

**BELLANCA**



**DECATHLON PARTS MANUAL**

**1**

**FOREWORD**

This manual has been prepared to provide interested parties with information leading to replacement part procurement.

The manual relates to all Model 8KCAB Decathlons and is designed to aid in the identification of parts for these aircraft.

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BELLANCA AIRCRAFT CORPORATION  
ISSUED SEPTEMBER 1, 1974  
REISSUED MAY 1, 1979  
THIS MANUAL APPLIES TO  
1972 THRU 1979 MODEL YEARS.

**2****INTRODUCTION**

The desired method for ordering parts to insure prompt and accurate filling of orders is as follows:

1. SPECIFY THE AIRPLANE MODEL and serial or registration number and date of manufacturing.
2. SPECIFY THE PART NUMBER, name, type (left or right) and quantity desired.
3. SPECIFY THE METHOD OF SHIPMENT - air parcel post, air freight, air express, parcel post, express, freight, united parcel service or will call. When no instructions are given or where the nature of the shipment requires it, we reserve the right to ship the most suitable way.
4. Parts should be ordered from your nearest dealer or dealers.

PARTS DEPARTMENT

BELLANCA AIRCRAFT CORPORATION

OSCEOLA, WISCONSIN 54020

Telephone No. 715-294-2141

**3****SHORTAGES IN PARTS ORDERS**

All shipments are checked before they leave the factory's shipping department to prevent errors and shortages. Shipments should be checked against the accompanying packing slip immediately upon receipt of the parts. All claims for shortages should be made within three (3) days after receipt of the order.

**RETURNED PARTS**

No parts should be returned without the factory's written permission. Parts returned without notice will be held at the owner's risk for thirty (30) days and will then be disposed of as seen fit. Transportation charges on returned items must be prepaid, or the shipment will be refused.

**TRANSPORTATION CHARGES**

Inspect all parts upon receipt. Damages to parts in transit must be filed as a claim against the carrier. Have the claim agent inspect the damage or have the carrier make a note of same.

**4****READING THE PARTS LIST**

The parts list consist of a systematic breakdown of the component parts for the entire airplane. Parts listed in the description column that are indented and do not have an index number are attaching parts for the part under which they are indented.

The quantity shown in the "Units per Assembly" column for a part or assembly is the total required per aircraft unless noted otherwise.

The parts number column contains Bellanca's part number, or in some cases, the manufacturer's number. Commercial attaching parts are indicated by Army-Navy (AN) part number.

Items marked "CF" (contact factory or dealer) are those items which may be of such variation or availability that the factory or dealer should be consulted.

**BELLANCA****DECATHLON PARTS MANUAL**

MODEL 8KCAB

## LOG OF REVISIONS

| REVISION | PAGES AFFECTED | DESCRIPTION | DATE |
|----------|----------------|-------------|------|
|          |                |             |      |





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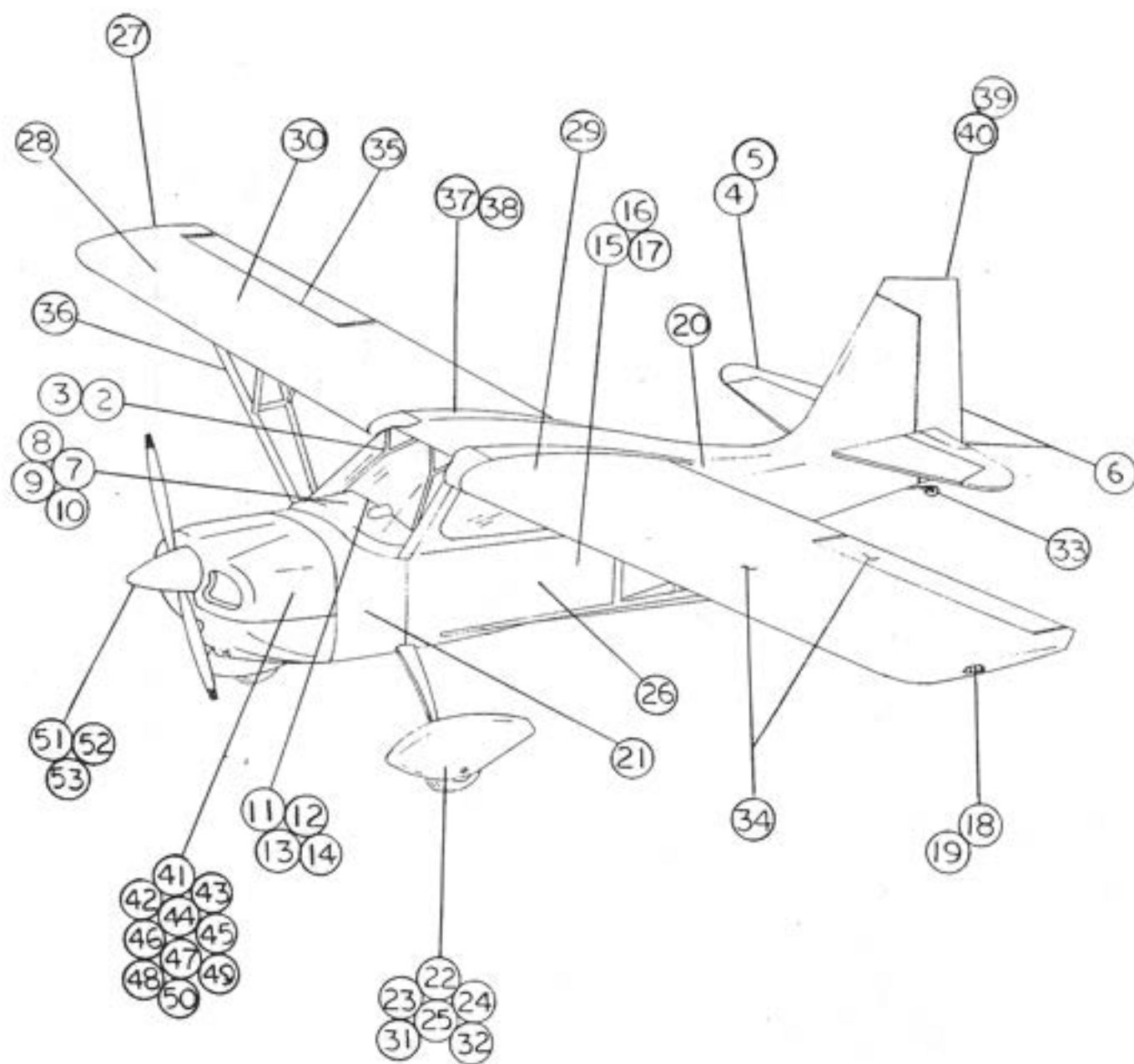
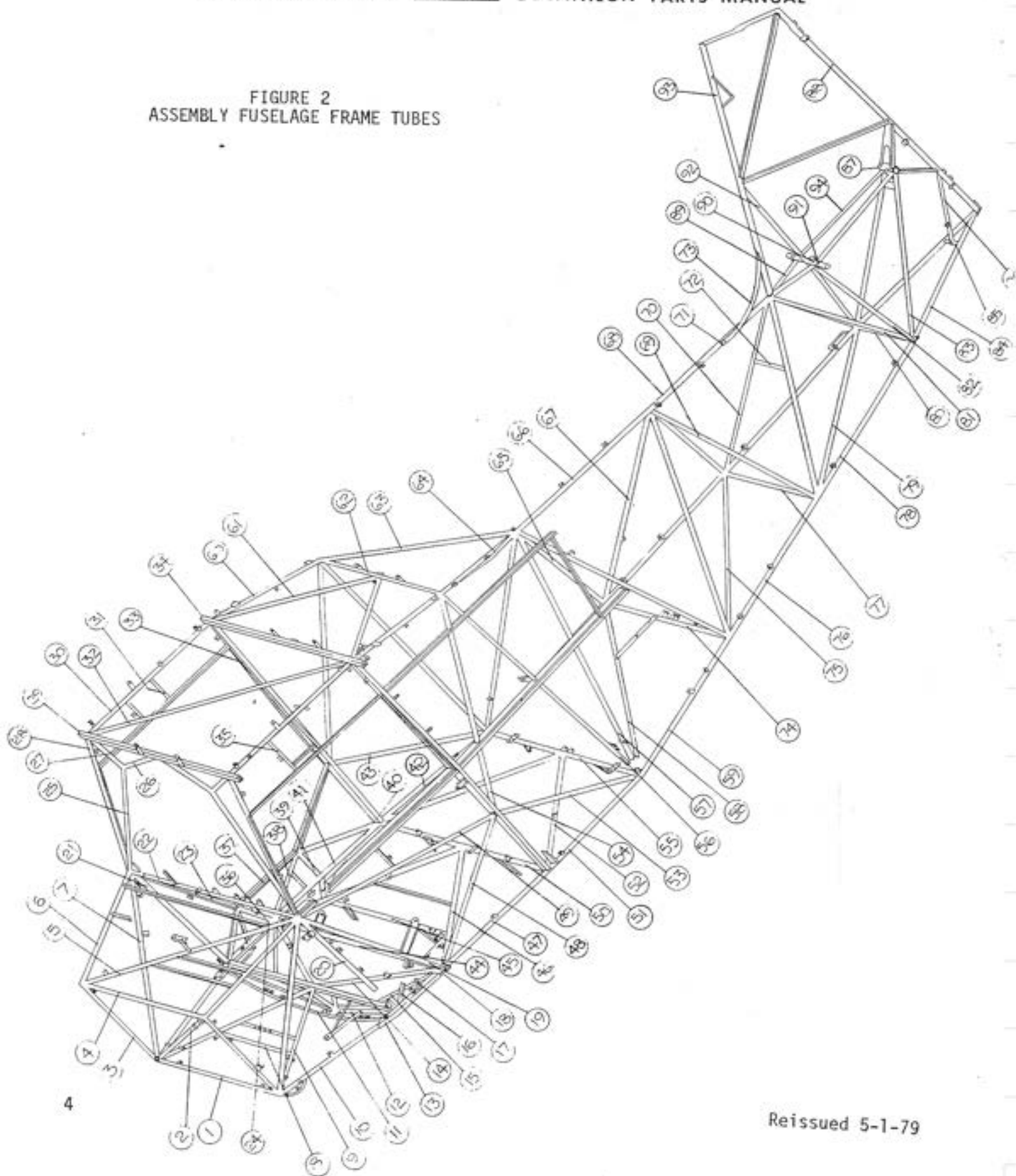


FIGURE 1. GENERAL VIEW INDEX ILLUSTRATIONS



FIGURE 2  
ASSEMBLY FUSELAGE FRAME TUBES





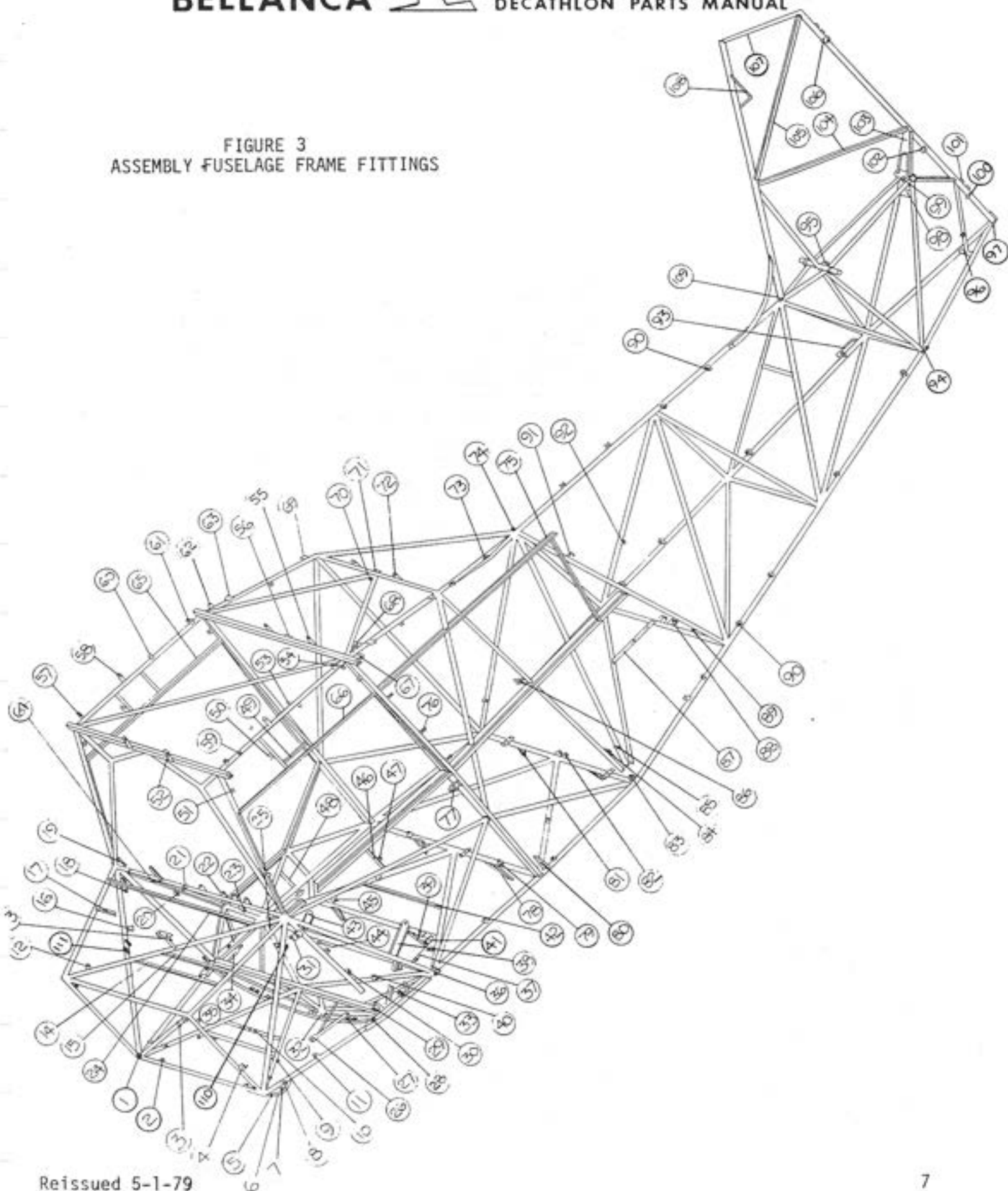
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER      | DESCRIPTION                                                         | UNITS<br>PER<br>ASS'Y |
|----------------------------------|------------------|---------------------------------------------------------------------|-----------------------|
| 2-                               | 7-1310<br>7-1410 | DRAWING - ASSEMBLY LOWER TRUSS<br>DRAWING - ASSEMBLY FUSELAGE FRAME |                       |
| 1                                | 7-1410-45        | TUBE                                                                | 1                     |
| 2                                | 7-1410-62        | TUBE                                                                | 1                     |
| 3                                | 7-1410-18        | TUBE                                                                | 1L/1R                 |
| 4                                | 7-1410-37        | TUBE                                                                | 1                     |
| 5                                | 7-1410-38        | TUBE                                                                | 1                     |
| 6                                | 7-1410-1         | TUBE                                                                | 1L/1R                 |
| 7                                | 7-1410-19        | TUBE                                                                | 2                     |
| 8                                | 7-1410-79        | TUBE                                                                | 1                     |
| 9                                | 7-1410-46        | TUBE                                                                | 2                     |
| 10                               | 7-1410-10        | TUBE                                                                | 2                     |
| 11                               | 4-1484           | FAIRING TUBE                                                        | 1                     |
| 12                               | 4-1453           | ASSEMBLY - LOWER CABANE TRUSS                                       | 1                     |
| 13                               | 2-1949           | TUBE                                                                | 1L/1R                 |
| 14                               | 7-1410-207       | TUBE                                                                | 1L/1R                 |
| 15                               | 7-1310-205       | TUBE                                                                | 1L/1R                 |
| 16                               | 7-1410-210       | TUBE                                                                | 1L/1R                 |
| 17                               | 7-1310-206       | TUBE                                                                | 1L/1R                 |
| 18                               | 7-1410-208L      | TUBE                                                                | 1L                    |
| 19                               | 7-1410-226       | TUBE                                                                | 1                     |
| 20                               | 7-1410-209       | TUBE                                                                | 1L                    |
| 21                               | 7-1410-211       | TUBE                                                                | 1R                    |
| 22                               | 7-1410-39        | TUBE                                                                | 1                     |
| 23                               | 7-1410-230       | TUBE                                                                | 1                     |
| 24                               | 7-1410-232       | TUBE                                                                | 1R                    |
| 25                               | 7-1410-42        | TUBE                                                                | 1L/1R                 |
| 26                               | 7-1410-40        | TUBE                                                                | 1L/1R                 |
| 27                               | 7-1410-41        | TUBE                                                                | 1L/1R                 |
| 28                               | 7-1410-2         | TUBE                                                                | 1L/1R                 |
| 29                               | 1-10094          | TUBE - FRONT WING ATTACHMENT                                        | 1                     |
| 30                               | 3-1435-3         | TUBE                                                                | 1L/1R                 |
| 31                               | 7-1410-238       | TUBE                                                                | 2                     |
| 32                               | 3-1435-1         | TUBE                                                                | 1                     |
| 33                               | 5-139            | CHANNEL                                                             | 1L/1R                 |
| 34                               | 3-1435-2         | TUBE ASSEMBLY - REAR WING ATTACHMENT                                | 1                     |
| 35                               | 7-1410-237       | TUBE                                                                | 2                     |
| 36                               | 7-1410-228       | TUBE                                                                | 1                     |
| 37                               | 7-1410-66        | TUBE                                                                | 1                     |
| 38                               | 7-1410-227       | TUBE                                                                | 1                     |
| 39                               | 7-1410-222       | TUBE                                                                | 1                     |
| 40                               | 7-1410-221       | TUBE                                                                | 1                     |
| 41                               | 7-1410-218       | TUBE                                                                | 1R                    |
| 42                               | 7-1410-229       | TUBE                                                                | 1                     |
| 43                               | 7-1410-231       | TUBE                                                                | 1                     |
| 44                               | 7-1410-219       | TUBE                                                                | 1                     |
| 45                               | 7-1410-51        | TUBE                                                                | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|-------------|-----------------------|
| 2-46                             | 7-1410-50   | TUBE        | 1L/1R                 |
| 47                               | 7-1410-12   | TUBE        | 1                     |
| 48                               | 7-1410-224  | TUBE        | 1                     |
| 49                               | 7-1410-225  | TUBE        | 1                     |
| 50                               | 7-1410-52   | TUBE        | 1                     |
| 51                               | 7-1410-13   | TUBE        | 1                     |
| 52                               | 7-1410-53   | TUBE        | 1L/1R                 |
| 53                               | 7-1410-26   | TUBE        | 1L/1R                 |
| 54                               | 7-1410-27   | TUBE        | 1L/1R                 |
| 55                               | 7-1410-54   | TUBE        | 1L/1R                 |
| 56                               | 7-1410-223  | TUBE        | 1                     |
| 57                               | 7-1410-29   | TUBE        | 1L/1R                 |
| 58                               | 7-1410-55   | TUBE        | 1L/1R                 |
| 59                               | 7-1410-14   | TUBE        | 1                     |
| 60                               | 7-1410-4    | TUBE        | 1L/1R                 |
| 61                               | 7-1410-43   | TUBE        | 1L/1R                 |
| 62                               | 7-1410-44   | TUBE        | 1L/1R                 |
| 63                               | 7-1410-5    | TUBE        | 1                     |
| 64                               | 7-1410-245  | TUBE        | 1L/1R                 |
| 65                               | 7-1410-30   | TUBE        | 1                     |
| 66                               | 7-1410-6    | TUBE        | 1L/1R                 |
| 67                               | 7-1410-31   | TUBE        | 1                     |
| 68                               | 7-1410-220  | TUBE        | 1L/1R                 |
| 69                               | 7-1410-32   | TUBE        | 1                     |
| 70                               | 7-1410-213  | TUBE        | 1L/1R                 |
| 71                               | 7-1410-204  | TUBE        | 1L/1R                 |
| 72                               | 7-1410-214  | TUBE        | 1                     |
| 73                               | 7-1410-202  | TUBE        | 1                     |
| 74                               | 7-1410-56   | TUBE        | 1                     |
| 75                               | 7-1410-57   | TUBE        | 1                     |
| 76                               | 7-1410-15   | TUBE        | 1                     |
| 77                               | 7-1410-58   | TUBE        | 1L/1R                 |
| 78                               | 7-1410-16   | TUBE        | 1L/1R                 |
| 79                               | 7-1410-59   | TUBE        | 1L/1R                 |
| 80                               | 7-1410-60   | TUBE        | 1                     |
| 81                               | 7-1410-215  | TUBE        | 1                     |
| 82                               | 7-1410-216  | TUBE        | 1L/1R                 |
| 83                               | 7-1410-217  | TUBE        | 1L/1R                 |
| 84                               | 7-1410-17   | TUBE        | 1L/1R                 |
| 85                               | 7-1410-61   | TUBE        | 1L/1R                 |
| 86                               | 7-1410-36   | TUBE        | 1                     |
| 87                               | 7-1410-76   | TUBE        | 1                     |
| 88                               | 7-1411-1    | TUBE        | 1                     |
| 89                               | 7-1410-212  | TUBE        | 1                     |
| 90                               | 7-1410-73   | TUBE        | 1L/1R                 |
| 91                               | 7-1410-78   | TUBE        | 1                     |
| 92                               | 7-1411-2    | TUBE        | 1L/1R                 |
| 93                               | 7-1411-3    | TUBE        | 1                     |
| 94                               | 7-1410-9    | TUBE        | 1                     |
|                                  |             |             | 1L/1R                 |



FIGURE 3  
ASSEMBLY FUSELAGE FRAME FITTINGS





| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                              | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------|------------------------------------------|-----------------------|
| 3-                               | 7-1410         | DRAWING - ASSEMBLY FUSELAGE FRAME        |                       |
| 1                                | 1-624          | FITTING - ENGINE MOUNT ATTACHMENT        | 4                     |
| 2                                | 1-2278         | LUG - SPRING ATTACHMENT                  | 2                     |
| 3                                | 1-2574         | CLAMP - CONTROL CASING                   | 1                     |
| 4                                | 1-10092        | BRACKET - FUEL SHUTOFF ATTCHMENT         | 1                     |
| 5                                | 1-2278         | LUG - RUDDER SPRING ATTACHMENT FITTING   | 2                     |
| 6                                | 3-1536-1       | SUPPORT - TUBE MASTER CYLINDER TOE BRAKE | 2                     |
| 7                                | 1-9064-2       | LUG - SUPPORT MASTER CYLINDER TOE BRAKE  | 4                     |
| 8                                | AS1-10058-0-20 | BUSHING - RUDDER PEDAL OUTBOARD          | 4                     |
|                                  | 1-2334         | BUSHING - RUDDER PEDAL INBOARD FORWARD   | 2                     |
| 9                                | AS16058-1-17   | BUSHING - HEEL BRAKE SUPPORT             | 2                     |
| 10                               | 1-9918-2       | ANGLE - FLOOR BOARD ATTACHMENT           | 1                     |
| 11                               | 1-2270-1       | CLIP - FLOOR BOARD ATTACHMENT            | 16                    |
| 12                               | 1-10206        | BRACKET - GOVERNOR CONTROL FORWARD       | 1                     |
| 13                               | 2-2023         | SUPPORT - WRAPAROUND                     | 1                     |
| 14                               | 1-10117-1      | TUBE - TANK SUPPORT                      | 1                     |
| 15                               | 1-10117-2      | TUBE - TANK SUPPORT                      | 1                     |
| 16                               | 1-10171        | ANGLE - ALT. STATIC AIR VALVE ATTACHMENT | 1                     |
| 17                               | 1-10316        | ANGLE - RADIO HOLD DOWN                  | 1                     |
| 18                               | 1-10206-1      | LUG - CONTROL ATTACHMENT (PARK BRAKE)    | 1                     |
| 19                               | 1-10317        | SUPPORT - RADIO HOLD DOWN                | 1L/1R                 |
| 20                               | 1-2786         | SUPPORT - DOOR RELEASE                   | 1                     |
| 21                               | AS1-12058-0-20 | BUSHING - PRIMER ATTACHMENT              | 1                     |
| 22                               | 1-2451         | LUG - PUSH & PULL CONTROL ATTACHMENT     | 3                     |
| 23                               | 1-10195        | LUG - GOVERNOR CONTROL ATTACHMENT        | 1                     |
| 24                               | 2-1551         | SUPPORT - INSTRUMENT PANEL               | 1                     |
| 25                               | 1-2463-1       | LUG - INSTRUMENT PANEL ATTACHMENT        | 1                     |
| 26                               | 2-2028         | BRKAE SUPPORT ASSEMBLY - HEEL            | 1                     |
| 27                               | 4-1484         | FAIRING TUBE - WRAPAROUND ATTACHMENT     | 1                     |
|                                  | 1-2629         | LUG - WRAPAROUND ATTACHMENT              | 2                     |
|                                  | 1-10346        | LUG - BELLY PAN ATTACHMENT               | 4                     |
|                                  | 1-2273         | CLIP - FAIRING ATTACHMENT                | 2                     |
| 28                               | 1-9837         | BUSHING - "U" BOLT ATTACHMENT            | 4                     |
| 29                               | 1-2629         | LUG - WRAPAROUND ATTACHMENT SIDE         | 4                     |
| 30                               | 1-2270         | CLIP - FUEL SHUTOFF BRACKET ATTACHMENT   | 1                     |
| 31                               | 1-2361         | BRACKET - HEAT CONTROL                   | 1                     |
|                                  | 1-10236        | LUG - THROTTLE CONTROL                   | 1                     |
| 32                               | 1-2265         | PLATE - FAIRING TUBE ATTACHMENT          | 1                     |
| 33                               | 1-2451         | LUG - RUDDER PEDAL ATTACHMENT            | 2                     |
| 34                               | 1-9998         | FAIRING - LANDING GEAR OPENING           | 1L/1R                 |
| 35                               | 1-2451-2       | LUG - BRAKE LINE ATTACHMENT              | 2                     |
| 36                               | 1-2263-1       | FITTING - STRUT ATTACHMENT               | 4                     |
|                                  | 1-2265         | SHEAR PLATE                              | 2                     |
| 37                               | 1-10543        | SUPPORT - RUDDER & BRAKE PEDAL REAR      | 1L/1R                 |
| 38                               | 2-1904         | BRACKET - TRIM TAB                       | 1                     |
| 39                               | 2-2077         | BRACKET - STRINGER ATTACHMENT            | 2                     |
|                                  | 1-3512         | BRACKET - BATTERY CABLE SUPPORT          | 2                     |
| 40                               | 1-2271         | LUG - FRONT SEAT ATTACHMENT              | 4                     |



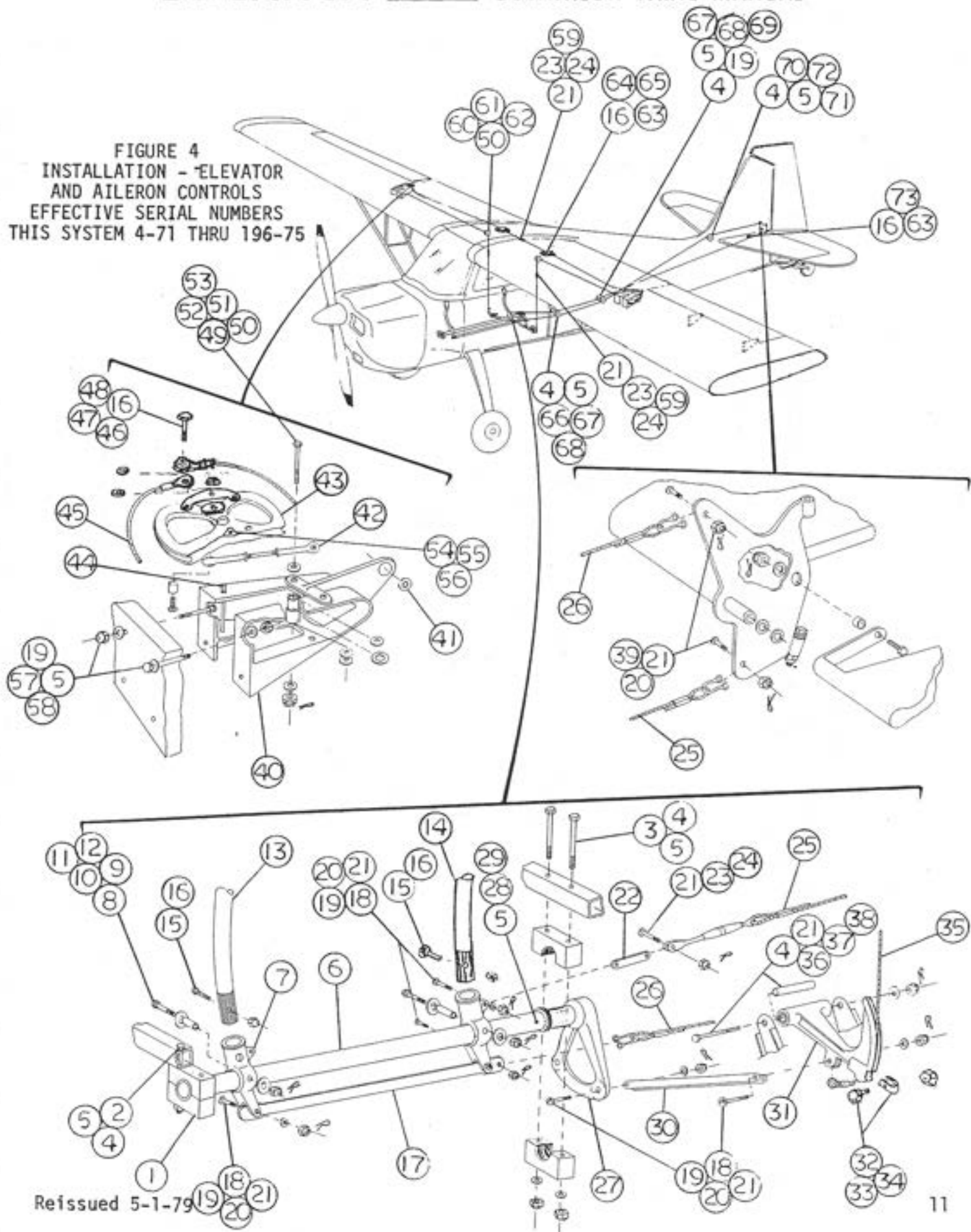
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER  | DESCRIPTION                            | UNITS<br>PER<br>ASS'Y |
|----------------------------------|--------------|----------------------------------------|-----------------------|
| 3-41                             | 1-2476-2     | LUG - PEDAL SUPPORT HEEL BRAKE         | 4                     |
| 42                               | 1-9918-1     | FLOOR BOARD ATTACHMENT                 | 1                     |
| 43                               | 2-714-3      | BRACKET - THROTTLE CONTROL FRONT       | 1                     |
| 44                               | 1-9914       | CLIP REAR SEAT HEATER HOSE ATTACHMENT  | 2                     |
| 45                               | 1-2683       | SUPPORT - TRIM TAB PLATE               | 2                     |
| 46                               | 1-2269       | ANGLE - WINDOW FRAME SUPPORT           | 1                     |
| 47                               | 1-9913       | ANGLE - SIDE PANEL ATTACHMENT          | 3                     |
| 48                               | 4-588        | STEP - ASSEMBLY CABIN                  | 1                     |
| 49                               | 1-10313      | ANGLE - HEADLINER FUEL GAUGE           | 1                     |
| 50                               | 1-9816       | CLIP - GAP COVER ATTACHMENT            | 2                     |
| 51                               | 1-2270       | LUG - GAP COVER ATTACHMENT             | 6                     |
| 52                               | 1-2817       | LUG - FAIRING ATTACHMENT               | 2                     |
| 53                               | 1-9988       | SUPPORT - ELECTRICAL PANEL FORWARD     | 1                     |
| 54                               | 7-1290-201   | SUPPORT - ELECTRICAL PANEL AFT         | 1                     |
| 55                               | 2-930-1      | LUG - FAIRING ATTACHMENT               | 2                     |
| 56                               | 1-10303      | LUG - SHOULDER HARNESS                 | 1                     |
| 57                               | 1-10110      | CLIP - FAIRING ATTACHMENT              | 2                     |
| 58                               | 1-2817       | LUG - FAIRING ATTACHMENT               | 2                     |
| 59                               | AN3-3A       | BOLT - GROUND ATTACHMENT               | 3                     |
| 60                               | 1-2683       | SUPPORT                                | 2                     |
| 61                               | 1-2270       | CLIP - FAIRING ATTACHMENT              | 2                     |
| 62                               | 2-930-1      | CLIP - FAIRING ATTACHMENT              | 2                     |
| 63                               | 1-2468       | SUPPORT - CABLE FAIR LEAD              | 2                     |
| 64                               | 1-2278       | LUG - DOOR HINGE                       | 4                     |
| 65                               | 1-9931       | DOOR - CHANNEL TOP                     | 1                     |
|                                  | 1-9933       | DOOR - CHANNEL AFT                     | 1                     |
|                                  | 1-9930       | DOOR - CHANNEL LOWER AFT               | 1                     |
|                                  | 1-9928       | DOOR - CHANNEL LOWER                   | 1                     |
|                                  | 1-9929       | DOOR - CHANNEL LOWER FORWARD           | 1                     |
|                                  | 2-1879       | DOOR - CHANNEL FORWARD                 | 1                     |
| 66                               | 2-1948       | WINDOW - CHANNEL UPPER                 | 1                     |
|                                  | 1-9859       | WINDOW - CHANNEL FORWARD               | 1                     |
|                                  | 1-9917       | PLATE - ELECTRICAL PANEL ATTACHMENT    | 2                     |
|                                  | 2-1955       | WINDOW - CHANNEL LOWER                 | 1                     |
|                                  | 1-9861       | WINDOW - CHANNEL AFT                   | 1                     |
|                                  | 1-10050      | CLIP - WINDOW HINGE FORWARD            | 1                     |
| 67                               | 1-2276-2     | LUG - AILERON PULLEY BRACKET           | 4                     |
| 68                               | 1-10343      | LUG - SHOULDER HARNESS ATTACHMENT      | 1                     |
| 69                               | 1-10111      | CLIP - GAP COVER ATTACHMENT            | 2                     |
| 70                               | AS15058-0-16 | BUSHING COAT HANGER ATTACHMENT         | 1                     |
| 71                               | 1-2270       | CLIP - FAIRING ATTACHMENT              | 1                     |
| 72                               | 2-930-1      | CLIP - FAIRING ATTACHMENT              | 2                     |
| 73                               | 1-10344      | LUG - SHOULDER HARNESS ATTACHMENT REAR | 1                     |
| 74                               | 1-2398-2     | CLIP - BULKHEAD WIDE                   | 3                     |
| 75                               | 2-1876       | CHANNEL - REAR WINDOW TOP              | 1L/1R                 |
|                                  | 1-9919       | CHANNEL - REAR WINDOW AFT              | 1L/1R                 |
|                                  | 2-1875       | CHANNEL - REAR WINDOW BOTTOM           | 1L/1R                 |
| 76                               | 1-2270       | LUG - SIDE RETAINER ATTACHMENT         | 6                     |
| 77                               | 2-714        | BRACKET - THROTTLE CONTROL AFT         | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                  | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------|----------------------------------------------|-----------------------|
| 3-78                             | 2-711         | BRACKET - STRINGER ATTACHMENT                | 2                     |
| 79                               | 1-2297        | LUG - REAR SEAT ATTACHMENT                   | 4                     |
| 80                               | 2-810         | BRACKET - AILERON BELL CRANK ATTACHMENT      | 1L/1R                 |
|                                  | 2-811         | BRACKET - AILERON BELL CRANK ATTACHMENT      | 1L/1R                 |
| 81                               | 1-2272        | SUPPORT - STRINGER ATTACHMENT                | 2                     |
| 82                               | 1-2476-3      | LUG - ELEVATOR PULLEY ATTACHMENT             | 2                     |
| 83                               | 1-10173       | RING - BAGGAGE NET TIE DOWN                  | 4                     |
| 84                               | 1-2588        | SUPPORT - STRINGER                           | 2                     |
| 85                               | 1-2539-1      | STUD - RUDDER PULLEY ATTACHMENT              | 2                     |
| 86                               | 1-8867        | PLATE - WINDOW FRAME SUPPORT                 | 2                     |
| 87                               | 2-2080        | BRACKET - BATTERY ATTACHMENT                 | 1                     |
| 88                               | 1-2476-3      | LUG - ELEVATOR PULLEY ATTACHMENT             | 4                     |
| 89                               | 1-2270        | LUG - FUEL DRAIN ATTACHMENT                  | 1                     |
| 90                               | 1-2273        | CLIP - BULKHEAD ATTACHMENT                   | 22                    |
| 91                               | 1-9816        | CLIP - FUEL MANIFOLD SUPPORT                 | 1                     |
| 92                               | 1-2451        | LUG - BATTERY CABLE GROUND ATTACHMENT        | 1                     |
| 93                               | 1-753         | HANDLE - FUSELAGE LIFT                       | 1                     |
| 94                               | 1-8318        | LUG - DRAG WIRE ATTACHMENT                   | 2                     |
| 95                               | 1-10075       | LUG - ELEVATOR PULLEY ATTACHMENT             | 2                     |
| 96                               | AS1-8058-1-16 | BUSHING - TAILWHEEL ATTACHMENT               | 1                     |
| 97                               | 1-2318        | SKID - TAILWHEEL ATTACHMENT                  | 1                     |
| 98                               | 1-9882        | BRACKET - FAIRLEAD CABLE                     | 1                     |
| 99                               | 1-2710        | STUD - TRIM TAB CABLE                        | 1                     |
| 100                              | 1-2363        | STOP - RUDDER                                | 2                     |
| 101                              | 1-10015       | BUSHING - RUDDER ATTACHMENT                  | 4                     |
| 102                              | 1-2538        | STOP - ELEVATOR                              | 1                     |
| 103                              | 2-2123        | BRACKET - STAB. ATTACHMENT                   | 2                     |
| 104                              | 2-1991-1      | RIB - FIN                                    | 1                     |
| 105                              | 2-1991-2      | RIB - FIN                                    | 1                     |
| 106                              | 1-2308-1      | FITTING - DRAG WIRE ATTACHMENT               | 2                     |
| 107                              | 2-707         | RIB - FIN                                    | 1                     |
| 108                              | 1-9912        | BRACKET - ANTENNA                            | 1                     |
| 109                              | AS3-18050     | BLANK - TUBE CLOSURE                         | 1                     |
| 110                              | 1-10576       | LUG - THROTTLE (PUSH-PULL CONTROL)           | 1                     |
|                                  | 1-2574        | CLAMP (PUSH-PULL CONTROL)                    | 1                     |
| 111                              | 1-10276       | LUG - CABIN HEAT AND FRESH AIR (1978 AND UP) | 4                     |



FIGURE 4  
INSTALLATION - ELEVATOR  
AND AILERON CONTROLS  
EFFECTIVE SERIAL NUMBERS  
THIS SYSTEM 4-71 THRU 196-75



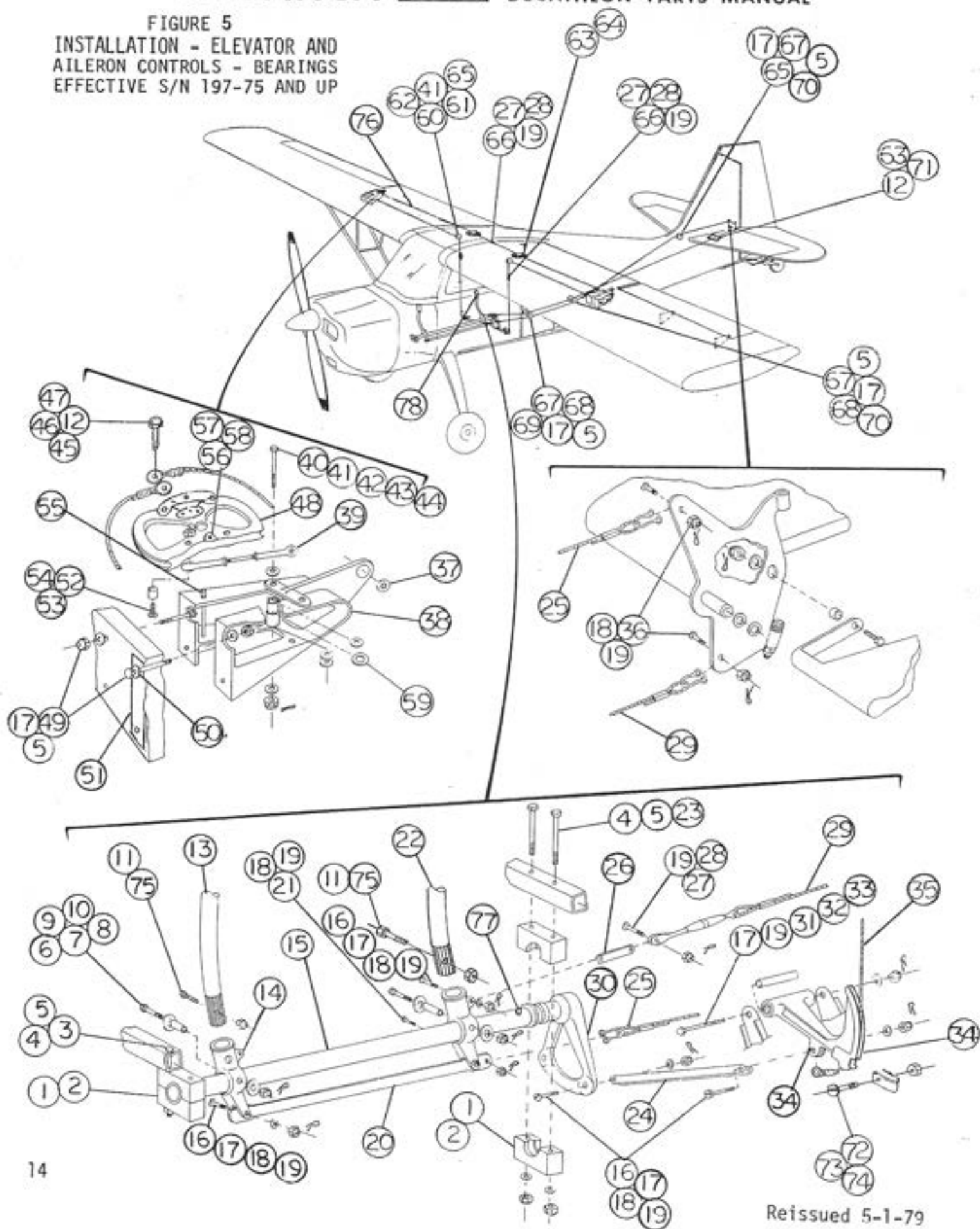


| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                  | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|----------------------------------------------|-----------------------|
| 4-                               | 7-441       | DRAWING - INSTALLATION FLIGHT CONTROL SYSTEM |                       |
| 1                                | 1-2599      | BEARING BLOCK - CONTROL TORQUE TUBE          | 2 pr.                 |
| 2                                | AN4-30A     | BOLT - BEARING ATTACHMENT FRONT              | 2                     |
| 3                                | AN4-27A     | BOLT - BEARING ATTACHMENT REAR               | 2                     |
| 4                                | AN960-416L  | WASHER                                       | 15                    |
| 5                                | AN365-428   | NUT                                          | 18                    |
| 6                                | 2-816       | TORQUE TUBE                                  | 1                     |
| 7                                | *2-705      | STICK SOCKET                                 | 2                     |
| 8                                | AN6-25      | BOLT                                         | 2                     |
| 9                                | AN945-6P    | WASHER                                       | 2                     |
| 10                               | AN310-6     | NUT                                          | 2                     |
| 11                               | AN380-3-3   | COTTER PIN                                   | 2                     |
| 12                               | 1-2550      | BUSHING                                      | 4                     |
| 13                               | 4-1630-1    | CONTROL STICK (FRONT ONLY)                   | 1                     |
|                                  | 1-2401-1    | GRIP                                         | 1                     |
| 14                               | 4-1630-2    | CONTROL STICK (REAR ONLY)                    | 1                     |
|                                  | 1-2401-1    | GRIP                                         | 1                     |
| 15                               | AN3-15A     | BOLT - STICK ATTACHMENT                      | 2                     |
| 16                               | AN365-1032  | NUT                                          | 10                    |
| 17                               | 1-2383      | TUBE - CONNECTING                            | 1                     |
| 18                               | AN24-16     | BOLT                                         | 8                     |
| 19                               | AN960-416   | WASHER                                       | 19                    |
| 20                               | AN320-4     | NUT                                          | 10                    |
| 21                               | AN380-2-2   | COTTER PIN                                   | 18                    |
| 22                               | 1-2356      | LINK - ELEVATOR DOWN                         | 1                     |
| 23                               | AN23-10     | BOLT                                         | 6                     |
| 24                               | AN320-3     | NUT                                          | 6                     |
| 25                               | 2-1534      | CABLE ASS'Y - ELEVATOR DOWN                  | 1                     |
| 26                               | 3-1072      | CABLE ASS'Y - ELEVATOR UP                    | 1                     |
| 27                               | *2-817      | CASTING - AILERON TORQUE TUBE                | 1                     |
| 28                               | AN386-3-10A | TAPER PIN                                    | 2                     |
| 29                               | AN975-4     | WASHER                                       | 2                     |
| 30                               | 1-2355      | STRAP                                        | 4                     |
| 31                               | *2-815      | SECTOR - AILERON CONTROL                     | 1L/1R                 |
| 32                               | 1-2573      | GUARD - AILERON CONTROL SECTOR CABLE         | 2                     |
| 33                               | AN515-8-14  | SCREW                                        | 2                     |
| 34                               | AN365-832   | NUT                                          | 2                     |
| 35                               | 1-2397      | CABLE ASS'Y - AILERON CONTROL                | 2                     |
| 36                               | AN4-22      | BOLT                                         | 2                     |
| 37                               | 1-2719      | BUSHING                                      | 2                     |
| 38                               | AN310-4     | NUT                                          | 2                     |
| 39                               | AN24-11     | BOLT                                         | 2                     |
| 40                               | *2-2061     | ASS'Y - AILERON HINGE BRACKET (WITH BEARING) | 2                     |
| 41                               | AN201-KP4A  | BEARING                                      | 2                     |
| 42                               | 1-10078     | PUSH ROD                                     | 2                     |
|                                  | AN23-22A    | BOLT                                         | 2                     |
|                                  | AN364-1032  | NUT                                          | 2                     |
|                                  | 1-10270     | BUSHING                                      | 2                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER                                                                                                                                                                                               | PART NUMBER          | DESCRIPTION                 | UNITS<br>PER<br>ASS'Y |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------|-----------------------|
| 4-                                                                                                                                                                                                                             | AN960-516 or<br>516L | WASHER                      | A/R                   |
| 43                                                                                                                                                                                                                             | *2-2060              | SECTOR - FIGURE 8 SUB-ASS'Y | 2                     |
| 44                                                                                                                                                                                                                             | AN380-6-10           | COTTER PIN                  | 2                     |
| 45                                                                                                                                                                                                                             | 1-10100              | CABLE ASS'Y - AILERON       | 4                     |
| 46                                                                                                                                                                                                                             | AN3-7A               | BOLT                        | 2                     |
| 47                                                                                                                                                                                                                             | AN960-10             | WASHER                      | 4                     |
| 48                                                                                                                                                                                                                             | AN960-10L            | WASHER                      | 2                     |
| 49                                                                                                                                                                                                                             | AN5-27               | BOLT                        | 2                     |
| 50                                                                                                                                                                                                                             | AN960-516            | WASHER                      | 4                     |
| 51                                                                                                                                                                                                                             | AN960-516L           | WASHER                      | 2                     |
| 52                                                                                                                                                                                                                             | AN310-5              | NUT                         | 2                     |
| 53                                                                                                                                                                                                                             | AN380-2-3            | COTTER PIN                  | 2                     |
| 54                                                                                                                                                                                                                             | 1-10276              | SHIM                        | 2                     |
| 55                                                                                                                                                                                                                             | AN936-A8             | WASHER - LOCK               | 2                     |
| 56                                                                                                                                                                                                                             | AN526-832            | SCREW                       | 2                     |
| 57                                                                                                                                                                                                                             | AN4-4A               | BOLT - BRACKET ATTACHMENT   | 18                    |
| 58                                                                                                                                                                                                                             | AN970-4              | WASHER                      | 8                     |
| 59                                                                                                                                                                                                                             | AN150-225            | TURNBUCKLE                  | 3                     |
| 60                                                                                                                                                                                                                             | MS20220-2            | PULLEY                      | 2                     |
| 61                                                                                                                                                                                                                             | AN3-12A              | BOLT                        | 2                     |
| 62                                                                                                                                                                                                                             | AN365-524            | NUT                         | 2                     |
| 63                                                                                                                                                                                                                             | 1-2396               | FAIRLEAD                    | 5                     |
| 64                                                                                                                                                                                                                             | AN520-10-14          | SCREW                       | 4                     |
| 65                                                                                                                                                                                                                             | AN380-4-4            | COTTER PIN                  | 2                     |
| 66                                                                                                                                                                                                                             | MS24566-3B           | PULLEY                      | 4                     |
| 67                                                                                                                                                                                                                             | 1-10227              | GUARD                       | 4                     |
| 68                                                                                                                                                                                                                             | AN4-15A              | BOLT                        | 1                     |
| 69                                                                                                                                                                                                                             | AN4-11A              | BOLT                        | 2                     |
| 70                                                                                                                                                                                                                             | AN4-10A              | BOLT                        | 1                     |
| 71                                                                                                                                                                                                                             | 1-2653-1             | BUSHING                     | 1                     |
| 72                                                                                                                                                                                                                             | A120                 | PULLEY                      | 1                     |
| 73                                                                                                                                                                                                                             | AN3-4A               | BOLT                        | 2                     |
| <p>*NOTE: THESE CASTINGS REQUIRE 100° RADIOGRAPH AND PENETRANT INSPECTION. IDENTIFICATION IS BY COLOR CODE BLUE, "X" AND "P" OR "Z" INSPECTION STAMPS. THIS MUST BE SPECIFIED WHEN ORDERING PARTS FOR THIS MODEL AIRCRAFT.</p> |                      |                             |                       |

FIGURE 5  
INSTALLATION - ELEVATOR AND  
AILERON CONTROLS - BEARINGS  
EFFECTIVE S/N 197-75 AND UP





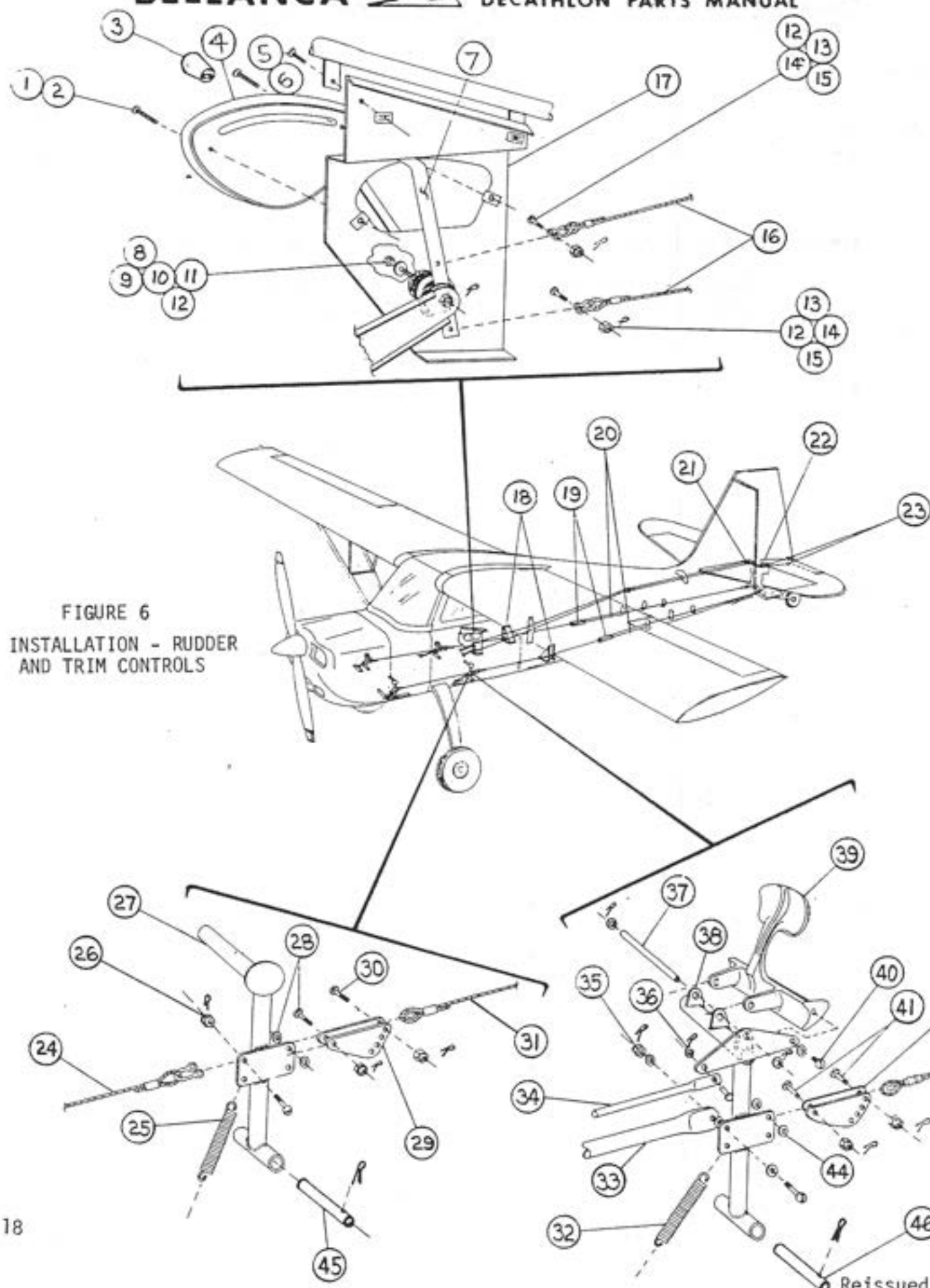
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                                   | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|---------------------------------------------------------------|-----------------------|
| 5-                               | 7-1486      | DRAWING - INSTALLATION FLIGHT CONTROL SYSTEM - BEARINGS       |                       |
| 1                                | 1-10370     | BEARING BLOCK - CONTROL TORQUE TUBE                           | 2 pr.                 |
| 2                                | B188PS      | BEARING - CONTROL TORQUE TUBE                                 | 2                     |
| 3                                | AN4-30A     | BOLT                                                          | 2                     |
| 4                                | AN960-416L  | WASHER                                                        | 4                     |
| 5                                | AN365-428   | NUT                                                           | 7                     |
| 6                                | AN6-25      | BOLT                                                          | 2                     |
| 7                                | AN945-6P    | WASHER                                                        | 2                     |
| 8                                | 1-2550      | BUSHING                                                       | 4                     |
| 9                                | AN310-6     | NUT                                                           | 2                     |
| 10                               | AN380-3-3   | COTTER PIN                                                    | 2                     |
| 11                               | AN3-15A     | BOLT                                                          | 2                     |
| 12                               | AN365-1032  | NUT                                                           | 8                     |
| 13                               | 4-1630-1    | CONTROL STICK (FRONT ONLY) (REQ'D WITH FIXED SEAT)            | 1                     |
|                                  | 4-1731      | CONTROL STICK (FRONT ONLY) (REQ'D WITH ADJUSTABLE SEAT)       | 1                     |
| 14                               | *2-705      | SOCKET CONTROL STICK (SEE NOTE)                               | 2                     |
| 15                               | 2-2108      | TORQUE TUBE                                                   | 1                     |
| 16                               | AN24-16     | BOLT                                                          | 3                     |
| 17                               | AN960-416   | WASHER                                                        | 13                    |
| 18                               | AN320-4     | NUT                                                           | 6                     |
| 19                               | AN380-2-2   | COTTER PIN                                                    | 15                    |
| 20                               | 1-2383      | CONNECTING TUBE                                               | 1                     |
| 21                               | AN24-12     | BOLT                                                          | 1                     |
| 22                               | 4-1630-2    | CONTROL STICK (REAR ONLY) (REQ'D WITH FIXED SEAT)             | 1                     |
|                                  | 4-1711      | CONTROL STICK (REAR ONLY) (REQ'D WITH ADJUSTABLE SEAT)        | 1                     |
| 23                               | AN4-27A     | BOLT                                                          | 2                     |
| 24                               | 1-2355      | STRAP                                                         | 4                     |
| 25                               | 3-1072      | CABLE ASSEMBLY ELEVATOR - UP (SPECIFY GALV. OR STAINLESS)     | 1                     |
| 26                               | 1-2356      | LINK - ELEVATOR DOWN                                          | 1                     |
| 27                               | AN23-10     | BOLT                                                          | 7                     |
| 28                               | AN320-3     | NUT                                                           | 7                     |
| 29                               | 2-1534      | CABLE ASSEMBLY ELEVATOR - DOWN (SPECIFY GALV. OR STAINLESS)   | 1                     |
| 30                               | *2-2105     | ASSEMBLY AILERON TORQUE ARM (SEE NOTE)                        | 1                     |
|                                  | B188PS      | BEARING                                                       | 1                     |
| 31                               | AN4-22      | BOLT                                                          | 2                     |
| 32                               | 1-2719      | BUSHING                                                       | 2                     |
| 33                               | AN310-4     | NUT                                                           | 2                     |
| 34                               | *2-2106     | SECTOR - AILERON CONTROL (SEE NOTE)                           | 1L/1R                 |
|                                  | B65PS       | BEARING                                                       | 4                     |
| 35                               | 1-2397      | CABLE ASSEMBLY - AILERON CONTROL (SPECIFY GALV. OR STAINLESS) | 2                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                                                | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|----------------------------------------------------------------------------|-----------------------|
| 5-36                             | AN24-11     | BOLT                                                                       | 2                     |
| 37                               | AN201-K4A   | BEARING                                                                    | 2                     |
| 38                               | *2-2061     | HINGE - AILERON SECTOR BRACKET WITH AN201-K4A BEARING INSTALLED (SEE NOTE) | 1L/1R                 |
| 39                               | 1-10078     | PUSH ROD                                                                   | 2                     |
| 40                               | AN5-27      | BOLT                                                                       | 2                     |
| 41                               | AN960-516   | WASHER                                                                     | 6                     |
| 42                               | 1-10369     | BUSHING                                                                    | 2                     |
|                                  | AN310-5     | NUT                                                                        | 2                     |
| 44                               | AN380-2-3   | COTTER PIN                                                                 | 2                     |
| 45                               | AN3-10A     | BOLT                                                                       | 2                     |
| 46                               | AN960-10L   | WASHER                                                                     | 2                     |
| 47                               | AN960-10    | WASHER                                                                     | 4                     |
| 48                               | *2-2115     | SECTOR - FIGURE 8 SUB-ASSEMBLY (SEE NOTE)                                  | 2                     |
|                                  | B65PS       | BEARING                                                                    | 4                     |
| 49                               | AN4-14A     | BOLT                                                                       | 4                     |
| 50                               | AN970-4     | WASHER                                                                     | 2                     |
| 51                               | 1-10128     | SPACER                                                                     | 1                     |
| 52                               | AN23-22A    | BOLT                                                                       | 1                     |
| 53                               | AN364-1032  | NUT                                                                        | 1                     |
| 54                               | 1-10270     | BUSHING                                                                    | 1                     |
| 55                               | AN380-6-10  | COTTER PIN                                                                 | 1                     |
| 56                               | 1-10276     | SHIM                                                                       | 1                     |
| 57                               | AN936-A8    | WASHER - LOCK                                                              | 1                     |
| 58                               | AN526-832-8 | SCREW                                                                      | 1                     |
| 59                               | AN960-616L  | WASHER                                                                     | 2                     |
| 60                               | MS20220-2   | PULLEY                                                                     | 2                     |
| 61                               | AN5-12A     | BOLT                                                                       | 2                     |
| 62                               | AN365-524   | NUT                                                                        | 2                     |
| 63                               | 1-2396      | FAIRLEAD                                                                   | 5                     |
| 64                               | AN520-10-14 | SCREW                                                                      | 4                     |
| 65                               | AN380-4-4   | COTTER PIN                                                                 | 3                     |
| 66                               | AN150-22S   | TURN BUCKLE                                                                | 3                     |
| 67                               | MS24566-3B  | PULLEY                                                                     | 5                     |
| 68                               | 1-10227     | GUARD                                                                      | 4                     |
| 69                               | AN4-15A     | BOLT                                                                       | 1                     |
| 70                               | AN4-11A     | BOLT                                                                       | 3                     |
| 71                               | AN3-4A      | BOLT                                                                       | 2                     |
| 72                               | 1-2573      | GUARD                                                                      | 2                     |
| 73                               | AN515-8-12  | SCREW                                                                      | 2                     |
| 74                               | AN365-832   | NUT                                                                        | 2                     |
| 75                               | AN364-1032  | NUT                                                                        | 2                     |
| 76                               | 1-10100     | CABLE ASSEMBLY                                                             | 4                     |
| 77                               | AN975-4     | WASHER                                                                     | 2                     |
|                                  | AN365-428   | NUT                                                                        | 2                     |
|                                  | AN386-3-10A | PIN                                                                        | 2                     |
| 78                               | 1-2401-1    | GRIP - CONTROL STICK                                                       | 2                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                                                                                                                                                                                                            | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 5-                               |             | <p><u>*NOTE:</u> THESE CASTINGS REQUIRE 100° RADIOGRAPH AND PENETRANT INSPECTIONS. IDENTIFICATION IS BY COLOR CODE BLUE, "X" AND "P" OR "Z" INSPECTION STAMPS. THIS MUST BE SPECIFIED WHEN ORDERING PARTS FOR THIS MODEL AIRCRAFT.</p> |                       |





| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER      | DESCRIPTION                                                                                                 | UNITS<br>PER<br>ASS'Y |
|----------------------------------|------------------|-------------------------------------------------------------------------------------------------------------|-----------------------|
| 6-                               | 7-1294<br>7-1486 | DRAWING - INSTALLATION - TRIM TAB SIDE MOUNTED<br>DRAWING - INSTALLATION FLIGHT CONTROLS SYSTEM<br>(RUDDER) |                       |
| 1                                | AN515-B8-16      | SCREW                                                                                                       | 2                     |
| 2                                | C1287-832        | NUT                                                                                                         | 2                     |
| 3                                | 1-9186           | KNOB - TRIM TAB CONTROL                                                                                     | 1                     |
| 4                                | 3-1605           | QUADRANT - TRIM TAB                                                                                         | 1                     |
| 5                                | AN526-832-6      | SCREW                                                                                                       | 2                     |
| 6                                | C420-832-1       | TINNERMAN NUT                                                                                               | 2                     |
| 7                                | 2-720            | HANDLE - TRIM TAB CONTROL                                                                                   | 1                     |
| 8                                | AN4-10           | BOLT                                                                                                        | 1                     |
| 9                                | AN970-4          | WASHER                                                                                                      | 1                     |
| 10                               | AN931-4-16       | GROMMET                                                                                                     | 1                     |
| 11                               | 1-2381           | WASHER - ROUND                                                                                              | 2                     |
|                                  | 1-2380           | PLATE - SLOTTED                                                                                             | 1                     |
| 12                               | AN380-2-2        | COTTER KEY                                                                                                  | 3                     |
| 13                               | AN23-9           | BOLT                                                                                                        | 2                     |
| 14                               | AN115-16         | SHACKLE                                                                                                     | 2                     |
| 15                               | AN320-3          | NUT                                                                                                         | 2                     |
| 16                               | 2-1905           | CABLE ASSEMBLY - TRIM TAB CONTROL (SPECIFY<br>GALV. OR STAINLESS)                                           | 2                     |
|                                  | 2-753-2          | CHAFE BLOCK                                                                                                 | 1                     |
|                                  | WSI-B-4A         | BUSHING - CHANNEL (NOT SHOWN SPECIAL)                                                                       | 2                     |
|                                  | WSI-B-4D         | BUSHING - BULKHEAD INST'L TOOL REQ'D)                                                                       | 4                     |
| 17                               | 4-1408           | PLATE - TRIM TAB                                                                                            | 1                     |
| 18                               | 3-485            | COVER - AILERON SECTORS                                                                                     | 2                     |
|                                  | AS6-6-6SS        | SCREWS                                                                                                      | 10                    |
| 19                               | MS24566-3B       | PULLEY                                                                                                      | 2                     |
|                                  | 1-10227          | GUARD                                                                                                       | 2                     |
|                                  | AN365-428        | NUT                                                                                                         | 2                     |
| 20                               | 2-1878           | GUARD - ELEVATOR CABLES                                                                                     | 1L/1R                 |
| 21                               | AS1-5028-0-110   | BUSHING                                                                                                     | 1                     |
|                                  | 1-2636           | BUSHING                                                                                                     | 1                     |
|                                  | 1-10258          | PULLEY                                                                                                      | 2                     |
|                                  | AN960PD516L      | WASHER                                                                                                      | 3                     |
|                                  | AN364-428        | NUT                                                                                                         | 1                     |
|                                  | 1-2398-1         | GUARD                                                                                                       | 1                     |
| 22                               | 1-2395           | PULLEY                                                                                                      | 2                     |
|                                  | 1-2759           | BUSHING                                                                                                     | 1                     |
|                                  | AN960-PD516L     | WASHER                                                                                                      | 1                     |
|                                  | 1-2399           | GUARD                                                                                                       | 1                     |
|                                  | AN310-4          | NUT                                                                                                         | 1                     |
|                                  | AN380-2-2        | COTTER KEY                                                                                                  | 1                     |
| 23                               | AN23-8           | BOLT                                                                                                        | 1                     |
|                                  | AN320-3          | NUT                                                                                                         | 2                     |
|                                  | AN380-2-2        | COTTER KEY                                                                                                  | 2                     |
| 24                               | 1-2280           | CABLE - RUDDER PEDAL CONNECT (SPECIFY GALV.<br>OR STAINLESS)                                                | 2                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER  | DESCRIPTION                                       | UNITS<br>PER<br>ASS'Y |
|----------------------------------|--------------|---------------------------------------------------|-----------------------|
| 6-25                             | 1-2568       | SPRING - REAR RUDDER PEDAL                        | 2                     |
|                                  | 1-769        | SPRING - FRONT RUDDER PEDAL                       | 2                     |
| 26                               | AN23-9       | BOLT                                              | 2                     |
|                                  | AN320-3      | NUT                                               | 4                     |
|                                  | AN380-2-2    | COTTER KEY                                        | 4                     |
| 27                               | 3-448        | RUDDER PEDAL                                      | 4                     |
| 28                               | AN23-10      | BOLT                                              | 2                     |
|                                  | AN960-10     | WASHER                                            | 4                     |
|                                  | AN320-3      | NUT                                               | 2                     |
|                                  | AN380-2-2    | COTTER KEY                                        | 2                     |
| 29                               | 1-8744-1     | PLATE - CABLE ADJUSTMENT                          | 4                     |
| 30                               | AN23-10      | BOLT                                              | 2                     |
|                                  | AN320-3      | NUT                                               | 2                     |
|                                  | AN380-2-2    | COTTER KEY                                        | 2                     |
| 31                               | 1-2364       | CABLE - RUDDER PEDAL (SPECIFY GALV. OR STAINLESS) | 2                     |
| 32                               | 1-2568       | SPRING - REAR RUDDER PEDAL                        | 2                     |
|                                  | 1-769        | SPRING - FRONT RUDDER PEDAL                       | 2                     |
| 33                               | 2-1518       | LINK - CONNECTING                                 | 2                     |
| 34                               | 1-10300      | ROD - CONNECTING                                  | 2                     |
| 35                               | AN23-9       | BOLT                                              | 4                     |
|                                  | AN960-10L    | WASHER                                            | 12                    |
|                                  | AN320-3      | NUT                                               | 4                     |
|                                  | AN380-2-2    | COTTER KEY                                        | 4                     |
| 36                               | MS20392-2C7  | PIN                                               | 4                     |
|                                  | AN960-10L    | WASHER                                            | 4                     |
|                                  | AN380-2-2    | KEY                                               | 4                     |
| 37                               | 1-10299      | BUSHING                                           | 4                     |
|                                  | AN960-516L   | WASHER                                            | 12                    |
|                                  | AN380-2-2    | COTTER KEY                                        | 8                     |
| 38                               | 3-1534       | PEDAL ASSEMBLY - TOE BRAKE                        | 4                     |
| 39                               | 3-1537-1     | PEDAL - TOE BRAKE FRONT                           | 1L/1R                 |
|                                  | 3-1537-2     | PEDAL - TOE BRAKE REAR                            | 1L/1R                 |
| 40                               | AN526-1032-5 | SCREW                                             | 4                     |
|                                  | AN936-A10    | WASHER                                            | 4                     |
| 41                               | AN23-10      | BOLT                                              | 4                     |
|                                  | AN320-3      | NUT                                               | 4                     |
|                                  | AN380-2-2    | COTTER KEY                                        | 4                     |
| 42                               | 1-8744-1     | PLATE - PEDAL CONNECTING                          | 4                     |
| 43                               | 1-2364       | CABLE - RUDDER (SPECIFY GALV. OR STAINLESS)       | 2                     |
| 44                               | AN960-10L    | WASHER                                            | 4                     |
| 45                               | 1-2411       | BUSHING - PEDAL ATTACHMENT                        | 4                     |
|                                  | AN380-4-4    | PIN - ATTACHMENT                                  | 4                     |
| 46                               | 1-2411       | BUSHING - PEDAL ATTACHMENT                        | 4                     |
|                                  | AN380-4-4    | PIN - ATTACHMENT                                  | 4                     |

