

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
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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



INDEX OF ILLUSTRATIONS

FIGURE NO.	TITLE	PAGE NO.
1	GENERAL VIEW INDEX ILLUSTRATIONS	3
2	ASSEMBLY FUSELAGE FRAME TUBES	4
3	ASSEMBLY FUSELAGE FRAME FITTINGS	7
4	INSTALLATION - ELEVATOR AND AILERON CONTROLS	11
5	INSTALLATION - ELEVATOR AND AILERON CONTROLS - BEARINGS	14
6	INSTALLATION - RUDDER AND TRIM CONTROLS	18
7	INSTALLATION - CABIN CONTROLS INSTALLATION - REAR SEAT HEATER PRE 1978 MODELS	21
8	INSTALLATION - CABIN CONTROLS AND REAR SEAT HEATER 1978 MODELS AND UP	25
9	INSTALLATION - INSTRUMENT PANELS PRE 1978 MODELS	28
10	INSTALLATION - INSTRUMENT PANELS 1978 MODELS AND UP	30
11	INSTALLATION - INSTRUMENTS (HIGH PANEL) PRE 1978 MODELS	32
12	INSTALLATION - INSTRUMENTS (LOW PANEL) PRE 1978 MODELS	35
13	INSTALLATION - INSTRUMENTS 1978 MODELS AND UP	38
14	INSTALLATION STATIC SYSTEM	41
15	INSTALLATION - PRIMARY FUSELAGE EQUIPMENT	42
16	INSTALLATION - INTERIOR TRIM AND SEATS	46
17	INSTALLATION - ADJUSTABLE SEAT	50
18	ELECTRICAL EQUIPMENT AND SCHEMATIC	52
19	ELECTRICAL EQUIPMENT AND SCHEMATIC	56
20	INSTALLATION - BATTERY	59
21	INSTALLATION - FUSELAGE FUEL SYSTEM	61
22	INSTALLATION - BRAKE SYSTEM - HEEL	64
23	INSTALLATION - BRAKE SYSTEM - TOE	67
24	ASSEMBLY - PARKING BRAKE VALVE	69
25	ASSEMBLY - MASTER CYLINDER	71
26	INSTALLATION - FUSELAGE COVERING	73
27	ASSEMBLY - WING FRAME PRE 1978 MODELS	75
28	ASSEMBLY - WING FRAME 1978 MODELS AND UP	81
29	INSTALLATION - FUEL TANK AND FUEL VENT	86
30	INSTALLATION - WING COVERING	89



INDEX OF ILLUSTRATIONS

(CONT'D.)

FIGURE NO.	TITLE	PAGE NO.
31	INSTALLATION - LANDING GEAR CLEVELAND WHEELS	90
32	INSTALLATION - LANDING GEAR MCCAULEY WHEELS	94
33	INSTALLATION - TAIL WHEEL	97
34	INSTALLATION - WING AND AILERON	99
35	INSTALLATION - AILERON GAP COVERS AND SEALS	101
36	INSTALLATION - WING STRUTS	102
37	INSTALLATION - WING GAP COVERS PRE 1978 MODELS	104
38	INSTALLATION - GAP COVERS 1978 AND LATER MODELS	106
39	INSTALLATION - TAIL SURFACES	107
40	INSTALLATION - TAIL SURFACES BEARINGS	109
41	INSTALLATION - ENGINE PRE 1974 MODELS	112
42	INSTALLATION - ENGINE EQUIPMENT AND BAFFLES (IO-320-E1B)	117
43	INSTALLATION - BAFFLES AND OIL COOLER (AEIO-320-E1B)	121
44	INSTALLATION - ENGINE BAFFLES AND OIL COOLER (AEIO-360-H1A)	124
45	INSTALLATION - ENGINE INTAKE AND EXHAUST SYSTEM 1974 MODELS AND UP (EXCEPT 180 HP)	126
46	INSTALLATION - ENGINE INTAKE AND EXHAUST SYSTEM (AEIO-360-H1A)	129
47	INSTALLATION - ENGINE MOUNT APPLICABLE EARLY (150 HP MODELS)	132
48	INSTALLATION - ENGINE MOUNT LATER MODELS	134
49	INSTALLATION - LYCOMING CHRISTEN OIL SYSTEM	136
50	INSTALLATION - LYCOMING CHRISTEN OIL SYSTEM (AEIO-360-H1A)	138
51	INSTALLATION - COWLING AND PROPELLER - 1973 MODELS	140
52	INSTALLATION - COWLING AND PROPELLER - 150 HP CONSTANT SPEED AND FIXED PITCH 1974 MODELS AND UP	142
53	INSTALLATION - COWLING AND PROPELLER 180 HP CONSTANT SPEED	145

