 | 97-73090 | Wrench - Turnbuckle | 1 | 25 | 97-73094 | Hose - Brake Bleeder | 1 |
| 9 | 25-58178 | Wrench - Hand Pump Piston Nut | 1 | 26 | 97-73083 | Wrench - Tail Wheel Oleo Packing Adjusting Screw | 1 |
| 10 | 97-73096 | Holder - Turnbuckle | 1 | 27 | 97-73093 | Pliers - Electrical Plug | 1 |
| 11 | 97-73091 | Wrench - Gas Tank | 1 | 28 | 97-73006 | Wrench - Gun Mount | 1 |
| 12 | 97-73084 | Wrench - Landing Gear Trunnion Nut | 1 | 29 | 97-73005 | Wrench - Gun Mount | 1 |
| 13 | 97-73095 | Coupling Set - Cable Sizes 1/16" 3/32", 1/8", & 5/32" | 1 | 30 | 97-73097 | Wrench - Dzus Fastener | 1 |
| 14 | 97-61234 | Hook - Gun Charging | 1 | 31 | 97-73082 | Wrench - Landing Gear Fairing Door Operating Strut End | 1 |
| 15 | 73-53095 | Tool - Cockpit Enclosure | 2 | | | | |
| 16 | 97-73076 | Wrench - Brake Valve Spanner | 1 | | | | |
| 17 | 97-73079 | Wrench - Flap, Airscoop, & Landing Gear Operating Cylinder Caps Spanner | 1 | | | | |