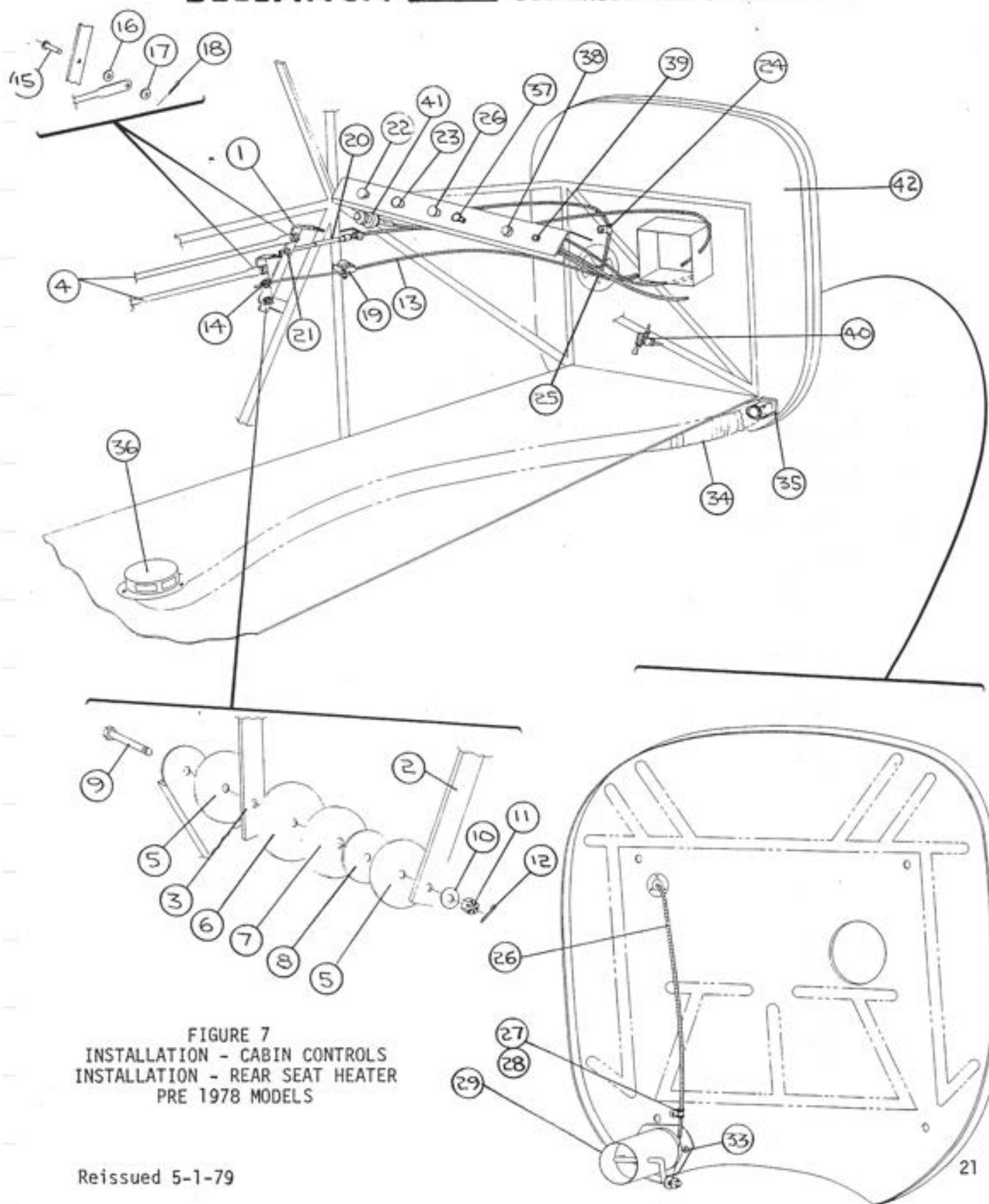


FIGURE 7  
INSTALLATION - CABIN CONTROLS  
INSTALLATION - REAR SEAT HEATER  
PRE 1978 MODELS



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER                                     | DESCRIPTION                                                                                                                                                                                                                    | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 7-                               | *3-1539<br>7-1415<br>7-1417<br>7-1422<br>7-1478 | DRAWING - INSTALLATION OIL LIGHT<br>DRAWING - INSTALLATION FIXED EQUIPMENT<br>DRAWING - INSTALLATION CONSTANT SPEED PROPELLER<br>DRAWING - INSTALLATION INSTRUMENT PANEL<br>DRAWING - INSTALLATION REAR SEAT HEATER (OPTIONAL) |                       |
| 1                                | 3-1401                                          | SUB-ASS'Y THROTTLE AND CARB. HEAT CONTROL<br>(COMPLETE)                                                                                                                                                                        | 1                     |
| 2                                | 1-9940                                          | CONTROL ARM - CARB. HEAT                                                                                                                                                                                                       |                       |
| 3                                | 2-715-2                                         | CONTROL ARM - THROTTLE                                                                                                                                                                                                         | 2                     |
| 4                                | 1-2373                                          | SHAFT ARM CONNECTING                                                                                                                                                                                                           | 2                     |
| 5                                | 1-2381                                          | WASHER (LEATHER)                                                                                                                                                                                                               | 3                     |
| 6                                | 1-2380                                          | PLATE - FRICTION TAB (FRONT ONLY)                                                                                                                                                                                              | 1                     |
| 7                                | AN931-4-16                                      | GROMMET (RUBBER)                                                                                                                                                                                                               | 2                     |
| 8                                | AN970-4                                         | WASHER                                                                                                                                                                                                                         | 2                     |
| 9                                | AN4-11                                          | BOLT (ATTACHMENT) FRONT                                                                                                                                                                                                        | 1                     |
|                                  | AN4-10                                          | BOLT (ATTACHMENT) REAR                                                                                                                                                                                                         | 1                     |
| 10                               | AN960-416                                       | WASHER                                                                                                                                                                                                                         | 2                     |
| 11                               | AN310-4                                         | NUT                                                                                                                                                                                                                            | 2                     |
| 12                               | AN380-2-2                                       | COTTER PIN                                                                                                                                                                                                                     | 2                     |
| 13                               | 3-1402-6                                        | CONTROL CABLE (CARB. HEAT CONTROL)                                                                                                                                                                                             | 1                     |
| 14                               | 1-9995                                          | BOLT (CABLE TO ARM ATTACHMENT)                                                                                                                                                                                                 | 1                     |
|                                  | AN960-416L                                      | WASHER                                                                                                                                                                                                                         | 2                     |
|                                  | AN310-4                                         | NUT                                                                                                                                                                                                                            | 1                     |
|                                  | AN380-2-3                                       | COTTER PIN                                                                                                                                                                                                                     | 1                     |
| 15                               | AN393-11                                        | PIN (SHAFT ATTACHMENT)                                                                                                                                                                                                         | 4                     |
| 16                               | AN960-10L                                       | WASHER                                                                                                                                                                                                                         | 4                     |
| 17                               | AN960-10                                        | WASHER                                                                                                                                                                                                                         | 4                     |
| 18                               | AN380-2-2                                       | COTTER PIN                                                                                                                                                                                                                     | 4                     |
| 19                               | AN3-3A                                          | BOLT (CABLE TO FRAME ATTACHMENT)                                                                                                                                                                                               | 1                     |
|                                  | 1-2361                                          | CLAMP                                                                                                                                                                                                                          | 1                     |
|                                  | 1-2577-1                                        | SHIM                                                                                                                                                                                                                           | 1                     |
|                                  | AN742-4                                         | CLAMP                                                                                                                                                                                                                          | 1                     |
|                                  | 1-2362                                          | PLATE                                                                                                                                                                                                                          | 1                     |
|                                  | AN960-10                                        | WASHER                                                                                                                                                                                                                         | 1                     |
|                                  | AN365-1032                                      | NUT                                                                                                                                                                                                                            | 1                     |
| 20                               | 2-2089                                          | CONTROL CABLE (THROTTLE)                                                                                                                                                                                                       | 1                     |
| 21                               | A31539                                          | END (CABLE TO ARM ATTACHMENT)                                                                                                                                                                                                  | 1                     |
|                                  | AN960-416                                       | WASHER                                                                                                                                                                                                                         | 1                     |
|                                  | AN380-2-2                                       | COTTER PIN                                                                                                                                                                                                                     | 1                     |
|                                  | AN315-3R                                        | NUT                                                                                                                                                                                                                            | 1                     |
|                                  | A31800                                          | CLEVIS END - 8KCAB S/N 301-77 AND UP                                                                                                                                                                                           | 1                     |
|                                  | AN4-4A                                          | BOLT - 8KCAB S/N 301-77 AND UP                                                                                                                                                                                                 | 1                     |
|                                  | AN365-428                                       | NUT - 8KCAB S/N 301-77 AND UP                                                                                                                                                                                                  | 1                     |
| 22                               | 1-9165-4                                        | MIXTURE CONTROL CABLE                                                                                                                                                                                                          | 1                     |
| 23                               | 1-9165-1                                        | FRONT CABIN HEAT CONTROL CABLE                                                                                                                                                                                                 | 1                     |
| 24                               | AN4-4A                                          | BOLT (CABLE TO FRAME ATTACHMENT)                                                                                                                                                                                               | 1                     |
|                                  | AN365-428                                       | NUT                                                                                                                                                                                                                            | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER      | DESCRIPTION                                          | UNITS<br>PER<br>ASS'Y |
|----------------------------------|------------------|------------------------------------------------------|-----------------------|
| 7-                               | 1-2574           | CLAMP                                                | 1                     |
|                                  | 1-2577           | SHIM                                                 | 1                     |
| 25                               | 3-1582           | FRONT SEAT HEATER BOX ASSEMBLY                       | 1                     |
|                                  | 4-972            | FRONT SEAT HEATER CONTROL VALVE                      | 1                     |
|                                  | 1-2584           | BOLT - VALVE ATTACHMENT                              | 1                     |
|                                  | AN960-10L        | WASHER - VALVE ATTACHMENT                            | 1                     |
|                                  | AN365-1032       | NUT - VALVE ATTACHMENT                               | 1                     |
|                                  | 2-2156           | HEAT DEFLECTOR                                       | 1                     |
|                                  | AN515-8-10       | SCREW - DEFLECTOR ATTACHMENT                         | 3                     |
|                                  | AN365-832        | NUT - DEFLECTOR ATTACHMENT                           | 3                     |
| 26                               | 1-10348-2        | CONTROL - REAR SEAT HEATER (OPTIONAL)                | 1                     |
| 27                               | MS21919-DF4      | CLAMP (OPTIONAL)                                     | 2                     |
| 28                               | AS6-8-6SS        | SCREW (OPTIONAL)                                     | 2                     |
| 29                               | 2-2122           | HEATER BOX ASSEMBLY (REAR)                           | 1                     |
| 31                               | AN960-10         | WASHER                                               | 1                     |
| 32                               | AN380-2-2        | COTTER KEY                                           | 1                     |
| 33                               | AN515-8-8        | SCREW (VALVE TO FIREWALL - ATTACHMENT)<br>(OPTIONAL) | 4                     |
|                                  | AN365-832        | NUT                                                  | 4                     |
| 34                               | 3-985-31         | FLEX HOSE (VALVE TO OUTLET)(OPTIONAL)                | 1                     |
| 35                               | 5912             | CLAMP (HOSE TO VALVE ATTACHMENT)                     | 1                     |
| 36                               | 1-9706-2         | OUTLET - SHROUD (OPTIONAL)                           | 1                     |
|                                  | AS6-8-10SS       | SCREW (ATTACHMENT)                                   | 3                     |
|                                  | 1-3670           | FLANGE (HOSE ATTACHMENT - FLOORBOARD)                | 1                     |
|                                  | AS6-8-10SS       | SCREW (FLANGE ATTACHMENT)                            | 3                     |
|                                  | 5912             | CLAMP (HOSE TO FLANGE ATTACHMENT)                    | 1                     |
| 37                               | 1-8981           | CIGAR LIGHTER (OPTIONAL)                             | 1                     |
| 38                               | 1-8980           | STARTER BUTTON                                       | 1                     |
| 39                               | *3-1539          | INSTALLATION OIL PRESSURE WARNING LIGHT              | 1                     |
|                                  | 801-1032-033-504 | WARNING LIGHT                                        | 1                     |
|                                  | 1-10305          | SUB-ASSEMBLY (MERCURY SWITCH)                        | 1                     |
|                                  | 1-10305-1        | ALUM. PLATE                                          | 1                     |
|                                  | 7MP1-2           | SWITCH (MERCURY)                                     | 1                     |
|                                  | 1MR6-B           | CLIP                                                 | 2                     |
|                                  | 1601-0410        | RIVET                                                | 2                     |
|                                  | 1-10307          | PLACARD - OIL PRESSURE WARNING LIGHT                 | 1                     |
|                                  | 1601-0410        | RIVET                                                | 2                     |
|                                  | M4011-60         | SWITCH (PRESSURE)                                    | 1                     |
|                                  | AN825-3D         | TEE                                                  | 1                     |
|                                  | AN818-3D         | NUT                                                  | 2                     |
|                                  | AN819-3D         | SLEEVE                                               | 2                     |
|                                  | 185              | WIRE (SEE SCHEMATIC)                                 | 1                     |
|                                  | 141              | WIRE                                                 | 1                     |
|                                  | 181              | WIRE                                                 | 1                     |
|                                  | 182              | WIRE                                                 | 1                     |
| 40                               | 310-3 1/4D       | VALVE (ALT STATIC AIR) SIDE MOUNTED                  | 1                     |
|                                  | 110-B 1/4 x 1/8  | REDUCER                                              | 2                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER                        | PART NUMBER | DESCRIPTION                  | UNITS<br>PER<br>ASS'Y |
|---------------------------------------------------------|-------------|------------------------------|-----------------------|
| 7-                                                      | 62001       | ADAPTER                      | 2                     |
|                                                         | AN3-3A      | BOLT                         | 2                     |
|                                                         | AN960-10    | WASHER                       | 2                     |
| 41                                                      | D44195-3    | GOVERNOR CONTROL CABLE       | 1                     |
|                                                         | HF-3        | ROD END (ENGINE ATTACHMENT)  | 1                     |
|                                                         | AN315-3R    | NUT                          | 1                     |
|                                                         | AN3-7A      | BOLT                         | 1                     |
|                                                         | AN960-10    | WASHER                       | 2                     |
|                                                         | AN365-1032  | NUT                          | 2                     |
|                                                         | 1-10126     | PLACARD - PROPELLER GOVERNOR | 1                     |
| 42                                                      | 4-1540      | ASSEMBLY FIREWALL            | 1                     |
|                                                         | 4-860       | FIREWALL BLANK               | 1                     |
|                                                         | 4-1555      | FIREWALL MAT                 | 1                     |
| *NOTE: NOT APPLICABLE AE10-320-E1B ENGINE INSTALLATION. |             |                              |                       |

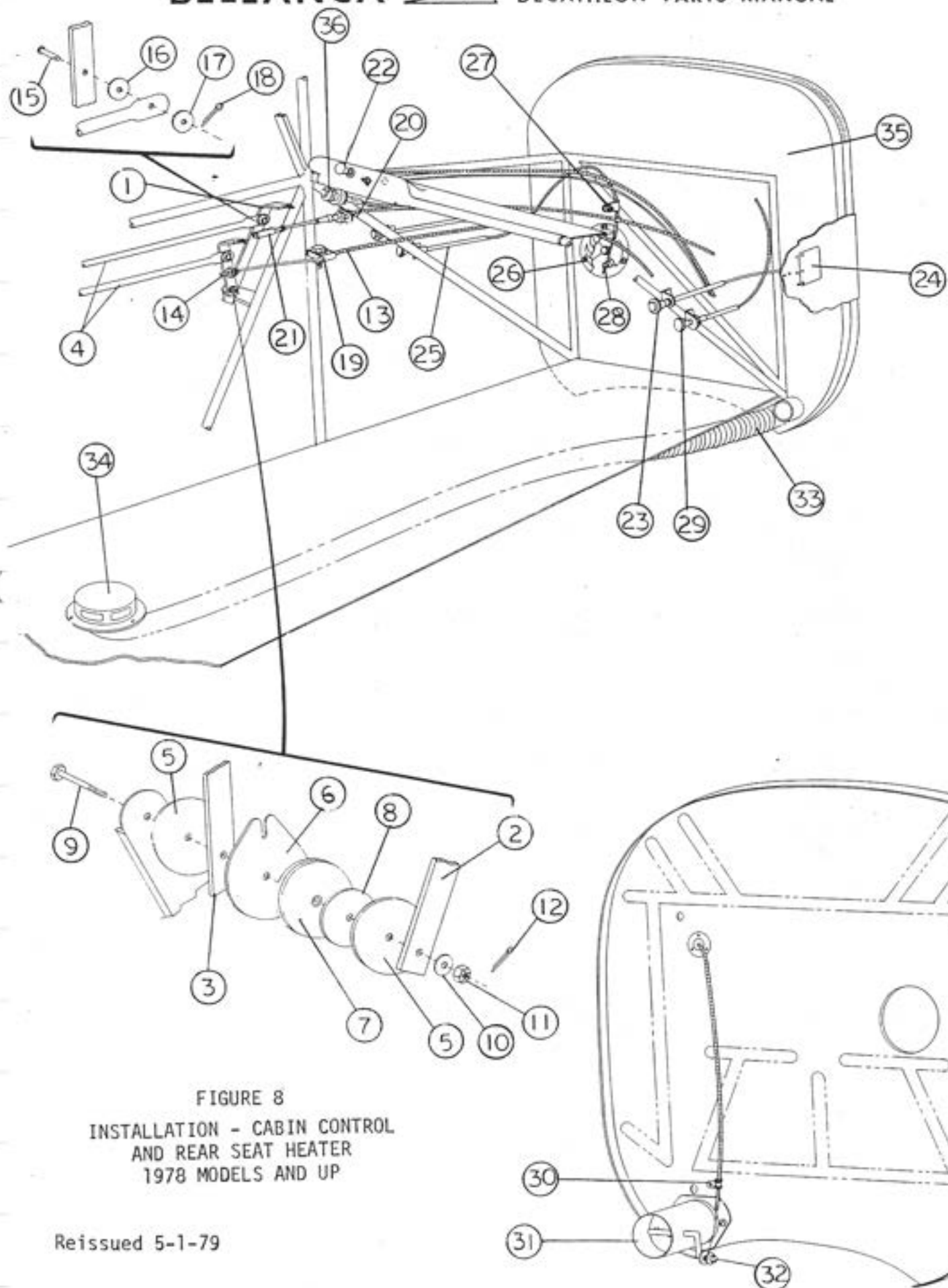


FIGURE 8  
INSTALLATION - CABIN CONTROL  
AND REAR SEAT HEATER  
1978 MODELS AND UP

Reissued 5-1-79



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER                | DESCRIPTION                                                                                                                        | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 8-                               | 7-1415<br>7-1478<br>7-1524 | DRAWING - INSTALLATION - FIXED EQUIPMENT<br>DRAWING - INSTALLATION - REAR SEAT HEATER<br>DRAWING - INSTALLATION - INSTRUMENT PANEL |                       |
| 1                                | 3-1401                     | SUB-ASSEMBLY THROTTLE AND CARB. HEAT<br>CONTROL (COMPLETE)                                                                         | 1                     |
| 2                                | 1-9940                     | CONTROL ARM - CARB. HEAT                                                                                                           | 2                     |
| 3                                | 2-715-2                    | CONTROL ARM - THROTTLE                                                                                                             | 2                     |
| 4                                | 1-2373                     | SHAFT ARM - CONNECTING                                                                                                             | 2                     |
| 5                                | 1-2381                     | WASHER (LEATHER)                                                                                                                   | 3                     |
| 6                                | 1-2380                     | PLATE - FRICTION TAB (FRONT ONLY)                                                                                                  | 1                     |
| 7                                | AN931-4-16                 | GROMMET (RUBBER)                                                                                                                   | 2                     |
| 8                                | AN970-A                    | WASHER                                                                                                                             | 2                     |
| 9                                | AN4-11                     | BOLT (ATTACHMENT) FRONT                                                                                                            | 1                     |
|                                  | AN4-10                     | BOLT (ATTACHMENT) REAR                                                                                                             | 1                     |
| 10                               | AN960-416                  | WASHER                                                                                                                             | 2                     |
| 11                               | AN310-4                    | NUT                                                                                                                                | 2                     |
| 12                               | AN380-2-2                  | PIN                                                                                                                                | 2                     |
| 13                               | 3-1402-6                   | CONTROL CABLE (CARB. HEAT)                                                                                                         | 1                     |
| 14                               | 1-9995                     | BOLT (CONTROL TO ARM ATTACHMENT)                                                                                                   | 1                     |
|                                  | AN960-416L                 | WASHER                                                                                                                             | 2                     |
|                                  | AN310-4                    | NUT                                                                                                                                | 1                     |
|                                  | AN380-2-2                  | COTTER PIN                                                                                                                         | 1                     |
| 15                               | AN393-11                   | PIN (SHAFT ATTACHMENT)                                                                                                             | 4                     |
| 16                               | AN960-10L                  | WASHER                                                                                                                             | 4                     |
| 17                               | AN960-10                   | WASHER                                                                                                                             | 4                     |
| 18                               | AN380-2-2                  | COTTER PNN                                                                                                                         | 4                     |
| 19                               | AN3-3A                     | BOLT (CASING TO FRAME ATTACHMENT)                                                                                                  | 1                     |
|                                  | 1-2577-1                   | SHIM                                                                                                                               | 1                     |
|                                  | AN742-4                    | CLAMP                                                                                                                              | 1                     |
|                                  | 1-2362                     | PLATE                                                                                                                              | 1                     |
|                                  | AN960-10                   | WASHER                                                                                                                             | 1                     |
|                                  | AN365-1032                 | NUT                                                                                                                                | 1                     |
| 20                               | 2-2089                     | CONTROL CABLE (THROTTLE)                                                                                                           | 1                     |
| 21                               | A31800                     | CLEVIS (CONTROL TO ARM ATTACHMENT)                                                                                                 | 1                     |
|                                  | AN315-3R                   | NUT                                                                                                                                | 1                     |
| 22                               | 1-9165-4                   | CONTROL - MIXTURE                                                                                                                  | 1                     |
| 23                               | 1-9165-8                   | CONTROL - FRONT SEAT HEAT                                                                                                          | 1                     |
|                                  | 1-10399-1                  | CONTROL - AIR VENT DOOR                                                                                                            | 2                     |
|                                  | AN526-1032-8               | SCREW                                                                                                                              | 2                     |
|                                  | MS21919-DF4                | CLAMP                                                                                                                              | 2                     |
|                                  | AN365-1032                 | NUT                                                                                                                                | 2                     |
|                                  | 1-2584                     | BOLT                                                                                                                               | 2                     |
|                                  | AN365-1032                 | NUT                                                                                                                                | 2                     |
|                                  | 1-10596                    | PLACARD - AIR VENT                                                                                                                 | 2                     |
| 24                               | 1-10557                    | DOOR - VENT                                                                                                                        | 2                     |
|                                  | 1-10558                    | HINGE - DOOR                                                                                                                       | 2                     |
|                                  | 1661-0414                  | RIVET                                                                                                                              | 12                    |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                       | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|-----------------------------------|-----------------------|
| 8-                               | AN960-6L    | WASHER                            | 12                    |
| 25                               | 1-9165-8    | CONTROL - FRONT SEAT HEATER       | 1                     |
|                                  | 1-10616-2   | PLACARD (FRONT SEAT HEAT)         | 1                     |
| 26                               | 3-1582      | HEATER BOX                        | 1                     |
|                                  | 2-2156      | DEFLECTOR                         | 1                     |
|                                  | AN515-8-10  | SCREW                             | 3                     |
|                                  | AN365-832   | NUT                               | 3                     |
| 27                               | AN4-4A      | BOLT (CABLE TO FRAME ATTACHMENT)  | 1                     |
|                                  | AN365-428   | NUT                               | 1                     |
|                                  | 1-2577      | SHIM                              | 1                     |
| 28                               | 1-2584      | BOLT                              | 1                     |
|                                  | AN960-10L   | WASHER                            | 1                     |
|                                  | AN365-1032  | NUT                               | 1                     |
| 29                               | 1-10348-3   | CONTROL - REAR SEAT HEATER        | 1                     |
|                                  | 1-10616-1   | PLACARD (REAR SEAT HEAT)          | 1                     |
| 30                               | MS21919-DF4 | CLAMP                             | 1                     |
|                                  | AS6-8-6SS   | SCREW                             | 1                     |
| 31                               | 2-2122      | HEATER BOX (REAR SEAT)            | 1                     |
|                                  | AN515-8-8   | BOLT                              | 2                     |
|                                  | AN365-832   | NUT                               | 2                     |
| 32                               | AN960-10    | WASHER                            | 1                     |
|                                  | AN380-2-2   | COTTER PIN                        | 1                     |
| 33                               | 3-985-22    | HOSE                              | 1                     |
|                                  | 5912        | CLAMP (HOSE TO VALVE ATTACHMENT)  | 1                     |
| 34                               | 1-9706-2    | SHROUD                            | 1                     |
|                                  | AS6-8-10SS  | SCREW                             | 3                     |
|                                  | 1-3670      | FLANGE                            | 1                     |
|                                  | AS6-8-10SS  | SCREW                             | 3                     |
|                                  | 5912        | CLAMP (HOSE TO FLANGE ATTACHMENT) | 1                     |
| 35                               | 4-1724      | SUB-ASSEMBLY FIREWALL             | 1                     |
|                                  | 4-1640      | FIREWALL - BLANK ONLY             | 1                     |
|                                  | 4-1723      | FIREWALL MAT ONLY                 | 1                     |
| 36                               | 2-2168      | GOVERNOR CONTROL                  | 1                     |
|                                  | 1-10126     | PLACARD                           | 1                     |
|                                  | 1-10195-1   | COVER (GOVERNOR CONTROL LUG)      | 1                     |

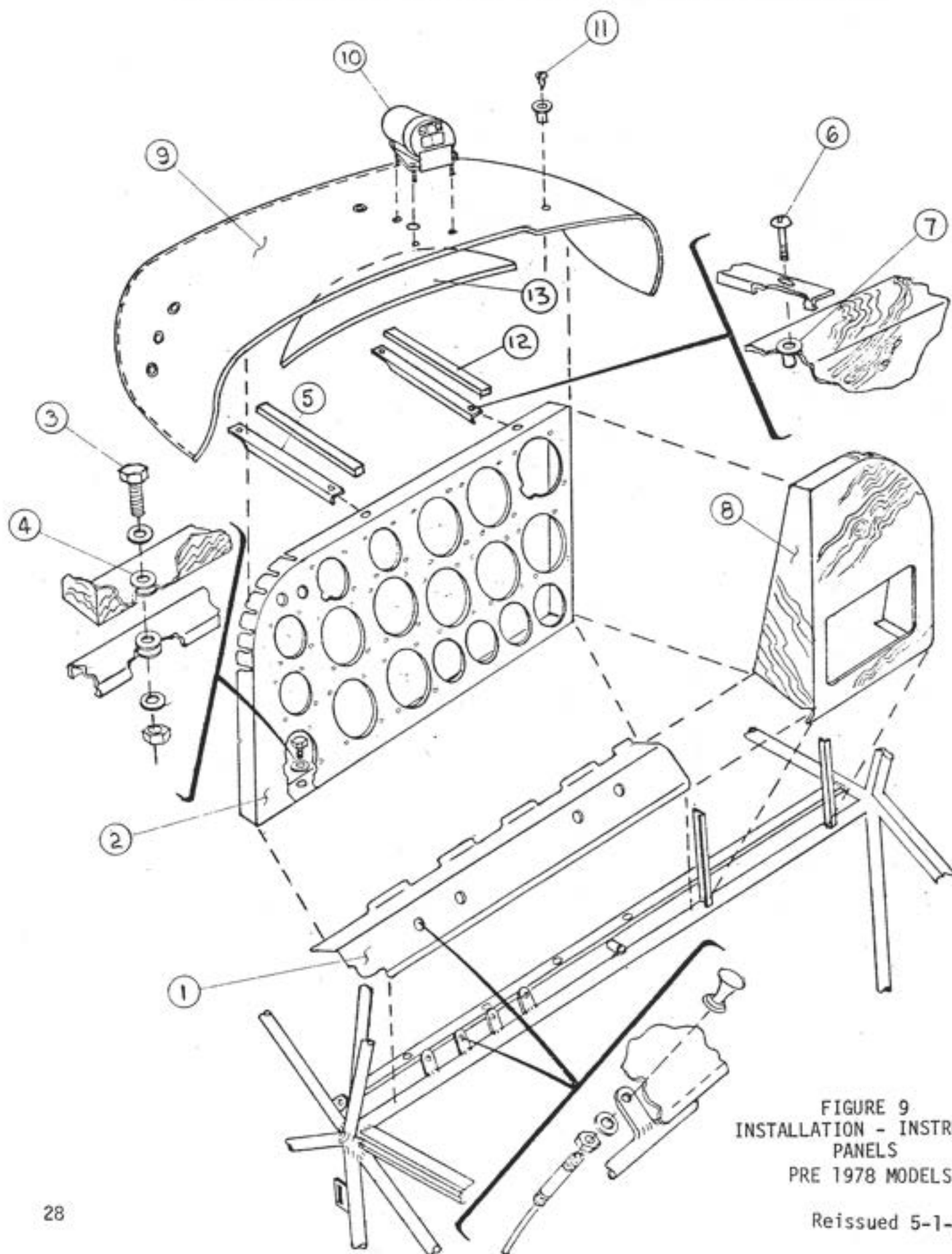


FIGURE 9  
INSTALLATION - INSTRUMENT  
PANELS  
PRE 1978 MODELS

Reissued 5-1-79



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                             | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|-----------------------------------------|-----------------------|
| 9-                               | 7-1422      | DRAWING - INSTALLATION INSTRUMENT PANEL |                       |
| 1                                | 4-1054-04   | PANEL - LOWER CONTROL                   | 1                     |
| 2                                | 4-1428-04   | INSTRUMENT PANEL (LOW)                  | 1                     |
|                                  | 3-1560      | INSTRUMENT PANEL (HIGH)                 | 1                     |
| 3                                | AN3-7A      | BOLT - PANEL ATTACHMENT                 | 4                     |
|                                  | AN970-3     | WASHER                                  | 8                     |
|                                  | AN960-10    | WASHER                                  | 8                     |
|                                  | AN365-1032  | NUT                                     | 4                     |
| 4                                | AN931-3-9   | GROMMET                                 | 8                     |
| 5                                | 1-8891      | ANGLE - PANEL SUPPORT (HIGH)            | 2                     |
|                                  | 1601-0410   | RIVET FORWARD ATTACHMENT                | 2                     |
|                                  | 1-8891-1    | ANGLE - PANEL SUPPORT (LOW)             | 2                     |
|                                  | 1601-0410   | RIVET FORWARD ATTACHMENT                | 2                     |
| 6                                | AN515B8R8   | SCREW                                   | 2                     |
|                                  | B832        | RUBBER NUT                              | 2                     |
| 8                                | 2-1565      | RADIO PANEL (HIGH) BLANK ONLY           | 1                     |
|                                  | 2-1919-1    | RADIO PANEL (LOW) BLANK ONLY            | 1                     |
| 9                                | 4-1551      | COVER - INSTRUMENT PANEL (LOW)          | 1                     |
|                                  | 4-1648      | COVER - INSTRUMENT PANEL (HIGH)         | 1                     |
| 10                               | C2400L4P    | COMPASS                                 | 1                     |
|                                  | C2300L4     | COMPASS - HIGH PANEL (PANEL MOUNT ONLY) | 1                     |
| 11                               | AN515B8R8   | SCREW                                   | 3                     |
|                                  | B832        | RUBBER NUT                              | 3                     |
| 12                               | 1-10597     | SPACER - FOAM - ANGLES                  | 2                     |
| 13                               | 3-1610      | SPACER - FOAM - WRAPAROUND              | 1                     |

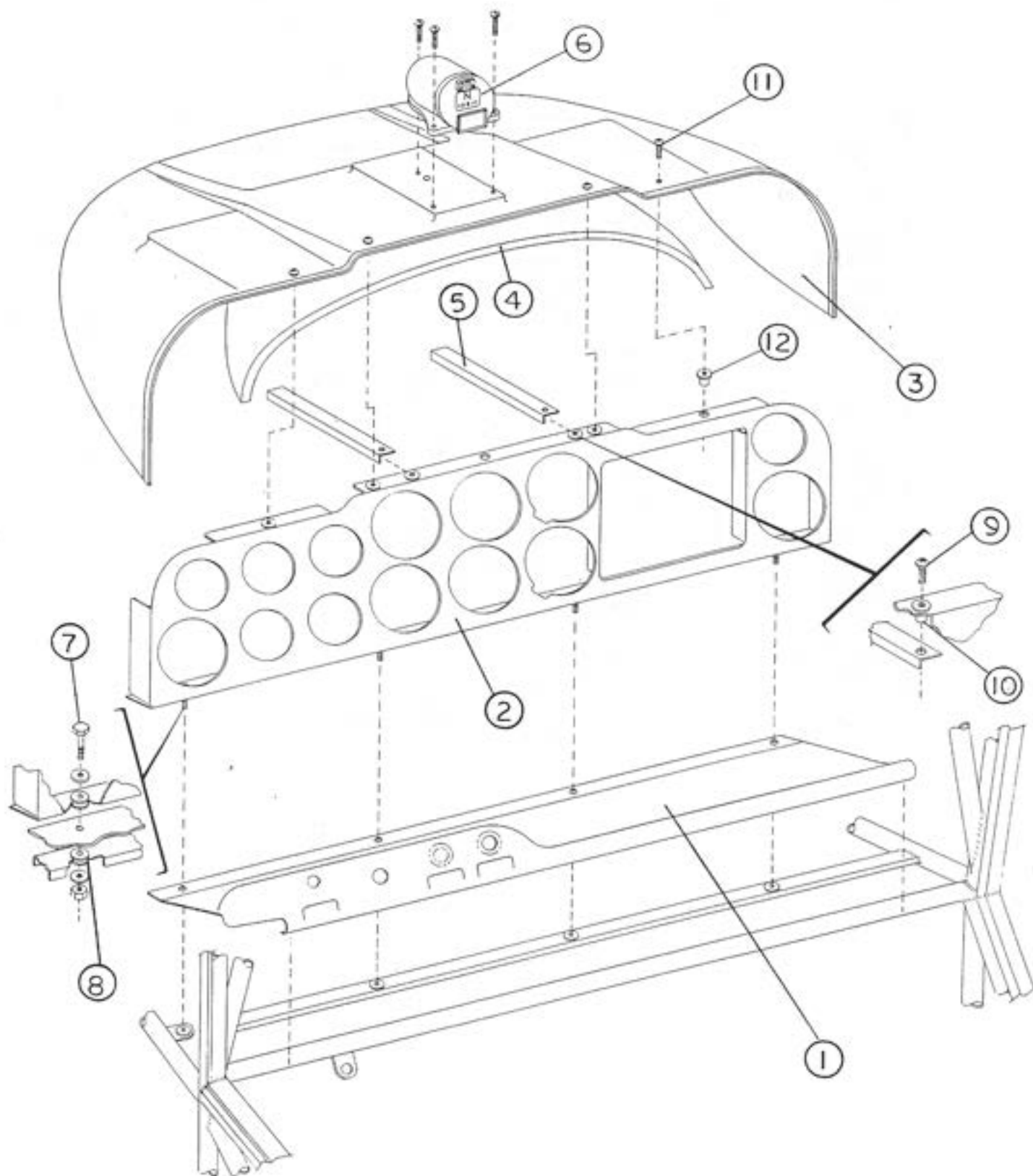


FIGURE 10  
INSTALLATION - INSTRUMENT PANEL  
1978 MODELS AND UP

Reissued 5-1-79



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                             | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|-----------------------------------------|-----------------------|
| 10-                              |             | DRAWING - INSTALLATION INSTRUMENT PANEL |                       |
| 1                                | 4-1734-3    | CONTROL PANEL                           | 1                     |
|                                  | 75-1/16-B-3 | FLEXIBLE TRIM                           | 1                     |
| 2                                | 5-390       | INSTRUMENT PANEL                        | 1                     |
| 3                                | 4-1736-1    | COVER - INSTRUMENT PANEL                | 1                     |
| 4                                | 3-1610      | SPACER - INSTRUMENT PANEL COVER         | 1                     |
| 5                                | 1-8891-1    | SUPPORT                                 | 2                     |
| 6                                | C2400L4P    | COMPASS                                 | 1                     |
|                                  | AN515B6-8   | SCREW                                   | 3                     |
|                                  | AN340B6     | NUT                                     | 3                     |
|                                  | BA16-6      | TERMINAL - RING TERMINAL                | 1                     |
|                                  | YZ18-H      | TERMINAL - DISCONNECT                   | 1                     |
| 7                                | AN3-5A      | BOLT                                    | 4                     |
|                                  | AN960-10    | WASHER                                  | 4                     |
|                                  | AN365-1032  | NUT                                     | 4                     |
| 8                                | AN931-3-9   | GROMMET                                 | 8                     |
| 9                                | AN515B8R8   | SCREW                                   | 2                     |
| 10                               | B-832       | WELL NUT                                | 2                     |
| 11                               | AN515B8R8   | SCREW                                   | 5                     |
| 12                               | B-832       | WELL NUT                                | 5                     |

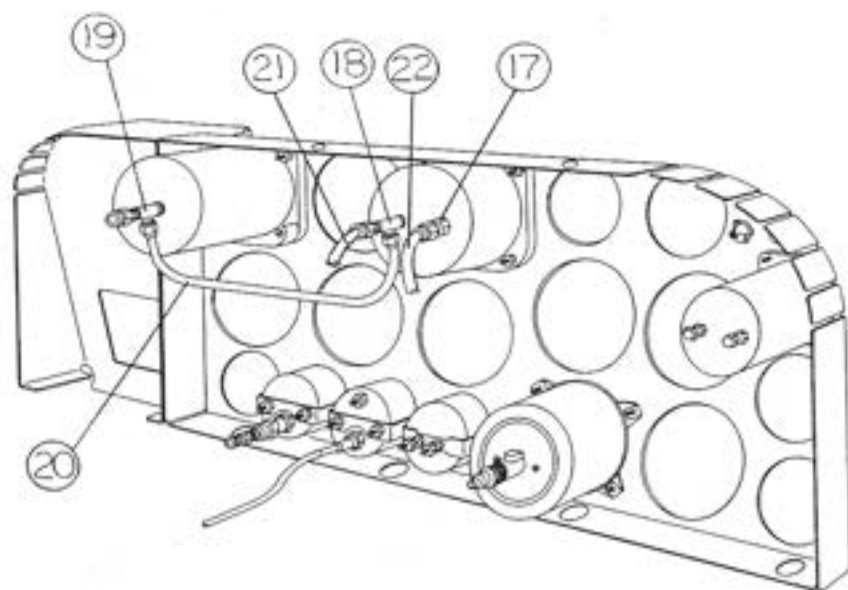
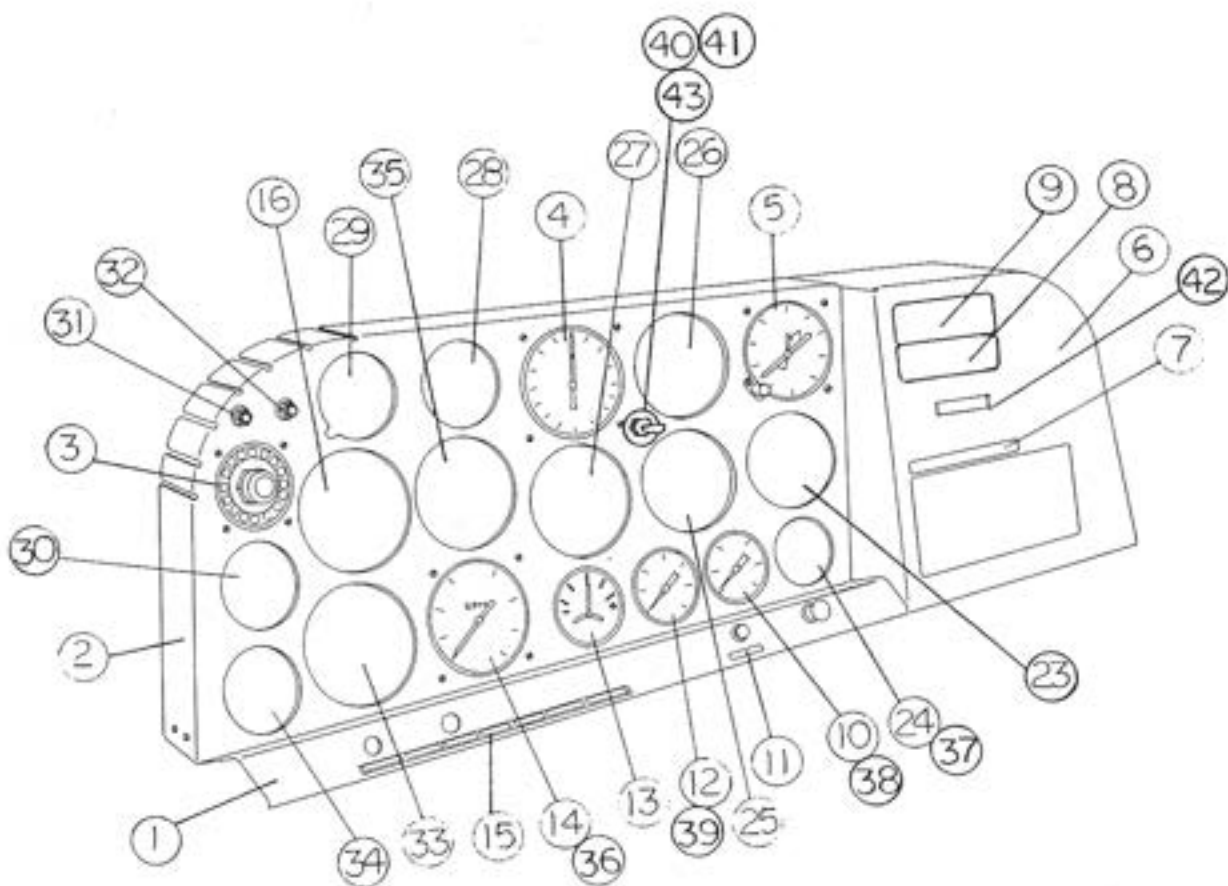


FIGURE 11  
INSTALLATION - INSTRUMENTS (HIGH PANEL)  
PRE 1978 MODELS

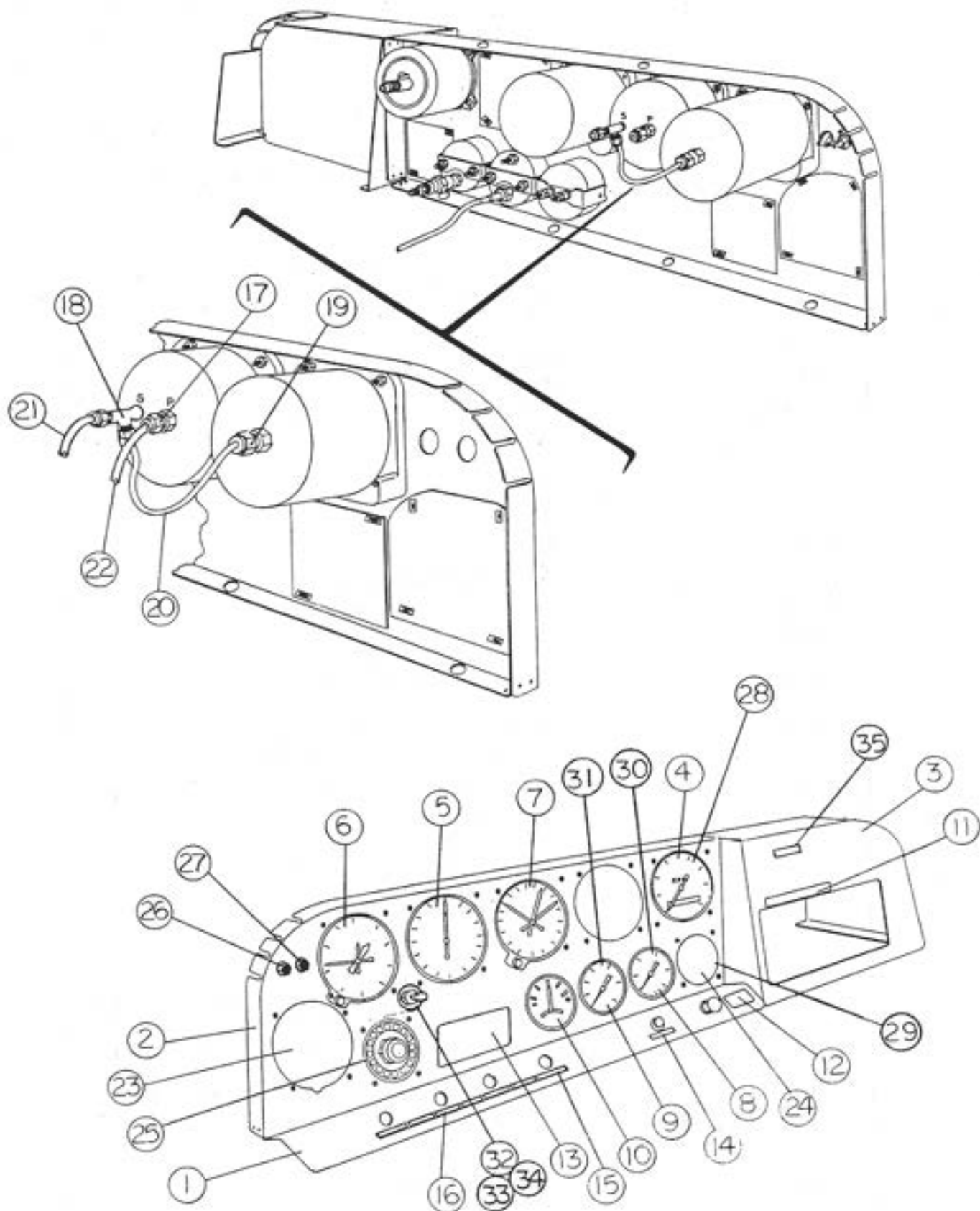




| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                    | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|------------------------------------------------|-----------------------|
| 11-                              | 7-1422      | DRAWING - INSTALLATION INSTRUMENT PANEL (HIGH) |                       |
| 1                                | 4-1054-4    | PANEL - LOWER CONTROL                          | 1                     |
| 2                                | 3-1560-1    | PANEL - INSTRUMENT (HIGH)                      | 1                     |
| 3                                | 4-1401      | INSTALLATION STALL WARNING KIT                 | 1                     |
| 4                                |             | AIRSPPEED - INDICATOR                          | 1                     |
|                                  | AN515B6-12  | SCREW                                          | 4                     |
|                                  | AN340-6     | NUT                                            | 4                     |
| 5                                |             | ALTIMETER - SENSITIVE                          | 1                     |
|                                  | AN515B6-12  | SCREW                                          | 4                     |
|                                  | AN340-6     | NUT                                            | 4                     |
| 6                                | 3-1565      | PANEL - RADIO - HIGH (BLANK ONLY)              | 1                     |
| 7                                | 1-9889      | PLACARD - COMPASS CALIBRATED                   | 1                     |
| 8                                | 1-10148     | PLACARD - SPEEDS                               | 1                     |
| 9                                | 1-10149     | PLACARD - OPERATING LIMITATIONS                | 1                     |
| 10                               |             | OIL PRESSURE GAUGE                             | 1                     |
|                                  | 7-1272-9    | LINE - INSTRUMENT TO FIREWALL                  | 1                     |
|                                  | AN818-3D    | NUT - LINE ATTACHMENT                          | 1                     |
|                                  | AN819-3D    | SLEEVE - LINE ATTACHMENT                       | 1                     |
|                                  | AN816-3D    | NIPPLE - INSTRUMENT                            | 1                     |
|                                  | AN910-1D    | COUPLING - INSTRUMENT                          | 1                     |
| 11                               | 1-10005     | PLACARD - STARTER                              | 1                     |
| 12                               |             | OIL TEMPERATURE GAUGE                          | 1                     |
|                                  | 103694      | GASKET ENGINE ATTACHMENT                       | 1                     |
|                                  | 1-10291     | ADAPTER ENGINE ATTACHMENT                      | 1                     |
| 13                               |             | AMMETER                                        | 1                     |
| 14                               |             | TACHOMETER RECORDING                           | 1                     |
|                                  | AN515B6-5   | SCREW - ATTACHMENT                             | 4                     |
|                                  | 446642-28   | TACHOMETER - SHAFT                             | 1                     |
| 15                               | 1-9908      | PLACARD - CONTROL PANEL                        | 1                     |
| 16                               |             | ACCELEROMETER                                  | 1                     |
|                                  | AN515B6-12  | SCREW                                          | 3                     |
|                                  | AN340-6     | NUT                                            | 3                     |
| 17                               | 62001       | FITTING - ADAPTER - AIRSPEED                   | 1                     |
| 18                               | 62056       | FITTING - TEE - AIRSPEED                       | 1                     |
| 19                               | 62029       | FITTING - ELBOW - ALTIMETER                    | 1                     |
|                                  | 62056       | FITTING REQ'D ON ALTIMETER W/RATE OF CLIMB     | 1                     |
| 20                               | 7-1422-5    | LINE - AIRSPEED TO ALTIMETER                   | 1                     |
| 21                               | 1-9048-5    | PITOT LINE - INSTRUMENT STATIC TO ALT. STATIC  |                       |
|                                  |             | AIR VALVE                                      | 1                     |
| 22                               | 1-9048-3    | PITOT LINE - INSTRUMENT PITOT TO WING GAP      | 1                     |
| 23                               |             | RATE OF CLIMB                                  | 1                     |
|                                  | AN515B6-12  | SCREW                                          | 3                     |
|                                  | AN340-6     | NUT                                            | 3                     |
|                                  | 62029       | FITTING - ADAPTER                              | 1                     |
|                                  | 7-1422-5    | LINE - RATE OF CLIMB TO ALTIMETER              | 1                     |
| 24                               |             | FUEL PRESSURE                                  | 1                     |
|                                  | 1-9667-12   | LINE                                           | 1                     |
|                                  | AN910-1D    | COUPLING                                       | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                  | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------|----------------------------------------------|-----------------------|
| 11-                              | 68F 1/8 x 1/8 | FITTING                                      | 1                     |
| 25                               |               | DIRECTIONAL INDICATOR                        | 1                     |
| 26                               |               | ARTIFICIAL HORIZON                           | 1                     |
| 27                               |               | TURN AND BANK                                | 1                     |
|                                  |               | 3 PIN CANNON PLUG ASSEMBLY (ELECTRICAL ONLY) | 1                     |
| 28                               | C2300L4       | COMPASS - PANEL MOUNT                        | 1                     |
| 29                               |               | CLOCK                                        | 1                     |
| 30                               |               | SUCTION GAUGE                                | 1                     |
| 31                               |               | MIKE JACK                                    | 1                     |
| 32                               |               | PHONE JACK                                   | 1                     |
| 33                               |               | MANIFOLD PRESSURE GAUGE                      | 1                     |
|                                  | AN515B6-12    | SCREW                                        | 4                     |
|                                  | AN340-6       | NUT                                          | 4                     |
|                                  | 1-2392-9      | LINE - INSTRUMENT TO ENGINE                  | 1                     |
|                                  | 68F 1/8 x 1/8 | FITTING                                      | 1                     |
| 34                               | 3-1354        | INSTALLATION HOUR METER                      | 1                     |
| 35                               |               | CYLINDER HEAD TEMPERATURE                    | 1                     |
| 36                               | 1-10438       | DECAL - TACHOMETER MARKING                   | 1                     |
| 37                               | 1-10439       | DECAL - FUEL PRESSURE MARKING                | 1                     |
| 38                               | 1-10440       | DECAL - OIL PRESSURE MARKING                 | 1                     |
| 39                               | 1-10441       | DECAL - OIL TEMPERATURE MARKING              | 1                     |
| 40                               | MTV-3P        | VALVE (ALT. STATIC AIR) PANEL MOUNTED        | 1                     |
|                                  | 11752-1       | FITTING (BRASS)                              | 1                     |
|                                  | AN910-1D      | COUPLING (ALUM.)                             | 1                     |
|                                  | 62001         | ADAPTER (PLASTIC)                            | 1                     |
| 41                               | 1-9048-3      | LINE                                         | 1                     |
| 42                               | 196717        | PLACARD (REGISTRATION IDENTIFICATION)        | 1                     |
| 43                               | 1-10560       | PLACARD (STATIC AIR)                         | 1                     |



Reissued 5-1-79

FIGURE 12  
INSTALLATION - INSTRUMENTS  
(LOW PANEL)  
PRE 1978 MODELS



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                   | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------|-----------------------------------------------|-----------------------|
| 12-                              | 7-1422        | DRAWING - INSTALLATION INSTRUMENT PANEL (LOW) |                       |
| 1                                | 4-1054-4      | PANEL - LOWER CONTROL                         | 1                     |
| 2                                | 4-1428-7      | PANEL - INSTRUMENT (LOW)                      | 1                     |
| 3                                | 2-1919-1      | PANEL - RADIO LOW (BLANK ONLY)                | 1                     |
| 4                                |               | TACHOMETER RECORDING                          | 1                     |
|                                  | AN515B6-5     | SCREW - ATTACHMENT                            | 4                     |
|                                  | 446642-25.5   | TACHOMETER - SHAFT                            | 1                     |
| 5                                |               | AIRSPEED INDICATOR                            | 1                     |
|                                  | AN515B6-12    | SCREW                                         | 4                     |
|                                  | AN340-6       | NUT                                           | 4                     |
| 6                                |               | ALTIMETER - SENSITIVE                         | 1                     |
|                                  | AN515B6-12    | SCREW                                         | 4                     |
|                                  | AN340-6       | NUT                                           | 4                     |
| 7                                |               | ACCELEROMETER                                 | 1                     |
|                                  | AN515B6-12    | SCREW                                         | 3                     |
|                                  | AN340-6       | NUT                                           | 3                     |
| 8                                |               | OIL PRESSURE GAUGE                            | 1                     |
|                                  | 7-1272-9      | LINE - INSTRUMENT TO FIREWALL                 | 1                     |
|                                  | AN818-3D      | NUT - LINE ATTACHMENT                         | 1                     |
|                                  | AN819-3D      | SLEEVE - LINE ATTACHMENT                      | 1                     |
|                                  | AN816-3D      | NIPPLE - INSTRUMENT                           | 1                     |
|                                  | AN910-1D      | COUPLING - INSTRUMENT                         | 1                     |
| 9                                |               | OIL TEMPERATURE GAUGE                         | 1                     |
|                                  | 103694        | GASKET - ENGINE ATTACHMENT                    | 1                     |
|                                  | 1-10291       | ADAPTER - ENGINE ATTACHMENT                   | 1                     |
| 10                               |               | AMMETER                                       | 1                     |
| 11                               | 1-9889        | PLACARD - COMPASS CALIBRATED WITH RADIO ON    | 1                     |
| 12                               | 1-10148       | PLACARD - SPEEDS                              | 1                     |
| 13                               | 1-10149       | PLACARD - OPERATING LIMITATIONS               | 1                     |
| 14                               | 1-10005       | PLACARD - STARTER                             | 1                     |
| 15                               | 1-10272       | PLACARD - NO SMOKING                          | 1                     |
| 16                               | 1-9908        | PLACARD - CONTROL PANEL                       | 1                     |
| 17                               | 62001         | FITTING - ADAPTER - AIRSPEED                  | 1                     |
| 18                               | 62056         | FITTING - TEE - AIRSPEED                      | 1                     |
| 19                               | 62029         | FITTING - ELBOW - ALTIMETER                   | 1                     |
|                                  | 62056         | FITTING - REQ'D ON ALTIMETER W/RATE OF CLIMB  | 1                     |
| 20                               | 7-1422-5      | LINE - AIRSPEED TO ALTIMETER                  | 1                     |
| 21                               | 7-1422-5      | PITOT LINE - INSTRUMENT STATIC TO ALT. STATIC | 1                     |
| 22                               |               | AIR VALVE                                     | 1                     |
| 23                               | 1-9048-3      | PITOT LINE - INSTRUMENT PITOT TO WING GAP     | 1                     |
|                                  |               | MANIFOLD PRESSURE GAUGE                       | 1                     |
|                                  | AN515B6-12    | SCREW                                         | 4                     |
|                                  | AN340-6       | NUT                                           | 4                     |
|                                  | 1-2392-9      | LINE - INSTRUMENT TO ENGINE                   | 1                     |
|                                  | 68F 1/8 x 1/8 | FITTING                                       | 2                     |
| 24                               |               | FUEL PRESSURE                                 | 1                     |
|                                  | 1-9667-12     | LINE                                          | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                           | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------|---------------------------------------|-----------------------|
| 12-                              | AN910-1D      | COUPLING                              | 1                     |
|                                  | 68F 1/8 x 1/8 | FITTING                               | 1                     |
| 25                               | 4-1401        | INSTALLATION STALL WARNING            | 1                     |
| 26                               |               | PHONE JACK                            | 1                     |
| 27                               |               | MIKE JACK                             | 1                     |
| 28                               | 1-10438       | DECAL - TACHOMETER MARKING            | 1                     |
| 29                               | 1-10439       | DECAL - FUEL PRESSURE MARKING         | 1                     |
| 30                               | 1-10440       | DECAL - OIL PRESSURE MARKING          | 1                     |
| 31                               | 1-10441       | DECAL - OIL TEMPERATURE MARKING       | 1                     |
| 32                               | MTV-3P        | VALVE (ALT. STATIC AIR) PANEL MOUNTED | 1                     |
|                                  | 11752-1       | FITTING (BRASS)                       | 1                     |
|                                  | AN910-1D      | COUPLING (ALUM.)                      | 1                     |
|                                  | 62001         | ADAPTER (PLASTIC)                     | 1                     |
| 33                               | 1-9048-3      | LINE                                  | 1                     |
| 34                               | 1-10560       | PLACARD (STATIC AIR)                  | 1                     |
| 35                               | 196717        | PLACARD (REGISTRATION IDENTIFICATION) | 1                     |