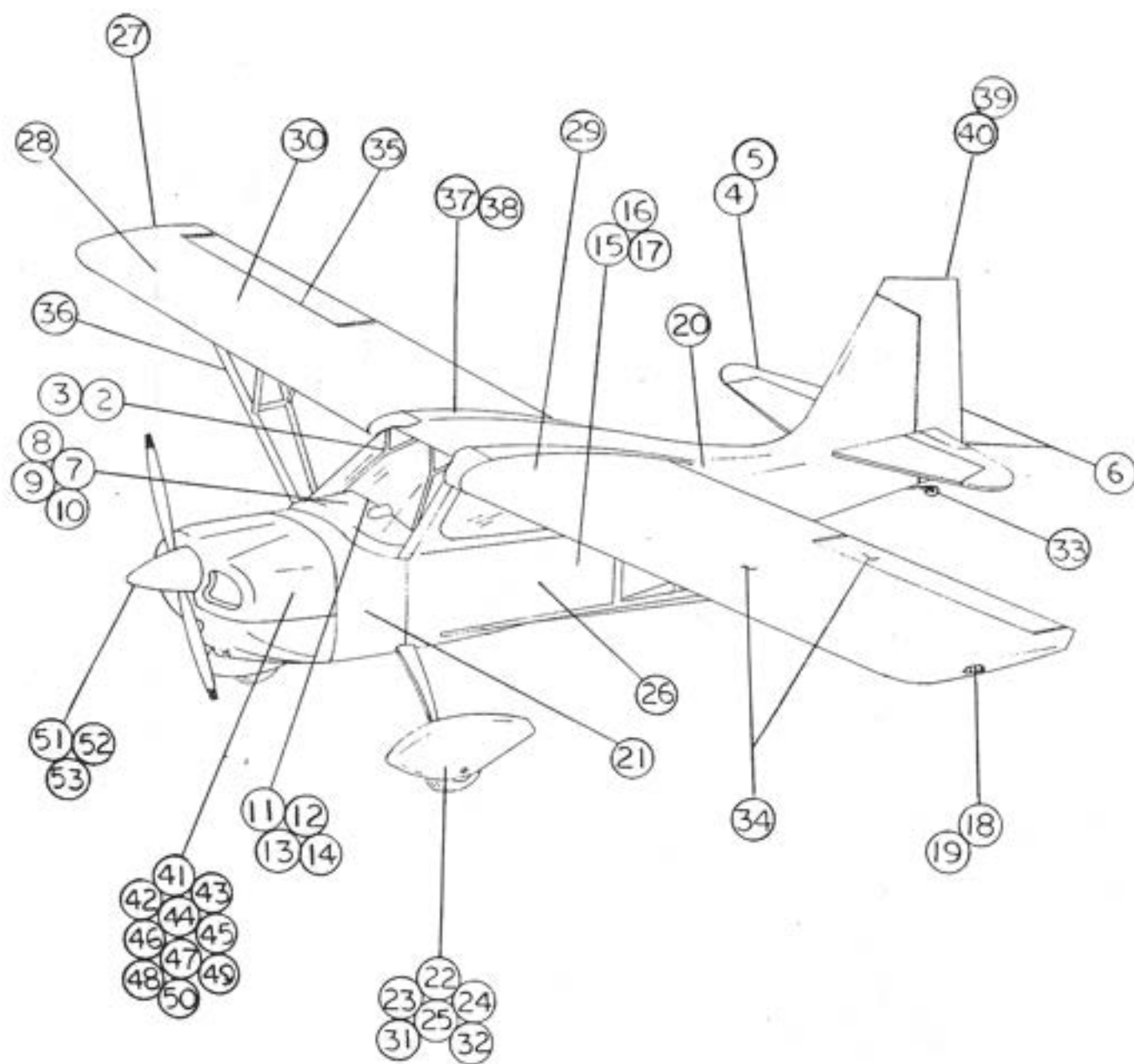


FIGURE 1. GENERAL VIEW INDEX ILLUSTRATIONS



FIGURE 2
ASSEMBLY FUSELAGE FRAME TUBES

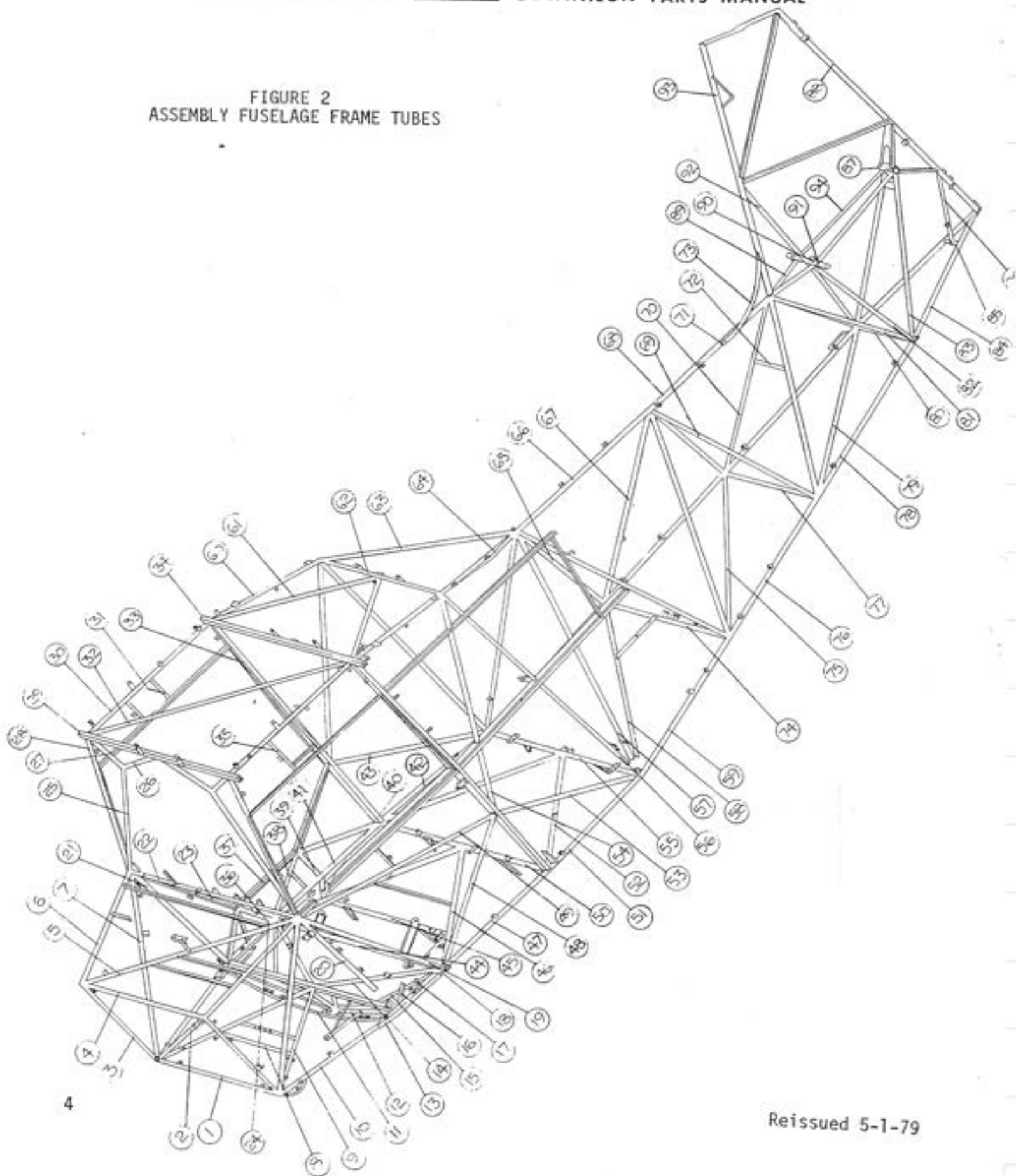




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
2-	7-1310 7-1410	DRAWING - ASSEMBLY LOWER TRUSS DRAWING - ASSEMBLY FUSELAGE FRAME	
1	7-1410-45	TUBE	1
2	7-1410-62	TUBE	1
3	7-1410-18	TUBE	1L/1R
4	7-1410-37	TUBE	1
5	7-1410-38	TUBE	1
6	7-1410-1	TUBE	1L/1R
7	7-1410-19	TUBE	2
8	7-1410-79	TUBE	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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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	1L/1R
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	1
56	7-1410-223	TUBE	1L/1R
57	7-1410-29	TUBE	1L/1R