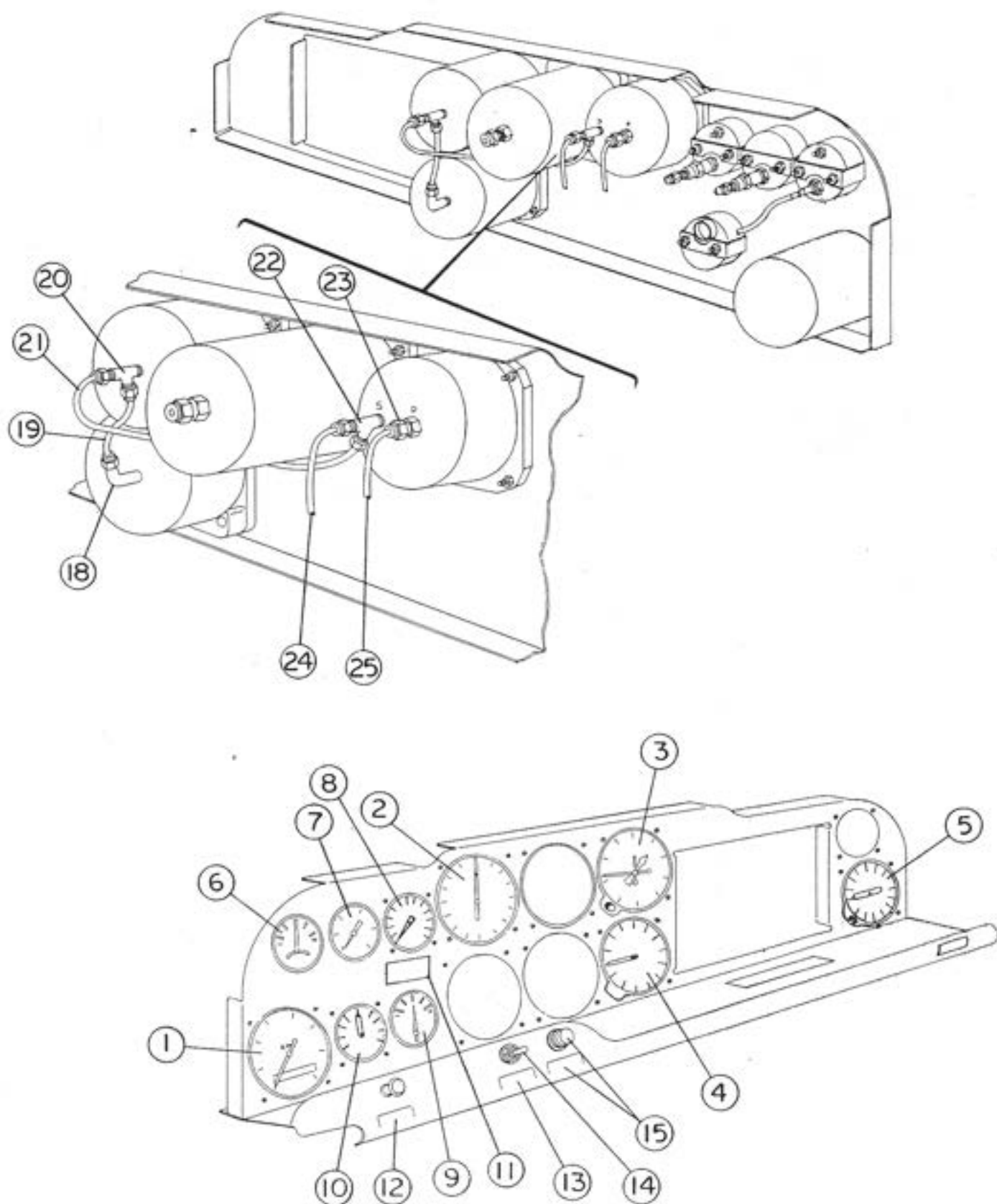


FIGURE 13  
INSTALLATION - INSTRUMENTS

1978 MODELS AND UP

Reissued 5-1-79



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                                                                 | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------|-----------------------------------------------------------------------------|-----------------------|
| 13-                              | 7-1524         | DRAWING - INSTALLATION INSTRUMENT PANEL                                     |                       |
| 1                                | AN515B6R5      | TACHOMETER                                                                  | 1                     |
|                                  | 446642-30      | SCREW                                                                       | 4                     |
|                                  | 1-10438        | TACHOMETER SHAFT                                                            | 1                     |
|                                  | 1-10605        | DECAL - INSTRUMENT MARKING (150 HP)                                         | 1                     |
|                                  |                | DECAL - INSTRUMENT MARKING (180 HP)                                         | 1                     |
| 2                                |                | AIR SPEED                                                                   | 1                     |
|                                  | AN515B6R12     | SCREW                                                                       | 4                     |
|                                  | AN340-6        | NUT                                                                         | 4                     |
| 3                                |                | ALTIMETER - SENSITIVE                                                       | 1                     |
|                                  | AN515B6R12     | SCREW                                                                       | 3                     |
|                                  | AN340-6        | NUT                                                                         | 3                     |
| 4                                |                | RATE OF CLIMB (OPTIONAL)                                                    | 1                     |
|                                  | AN515B6R12     | SCREW                                                                       | 3                     |
|                                  | AN340-6        | NUT                                                                         | 3                     |
| 5                                |                | ACCELEROMETER                                                               | 1                     |
|                                  | AN515B6R12     | SCREW                                                                       | 3                     |
| 6                                |                | OIL TEMPERATURE GAUGE                                                       | 1                     |
|                                  | 1-10441        | DECAL - INSTRUMENT MARKING                                                  | 1                     |
|                                  | 103694         | GASKET - ENGINE ATTACHMENT                                                  | 1                     |
|                                  | 1-10291        | ADAPTER - ENGINE ATTACHMENT                                                 | 1                     |
| 7                                |                | OIL PRESSURE GAUGE                                                          | 1                     |
|                                  | 1-10440        | DECAL - INSTRUMENT MARKING                                                  | 1                     |
|                                  | 7-1524-15      | LINE - INSTRUMENT TO FIREWALL                                               | 1                     |
|                                  | AN818-3D       | NUT                                                                         | 2                     |
|                                  | AN819-3D       | SLEEVE                                                                      | 2                     |
|                                  | AN816-3D       | NIPPLE - INSTRUMENT                                                         | 1                     |
|                                  | AN910-1D       | COUPLING - INSTRUMENT                                                       | 1                     |
| 8                                |                | FUEL PRESSURE GAUGE                                                         | 1                     |
|                                  | 1-10439        | DECAL - INSTRUMENT MARKING                                                  | 1                     |
|                                  | 1-10620        | PLATE - SUPPORT                                                             | 1                     |
|                                  | AN515B6R5      | SCREW                                                                       | 4                     |
|                                  | AN340-6        | NUT                                                                         | 4                     |
| 9                                |                | AMMETER GAUGE                                                               | 1                     |
| 10                               |                | MANIFOLD PRESSURE GAUGE                                                     | 1                     |
|                                  | 1-2392-9       | LINE                                                                        | 1                     |
|                                  | 68F 1/8 x 1/8  | FITTING                                                                     | 2                     |
| 11                               | 1-10613        | PLACARD (MANEUVERING SPEED)                                                 | 1                     |
| 12                               | 1-10612        | PLACARD (MIXTURE)                                                           | 1                     |
| 13                               | 1-10618        | PLACARD (EMERGENCY FUEL PUMP)                                               | 1                     |
| 14                               | 11TS150-2      | SWITCH (EMERGENCY FUEL PUMP)                                                | 1                     |
| 15                               | 1-8980         | STARTER                                                                     | 1                     |
|                                  | 1-10005        | PLACARD (STARTER)                                                           | 1                     |
| 16                               | 1-9889         | PLACARD (REQ'D WITH RADIO INSTRUMENT)<br>(COMPASS CALIBRATED WITH RADIO ON) | 1                     |
| 17                               | 1-10180        | PLACARD (PARKING BRAKE)                                                     | 1                     |
| 18                               | 69F 3/16 x 1/8 | ELBOW                                                                       | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                           | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------|---------------------------------------|-----------------------|
| 13-19                            | 7-1524-13      | LINE                                  | 1                     |
| 20                               | 68F 3/16 x 1/8 | FITTING (REQ'D WITHOUT RATE OF CLIMB) | 1                     |
|                                  | 71F 3/16 x 1/8 | FITTING (REQ'D WITH RATE OF CLIMB)    | 1                     |
| 21                               | 7-1524-12      | LINE                                  | 1                     |
| 22                               | 71F 3/16 x 1/8 | FITTING                               | 1                     |
| 23                               | 62001          | ADAPTER                               | 1                     |
| 24                               | 7-1519-6       | STATIC LINE                           | 1                     |
| 25                               | 1-9048-3       | PITOT LINE                            | 1                     |



| FIGURE AND INDEX NUMBER | PART NUMBER   | DESCRIPTION                              | UNITS PER ASS'Y |
|-------------------------|---------------|------------------------------------------|-----------------|
| 14-                     | 7-1519        | DRAWING - INSTALLATION STATIC SYSTEM     |                 |
| 1                       | 11-0662       | STATIC PORT                              | 2               |
| 2                       | 1-10590       | SUPPORT STATIC PORT                      | 2               |
| 3                       | AN526-1032-10 | SCREW                                    | 2               |
|                         | AN960-10      | WASHER                                   | 2               |
|                         | AN365-1032    | NUT                                      | 2               |
| 4                       | C40785-017    | FASTENER                                 | 2               |
| 5                       | 7-1519-10     | LINE - TEE TO RIGHT PORT                 | 1               |
| 6                       | 62063         | TEE - PLASTIC                            | 1               |
| 7                       | 7-1519-8      | LINE - TEE TO LEFT PORT                  | 1               |
| 8                       | 7-1519-9      | LINE - TEE TO ALUMINUM - 6 LINE          | 1               |
| 9                       | 7-1519-6      | LINE - ALUMINUM - TEE TO AIRSPEED STATIC | 1               |

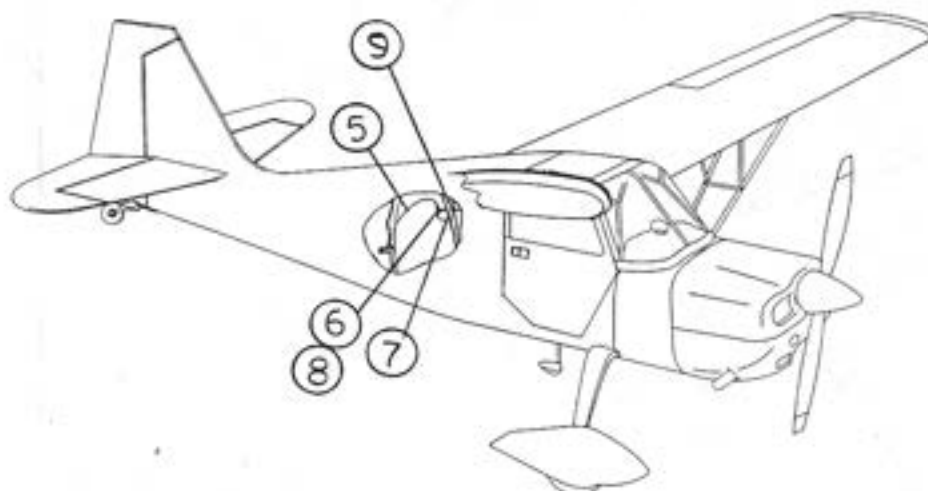


FIGURE 14  
INSTALLATION STATIC SYSTEM  
APPLICABLE SERIAL NO'S. 299-77 AND UP.

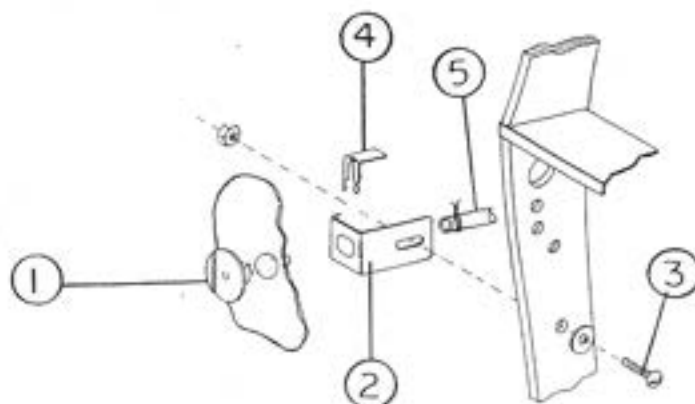
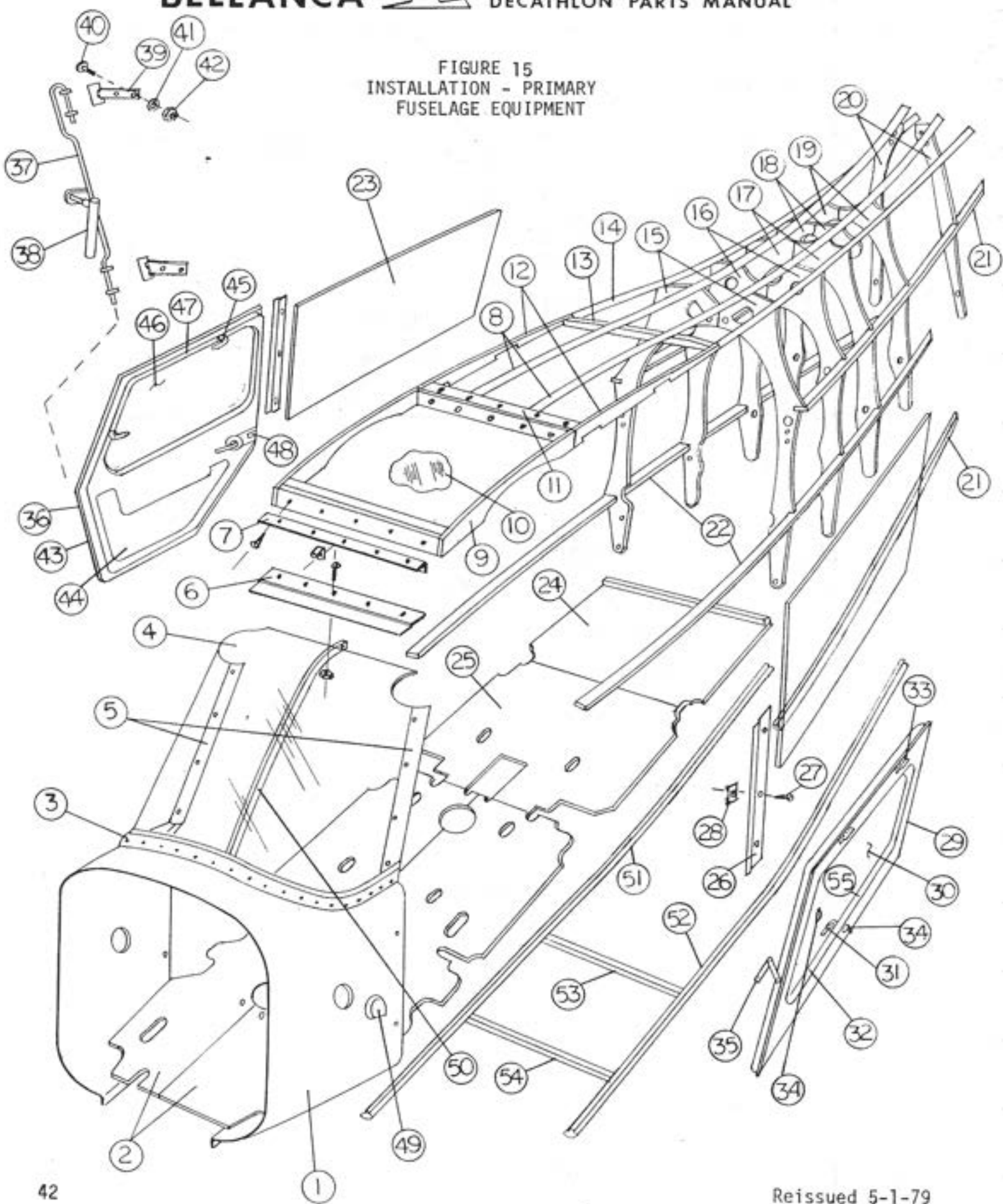




FIGURE 15  
INSTALLATION - PRIMARY  
FUSELAGE EQUIPMENT





| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER                                                                                                | DESCRIPTION                                                                                                                                                                                                                                                                                                                         | UNITS<br>PER<br>ASS'Y                           |
|----------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 15-                              | 4-1490<br>7-1269<br>7-1415<br>7-1416<br>7-1419                                                             | DRAWING - INSTALLATION CABIN WINDOW<br>DRAWING - INSTALLATION INTERIOR CABIN PANELS<br>DRAWING - FIXED EQUIPMENT<br>DRAWING - FUSELAGE FAIRINGS<br>DRAWING - INSTALLATION WINDSHIELD                                                                                                                                                |                                                 |
| 1                                | 7-1472<br>7-509-7<br>7-509-3<br>7-10000<br>AN520-416-4<br>AN365-428<br>7-1472-3<br>AS6-4-6FS<br>A1776-4Z-1 | ASSEMBLY WRAPAROUND (VENT DOOR)<br>ASSEMBLY WRAPAROUND (ROUND VENT)<br>INSULATION WRAPAROUND (PRE 1974 MODEL)<br>INTERIOR PANEL WRAPAROUND (PRE 1974 MODEL)<br>SCREW - ATTACHMENT (PRE 1974 MODEL)<br>NUT - ATTACHMENT (PRE 1974 MODELS)<br>INSULATION WRAPAROUND<br>SCREW - ATTACHMENT TO FIREWALL<br>NUT - ATTACHMENT TO FIREWALL | 1<br>1<br>1<br>1L/1R<br>2<br>2<br>1<br>12<br>12 |
| 2                                | 5-296                                                                                                      | FLOORBOARD                                                                                                                                                                                                                                                                                                                          | 1L/1R                                           |
| 3                                | 4-1369                                                                                                     | RETAINER - WINDSHIELD TO WRAPAROUND<br>1601-0610 RIVET - ATTACHMENT                                                                                                                                                                                                                                                                 | 1<br>32                                         |
| 4                                | 7-1418                                                                                                     | WINDSHIELD                                                                                                                                                                                                                                                                                                                          | 1                                               |
| 5                                | 3-474-2<br>AN526-832-8<br>B-832                                                                            | RETAINER - WINDSHIELD<br>SCREW - ATTACHMENT<br>NUT                                                                                                                                                                                                                                                                                  | 1L/1R<br>10<br>10                               |
| 6                                | 2-1880-1<br>2-2002-1<br>AN526-832-10<br>B-832                                                              | RETAINER - WINDSHIELD TOP GREENHOUSE<br>RUBBER SEAL<br>SCREW - ATTACHMENT<br>NUT (RUBBER)                                                                                                                                                                                                                                           | 1<br>1<br>5<br>5                                |
| 7                                | 2-1908<br>2-2081<br>AN515-8-16<br>AN960-10L<br>AN365-832                                                   | SUPPORT - WINDSHIELD (GREENHOUSE)<br>SUPPORT (GREENHOUSE)<br>SCREW - ATTACHMENT<br>WASHER<br>NUT                                                                                                                                                                                                                                    | 1<br>1<br>5<br>5<br>5                           |
| 8                                | 1-9992                                                                                                     | STRINGER (GREENHOUSE)                                                                                                                                                                                                                                                                                                               | 2                                               |
| 9                                | 3-1439<br>AN515-8-14<br>AN960-10L<br>AN365-832                                                             | FORWARD - TOP FORMER (GREENHOUSE)<br>SCREW - ATTACHMENT<br>WASHER<br>NUT                                                                                                                                                                                                                                                            | 1<br>8<br>8<br>8                                |
| 10                               | 7-1286<br>1/8"<br>AN526-640-7<br>AN364-640                                                                 | GREENHOUSE WINDOW<br>VINYL BEADING SEAL<br>SCREW - AFT ATTACHMENT<br>NUT                                                                                                                                                                                                                                                            | 1<br>AS REQ'D<br>5<br>5                         |
| 11                               | 4-1416<br>AN515-8-16<br>AN960-10L<br>AN365-832                                                             | RETAINER - AFT (GREENHOUSE)<br>SCREW - ATTACHMENT<br>WASHER<br>NUT                                                                                                                                                                                                                                                                  | 1<br>5<br>5<br>5                                |
| 12                               | 4-1492<br>AN515-8-14<br>AN960-10L<br>AN365-832                                                             | RIB<br>SCREW<br>WASHER<br>NUT                                                                                                                                                                                                                                                                                                       | 2<br>4<br>4<br>4                                |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                 | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------|-----------------------------|-----------------------|
| 15-13                            | 4-1495         | RIB                         | 2                     |
|                                  | AN515-8-14     | SCREW                       | 2                     |
|                                  | AN960-10L      | WASHER                      | 2                     |
|                                  | AN365-832      | NUT                         | 2                     |
| 14                               | 1-2366         | STRINGER                    | 2                     |
|                                  | 1-9994         | REINFORCEMENT               | 2                     |
| 15                               | 7-1259         | BULKHEAD                    | 2                     |
|                                  | 638            | EYELET - UPPER ATTACHMENT   | 1                     |
|                                  | 276D           | EYELET - LOWER ATTACHMENT   | 2                     |
| 16                               | 5-10000        | BULKHEAD                    | 2                     |
|                                  | 638            | EYELET - UPPER ATTACHMENT   | 1                     |
|                                  | 276D           | EYELET - LOWER ATTACHMENT   | 2                     |
| 17                               | 4-555          | BULKHEAD                    | 2                     |
|                                  | 638            | EYELET - UPPER ATTACHMENT   | 1                     |
|                                  | 276D           | EYELET - LOWER ATTACHMENT   | 2                     |
| 18                               | 2-2046         | BULKHEAD - AUXILIARY        | 1                     |
|                                  | 276D           | EYELET - ATTACHMENT         | 2                     |
| 19                               | 4-556          | BULKHEAD                    | 2                     |
|                                  | 276D           | EYELET - ATTACHMENT         | 4                     |
| 20                               | 4-1541         | BULKHEAD                    | 2                     |
|                                  | 276D           | EYELET - ATTACHMENT         | 4                     |
| 21                               | 1-2367-1       | STRINGER                    | 3                     |
| 22                               | 1-2367-1       | STRINGER                    | 2                     |
|                                  | 276D           | EYELET - ATTACHMENT         | 7                     |
| 23                               | 7-1256         | WINDOW - SIDE REAR          | 1L/1R                 |
|                                  | CH-35          | RUBBER EXTRUSION            | AS REQ'D              |
| 24                               | 4-1378         | FLOORBOARD ASSEMBLY         | 1                     |
| 25                               | 4-1032         | FLOORBOARD - REAR           | 1                     |
| 26                               | 1-9923-2       | RETAINER - LEFT SIDE        | 1                     |
|                                  | 1-9924         | RETAINER - RIGHT SIDE       | 1                     |
| 27                               | AN526-832-10   | SCREW - ATTACHMENT          | 6                     |
| 28                               | C814-832-1     | NUT                         | 6                     |
| 29                               | 4-1486         | ASSEMBLY - LEFT WINDOW      | 1                     |
| 30                               | 7-1318         | WINDOW - FRAME              | 1                     |
|                                  | 4-1487         | WINDOW                      | 1                     |
|                                  | CH-35          | WINDOW RUBBER SEAL          | A/R                   |
|                                  | 3/8"           | ROUND WINDOW SEAL           | A/R                   |
| 31                               | C60Z-6222916-A | HANDLE                      | 2                     |
|                                  | 1-9876         | PIN - ATTACHMENT            | 2                     |
| 32                               | 1-10115        | RETAINER - WINDOW           | 1                     |
|                                  | AD468S         | RIVET - ATTACHMENT          | 17                    |
| 33                               | 1-9849         | HINGE                       | 2                     |
|                                  | 1601-0410      | RIVET - ATTACHMENT          | 12                    |
| 34                               | 1-10273        | VENT DEFLECTOR INSTALLATION | 1                     |
| 35                               | 1-9872         | HINGE - LEFT SIDE WINDOW    | 1                     |
|                                  | 1601-0410      | RIVET - ATTACHMENT          | 1                     |
| 36                               | 4-1388         | INSTALLATION - DOOR         | 1                     |
|                                  | 3/8"           | DOOR SEAL                   | AS REQ'D              |
| 37                               | 4-744          | INSTALLATION HINGE PIN      | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                               | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------|-------------------------------------------|-----------------------|
| 15-38                            | 1-2772         | BELLCRANK ASSEMBLY                        | 1                     |
|                                  | 1-2773         | HANDLE ASSEMBLY                           | 1                     |
|                                  | 1-2177         | RING                                      | 1                     |
|                                  | AN415A         | PIN                                       | 1                     |
|                                  | AN392-17       | CLEVIS PIN                                | 1                     |
|                                  | AN380-2-2      | COTTER PIN                                | 1                     |
| 39                               | 1-9951         | DOOR HINGE                                | 2                     |
| 40                               | AN526-1032-22  | SCREW                                     | 4                     |
| 41                               | AN960-10L      | WASHER                                    | 4                     |
| 42                               | AN365-1032     | NUT                                       | 4                     |
| 43                               | 7-1270         | ASSEMBLY - DOOR                           | 1                     |
|                                  | 7-1265         | DOOR - FIBERGLASS                         | 1                     |
| 44                               | 3-1369         | DOOR POCKET                               | 1                     |
|                                  | 1202           | FASTENER - ATTACHMENT                     | 7                     |
| 45                               | C60Z-6222916-A | HANDLE - ASSEMBLY                         | 2                     |
|                                  | 1-9890         | PIN                                       | 2                     |
| 46                               | 4-1446         | WINDOW - CABIN DOOR                       | 1                     |
|                                  | CH-35          | RUBBER EXTRUSION                          | 1                     |
| 47                               | 1-10115        | RETAINER - DOOR WINDOW                    | 1                     |
|                                  | AD46BS         | RIVET                                     | 17                    |
| 48                               | 2-2097         | DOOR - HANDLE ASSEMBLY                    | 1                     |
| 49                               | 1-10340        | SNAP VENT - WRAPAROUND 3"                 | 1                     |
|                                  | 1-9809         | SNAP VENT - WRAPAROUND 2"                 | 1                     |
| 50                               | 7-1438         | ASSEMBLY - SUPPORT WINDSHIELD             | 1                     |
|                                  | 1-10164        | FITTING - WINDSHIELD SUPPORT              | 1                     |
|                                  | AN520-8-14     | SCREW                                     | 2                     |
|                                  | AN365-832      | NUT                                       | 2                     |
|                                  | AN960-10L      | WASHER                                    | 2                     |
|                                  | 1-10165        | SUPPORT - WINDSHIELD SUPPORT - WRAPAROUND | 1                     |
|                                  | AN470AD4-6     | RIVET                                     | 4                     |
| 51                               | 1-2376-1       | STRINGER                                  | 1                     |
| 52                               | 1-2376-2       | STRINGER                                  | 1                     |
| 53                               | 2-1965-2       | SUPPORT                                   | 1                     |
| 54                               | 2-1965-1       | SUPPORT                                   | 1                     |
| 55                               | 1-10550        | PLACARD - EMERGENCY EXIT                  | 1                     |

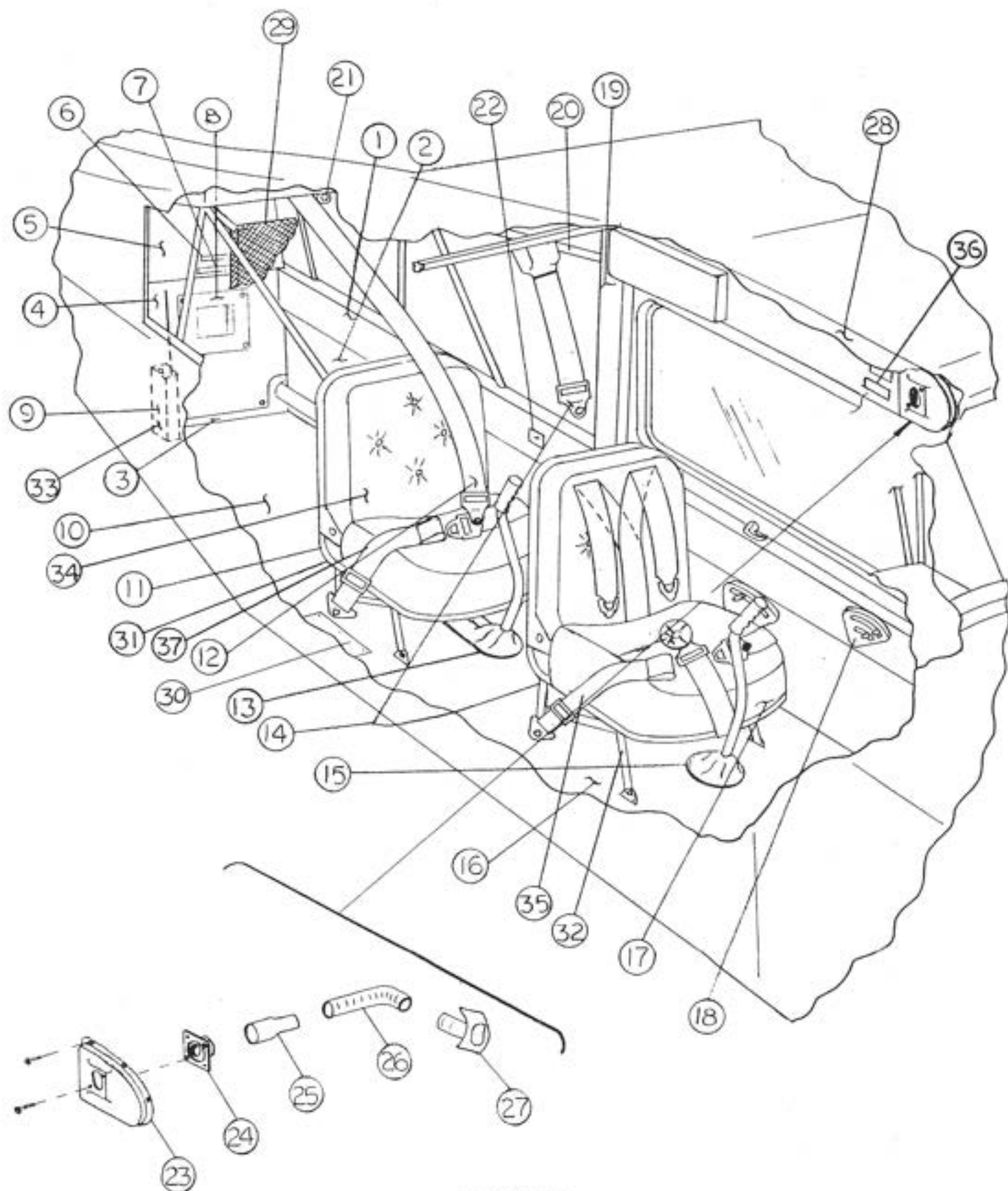


FIGURE 16  
INSTALLATION - INTERIOR TRIM & SEATS

Reissued 5-1-79



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                      | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------|------------------------------------------------------------------|-----------------------|
| 16-                              | 4-1462        | DRAWING - INSTALLATION SEATS                                     |                       |
|                                  | 4-1708        | DRAWING - INSTALLATION SEAT - REAR                               |                       |
|                                  | 4-1709        | DRAWING - INSTALLATION SEAT - REAR - WIDE                        |                       |
|                                  | 7-1269        | DRAWING - INSTALLATION INTERIOR PANELS                           |                       |
|                                  | 7-1415        | DRAWING - INSTALLATION FIXED EQUIPMENT                           |                       |
|                                  | 7-1499        | DRAWING - INSTALLATION ADJUSTABLE SEAT - FRONT                   |                       |
| 1                                | 5-297         | PANEL - INTERIOR TOP (LEFT SIDE)                                 | 1                     |
|                                  | 4-1372        | PANEL - INTERIOR TOP (RIGHT SIDE)                                | 1                     |
| 2                                | 5-295         | PANEL - INTERIOR BOTTOM (LEFT SIDE)                              | 1                     |
|                                  | 1-9942        | SPRING ATTACHMENT                                                | 6                     |
|                                  | 4-1371        | PANEL - INTERIOR BOTTOM (RIGHT SIDE)                             | 1                     |
|                                  | 1-9942        | SPRING ATTACHMENT                                                | 2                     |
| 3                                | 3-1391        | PANEL - INTERIOR - AFT - LOWER                                   | 1                     |
| 4                                | 3-1390        | PANEL - INTERIOR - AFT - MIDDLE                                  | 1                     |
| 5                                | 4-1373        | PANEL - INTERIOR - AFT - UPPER                                   | 1                     |
|                                  | SP8150        | PLUS NUT (PANEL ATTACHMENT)                                      | 6                     |
|                                  | LP22T82S8     | SCREW                                                            | 6                     |
|                                  | AN960-8L      | WASHER                                                           | 6                     |
| 6                                | 1-10114       | PLACARD - BATTERY SERVICE                                        | 1                     |
| 7                                | 1-9704-1      | PLACARD - BAGGAGE                                                | 1                     |
| 8                                | 3-1576        | AIRCRAFT RECORDS POUCH                                           | 1                     |
| 9                                | 3-1504        | INSTALLATION EMERGENCY LOCATOR TRANSMITTER<br>(SHARC 7)          | 1                     |
|                                  | 3-1503        | PANEL - SUPPORT                                                  | 1                     |
|                                  | AN526-1032-10 | SCREW ATTACHMENT                                                 | 3                     |
|                                  | AN970-3       | WASHER                                                           | 3                     |
|                                  | AN365-1032    | NUT                                                              | 3                     |
|                                  | AS6-4-6SS     | SCREW                                                            | 3                     |
| 10                               | 5-298         | CARPET                                                           | 1                     |
|                                  | 5-298-3       | MAT                                                              | 1                     |
| 11                               | 7-1454        | SEAT FRAME (FIXED)                                               | 2                     |
|                                  | AN4-7A        | BOLT (REAR LEG, FLOOR ATTACHMENT)                                | 4                     |
|                                  | AN4-5A        | BOLT (FRONT LEG, FLOOR ATTACHMENT)                               | 4                     |
|                                  | AN960-416     | WASHER                                                           | 8                     |
|                                  | AN365-428     | NUT                                                              | 8                     |
|                                  | 1-10238       | BUSHING (SINGLE LAP BELT ATTACHMENT)                             | 4                     |
|                                  | 7-1499        | FRONT ADJUSTABLE SEAT (1977 MODELS AND UP)                       | 1                     |
|                                  | 7-1513        | SEAT FRAME                                                       | 1                     |
|                                  | AN4-6         | BOLT (FRONT LEG, FLOOR ATTACHMENT)                               | 2                     |
|                                  | AN4-11        | BOLT (REAR LEG, FLOOR ATTACHMENT - WING<br>SINGLE LAP BELT ONLY) | 2                     |
|                                  | AN960-416     | WASHER                                                           | 4                     |
|                                  | AN310-4       | NUT                                                              | 4                     |
|                                  | AN380-2-2     | PIN                                                              | 4                     |
|                                  | 1-10534-1     | BUSHING (FRONT LEG)                                              | 2                     |
|                                  | 1-10535       | WASHER (FRONT LEG)                                               | 4                     |
|                                  | 1-10238       | BUSHING (SINGLE LAP BELT ATTACHMENT)                             | 2                     |
|                                  | 1-10534-2     | BUSHING (REAR LEG, SINGLE LAP BELT ATTAC.)                       | 2                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                           | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------|-----------------------------------------------------------------------|-----------------------|
| 16-12                            | 3-1557-1      | SHOULDER HARNESS INST. - NON-INERTIA                                  | 1                     |
|                                  | 500668-3      | SHOULDER HARNESS - FIXED                                              | 1                     |
|                                  | AN4-5A        | BOLT ATTACHMENT                                                       | 1                     |
|                                  | AN960-416L    | WASHER                                                                | 1                     |
| 13                               | 3-1374        | BOOT STICK - REAR                                                     | 1                     |
|                                  | 3-1547        | COVER - REAR STICK                                                    | 1                     |
| 14                               | 3-1557        | INERTIA SHOULDER HARNESS - INST.                                      | 1                     |
|                                  | 500668-4      | SHOULDER HARNESS - INERTIA                                            | 1                     |
|                                  | AN4-5A        | BOLT (INERTIA REEL ATTACHMENT)                                        | 1                     |
|                                  | AN960-416L    | WASHER                                                                | 1                     |
| 15                               | 2-751         | BOOT STICK - FRONT                                                    | 1                     |
| 16                               | 4-10004       | PANEL - INTERIOR - DOORWAY                                            | 1                     |
|                                  | 1-9927        | MOULDING - DOOR BOTTOM                                                | 1                     |
|                                  | 1-9925        | MOULDING - DOOR TOP                                                   | 1                     |
|                                  | 2279          | FASTENERS - SNAP                                                      | 5                     |
| 17                               | 4-1504-2      | CUSHION - SEAT BOTTOM                                                 | 2                     |
|                                  | 4-1504-1      | CUSHION - SEAT BACK                                                   | 2                     |
|                                  | 3-1535-1      | BACKING - CANVAS                                                      | 1                     |
| 18                               | 2-1883        | QUADRANT - THROTTLE                                                   | 2                     |
|                                  | 1-9941        | PLACARD - CARB. HEAT AND THROTTLE CONTROL                             | 2                     |
|                                  | AN526-832-16  | SCREW                                                                 | 4                     |
|                                  | C420-832-1    | NUT                                                                   | 4                     |
|                                  | 2-1883-2      | SPACER - WOOD                                                         | 4                     |
|                                  | 1-9186        | KNOB - THROTTLE                                                       | 2                     |
|                                  | 1-596-4       | KNOB - CARB. HEAT                                                     | 2                     |
| 19                               | 4-1375        | COVER - AILERON CABLE                                                 | 1L/1R                 |
|                                  | AN526-832-10  | SCREW                                                                 | 6                     |
|                                  | C365-832      | NUT                                                                   | 6                     |
|                                  | AS6-4-6SS     | SCREW                                                                 | 4                     |
| 20                               | 2-1877        | MOULDING - UPPER REAR WINDOW                                          | 1L/1R                 |
| 22                               | 1-8982        | ASH TRAY                                                              | 2                     |
| 23                               | 3-1552        | VENT COVER (LEFT OPTIONAL)                                            | 1                     |
| 24                               | 9977005       | VENT - VALVE                                                          | 1                     |
| 25                               | 1-10331       | REDUCER                                                               | 1                     |
| 26                               | 3-985-28      | HOSE                                                                  | 1                     |
| 27                               | 1-10332       | ADAPTER -                                                             |                       |
| 28                               | 4-1429        | HEADLINER (GREENHOUSE)                                                | 1                     |
| 29                               | 3-1475        | BAGGAGE NET - RESTRICTING                                             |                       |
| 30                               | 2-2054        | SCUFF PAD                                                             | 2L/2R                 |
|                                  | *7-1500       | SEAT FRAME (REAR SEAT)                                                | 1                     |
|                                  | *7-1501       | SEAT FRAME (WIDE REAR SEAT)                                           | 1                     |
| 32                               | *7-1499       | SEAT FRAME - FRONT ADJUSTABLE (SEE FIGURE 17<br>FOR PARTS BRAKE DOWN) | 1                     |
| 33                               | 3-1590        | INSTALLATION - EMERGENCY LOCATOR TRANS.<br>LARAGO                     | 1                     |
|                                  | MT-1005-2     | BRACKET                                                               | 1                     |
|                                  | AN365-1032    | NUT                                                                   | 6                     |
|                                  | AN507-1032-12 | SCREW                                                                 | 4                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                       | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------|-----------------------------------|-----------------------|
| 16-                              | AN526-1032-10 | SCREW                             | 2                     |
|                                  | AN970-3       | WASHER                            | 4                     |
| 34                               | 4-10010       | CUSHION - BOTTOM (WIDE SEAT)      | 1                     |
|                                  | 4-10011       | CUSHION - BACK (WIDE SEAT)        | 1                     |
|                                  | 3-1541        | BACKING - CANVAS (WIDE SEAT)      | 1                     |
| 35                               | *3-1598       | INSTALLATION COMPETITION HARNESS  | 1                     |
|                                  | 500660-401    | COMPETITION HARNESS               | 1                     |
|                                  | AN4-12A       | BOLT (SEAT BELT ATTACHMENT FRONT) | 2                     |
|                                  | 1-10238       | BUSHING                           | 2                     |
|                                  | AN310-4       | NUT                               | 2                     |
|                                  | AN380-2-2     | COTTER PIN                        | 2                     |
|                                  | AN960-416     | WASHER                            | 2                     |
|                                  | AN4-7A        | BOLT (SEAT BELT ATTACHMENT REAR)  | 2                     |
|                                  | 1-10238       | BUSHING                           | 2                     |
|                                  | AN960-416     | WASHER                            | 4                     |
|                                  | AN365-428     | NUT                               | 2                     |
| 36                               | 1-10614       | PLACARD - OPERATIONS LIMITATIONS  | 1                     |
|                                  | 1-10149       | PLACARD - OPERATIONS LIMITATIONS  | 1                     |
| 37                               | 500668-5      | SINGLE LAP BELT (FRONT AND REAR)  | 2                     |

\*NOTE: PARTS REQ'D ON 1976 MODELS AND UP.

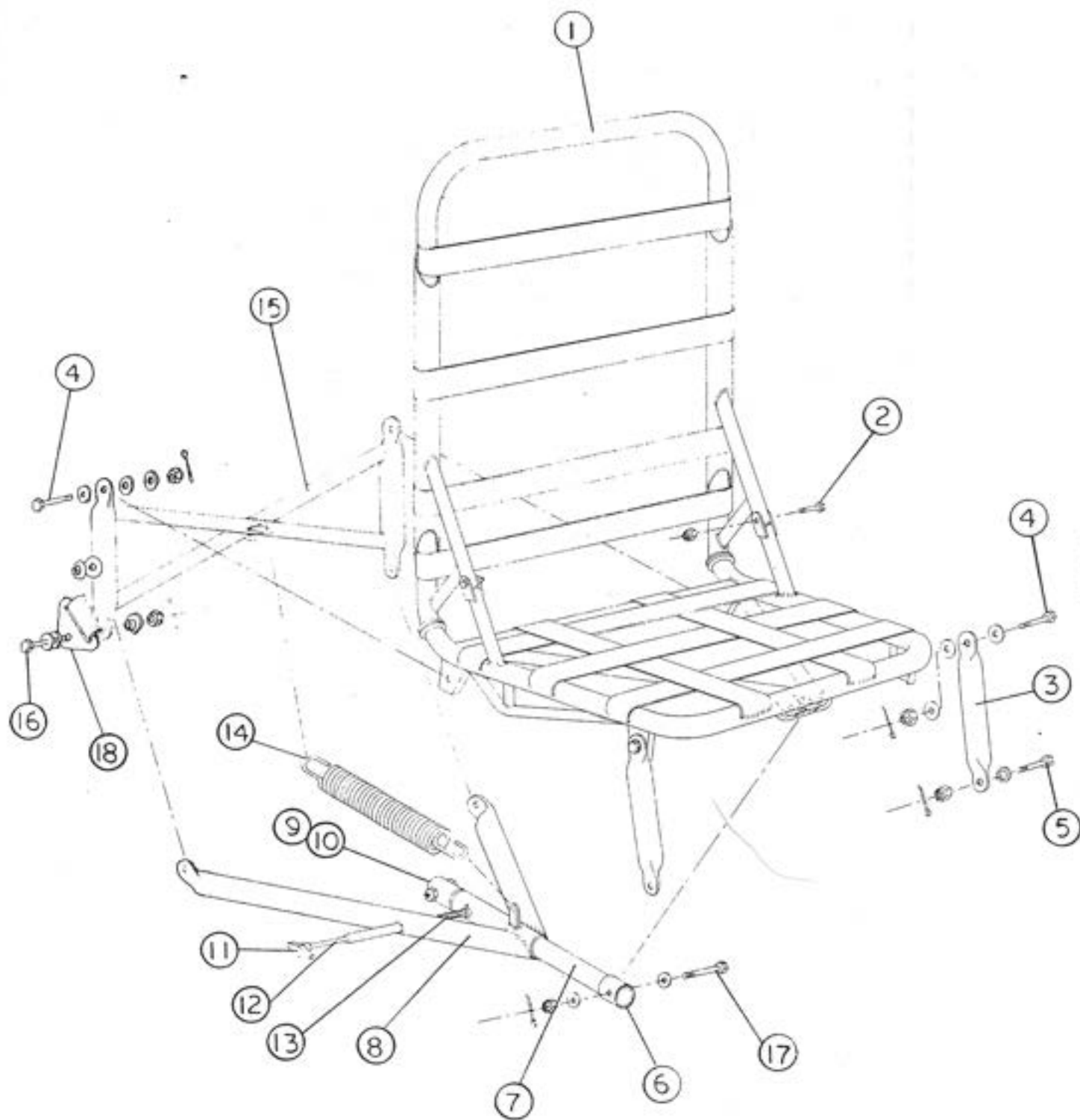


FIGURE 17  
INSTALLATION - ADJUSTABLE SEAT

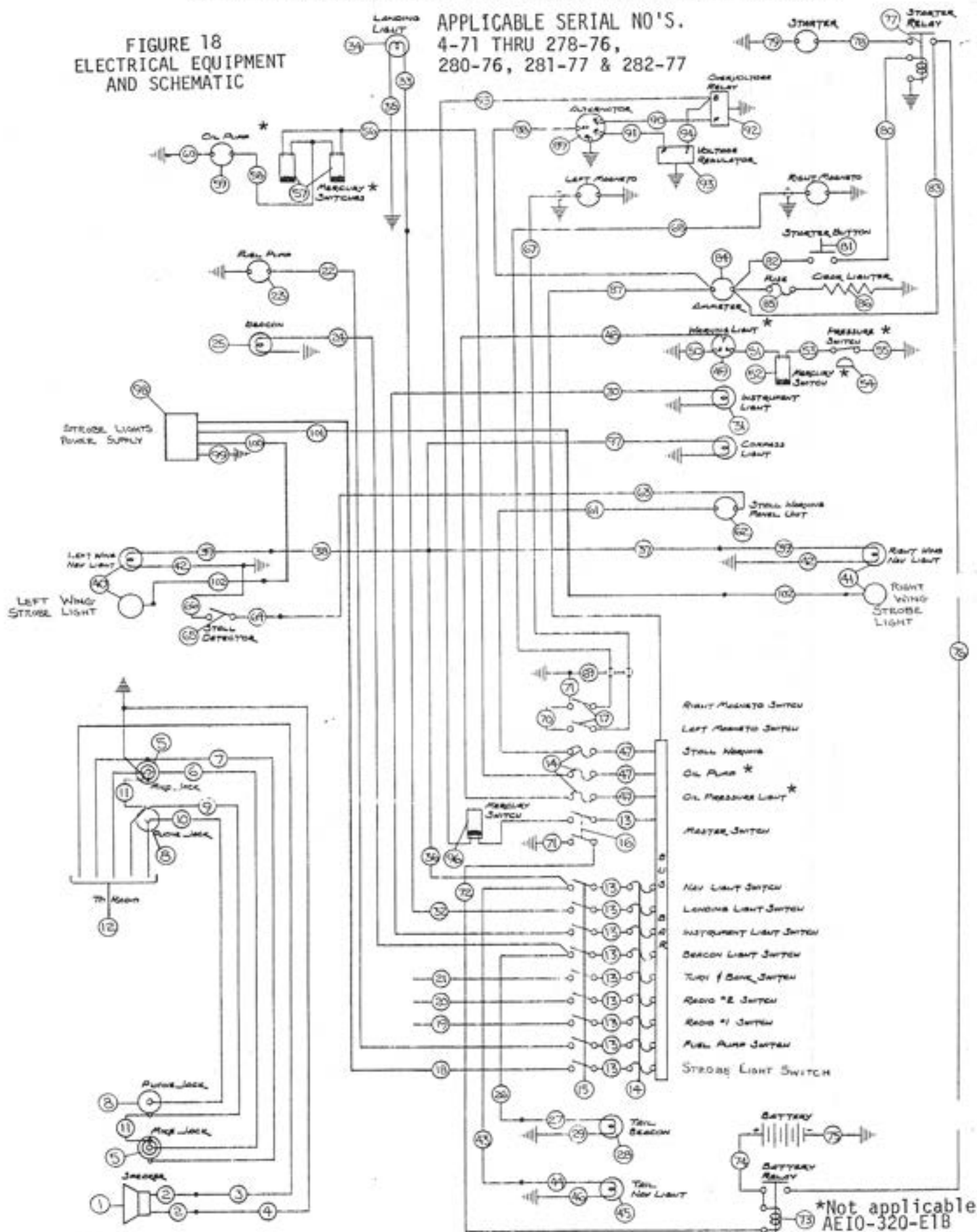


| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER     | DESCRIPTION                                               | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-----------------|-----------------------------------------------------------|-----------------------|
| 17-                              | 7-1499          | DRAWING - INSTALLATION - SEAT ADJUSTABLE - FRONT          |                       |
| 1                                | 7-1513          | SEAT FRAME                                                | 1                     |
| 2                                | AN3-7A          | BOLT - BACK ATTACHMENT                                    | 2                     |
|                                  | AN365-1032      | NUT                                                       | 2                     |
| 3                                | 1-10503-1       | LEG                                                       | 2                     |
| 4                                | AN4-5           | BOLT - LEG ATTACHMENT UPPER                               | 4                     |
|                                  | AN960-416       | WASHER                                                    | 4                     |
|                                  | 1-10534-1       | BUSHING                                                   | 4                     |
|                                  | 1-10535         | WASHER                                                    | 4                     |
|                                  | AN310-4         | NUT                                                       | 4                     |
|                                  | AN380-2-2       | COTTER PIN                                                | 4                     |
| 5                                | AN4-6           | BOLT - LEG ATTACHMENT LOWER - FRONT                       | 2                     |
|                                  | AN960-416       | WASHER                                                    | 2                     |
|                                  | 1-10534-1       | BUSHING                                                   | 2                     |
|                                  | 1-10535         | WASHER                                                    | 2                     |
|                                  | AN310-4         | NUT                                                       | 2                     |
|                                  | AN380-2-2       | COTTER PIN                                                | 2                     |
| 6                                | 1-10521         | STOP                                                      | 1                     |
| 7                                | 1-10511         | ADJUSTMENT TUBE                                           | 1                     |
| 8                                | 4-1705          | SEAT ADJUSTMENT MECHANISM                                 | 1                     |
| 9                                | 1-10521         | SPACER                                                    | 1                     |
| 10                               | AN4-11A         | BOLT (SPACER ATTACHMENT)                                  | 1                     |
|                                  | AN365-428       | NUT                                                       | 1                     |
| 11                               | 3090-H          | HANDLE                                                    | 1                     |
| 12                               | 1-10525         | SHAFT                                                     | 1                     |
| 13                               | 1-10524         | SPRING                                                    | 1                     |
|                                  | AN960-416       | WASHER                                                    | 2                     |
|                                  | 53-018-078-0500 | ROLL PIN                                                  | 1                     |
| 14                               | 2-1525          | SPRING                                                    | 1                     |
| 15                               | 3-1594          | REAR LEG ASSEMBLY                                         | 1                     |
| 16                               | AN4-11          | BOLT - LEG ATTACHMENT LOWER REAR & LAP BELT<br>ATTACHMENT | 2                     |
|                                  | AN960-416       | WASHER                                                    | 2                     |
|                                  | 1-10238         | BUSHING                                                   | 2                     |
|                                  | 1-10535         | WASHER                                                    | 2                     |
|                                  | 1-10534-2       | BUSHING                                                   | 2                     |
|                                  | AN310-4         | NUT                                                       | 2                     |
|                                  | AN380-2-2       | COTTER PIN                                                | 2                     |
| 17                               | AN4-12          | BOLT - STOP & TUBE ATTACHMENT                             | 1                     |
|                                  | AN960-416L      | WASHER                                                    | 2                     |
|                                  | AN310-4         | NUT                                                       | 1                     |
|                                  | AN380-2-2       | COTTER PIN                                                | 1                     |
| 18                               | 500668-5        | SINGLE LAP BELT (REAR SEAT)                               | 1                     |



FIGURE 18  
ELECTRICAL EQUIPMENT  
AND SCHEMATIC

APPLICABLE SERIAL NO'S.  
4-71 THRU 278-76,  
280-76, 281-77 & 282-77



\*Not applicable  
③ AEIO-320-E18  
Reissued 5-1-7



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                   | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|-----------------------------------------------|-----------------------|
| 18-                              | 4-1543      | DRAWING - SCHEMATIC - ELECTRICAL SYSTEM       |                       |
| 1                                | 57FOS       | SPEAKER                                       | 1                     |
| 2                                | 150         | WIRE - SPEAKER                                | 2                     |
| 3                                | 30          | WIRE - SPEAKER TO RADIO                       | 1                     |
| 4                                | 180         | WIRE - SPEAKER TO GROUND                      | 1                     |
| 5                                | C-12B       | MIKE JACK                                     | 2                     |
| 6                                | 34          | WIRE - MIKE JACK TO MIKE JACK                 | 1                     |
| 7                                | 35          | WIRE - MIKE JACK TO MIKE JACK                 | 1                     |
| 8                                | C-11        | PHONE JACK                                    | 2                     |
| 9                                | 36          | WIRE - PHONE JACK TO PHONE JACK               | 1                     |
| 10                               | 37          | WIRE - PHONE JACK TO PHONE JACK               | 1                     |
| 11                               | 146         | WIRE - MIKE JACK TO PHONE JACK                | 2                     |
| 12                               |             | WIRE - FURNISHED WITH RADIOS                  |                       |
| 13                               | 142         | WIRE - BUS BAR TO SWITCH                      | 10                    |
| 14                               | 342012      | FUSEHOLDER - BUS BAR                          | 12                    |
| 15                               | 1-9152-2    | SWITCH                                        | 9                     |
| 16                               | 1-9152-1    | SWITCH - MASTER                               | 1                     |
| 17                               | 1-9152-2    | SWITCH - MAGNETO                              | 2                     |
| 18                               | 132         | WIRE - STROBE POWER SUPPLY                    | 1                     |
| 19                               | 129         | WIRE - RADIO #1                               | 1                     |
| 20                               | 128         | WIRE - RADIO #2                               | 1                     |
| 21                               | 22          | WIRE - TURN AND BANK                          | 1                     |
| 22                               | 120         | WIRE - FUEL PUMP                              | 1                     |
| 23                               | 8110-C      | FUEL PUMP - EMERGENCY                         | 1                     |
| 24                               | 121         | WIRE - SWITCH TO WRAPAROUND BEACON            | 1                     |
| 25                               | WRML-12     | BEACON - WRAPAROUND (IF EQUIPPED)             | 1                     |
| 26                               | 147         | WIRE - SWITCH TO #148 WIRE                    | 1                     |
| 27                               | 148         | WIRE - #147 WIRE TO TAIL BEACON               | 1                     |
| 28                               | 40-0200-1   | BEACON - TAIL (IF EQUIPPED)                   | 1                     |
| 29                               | 149         | WIRE - TAIL BEACON TO GROUND                  | 1                     |
| 30                               | 4           | WIRE - SWITCH TO INSTRUMENT LIGHT             | 1                     |
| 31                               | D-6810A-12  | INSTRUMENT LIGHT                              | 1                     |
| 32                               | 24          | WIRE - SWITCH TO #131 WIRE                    | 1                     |
| 33                               | 131         | WIRE - #24 WIRE TO LANDING LIGHT              | 1                     |
| 34                               | 4509        | LANDING LIGHT                                 | 1                     |
| 35                               | 130         | WIRE - LANDING LIGHT TO GROUND                | 1                     |
| 36                               | 29          | WIRE - SWITCH TO WING NAV. LIGHTS             | 1                     |
| 37                               | 31          | WIRE - #29 WIRE TO RIGHT WING NAV. LIGHT      | 1                     |
| 38                               | 33          | WIRE - #29 WIRE TO LEFT WING NAV. LIGHT       | 1                     |
| 39                               | 59          | WIRE - #31 WIRE TO RIGHT WING NAV. LIGHT      |                       |
|                                  |             | #33 WIRE TO LEFT WING NAV. LIGHT              |                       |
| 40                               | W1285PR     | STROBE LIGHT ASSEMBLY - LEFT WITH NAV. LIGHT  | 1                     |
| 41                               | W1285PG     | STROBE LIGHT ASSEMBLY - RIGHT WITH NAV. LIGHT | 1                     |
| 42                               | 122         | WIRE - NAV. LIGHT TO GROUND LEFT AND RIGHT    | 2                     |
| 43                               | 123         | WIRE - SWITCH TO #124 WIRE                    | 1                     |
| 44                               | 124         | WIRE - #123 WIRE TO TAIL NAV. LIGHT           | 1                     |
| 45                               | A2064-12    | NAV. LIGHT - TAIL                             | 1                     |
| 46                               | 133         | WIRE - TAIL NAV. LIGHT TO GROUND              | 1                     |