58	7-1410-55	TUBE	1
59	7-1410-14	TUBE	1L/1R
60	7-1410-4	TUBE	1L/1R
61	7-1410-43	TUBE	1L/1R
62	7-1410-44	TUBE	1
63	7-1410-5	TUBE	1L/1R
64	7-1410-245	TUBE	1
65	7-1410-30	TUBE	1L/1R
66	7-1410-6	TUBE	1
67	7-1410-31	TUBE	1L/1R
68	7-1410-220	TUBE	1
69	7-1410-32	TUBE	1L/1R
70	7-1410-213	TUBE	1L/1R
71	7-1410-204	TUBE	1
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	1L/1R
77	7-1410-58	TUBE	1L/1R
78	7-1410-16	TUBE	1L/1R
79	7-1410-59	TUBE	1
80	7-1410-60	TUBE	1
81	7-1410-215	TUBE	1L/1R
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	1
86	7-1410-36	TUBE	1
87	7-1410-76	TUBE	1
88	7-1411-1	TUBE	1
89	7-1410-212	TUBE	1L/1R
90	7-1410-73	TUBE	1
91	7-1410-78	TUBE	1L/1R
92	7-1411-2	TUBE	1
93	7-1411-3	TUBE	1
94	7-1410-9	TUBE	1L/1R