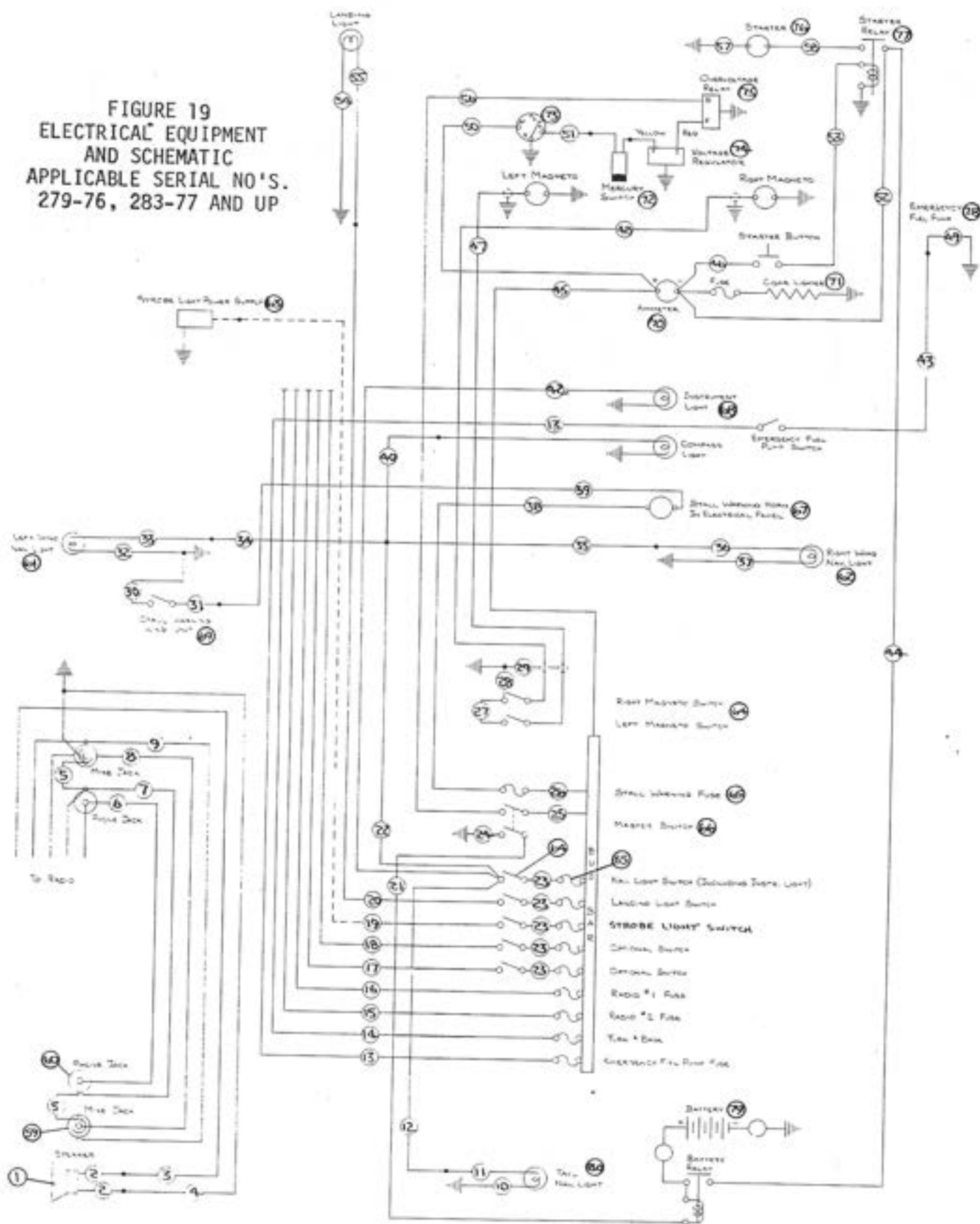
| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER           | DESCRIPTION                                  | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-----------------------|----------------------------------------------|-----------------------|
| 18-47                            | 134                   | WIRE - BUS BAR TO FUSEHOLDER                 | 3                     |
| 48                               | *183                  | WIRE - FUSEHOLDER TO WARNING LIGHT           | 1                     |
| 49                               | *801-1030-<br>033-504 | LIGHT - WARNING                              | 1                     |
| 50                               | *141                  | WIRE - WARNING LIGHT TO GROUND               | 1                     |
| 51                               | *185                  | WIRE - WARNING LIGHT TO MERCURY SWITCH       | 1                     |
| 52                               | *1-10305<br>7MP1-2    | SWITCH BRACKET ASSEMBLY<br>SWITCH - MERCURY  | 1                     |
| 53                               | *182                  | WIRE - MERCURY SWITCH TO PRESSURE SWITCH     | 1                     |
| 54                               | *M4011-60             | SWITCH - PRESSURE                            | 1                     |
| 55                               | *181                  | WIRE - PRESSURE SWITCH TO GROUND             | 1                     |
| 56                               | *119                  | WIRE - FUSEHOLDER TO MERCURY SWITCHES        | 1                     |
| 57                               | *7MP1-2               | SWITCH - MERCURY - OIL PUMP                  | 2                     |
| 58                               | *118                  | WIRE - MERCURY SWITCHES TO OIL PUMP          | 1                     |
| 59                               | *185-9                | OIL PUMP                                     | 1                     |
| 60                               | *140                  | WIRE - OIL PUMP TO GROUND                    | 1                     |
| 61                               | 135                   | WIRE - FUSEHOLDER TO PANEL UNIT              | 1                     |
| 62                               | R                     | STALL WARNING PANEL UNIT                     | 1                     |
| 63                               | 136                   | WIRE - PANEL UNIT TO #137 WIRE               | 1                     |
| 64                               | 137                   | WIRE - #136 WIRE TO STALL DETECTOR           | 1                     |
| 65                               | 164                   | STALL DETECTOR UNIT                          | 1                     |
| 66                               | 138                   | WIRE - STALL DETECTOR TO GROUND              | 1                     |
| 67                               | 40                    | WIRE - SWITCH TO LEFT MAGNETO                | 1                     |
| 68                               | 41                    | WIRE - SWITCH TO RIGHT MAGNETO               | 1                     |
| 69                               | 42                    | WIRE - #40 AND #41 WIRE SHIELDING TO GROUND  | 1                     |
| 70                               | 127                   | WIRE - JUMPER - LEFT AND RIGHT SWITCHES      | 1                     |
| 71                               | 126                   | WIRE - SWITCH TO GROUND - MASTER AND MAGNETO | 2                     |
| 72                               | 139                   | WIRE - MASTER SWITCH TO BATTERY RELAY        | 1                     |
| 73                               | 24115                 | RELAY - BATTERY                              | 1                     |
| 74                               | 60                    | WIRE - BATTERY TO RELAY                      | 1                     |
| 75                               | 65                    | WIRE - BATTERY TO GROUND                     | 1                     |
| 76                               | 99                    | WIRE - BATTERY RELAY TO STARTER RELAY        | 1                     |
| 77                               | 24115                 | RELAY - STARTER                              | 1                     |
| 78                               | 50                    | WIRE - STARTER RELAY TO STARTER              | 1                     |
| 79                               | 116                   | WIRE - STARTER TO GROUND                     | 1                     |
| 80                               | 103                   | WIRE - STARTER BUTTON TO RELAY               | 1                     |
| 81                               | 1-8980                | STARTER BUTTON                               | 1                     |
| 82                               | 104                   | WIRE - AMMETER TO STARTER BUTTON             | 1                     |
| 83                               | 114                   | WIRE - AMMETER TO STARTER RELAY              | 1                     |
| 84                               |                       | AMMETER                                      | 1                     |
| 85                               | 155020                | FUSEHOLDER                                   | 1                     |
| 86                               | 1-8981                | CIGAR LIGHTER                                | 1                     |
| 87                               | 113                   | WIRE - BUS BAR TO AMMETER                    | 1                     |
| 88                               | 112                   | WIRE - AMMETER TO ALTERNATOR                 | 1                     |
| 89                               | ALY-8403              | ALTERNATOR                                   | 1                     |
| 90                               | 108                   | WIRE - ALTERNATOR TO OVERVOLTAGE RELAY       | 1                     |
| 91                               | 109                   | WIRE - ALTERNATOR TO VOLTAGE REGULATOR       | 1                     |
| 92                               | X17621                | OVERVOLTAGE RELAY                            | 1                     |
| 93                               | VSF-7203              | VOLTAGE REGULATOR                            | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER                                               | PART NUMBER | DESCRIPTION                                                   | UNITS<br>PER<br>ASS'Y |
|--------------------------------------------------------------------------------|-------------|---------------------------------------------------------------|-----------------------|
| 18-94                                                                          | 110         | WIRE - VOLTAGE REGULATOR TO OVERVOLTAGE RELAY                 | 1                     |
| 95                                                                             | 111         | WIRE - MERCURY SWITCH TO OVERVOLTAGE RELAY                    | 1                     |
| 96                                                                             | 7-MPL-2     | SWITCH - MERCURY                                              | 1                     |
| 97                                                                             | 32          | WIRE - NAV. LIGHT TO COMPASS LIGHT                            | 1                     |
| 98                                                                             | HDT2        | POWER SUPPLY - STROBE                                         | 1                     |
| 99                                                                             | 3-1512-4    | WIRE - STROBE POWER SUPPLY TO GROUND                          | 1                     |
| 100                                                                            | 3-1512-2    | WIRE - STROBE POWER SUPPLY TO LEFT WING ROOT                  | 1                     |
| 101                                                                            | 3-1512-3    | WIRE - STROBE POWER SUPPLY TO RIGHT WING ROOT                 | 1                     |
| 102                                                                            | 3-1512-1    | WIRE - STROBE LIGHT ASSEMBLY TO WING ROOT -<br>LEFT AND RIGHT | 2                     |
| <p><u>*NOTE:</u> PARTS NOT REQ'D WITH INSTALLATION OF AE10-320-E1B ENGINE.</p> |             |                                                               |                       |



FIGURE 19  
ELECTRICAL EQUIPMENT  
AND SCHEMATIC  
APPLICABLE SERIAL NO'S.  
279-76, 283-77 AND UP





| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                           | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|---------------------------------------|-----------------------|
| 19-                              | 4-1543      | DRAWING - SCHEMATIC ELECTRICAL SYSTEM |                       |
| 1                                | 57F0S       | SPEAKER                               | 1                     |
| 2                                | 150         | WIRE (SPEAKER)                        | 1                     |
| 3                                | 30          | WIRE (SPEAKER TO RADIO)               | 1                     |
| 4                                | 180         | WIRE (SPEAKER TO GROUND)              | 1                     |
| 5                                | 146         | WIRE (JACK JUMPER)                    | 2                     |
| 6                                | 37          | WIRE (PHONE JACK)                     | 1                     |
| 7                                | 36          | WIRE (PHONE JACK)                     | 1                     |
| 8                                | 34          | WIRE (MIKE JACK)                      | 1                     |
| 9                                | 35          | WIRE (MIKE JACK)                      | 1                     |
| 10                               | 133         | WIRE (NAV. LIGHT GROUND)              | 1                     |
| 11                               | 124         | WIRE (NAV. TAIL LIGHT)                | 1                     |
| 12                               | 123         | WIRE (NAV. TAIL LIGHT)                | 1                     |
| 13                               | 120         | WIRE (EMERGENCY FUEL PUMP)            | 1                     |
| 14                               | 22          | WIRE (TURN AND BANK)                  | 1                     |
| 15                               | 129         | WIRE (RADIO)                          | 1                     |
| 16                               | 128         | WIRE (RADIO)                          | 1                     |
| 17                               | 23          | WIRE (OPTIONAL)                       | 1                     |
| 18                               | 121         | WIRE (OPTIONAL)                       | 1                     |
| 19                               | 132         | WIRE (STROBE LIGHT)                   | 1                     |
| 20                               | 24          | WIRE (LANDING LIGHT)                  | 1                     |
| 21                               | 139         | WIRE (MASTER TO RELAY)                | 1                     |
| 22                               | 29          | WIRE (NAV. LIGHT)                     | 1                     |
| 23                               | 142         | WIRE (BUS BAR TO SWITCH)              | 5                     |
| 24                               | 126         | WIRE (MASTER GROUND)                  | 1                     |
| 25                               | 17          | WIRE (BUS BAR TO MASTER)              | 1                     |
| 26                               | 134         | WIRE (BUS BAR TO STALL FUSE)          | 1                     |
| 27                               | 127         | WIRE (MAGNETO JUMPER)                 | 1                     |
| 28                               | 126         | WIRE (MAGNETO GROUND)                 | 1                     |
| 29                               | 42          | WIRE (MAGNETO SHIELDING TO GROUND)    | 1                     |
| 30                               | 191         | WIRE (STALL WARNING GROUND)           | 1                     |
| 31                               | 192         | WIRE (STALL WARNING)                  | 1                     |
| 32                               | 122         | WIRE (NAV. LIGHT GROUND)              | 1                     |
| 33                               | 59          | WIRE (NAV. LIGHT - LEFT)              | 1                     |
| 34                               | 33          | WIRE (LEFT NAV. LIGHT)                | 1                     |
| 35                               | 31          | WIRE (RIGHT NAV. LIGHT)               | 1                     |
| 36                               | 59          | WIRE (RIGHT NAV. LIGHT)               | 1                     |
| 37                               | 122         | WIRE (RIGHT NAV. LIGHT GROUND)        | 1                     |
| 38                               | 189         | WIRE (STALL WARNING)                  | 1                     |
| 39                               | 136         | WIRE (STALL WARNING)                  | 1                     |
| 40                               | 32          | WIRE (COMPASS LIGHT)                  | 1                     |
| 42                               | 4           | WIRE (INSTRUMENT LIGHT)               | 1                     |
| 43                               | 190         | WIRE (EMERGENCY FUEL PUMP)            | 1                     |
| 44                               | 99          | WIRE (BATTERY RELAY TO STARTER RELAY) | 1                     |
| 45                               | 113         | WIRE (BUS BAR TO AMMETER)             | 1                     |
| 46                               | 104         | WIRE (AMMETER TO STARTER BUTTON)      | 1                     |
| 47                               | 40          | WIRE (LEFT MAGNETO)                   | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                                 | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------|---------------------------------------------|-----------------------|
| 19-48                            | 41             | WIRE (RIGHT MAGNETO)<br>FURNISHED WITH PUMP | 1                     |
| 49                               |                |                                             |                       |
| 50                               | 112            | WIRE (AMMETER TO ALTERNATOR)                | 1                     |
| 51                               | 109            | WIRE (ALTERNATOR TO MERCURY SWITCH)         | 1                     |
| 52                               | 114            | WIRE (AMMETER TO STARTER RELAY)             | 1                     |
| 53                               | 103            | WIRE (STARTER BUTTON TO STARTER RELAY)      | 1                     |
| 54                               | 130            | WIRE (LANDING LIGHT GROUND)                 | 1                     |
| 55                               | 131            | WIRE (LANDING LIGHT)                        | 1                     |
| 56                               | 111            | WIRE (OVERVOLT TO MASTER)                   | 1                     |
| 57                               | 116            | WIRE (STARTER GROUND)                       | 1                     |
| 58                               | 50             | WIRE (STARTER RELAY TO STARTER)             | 1                     |
| 59                               | C-11           | MIKE JACK                                   | 1                     |
| 60                               | C-12B          | PHONE JACK                                  | 1                     |
| 61                               | A-650 PR       | LEFT NAV. LIGHT ASSEMBLY (WITH STROBE)      | 1                     |
| 62                               | A-650 PG       | RIGHT NAV. LIGHT ASSEMBLY (WITH STROBE)     | 1                     |
| 63                               | A413AHDA-DF-14 | STROBE POWER SUPPLY                         | 1                     |
| 64                               | 1-9152-2       | SWITCH (ACCESSORY)                          | AS REQ'D              |
| 65                               | 342012         | FUSEHOLDER                                  | AS REQ'D              |
| 66                               | 1-9152-1       | MASTER SWITCH                               | 1                     |
| 67                               | PA7733-12V     | HORN (STALL WARNING)                        | 1                     |
| 68                               | D-6810A-12     | INSTRUMENT LIGHT                            | 1                     |
| 69                               | 164            | STALL WARNING LIFT DETECTOR                 | 1                     |
| 70                               | CI-1           | AMMETER                                     | 1                     |
| 71                               | 1-8981         | CIGAR LIGHTER                               | 1                     |
|                                  | 155020         | FUSEHOLDER                                  | 1                     |
| 72                               | 7-MPI-2        | MERCURY SWITCH                              | 1                     |
| 73                               | ALY-8420G      | ALTERNATOR                                  | 1                     |
| 74                               | FVR-4224       | VOLTAGE REGULATOR                           | 1                     |
| 75                               | FOC-4002B      | OVERVOLT RELAY                              | 1                     |
| 76                               | MZ-4204        | STARTER                                     | 1                     |
| 77                               | SAZ-4201E      | STARTER RELAY                               | 1                     |
| 78                               | A-8110-G       | STYLE "J" EMERGENCY FUEL PUMP               | 1                     |
| 79                               | 35 AMP HR.     | BATTERY                                     | 1                     |
| 80                               | A2064-12       | NAV. LIGHT TAIL                             | 1                     |

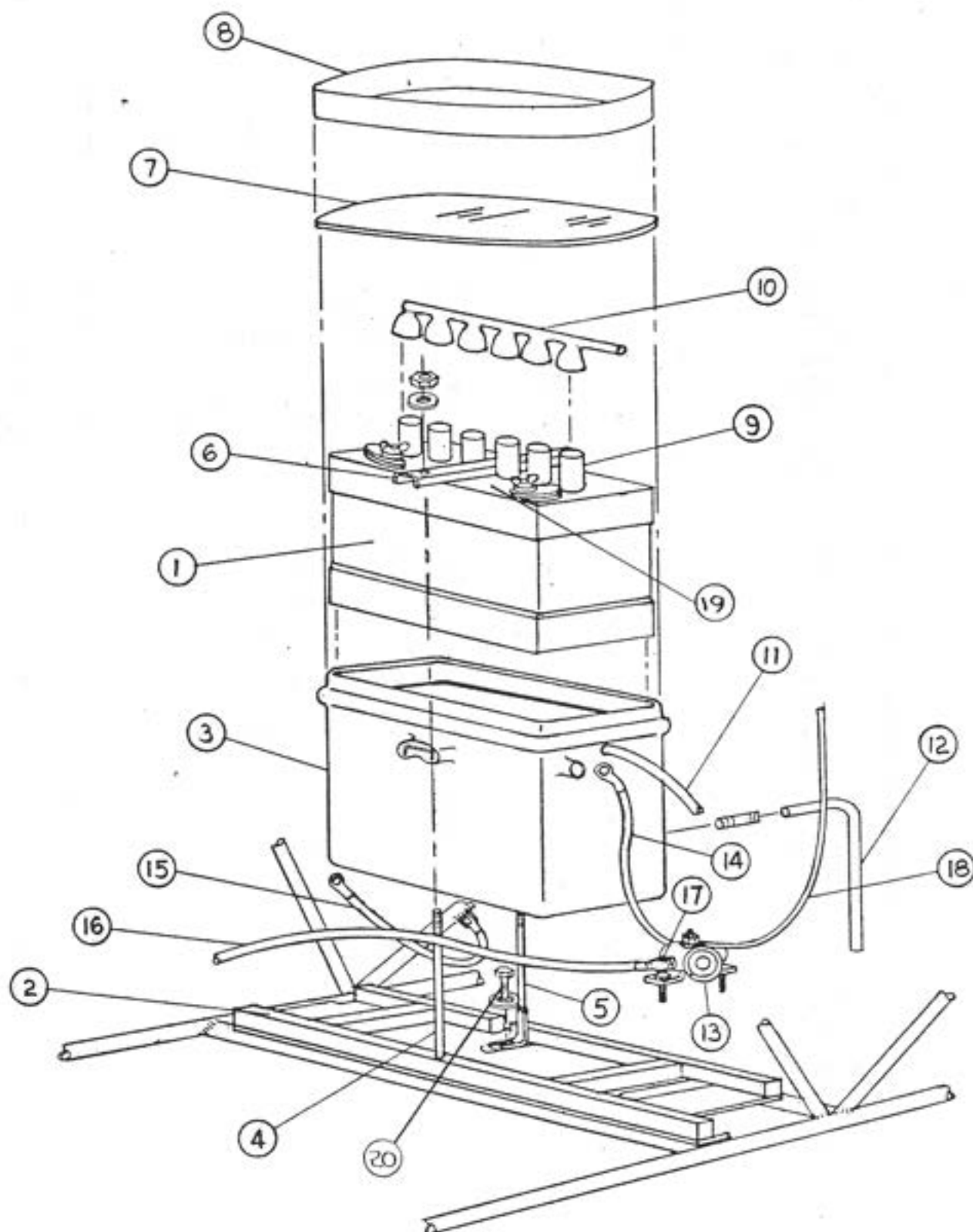


FIGURE 20  
INSTALLATION - BATTERY



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                    | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|------------------------------------------------|-----------------------|
| 20-                              | 4-1599      | DRAWING - INSTALLATION - BATTERY & BATTERY BOX |                       |
| 1                                | R-35        | BATTERY (REBAT)                                | 1                     |
|                                  | PS6-11      | BATTERY (GILL)                                 | 1                     |
| 2                                | 4-1600      | BATTERY BOARD                                  | 1                     |
| 3                                | 4-1596      | BATTERY BOX                                    | 1                     |
| 4                                | 1-10283     | ROD - HOLD DOWN                                | 1                     |
| 5                                | 1-10282     | ROD ASSEMBLY - HOLD DOWN                       | 1                     |
|                                  | AN3-4A      | BOLT (FUSELAGE ATTACHMENT)                     | 1                     |
|                                  | AN960-10    | WASHER                                         | 1                     |
| 6                                | 1-10284     | CHANNEL - HOLD DOWN                            | 1                     |
|                                  | AN365-1032  | NUT (HOLD DOWN ROD ATTACHMENT)                 | 2                     |
|                                  | AN960-10    | WASHER                                         | 2                     |
| 7                                | 2-2067      | COVER                                          | 1                     |
| 8                                | 1-10293     | BAND                                           | 1                     |
| 9                                | MS25185-1   | CAP                                            | 6                     |
| 10                               | 2-1966      | MANIFOLD                                       | 1                     |
|                                  | 62070       | UNION (MANIFOLD TO HOSE)                       | 1                     |
| 11                               | 4-1599-1    | VENT HOSE (MANIFOLD)                           | 1                     |
|                                  | MS21919-DF5 | CLAMP (HOSE TO BATTERY BOARD)                  | 1                     |
|                                  | AS6-6-6SS   | SCREW                                          | 1                     |
| 12                               | 4-1599-2    | DRAIN HOSE (BATTERY BOX)                       | 1                     |
|                                  | 62068       | UNION (BATTERY BOX TO HOSE)                    | 1                     |
| 13                               | 24115       | SOLENOID (BATTERY)                             | 1                     |
|                                  | AN3-6A      | BOLT (SOLENOID TO BATTERY BOARD)               | 2                     |
|                                  | AN365-1032  | NUT                                            | 2                     |
|                                  | AN970-3     | WASHER                                         | 2                     |
| 14                               | 60          | CABLE (BATTERY TO SOLENOID)                    | 1                     |
| 15                               | 65          | CABLE (BATTERY TO GROUND)                      | 1                     |
|                                  | AN5-5A      | BOLT (FUSELAGE ATTACHMENT)                     | 1                     |
|                                  | AN365-524   | NUT                                            | 1                     |
|                                  | AN960-516   | WASHER                                         | 2                     |
| 16                               | 99          | CABLE (BATTERY SOLENOID TO STARTER SOLENOID)   | 1                     |
|                                  | MS21919-DF6 | CLAMP (AIRFRAME ATTACHMENT)                    | 2                     |
|                                  | AN3-3A      | BOLT                                           | 2                     |
|                                  | AN365-1032  | NUT                                            | 2                     |
| 17                               | MS25171-3S  | NIPPLE                                         | 1                     |
| 18                               | 139         | WIRE (SOLENOID TO MASTER SWITCH)               | 1                     |
|                                  | MS25171-1S  | NIPPLE                                         | 1                     |
| 19                               | 1-9806      | PLACARD                                        | 1                     |
| 20                               | AN3-4A      | BOLT                                           | 1                     |
|                                  | AN960-10    | WASHER                                         | 1                     |

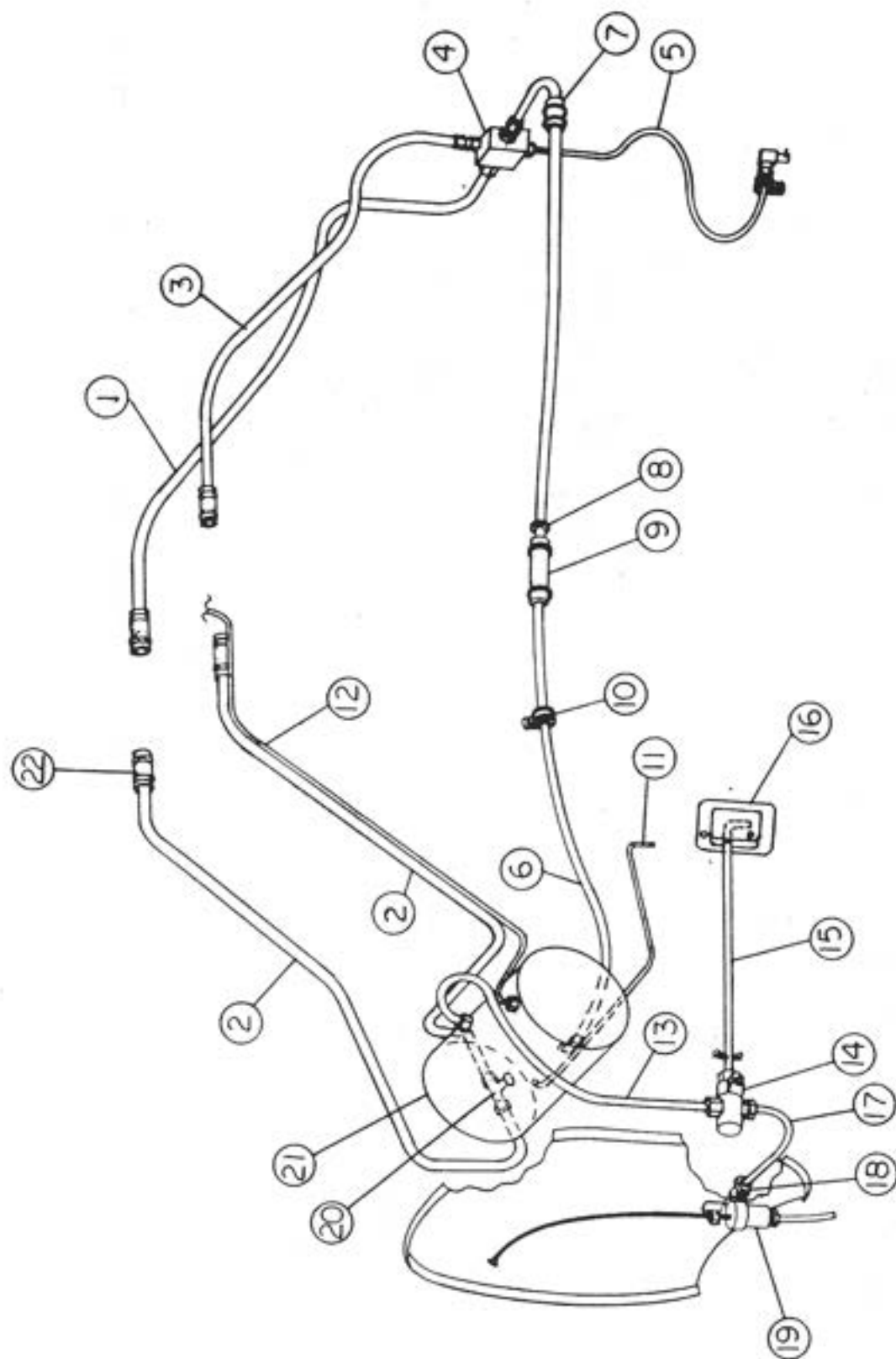


FIGURE 21  
INSTALLATION - FUSELAGE FUEL SYSTEM



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                                   | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------|-----------------------------------------------|-----------------------|
| 21-                              | 7-1414         | DRAWING - INSTALLATION FUEL SYSTEM - INVERTED |                       |
| 1                                | 7-1414-3       | FUEL LINE                                     | 1                     |
| 2                                | 7-1414-4       | FUEL LINE                                     | 2                     |
|                                  | 7-1476-5       | VINYL COVERING                                | 2                     |
| 3                                | 7-1414-1       | FUEL LINE                                     | 1                     |
| 4                                | 2-1577-2       | REAR MANIFOLD ASSEMBLY                        | 1                     |
|                                  | AN3-13A        | BOLT (ATTACHMENT)                             | 1                     |
|                                  | AN365-1032     | NUT                                           | 1                     |
|                                  | AN960-10       | WASHER                                        | 1                     |
| 5                                | 1-8856         | ASSEMBLY - TUBE AND QUICK DRAIN               | 1                     |
|                                  | MS21919-DF4    | CLAMP (ATTACHMENT)                            | 1                     |
|                                  | AN3-3A         | BOLT                                          | 1                     |
|                                  | AN365-1032     | NUT                                           | 1                     |
| 6                                | 7-1414-2       | FUEL LINE                                     | 1                     |
|                                  | 7-1414-6       | VINYL COVERING                                | 1                     |
|                                  | AN822-8D       | ELBOW                                         | 1                     |
|                                  | AN818-8D       | NUT                                           | 1                     |
|                                  | AN819-8D       | SLEEVE                                        | 1                     |
| 7                                | 1-8832-8       | HOSE                                          | 1                     |
| 8                                | AN931-8-13     | GROMMET                                       | 1                     |
| 9                                | 1-8832-7       | HOSE                                          | 1                     |
| 10                               | MS21919-DF8    | CLAMP                                         | 1                     |
|                                  | AN526-1032-10  | SCREW                                         | 1                     |
|                                  | AN365-1032     | NUT                                           | 1                     |
| 11                               | 7-1414-7       | VENT LINE                                     | 1                     |
|                                  | AN822-4D       | ELBOW                                         | 1                     |
|                                  | AN818-4D       | NUT                                           | 1                     |
|                                  | AN819-4D       | SLEEVE                                        | 1                     |
| 12                               | 7-1414-10      | VENT LINE                                     | 1                     |
|                                  | 68F 1/4 x 1/8  | CONNECTOR                                     | 1                     |
|                                  | 5/16 dia.      | CHROME STEEL BALL                             | 1                     |
| 13                               | 1-10089        | FUEL PICKUP LINE                              | 1                     |
|                                  | 1-9860         | CONNECTOR                                     | 1                     |
| 14                               | 1-10310        | FUEL SHUTOFF VALVE                            | 1                     |
|                                  | AN4-6A         | BOLT - ATTACHMENT                             | 2                     |
|                                  | AN960-416L     | WASHER                                        | 4                     |
|                                  | AN365-428      | NUT                                           | 2                     |
| 15                               | 1-10345        | FUEL SHUTOFF TUBE                             | 1                     |
|                                  | AN380-4-4      | PIN                                           | 1                     |
| 16                               | 2-2088-2       | BRACKET ASSEMBLY                              | 1                     |
|                                  | AN526-832-8    | SCREW - TOP ATTACHMENT                        | 1                     |
|                                  | C1287-832      | NUT - TOP ATTACHMENT                          | 1                     |
|                                  | AN526-832-8    | SCREW - LOWER ATTACHMENT                      | 1                     |
|                                  | C365-832       | NUT - LOWER ATTACHMENT                        | 1                     |
| 17                               | 2-2072-1       | FUEL LINE ASSEMBLY                            | 1                     |
| 18                               | 50F 3/8 x 1/4  | ELBOW                                         | 1                     |
|                                  | 112B 1/4 x 1/4 | NIPPLE                                        | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION          | UNITS<br>PER<br>ASS'Y |   |
|----------------------------------|-------------|----------------------|-----------------------|---|
| 21-<br>19                        | AN960-916L  | WASHER               | 1                     |   |
|                                  | 2-2091-3    | GASCOLATOR           | 1                     |   |
|                                  | 2-2111-1    | DRAIN LINE ASSEMBLY  | 1                     |   |
|                                  | 1-10348     | CONTROL - FUEL DRAIN | 1                     |   |
|                                  | 1-10350     | PLACARD - FUEL DRAIN | 1                     |   |
|                                  | AN742-3     | CLAMP                | 1                     |   |
|                                  | AN970-3     | WASHER               | 1                     |   |
|                                  | AN960-10    | WASHER               | 1                     |   |
|                                  | AN3-4A      | BOLT                 | 1                     |   |
|                                  | AN365-1032  | NUT                  | 1                     |   |
|                                  | 1-2577-1    | SHIM                 | 1                     |   |
|                                  | 20          | AN825-6D             | TEE                   | 1 |
|                                  |             | AN818-6D             | NUT                   | 2 |
|                                  |             | AN819-6D             | SLEEVE                | 2 |
|                                  | 21          | 4-1534               | FUEL TANK             | 1 |
|                                  |             | 7-1414-8             | NEOPRENE STRIP        | 2 |
|                                  |             | 1-9826               | SUPPORT - TANK        | 2 |
|                                  |             | AN4-10A              | BOLT (ATTACHMENT)     | 4 |
|                                  |             | AN960-416            | WASHER                | 4 |
| AN365-428                        |             | NUT                  | 4                     |   |
| 2-761-10                         |             | STRAP - FUEL TANK    | 2                     |   |
| AN520-10-32                      |             | SCREW (ATTACHMENT)   | 2                     |   |
| AN365-1032                       |             | NUT                  | 2                     |   |
| 22                               |             | 1-8832-4             | HOSE                  | 4 |
|                                  | AS8-11      | CLAMP                | 8                     |   |

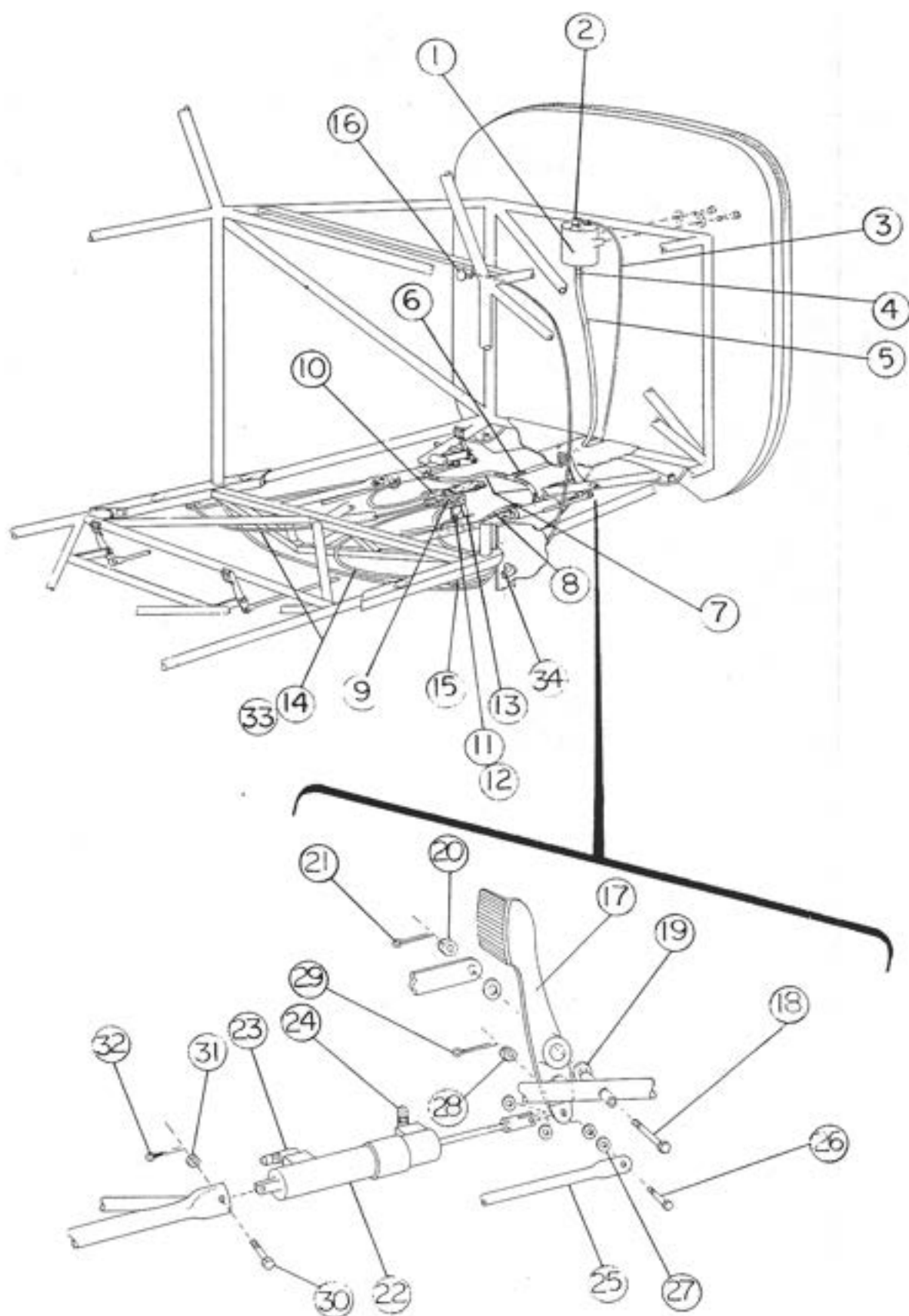


FIGURE 22  
INSTALLATION - BRAKE  
SYSTEM - HEEL

Reissued 5-1-79



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                              | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------|--------------------------------------------------------------------------|-----------------------|
| 22-                              | 4-1557        | DRAWING - INSTALLATION GERDES BRAKE SYSTEM<br>(HEEL)                     |                       |
| 1                                | A-315         | RESERVOIR                                                                | 1                     |
|                                  | AN526-1032-6  | SCREW (ATTACHMENT, FIREWALL)                                             | 2                     |
|                                  | AN936-A10     | WASHER                                                                   | 2                     |
| 2                                | 69F 1/8 x 1/8 | ELBOW                                                                    | 1                     |
| 3                                | 4-1557-1      | LINE - RESERVOIR VENT                                                    | 1                     |
| 4                                | 62001         | ADAPTER                                                                  | 1                     |
| 5                                | 4-1557-2      | LINE - RESERVOIR TO TEE                                                  | 1                     |
| 6                                | 62063         | TEE                                                                      | 1                     |
| 7                                | 4-1557-3      | LINE - TEE TO MASTER CYLINDER                                            | 2                     |
| 8                                | 2-2111-7      | LINE ASSEMBLY - MASTER CYLINDER TO PARK BRAKE                            | 2                     |
| 9                                | A-850-1       | PARKING BRAKE VALVE                                                      | 1                     |
|                                  | AN526-1032-22 | SCREW (VALVE ATTACHMENT TO FLOORBOARD)                                   | 2                     |
|                                  | AN960-10      | WASHER                                                                   | 2                     |
|                                  | AN365-1032    | NUT                                                                      | 2                     |
| 10                               | AN816-4D      | FITTING                                                                  | 2                     |
| 11                               | 1-10181       | BRACKET                                                                  | 1                     |
|                                  | AN742-4       | CLAMP - CABLE ATTACHMENT                                                 | 1                     |
| 12                               | AN3-3A        | BOLT                                                                     | 1                     |
|                                  | AN365-1032    | NUT                                                                      | 1                     |
|                                  | 1-2577-1      | SHIM                                                                     | 1                     |
| 13                               | 1-2584        | BOLT - CABLE ATTACHMENT                                                  | 1                     |
|                                  | AN365-1032    | NUT                                                                      | 1                     |
| 14                               | 2-2111-6      | LINE ASSEMBLY - RIGHT SIDE (AFT GEAR)                                    | 1                     |
|                                  | 2-2111-5      | LINE ASSEMBLY - LEFT SIDE (AFT GEAR)                                     | 1                     |
| 15                               | AN837-4D      | ELBOW (REQ'D AFT GEAR INSTALLATION ONLY)                                 | 2                     |
|                                  | AN960-716     | WASHER                                                                   | 2                     |
|                                  | AN924-4D      | NUT                                                                      | 2                     |
| 16                               | 1-10399       | CONTROL                                                                  | 1                     |
|                                  | 1-10180       | PLACARD - PARKING BRAKE                                                  | 1                     |
| 17                               | 1-2613        | BRAKE PEDAL                                                              | 2L/2R                 |
| 18                               | AN4-26        | BOLT - FRONT PEDAL ATTACHMENT                                            | 2                     |
|                                  | AN4-20        | BOLT - REAR PEDAL ATTACHMENT                                             | 2                     |
| 19                               | AN960-416L    | WASHER - FRONT ATTACHMENT                                                | 2                     |
|                                  | AN960-416     | WASHER - REAR ATTACHMENT                                                 | 2                     |
| 20                               | AN310-4       | NUT - FRONT AND REAR ATTACHMENT                                          | 4                     |
| 21                               | AN380-2-2     | COTTER KEY - FRONT AND REAR ATTACHMENT                                   | 4                     |
| 22                               | A-110-10      | MASTER CYLINDER - GERDES                                                 | 2                     |
| 23                               | AN822-4D      | ELBOW                                                                    | 2                     |
| 24                               | 62001         | ADAPTER                                                                  | 2                     |
|                                  | 62029         | ELBOW (OPTIONAL - RIGHT SIDE ONLY WHEN REAR<br>SEAT HEATER IS INSTALLED) | 1                     |
| 25                               | 1-9911        | ROD - PEDAL CONNECTING                                                   | 2                     |
| 26                               | AN3-10        | BOLT - FRONT ROD & CYLINDER ATTACHMENT                                   | 2                     |
|                                  | AN3-5         | BOLT - REAR ROD ATTACHMENT                                               | 2                     |
| 27                               | AN960-10      | WASHER - FRONT ROD & CYLINDER ATTACHMENT                                 | 8                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                             | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|---------------------------------------------------------|-----------------------|
| 22-                              | AN960-10L   | WASHER (REAR ROD ATTACHMENT)                            | 4                     |
| 28                               | AN310-3     | NUT - FRONT & REAR ATTACHMENT                           | 4                     |
| 29                               | AN380-2-2   | KEY - FRONT & REAR ATTACHMENT                           | 4                     |
| 30                               | AN3-6       | BOLT - REAR CYLINDER ATTACHMENT                         | 2                     |
| 31                               | AN310-3     | NUT - REAR CYLINDER ATTACHMENT                          | 2                     |
| 32                               | AN380-2-2   | COTTER KEY - REAR CYLINDER ATTACHMENT                   | 2                     |
| 33                               | 2-2111-7    | LINE ASSEMBLY - REQ'D FOR WRAPAROUND INSTALL-<br>ATION) | 2                     |
| 34                               | AN833-4D    | ELBOW - REQ'D FOR WRAPAROUND INSTALLATION               | 2                     |
|                                  | AN960-716   | WASHER                                                  | 2                     |
|                                  | AN924-4D    | NUT                                                     | 2                     |

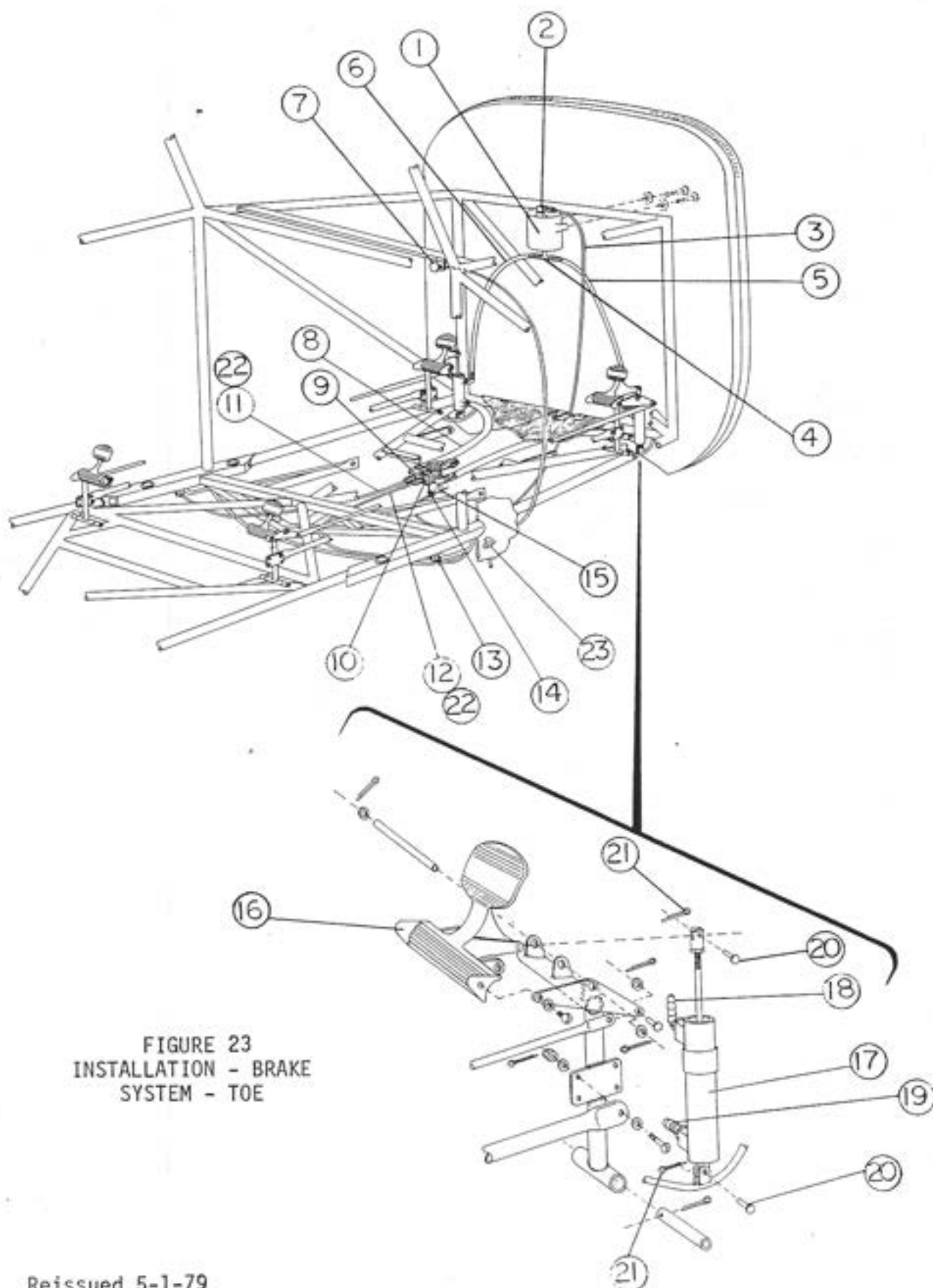


FIGURE 23  
INSTALLATION - BRAKE  
SYSTEM - TOE



| FIGURE<br>AND<br>INDEX<br>NUMBER                                           | PART NUMBER   | DESCRIPTION                                       | UNITS<br>PER<br>ASS'Y |
|----------------------------------------------------------------------------|---------------|---------------------------------------------------|-----------------------|
| 23-                                                                        | 4-1624        | DRAWING - INSTALLATION TOE BRAKE                  |                       |
| 1                                                                          | A-315         | RESERVOIR - GERDES                                | 1                     |
|                                                                            | AN526-1032-6  | SCREW (ATTACHMENT - FIREWALL)                     | 2                     |
|                                                                            | AN936-A10     | WASHER (LOCK)                                     | 2                     |
| 2                                                                          | 69F 1/8 x 1/8 | ELBOW - RESERVOIR VENT                            | 1                     |
| 3                                                                          | 4-1624-1      | LINE - RESERVIOR VENT                             | 1                     |
| 4                                                                          | 62056         | TEE                                               | 1                     |
| 5                                                                          | 4-1624-2      | LINE (RIGHT SIDE)                                 | 1                     |
| 6                                                                          | 4-1624-3      | LINE (LEFT SIDE)                                  | 1                     |
| 7                                                                          | 1-10399       | CONTROL - PARKING BRAKE                           | 1                     |
|                                                                            | 1-10180       | PLACARD - PARKING BRAKE                           | 1                     |
| 8                                                                          | 2-2162        | HOSE                                              | 2                     |
| 9                                                                          | AN822-4D      | ELBOW                                             | 2                     |
| 10                                                                         | A-850-1       | PARKING BRAKE VALVE                               | 1                     |
|                                                                            | AN526-1032-22 | SCREW (ATTACHMENT TO FLOORBOARD)                  | 2                     |
|                                                                            | AN960-10      | WASHER                                            | 2                     |
|                                                                            | AN365-1032    | NUT                                               | 2                     |
| 11                                                                         | 2-2111-5      | LINE ASSEMBLY LEFT SIDE (AFT GEAR)                | 1                     |
| 12                                                                         | 2-2111-6      | LINE ASSEMBLY RIGHT SIDE (AFT GEAR)               | 1                     |
| 13                                                                         | AN837-4D      | ELBOW (REQ'D AFT GEAR INSTALLATION ONLY)          | 2                     |
|                                                                            | AN960-716     | WASHER                                            | 2                     |
|                                                                            | AN924-4D      | NUT                                               | 2                     |
| 14                                                                         | 1-10181       | BRACKET - PARKING BRAKE CONTROL                   | 1                     |
|                                                                            | AN742-4       | CLAMP - CONTROL ATTACHMENT                        | 1                     |
|                                                                            | AN3-3A        | BOLT                                              | 1                     |
|                                                                            | 1-2577-1      | SHIM                                              | 1                     |
|                                                                            | AN365-1032    | NUT                                               | 1                     |
| 15                                                                         | 1-2584        | BOLT - CONTROL ATTACHMENT                         | 1                     |
|                                                                            | AN365-1032    | NUT                                               | 1                     |
| 16                                                                         | 4-1621        | RUDDER PEDAL AND TOE BRAKE ASSEMBLY               | 1L/1R                 |
| NOTE: SEE FIGURE 6 PAGE 18, FOR RUDDER PEDAL AND TOE BRAKE ASSEMBLY PARTS. |               |                                                   |                       |
| 17                                                                         | A110-10       | MASTER CYLINDER                                   | 2                     |
| 18                                                                         | 62029         | ELBOW                                             | 2                     |
| 19                                                                         | AN816-4D      | NIPPLE                                            | 2                     |
| 20                                                                         | MS20392-2C17  | PIN (TOP AND BOTTOM MASTER CYLINDER ATTACHMENT)   | 4                     |
| 21                                                                         | AN380-2-2     | COTTER KEY                                        | 4                     |
| 22                                                                         | 2-2111-8      | LINE ASSEMBLY (REQ'D FOR WRAPAROUND INSTALLATION) | 2                     |
| 23                                                                         | AN833-4D      | ELBOW (REQ'D FOR WRAPAROUND INSTALLATION)         | 2                     |
|                                                                            | AN960-716     | WASHER                                            | 2                     |
|                                                                            | AN924-4D      | NUT                                               | 2                     |

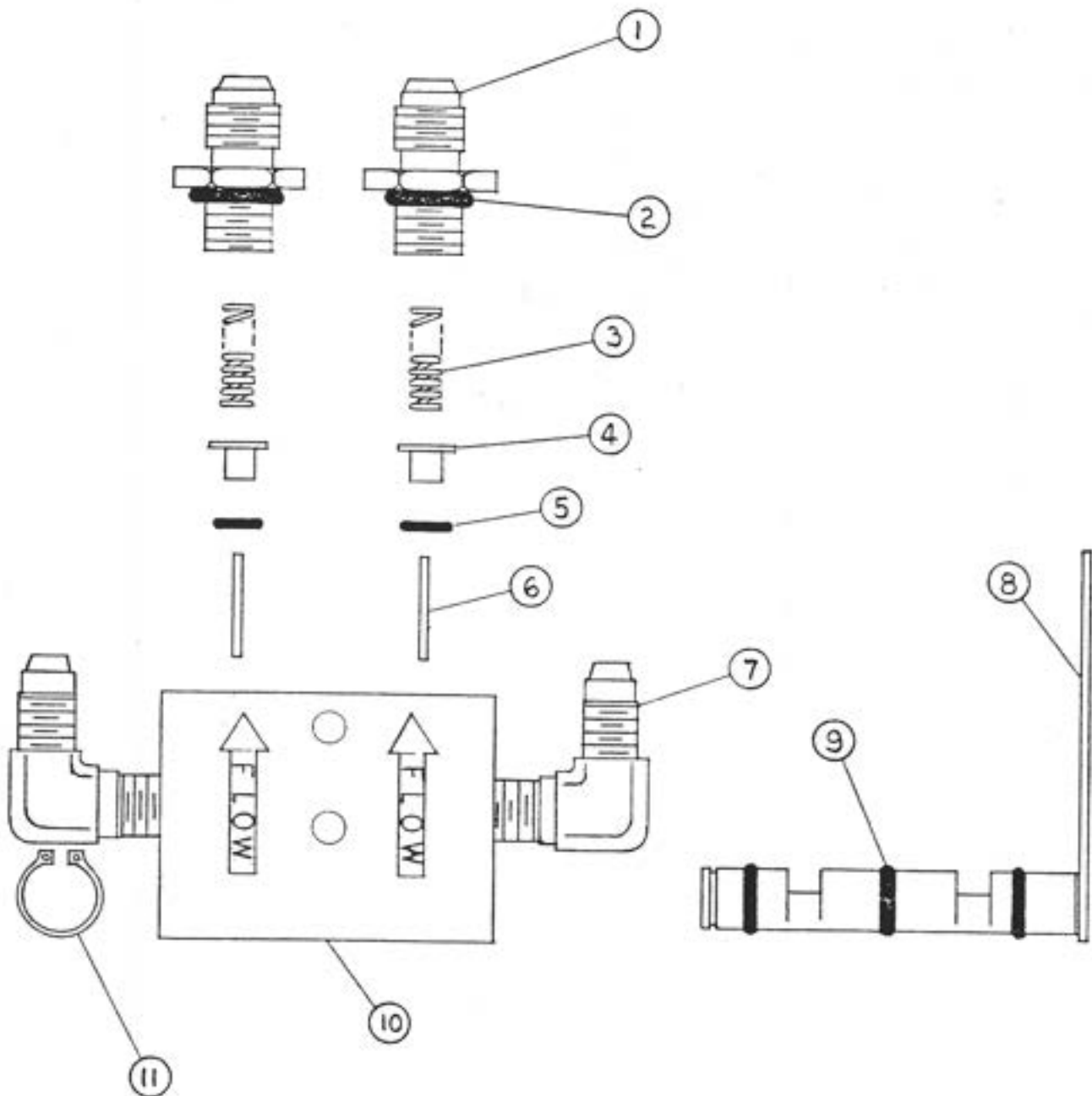


FIGURE 24  
ASSEMBLY - PARKING BRAKE VALVE



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER  | DESCRIPTION                                       | UNITS<br>PER<br>ASS'Y |
|----------------------------------|--------------|---------------------------------------------------|-----------------------|
| 24-                              | A-850-1      | DRAWING - ASSEMBLY - PARKING BRAKE VALVE (GERDES) |                       |
| 1                                | A-867-A      | FITTING                                           | 2                     |
| 2                                | AN6290-4     | "O" RING - BOSS GASKET                            | 2                     |
| 3                                | A-1259-A     | SPRING                                            | 2                     |
| 4                                | A-1384-A     | POPPET                                            | 2                     |
| 5                                | 2-008        | "O" RING                                          | 2                     |
| 6                                | 28420-093-10 | DOWEL PIN                                         | 2                     |
| 7                                | AN822-4D     | FITTING                                           | 2                     |
| 8                                | A-908-A      | CAM SHAFT ASSEMBLY                                | 1                     |
| 9                                | 2-010        | "O" RING                                          | 3                     |
| 10                               | A-866-A      | VALVE HOUSING                                     | 1                     |
| 11                               | 5100-37      | SNAP RING                                         | 1                     |

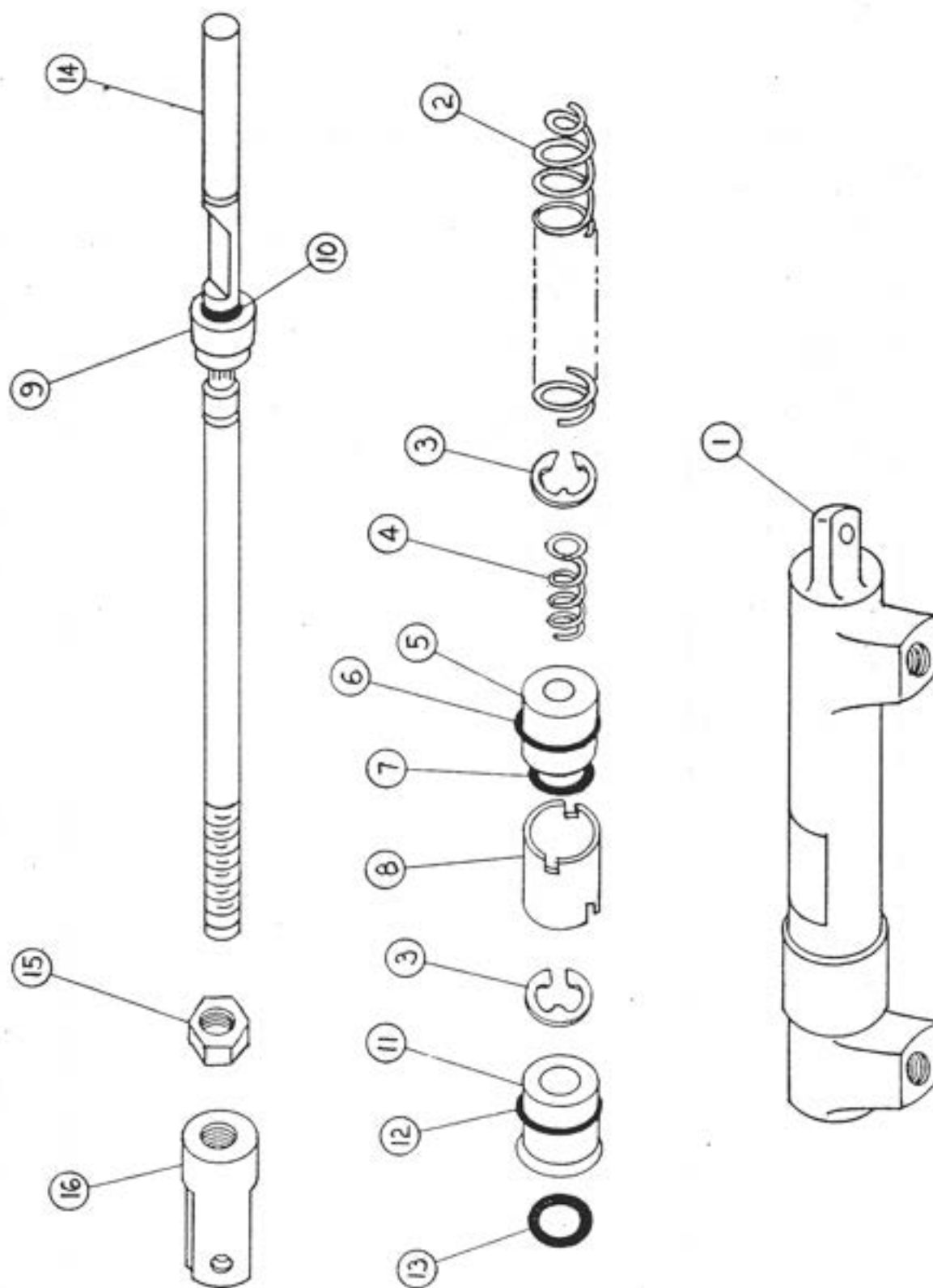


FIGURE 25  
ASSEMBLY - MASTER CYLINDER



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                        | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|------------------------------------|-----------------------|
| 25-                              | A-110-10    | DRAWING - ASSEMBLY MASTER CYLINDER |                       |
| 1                                | A-658-A     | BRAKE HOUSING                      | 1                     |
| 2                                | A-323-A     | SPRING                             | 1                     |
| 3                                | X5133-21    | SNAP RING - TRUARC                 | 2                     |
| 4                                | A-113-A     | SPRING                             | 1                     |
| 5                                | A-497-A     | PISTON                             | 1                     |
| 6                                | 11-111      | "O" RING                           | 1                     |
| 7                                | 11-008      | "O" RING                           | 1                     |
| 8                                | A-138-A     | SPACER                             | 1                     |
| 9                                | A-086-A     | THRUST COLLAR                      | 1                     |
| 10                               | 11-014      | "O" RING                           | 1                     |
| 11                               | A-104-A     | END CAP AND BEARING                | 1                     |
| 12                               | 11-011      | "O" RING                           | 1                     |
| 13                               | N5000-68    | SNAP RING - TRUARC                 | 1                     |
| 14                               | A-137-A1    | SHAFT                              | 1                     |
| 15                               | AN316-5     | LOCK NUT                           | 1                     |
| 16                               | A-193-A     | CLEVIS END                         | 1                     |

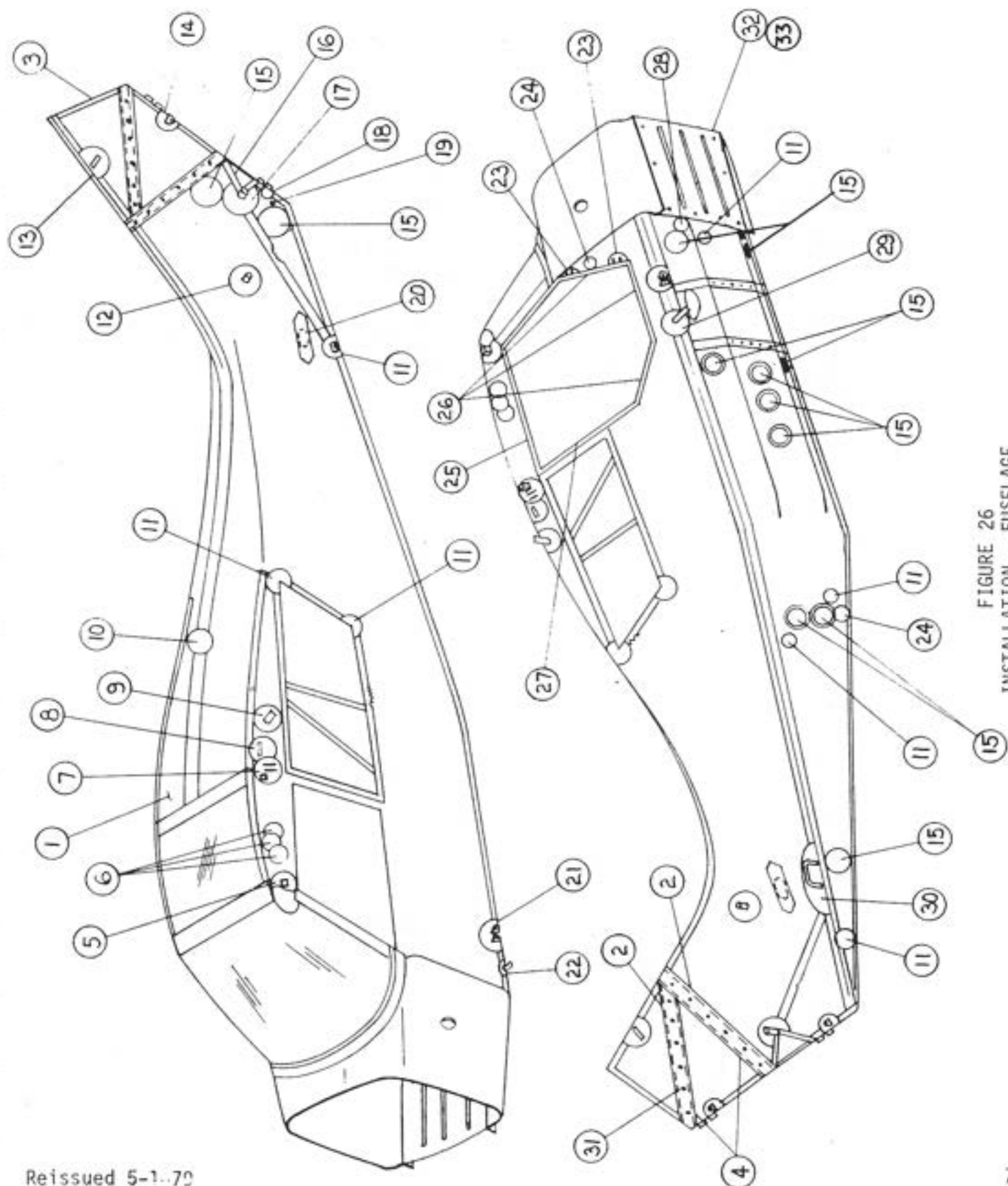


FIGURE 26  
INSTALLATION - FUSELAGE  
COVERING



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER  | DESCRIPTION                                        | UNITS<br>PER<br>ASS'Y |
|----------------------------------|--------------|----------------------------------------------------|-----------------------|
| 26-                              | 7-1268       | DRAWING - COVERING FUSELAGE                        |                       |
| 1                                | 7-1268-1     | FABRIC                                             | A/R                   |
| 2                                | 7-1268-2     | 2" TAPE - GRADE A PREDOPED OR DACRON               | A/R                   |
| 3                                | 7-1268-3     | 3" TAPE - GRADE A PREDOPED OR DACRON               | A/R                   |
| 4                                | 7-1268-4     | 1" TAPE - GRADE A PREDOPED OR DACRON               | A/R                   |
| 5                                | 1-10127      | PATCH - WING ATTACHMENT FITTING                    | 2                     |
| 6                                | 1-268-2      | PATCH - GROUND LUG, PITOT LINES AND NAV.<br>LIGHTS | 6                     |
| 7                                | 2-828        | PATCH - WING ATTACHMENT FITTING                    | 2                     |
| 8                                | 1-2688       | PATCH - AILERON CABLE SUPPORT                      | 2                     |
| 9                                | 1-268-8      | PATCH - REAR FUEL LINE                             | 2                     |
| 10                               | 1-268-1      | PATCH - BEACON                                     | 1                     |
| 11                               | 1-268-2      | PATCH - 3"                                         | 10                    |
| 12                               | 1-2686       | PATCH - STABILIZER ATTACHMENT                      | 2                     |
| 13                               | 1-268-6      | PATCH                                              | 1                     |
| 14                               | 1-372        | PATCH                                              | 2                     |
| 15                               | 2-2172       | WASHER                                             | 12                    |
|                                  | 1-268-14     | PATCH                                              | 12                    |
|                                  | 3-639        | COVER                                              | 12                    |
| 16                               | 1-10004      | PATCH - ELEVATOR HORN                              | 4                     |
| 17                               | 2-887        | PATCH - STABILIZER ATTACHMENT                      | 2                     |
|                                  | 1-2661       | WASHER - LEFT SIDE ONLY                            | 1                     |
| 18                               | 1-268-10     | PATCH                                              | 1                     |
| 19                               | 1-2953       | WASHER - LEFT SIDE ONLY                            | 1                     |
| 20                               | 1-9971       | GROMMET                                            | 2                     |
|                                  | 1-10245      | PATCH                                              | 2                     |
| 21                               | 2-830        | PATCH - STRUT FITTING                              | 2                     |
| 23                               | 1-8771       | PATCH                                              | 2                     |
| 24                               | 1-268-12     | PATCH - 2"                                         | 2                     |
| 25                               | 1-9970-2     | ANGLE - FABRIC RETAINER - DOOR                     | 1                     |
| 26                               | 1-9970-3     | ANGLE - FABRIC RETAINER - DOOR                     | 1                     |
| 27                               | 1-9970-1     | ANGLE - FABRIC RETAINER - DOOR                     | 1                     |
| 28                               | 1-268-2      | PATCH                                              | 2                     |
|                                  | 1-2952       | WASHER                                             | 2                     |
| 29                               | 2-825        | PATCH - STEP                                       | 1                     |
| 30                               | 2-831        | PATCH - LIFT HANDLE                                | 1                     |
| 31                               | AD42BSLF     | RIVET - FABRIC ATTACHMENT                          | 24                    |
| 32                               | 7-1467       | BELLY PAN                                          | 1                     |
|                                  | AN526-1032-8 | SCREW                                              | 13                    |
|                                  | AN936-A10    | WASHER                                             | 13                    |
|                                  | 1-10551      | WASHER                                             | 9                     |
|                                  | C31072-1032  | NUT                                                | 13                    |
| 33                               | 1-10354      | MAT - BELLY PAN                                    | 1                     |

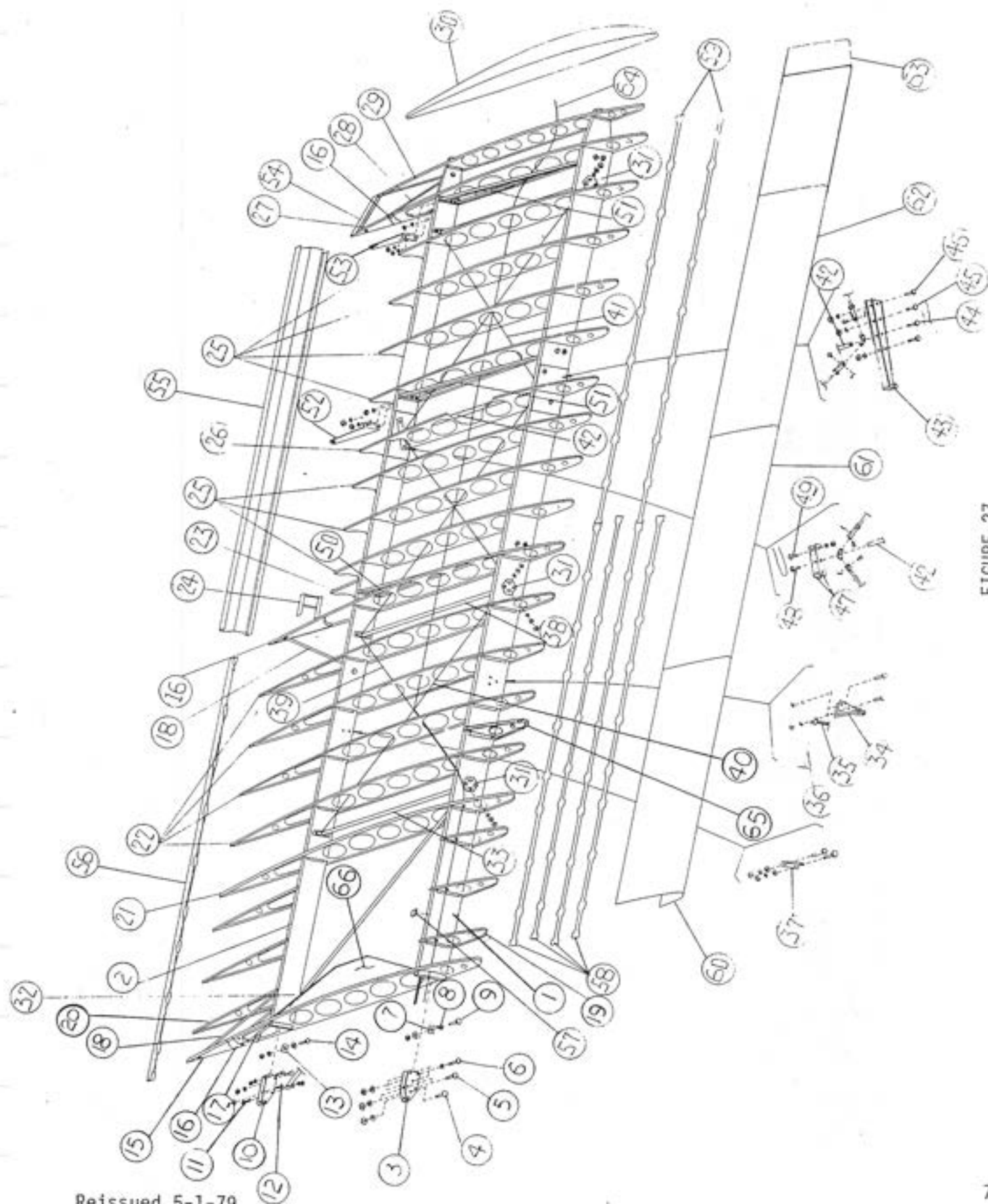


FIGURE 27  
ASSEMBLY - WING FRAME  
PRE 1978 MODELS



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                                                          | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|--------------------------------------------------------------------------------------|-----------------------|
| 27-                              | 7-1401      | DRAWING - ASSEMBLY WING FRAME                                                        |                       |
|                                  |             | <u>NOTE:</u> BELOW PARTS FOR A LEFT WING, RIGHT WING<br>PARTS OPPOSITE UNLESS NOTED. |                       |
| 1                                | 5-355       | SPAR - FRONT                                                                         | 1L                    |
| 2                                | 5-356       | SPAR - REAR                                                                          | 1L                    |
| 3                                | 2-1969      | FITTING - FRONT SPAR BUTT                                                            | 1                     |
| 4                                | AN3-15A     | BOLT (SPAR ATTACHMENT)                                                               | 1                     |
|                                  | AN960-10    | WASHER                                                                               | 1                     |
|                                  | AN365-1032  | NUT                                                                                  | 1                     |
| 5                                | AN4-16A     | BOLT (SPAR ATTACHMENT)                                                               | 2                     |
|                                  | AN960-416   | WASHER                                                                               | 2                     |
|                                  | AN365-428   | NUT                                                                                  | 2                     |
| 6                                | AN4-16A     | BOLT (SPAR ATTACHMENT)                                                               | 3                     |
|                                  | AN960-416   | WASHER                                                                               | 6                     |
|                                  | AN365-428   | NUT                                                                                  | 3                     |
| 7                                | 1-2267-1    | SPACER                                                                               | 1                     |
|                                  | 1-2267-2    | SPACER                                                                               | 1                     |
| 8                                | MS21919-DF4 | CLAMP                                                                                | 1                     |
| 9                                | AN3-15A     | BOLT (SPAR ATTACHMENT)                                                               | 1                     |
|                                  | AN970-3     | WASHER                                                                               | 1                     |
|                                  | AN365-1032  | NUT                                                                                  | 1                     |
| 10                               | 2-703       | FITTING - REAR SPAR BUTT                                                             | 1                     |
| 11                               | AN4-24A     | BOLT (SPAR ATTACHMENT)                                                               | 1                     |
|                                  | AN960-416   | WASHER                                                                               | 1                     |
|                                  | AN365-428   | NUT                                                                                  | 1                     |
| 12                               | AN6-14A     | BOLT (SPAR ATTACHMENT)                                                               | 3                     |
|                                  | AN960-616   | WASHER                                                                               | 3                     |
|                                  | AN365-624   | NUT                                                                                  | 3                     |
| 13                               | 1-2267-1    | SPACER                                                                               | 1                     |
| 14                               | AN4-13A     | BOLT                                                                                 | 1                     |
|                                  | AN960-416   | WASHER                                                                               | 1                     |
|                                  | AN970-4     | WASHER                                                                               | 1                     |
|                                  | AN365-428   | NUT                                                                                  | 1                     |
| 15                               | 5-365L      | RIB - BUTT                                                                           | 1                     |
| 16                               | 5-366R      | RIB - AILERON SECTOR                                                                 | 1R                    |
|                                  | 3-1430      | STIFFENER - RIB                                                                      | 3                     |
| 17                               | 1-10207     | BRACE                                                                                | 2                     |
|                                  | AN3-12A     | BOLT (SPAR ATTACHMENT)                                                               | 2                     |
|                                  | AN970-3     | WASHER                                                                               | 2                     |
|                                  | AN960-10    | WASHER                                                                               | 2                     |
|                                  | AN365-1032  | NUT                                                                                  | 2                     |
|                                  | AN526-8-14  | SCREW (RIB ATTACHMENT)                                                               | 6                     |
|                                  | AN960-8     | WASHER                                                                               | 6                     |
|                                  | AN365-832   | NUT                                                                                  | 6                     |
| 18                               | 2-1981      | BRACE                                                                                | 2                     |
|                                  | AN3-12A     | BOLT (SPAR ATTACHMENT)                                                               | 2                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER  | DESCRIPTION                       | UNITS<br>PER<br>ASS'Y |
|----------------------------------|--------------|-----------------------------------|-----------------------|
| 27-                              | AN970-3      | WASHER                            | 2                     |
|                                  | AN960-10     | WASHER                            | 2                     |
|                                  | AN365-1032   | NUT                               | 2                     |
|                                  | AN526-832-14 | SCREW (RIB ATTACHMENT)            | 2                     |
|                                  | AN960-8      | WASHER                            | 2                     |
|                                  | AN365-832    | NUT                               | 2                     |
| 19                               | 4-1528       | RIB - NOSE (TANK AREA)            | 3                     |
| 20                               | 4-1527       | RIB - TRAILING (TANK AREA)        | 3                     |
| 21                               | 5-364        | RIB                               | 1R                    |
|                                  | AC301-18-8   | NAIL (SPAR ATTACHMENT)            | 10                    |
| 22                               | 5-364        | RIB                               | 4L                    |
|                                  | AC301-18-8   | NAIL (SPAR ATTACHMENT)            | 40                    |
| 23                               | 2-1978       | RIB - AILERON SECTOR              | 1R                    |
|                                  | AC301-16-5   | NAIL (SPAR ATTACHMENT)            | 4                     |
| 24                               | 2-1979       | COVER - AILERON SECTOR            | 1                     |
|                                  | AD42BS       | RIVET (RIB ATTACHMENT)            | 10                    |
| 25                               | 5-363        | RIB - AILERON BAY                 | 7R                    |
|                                  | AC301-18-8   | NAIL (SPAR ATTACHMENT)            | 70                    |
| 26                               | 5-367        | RIB - AILERON BAY                 | 1R                    |
|                                  | AC301-18-8   | NAIL (SPAR ATTACHMENT)            | 10                    |
| 27                               | 5-364        | RIB                               | 1L                    |
|                                  | AC301-18-8   | NAIL (SPAR ATTACHMENT)            | 10                    |
| 28                               | 2-1980       | BRACE                             | 1                     |
|                                  | AN3-12A      | BOLT (SPAR ATTACHMENT)            | 1                     |
|                                  | AN970-3      | WASHER                            | 1                     |
|                                  | AN960-10     | WASHER                            | 1                     |
|                                  | AN365-1032   | NUT                               | 1                     |
|                                  | AN526-832-14 | SCREW (RIB ATTACHMENT)            | 1                     |
|                                  | AN960-8      | WASHER                            | 1                     |
|                                  | AN365-832    | NUT                               | 1                     |
| 29                               | 5-361        | RIB - TIP                         | 1                     |
|                                  | AC301-18-8   | NAIL (SPAR ATTACHMENT)            | 8                     |
| 30                               | 5-362        | WING TIP                          | 1                     |
|                                  | 1601-0410    | RIVET (RIB ATTACHMENT)            | 19                    |
| 31                               | 1-2301       | FITTING - DRAG WIRE               | 6                     |
| 32                               | 1-10070      | TUBE - DIAGONAL                   | 1                     |
|                                  | AN4-14A      | BOLT (2-1971 STRUT ATTACHMENT)    | 1                     |
|                                  | AN960-416    | WASHER                            | 1                     |
|                                  | AN365-428    | NUT                               | 1                     |
| 33                               | 2-1971       | STRUT - COMPRESSION               | 1                     |
|                                  | AN4-15A      | BOLT (FRONT SPAR ATTACHMENT)      | 2                     |
|                                  | AN960-416    | WASHER                            | 2                     |
|                                  | AN365-428    | NUT                               | 2                     |
|                                  | AN4-12A      | BOLT (REAR SPAR ATTACHMENT)       | 2                     |
|                                  | AN960-416L   | WASHER                            | 2                     |
|                                  | AN365-428    | NUT                               | 2                     |
| 34                               | 2-2001       | FITTING - JURY STRUT - FRONT SPAR | 1                     |
|                                  | AN3-14A      | BOLT (SPAR ATTACHMENT)            | 3                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                   | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|-----------------------------------------------|-----------------------|
| 27-                              | AN960-10    | WASHER                                        | 3                     |
|                                  | AN365-1032  | NUT                                           | 3                     |
| 35                               | MS21919-DF4 | CLAMP (PITOT LINES ATTACHMENT LEFT WING ONLY) | 1                     |
| 36                               | 1-9048-3    | PITOT LINE (LEFT WING ONLY)                   | 2                     |
| 37                               | 1-10105     | FITTING - JURY STRUT - REAR SPAR              | 1L                    |
|                                  | AN3-12A     | BOLT (SPAR ATTACHMENT)                        | 2                     |
|                                  | AN970-3     | WASHER                                        | 2                     |
|                                  | AN960-10    | WASHER                                        | 2                     |
|                                  | AN365-1032  | NUT                                           | 2                     |
| 38                               | 2-1972      | STRUT - COMPRESSION                           | 2                     |
|                                  | AN4-15A     | BOLT (FRONT SPAR ATTACHMENT)                  | 4                     |
|                                  | AN960-416   | WASHER                                        | 8                     |
|                                  | AN365-428   | NUT                                           | 4                     |
|                                  | AN4-12A     | BOLT (REAR SPAR ATTACHMENT)                   | 4                     |
|                                  | AN960-416L  | WASHER                                        | 4                     |
|                                  | AN365-428   | NUT                                           | 4                     |
| 39                               | 1-2595-2    | DRAG WIRE ASSEMBLY                            | 1                     |
|                                  | 1-2527-1    | WIRE - DRAG                                   | 1                     |
|                                  | AN315-3R    | NUT                                           | 1                     |
|                                  | AN665-21R   | TERMINAL                                      | 1                     |
|                                  | AN393-11    | PIN (LUG ATTACHMENT)                          | 1                     |
|                                  | AN380-2-2   | COTTER PIN                                    | 1                     |
|                                  | AN315-3R    | NUT (1-2301 FITTING ATTACHMENT)               | 2                     |
|                                  | AN960-10    | WASHER                                        | 1                     |
| 40                               | 1-2527-2    | WIRE - DRAG                                   | 1                     |
|                                  | AN315-3R    | NUT (1-2301 FITTING ATTACHMENT)               | 4                     |
|                                  | AN960-10    | WASHER                                        | 2                     |
| 41                               | 2-2079-2    | DRAG WIRE ASSEMBLY                            | 2                     |
|                                  | 1-2527-1    | WIRE - DRAG                                   | 4                     |
|                                  | 1-2300      | LUG (TERMINAL ATTACHMENT)                     | 2                     |
|                                  | AN315-3R    | NUT                                           | 4                     |
|                                  | AN665-21R   | TERMINAL                                      | 4                     |
|                                  | AN393-11    | PIN                                           | 4                     |
|                                  | AN380-2-2   | COTTER PIN                                    | 4                     |
|                                  | AN315-3R    | NUT (1-2301 FITTING ATTACHMENT)               | 8                     |
|                                  | AN960-10    | WASHER                                        | 4                     |
| 42                               | 1-10080     | TUBE - COMPRESSION                            | 1                     |
| 43                               | 2-1976      | FITTING - WING STRUT (FRONT SPAR)             | 1                     |
| 44                               | AN6H-20A    | BOLT (COMPRESSION TUBE ATTACHMENT)            | 1                     |
| 45                               | AN5H-17A    | BOLT (SPAR ATTACHMENT)                        | 1                     |
|                                  | AN960-516   | WASHER                                        | 2                     |
|                                  | AN365-528   | NUT                                           | 1                     |
| 46                               | AN5-17A     | BOLT (SPAR ATTACHMENT)                        | 2                     |
|                                  | AN960-416   | WASHER                                        | 4                     |
|                                  | AN365-528   | NUT                                           | 2                     |
| 47                               | 1-2289      | FITTING - WING STRUT (REAR SPAR)              | 2                     |
| 48                               | AN6H-17A    | BOLT (COMPRESSION TUBE ATTACHMENT)            | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                             | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|---------------------------------------------------------|-----------------------|
| 27-49                            | AN6H-16A    | BOLT (SPAR ATTACHMENT)                                  | 1                     |
|                                  | AN960-616   | WASHER                                                  | 1                     |
|                                  | AN365-624   | NUT                                                     | 1                     |
| 50                               | 4-1516      | TRUSS - AILERON HINGE                                   | 1                     |
|                                  | AN4-14A     | BOLT (REAR SPAR ATTACHMENT)                             | 2                     |
|                                  | AN960-416   | WASHER                                                  | 2                     |
|                                  | AN365-428   | NUT                                                     | 2                     |
|                                  | AN3-4A      | BOLT (1-10066 BRACKET ATTACHMENT)                       | 1                     |
|                                  | AN960-10    | WASHER                                                  | 1                     |
|                                  | AN365-1032  | NUT                                                     | 1                     |
|                                  | 1-10066     | BRACKET - AILERON TRUSS ATTACHMENT                      | 1                     |
|                                  | AN3-14A     | BOLT (FRONT SPAR ATTACHMENT)                            | 2                     |
|                                  | AN970-3     | WASHER                                                  | 2                     |
|                                  | AN960-10    | WASHER                                                  | 2                     |
|                                  | AN365-1032  | NUT                                                     | 2                     |
| 51                               | 4-1516      | TRUSS - AILERON HINGE                                   | 2                     |
|                                  | AN4-12A     | BOLT (REAR SPAR ATTACHMENT - UPPER)                     | 2                     |
|                                  | 1-2267-3    | SHIM                                                    | 2                     |
|                                  | AN365-428   | NUT                                                     | 2                     |
|                                  | AN4-13A     | BOLT (REAR SPAR ATTACHMENT - LOWER)                     | 4                     |
|                                  | AN960-416   | WASHER                                                  | 4                     |
|                                  | AN365-428   | NUT                                                     | 4                     |
|                                  | AN3-4A      | BOLT (1-10066 BRACKET ATTACHMENT)                       | 2                     |
|                                  | AN960-10    | WASHER                                                  | 2                     |
|                                  | AN365-1032  | NUT                                                     | 2                     |
|                                  | 1-10066     | BRACKET - AILERON TRUSS ATTACHMENT                      | 2                     |
|                                  | AN3-14A     | BOLT (FRONT SPAR ATTACHMENT)                            | 4                     |
|                                  | AN970-3     | WASHER                                                  | 4                     |
|                                  | AN960-10    | WASHER                                                  | 4                     |
|                                  | AN365-1032  | NUT                                                     | 4                     |
| 52                               | 2-1973      | SUPPORT - AILERON HINGE                                 | 1L                    |
| 53                               | 2-1973      | SUPPORT - AILERON HINGE                                 | 1R                    |
| 54                               | 2-1982      | TRAILING EDGE - WING TIP                                | 1                     |
|                                  | AS6-4-4SS   | SCREW (RIB ATTACHMENT)                                  | 8                     |
| 55                               | 5-359       | SKIN - AILERON BAY                                      | 1L                    |
|                                  | AD41BS      | RIVET (RIB ATTACHMENT)                                  | 40                    |
| 56                               | 2-1977      | TRAILING EDGE                                           | 1                     |
|                                  | AS6-4-4SS   | SCREW (RIB ATTACHMENT)                                  | 20                    |
| 57                               | 1-10024     | BLOCK - SKIN SUPPORT                                    | 19                    |
| 58                               | 4-1519-1    | STIFFENER - LEADING EDGE                                | 4                     |
| 59                               | 4-1519-2    | STIFFENER - LEADING EDGE                                | 2                     |
| 60                               | 4-1517-3    | SKIN - LEADING EDGE                                     | 1                     |
|                                  | 4-1517-4    | SKIN - LEADING EDGE - OPTIONAL<br>(WITH FRESH AIR VENT) | 1L                    |
|                                  | 4-1517-4    | SKIN - LEADING EDGE (RIGHT WING ONLY)                   | 1R                    |
| 61                               | 4-1517-2    | SKIN - LEADING EDGE                                     | 1                     |
| 62                               | 4-1517-1    | SKIN - LEADING EDGE                                     | 1                     |
|                                  | AD42BS      | RIVET (RIB ATTACHMENT)                                  | 210                   |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                 | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|-----------------------------|-----------------------|
| 27-63                            | 4-1518      | SKIN - LEADING EDGE TIP     | 1L                    |
|                                  | 1601-0410   | RIVET (WING TIP ATTACHMENT) | 1L                    |
| 64                               | 59          | WIRE (NAV. LIGHTS)          | 2                     |
|                                  | 122         | WIRE (NAV. LIGHTS)          | 1                     |
| 65                               | 4-1528      | RIB - NOSE                  | 1                     |
|                                  | AC301-16-5  | NAIL (RIB ATTACHMENT)       | 5                     |
| 66                               | 4-1694      | BRACKET (RIB SUPPORT)       | 2                     |
|                                  | AD42BS      | RIVET (BRACKET ATTACHMENT)  | 10                    |
|                                  | 7-1401-1    | RUBBER CHAFE STRIP          | 4                     |

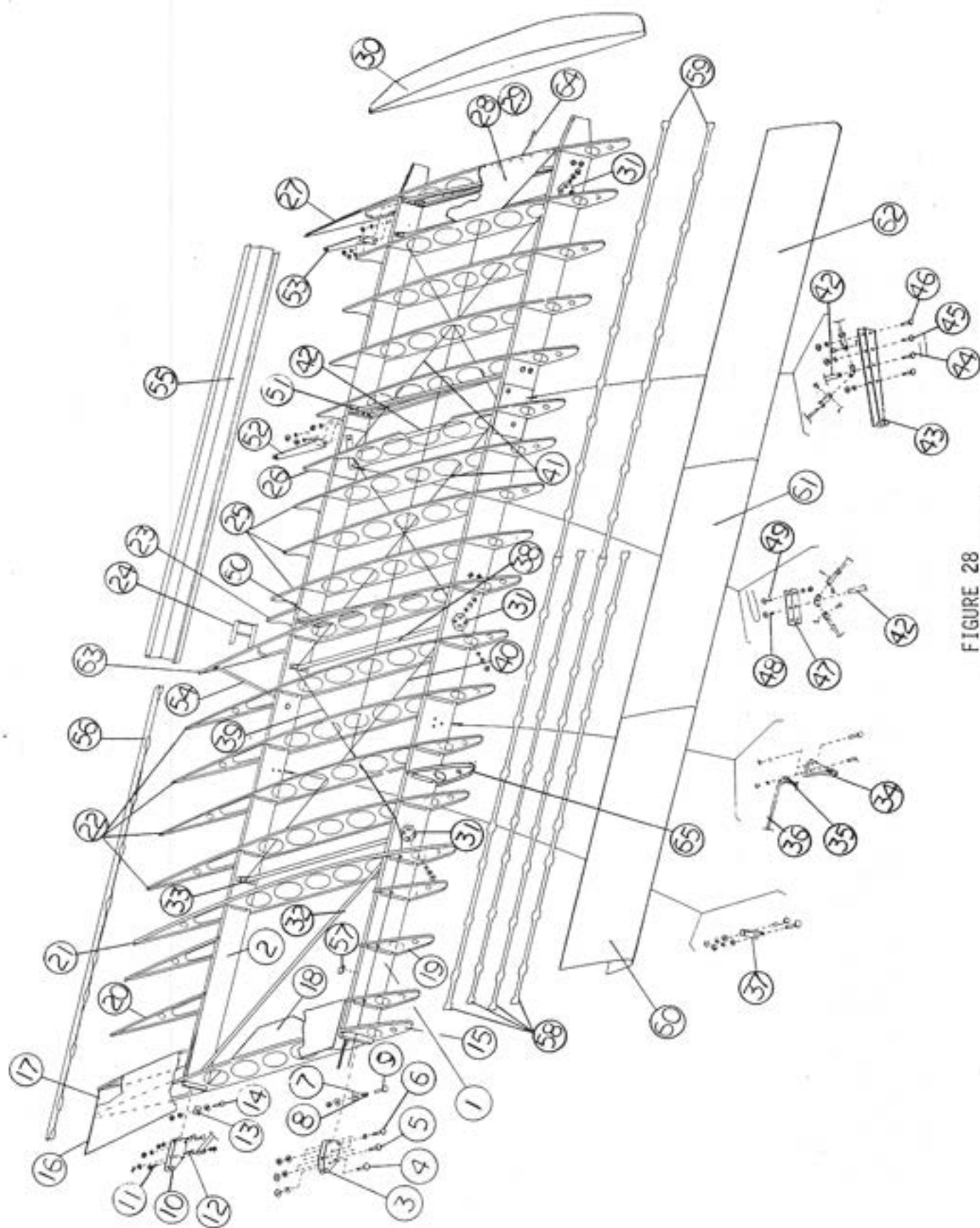


FIGURE 28  
ASSEMBLY WING FRAME  
1978 MODELS AND UP



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION                                                                       | UNITS PER ASS'Y |
|-------------------------|-------------|-----------------------------------------------------------------------------------|-----------------|
| 28-                     | 7-1525      | DRAWING - ASSEMBLY WING FRAME                                                     |                 |
|                         |             | <u>NOTE:</u> BELOW PARTS FOR A LEFT WING, RIGHT WING PARTS OPPOSITE UNLESS NOTED. |                 |
| 1                       | 5-355       | SPAR - FRONT                                                                      | 1L              |
| 2                       | 5-356       | SPAR - REAR                                                                       | 1L              |
| 3                       | 2-1969      | FITTING - FRONT SPAR BUTT                                                         | 1               |
| 4                       | AN3-15A     | BOLT (SPAR ATTACHMENT)                                                            | 1               |
|                         | AN960-10    | WASHER                                                                            | 1               |
|                         | AN365-1032  | NUT                                                                               | 1               |
| 5                       | AN4-16A     | BOLT (SPAR ATTACHMENT)                                                            | 2               |
|                         | AN960-416   | WASHER                                                                            | 2               |
|                         | AN365-428   | NUT                                                                               | 2               |
| 6                       | AN4-16A     | BOLT (SPAR ATTACHMENT)                                                            | 3               |
|                         | AN960-416   | WASHER                                                                            | 6               |
|                         | AN365-428   | NUT                                                                               | 3               |
| 7                       | 1-2267-1    | SPACER                                                                            | 1               |
|                         | 1-2267-2    | SPACER                                                                            | 1               |
| 8                       | MS21919-DF4 | CLAMP                                                                             | 1               |
| 9                       | AN3-15A     | BOLT (SPAR ATTACHMENT)                                                            | 1               |
|                         | AN970-3     | WASHER                                                                            | 1               |
|                         | AN365-1032  | NUT                                                                               | 1               |
| 10                      | 2-703       | FITTING - REAR SPAR BUTT                                                          | 1               |
| 11                      | AN4-24A     | BOLT (SPAR ATTACHMENT)                                                            | 1               |
|                         | AN960-416   | WASHER                                                                            | 1               |
|                         | AN365-428   | NUT                                                                               | 1               |
| 12                      | AN6-14A     | BOLT (SPAR ATTACHMENT)                                                            | 3               |
|                         | AN960-616   | WASHER                                                                            | 3               |
|                         | AN365-624   | NUT                                                                               | 3               |
| 13                      | 1-2267-1    | SPACER                                                                            | 1               |
| 14                      | AN4-13A     | BOLT                                                                              | 1               |
|                         | AN960-416   | WASHER                                                                            | 1               |
|                         | AN970-4     | WASHER                                                                            | 1               |
|                         | AN365-428   | NUT                                                                               | 1               |
| 15                      | 5-365L      | RIB - BUTT                                                                        | 1               |
| 16                      | 5-391       | TOP - SKIN                                                                        | 1               |
| 17                      | 4-1740      | LOWER - AFT SKIN                                                                  | 1               |
| 18                      | 4-1694      | LOWER - CENTER BRACKET                                                            | 1               |
| 19                      | 4-1528      | RIB - NOSE (TANK AREA)                                                            | 3               |
| 20                      | 4-1527      | RIB - TRAILING (TANK AREA)                                                        | 3               |
| 21                      | 5-364       | RIB                                                                               | 1R              |
|                         | AC301-18-8  | NAIL (SPAR ATTACHMENT)                                                            | 10              |
| 22                      | 5-364       | RIB                                                                               | 4L              |
|                         | AC301-18-8  | NAIL (SPAR ATTACHMENT)                                                            | 40              |
| 23                      | 2-1978      | RIB - AILERON SECTOR                                                              | 1R              |
|                         | AC301-16-5  | NAIL (SPAR ATTACHMENT)                                                            | 4               |
| 24                      | 2-1979      | COVER - AILERON SECTOR                                                            | 1               |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                   | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|-----------------------------------------------|-----------------------|
| 28-                              | AD42BS      | RIVET (RIB ATTACHMENT)                        | 10                    |
| 25                               | 5-363       | RIB - AILERON BAY                             | 7R                    |
|                                  | AC301-18-8  | NAIL (SPAR ATTACHMENT)                        | 70                    |
| 26                               | 5-367       | RIB - AILERON BAY                             | 1R                    |
|                                  | AC301-18-8  | NAIL (SPAR ATTACHMENT)                        | 10                    |
| 27                               | 5-389L      | RIB - TIP                                     | 1L                    |
|                                  | AN3-14A     | BOLT (FORWARD ATTACHMENT)                     | 2                     |
|                                  | AN3-11A     | BOLT (AFT ATTACHMENT)                         | 2                     |
|                                  | AN960-10L   | WASHER                                        | 4                     |
|                                  | AN970-3     | WASHER                                        | 4                     |
|                                  | AN365-1032  | NUT                                           | 4                     |
| 28                               | 3-1603-1    | PLATE REINFORCEMENT - TOP                     | 1                     |
| 29                               | 3-1603-2    | PLATE REINFORCEMENT - BOTTOM                  | 1                     |
| 30                               | 7-1506      | WING TIP                                      | 1                     |
|                                  | AS6-6-6SP   | SCREW (TIP ATTACHMENT)                        | 32                    |
| 31                               | 1-2301      | FITTING - DRAG WIRE                           | 6                     |
| 32                               | 1-10070     | TUBE - DIAGONAL                               | 1                     |
|                                  | AN4-14A     | BOLT (2-1971 STRUT ATTACHMENT)                | 1                     |
|                                  | AN960-416   | WASHER                                        | 2                     |
|                                  | AN365-428   | NUT                                           | 1                     |
| 33                               | 2-1971      | STRUT - COMPRESSION                           | 1                     |
|                                  | AN4-15A     | BOLT (FRONT SPAR ATTACHMENT)                  | 2                     |
|                                  | AN960-416   | WASHER                                        | 2                     |
|                                  | AN365-428   | NUT                                           | 2                     |
|                                  | AN4-12A     | BOLT (REAR SPAR ATTACHMENT)                   | 2                     |
|                                  | AN960-416L  | WASHER                                        | 2                     |
|                                  | AN365-428   | NUT                                           | 2                     |
| 34                               | 2-2001      | FITTING - JURY STRUT - FRONT SPAR             | 1                     |
|                                  | AN3-14A     | BOLT (SPAR ATTACHMENT)                        | 3                     |
|                                  | AN960-10    | WASHER                                        | 3                     |
|                                  | AN365-1032  | NUT                                           | 3                     |
| 35                               | MS21919-DF8 | CLAMP (PITOT LINES ATTACHMENT LEFT WING ONLY) | 1                     |
| 36                               | 1-9048-3    | PITOT LINE (LEFT WING ONLY)                   | 2                     |
| 37                               | 1-10105     | FITTING - JURY STRUT - REAR SPAR              | 1L                    |
|                                  | AN3-12A     | BOLT (SPAR ATTACHMENT)                        | 2                     |
|                                  | AN970-3     | WASHER                                        | 2                     |
|                                  | AN960-10    | WASHER                                        | 2                     |
|                                  | AN365-1032  | NUT                                           | 2                     |
| 38                               | 2-1972      | STRUT - COMPRESSION                           | 2                     |
|                                  | AN4-15A     | BOLT (FRONT SPAR ATTACHMENT)                  | 4                     |
|                                  | AN960-416   | WASHER                                        | 8                     |
|                                  | AN365-428   | NUT                                           | 4                     |
|                                  | AN4-12A     | BOLT (REAR SPAR ATTACHMENT)                   | 4                     |
|                                  | AN960-416L  | WASHER                                        | 4                     |
|                                  | AN365-428   | NUT                                           | 4                     |
| 39                               | 1-2595-2    | DRAG WIRE ASSEMBLY                            | 1                     |
|                                  | 1-2527-1    | WIRE - DRAG                                   | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                         | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|-------------------------------------|-----------------------|
| 28-                              | AN315-3R    | NUT                                 | 1                     |
|                                  | AN665-21R   | TERMINAL                            | 1                     |
|                                  | AN393-11    | PIN (LUG ATTACHMENT)                | 1                     |
|                                  | AN380-2-2   | COTTER PIN                          | 1                     |
|                                  | AN315-3R    | NUT (1-2301 FITTING ATTACHMENT)     | 2                     |
|                                  | AN960-10    | WASHER                              | 1                     |
| 40                               | 1-2527-2    | WIRE - DRAG                         | 1                     |
|                                  | AN315-3R    | NUT (1-2301 FITTING ATTACHMENT)     | 4                     |
|                                  | AN960-10    | WASHER                              | 2                     |
| 41                               | 2-2079-2    | DRAG WIRE ASSEMBLY                  | 2                     |
|                                  | 1-2527-1    | WIRE - DRAG                         | 4                     |
|                                  | 1-2300      | LUG (TERMINAL ATTACHMENT)           | 2                     |
|                                  | AN315-3R    | NUT                                 | 4                     |
|                                  | AN665-21R   | TERMINAL                            | 4                     |
|                                  | AN393-11    | PIN                                 | 4                     |
|                                  | AN380-2-2   | COTTER PIN                          | 4                     |
|                                  | AN315-3R    | NUT (1-2301 FITTING ATTACHMENT)     | 8                     |
|                                  | AN960-10    | WASHER                              | 4                     |
| 42                               | 1-10080     | TUBE - COMPRESSION                  | 1                     |
| 43                               | 2-1976      | FITTING - WING STRUT (FRONT SPAR)   | 1                     |
| 44                               | AN6H-20A    | BOLT (COMPRESSION TUBE ATTACHMENT)  | 1                     |
| 45                               | AN5H-17A    | BOLT (SPAR ATTACHMENT)              | 1                     |
|                                  | AN960-516   | WASHER                              | 2                     |
|                                  | AN365-528   | NUT                                 | 1                     |
| 46                               | AN5-17A     | BOLT (SPAR ATTACHMENT)              | 2                     |
|                                  | AN960-516   | WASHER                              | 4                     |
|                                  | AN365-528   | NUT                                 | 2                     |
| 47                               | 1-2289      | FITTING - WING STRUT (REAR SPAR)    | 2                     |
| 48                               | AN6H-17A    | BOLT (COMPRESSION TUBE ATTACHMENT)  | 1                     |
| 49                               | AN6H-16A    | BOLT (SPAR ATTACHMENT)              | 1                     |
|                                  | AN960-616   | WASHER                              | 1                     |
|                                  | AN365-624   | NUT                                 | 1                     |
| 50                               | 4-1516      | TRUSS - AILERON HINGE               | 1                     |
|                                  | AN4-14A     | BOLT (REAR SPAR ATTACHMENT)         | 2                     |
|                                  | AN960-416   | WASHER                              | 2                     |
|                                  | AN365-428   | NUT                                 | 2                     |
|                                  | AN3-4A      | BOLT (1-10066 BRACKET ATTACHMENT)   | 1                     |
|                                  | AN960-10    | WASHER                              | 1                     |
|                                  | AN365-1032  | NUT                                 | 1                     |
|                                  | 1-10066     | BRACKET - AILERON TRUSS ATTACHMENT  | 1                     |
|                                  | AN3-14A     | BOLT (FRONT SPAR ATTACHMENT)        | 2                     |
|                                  | AN970-3     | WASHER                              | 2                     |
|                                  | AN960-10    | WASHER                              | 2                     |
|                                  | AN365-1032  | NUT                                 | 2                     |
| 51                               | 4-1516      | TRUSS - AILERON HINGE               | 2                     |
|                                  | AN4-12A     | BOLT (REAR SPAR ATTACHMENT - UPPER) | 2                     |
|                                  | 1-2267-3    | SHIM                                | 2                     |
|                                  | AN365-428   | NUT                                 | 2                     |
|                                  | AN4-13A     | BOLT (REAR SPAR ATTACHMENT - LOWER) | 4                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                           | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|---------------------------------------|-----------------------|
| 28-                              | AN960-416   | WASHER                                | 4                     |
|                                  | AN365-428   | NUT                                   | 4                     |
|                                  | AN3-4A      | BOLT (1-10066 BRACKET ATTACHMENT)     | 2                     |
|                                  | AN960-10    | WASHER                                | 2                     |
|                                  | AN365-1032  | NUT                                   | 2                     |
|                                  | 1-10066     | BRACKET - AILERON TRUSS ATTACHMENT    | 2                     |
|                                  | AN3-14A     | BOLT (FRONT SPAR ATTACHMENT)          | 4                     |
|                                  | AN970-3     | WASHER                                | 4                     |
|                                  | AN960-10    | WASHER                                | 4                     |
|                                  | AN365-1032  | NUT                                   | 4                     |
| 52                               | 2-1973      | SUPPORT - AILERON HINGE               | 1L                    |
| 53                               | 2-1973      | SUPPORT - AILERON HINGE               | 1R                    |
| 54                               | 2-1981      | BRACE                                 | 1                     |
|                                  | AN3-12A     | BOLT (SPAR ATTACHMENT)                | 1                     |
|                                  | AN970-3     | WASHER                                | 1                     |
|                                  | AN365-1032  | NUT                                   | 1                     |
| 55                               | 5-359       | SKIN - AILERON BAY                    | 1L                    |
|                                  | AD42BS      | RIVET (RIB ATTACHMENT)                | 40                    |
| 56                               | 2-1977      | TRAILING EDGE                         | 1                     |
|                                  | AS6-4-4SS   | SCREW (RIB ATTACHMENT)                | 20                    |
| 57                               | 1-10024     | BLOCK - SKIN SUPPORT                  | 19                    |
| 58                               | 4-1519-1    | STIFFENER - LEADING EDGE              | 4                     |
| 59                               | 4-1519-2    | STIFFENER - LEADING EDGE              | 2                     |
| 60                               | 4-1737L     | SKIN - LEADING EDGE - INBOARD         | 1L                    |
| 61                               | 4-1517-2    | SKIN - LEADING EDGE (RIGHT WING ONLY) | 1R                    |
|                                  | 4-1517-5    | SKIN - LEADING EDGE (LEFT WING ONLY)  | 1L                    |
| 62                               | 4-1517-1    | SKIN - LEADING EDGE                   | 1                     |
|                                  | AD42BS      | RIVET (RIB ATTACHMENT)                | 210                   |
| 63                               | 5-366R      | RIB - AILERON SECTOR                  | 1R                    |
|                                  | 3-1430      | STIFFENER - WOOD                      | 1                     |
| 64                               | 59          | WIRE (NAV. LIGHTS)                    | 1                     |
|                                  | 122         | WIRE (NAV. LIGHTS)                    | 1                     |
| 65                               | 4-1528      | RIB - NOSE                            | 1                     |
|                                  | AC301-16-5  | NAIL (RIB ATTACHMENT)                 | 5                     |

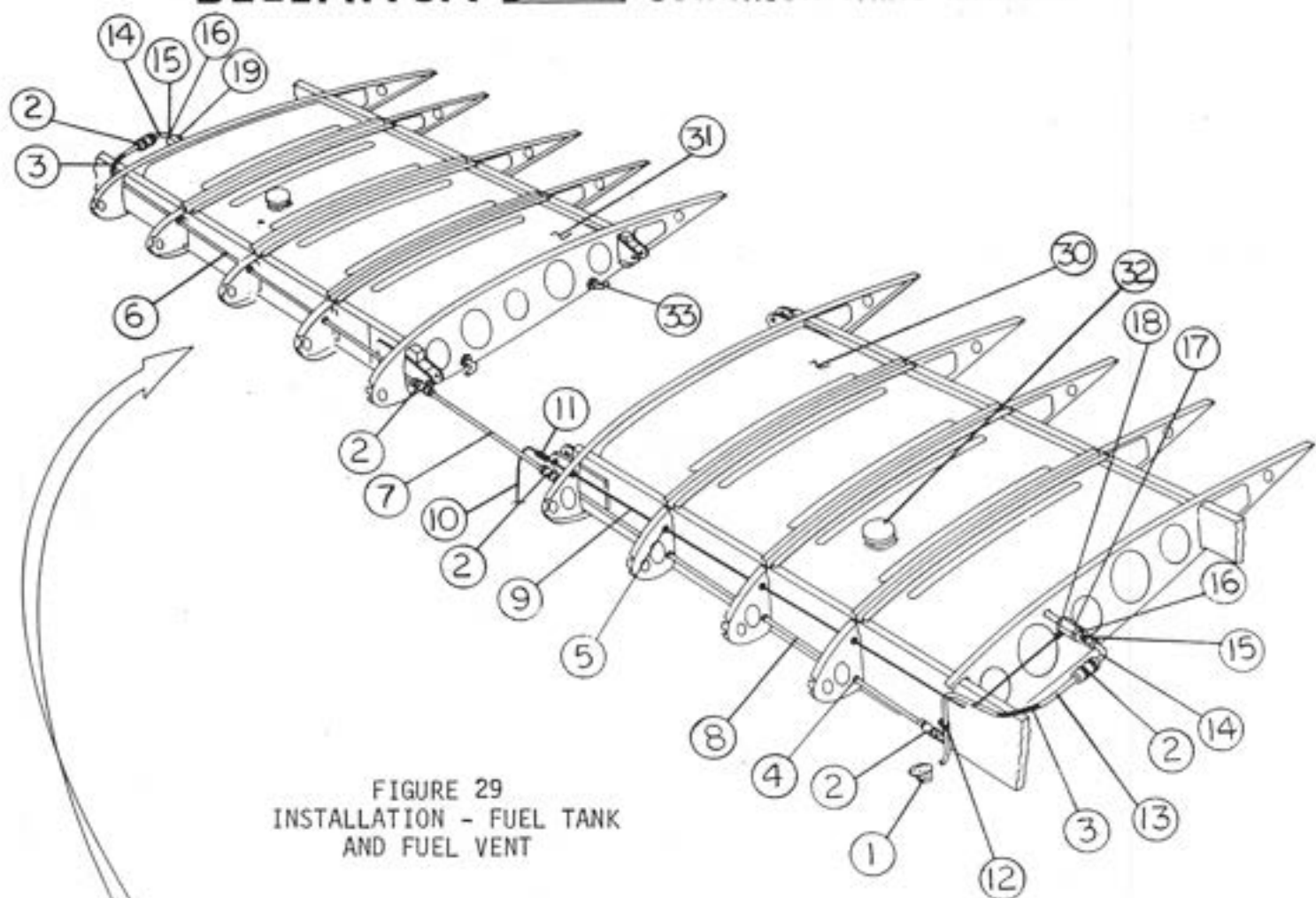
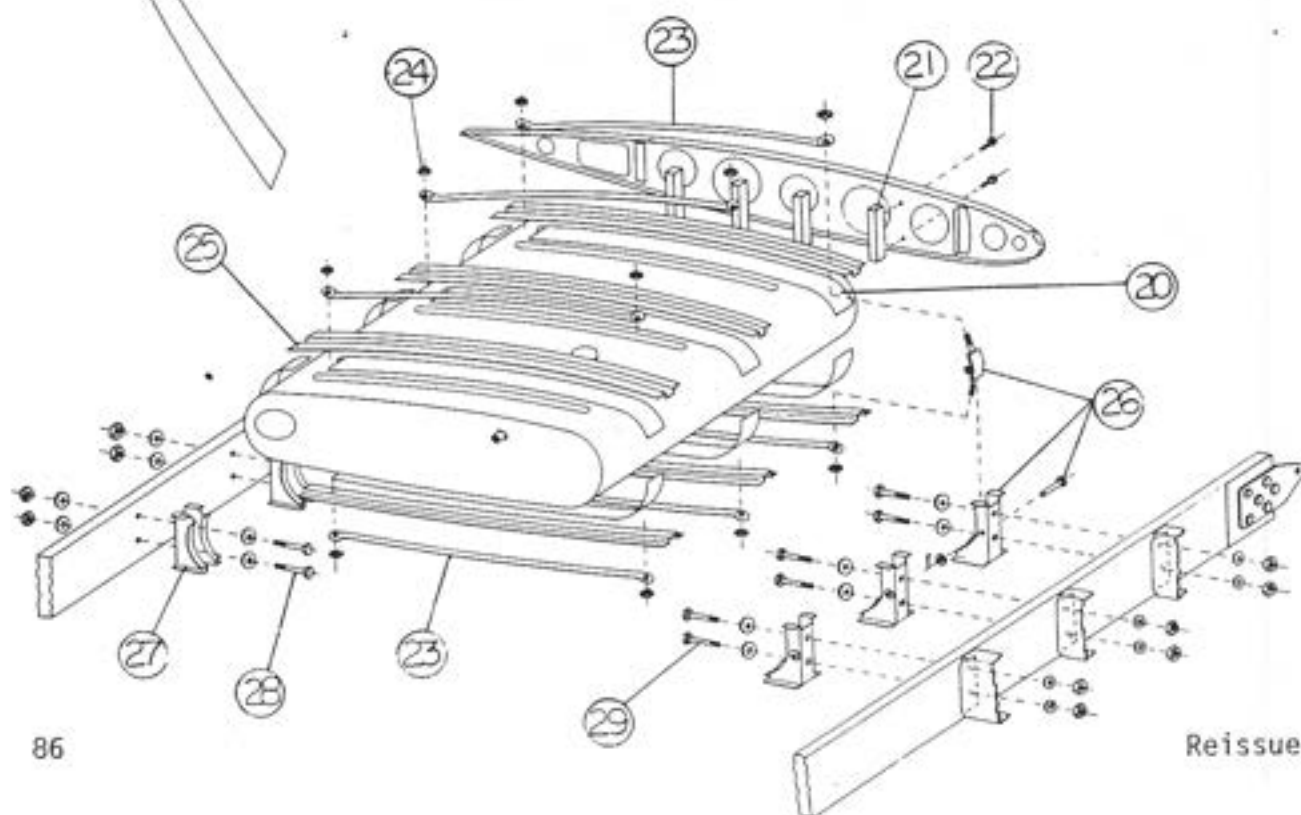


FIGURE 29  
INSTALLATION - FUEL TANK  
AND FUEL VENT





| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER         | DESCRIPTION                                                                          | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------------|--------------------------------------------------------------------------------------|-----------------------|
| 29-                              | 4-1525<br>7-1402    | DRAWING - INSTALLATION - FUEL VENT SYSTEM<br>DRAWING - INSTALLATION - WING FUEL TANK |                       |
| 1                                | 3-1509              | VENT - DEFLECTOR                                                                     | 1                     |
|                                  | AS6-4-6SS           | SCREWS                                                                               | 6                     |
| 2                                | 1-8832-4            | HOSE                                                                                 | 3                     |
|                                  | AS8-11              | CLAMP                                                                                | 6                     |
| 3                                | 4-1525-5            | TUBE - PLASTIC COVER                                                                 | 2                     |
| 4                                | AC930-1             | GROMMETS                                                                             | 11                    |
| 5                                | AN931-3-5           | GROMMETS                                                                             | 4                     |
| 6                                | 4-1525-1            | LINE - VENT                                                                          | 1                     |
| 7                                | 4-1525-2            | LINE - VENT                                                                          | 1                     |
| 8                                | 4-1525-3            | LINE - VENT                                                                          | 1                     |
| 9                                | 4-1525-6            | LINE - VENT - HEADER                                                                 | 1                     |
| 10                               | 7-1414-5            | TUBE                                                                                 | 1                     |
| 11                               | 62F 1/4 x 1/8       | FITTING                                                                              | 1                     |
| 12                               | MS21919-DF6         | CLAMP                                                                                | 1                     |
|                                  | AN3-14A             | BOLT                                                                                 | 1                     |
|                                  | AN970-3             | WASHER                                                                               | 1                     |
|                                  | AN365-1032          | NUT                                                                                  | 1                     |
| 13                               | 2-1938              | VENT ASSEMBLY                                                                        | 1                     |
| 15                               | 113B 1/4 x<br>1 1/2 | NIPPLE                                                                               | 2                     |
| 16                               | 2-2164-1            | ASSEMBLY CHECK VALVE (LEFT WING)                                                     | 1                     |
|                                  | 1-9808-1            | BODY (ALUMINUM)                                                                      | 1                     |
|                                  | 1-9839              | CHECK VALVE                                                                          | 1                     |
|                                  | 68F 1/4 x 1/8       | FITTING (BRASS)                                                                      | 1                     |
|                                  | AN816-6D            | FITTING (ALUMINUM)                                                                   | 1                     |
| 17                               | 2-2164-2            | ASSEMBLY CHECK VALVE (RIGHT WING)                                                    | 1                     |
|                                  | 1-9808-2            | BODY (ALUMINUM)                                                                      | 1                     |
|                                  | 1-9839              | CHECK VALVE                                                                          | 1                     |
|                                  | AN816-6D            | FITTING (ALUMINUM)                                                                   | 1                     |
| 20                               | 7-1402-1            | RUBBER CHAFE STRIP                                                                   | 6                     |
| 21                               | 1-10074             | SPACER                                                                               | 16                    |
| 22                               | AS6-6-8SS           | SCREW                                                                                | 16                    |
| 23                               | 2-761-9             | STRAP                                                                                | 12                    |
| 24                               | AN365-1032          | NUT                                                                                  | 24                    |
| 25                               | 4-1496              | CHANNEL                                                                              | 12                    |
| 26                               | 2-2062-1            | SUPPORT ASSEMBLY                                                                     | 6                     |
|                                  | 2-1958              | SUPPORT                                                                              | 6                     |
|                                  | 1-9884              | FITTING                                                                              | 6                     |
|                                  | AN393-37            | PIN                                                                                  | 6                     |
|                                  | AN960-10L           | WASHER                                                                               | 6                     |
|                                  | AN380-2-2           | KEY                                                                                  | 6                     |
| 27                               | 2-2062-2            | SUPPORT ASSEMBLY                                                                     | 6                     |
|                                  | 2-1959              | SUPPORT                                                                              | 6                     |
|                                  | 1-9884              | FITTING                                                                              | 6                     |
|                                  | AN393-37            | PIN                                                                                  | 6                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION       | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|-------------------|-----------------------|
| 29-                              | AN960-10L   | WASHER            | 6                     |
|                                  | AN380-2-2   | KEY               | 6                     |
| 28                               | AN3-12A     | BOLT              | 12                    |
|                                  | AN365-1032  | NUT               | 12                    |
|                                  | AN970-3     | WASHER            | 24                    |
| 29                               | AN3-14A     | BOLT              | 12                    |
|                                  | AN365-1032  | NUT               | 12                    |
|                                  | AN970-3     | WASHER            | 12                    |
|                                  | AN960-10    | WASHER            | 12                    |
| 30                               | 7-1403-1    | FUEL TANK - L/H   | 1L                    |
|                                  | AN932-2     | DRAIN PLUG        | 1                     |
| 31                               | 7-1403-1    | FUEL TANK - R/H   | 1R                    |
|                                  | AN932-2     | DRAIN PLUG        | 1                     |
| 32                               | 1-8768-4    | FUEL CAP ASSEMBLY | 2                     |
|                                  | 1-2593-2    | CAP               | 2                     |
|                                  | 1-8767-6    | DECAL             | 2                     |
|                                  | 1-10408     | GASKET            | 2                     |
| 33                               | 1-10338     | ELBOW             | 4                     |

| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION                               | UNITS PER ASS'Y |
|-------------------------|-------------|-------------------------------------------|-----------------|
| 30-                     | 7-1405      | DRAWING - WING COVERING                   |                 |
| 1                       | 7-1405-1    | FABRIC - DACRON                           | A/R             |
| 2                       | 7-1405-2    | TAPE - 2"                                 | A/R             |
| 3                       | 7-1405-3    | TAPE - 3"                                 | A/R             |
| 4                       | 7-1405-4    | TAPE - 1"                                 | A/R             |
| 5                       | 7-1405-5    | #2024 CHEESE CLOTH                        | A/R             |
| 6                       | 1-268-9     | PATCH - FILLER NECK                       | 1               |
| 7                       | 1-268-2     | PATCH - 3"                                | 2               |
| 8                       | 1-268-10    | PATCH - ATTACHMENT BOLT                   | 2               |
| 9                       | 1-268-1     | PATCH - 6"                                | 11              |
| 10                      | 1-9976      | WASHER                                    | 1               |
| 11                      | 1-2661      | WASHER                                    | 1               |
|                         | 1-2686      | PATCH (OVER 1-2661 WASHER)                | 1               |
| 12                      | 1-268-8     | PATCH - VENT TUBE                         | 1               |
| 13                      | 1-617       | WASHER                                    | 10              |
| 14                      | 3-639       | COVER                                     | 4               |
| 15                      | 1-2688      | PATCH - JURY STRUT                        | 1               |
| 16                      | 1-2690      | PATCH - JURY STRUT                        | 1               |
| 17                      | 1-10019     | WASHER                                    | 1               |
| 18                      | 1-2444-4    | PATCH                                     | 2               |
| 19                      | 1-10134     | WASHER                                    | 1               |
| 20                      | 1-268-13    | PATCH (NOT REQ'D WITH REMOVABLE WING TIP) | 1               |
| 21                      | 2-2098-1    | PATCH                                     | 1               |
| 22                      | 2-2098-2    | PATCH                                     | 1               |
| 23                      | AD42BSLF    | RIVET - FABRIC ATTACHMENT                 | A/R             |
|                         | EC847       | ADHESIVE - FABRIC ATTACHMENT              | A/R             |
|                         | 1357        | ADHESIVE - FABRIC ATTACHMENT              | A/R             |

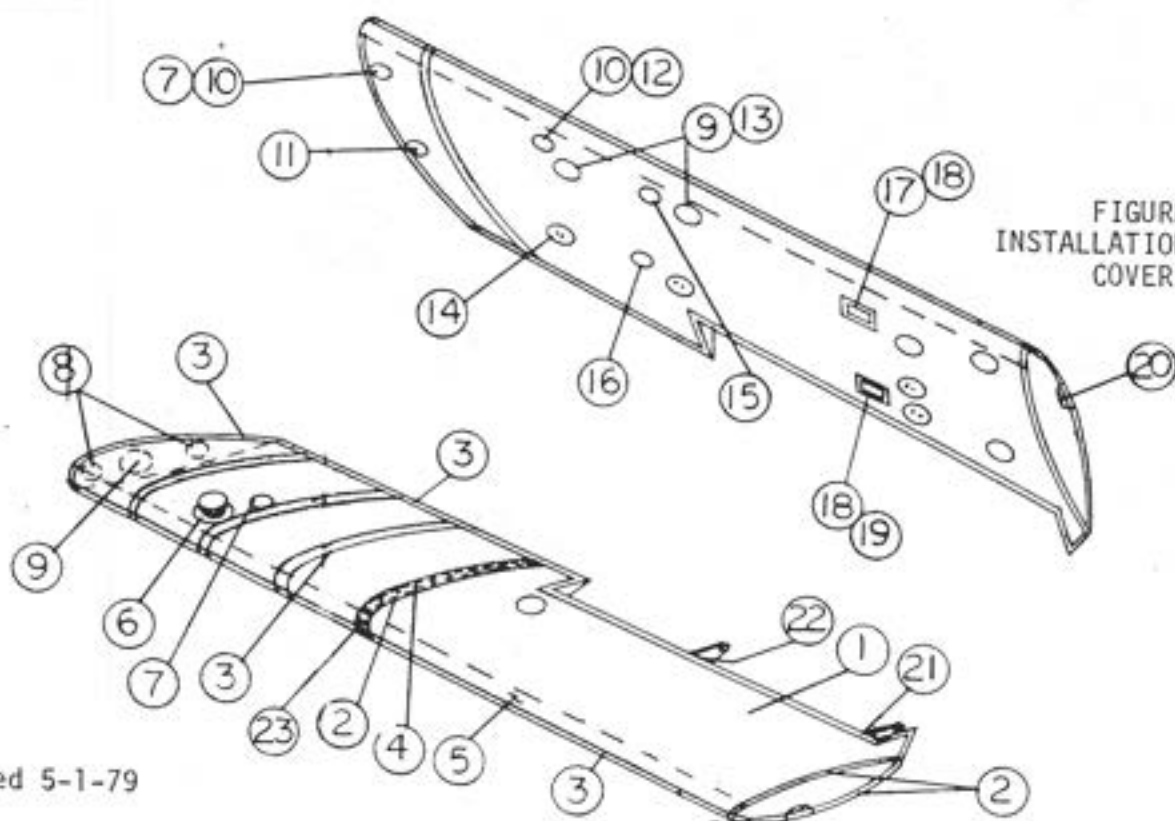
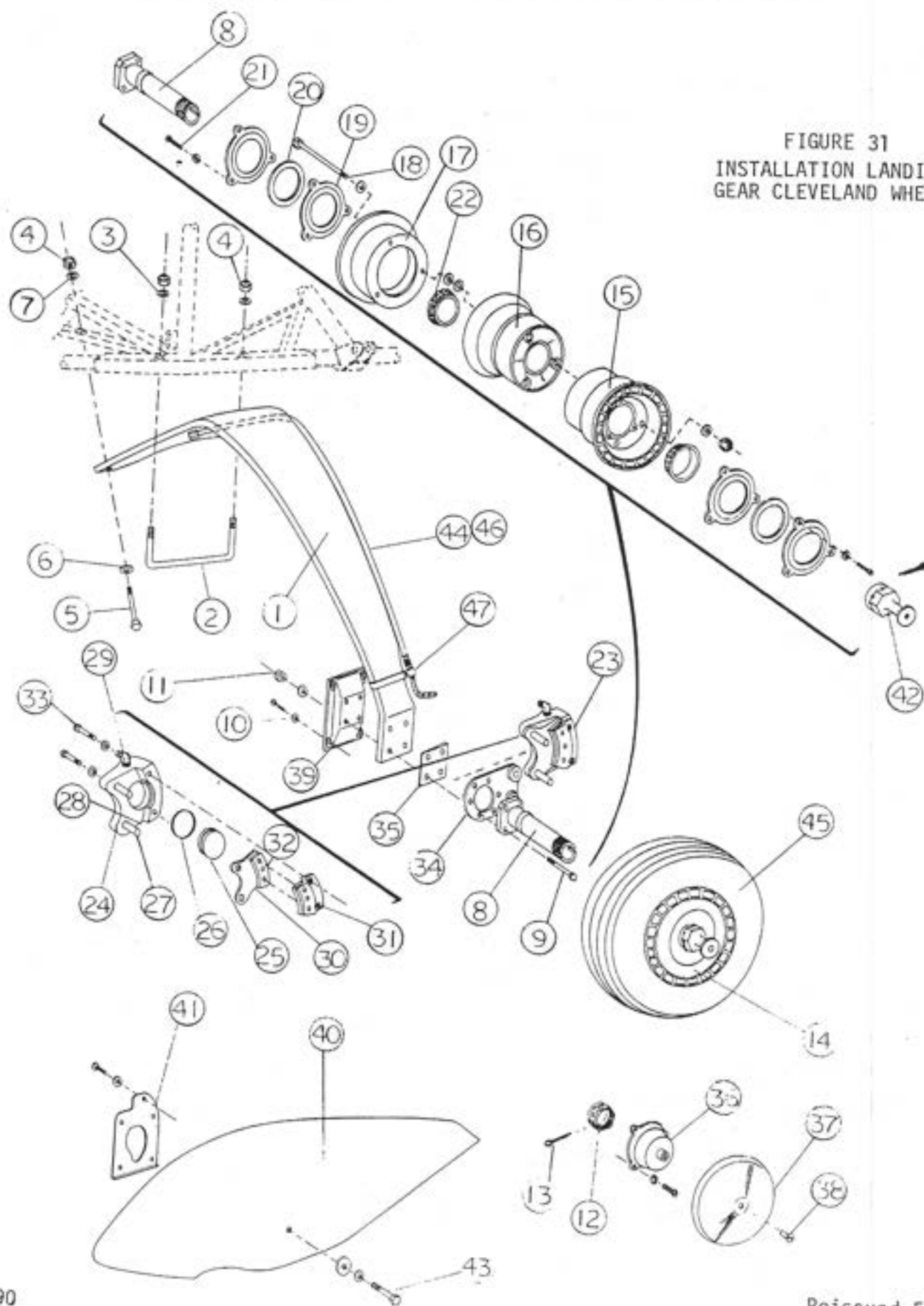


FIGURE 30  
INSTALLATION - WING  
COVERING



FIGURE 31  
INSTALLATION LANDING  
GEAR CLEVELAND WHEELS





| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER                       | DESCRIPTION                                                               | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-----------------------------------|---------------------------------------------------------------------------|-----------------------|
| 31-                              | 4-1474<br>7-1307                  | DRAWING - INSTALLATION WHEEL PANTS<br>DRAWING - INSTALLATION LANDING GEAR |                       |
| 1                                | 7-1404                            | GEAR LEG                                                                  | 1L/1R                 |
| 2                                | 1-9805                            | "U" BOLT                                                                  | 2                     |
| 3                                | MS20002-7                         | WASHER                                                                    | 4                     |
| 4                                | ZEB1845-070                       | NUT                                                                       | 6                     |
| 5                                | MS20007-32                        | BOLT                                                                      | 2                     |
| 6                                | MS20002C7                         | WASHER (UNDER BOLT HEAD)                                                  | 2                     |
| 7                                | MS20002-7                         | WASHER (UNDER NUT)                                                        | 4                     |
| 8                                | 3-1600                            | AXLE - ASSEMBLY                                                           | 2                     |
| 9                                | AN5-14A or 15A                    | BOLT - ATTACHMENT                                                         | 8                     |
| 10                               | AN960-516                         | WASHER                                                                    | 8                     |
| 11                               | AN365-524                         | NUT                                                                       | 8                     |
| 12                               | 1-10538                           | NUT (REQ'D WITHOUT WHEEL PANTS)                                           | 2                     |
| 13                               | AN380-4-8                         | COTTER PIN                                                                | 2                     |
| 14                               | 40-28D<br>(040-02804)             | WHEEL ASSEMBLY - CLEVELAND                                                | 2                     |
| 15                               | 3041A<br>(162-00600)              | OUTER WHEEL HALF ASSEMBLY                                                 | 1                     |
|                                  | 13836<br>(214-00100)              | CUP BEARING                                                               | 1                     |
| 16                               | 161-16<br>(161-01600)             | INNER WHEEL HALF ASSEMBLY                                                 | 1                     |
|                                  | 13836<br>(214-00100)              | CUP BEARING                                                               | 1                     |
| 17                               | 164-5<br>(164-00500)              | BRAKE DISC ASSEMBLY                                                       | 1                     |
| 18                               | AN4-36A<br>AN365-428<br>AN960-416 | BOLT (WHEEL HALF ATTACHMENT)<br>NUT<br>WASHER                             | 3<br>3<br>3           |
| 19                               | B39094<br>(153-00500)             | RING - GREASE SEAL                                                        | 4                     |
| 20                               | 39092<br>(154-00500)              | FELT - GREASE SEAL                                                        | 2                     |
| 21                               | 832 x 1/2"<br>(102-05100)         | SCREW                                                                     | 6                     |
|                                  | 1208<br>(095-15100)               | LOCK WASHER                                                               | 6                     |
| 22                               | 13889<br>(214-00200)              | CONE - BEARING                                                            | 2                     |
| 23                               | 30-19A<br>(030-01901)             | BRAKE ASSEMBLY - CLEVELAND                                                | 2                     |
| 24                               | 61-6<br>(061-00200)               | CYLINDER - BRAKE                                                          | 1                     |
| 25                               | 3002<br>(062-00300)               | PISTON                                                                    | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER              | DESCRIPTION                           | UNITS<br>PER<br>ASS'Y |
|----------------------------------|--------------------------|---------------------------------------|-----------------------|
| 31-26                            | AN6227-23<br>(101-02300) | "O" RING                              | 1                     |
| 27                               | 3013<br>(069-00200)      | BOLT - ANCHOR                         | 2                     |
|                                  | AN960-616L               | WASHER                                | 2                     |
|                                  | AN364-624                | NUT                                   | 2                     |
| 28                               | FC6446<br>(079-00300)    | SCREW - BLEEDER                       | 1                     |
|                                  | 37-206<br>(081-00100)    | SEAT - BLEEDER                        | 1                     |
|                                  | 183-1<br>(183-00100)     | CAP - BLEEDER (RUBBER)                | 1                     |
| 29                               | AN823-4D                 | ELBOW 45°                             | 1                     |
| 30                               | 63-5<br>(063-00500)      | PLATE - PRESSURE                      | 1                     |
|                                  | 3006<br>(066-00200)      | LINING                                | 1                     |
|                                  | 561<br>(105-00200)       | RIVETS                                | 3                     |
| 31                               | 3012<br>(064-00500)      | PLATE - BACK                          | 1                     |
|                                  | 3006<br>(066-00200)      | LINING                                | 1                     |
|                                  | 561<br>(105-00200)       | RIVET                                 | 3                     |
| 32                               | 68-4<br>(068-00400)      | SHIM                                  | 1                     |
| 33                               | AN4H-15A<br>(103-12100)  | BOLT                                  | 2                     |
|                                  | AN960-416L               | WASHER                                | 2                     |
| 34                               | 75-49                    | TORQUE PLATE ASSEMBLY                 | 2                     |
| 35                               | 1-9888-1                 | SHIM (AS NECESSARY FOR CAMBER ANGLE)  | 1                     |
| 36                               | 38520A                   | CAP - HUB (AS REQ'D W/O WHEEL PANTS)  | 2                     |
| 37                               | A38550                   | SHIELD - DUST (REQ'D W/O WHEEL PANTS) | 2                     |
| 38                               | 10-24 x 1/2"             | SCREW (REQ'D W/O WHEEL PANTS)         | 2                     |
| 39                               | 2-1961                   | BRACKET - WHEEL PANTS                 | 1L/1R                 |
| 40                               | 7-1301                   | WHEEL PANT                            | 1L/1R                 |
| 41                               | 2-1945                   | COVER                                 | 1L/1R                 |
|                                  | AN936-A8                 | WASHER                                | 6                     |
|                                  | AN526-832-8              | SCREW (COVER ATTACHMENT)              | 6                     |
|                                  | AN526-1032-10            | SCREW (PANT ATTACHMENT)               | 8                     |
|                                  | AN960-10L                | WASHER                                | 8                     |
| 42                               | 1-9858                   | WHEEL NUT (WHEEL PANT INSTALLATION)   | 2                     |
| 43                               | AN5-5A<br>1-10555        | BOLT (PANT ATTACHMENT) OUTBOARD       | 2                     |
|                                  | 1-10292                  | WASHER                                | 2                     |
| 44                               | 601000-4-0080            | BRAKE LINE ASSEMBLY                   | 2                     |
|                                  | AN815-4D                 | HOSE ASSEMBLY - FLEXIBLE              | 2                     |
|                                  |                          | UNION                                 | 2                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER                            | PART NUMBER    | DESCRIPTION                                    | UNITS<br>PER<br>ASS'Y |
|-------------------------------------------------------------|----------------|------------------------------------------------|-----------------------|
| 31-45                                                       | 600 x 6, 4 PLY | TIRE AND TUBE, TYPE III                        | 2                     |
|                                                             | 600 x 6, 6 PLY | TIRE AND TUBE, TYPE III                        | 2                     |
|                                                             | 700 x 6, 6 PLY | TIRE AND TUBE, TYPE III                        | 2                     |
|                                                             | 800 x 6, 4 PLY | TIRE AND TUBE, UNIROYAL                        | 2                     |
|                                                             | 850 x 6, 4 PLY | TIRE AND TUBE, UNIROYAL                        | 2                     |
| 46                                                          | 2-2133-1       | BRAKE LINE (REQ'D FOR WRAPAROUND INSTALLATION) | 2                     |
| 47                                                          | 1-10280-1      | BRACKET                                        | 2                     |
|                                                             | AN526-832-10   | SCREW                                          | 2                     |
|                                                             | AN365-832      | NUT                                            | 2                     |
| <p>*NOTE: SEE SERVICE MANUAL FOR TIRE SIZE LIMITATIONS.</p> |                |                                                |                       |

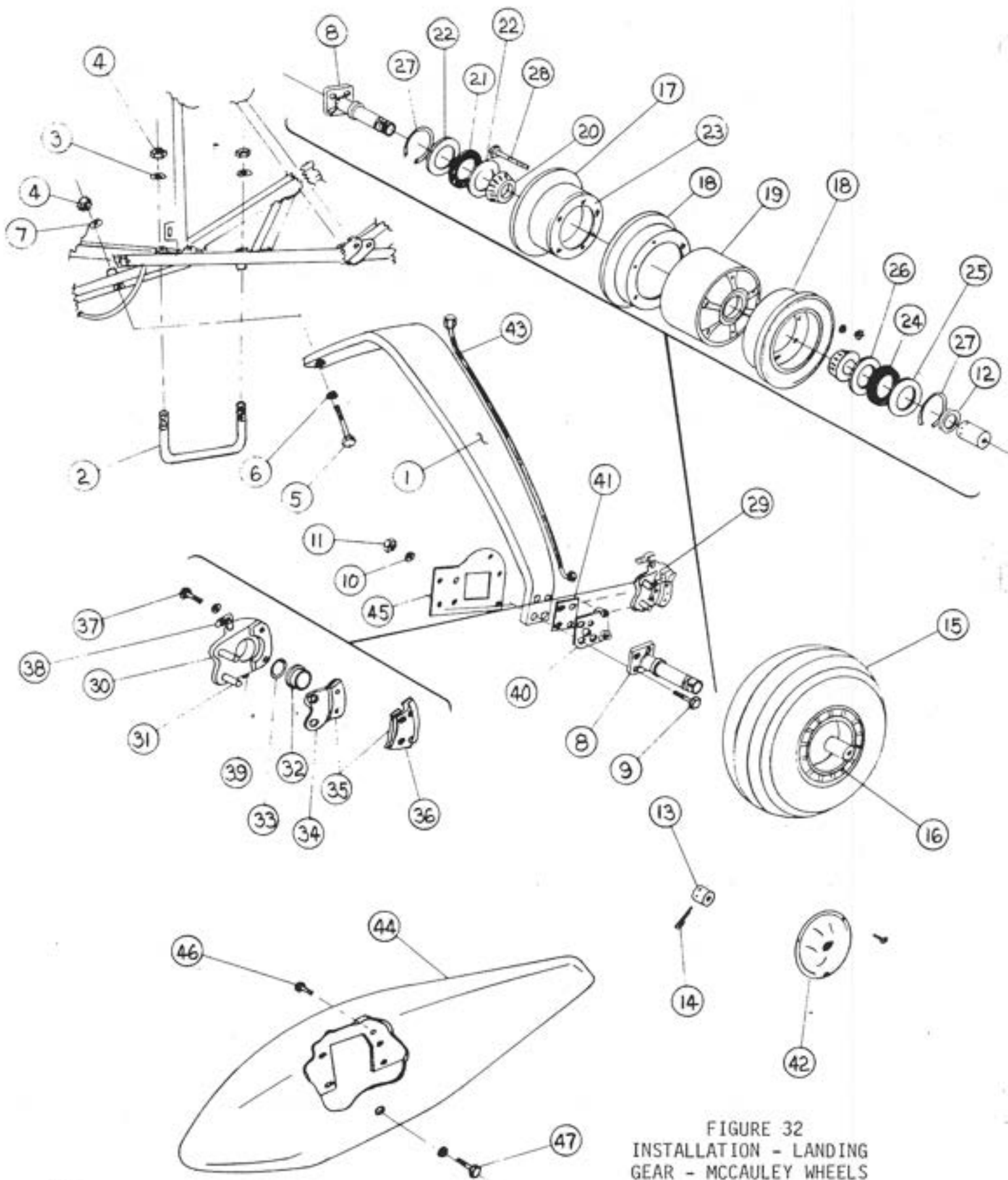


FIGURE 32  
INSTALLATION - LANDING  
GEAR - MCCAULEY WHEELS

Reissued 5-1-79



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER      | DESCRIPTION                                                               | UNITS<br>PER<br>ASS'Y |
|----------------------------------|------------------|---------------------------------------------------------------------------|-----------------------|
| 32-                              | 4-1583<br>7-1307 | DRAWING - INSTALLATION WHEEL PANTS<br>DRAWING - INSTALLATION LANDING GEAR |                       |
| 1                                | 7-1291           | GEAR LEG (STRAIGHT LOWER END)                                             | 1L/1R                 |
| 2                                | 7-1404           | GEAR LEG (RADIUS LOWER END)                                               | 1L/1R                 |
| 3                                | 1-9805           | "U" BOLT                                                                  | 2                     |
| 4                                | AN960-716        | WASHER                                                                    | 4                     |
| 5                                | ZEB1845-070      | NUT                                                                       | 6                     |
| 6                                | MS20005-34       | BOLT                                                                      | 2                     |
| 7                                | MS20002C7        | WASHER (UNDER BOLT HEAD)                                                  | 2                     |
| 8                                | MS20002-7        | WASHER (UNDER NUT)                                                        | 4                     |
| 9                                | 2-2041           | AXLE ASSEMBLY                                                             | 2                     |
| 10                               | AN5-13A          | BOLT - AXLE ATTACHMENT                                                    | 8                     |
| 11                               | AN960-516        | WASHER                                                                    | 8                     |
| 12                               | AN365-524        | NUT                                                                       | 8                     |
| 13                               | 1-9947-1         | SPACER - AXLE NUT                                                         | 2                     |
| 14                               | 1-706            | NUT - WHEEL (REQ'D W/O WHEEL PANTS)                                       | 2                     |
| 15                               | AN380-4-8        | COTTER PIN                                                                | 2                     |
|                                  | 600 x 6, 4 PLY   | TIRE & TUBE, TYPE III                                                     | 2                     |
|                                  | 600 x 6, 6 PLY   | TIRE & TUBE, TYPE III                                                     | 2                     |
|                                  | 700 x 6, 6 PLY   | TIRE & TUBE, TYPE III                                                     | 2                     |
|                                  | 800 x 6, 4 PLY   | TIRE & TUBE, UNIROYAL                                                     | 2                     |
|                                  | 850 x 6, 4 PLY   | TIRE & TUBE, UNIROYAL                                                     | 2                     |
|                                  |                  | NOTE: SEE SERVICE MANUAL FOR TIRE SIZE<br>LIMITATIONS.                    |                       |
| 16                               | D30063           | ASSEMBLY WHEEL (MCCAULEY)                                                 | 2                     |
| 17                               | B-30007          | ASSEMBLY - DISC                                                           | 1                     |
| 18                               | D-30062          | FLANGE WHEEL                                                              | 2                     |
| 19                               | D-30066          | HUB - WHEEL                                                               | 1                     |
|                                  | A-30079-1        | CUP - BEARING                                                             | 2                     |
| 20                               | A-30079-2        | CONE - BEARING                                                            | 2                     |
| 21                               | A30011           | FELT SEAL                                                                 | 1                     |
| 22                               | A30013           | RETAINER - FELT                                                           | 2                     |
| 23                               | B30076           | SPACER - PLASTIC                                                          | 2                     |
| 24                               | A30010           | FELT SEAL                                                                 | 1                     |
| 25                               | A30014           | RETAINER - FELT - OUTER                                                   | 1                     |
| 26                               | A30015           | RETAINER - FELT - INNER                                                   | 1                     |
| 27                               | A-1636-24        | RETAINING RING                                                            | 1                     |
| 28                               | A-2513-50        | BOLT                                                                      | 6                     |
|                                  | A-1638-15        | WASHER                                                                    | 12                    |
|                                  | A-1639-26        | NUT                                                                       | 6                     |
| 29                               | C-30018-1        | BRAKE ASSEMBLY - MCCAULEY                                                 | 2                     |
| 30                               | C-30041          | CYLINDER                                                                  | 1                     |
| 31                               | A-30023          | GUIDE PIN                                                                 | 2                     |
|                                  | A-1638-15        | WASHER                                                                    | 2                     |
|                                  | A-1639-26        | NUT                                                                       | 2                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER          | DESCRIPTION                          | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------------|--------------------------------------|-----------------------|
| 32-32                            | B-30022              | PISTON                               | 1                     |
| 33                               | A-1633-45            | "O" RING                             | 1                     |
| 34                               | B-30025              | PRESSURE PLATE                       | 1                     |
| 35                               | B-30026              | LINING - BRAKE                       | 2                     |
|                                  | A-30087              | RIVET                                | 4                     |
| 36                               | C-30028              | BACK PLATE                           | 1                     |
| 37                               | A-2513-49            | BOLT                                 | 2                     |
|                                  | A-1638-15            | WASHER                               | 2                     |
| 38                               | AN832-4D             | ELBOW - BRAKE LINE                   | 1                     |
| 39                               | A-30030              | BLEEDER FITTING                      | 1                     |
|                                  | A-30085              | SCREW - BLEEDER                      | 1                     |
|                                  | A-30040              | CAP - DUST                           | 1                     |
| 40                               | B-30166              | TORQUE PLATE ASSEMBLY                | 2                     |
| 41                               | 1-9888-1             | SHIM (AS NECESSARY FOR CAMBER ANGLE) | 2                     |
| 42                               |                      | COVER - DUST (REQ'D W/O WHEEL PANTS) | 2                     |
|                                  |                      | SCREW - DUST COVER ATTACHMENT        | 6                     |
| 43                               | 1-9855               | BRAKE LINE ASSEMBLY                  | 2                     |
| 44                               | 7-1301-2             | WHEEL PANTS                          | 1L/1R                 |
| 45                               | 3-1502-1             | BRACKET ASSEMBLY                     | 1L/1R                 |
| 46                               | AN526-1032-10        | SCREW                                | 10                    |
| 47                               | 5/16 x 5/8 -<br>NC-2 | BOLT (PANT ATTACHMENT)               | 2                     |
|                                  | AN936-A516           | WASHER                               | 2                     |

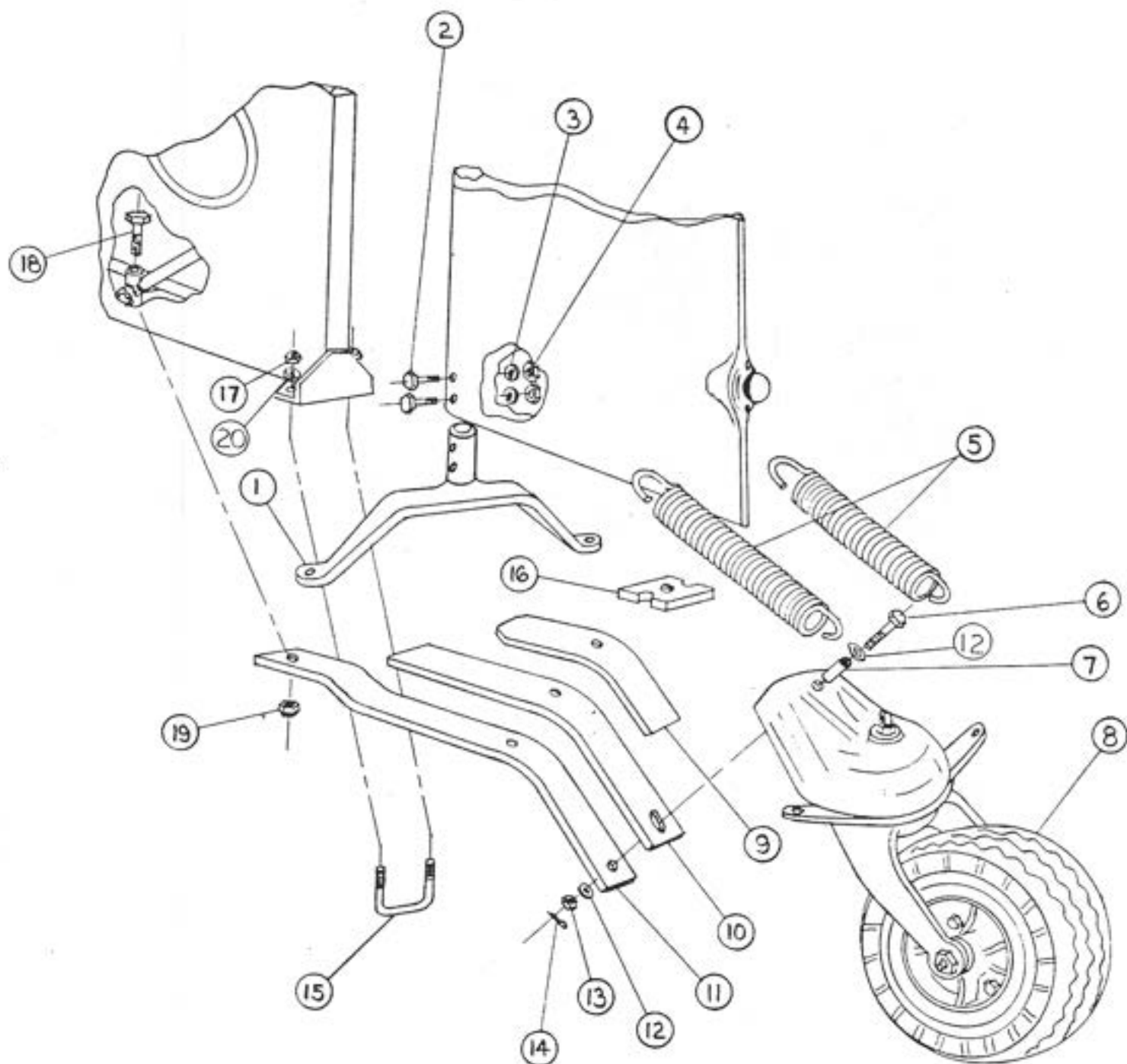


FIGURE 33  
INSTALLATION - TAIL WHEEL



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                  | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|----------------------------------------------|-----------------------|
| 33-                              | 4-1080      | DRAWING - INSTALLATION SCOTT TAIL WHEEL      |                       |
| 1                                | 3-10012     | ARM - TAIL WHEEL                             | 1                     |
| 2                                | AN3-13A     | BOLT                                         | 2                     |
| 3                                | AN960-10    | WASHER                                       | 4                     |
| 4                                | AN365-1032  | NUT                                          | 2                     |
| 5                                | 2-1525      | SPRING                                       | 2                     |
| 6                                | AN7-20      | BOLT                                         | 1                     |
| 7                                | 1-8971      | BUSHING                                      | 1                     |
| 8                                | 3200        | TAIL WHEEL - SCOTT                           | 1                     |
| 9                                | 3-1543-3    | SPRING                                       | 1                     |
| 10                               | 3-1543-2    | SPRING                                       | 1                     |
| 11                               | 3-1543-1    | SPRING                                       | 1                     |
| 12                               | AN960-716   | WASHER                                       | 2                     |
| 13                               | AN310-7     | NUT                                          | 1                     |
| 14                               | AN380-3-4   | COTTER KEY                                   | 1                     |
| 15                               | 1-10325     | "U" BOLT (FOR USE WITH 1-557-1 RUBBER PAD)   | 1                     |
|                                  | 1-10589     | "U" BOLT (FOR USE WITH 1-10537 ALUMINUM PAD) | 1                     |
| 16                               | 1-557-1     | PAD (RUBBER BELTED)                          | 1                     |
|                                  | 1-10537     | PAD (ALUMINUM)                               | 1                     |
| 17                               | AN365-524   | NUT                                          | 2                     |
| 18                               | AN6-22A     | BOLT                                         | 1                     |
| 19                               | AN365-624   | NUT                                          | 1                     |
| 20                               | AN960-516   | WASHER                                       | 2                     |

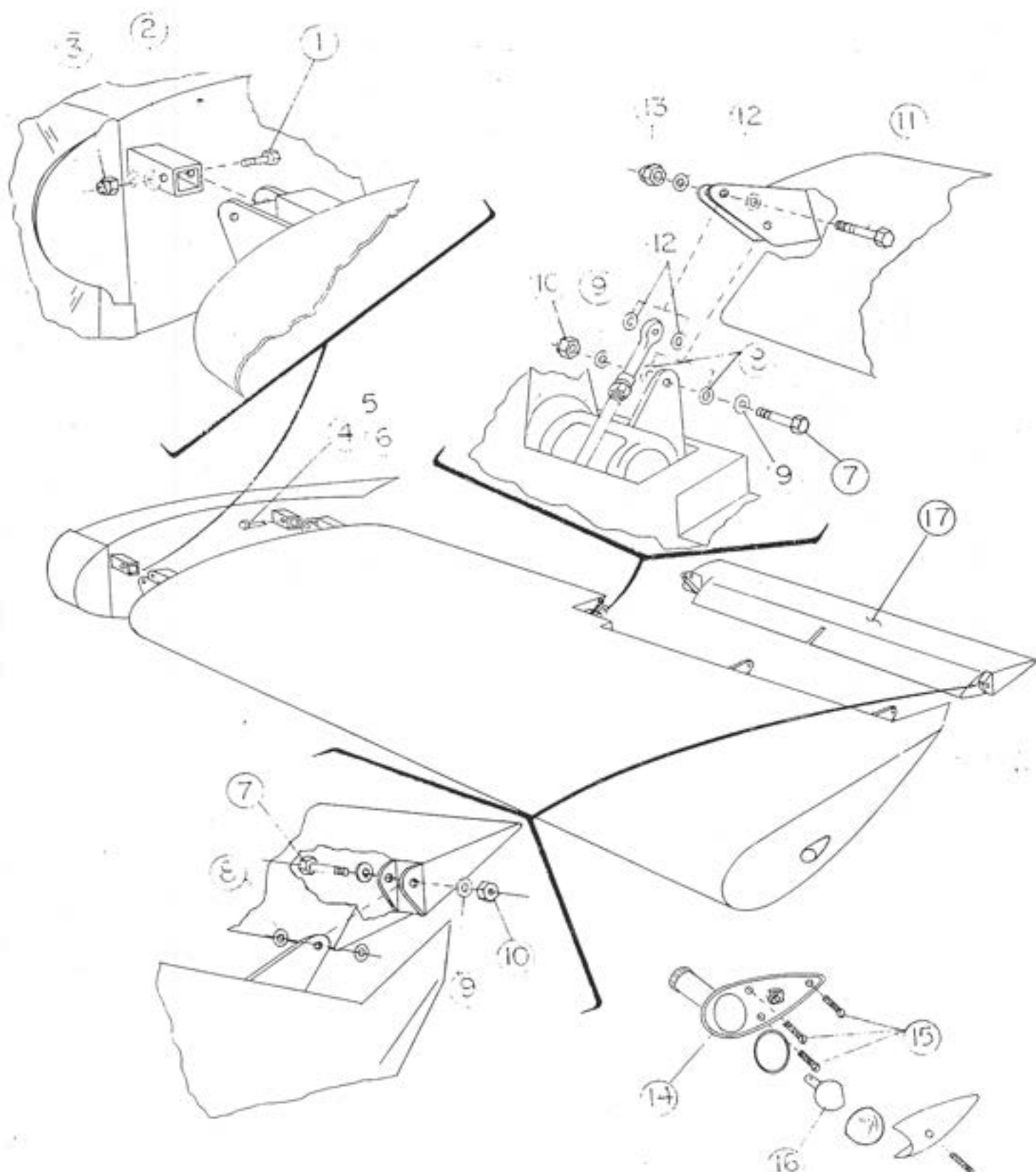


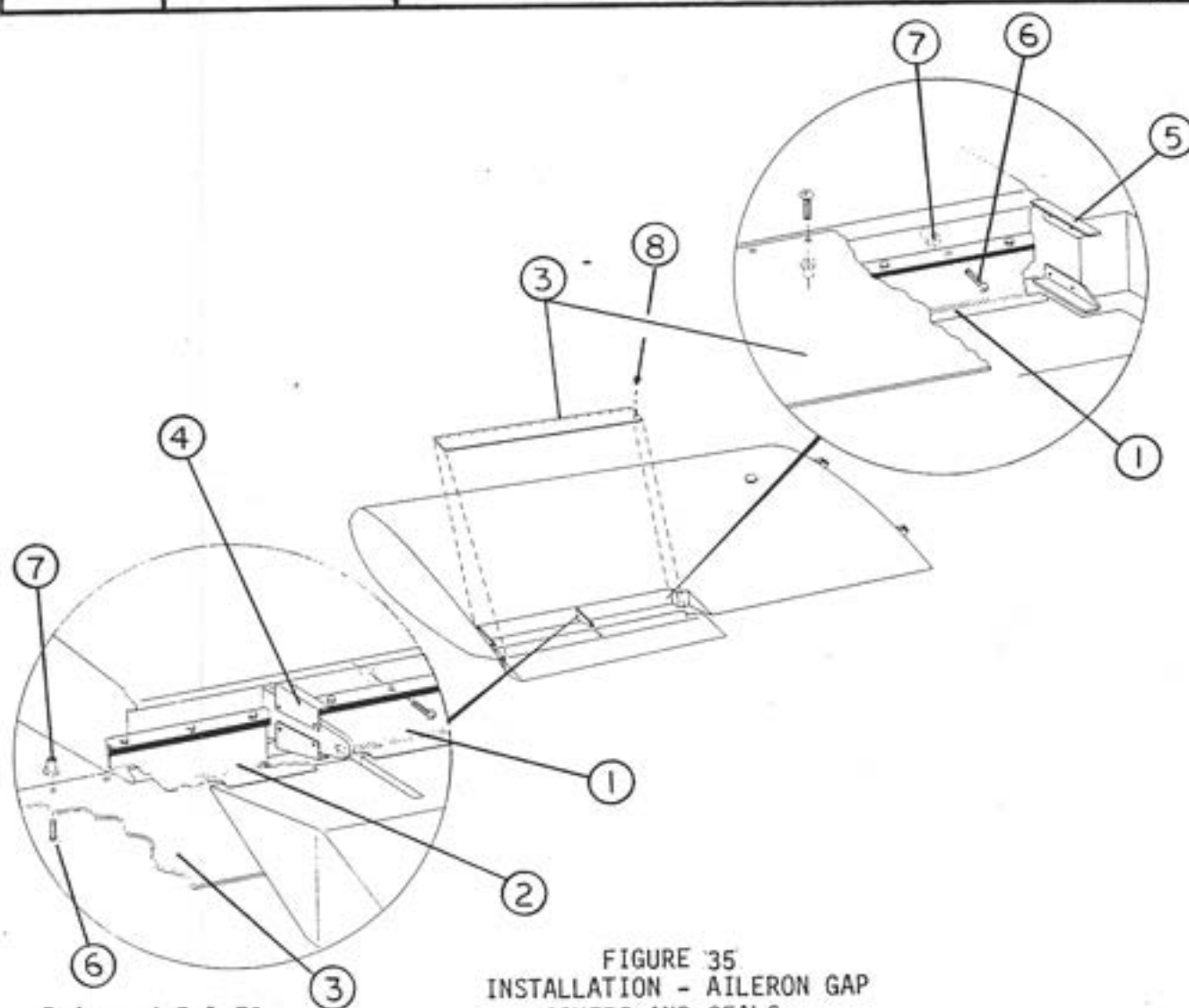
FIGURE 34  
INSTALLATION - WING AND AILERON



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                                     | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|-----------------------------------------------------------------|-----------------------|
| 34-                              | 7-1520      | DRAWING - INSTALLATION WINGS AND STRUTS                         |                       |
|                                  |             | <u>NOTE:</u> PART LISTED ARE FOR ONE WING<br>INSTALLATION ONLY) |                       |
| 1                                | AN7-17A     | BOLT                                                            | 1                     |
| 2                                | AN960-716   | WASHER                                                          | 2                     |
| 3                                | AN365-720   | NUT                                                             | 1                     |
| 4                                | AN4-13A     | BOLT                                                            | 1                     |
| 5                                | AN960-416   | WASHER                                                          | 1                     |
| 6                                | AN365-428   | NUT                                                             | 1                     |
| 7                                | AN4-11      | BOLT                                                            | 3                     |
| 8                                | 1-2576      | BUSHING                                                         | 6                     |
| 9                                | AN960-416   | WASHER                                                          | 6                     |
| 10                               | AN365-428   | NUT                                                             | 3                     |
| 11                               | AN3-10A     | BOLT                                                            | 1                     |
| 12                               | AN960-10L   | WASHER                                                          | 4                     |
|                                  | AN960-10    | WASHER                                                          | 2                     |
| 13                               | AN365-1032  | NUT                                                             | 1                     |
| 14                               | AN3033-3    | LIGHT ASSEMBLY (LESS STROBE LIGHTS)                             | 1                     |
|                                  | AN3033-4    | LIGHT ASSEMBLY (LESS STROBE LIGHTS)                             | 1                     |
| 15                               | AN504-6-5   | SCREW                                                           | 3                     |
| 16                               | AN3122-1512 | BULB                                                            | 1                     |
| 17                               | 4-1533      | AILERON - COVERED                                               | 1L/1R                 |
|                                  | 5-351       | AILERON - FRAME                                                 | 1L/1R                 |



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION                                                 | UNITS PER ASS'Y |
|-------------------------|-------------|-------------------------------------------------------------|-----------------|
| 35-                     | 4-1538      | DRAWING - INSTALLATION AILERON GAP COVERS AND SEALS         |                 |
| 1                       | 3-1441-1    | AILERON - SEAL INBOARD                                      | 2L/2R           |
| 2                       | 3-1441-2    | AILERON - SEAL INBOARD                                      | 2L/2R           |
| 3                       | 2-2007      | COVER - AILERON GAP                                         | 4               |
| 4                       | 1-10129-1   | ANGLE                                                       | 2L/2R           |
|                         | 1601-0410   | RIVET                                                       | 8               |
| 5                       | 1-10130     | ANGLE                                                       | 4L/4R           |
|                         | 1601-0410   | RIVET                                                       | 16              |
| 6                       | AN526-832-8 | SCREW                                                       | 122             |
| 7                       | B-832       | NUT                                                         | 122             |
| 8                       | AS6-6-6SS   | SCREW - ATTACHMENT - GAP COVER TO ANGLE                     | 12              |
| 9                       | RTV         | SILICONE SEALANT - TO SEAL GAP SEAL TO AILERON (NOT LISTED) | AS REQ'D        |



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FIGURE 35  
INSTALLATION - AILERON GAP  
COVERS AND SEALS

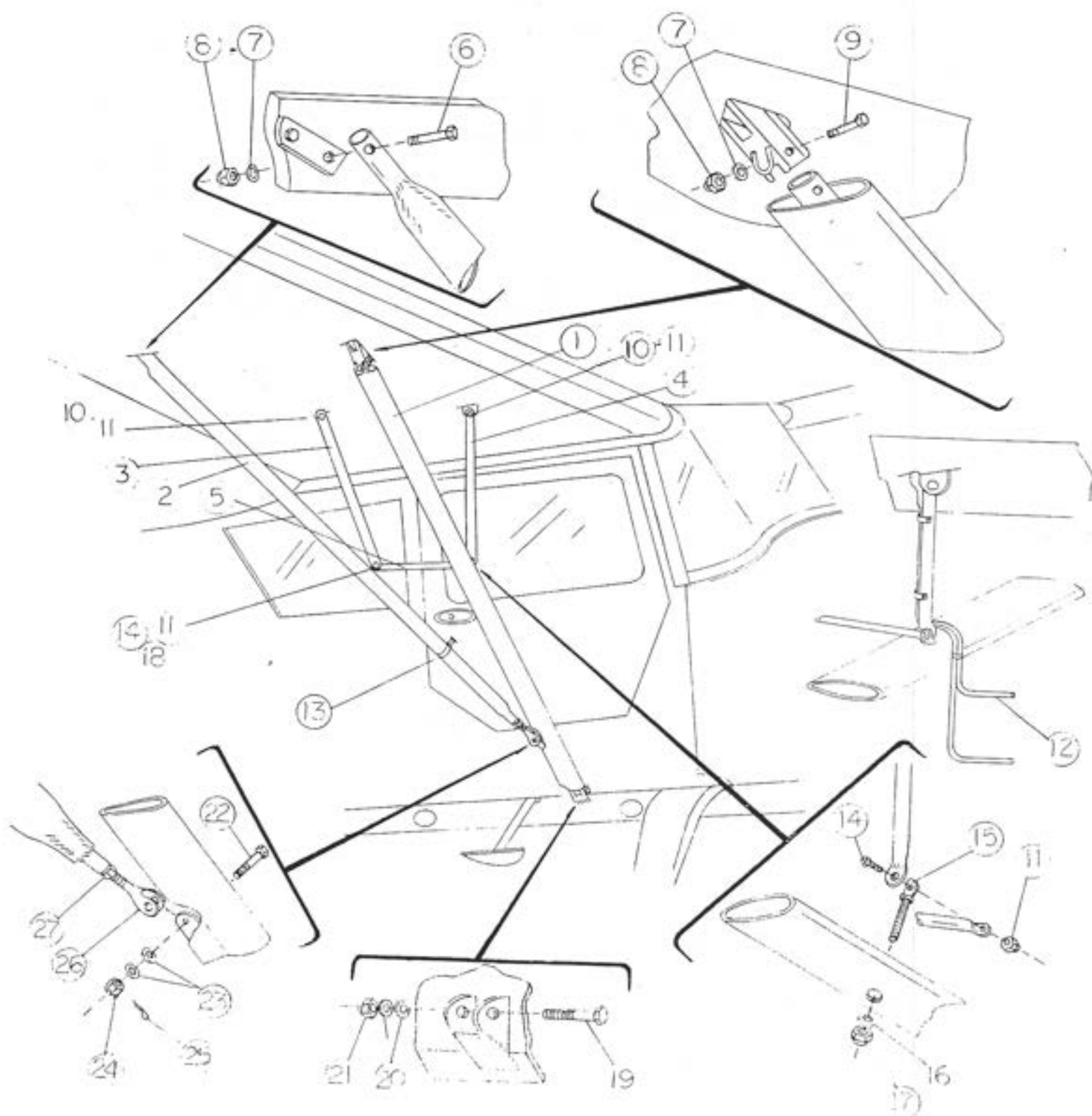


FIGURE 36  
INSTALLATION - WING STRUTS

Reissued 5-1-79



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER                                                                                                   | DESCRIPTION                                 | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------|
| 36-                              | 7-1520                                                                                                        | DRAWING - INSTALLATION - WINGS AND STRUTS   |                       |
|                                  |                                                                                                               | <u>NOTE:</u> PARTS LISTED ARE PER AIRPLANE  |                       |
| 1                                | 5-368                                                                                                         | STRUT - WING BRACE, FRONT                   | 2                     |
| 2                                | 4-1535                                                                                                        | STRUT - WING BRACE, REAR                    | 2                     |
| 3                                | 1-2315                                                                                                        | STRUT - REAR JURY                           | 2                     |
| 4                                | 1-2314                                                                                                        | STRUT - FRONT JURY                          | 2                     |
| 5                                | 1-10106                                                                                                       | SPREADER - JURY STRUT                       | 2                     |
| 6                                | AN6-25A                                                                                                       | BOLT                                        | 2                     |
| 7                                | AN960-616                                                                                                     | WASHER                                      | 4                     |
| 8                                | AN365-624                                                                                                     | NUT                                         | 4                     |
| 9                                | AN6-20A                                                                                                       | BOLT                                        | 2                     |
| 10                               | AN3-4A                                                                                                        | BOLT (UPPER JURY STRUT ATTACHMENT)          | 4                     |
| 11                               | AN365-1032                                                                                                    | NUT (JURY STRUT ATTACHMENT)                 | 10                    |
| 12                               | *3-1471                                                                                                       | PITOT MAST - (LEFT WING ONLY) (IF EQUIPPED) | 1                     |
|                                  | AS6-4-4SS                                                                                                     | SCREW                                       | 2                     |
| 13                               | 1-10135                                                                                                       | DOOR STOP                                   | 1                     |
|                                  | AN515-8-8                                                                                                     | SCREW                                       | 1                     |
|                                  | AN365-832                                                                                                     | NUT                                         | 1                     |
| 14                               | AN3-5A                                                                                                        | BOLT (LOWER JURY STRUT ATTACHMENT)          | 4                     |
| 15                               | AN43B-24A                                                                                                     | EYE BOLT                                    | 2                     |
| 16                               | AN960-416                                                                                                     | WASHER                                      | 2                     |
| 17                               | AN365-428                                                                                                     | NUT                                         | 2                     |
| 18                               | AN42B-17A                                                                                                     | EYE BOLT                                    | 2                     |
| 19                               | AN7-16A                                                                                                       | BOLT                                        | 2                     |
| 20                               | AN960-716                                                                                                     | WASHER                                      | 4                     |
| 21                               | AN365-720                                                                                                     | NUT                                         | 2                     |
| 22                               | AN5-10                                                                                                        | BOLT                                        | 2                     |
| 23                               | AN960-516                                                                                                     | WASHER                                      | 4                     |
| 24                               | AN310-5                                                                                                       | NUT                                         | 2                     |
| 25                               | AN380-2-3                                                                                                     | KEY                                         | 2                     |
| 26                               | 1-2543                                                                                                        | FITTING                                     | 2                     |
| 27                               | AN316-8R                                                                                                      | NUT                                         | 2                     |
|                                  | *LATER MODELS EQUIPPED WITH SIDE FUSELAGE STATIC AND WING PITOT. SEE FIGURE 14 FOR PARTS LISTING AND DIAGRAM. |                                             |                       |

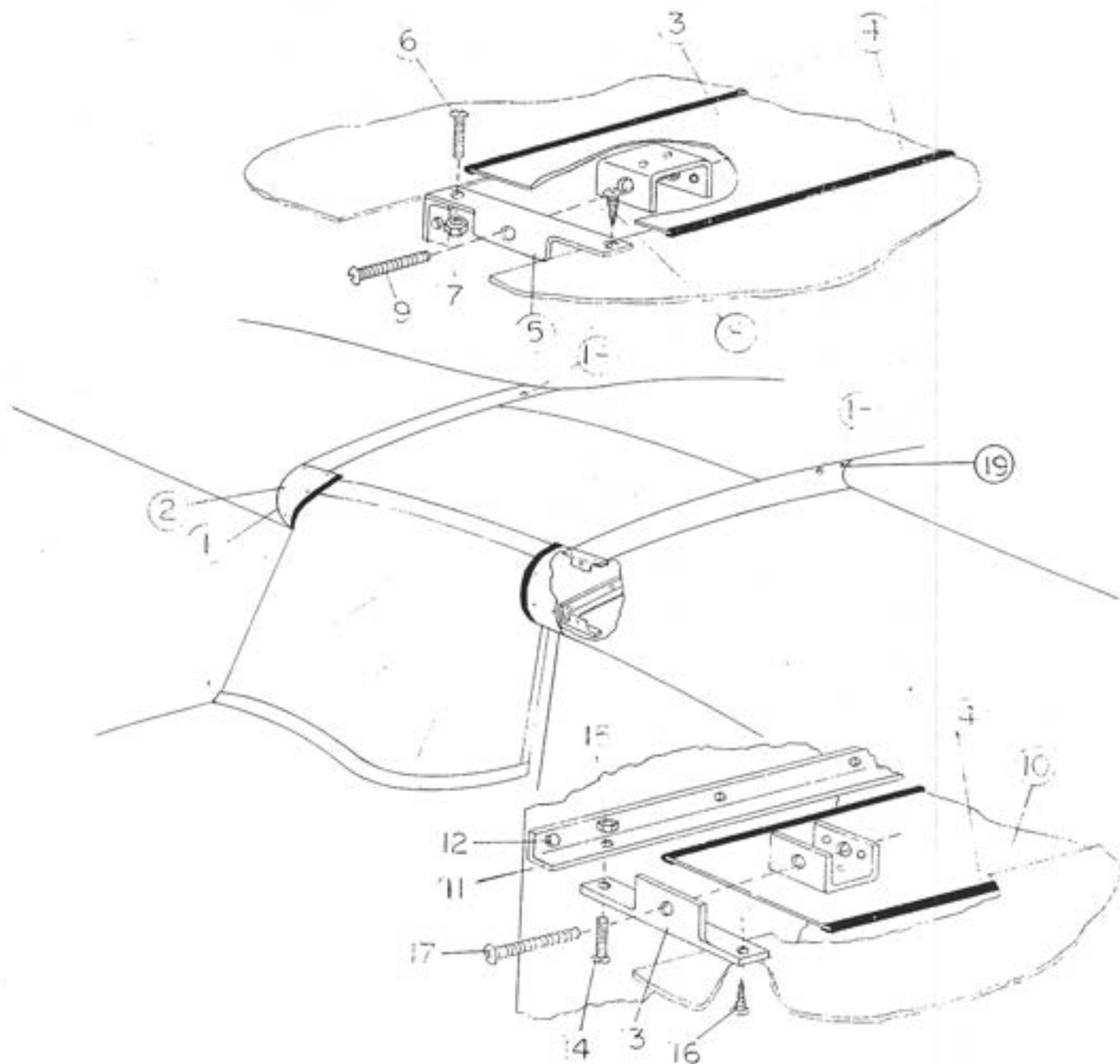


FIGURE 37  
INSTALLATION - WING GAP COVERS  
PRE 1978 MODELS



| FIGURE<br>AND<br>INDEX<br>NUMBER                      | PART NUMBER  | DESCRIPTION                                                                 | UNITS<br>PER<br>ASS'Y |
|-------------------------------------------------------|--------------|-----------------------------------------------------------------------------|-----------------------|
| 37-                                                   | 4-1537       | *DRAWING - INSTALLATION GAP COVER<br><br>APPLICABLE 1977 AND EARLIER MODELS |                       |
| 1                                                     | 4-1553       | GAP COVER - FRONT                                                           | 1L/1R                 |
| 2                                                     | AS6-6-6SS    | SCREW (ATTACHMENT)                                                          | 14                    |
| 3                                                     | 3-1448       | GAP COVER - TOP                                                             | 1L/1R                 |
| 4                                                     | 175          | RUBBER EXTRUSION                                                            | A/R                   |
| 5                                                     | 1-10146      | ANGLE                                                                       | 2                     |
| 6                                                     | AN526-832-10 | SCREW (ATTACHMENT - FUSELAGE CLIP)                                          | 2                     |
| 7                                                     | AN365-832    | NUT                                                                         | 2                     |
| 8                                                     | AS6-6-8SS    | SCREW (ATTACHMENT - ANGLE TO WING)                                          | 2                     |
| 9                                                     | AN520-10-44  | SCREW (ATTACHMENT - ANGLE TO GAP COVER)                                     | 2                     |
| 10                                                    | 3-1449       | GAP COVER - BOTTOM                                                          | 1L/1R                 |
| 11                                                    | 2-2008       | ANGLE                                                                       | 1L/1R                 |
| 12                                                    | S8-75        | RIVNUT (ATTACHMENT - FUSELAGE)                                              | 8                     |
|                                                       | AN3-3A       | BOLT (ATTACHMENT - ANGLE TO RIVNUT)                                         | 8                     |
|                                                       | AN936A10     | WASHER                                                                      | 8                     |
| 13                                                    | 1-10146      | ANGLE                                                                       | 2                     |
| 14                                                    | AN526-832-8  | SCREW (ATTACHMENT - ANGLE TO ANGLE)                                         | 2                     |
| 15                                                    | AN365-832    | NUT                                                                         | 2                     |
| 16                                                    | AS6-6-8SS    | SCREW (ATTACHMENT - ANGLE TO WING)                                          | 2                     |
| 17                                                    | AN520-10-40  | SCREW (ATTACHMENT - ANGLE TO GAP COVER)                                     | 2                     |
| 18                                                    | AN526-832-8  | SCREW (ATTACHMENT - GAP COVER TO FUSELAGE)                                  | 2                     |
|                                                       | C814-832-1   | NUT                                                                         | 2                     |
| 19                                                    | AS6-6-8SS    | SCREW                                                                       | 2                     |
| *SEE FIGURE 38 FOR GAP COVERS FOR 1978 MODELS AND UP. |              |                                                                             |                       |



| FIGURE AND INDEX NUMBER | PART NUMBER | DESCRIPTION                            | UNITS PER ASS'Y |
|-------------------------|-------------|----------------------------------------|-----------------|
| 38-                     | 4-1739      | DRAWING - INSTALLATION LOWER GAP COVER |                 |
| 1                       | 1-10640     | RUBBER EXTRUSION                       | AS REQ'D        |
| 2                       | 3-1615      | ANGLE - INBOARD                        | 1L/1R           |
| 3                       | AN3-3A      | BOLT                                   | 8               |
|                         | AN960-10L   | WASHER                                 | 8               |
|                         | AN936A10    | LOCK WASHER                            | 8               |
| 4                       | 1-10624     | RUBBER STRIP                           | 2               |
| 5                       | 4-1738      | LOWER GAP COVER                        | 1L/1R           |
| 6                       | AN526-832-8 | SCREW (COVER TO ANGLE ATTACHMENT)      | 10              |
| 7                       | #175        | EXTRUSION (INBOARD)                    | AS REQ'D        |
| 8                       | 3-1614      | TRACK (OUTBOARD)                       | 1L/1R           |
| 9                       | 1601-0410   | RIVETS                                 | 26              |
| 10                      | AN526-632-5 | SCREW                                  | 4               |
|                         | AN364-632C  | NUT                                    | 4               |

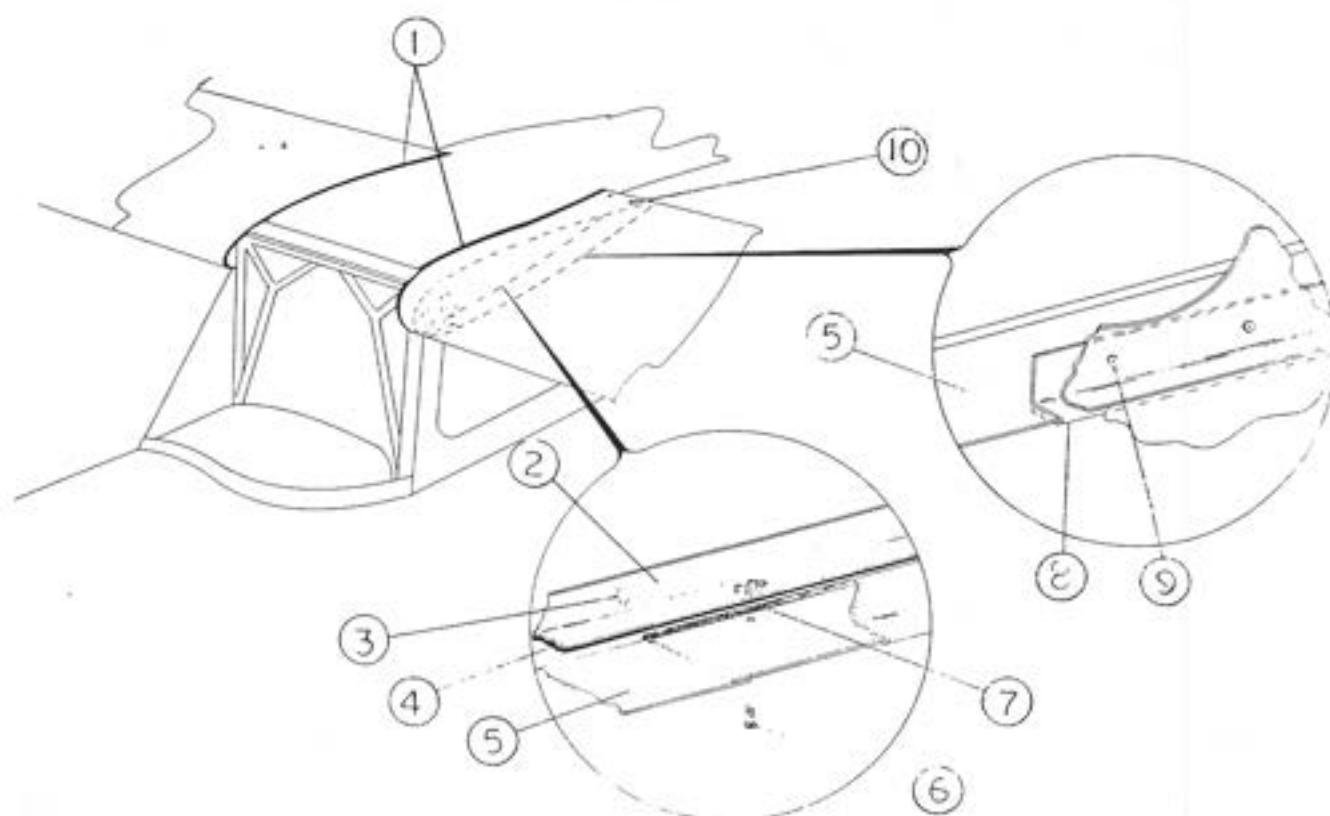
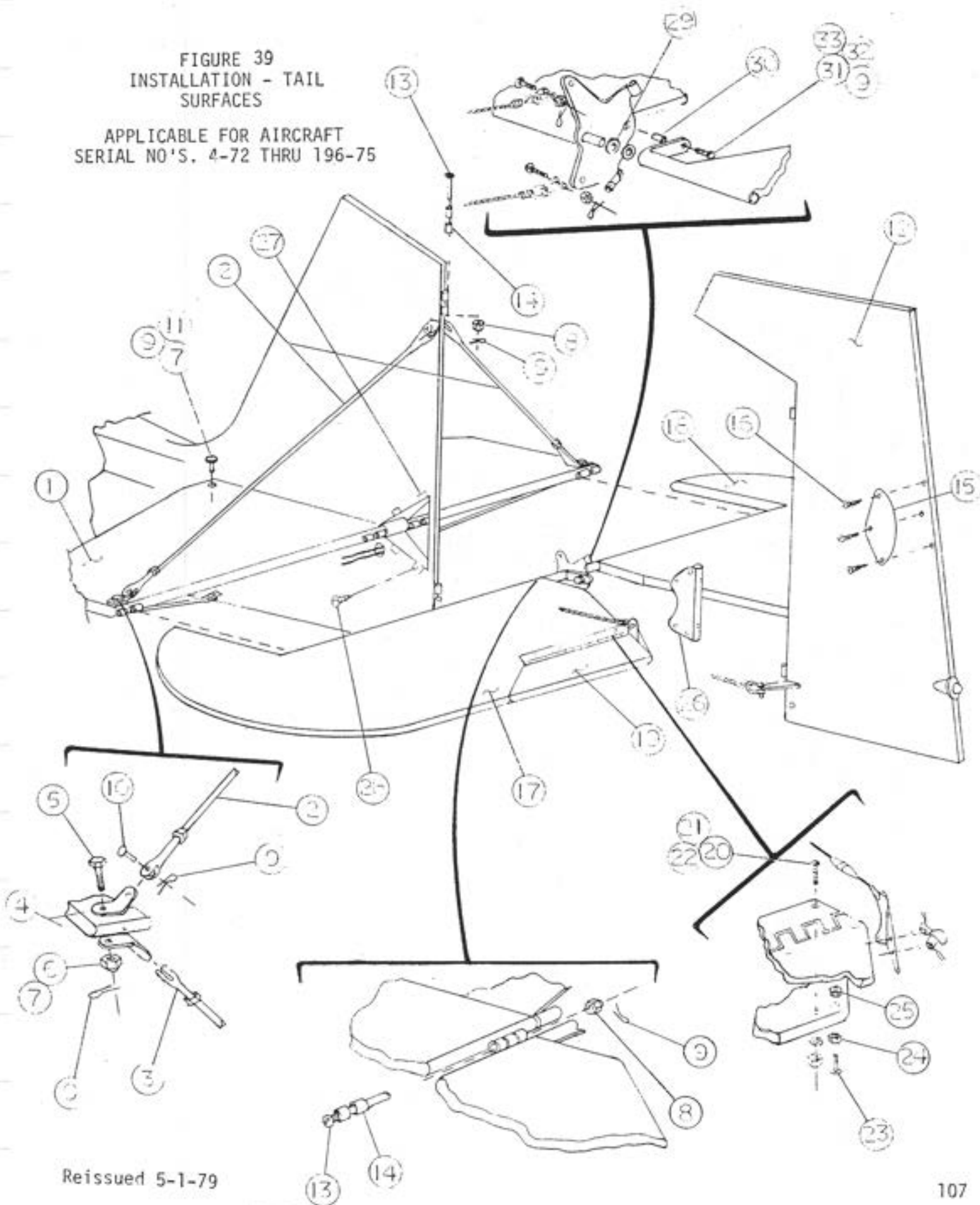


FIGURE 38  
INSTALLATION GAP COVERS 1978 AND LATER MODELS

Reissued 5-1-79

FIGURE 39  
INSTALLATION - TAIL  
SURFACES

APPLICABLE FOR AIRCRAFT  
SERIAL NO'S. 4-72 THRU 196-75

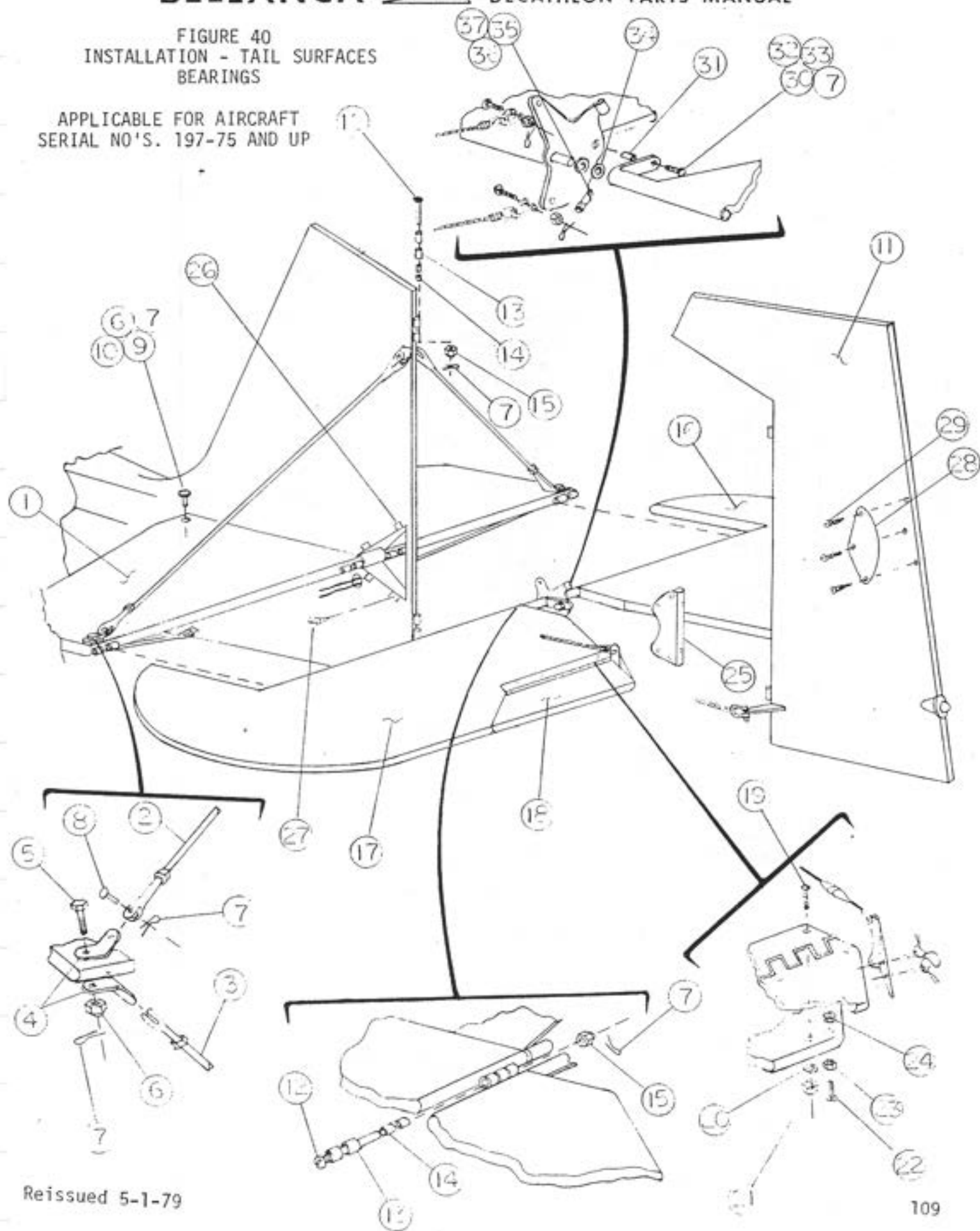




| FIGURE<br>AND<br>INDEX<br>NUMBER                                                            | PART NUMBER  | DESCRIPTION                                       | UNITS<br>PER<br>ASS'Y |
|---------------------------------------------------------------------------------------------|--------------|---------------------------------------------------|-----------------------|
| 39-                                                                                         | 7-1501       | DRAWING - INSTALLATION TAIL SURFACES              |                       |
| 1                                                                                           | 4-1481       | STABILIZER - COVERED                              | 1L/1R                 |
|                                                                                             | 4-1478       | STABILIZER - FRAME                                | 1                     |
| 2                                                                                           | 2-1746-4     | STABILIZER - DRAG WIRE ASSEMBLY - UPPER           | 2                     |
| 3                                                                                           | 3-1107-2     | STABILIZER - DRAG WIRE ASSEMBLY - LOWER           | 2                     |
| 4                                                                                           | 1-2357       | LUG - DRAG WIRE                                   | 4                     |
| 5                                                                                           | AN3-15       | BOLT                                              | 2                     |
| 6                                                                                           | AN960-10     | WASHER                                            | 2                     |
| 7                                                                                           | AN310-3      | NUT                                               | 4                     |
| 8                                                                                           | AN320-3      | NUT                                               | 6                     |
| 9                                                                                           | AN380-2-2    | KEY                                               | 21                    |
| 10                                                                                          | AN393-11     | PIN                                               | 8                     |
| 11                                                                                          | AN3-13       | BOLT                                              | 2                     |
| 12                                                                                          | 4-1390       | RUDDER - COVERED                                  | 1                     |
|                                                                                             | 4-1548       | RUDDER - COVERED (USE WITH RUDDER MOUNTED BEACON) | 1                     |
|                                                                                             | 4-1376       | RUDDER - COVERED                                  | 1                     |
|                                                                                             | 4-1546       | RUDDER FRAME (USE WITH RUDDER MOUNTED BEACON)     | 1                     |
| 13                                                                                          | AN23-40      | BOLT                                              | 6                     |
| 14                                                                                          | 1-3737-1     | BUSHINGS                                          | 18                    |
| 15                                                                                          | 1-2190       | RUDDER TAB                                        | 1                     |
| 16                                                                                          | AS6-4-4SS    | SCREW - ATTACHMENT                                | 3                     |
| 17                                                                                          | 4-1483-7     | ELEVATOR - COVERED (LEFT)                         | 1                     |
|                                                                                             | 4-1480       | ELEVATOR FRAME (LEFT)                             | 1                     |
| 18                                                                                          | 4-1482-7     | ELEVATOR - COVERED (RIGHT)                        | 1                     |
|                                                                                             | 4-1479-8     | ELEVATOR FRAME (RIGHT)                            | 1                     |
| 19                                                                                          | 4-562        | ELEVATOR TAB                                      | 1                     |
| 20                                                                                          | AN515-8-14   | SCREW (TAB ATTACHMENT)                            | 4                     |
| 21                                                                                          | AN960-8L     | WASHER                                            | 4                     |
| 22                                                                                          | AN365-832    | NUT                                               | 4                     |
| 23                                                                                          | AN526-1032-8 | SCREW (TAB STOP)                                  | 1                     |
| 24                                                                                          | AN315-3R     | NUT (LOWER SIDE) TAB STOP                         | 1                     |
| 25                                                                                          | AN364-1032   | NUT (TAB STOP)                                    | 1                     |
| 26                                                                                          | 3-456        | ELEVATOR HORN COVER                               | 1                     |
| 27                                                                                          | C 365-832-1  | NUT                                               | 8                     |
| 28                                                                                          | AN526-8-6    | SCREW                                             | 8                     |
| 29                                                                                          | AN960-816    | WASHER                                            | A/R                   |
| 30                                                                                          | 1-2669       | BUSHING                                           | 1                     |
| 31                                                                                          | AN4-7A       | BOLT                                              | 1                     |
| 32                                                                                          | AN310-4      | NUT                                               | 1                     |
| <p><u>NOTE:</u> THIS INSTALLATION PERTAINS TO AIRCRAFT SERIAL NUMBERS 4-72 THRU 196-75.</p> |              |                                                   |                       |

FIGURE 40  
INSTALLATION - TAIL SURFACES  
BEARINGS

APPLICABLE FOR AIRCRAFT  
SERIAL NO'S. 197-75 AND UP



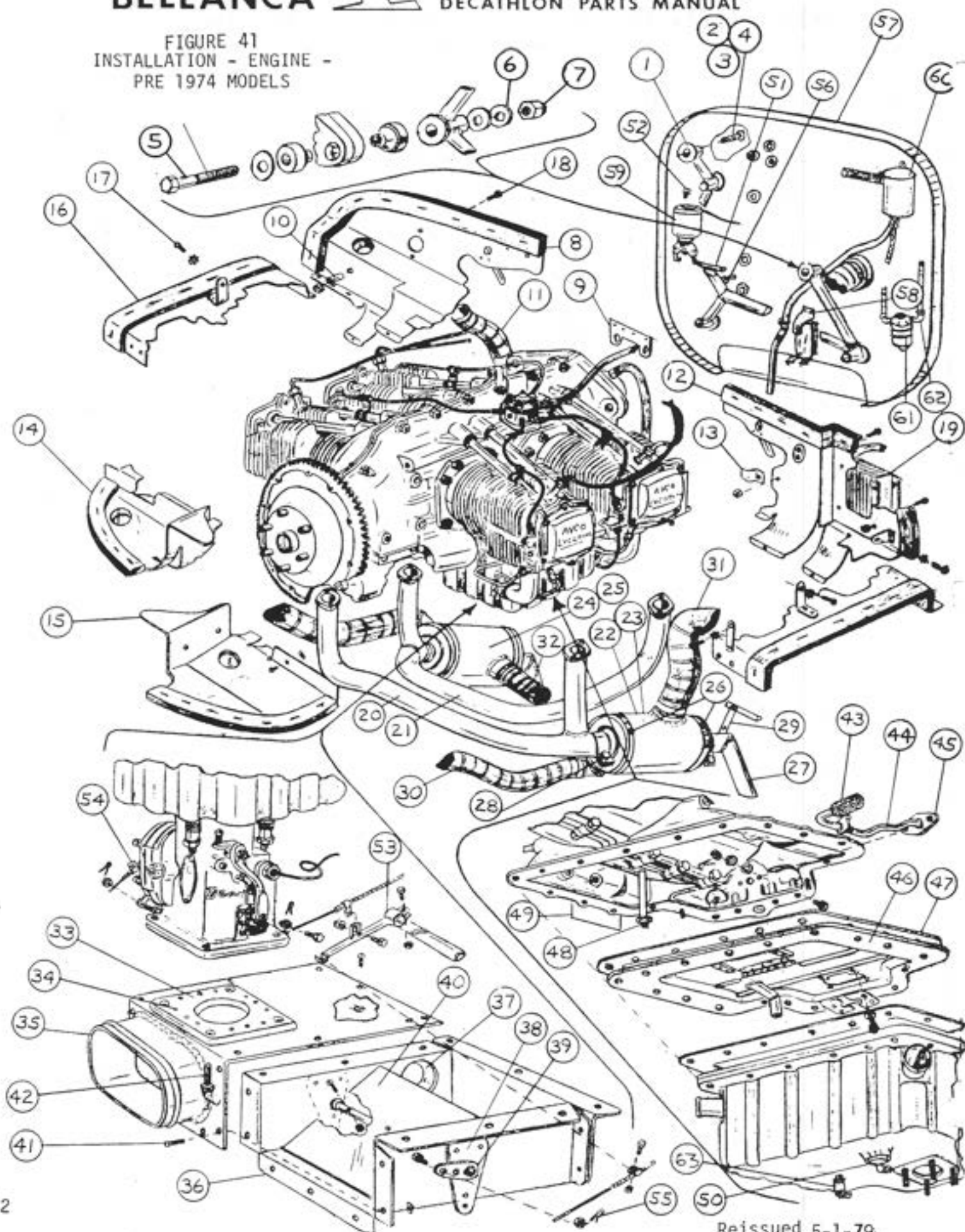


| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                             | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|---------------------------------------------------------|-----------------------|
| 40-                              | 7-1487      | DRAWING - INSTALLATION TAIL SURFACES (BEARINGS)         | 1L/1R                 |
| 1                                | 4-1481      | STABILIZER - COVERED                                    |                       |
|                                  | 4-1478      | STABILIZER - FRAME                                      |                       |
| 2                                | 2-1746-4    | STABILIZER - DRAG WIRE ASSEMBLY - UPPER<br>(ROUND)      | 2                     |
|                                  | 2-2178-2    | STABILIZER - DRAG WIRE ASSEMBLY - UPPER<br>(STREAMLINE) | 2                     |
|                                  | AN665-21L   | TERMINAL                                                | 1                     |
|                                  | AN665-21R   | TERMINAL                                                | 1                     |
|                                  | AN315-3L    | NUT                                                     | 1                     |
|                                  | AN315-3R    | NUT                                                     | 1                     |
|                                  | AN380-2-2   | COTTER PIN                                              | 1                     |
|                                  | AN393-11    | PIN                                                     | 1                     |
|                                  | 2-1745-4    | TIE ROD                                                 |                       |
| 3                                | 3-1107-2    | STABILIZER - DRAG WIRE ASSEMBLY - LOWER<br>(ROUND)      | 2                     |
|                                  | 2-2178-1    | STABILIZER - DRAG WIRE ASSEMBLY - LOWER<br>(STREAMLINE) | 2                     |
|                                  | 1-2340      | TIE ROD                                                 | 1                     |
|                                  | AN315-3L    | NUT                                                     | 1                     |
|                                  | AN315-3R    | NUT                                                     | 1                     |
|                                  | AN380-2-2   | COTTER PIN                                              | 1                     |
|                                  | AN393-11    | PIN                                                     | 1                     |
|                                  | AN665-21L   | TERMINAL                                                | 1                     |
|                                  | AN665-21R   | TERMINAL                                                | 1                     |
| 4                                | 1-2357      | LUG - DRAG WIRE                                         | 4                     |
| 5                                | AN3-15      | BOLT                                                    | 2                     |
| 6                                | AN310-3     | NUT                                                     | 8                     |
| 7                                | AN380-2-2   | COTTER PIN                                              | 15                    |
| 8                                | AN393-11    | PIN - DRAG WIRE ATTACHMENT                              | 4                     |
| 9                                | AN3-13      | BOLT                                                    | 2                     |
| 10                               | AN960-10    | WASHER                                                  | 4                     |
| 11                               | 4-1698      | RUDDER - COVERED                                        | 1                     |
|                                  | 4-1697      | RUDDER - FRAME                                          | 1                     |
| 12                               | AN23-40     | BOLT                                                    | 6                     |
| 13                               | 1-3737-1    | BUSHING                                                 | 12                    |
| 14                               | B34PS       | BEARINGS                                                | 12                    |
| 15                               | AN320-3     | NUT                                                     | 6                     |
| 16                               | 4-1704      | ELEVATOR - COVERED (RIGHT)                              | 1                     |
|                                  | 4-1703      | ELEVATOR - FRAME (RIGHT)                                | 1                     |
| 17                               | 4-1702      | ELEVATOR - COVERED (LEFT)                               | 1                     |
|                                  | 4-1701      | ELEVATOR - FRAME (LEFT)                                 | 1                     |
| 18                               | 4-562       | TAB - ELEVATOR                                          | 1                     |
| 19                               | AN515-8-14  | SCREW (TAB ATTACHMENT)                                  | 4                     |
| 20                               | AN960-8L    | WASHER                                                  | 4                     |
| 21                               | AN365-832   | NUT                                                     | 4                     |
| 22                               | AN526-10-22 | SCREW                                                   | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION               | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|---------------------------|-----------------------|
| 40-23                            | AN315-3R    | NUT (LOWER SIDE) TAB STOP | 1                     |
| 24                               | AN365-1032  | NUT - TAB STOP            | 1                     |
| 25                               | 3-456       | ELEVATOR HORN COVER       | 1                     |
| 26                               | C365-832-1  | NUT                       | 8                     |
| 27                               | AN526-8-6   | SCREW                     | 8                     |
| 28                               | 1-2190      | TAB                       | 1                     |
| 29                               | AS6-4-4SS   | SCREW                     | 3                     |
| 30                               | AN4-7       | BOLT                      | 1                     |
| 31                               | 1-2669      | BUSHING                   | 1                     |
| 32                               | AN960-416   | WASHER                    | 1                     |
| 33                               | AN310-4     | NUT                       | 1                     |
| 34                               | AN960-816   | WASHER                    | AS REQ'D              |
| 35                               | AN4-7A      | BOLT                      | 1                     |
| 36                               | AN960-416   | WASHER                    | AS REQ'D              |
| 37                               | AN365-428   | NUT                       | 1                     |

FIGURE 41  
INSTALLATION - ENGINE -  
PRE 1974 MODELS



Reissued 5-1-79



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER      | DESCRIPTION                                                                            | UNITS<br>PER<br>ASS'Y |
|----------------------------------|------------------|----------------------------------------------------------------------------------------|-----------------------|
| 41-                              | 7-1312<br>7-1413 | DRAWING - INSTALLATION INVERTED OIL SYSTEM<br>DRAWING - INSTALLATION ENGINE IO-320-E1A |                       |
| 1                                | 4-1033-10        | MOUNT - ENGINE                                                                         | 1                     |
| 2                                | AN7-32A          | BOLT                                                                                   | 4                     |
| 3                                | AN960-716        | WASHER                                                                                 | 4                     |
| 4                                | AN365-720        | NUT                                                                                    | 4                     |
| 5                                | AN8-42A          | BOLT                                                                                   | 4                     |
| 6                                | AN960-816        | WASHER                                                                                 | 8                     |
| 7                                | AN365-820        | NUT                                                                                    | 4                     |
|                                  |                  | LARGE WASHERS CF                                                                       | 4                     |
|                                  |                  | 71032 RUBBER BUSHING (LYCOMING) CF                                                     | 4                     |
| 8                                | 4-1427-2         | BAFFLE - RIGHT REAR                                                                    | 1                     |
| 9                                | 1-8834           | PLATE                                                                                  | 1                     |
| 10                               | AS1-6058-0-24C   | BUSHING                                                                                | 1                     |
| 11                               | 3-985-16         | FLEX HOSE (BLAST TUBE FUEL PUMP)                                                       | 1                     |
|                                  | 5912             | CLAMP (ATTACHMENT AT BAFFLE)                                                           | 1                     |
|                                  | 1-3504-1         | CLAMP (ATTACHMENT AT ENGINE)                                                           | 1                     |
| 12                               | 4-1430-2         | BAFFLE - LEFT REAR                                                                     | 1                     |
| 13                               | 1-8836           | CLIP                                                                                   | 1                     |
|                                  | AN526-8-6        | SCREW                                                                                  | 1                     |
|                                  | AN365-832        | NUT                                                                                    | 1                     |
| 14                               | 4-1422-2         | BAFFLE - RIGHT FRONT                                                                   | 1                     |
| 15                               | 4-1421           | BAFFLE - LEFT FRONT                                                                    | 1                     |
| 16                               | 3-1395           | BAFFLE - SIDE                                                                          | 1L/1R                 |
| 17                               | AN526-420-8      | SCREW (BAFFLE ATTACHMENT)                                                              | 7                     |
|                                  | AN960-416L       | WASHER                                                                                 | 7                     |
|                                  | AN936-B416       | WASHER - LOCK                                                                          | 7                     |
| 18                               | AN526-1024-20    | SCREW (BAFFLE ATTACHMENT)                                                              | 1                     |
|                                  | AN526-1024-8     | WASHER                                                                                 | 2                     |
|                                  | AN936-A10        | WASHER - LOCK                                                                          | 2                     |
|                                  | AS6-4-6SS        | SCREW (BAFFLE TO BAFFLE ATTACHMENT)                                                    | 14                    |
|                                  | A1776-42-1       | NUT (BAFFLE TO BAFFLE ATTACHMENT)                                                      | 14                    |
|                                  | AN526-832-6      | SCREW (MAG WIRE TO BAFFLE ATTACHMENT)                                                  | 4                     |
|                                  | AN365-832        | NUT (MAG WIRE TO BAFFLE ATTACHMENT)                                                    | 4                     |
| 19                               | 8526250          | OIL COOLER (HARRISON)                                                                  | 1                     |
|                                  | 8406-E           | OIL COOLER (STEWART WARNER) ALT.                                                       | 1                     |
|                                  | AN526-832-6      | SCREW (ATTACHMENT)                                                                     | 4                     |
|                                  | 1-8947-3         | HOSE (OIL COOLER TO ENGINE CASE)                                                       | 2                     |
|                                  | AN822-8D         | ELBOW 90°                                                                              | 1                     |
|                                  | AN823-8D         | ELBOW 45°                                                                              | 3                     |
| 20                               | 7-1330-2         | STACK - FRONT                                                                          | 1                     |
| 21                               | 7-1331-2         | STACK - REAR                                                                           | 1                     |
| 22                               | 4-1105           | LEFT MUFFLER ASSEMBLY                                                                  | 1                     |
| 23                               | 4-1106           | SHROUD - LEFT MUFFLER                                                                  | 1                     |
| 24                               | 4-1104           | RIGHT MUFFLER ASSEMBLY                                                                 | 1                     |
| 25                               | 4-1103           | SHROUD - RIGHT MUFFLER                                                                 | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                        | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------|--------------------------------------------------------------------|-----------------------|
| 41-                              | 4-1433        | SHROUD - RIGHT (REQ'D FOR REAR SEAT HEATER)                        | 1                     |
| 26                               | 5912          | CLAMP (SHROUD ATTACHMENT)                                          | 4                     |
|                                  | AS6-4-4SS     | SCREW (SHROUD ATTACHMENT)                                          | 4                     |
| 27                               | 3-1493        | ASSEMBLY MUFFLER CORE AND EXTENSION                                | 2                     |
| 28                               | 1-8843        | CLAMP                                                              | 4                     |
|                                  | AN4-4A        | BOLT                                                               | 4                     |
|                                  | AN363-428     | NUT                                                                | 4                     |
| 29                               | 1-8844-1      | HANGER STRAP                                                       | 2                     |
|                                  | AN4-5A        | BOLT                                                               | 4                     |
|                                  | 1-8897        | WASHER                                                             | 4                     |
|                                  | AN363-428     | NUT                                                                | 4                     |
| 30                               | 3-985-25      | TUBE - FLEX                                                        | 2                     |
|                                  | 5912          | CLAMP                                                              | 4                     |
| 31                               | 3-985-15      | TUBE - FLEX                                                        | 1                     |
|                                  | 5912          | CLAMP                                                              | 2                     |
| 32                               | 3-985-11      | TUBE - FLEX                                                        | 1                     |
|                                  | 5912          | CLAMP                                                              | 2                     |
|                                  | 4-1454        | ASSEMBLY AIR SCOOP BOX                                             | 1                     |
| 33                               | 2-1922        | FLANGE                                                             | 1                     |
| 34                               | AN426AD4-8    | RIVET                                                              | 12                    |
| 35                               | 3-1413        | COVER                                                              | 1                     |
| 36                               | 3-1385        | AIR BOX                                                            | 1                     |
| 37                               | 1-3670-3      | FLANGE                                                             | 1                     |
|                                  | AN470AD4-4    | RIVETS                                                             | 2                     |
|                                  | AN426AD4-4    | RIVETS (FLUSH TYPE)                                                | 3                     |
| 38                               | 1-2563        | PLATE - BEARING                                                    | 2                     |
|                                  | AN470AD4-5    | RIVET                                                              | 6                     |
| 39                               | 1-8950-2      | SHAFT ASSEMBLY                                                     | 1                     |
| 40                               | 1-9155        | FLAP                                                               | 1                     |
|                                  | AN526-632-10  | SCREW                                                              | 3                     |
|                                  | AN364-632     | NUT                                                                | 3                     |
| 41                               | AN515-8-5     | SCREW                                                              | 16                    |
|                                  | C420-832-1    | NUT                                                                | 16                    |
| 42                               | AN74A-3       | BOLT                                                               | 4                     |
| 43                               | 2-1936        | OIL PICK UP TUBE (WITH SCREEN)                                     | 1                     |
| 44                               | 2-1932        | TUBE                                                               | 1                     |
| 45                               | 60820         | GASKET (LYCOMING) CF                                               | 1                     |
|                                  | AN392-31      | PIN (TUBE TO TUBE ATTACHMENT)                                      | 1                     |
|                                  | AN380-2-2     | COTTER PIN                                                         | 1                     |
| 46                               | 4-1460        | ASSEMBLY OIL SUMP BAFFLE                                           | 1                     |
| 47                               | 68972         | GASKET (1 EACH SIDE OF BAFFLE LYCOMING)                            | 2                     |
| 48                               | 2-1930        | OIL RETURN TUBE (SELECT MACHINE FIT TO EACH ENGINE)                | 1                     |
|                                  | AN960-916     | WASHER                                                             | 2                     |
|                                  | 1-9836        | NUT                                                                | 1                     |
| 49                               | 1-10112       | PLACARD - OIL SUMP                                                 | 1                     |
| 50                               | 1-9843        | HEX PLUG - OIL SUMP BOTTOM                                         | 1                     |
| 51                               | 624000-5-0200 | FUEL LINE (STRAINER TO PUMP INLET)<br>(PUMP OUTLET TO ENGINE PUMP) | 2                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                                      | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------|------------------------------------------------------------------|-----------------------|
| 41-                              | AN912-1D      | REDUCER (STRAINER)                                               | 1                     |
|                                  | 1/4 x 1/8     |                                                                  |                       |
| 52                               | AN822-4D      | ELBOW 90° (STRAINER)                                             | 1                     |
|                                  | 624000-3-0104 | OIL PRESSURE LINE                                                | 1                     |
|                                  | 1-9644        | NIPPLE - ENGINE                                                  | 1                     |
|                                  | AN832-3       | UNION - FIREWALL                                                 | 1                     |
|                                  | AN960-616     | WASHER                                                           | 2                     |
| 53                               | AN924-3       | NUT (FOR AN832-3)                                                | 1                     |
|                                  |               | THROTTLE AND CARB. HEAT CONTROL ATTACHMENT<br>AT MOUNT           | 1                     |
|                                  | 2-1950        | BRACKET                                                          | 1                     |
|                                  | 1-2362        | WASHER                                                           | 2                     |
|                                  | 1-2577        | SHIM                                                             | 1                     |
|                                  | AN4-7A        | BOLT                                                             | 1                     |
|                                  | AN365-428     | NUT                                                              | 1                     |
|                                  | AN742-4       | CLAMP                                                            | 2                     |
|                                  | AN3-4A        | BOLT                                                             | 2                     |
|                                  | AN960-10      | WASHER                                                           | 2                     |
| 54                               | AN365-1032    | NUT                                                              | 2                     |
|                                  |               | MIXTURE CONTROL ATTACHMENT AT MOUNT                              | 1                     |
|                                  | 2-1951        | BRACKET                                                          | 1                     |
|                                  | AN4-7A        | BOLT                                                             | 1                     |
|                                  | AN365-428     | NUT                                                              | 1                     |
|                                  | AN742-3       | CLAMP                                                            | 1                     |
|                                  | AN960-10      | WASHER                                                           | 1                     |
|                                  | 1-2362        | WASHER                                                           | 1                     |
|                                  | AN3-4A        | BOLT                                                             | 1                     |
| 55                               | AN365-1032    | NUT                                                              | 1                     |
|                                  |               | THROTTLE, MIXTURE AND CARB. HEAT CONTROL<br>ATTACHMENT TO ENGINE | 1                     |
|                                  | 1-9995        | BOLT                                                             | 3                     |
|                                  | AN960-416     | WASHER                                                           | A/R                   |
|                                  | AN960-416L    | WASHER                                                           | A/R                   |
|                                  | AN310-4       | NUT                                                              | 3                     |
|                                  | AN380-2-2     | COTTER PIN                                                       | 3                     |
| 56                               | 116           | GROUND STRAP                                                     | 1                     |
|                                  | AN4-4A        | BOLT                                                             | 1                     |
|                                  | AN365-428     | NUT                                                              | 1                     |
| 57                               | 4-1540        | FIREWALL SUB-ASSEMBLY WITH PLATENUTS AND<br>LOWER BAFFLE         | 1                     |
|                                  | 4-860         | FIREWALL - BLANK ONLY                                            | 1                     |
|                                  | 4-1555        | FIREWALL MAT                                                     | 1                     |
|                                  | 3-1451        | GOVERNOR BOX COVER                                               | 1                     |
|                                  | AN3-3A        | BOLT - ATTACHMENT                                                | 4                     |
|                                  | 2-2003        | GASKET - BOX TO FIREWALL                                         | 1                     |
|                                  | 3-1441        | GOVERNOR BOX                                                     | 1                     |
|                                  | AN526-832-5   | SCREW - ATTACHMENT                                               | 10                    |
|                                  | C420-832-1    | NUT                                                              | 10                    |
|                                  | 4-972         | CABIN HEATER ASSEMBLY                                            | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                            | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------|----------------------------------------|-----------------------|
| 41-                              | AN515-8-8      | SCREW                                  | 3                     |
|                                  | AN365-832      | NUT                                    | 3                     |
| 58                               | 2-727          | BRACKET - STRAINER                     | 1                     |
|                                  | AN515-8-5      | SCREW                                  | 2                     |
|                                  | C420-832-1     | NUT                                    | 2                     |
| 59                               | 8110-C         | FUEL PUMP - EMERGENCY (WELDON)         | 1                     |
|                                  | AN74A-3        | BOLT (ATTACHMENT)                      | 4                     |
|                                  | 1-8897         | WASHER (AFT FIREWALL)                  | 4                     |
|                                  | AN960-416      | WASHER                                 | 4                     |
|                                  | RA2000-5-6     | 90° ELBOW (LOWER FITTINGS)             | 2                     |
|                                  | 2-2111-3       | VENT LINE (EMERGENCY FUEL PUMP)        | 1                     |
|                                  | 2-2111-2       | VENT LINE (ENGINE FUEL PUMP)           | 1                     |
| 60                               | 1-10144        | (SEPARATOR) ASSEMBLY                   | 1                     |
|                                  | AN3-3A         | BOLT (ATTACHMENT)                      | 2                     |
|                                  | AN960-10L      | WASHER                                 | 2                     |
|                                  | 624000-8D-0250 | HOSE (SEPARATOR) TO OIL SUMP           | 1                     |
|                                  | AN816-8D       | NIPPLE (FOR 624000-8D-0250)            | 1                     |
|                                  | 7-1413-1       | BREATHER HOSE (SEPARATOR) TO ENGINE    | 1                     |
|                                  | AN737TW38      | CLAMP                                  | 2                     |
|                                  | 7-1413-2       | BREATHER LINE (SEPARATOR) TO OVERBOARD | 1                     |
|                                  | 1-8832-3       | HOSE - CONNECTING                      | 1                     |
|                                  | AN737TW38      | CLAMPS                                 | 2                     |
| 61                               | 1B5-9          | PUMP - OIL SCAVENGE                    | 1                     |
|                                  | 2-2065         | BRACKET - MOUNTING                     | 2                     |
|                                  | 1-10281        | "U" CLAMP                              | 2                     |
|                                  | AN970-3        | WASHER (ATTACHMENT)                    | 4                     |
|                                  | AN365-1032     | NUT (ATTACHMENT)                       | 4                     |
| 62                               | RA2000-6-6     | ELBOW (OUTLET AND INLET)               | 2                     |
|                                  | 350-6-0160     | HOSE - PUMP INLET TO (SEPARATOR)       | 1                     |
|                                  | 624000-6-0300  | HOSE - PUMP OUTLET TO SUMP             | 1                     |
| 63                               | 1-10145        | MANIFOLD - RIGHT OIL INLET             | 1                     |
|                                  | AN816-6D       | NIPPLE - MANIFOLD                      | 1                     |

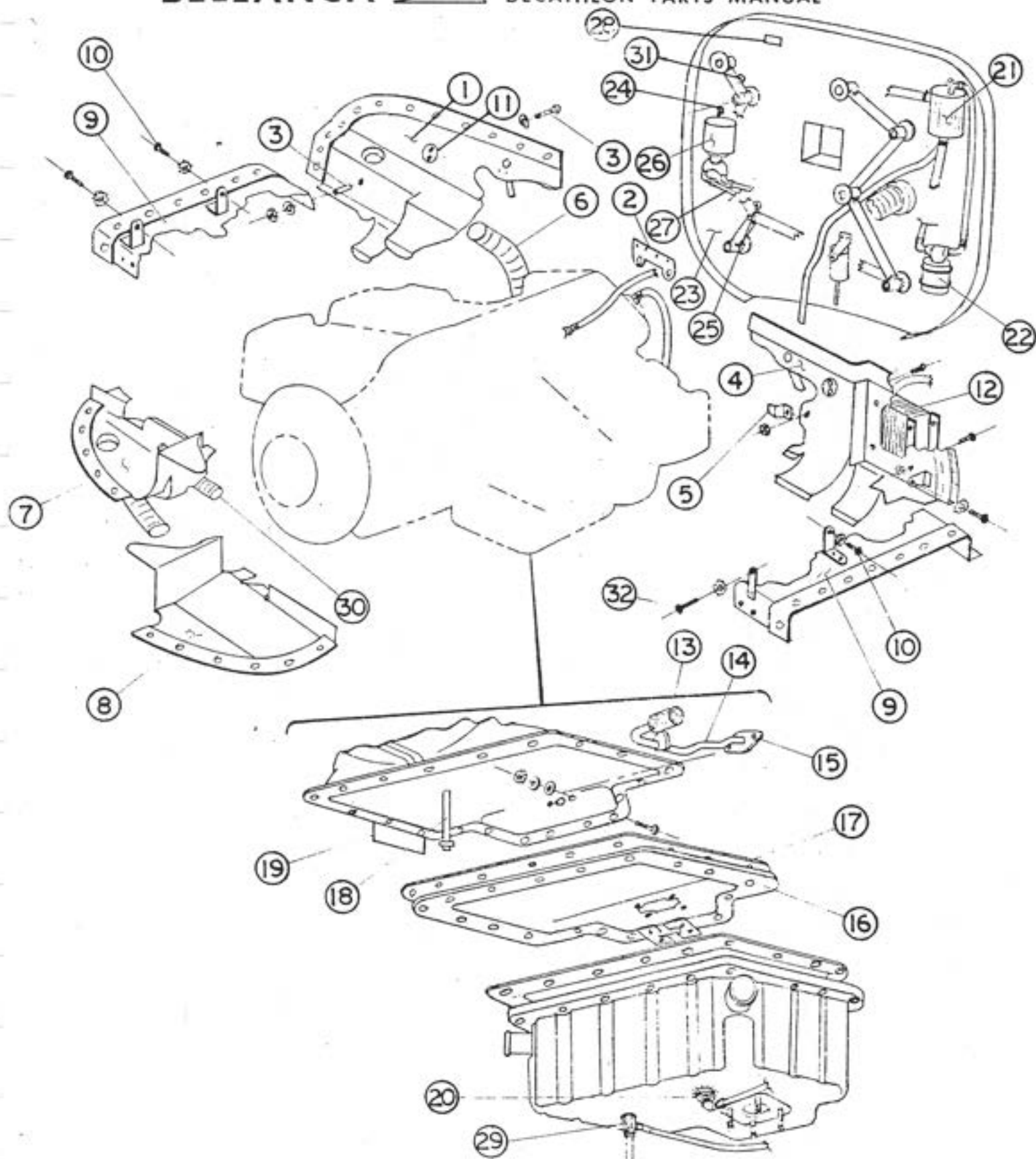


FIGURE 42  
INSTALLATION - ENGINE EQUIPMENT  
AND BAFFLES (10-320-E1B)



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER      | DESCRIPTION                                                                 | UNITS<br>PER<br>ASS'Y |
|----------------------------------|------------------|-----------------------------------------------------------------------------|-----------------------|
| 42-                              | 7-1312<br>7-1413 | DRAWING - INSTALLATION INVERTED OIL SYSTEM<br>DRAWING - INSTALLATION ENGINE |                       |
| 1                                | 4-1427-3         | BAFFLE - RIGHT REAR                                                         | 1                     |
| 2                                | 1-8834           | PLATE                                                                       | 1                     |
| 3                                | AN526-1024-20    | SCREW                                                                       | 1                     |
|                                  | AN960-10L        | WASHER                                                                      | 1                     |
|                                  | AN936-A10        | WASHER                                                                      | 1                     |
|                                  | AS16058-0-24C    | BUSHING                                                                     | 1                     |
| 4                                | 4-1430-3         | BAFFLE - LEFT REAR                                                          | 1                     |
| 5                                | 1-8836           | CLIP - BAFFLE ATTACHMENT                                                    | 1                     |
|                                  | AN526-832-6      | SCREW - ATTACHMENT                                                          | 1                     |
|                                  | AN365-832        | NUT                                                                         | 1                     |
| 6                                | 3-985-16         | TUBE - FLEX - BLAST TUBE FUEL PUMP                                          | 1                     |
|                                  | 5912             | CLAMP - BAFFLE ATTACHMENT                                                   | 1                     |
|                                  | 1-3504-1         | CLAMP - ENGINE ATTACHMENT                                                   | 1                     |
| 7                                | 4-1422           | BAFFLE - RIGHT FRONT                                                        | 1                     |
| 8                                | 4-1421           | BAFFLE - LEFT FRONT                                                         | 1                     |
| 9                                | 3-1395           | BAFFLE - SIDE                                                               | 1L/1R                 |
| 10                               | AN526-420-8      | SCREW - BAFFLE ATTACHMENT                                                   | 7                     |
|                                  | AN960-416L       | WASHER                                                                      | 7                     |
|                                  | AN936-B416       | WASHER - LOCK                                                               | 7                     |
| 11                               | AN526-832-8      | SCREW - MAG. WIRE TO BAFFLE ATTACHMENT                                      | 4                     |
|                                  | AN365-832        | NUT - MAG. WIRE TO BAFFLE ATTACHMENT                                        | 4                     |
|                                  | M-2375           | MAG. WIRE GROMMET - REQ'D ON IO-320-E1B                                     | 2                     |
|                                  | AS7-4-6SS        | SCREW - BAFFLE TO BAFFLE ATTACHMENT                                         | 14                    |
|                                  | A1776-4Z-1       | NUT - BAFFLE TO BAFFLE ATTACHMENT                                           | 14                    |
| 12                               | 8526250          | OIL COOLER (HARRISON)                                                       | 1                     |
|                                  | AN526-832-6      | SCREW - ATTACHMENT                                                          | 4                     |
|                                  | AN365-832        | NUT                                                                         | 4                     |
|                                  | 1-8947-3         | HOSE - OIL COOLER TO ENGINE CASE                                            | 2                     |
|                                  | AN823-8D         | ELBOW 45°                                                                   | 3                     |
|                                  | AN822-8D         | ELBOW 90°                                                                   | 1                     |
| 13                               | 2-1936           | OIL PICK UP TUBE (WITH SCREEN)                                              | 1                     |
| 14                               | 2-1932           | TUBE - STATIONARY                                                           | 1                     |
| 15                               | 60820            | GASKET (LYCOMING) CF                                                        | 1                     |
|                                  | AN392-31         | PIN (TUBE TO TUBE ATTACHMENT)                                               | 1                     |
|                                  | AN380-2-2        | COTTER PIN                                                                  | 1                     |
| 16                               | 4-1460           | ASSEMBLY OIL SUMP BAFFLE                                                    | 1                     |
| 17                               | 68972            | GASKET (1 EACH SIDE OF BAFFLE LYCOMING)                                     | 2                     |
| 18                               | 2-1930           | OIL RETURN TUBE (SELECT MACHINE FIT TO EACH ENGINE)                         | 1                     |
|                                  | AN960-916        | WASHER                                                                      | 2                     |
|                                  | 1-9836           | NUT                                                                         | 1                     |
| 19                               | 1-10112          | PLACARD - OIL SUMP                                                          | 1                     |
| 20                               | 1-9843           | HEX. PLUG - OIL SUMP BOTTOM                                                 | 1                     |
| 21                               | 1-10144          | SEPARATOR - ASSEMBLY                                                        | 1                     |
|                                  | AN3-3A           | BOLT - ATTACHMENT                                                           | 2                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                                                        | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------|--------------------------------------------------------------------|-----------------------|
| 42-                              | AN960-10L      | WASHER                                                             | 2                     |
|                                  | 624000-8D-0250 | HOSE (SEPARATOR TO OIL SUMP)                                       | 1                     |
|                                  | AN816-8D       | NIPPLE (FOR HOSE)                                                  | 1                     |
|                                  | 7-1413-1       | HOSE - BREATHER (SEPARATOR TO ENGINE)                              | 1                     |
|                                  | AN737TW34      | CLAMP                                                              | 1                     |
|                                  | 7-1413-2       | BREATHER LINE - SEPARATOR TO OUTBOARD                              | 2                     |
|                                  | 1-8832-3       | HOSE CONNECTING                                                    | 1                     |
|                                  | AS8-15         | CLAMP                                                              | 1                     |
| 22                               | 1B5-9          | PUMP - OIL SCAVENGE                                                | 2                     |
|                                  | 2-2065         | BRACKET - MOUNT                                                    | 1                     |
|                                  | 1-10281        | CLAMP                                                              | 1                     |
|                                  | AN970-3        | WASHER                                                             | 2                     |
|                                  | AN365-1032     | NUT                                                                | 4                     |
|                                  | RA2000-6-6     | ELBOW - PUMP INLET OUTLET                                          | 4                     |
|                                  | 350-6-0300     | HOSE - PUMP OUTLET TO SUMP                                         | 2                     |
|                                  | 350-6-0160     | HOSE - PUMP INLET TO SEPARATOR                                     | 1                     |
| 23                               | AN822-6D       | ELBOW 90° ON SEPARATOR                                             | 1                     |
|                                  | 4-1647         | FIREWALL - SUB-ASSEMBLY                                            | 1                     |
|                                  | 4-1640         | FIREWALL BLANK                                                     | 1                     |
|                                  | 4-1555         | FIREWALL MAT                                                       | 1                     |
|                                  | 3-1441         | GOVERNOR BOX                                                       | 1                     |
|                                  | 2-2003         | GASKET                                                             | 1                     |
|                                  | AN526-832-5    | SCREW - BOX ATTACHMENT                                             | 10                    |
|                                  | C420-832-1     | NUT                                                                | 10                    |
|                                  | 2-2075         | COVER                                                              | 1                     |
|                                  | 3-1451         | GOVERNOR BOX COVER                                                 | 1                     |
|                                  | AN3-3A.        | BOLT - COVER ATTACHMENT                                            | 4                     |
|                                  | 4-972          | HEATER BOX                                                         | 1                     |
|                                  | AN515-8-8      | SCREW - BOX ATTACHMENT                                             | 3                     |
|                                  | AN365-832      | NUT                                                                | 3                     |
| 24                               | 1-9644         | NIPPLE - ENGINE                                                    | 1                     |
|                                  | 624000-3-0104  | HOSE - OIL PRESSURE LINE                                           | 1                     |
|                                  | AN832-3        | UNION - FIREWALL                                                   | 1                     |
|                                  | AN960-616      | WASHER                                                             | 2                     |
|                                  | AN924-3        | NUT                                                                | 1                     |
| 25                               | 116            | GROUND WIRE                                                        | 1                     |
|                                  | AN4-4A         | BOLT - ATTACHMENT                                                  | 1                     |
|                                  | AN365-428      | NUT                                                                | 1                     |
| 26                               | 8110-C         | FUEL PUMP - EMERGENCY (WELDON)                                     | 1                     |
|                                  | AN74A-3        | BOLT - ATTACHMENT                                                  | 4                     |
|                                  | 1-8897         | WASHER - AFT FIREWALL                                              | 4                     |
|                                  | AN960-416      | WASHER                                                             | 8                     |
|                                  | RA2000-5-6     | ELBOW 90° - LOWER FITTING                                          | 2                     |
|                                  | 2-2111-3       | VENT LINE - EMERGENCY FUEL PUMP                                    | 1                     |
| 27                               | 2-2111-2       | VENT LINE - ENGINE FUEL PUMP                                       | 1                     |
|                                  | 624000-5-0200  | FUEL LINE (STRAINER TO PUMP INLET) (PUMP<br>OUTLET TO ENGINE PUMP) | 2                     |
|                                  | AN822-5-4D     | ELBOW 90° - STRAINER                                               | 1                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER  | DESCRIPTION                              | UNITS<br>PER<br>ASS'Y |
|----------------------------------|--------------|------------------------------------------|-----------------------|
| 42-28                            | 1-10123-1    | BRACKET SWITCH                           | 1                     |
|                                  | AN526-1032-8 | SCREW - BRACKET ATTACHMENT               | 2                     |
|                                  | 7MP1-2       | SWITCH                                   | 2                     |
| 29                               | 1-10145      | MANIFOLD                                 | 1                     |
|                                  | AN816-6D     | NIPPLE                                   | 1                     |
|                                  | HD-LF        | OIL QUICK DRAIN                          | 1                     |
| 30                               | 3-985-30     | TUBE - FLEX - RIGHT FRONT BAFFLE TO ALT. | 1                     |
|                                  | AN737TW34    | CLAMP                                    | 2                     |
| 31                               | 1-10348      | FUEL DRAIN CONTROL                       | 1                     |
|                                  | 1-10350      | FUEL DRAIN PLACARD                       | 1                     |
|                                  | AN742-3      | CLAMP - CONTROL ATTACHMENT TO FIREWALL   | 1                     |
|                                  | AN3-4A       | BOLT                                     | 1                     |
|                                  | 1-2362       | WASHER                                   | 1                     |
|                                  | AN960-10     | WASHER                                   | 1                     |
|                                  | 1-2577-1     | SHIM - BRASS                             | 1                     |
|                                  | AN365-1032   | NUT                                      | 1                     |
| 32                               | AN526-1024-8 | SCREW - BAFFLE ATTACHMENT                | 1                     |
|                                  | AN960-10L    | WASHER                                   | 1                     |
|                                  | AN936-A10    | WASHER - LOCK                            | 1                     |

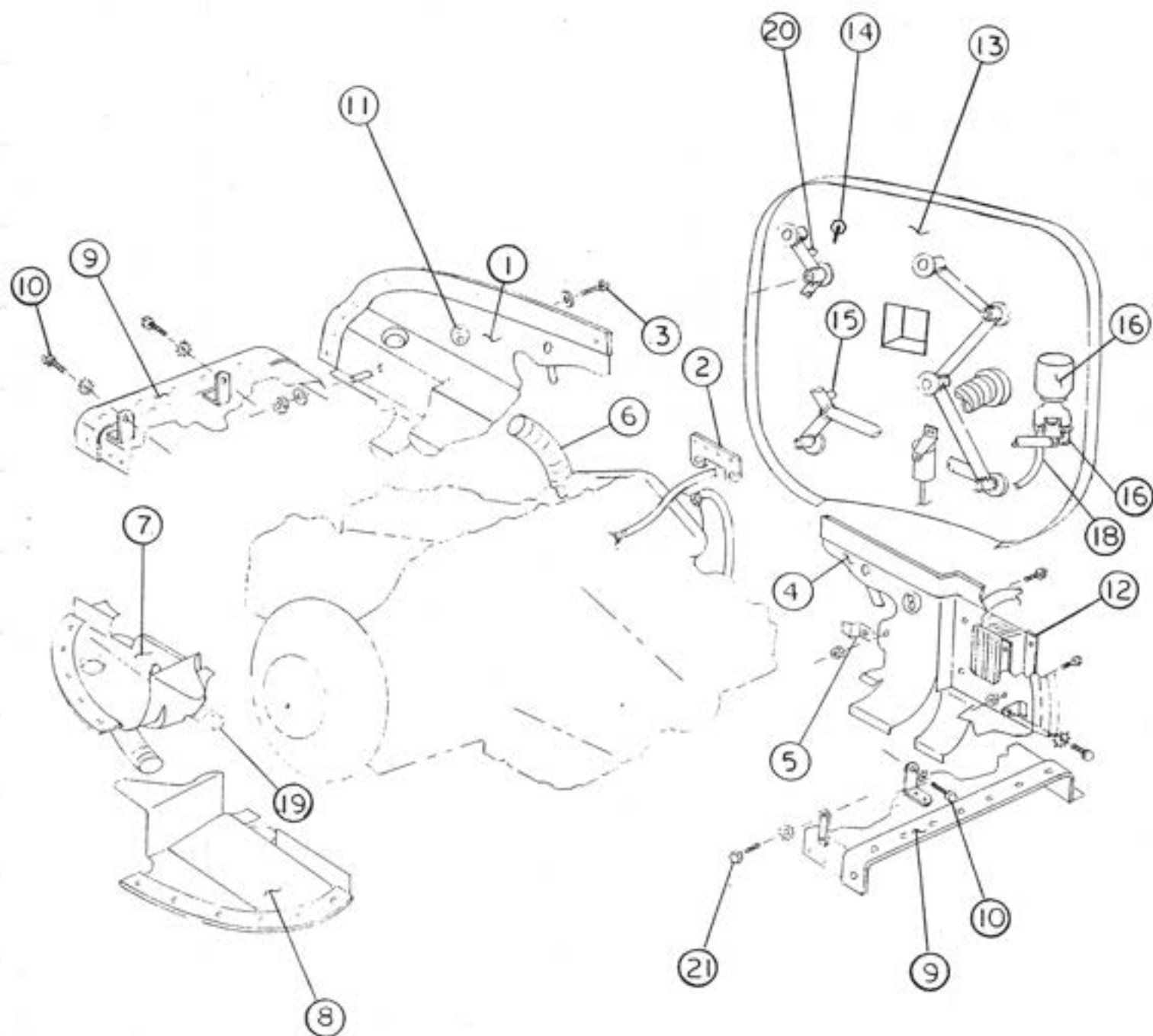


FIGURE 43  
INSTALLATION - BAFFLES AND  
OIL COOLER AE10-320-E1B



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                                  | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------|----------------------------------------------|-----------------------|
| 43-                              | 7-1413         | DRAWING - INSTALLATION ENGINE (AEIO-320-E1B) |                       |
| 1                                | 4-1427-3       | BAFFLE - RIGHT REAR                          | 1                     |
| 2                                | 1-8834         | PLATE                                        | 1                     |
| 3                                | AN526-1024-20  | SCREW                                        | 1                     |
|                                  | AN960-10L      | WASHER                                       | 1                     |
|                                  | AN936-A10      | WASHER - LOCK                                | 1                     |
|                                  | AS16058-0-24C  | BUSHING                                      | 1                     |
| 4                                | 4-1430         | BAFFLE - LEFT REAR                           | 1                     |
| 5                                | 1-8836         | CLIP - BAFFLE ATTACHMENT                     | 1                     |
|                                  | AN526-832-6    | SCREW - ATTACHMENT                           | 1                     |
|                                  | AN365-832      | NUT                                          | 1                     |
| 6                                | 3-985-16       | TUBE - FLEX BLAST TUBE FUEL PUMP             | 1                     |
|                                  | 5912           | CLAMP - BAFFLE ATTACHMENT                    | 1                     |
|                                  | 1-3504-1       | CLAMP - ENGINE ATTACHMENT                    | 1                     |
| 7                                | 4-1422         | BAFFLE - RIGHT FRONT                         | 1                     |
| 8                                | 4-1421         | BAFFLE - LEFT FRONT                          | 1                     |
| 9                                | 3-1395         | BAFFLE - SIDE                                | 1L/1R                 |
| 10                               | AN526-420-8    | SCREW - BAFFLE ATTACHMENT                    | 7                     |
|                                  | AN960-416L     | WASHER                                       | 7                     |
|                                  | AN936-B416     | WASHER - LOCK                                | 7                     |
| 11                               | AN526-832-8    | SCREW - MAG. WIRE TO BAFFLE ATTACHMENT       | 4                     |
|                                  | AN365-832      | NUT - MAG. WIRE TO BAFFLE ATTACHMENT         | 4                     |
|                                  | M2375          | MAG WIRE GROMMET                             | 2                     |
|                                  | AS6-4-6SS      | SCREW - BAFFLE TO BAFFLE ATTACHMENT          | 14                    |
|                                  | A1776-4Z-1     | NUT - BAFFLE TO BAFFLE ATTACHMENT            | 14                    |
| 12                               | 8526250        | OIL COOLER (HARRISON)                        | 1                     |
|                                  | 8406E          | OIL COOLER (STEWART WARNER ALT.)             | 1                     |
|                                  | AN526-832-6    | SCREW ATTACHMENT                             | 4                     |
|                                  | AN365-832      | NUT                                          | 4                     |
|                                  | 624000-8D-0134 | HOSE OIL COOLER TO ENGINE CASE               | 2                     |
|                                  | AN823-8D       | ELBOW 45°                                    | 3                     |
|                                  | AN822-8D       | ELBOW 90°                                    | 1                     |
| 13                               | 4-1686         | FIREWALL SUB-ASSEMBLY (SQUARE GOVERNOR BOX)  | 1                     |
|                                  | 4-1724         | FIREWALL SUB-ASSEMBLY (ROUND GOVERNOR BOX)   | 1                     |
|                                  | 4-1620         | FIREWALL BLANK (ALL)                         | 1                     |
|                                  | 3-1441         | GOVERNOR BOX (SQUARE)                        | 1                     |
|                                  | 3-1451         | GOVERNOR BOX COVER                           | 1                     |
|                                  | 3-1609         | GOVERNOR BOX ASSEMBLY (ROUND)                | 1                     |
|                                  | 4-1555         | MAT - FIREWALL (PRE 1977)                    | 1                     |
|                                  | 4-1723         | MAT - FIREWALL (1977 AND UP)                 | 1                     |
|                                  | 3-1582         | HEATER BOX                                   | 1                     |
|                                  | 2-2156         | HEATER DEFLECTOR                             | 1                     |
|                                  | AN515-8-10     | SCREW - BOX AND DEFLECTOR ATTACHMENT         | 3                     |
|                                  | AN365-832      | NUT                                          | 3                     |
| 14                               | 1-9644         | NIPPLE - ENGINE                              | 1                     |
|                                  | 624000-3-0104  | HOSE OIL PRESSURE LINE                       | 1                     |
|                                  | AN832-3        | UNION - FIREWALL                             | 1                     |
|                                  | AN960-616      | WASHER                                       | 2                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                   | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------|-----------------------------------------------|-----------------------|
| 43-                              | AN924-3       | NUT                                           | 1                     |
| 15                               | 116           | GROUND WIRE                                   | 1                     |
|                                  | AN4-4A        | BOLT - ATTACHMENT                             | 1                     |
|                                  | AN365-428     | NUT                                           | 1                     |
| 16                               | A-8110-G      | FUEL PUMP - EMERGENCY (STYLE "J")             | 1                     |
|                                  | AN737TW91     | CLAMP                                         | 1                     |
|                                  | 2-2111-3      | VENT LINE - EMERGENCY FUEL PUMP               | 1                     |
|                                  | AN823-4D      | ELBOW 45° - VENT FITTING                      | 1                     |
|                                  | 2-2111-2      | VENT LINE - ENGINE FUEL PUMP                  | 1                     |
| 17                               | RA2000-5-6    | ELBOW 90° - OUTLET FITTING                    | 1                     |
|                                  | 624117-5-0155 | FUEL LINE - PUMP OUTLET TO ENGINE PUMP        | 1                     |
| 18                               | RA1000-5-6    | NIPPLE - INLET FITTING                        | 1                     |
|                                  | 2-2176        | FUEL LINE - STRAINER TO PUMP INLET            | 1                     |
| 19                               | 3-985-30      | TUBE - FLEX - RIGHT FRONT BAFFLE TO ALT.      | 1                     |
|                                  | AN737TW38     | CLAMP                                         | 2                     |
| 20                               | 1-10348-1     | FUEL DRAIN CONTROL                            | 1                     |
|                                  | 1-10350       | FUEL DRAIN PLACARD                            | 1                     |
|                                  | AN742-3       | CLAMP                                         | 1                     |
|                                  | AN3-4A        | BOLT                                          | 1                     |
|                                  | 1-2362        | WASHER                                        | 1                     |
|                                  | AN960-10      | WASHER                                        | 1                     |
|                                  | 1-2577-1      | SHIM (BRASS)                                  | 1                     |
|                                  | AN365-1032    | NUT                                           | 1                     |
| 21                               | AN526-1024-8  | SCREW - BAFFLE ATTACHMENT                     | 1                     |
|                                  | AN960-10L     | WASHER                                        | 1                     |
|                                  | AN936-A10     | WASHER LOCK                                   | 1                     |
| 22                               | 1-10540,      | FUEL LINE - FUEL PUMP TO INJECTOR (NOT SHOWN) | 1                     |

NOTE: 8KCAB EQUIPPED WITH LYCOMING CHRISTEN  
OIL SYSTEM S/N 175 AND UP.

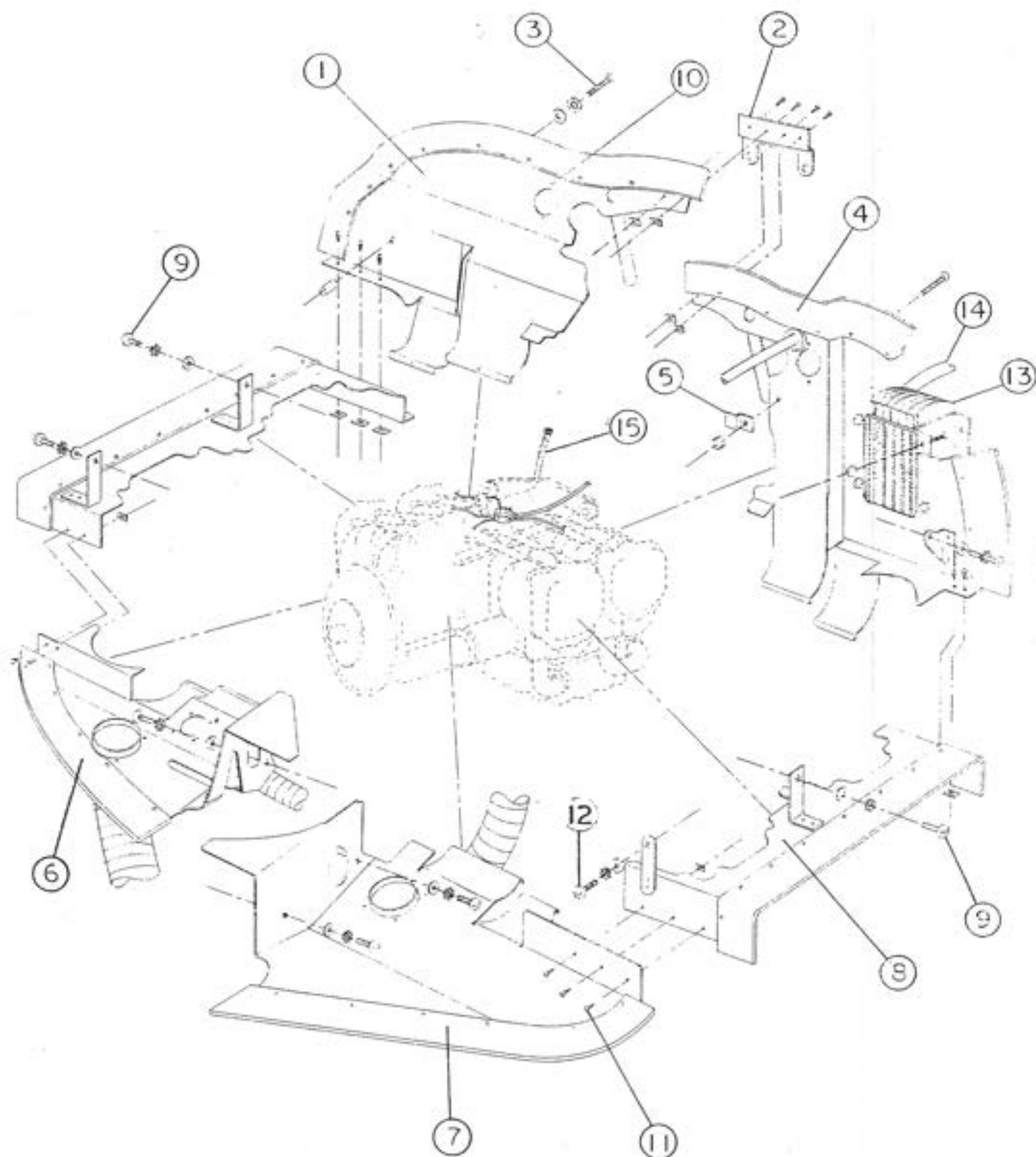


FIGURE 44  
INSTALLATION ENGINE Baffles  
AND OIL COOLER AE10-360-H1A



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER    | DESCRIPTION                             | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------|-----------------------------------------|-----------------------|
| 44-                              | 7-7502         | DRAWING - INSTALLATION ENGINE           |                       |
| 1                                | 4-1713         | BAFFLE - RIGHT REAR                     | 1                     |
| 2                                | 1-8834         | PLATE                                   | 1                     |
| 3                                | AN526-1024-20  | SCREW                                   | 1                     |
|                                  | AN960-10L      | WASHER                                  | 1                     |
|                                  | AN936-A10      | WASHER - LOCK                           | 1                     |
|                                  | AS16058-024C   | BUSHING                                 | 1                     |
| 4                                | 4-1715         | BAFFLE - LEFT REAR                      | 1                     |
| 5                                | 1-8836         | CLIP - BAFFLE ATTACHMENT                | 1                     |
|                                  | AN526-832-6    | SCREW                                   | 1                     |
|                                  | AN365-832      | NUT                                     | 1                     |
| 6                                | 4-1654         | BAFFLE - RIGHT FRONT                    | 1                     |
| 7                                | 4-1653         | BAFFLE - LEFT FRONT                     | 1                     |
| 8                                | 3-1563         | BAFFLE - SIDE                           | 1L/1R                 |
| 9                                | AN526-420-8    | SCREW - BAFFLE ATTACHMENT               | 7                     |
|                                  | AN960-416L     | WASHER                                  | 7                     |
|                                  | AN936-B416     | WASHER - LOCK                           | 7                     |
| 10                               | AN526-832-8    | SCREW - MAG. WIRE TO BAFFLE ATTACHMENT  | 4                     |
|                                  | AN365-832      | NUT - MAG. WIRE TO BAFFLE ATTACHMENT    | 4                     |
|                                  | M-2375         | MAG. - WIRE GROMMETS REQ'D ON O-320-A2D | 2                     |
| 11                               | AS6-4-6SS      | SCREW - BAFFLE TO BAFFLE ATTACHMENT     | 14                    |
|                                  | A1776-4Z-1     | NUT                                     | 14                    |
| 12                               | AN526-1024-8   | SCREW - BAFFLE ATTACHMENT               | 1                     |
|                                  | AN960-10L      | WASHER                                  | 1                     |
|                                  | AN936-A10      | WASHER - LOCK                           | 1                     |
| 13                               | 8526250        | OIL COOLER (HARRISON)                   | 1                     |
|                                  | AN526-832-6    | SCREW - COOLER ATTACHMENT               | 4                     |
|                                  | AN365-832      | NUT                                     | 4                     |
| 14                               | 624000-8D-0134 | HOSE - OIL COOLER TO ENGINE CASE        | 2                     |
|                                  | AN823-8D       | ELBOW 45°                               | 3                     |
|                                  | AN822-8D       | ELBOW 90°                               | 1                     |
| 15                               | 624000-3-0104  | HOSE ASSEMBLY (OIL PRESSURE LINE)       | 1                     |
|                                  | 1-9644         | FITTING                                 | 1                     |
|                                  | AN823-3        | UNION (FIREWALL)                        | 1                     |
|                                  | AN960-616      | WASHER                                  | 2                     |
|                                  | AN924-3        | NUT                                     | 1                     |
| 16                               | 116            | GROUND WIRE (NOT SHOWN)                 | 1                     |
|                                  | AN4-4A         | BOLT                                    | 1                     |
|                                  | AN365-428      | NUT                                     | 1                     |

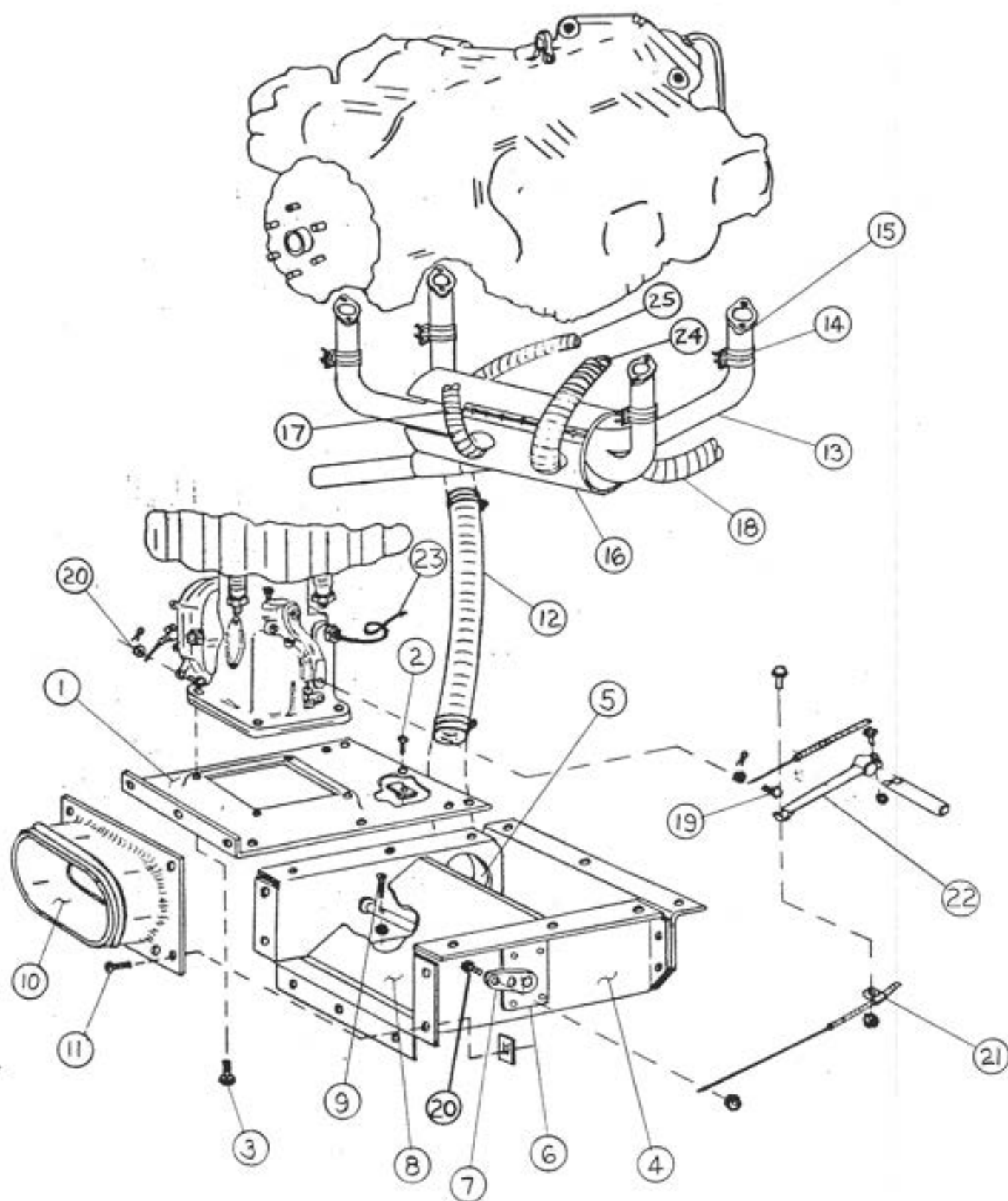


FIGURE 45

INSTALLATION - ENGINE INTAKE AND EXHAUST SYSTEM Reissued 5-1-79  
1974 MODELS AND UP (EXCEPT 180 HP)



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER                                           | DESCRIPTION                                                                                                     | UNITS<br>PER<br>ASS'Y   |
|----------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------|
| 45-                              | 4-1637<br>7-1413<br>7-1483-1                          | DRAWING - ASSEMBLY INJECTOR AIR BOX<br>DRAWING - INSTALLATION ENGINE<br>DRAWING - EXHAUST SYSTEM                |                         |
| 1                                | 3-1544                                                | AIR BOX COVER                                                                                                   | 1                       |
| 2                                | AN515-8-5<br>C420-832-1                               | SCREW (COVER ATTACHMENT)<br>NUT                                                                                 | 12<br>12                |
| 3                                | AN74A-3<br>21323                                      | BOLT (AIR BOX ATTACHMENT)<br>GASKET (LYCOMING)                                                                  | 4<br>1                  |
| 4                                | 3-1546                                                | AIR SCOOP BOX                                                                                                   | 1                       |
| 5                                | 1-3670-3<br>S1793 x .125<br>x .188                    | FLANGE<br>RIVET (FLANGE AND BACK ATTACHMENT)                                                                    | 1<br>9                  |
| 6                                | 1-10329<br>1-8960<br>1-10328<br>AN470AD4-7            | PLATE ASSEMBLY<br>BUSHING<br>PLATE<br>RIVET (PLATE ATTACHMENT)                                                  | 2<br>1<br>1<br>8        |
| 7                                | 1-8950-2                                              | SHAFT ASSEMBLY                                                                                                  | 1                       |
| 8                                | 2-2142                                                | VALVE                                                                                                           | 1                       |
| 9                                | AN515-8-12<br>AN363-832                               | SCREW (VALVE ATTACHMENT)<br>NUT                                                                                 | 2<br>2                  |
| 10                               | 2-2083                                                | COVER                                                                                                           | 1                       |
| 11                               | AN515-8-5<br>C420-832-1                               | SCREW - ATTACHMENT<br>NUT                                                                                       | 7<br>7                  |
| 12                               | 3-985-12<br>5912                                      | TUBE - FLEX INJECTOR AIR<br>CLAMP                                                                               | 1<br>2                  |
| 13                               | 099001-190                                            | MUFFLER SUB-ASSEMBLY                                                                                            | 1                       |
| 14                               | 099005-401<br>AN365-1032C<br>AN3-4A                   | BEAD CLAMP<br>NUT - ATTACHMENT<br>BOLT                                                                          | 8<br>16<br>16           |
| 15                               | 099001-120                                            | RISER ASSEMBLY                                                                                                  | 4                       |
| 16                               | 099001-703                                            | SHROUD ASSEMBLY                                                                                                 | 1                       |
| 17                               | 3-985-2<br>5912                                       | TUBE FLEX - RIGHT AIR INTAKE<br>CLAMP                                                                           | 1<br>2                  |
| 18                               | 3-985-29<br>5912                                      | TUBE FLEX - FRONT SEAT HEATER<br>CLAMP                                                                          | 1<br>2                  |
| 19                               | HF-3<br>AN3-7A<br>AN960-10L<br>AN365-1032<br>AN315-3R | THROTTLE CONTROL ATTACHMENT PART AT ENGINE<br>ROD END<br>BOLT<br>WASHER (BETWEEN ARM AND ROD END)<br>NUT<br>NUT | 1<br>1<br>1<br>1<br>1   |
| 20                               | 1-9995<br>AN960-416<br>AN310-4<br>AN380-2-2           | INJECTOR HEAT AND MIXTURE CONTROL ATTACHMENT<br>PART TO ENGINE<br>BOLT<br>WASHER<br>NUT<br>COTTER PIN           | 2<br>AS REQ'D<br>2<br>2 |

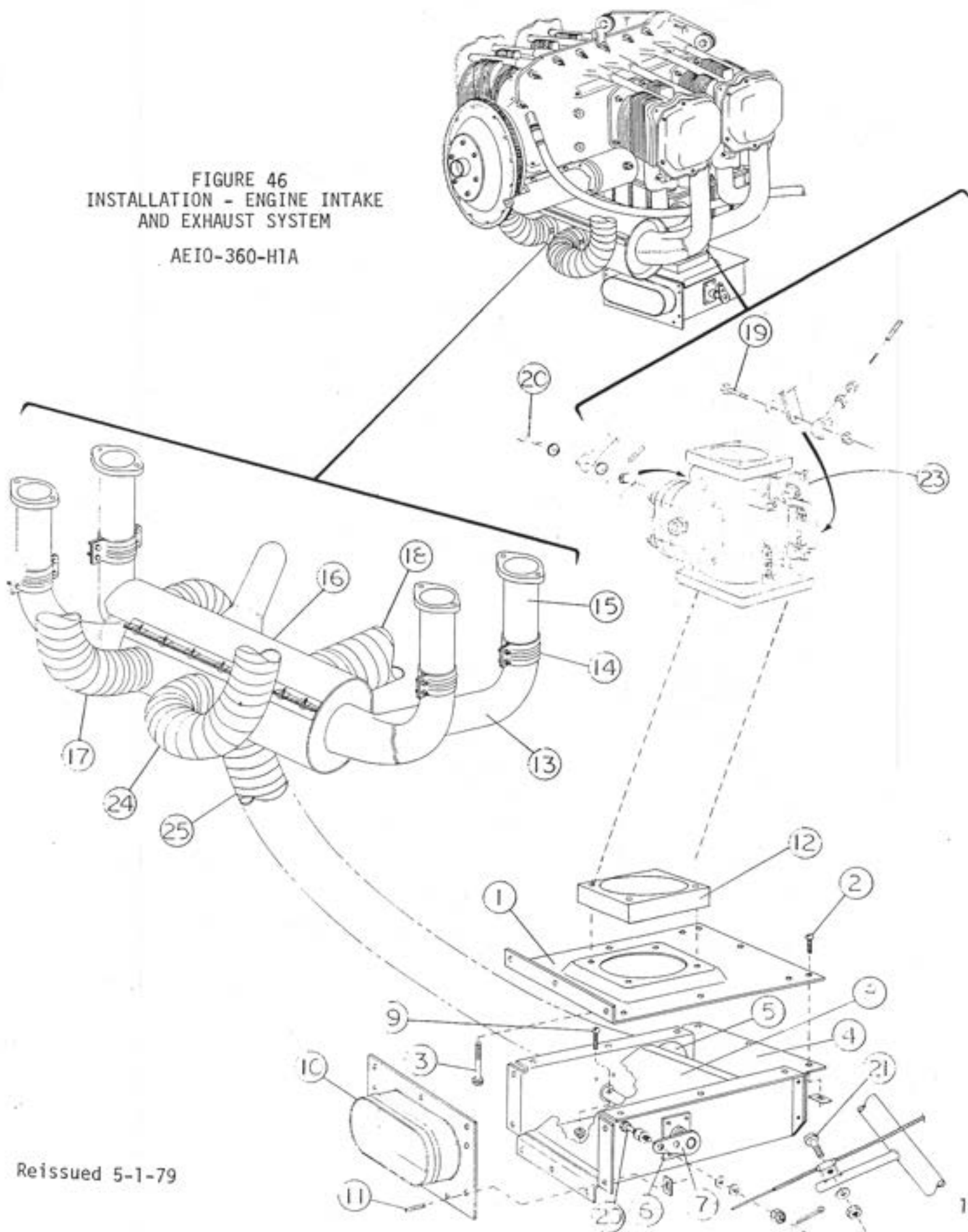


| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                                                    | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|----------------------------------------------------------------|-----------------------|
| 45-21                            | *           | INJECTOR HEAT AND MIXTURE CONTROL ATTACHMENT<br>PARTS TO MOUNT |                       |
|                                  | AN742-3     | CLAMP (MIXTURE CONTROL)                                        | 1                     |
|                                  | AN742-4     | CLAMP (INJECTOR HEAT)                                          | 1                     |
|                                  | AN3-4A      | BOLT                                                           | 2                     |
|                                  | 1-2362      | WASHER                                                         | 2                     |
|                                  | 1-2577-1    | SHIM (BRASS)                                                   | 2                     |
|                                  | AN960-10    | WASHER                                                         | 2                     |
|                                  | AN365-1032  | NUT                                                            | 2                     |
| 22                               | 2-1951      | BRACKET - MIXTURE CONTROL ATTACHMENT AT<br>MOUNT               | 1                     |
|                                  | AN4-7A      | BOLT                                                           | 1                     |
|                                  | AN960-416   | WASHER                                                         | 1                     |
|                                  | AN365-428   | NUT                                                            | 1                     |
| 23                               | 1-9865      | FITTING INJECTOR                                               | 1                     |
|                                  | 74225       | FITTING LYCOMING                                               | 1                     |
|                                  | 1-9667-12   | FUEL PRESSURE LINE                                             | 1                     |
| 24                               | 3-985-12    | FLEX TUBE AIR INTAKE (LEFT SIDE)                               | 1                     |
|                                  | 5912        | CLAMP                                                          | 2                     |
| 25                               | 3-985-25    | FLEX TUBE - REAR SEAT HEATER                                   | 1                     |
|                                  | 5912        | CLAMP                                                          | 2                     |



FIGURE 46  
INSTALLATION - ENGINE INTAKE  
AND EXHAUST SYSTEM

AEIO-360-H1A



Reissued 5-1-79

| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER                                            | DESCRIPTION                                                                                                     | UNITS<br>PER<br>ASS'Y |
|----------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------|
| 46-                              | 4-1637<br>7-1413<br>7-1483-1                           | DRAWING - ASSEMBLY INJECTOR AIR BOX<br>DRAWING - INSTALLATION ENGINE<br>DRAWING - EXHAUST SYSTEM                |                       |
| 1                                | 3-1544                                                 | AIR BOX COVER                                                                                                   | 1                     |
| 2                                | AN515-8-5<br>C420-832-1                                | SCREW (COVER ATTACHMENT)<br>NUT                                                                                 | 12<br>12              |
| 3                                | AN74A-3                                                | BOLT (AIR BOX ATTACHMENT)                                                                                       | 4                     |
| 4                                | 3-1546                                                 | AIR SCOOP BOX                                                                                                   | 1                     |
| 5                                | 1-3670-3<br>S1793 x .125<br>x .188                     | FLANGE<br>RIVET (FLANGE AND BACK ATTACHMENT)                                                                    | 1<br>9                |
| 6                                | 1-10329<br>1-8960<br>1-10328<br>AN470AD4-7             | PLATE ASSEMBLY<br>BUSHING<br>PLATE<br>RIVET (PLATE ATTACHMENT)                                                  | 2<br>1<br>1<br>8      |
| 7                                | 1-8950-2                                               | SHAFT ASSEMBLY                                                                                                  | 1                     |
| 8                                | 2-2142                                                 | VALVE                                                                                                           | 2                     |
| 9                                | AN515-8-12<br>AN363-832                                | SCREW (VALVE ATTACHMENT)<br>NUT                                                                                 | 2<br>1                |
| 10                               | 2-2083                                                 | COVER                                                                                                           | 7                     |
| 11                               | AN515-8-5<br>C420-832-1                                | SCREW - ATTACHMENT<br>NUT                                                                                       | 7<br>1                |
| 12                               | 1-10526                                                | SPACER                                                                                                          |                       |
| 13                               | 099001-193                                             | MUFFLER SUB-ASSEMBLY                                                                                            | 8                     |
| 14                               | 099005-401<br>AN365-1032C<br>AN3-4A                    | BEAD CLAMP<br>NUT - ATTACHMENT<br>BOLT                                                                          | 16<br>16<br>4         |
| 15                               | 099001-120                                             | RISER ASSEMBLY                                                                                                  | 1                     |
| 16                               | 099001-703                                             | SHROUD ASSEMBLY                                                                                                 | 1                     |
| 17                               | 3-985-2<br>5912                                        | TUBE FLEX - RIGHT AIR INTAKE<br>CLAMP                                                                           | 2<br>1                |
| 18                               | 3-985-29<br>5912                                       | TUBE FLEX - FRONT SEAT HEATER<br>CLAMP                                                                          | 2                     |
| 19                               | HF-3<br>AN3-7A<br>AN960-10L<br>AN365-1032<br>AN315-3R  | THROTTLE CONTROL ATTACHMENT PART AT ENGINE<br>ROD END<br>BOLT<br>WASHER (BETWEEN ARM AND ROD END)<br>NUT<br>NUT | 1<br>1<br>1<br>1<br>1 |
| 20                               |                                                        | INJECTOR AIR AND MIXTURE CONTROL ATTACHMENT<br>PARTS TO ENGINE<br>BOLT<br>WASHER                                | 2<br>AS REQ'D         |
| 21                               | 1-9995<br>AN960-416<br>or 416L<br>AN310-4<br>AN380-2-2 | NUT<br>COTTER PIN<br>INJECTOR HEAT AND MIXTURE CONTROL ATTACHMENT<br>PARTS TO MOUNT                             | 2<br>2                |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER   | DESCRIPTION                                       | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------|---------------------------------------------------|-----------------------|
| 46-                              | AN742-3       | CLAMP (MIXTURE CONTROL)                           | 1                     |
|                                  | AN742-4       | CLAMP (INJECTOR HEAT)                             | 1                     |
|                                  | AN3-4A        | BOLT                                              | 2                     |
|                                  | 1-2362        | WASHER                                            | 2                     |
|                                  | 1-2577-1      | SHIM (BRASS)                                      | 2                     |
|                                  | AN960-10      | WASHER                                            | 2                     |
|                                  | AN365-1032    | NUT                                               | 2                     |
| 23                               |               | FUEL PRESSURE LINE INSTALLATION                   |                       |
|                                  | 1-9865        | FITTING INJECTOR                                  | 1                     |
|                                  | 74225         | FITTING LYCOMING                                  | 1                     |
|                                  | 1-9667-12     | FUEL PRESSURE LINE                                | 1                     |
| 24                               | 3-985-12      | FLEX TUBE AIR INTAKE (LEFT SIDE)                  | 1                     |
|                                  | 5912          | CLAMP                                             | 2                     |
| 25                               | 3-985-12      | TUBE - FLEX - ALTERNATE AIR                       | 1                     |
|                                  | 5912          | CLAMP                                             | 2                     |
| *26                              | 3-985-25      | FLEX TUBE - REAR SEAT HEATER                      | 1                     |
|                                  | 5912          | CLAMP                                             | 2                     |
| *27                              | 2-2167        | LINE - FUEL (GASCOLATOR TO ELECTRIC<br>FUEL PUMP) | 1                     |
| *28                              | A-8110-G      | FUEL PUMP (ELECTRIC)                              | 1                     |
|                                  | AN737TW-91    | CLAMP                                             | 1                     |
|                                  | RA2000-5-6    | ELBOW                                             | 2                     |
|                                  | 2-2111-2      | DRAIN LINE - ELECTRIC FUEL PUMP                   | 1                     |
|                                  | AN823-4D      | ELBOW                                             | 1                     |
| *29                              | 624117-5-0155 | HOSE - ELECTRIC FUEL PUMP TO ENGINE<br>FUEL PUMP  | 1                     |
| *NOTE: PARTS NOT SHOWN.          |               |                                                   |                       |

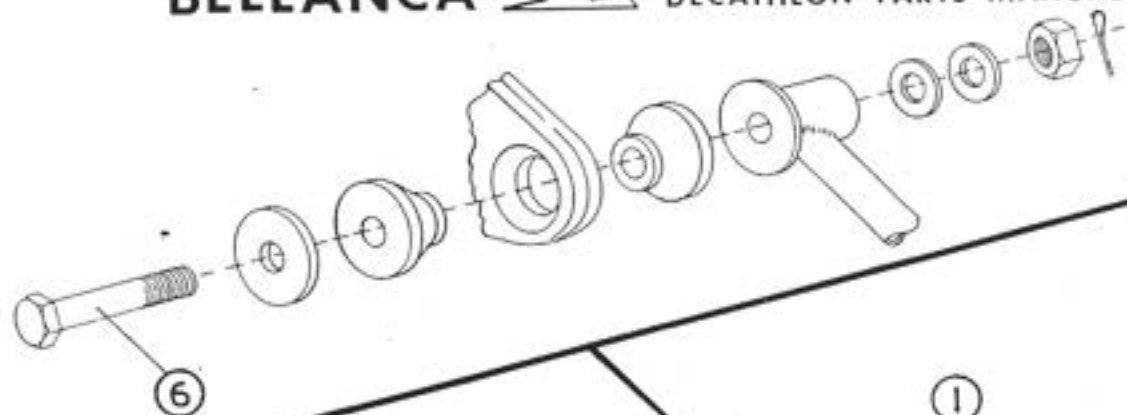
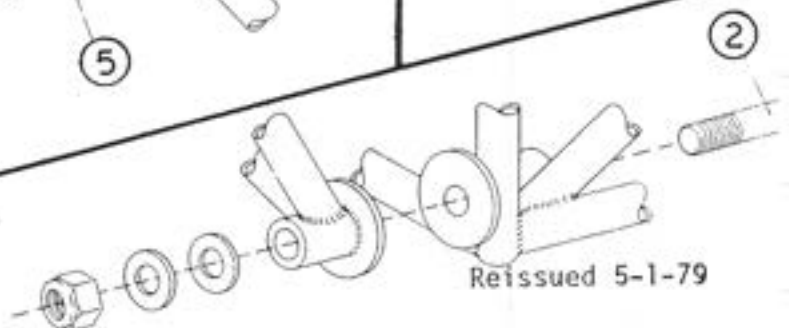
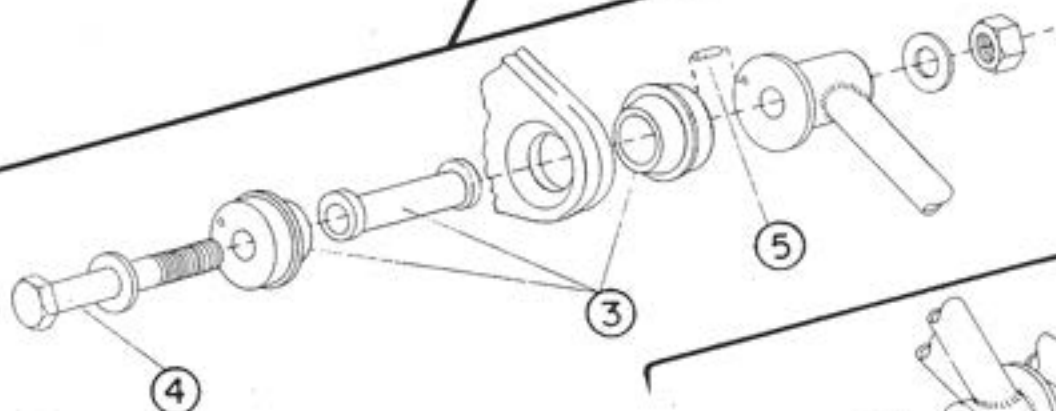
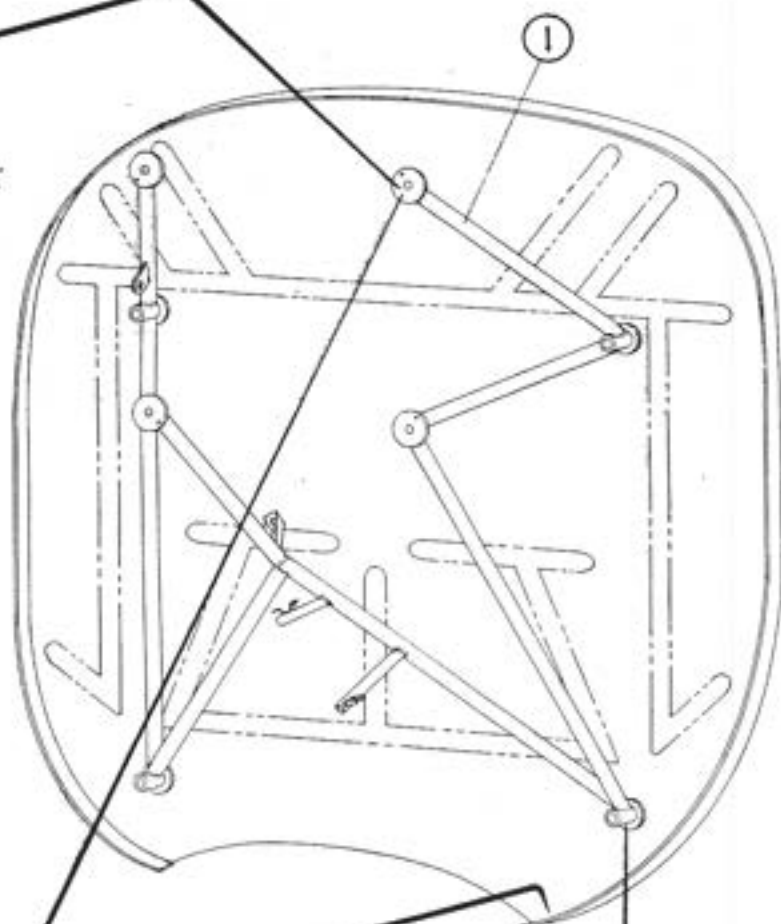


FIGURE 47  
INSTALLATION - ENGINE MOUNT  
APPLICABLE EARLY  
(150 HP) MODELS





| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER | DESCRIPTION                           | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-------------|---------------------------------------|-----------------------|
| 47-                              | 7-1413      | DRAWING - INSTALLATION - ENGINE MOUNT |                       |
| 1                                | 4-1033-10   | MOUNT                                 | 1                     |
| 2                                | AN7-32      | BOLT                                  | 4                     |
|                                  | AN365-720   | NUT                                   | 4                     |
|                                  | AN960-716   | WASHER                                | 4                     |
| 3                                | J-6230-1    | BUSHING KIT (LORD)                    | 4                     |
| 4                                | AN8-44      | BOLT                                  | 4                     |
|                                  | AN365-820   | NUT                                   | 4                     |
|                                  | AN960-816   | WASHER                                | 8                     |
| 5                                | MS9048-096  | ROLL PIN                              | 4                     |
| 6                                | AN8-42      | BOLT                                  | 4                     |
|                                  | AN310-8     | NUT                                   | 4                     |
|                                  | AN380-3-3   | COTTER PIN                            | 4                     |
|                                  | AN960-816   | WASHER                                | 8                     |
|                                  |             | LARGE WASHERS (CF)                    | 4                     |
|                                  |             | 71032 RUBBER BUSHINGS (CF)            | 8                     |

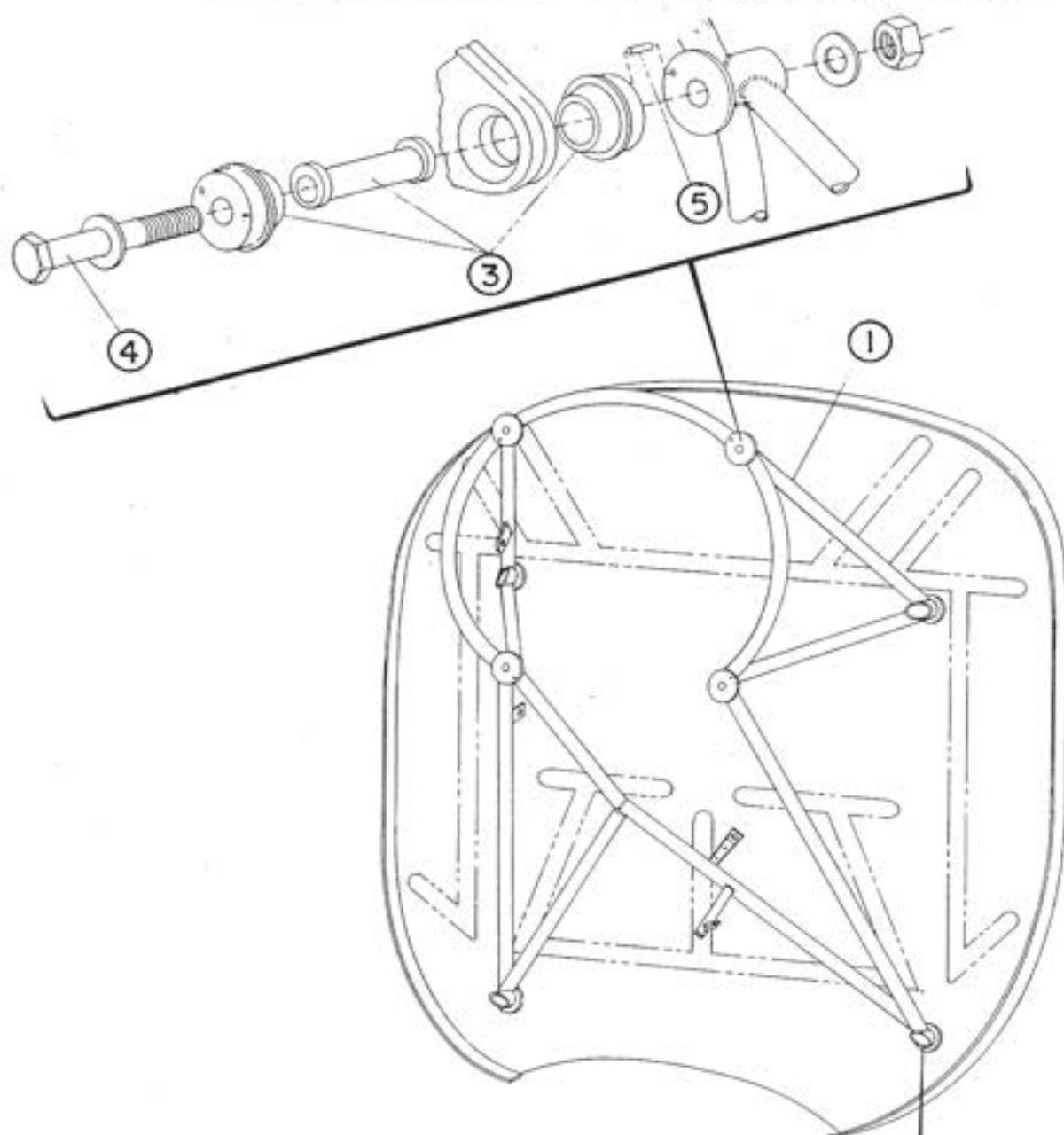
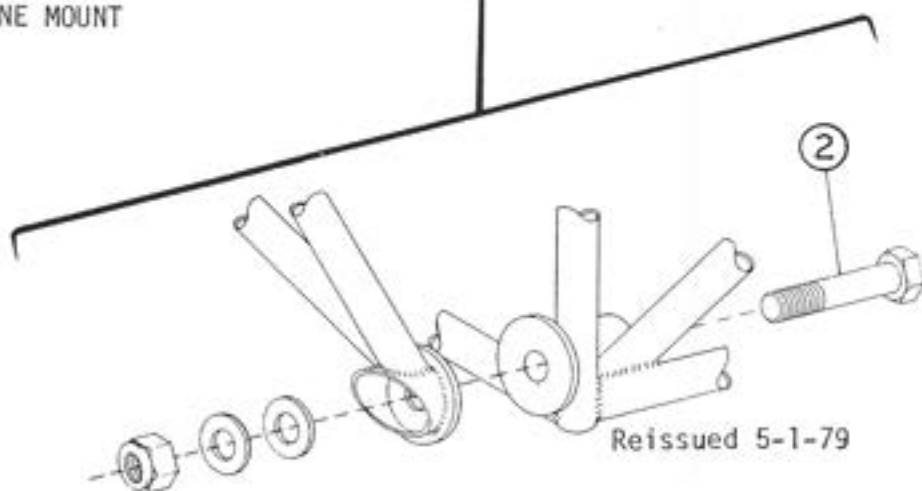


FIGURE 48  
INSTALLATION - ENGINE MOUNT  
LATER MODELS



Reissued 5-1-79



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER                | DESCRIPTION                                                                                                             | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 48-                              | 7-1413<br>7-1502<br>7-1523 | DRAWING - INSTALLATION - ENGINE MOUNT<br>DRAWING - INSTALLATION - ENGINE MOUNT<br>DRAWING - INSTALLATION - ENGINE MOUNT |                       |
| 1                                | 7-1503                     | MOUNT                                                                                                                   | 1                     |
| 2                                | AN7-21A                    | BOLT                                                                                                                    | 4                     |
|                                  | AN365-720                  | NUT                                                                                                                     | 4                     |
| 3                                | AN960-716                  | WASHER                                                                                                                  | 8                     |
|                                  | J-6230-1                   | BUSHING KIT (LORD)                                                                                                      | 4                     |
| 4                                | AN8-44                     | BOLT                                                                                                                    | 4                     |
|                                  | AN365-820                  | NUT                                                                                                                     | 4                     |
|                                  | AN960-816                  | WASHER                                                                                                                  | 8                     |
| 5                                | MS9048-096                 | ROLL PIN                                                                                                                | 4                     |

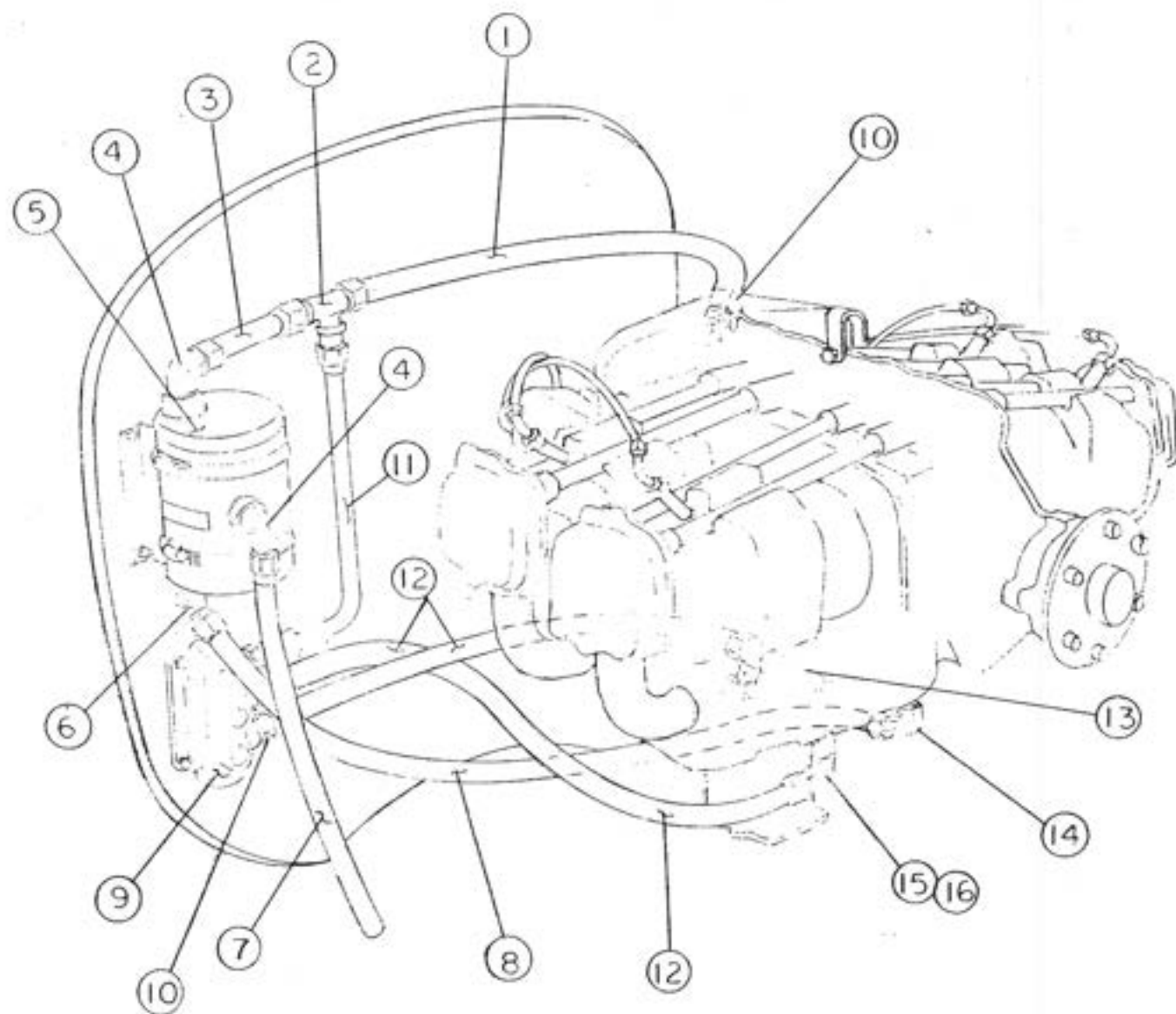


FIGURE 49  
INSTALLATION - LYCOMING CHRISTEN  
OIL SYSTEM  
AE10-320-E1B



| FIGURE<br>AND<br>INDEX<br>NUMBER                                                     | PART NUMBER  | DESCRIPTION                                | UNITS<br>PER<br>ASS'Y |
|--------------------------------------------------------------------------------------|--------------|--------------------------------------------|-----------------------|
| 49-                                                                                  | 7-1413       | DRAWING - INSTALLATION ENGINE AE10-320-E1B |                       |
| 1                                                                                    | 2-2128       | HOSE ASSEMBLY (TO ENGINE BREATHER)         | 1                     |
| 2                                                                                    | AN834-10D    | TEE                                        | 1                     |
| 3                                                                                    | 1-10449      | LINE ASSEMBLY                              | 1                     |
| 4                                                                                    | AN822-10-12D | ELBOW 90°                                  | 2                     |
| 5                                                                                    | LW-13749     | SEPARATOR CAN (LYCOMING)                   | 1                     |
|                                                                                      | AN3-4A       | BOLT - SEPARATOR ATTACHMENT                | 4                     |
|                                                                                      | AN960-10     | WASHER                                     | 4                     |
| 6                                                                                    | AN823-10D    | ELBOW 45°                                  | 1                     |
| 7                                                                                    | 2-2129       | ASSEMBLY LINE                              | 1                     |
| 8                                                                                    | 2-2126       | HOSE ASSEMBLY (TO ENGINE SUMP)             | 1                     |
| 9                                                                                    | LW13750      | VALVE (LYCOMING)                           | 1                     |
|                                                                                      | AN3-5A       | BOLT - VALVE ATTACHMENT                    | 4                     |
| 10                                                                                   | AN816-10D    | NIPPLE                                     | 4                     |
| 11                                                                                   | 2-2130       | ASSEMBLY LINE                              | 1                     |
| 12                                                                                   | 2-2127       | HOSE ASSEMBLY                              | 2                     |
| 13                                                                                   | LW13753      | FITTING (LYCOMING)                         | 1                     |
| 14                                                                                   | LW13754      | FITTING (LYCOMING)                         | 1                     |
| 15                                                                                   | LW13871      | FITTING (LYCOMING)                         | 1                     |
| 16                                                                                   | AN822-10D    | ELBOW                                      | 1                     |
| <p><u>NOTE:</u> 8KCAB EQUIPPED WITH LYCOMING CHRISTEN OIL SYSTEM S/N 175 AND UP.</p> |              |                                            |                       |

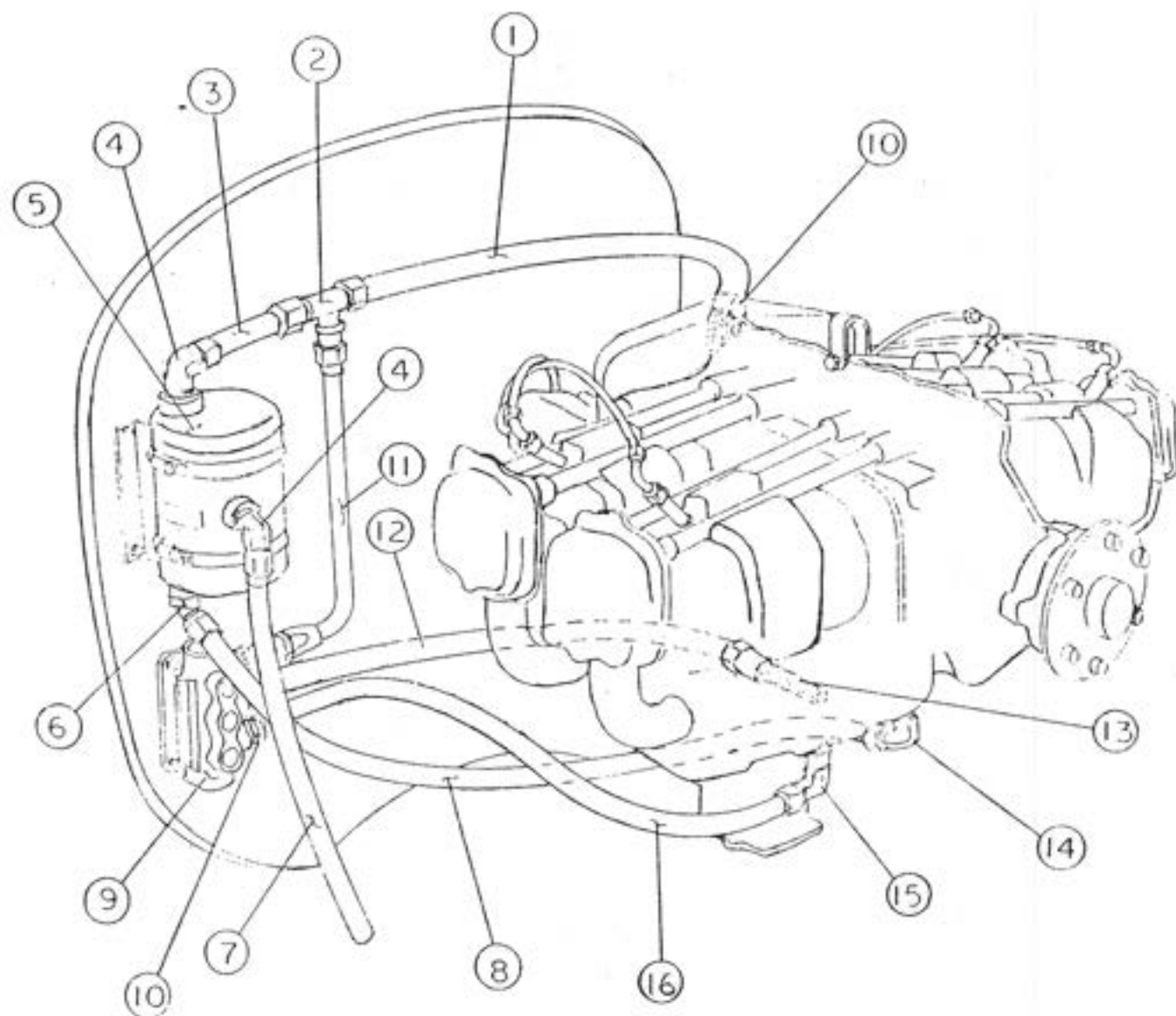
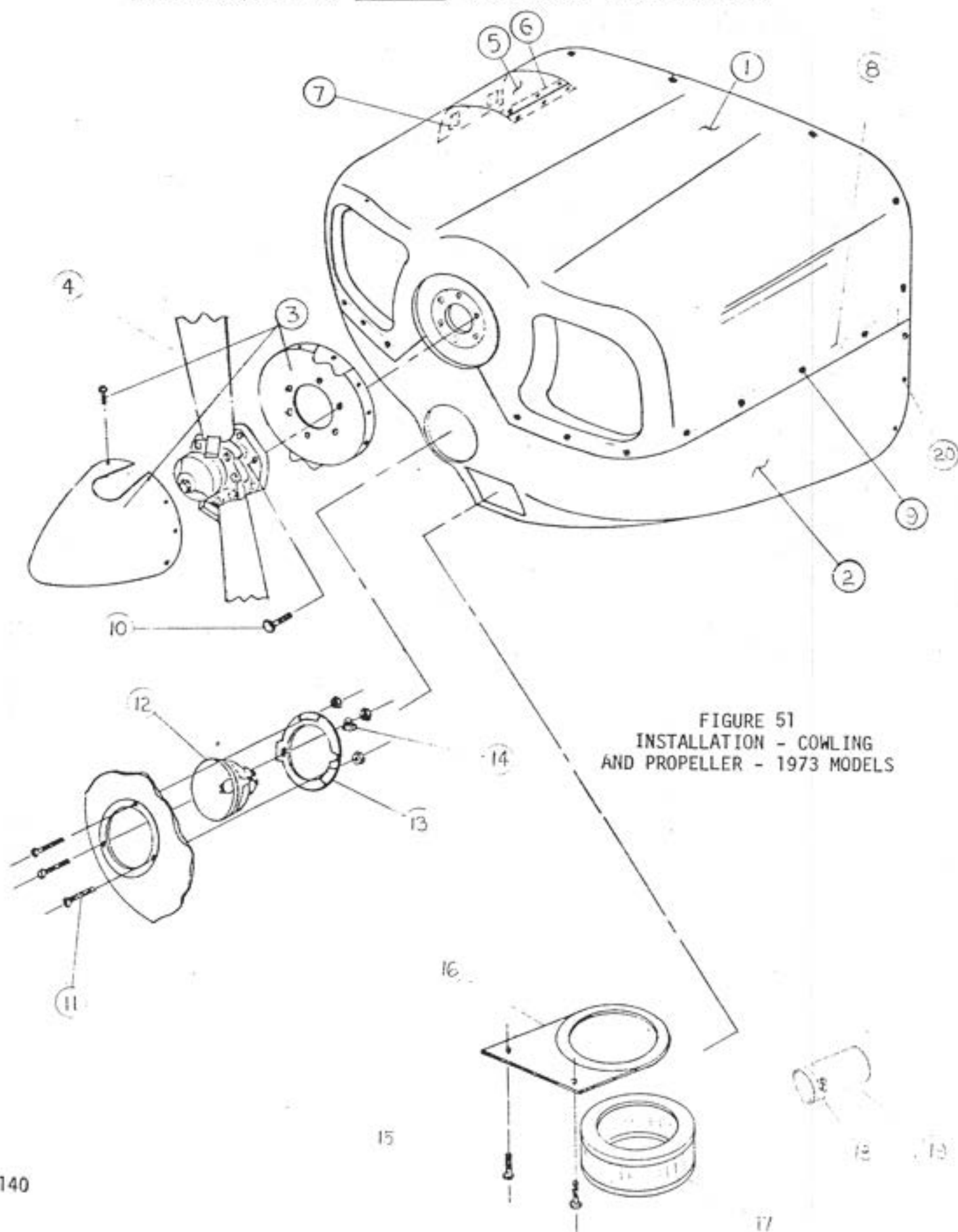


FIGURE 50  
 INSTALLATION - LYCOMING CHRISTEN  
 OIL SYSTEM  
 AEIO-360-H1A



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER  | DESCRIPTION                                | UNITS<br>PER<br>ASS'Y |
|----------------------------------|--------------|--------------------------------------------|-----------------------|
| 50-                              | 7-1502       | DRAWING - INSTALLATION ENGINE AEIO-360-H1A |                       |
| 1                                | 2-2128       | HOSE ASSEMBLY (TO ENGINE BREATHER)         | 1                     |
| 2                                | AN834-10D    | TEE                                        | 1                     |
| 3                                | 1-10449      | LINE ASSEMBLY                              | 1                     |
| 4                                | AN822-10-12D | ELBOW 90°                                  | 1                     |
| 5                                | LW-13749     | SEPARATOR CAN (LYCOMING)                   | 2                     |
|                                  | AN3-4A       | BOLT - SEPARATOR ATTACHMENT                | 1                     |
|                                  | AN960-10     | WASHER                                     | 4                     |
| 6                                | AN823-10D    | ELBOW 45°                                  | 4                     |
| 7                                | 2-2129       | ASSEMBLY LINE                              | 1                     |
| 8                                | 2-2126       | HOSE ASSEMBLY (TO ENGINE SUMP)             | 1                     |
| 9                                | LW-13750     | VALVE (LYCOMING)                           | 1                     |
|                                  | AN3-5A       | BOLT - VALVE ATTACHMENT                    | 1                     |
| 10                               | AN816-10D    | NIPPLE                                     | 4                     |
| 11                               | 2-2177       | ASSEMBLY LINE                              | 4                     |
| 12                               | 2-2171       | HOSE ASSEMBLY                              | 1                     |
| 13                               | LW-13752     | PLUG - FORWARD SCREEN                      | 2                     |
|                                  | 70484        | SCREEN                                     | 1                     |
|                                  | LW-14035     | FITTING - SUMP                             | 1                     |
| 14                               | LW-13754     | FITTING (LYCOMING)                         | 1                     |
| 15                               | LW-13753     | FITTING (LYCOMING)(SUMP OIL PICKUP)        | 1                     |
| 16                               | 2-2128       | HOSE ASSEMBLY                              | 1                     |

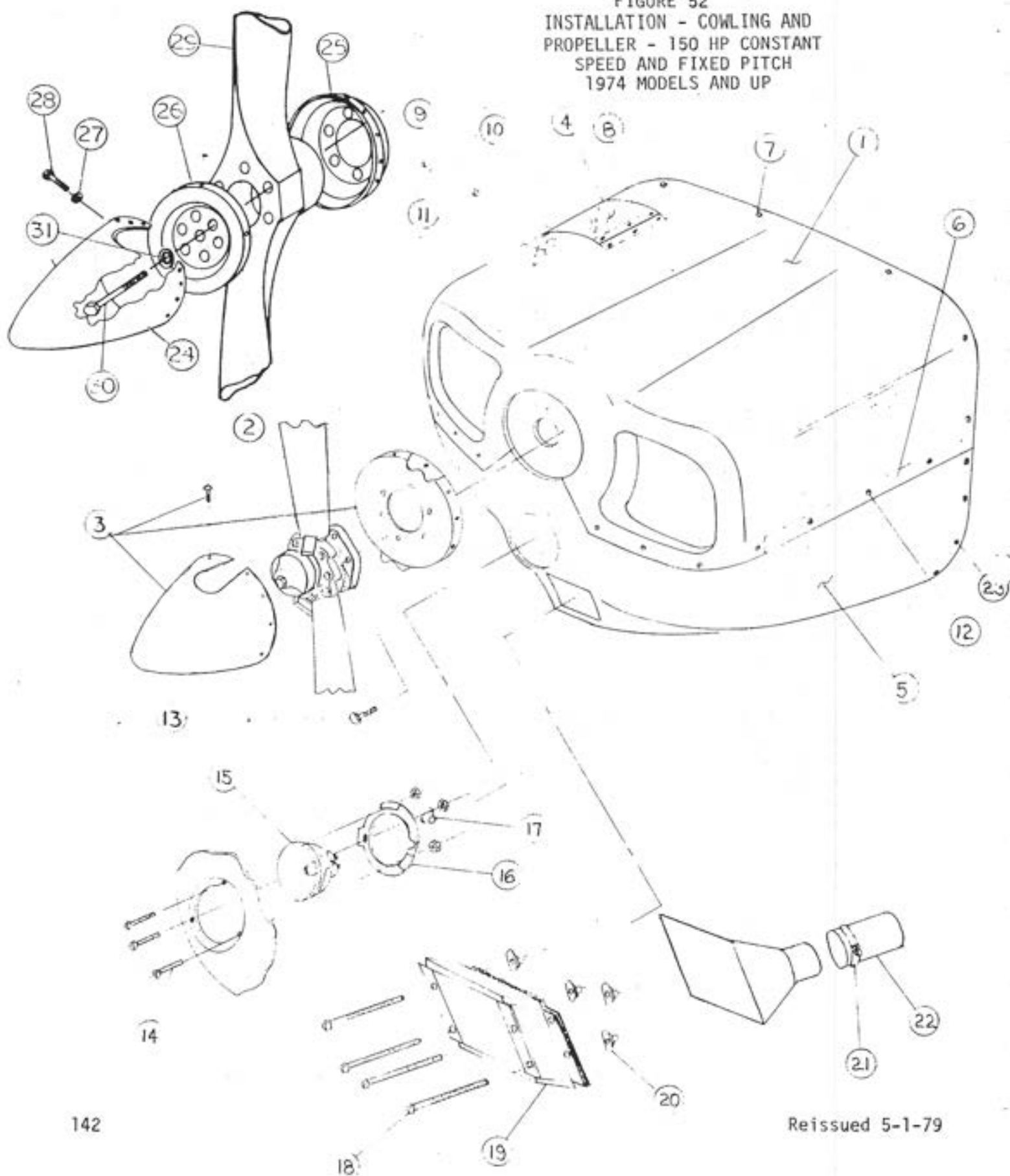




| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER           | DESCRIPTION                                                                                                   | UNITS<br>PER<br>ASS'Y |
|----------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------|-----------------------|
| 51-                              | 4-1620<br>7-1417      | DRAWING - INSTALLATION AND ASSEMBLY ENGINE COWL<br>DRAWING - INSTALLATION - CONSTANT SPEED PROP<br>(HARTZELL) |                       |
| 1                                | 7-1455-1              | UPPER COWL                                                                                                    | 1                     |
| 2                                | 7-1455-3              | LOWER COWL                                                                                                    | 1                     |
| 3                                | 836-52                | SPINNER ASSEMBLY (HARTZELL)                                                                                   | 1                     |
|                                  | C-2495                | SPINNER DOME                                                                                                  | 1                     |
|                                  | AN526C1032R7          | SCREWS - DOME                                                                                                 | 14                    |
|                                  | C-2469                | BULKHEAD UNIT                                                                                                 | 1                     |
| 4                                | HC-C2YL-4/<br>C7663-4 | PROPELLER (HARTZELL)                                                                                          | 1                     |
| 5                                | 3-1532                | ACCESS DOOR                                                                                                   | 1                     |
| 6                                | AN257-4-700           | HINGE                                                                                                         | 1                     |
| 7                                | H5000-2-081-<br>188   | LOCK                                                                                                          | 2                     |
| 8                                | 2-1890-1              | ANGLE                                                                                                         | 2                     |
| 9                                | 2600-5                | STUD                                                                                                          | 20                    |
|                                  | 212-12                | RECEPTACLE                                                                                                    | 20                    |
| 10                               | A-2476-4              | KIT - SPINNER MOUNTING                                                                                        | 1                     |
|                                  | A-2246-4              | SPACER                                                                                                        | 6                     |
|                                  | A-2433                | BOLT                                                                                                          | 6                     |
|                                  | AN960-616             | WASHER                                                                                                        | A/R                   |
| 11                               | AN526-832-12          | SCREW                                                                                                         | 3                     |
|                                  | AN365-832             | NUT                                                                                                           | 3                     |
| 12                               | 4509                  | LAMP                                                                                                          | 1                     |
| 13                               | 2-1912                | BRACKET                                                                                                       | 1                     |
| 14                               | MS21919DF4            | CLAMP                                                                                                         | 4                     |
| 15                               | AN526-1032-12         | SCREW                                                                                                         | 2                     |
|                                  | 22NA1-02              | PLATE NUT                                                                                                     | 2                     |
| 16                               | 3-1388                | SHIM                                                                                                          | 1                     |
| 17                               | CA-121PL              | AIR FILTER                                                                                                    | 1                     |
| 18                               | 5924                  | CLAMP                                                                                                         | 1                     |
| 19                               | 7-1475-4              | TUBE                                                                                                          | 1                     |
| 20                               | AN526-1032-1          | SCREW                                                                                                         | 10                    |
|                                  | AN960-10L             | WASHER                                                                                                        | 10                    |



FIGURE 52  
INSTALLATION - COWLING AND  
PROPELLER - 150 HP CONSTANT  
SPEED AND FIXED PITCH  
1974 MODELS AND UP





| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER                                  | DESCRIPTION                                                                                                                              | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 52-                              | 3-7397<br>7-1475<br>7-1509                   | DRAWING - INSTALLATION SPINNER FIXED PITCH<br>DRAWING - INSTALLATION AND ASSEMBLY - COWL<br>DRAWING - INSTALLATION - CONSTANT SPEED PROP |                       |
| 1                                | 7-1469-1                                     | UPPER COWL                                                                                                                               | 1                     |
| 2                                | HC-C2YL-4BF/<br>FC7663-4                     | PROPELLER (HARTZELL) CONSTANT SPEED                                                                                                      | 1                     |
| 3                                | 836-52<br>C-2495<br>AN526C1032R7<br>C-2469   | SPINNER ASSEMBLY (HARTZELL) CONSTANT SPEED<br>SPINNER DOME<br>SCREWS - DOME<br>BULKHEAD UNIT                                             | 1<br>1<br>14<br>1     |
| 4                                | 3-1561                                       | ACCESS DOOR                                                                                                                              | 1                     |
| 5                                | 7-1469-2                                     | LOWER COWL                                                                                                                               | 1                     |
| 6                                | 2-1889                                       | ANGLE                                                                                                                                    | 1                     |
| 7                                | 85-11-140-16<br>85-34-101-17<br>85-47-101-15 | STUD<br>RETAINER RING<br>RECEPTACLE                                                                                                      | 2<br>6<br>6           |
| 8                                | AN275-4-650                                  | HINGE                                                                                                                                    | 6                     |
| 9                                | LP22T82S8                                    | SCREW                                                                                                                                    | 1                     |
| 10                               | S8                                           | RIVNUT                                                                                                                                   | 1                     |
| 11                               | H5000-2-081-<br>188                          | LOCK                                                                                                                                     | 2                     |
| 12                               | 85-11-240-16<br>85-34-101-17<br>85-47-101-15 | STUD<br>RETAINER RING<br>RECEPTACLE                                                                                                      | 14<br>14<br>14        |
| 13                               | A-2476-4<br>A-2246-4<br>A-2433<br>AN960-616  | KIT - SPINNER MOUNTING (CONSTANT SPEED)<br>SPACER<br>BOLT<br>WASHER                                                                      | 1<br>6<br>6<br>A/R    |
| 14                               | AN526-832-12<br>AN365-832                    | SCREW<br>NUT                                                                                                                             | 3<br>3                |
| 15                               | 4509                                         | LAMP                                                                                                                                     | 1                     |
| 16                               | 2-1912                                       | BRACKET                                                                                                                                  | 1                     |
| 17                               | MS21919-DF4                                  | CLAMP                                                                                                                                    | 4                     |
| 18                               | AN520-10-40                                  | SCREW                                                                                                                                    | 4                     |
| 19                               | P10-4145                                     | AIR FILTER                                                                                                                               | 1                     |
| 20                               | RM52LHTA521-02                               | PLATE NUT                                                                                                                                | 4                     |
| 21                               | 5924                                         | CLAMP                                                                                                                                    | 1                     |
| 22                               | 7-1475-4                                     | TUBE                                                                                                                                     | 1                     |
| 23                               | AN526-1032-10<br>AN960-10L                   | SCREW<br>WASHER                                                                                                                          | 10<br>10              |
| 24                               | 4-1406                                       | SPINNER (FIXED PITCH)                                                                                                                    | 1                     |
| 25                               | 3-1362                                       | BACKPLATE (FIXED PITCH)                                                                                                                  | 1                     |
| 26                               | 4-1387                                       | BULKHEAD (FIXED PITCH)                                                                                                                   | 1                     |
| 27                               | 1-8801                                       | WASHER (FIXED PITCH)                                                                                                                     | 14                    |
| 28                               | NAS-221-9                                    | SCREW (FIXED PITCH)                                                                                                                      | 14                    |
| 29                               | 74DM6S8-0-58                                 | PROPELLER (FIXED PITCH)                                                                                                                  | 14                    |
| 30                               | AN6H-61AS                                    | BOLT (FIXED PITCH)                                                                                                                       | 6                     |
| 31                               | AN960-616                                    | WASHER (FIXED PITCH)                                                                                                                     | 6                     |



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER                                                          | DESCRIPTION | UNITS<br>PER<br>ASS'Y |
|----------------------------------|----------------------------------------------------------------------|-------------|-----------------------|
| 52-*32                           | B210688                                                              | GOVERNOR    | 1                     |
|                                  | 2-2168                                                               | CONTROL     | 1                     |
|                                  | 1-10126                                                              | PLACARD     | 1                     |
|                                  | 1-10195-1                                                            | COVER       | 1                     |
|                                  | AN3-10A                                                              | BOLT        | 1                     |
|                                  | AN315-3R                                                             | NUT         | 1                     |
|                                  | AN365-1032                                                           | NUT         | 1                     |
|                                  | AN960-10                                                             | WASHER      | 1                     |
|                                  | HF-3                                                                 | ROD END     | 1                     |
|                                  | *NOTE: PARTS NOT SHOWN (REQ'D WITH CONSTANT SPEED PROP INSTALLATION) |             |                       |

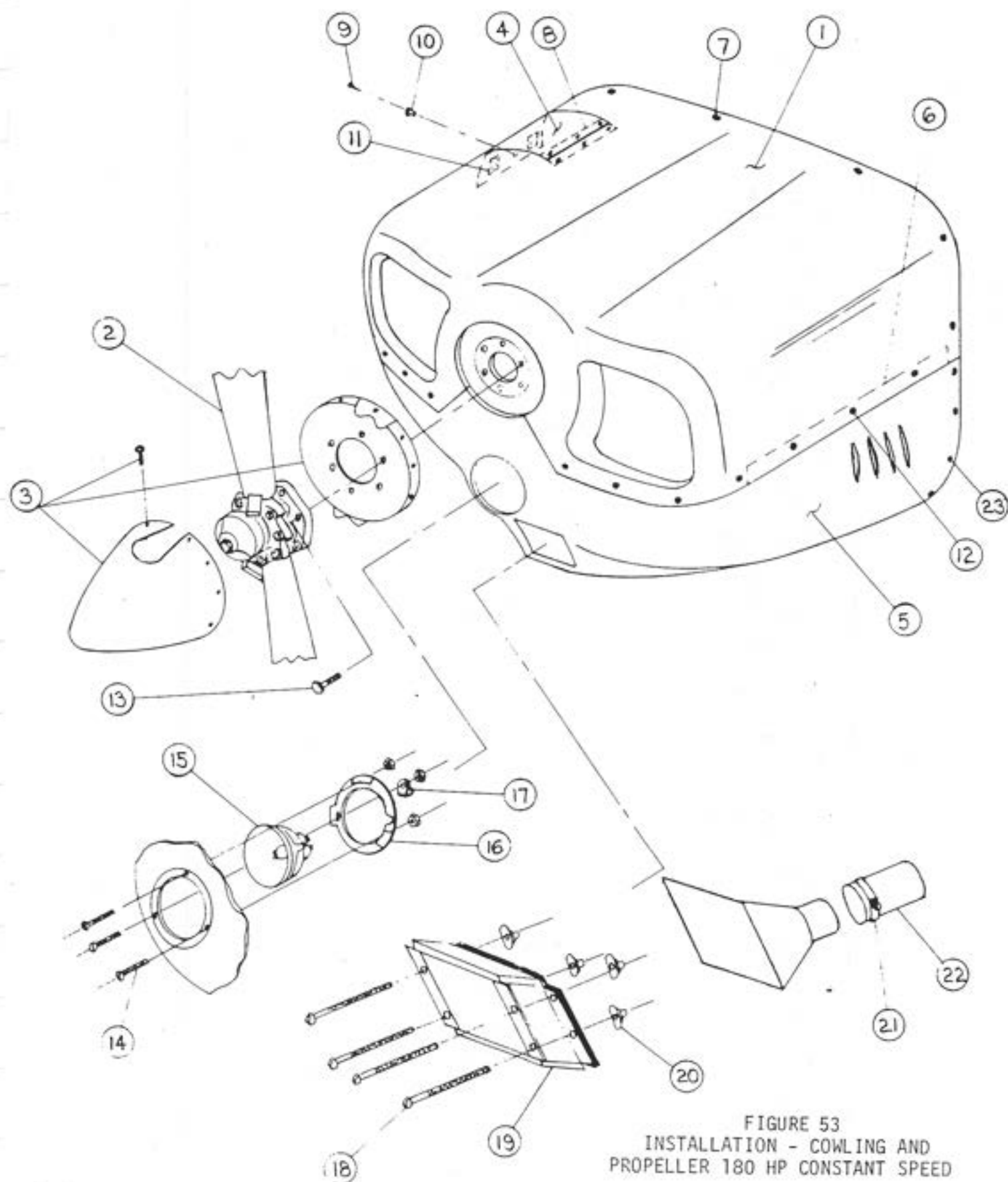


FIGURE 53  
INSTALLATION - COWLING AND  
PROPELLER 180 HP CONSTANT SPEED



| FIGURE<br>AND<br>INDEX<br>NUMBER | PART NUMBER               | DESCRIPTION                                                                                 | UNITS<br>PER<br>ASS'Y |
|----------------------------------|---------------------------|---------------------------------------------------------------------------------------------|-----------------------|
| 53-                              | 7-1509<br>7-1517          | DRAWING - INSTALLATION CONSTANT SPEED PROPELLER<br>DRAWING - INSTALLATION AND COWL ASSEMBLY |                       |
| 1                                | 7-1482-1                  | UPPER COWLING                                                                               | 1                     |
| 2                                | HC-C2YR-4CF/<br>FC7666A-1 | PROPELLER (HARTZELL)                                                                        | 1                     |
| 3                                | 836-52                    | SPINNER ASSEMBLY (HARTZELL)                                                                 | 1                     |
|                                  | C-2495                    | SPINNER DOME                                                                                | 1                     |
|                                  | AN526C1032R7              | SCREW - DOME                                                                                | 14                    |
|                                  | C-2469                    | BULKHEAD UNIT                                                                               | 1                     |
| 4                                | 3-1561                    | ACCESS DOOR COWL                                                                            | 1                     |
| 5                                | 7-1482-2                  | LOWER COWLING                                                                               | 1                     |
| 6                                | 2-1889                    | ANGLE                                                                                       | 2                     |
| 7                                | 85-11-140-16              | STUD                                                                                        | 6                     |
|                                  | 85-34-101-17              | RETAINER RING                                                                               | 6                     |
|                                  | 85-47-101-15              | RECEPTACLE                                                                                  | 6                     |
| 8                                | AN275-4-650               | HINGE                                                                                       | 1                     |
| 9                                | LP22T8258                 | SCREW                                                                                       | 1                     |
| 10                               | 58                        | RIVNUT                                                                                      | 1                     |
| 11                               | H5000-2-081-188           | LOCK                                                                                        | 2                     |
| 12                               | 85-11-240-16              | STUD                                                                                        | 14                    |
|                                  | 85-34-101-17              | RETAINER RING                                                                               | 14                    |
|                                  | 85-47-101-15              | RECEPTACLE                                                                                  | 14                    |
| 13                               | A-2476-4                  | KIT - SPINNER MOUNTING (HARTZELL)                                                           | 1                     |
|                                  | A-2246-4                  | SPACER                                                                                      | 6                     |
|                                  | A-2433                    | BOLT                                                                                        | 6                     |
|                                  | AN960-616                 | WASHER                                                                                      | A/R                   |
| 14                               | AN526-832-12              | SCREW                                                                                       | 3                     |
|                                  | AN365-832                 | NUT                                                                                         | 3                     |
| 15                               | 4509                      | LAMP                                                                                        | 1                     |
| 16                               | 2-1912                    | BRACKET                                                                                     | 1                     |
| 17                               | MS21919-DF4               | CLAMP                                                                                       | 1                     |
| 18                               | AN520-10-40               | SCREW                                                                                       | 4                     |
| 19                               | P10-4145                  | AIR FILTER                                                                                  | 1                     |
| 20                               | RM52LHT521-02             | PLATE NUT                                                                                   | 4                     |
| 21                               | 5924                      | CLAMP                                                                                       | 1                     |
| 22                               | 7-1475-4                  | TUBE                                                                                        | 1                     |
| 23                               | AN526-1032-10             | SCREW                                                                                       | 10                    |
|                                  | AN960-10L                 | WASHER                                                                                      | 10                    |
| *24                              | B210688                   | GOVERNOR - PROPELLER                                                                        | 1                     |
|                                  | 2-2168                    | CONTROL - GOVERNOR                                                                          | 1                     |
|                                  | 1-10126                   | PLACARD                                                                                     | 1                     |
|                                  | 1-10195-1                 | COVER (CONTROL LUG)                                                                         | 1                     |
|                                  | AN3-10A                   | BOLT (CONTROL TO GOVERNOR ATTACHMENT)                                                       | 1                     |
|                                  | AN315-3R                  | NUT                                                                                         | 1                     |
|                                  | AN365-1032                | NUT                                                                                         | 1                     |
|                                  | AN960-10                  | WASHER                                                                                      | 1                     |
|                                  | HF-3                      | ROD END                                                                                     | 1                     |
|                                  | *NOTE: PARTS NOT SHOWN.   |                                                                                             |                       |