FIGURE 3
ASSEMBLY FUSELAGE FRAME FITTINGS

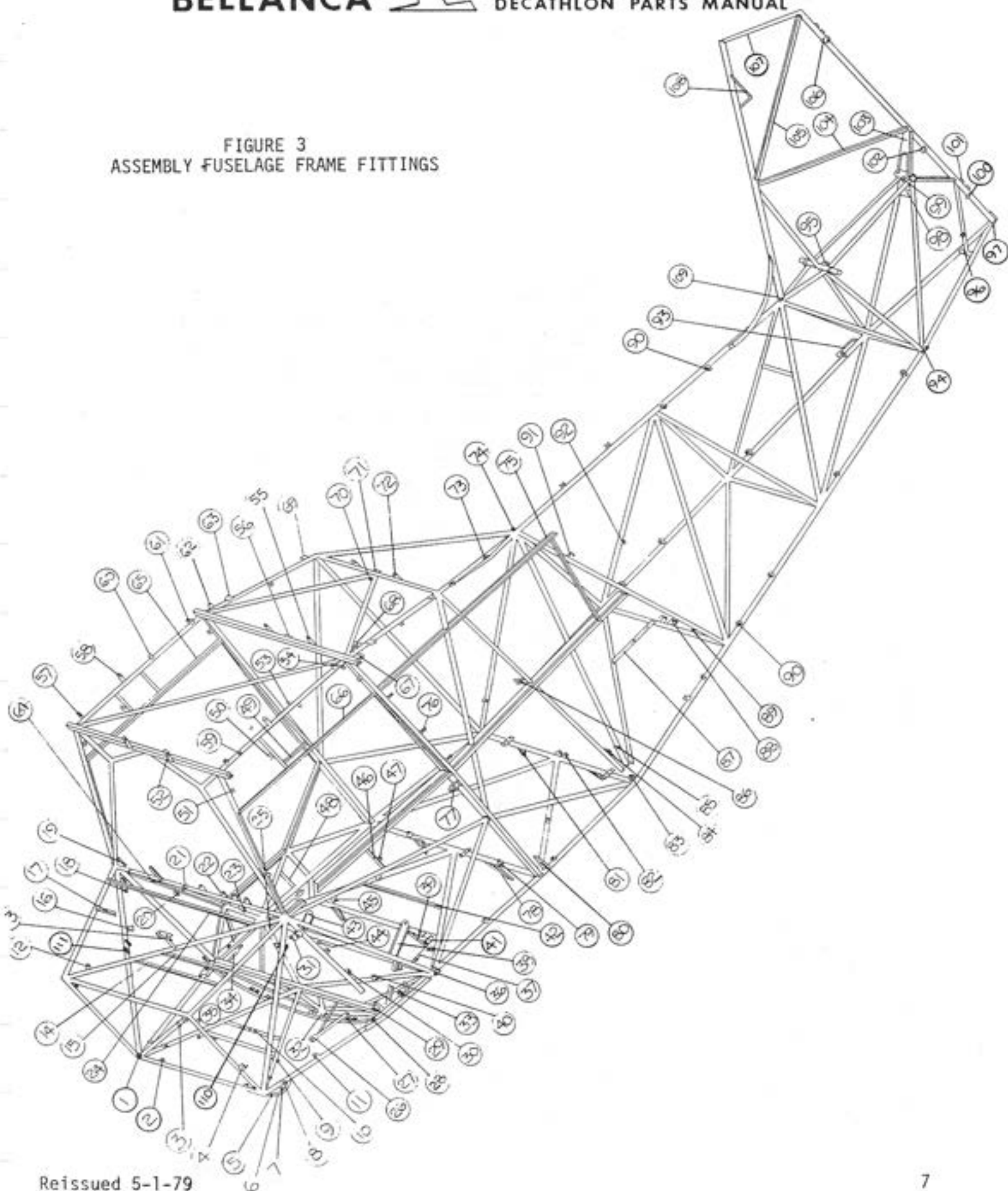




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
3-	7-1410	DRAWING - ASSEMBLY FUSELAGE FRAME	
1	1-624	FITTING - ENGINE MOUNT ATTACHMENT	4
2	1-2278	LUG - SPRING ATTACHMENT	2
3	1-2574	CLAMP - CONTROL CASING	1
4	1-10092	BRACKET - FUEL SHUTOFF ATTCHMENT	1
5	1-2278	LUG - RUDDER SPRING ATTACHMENT 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

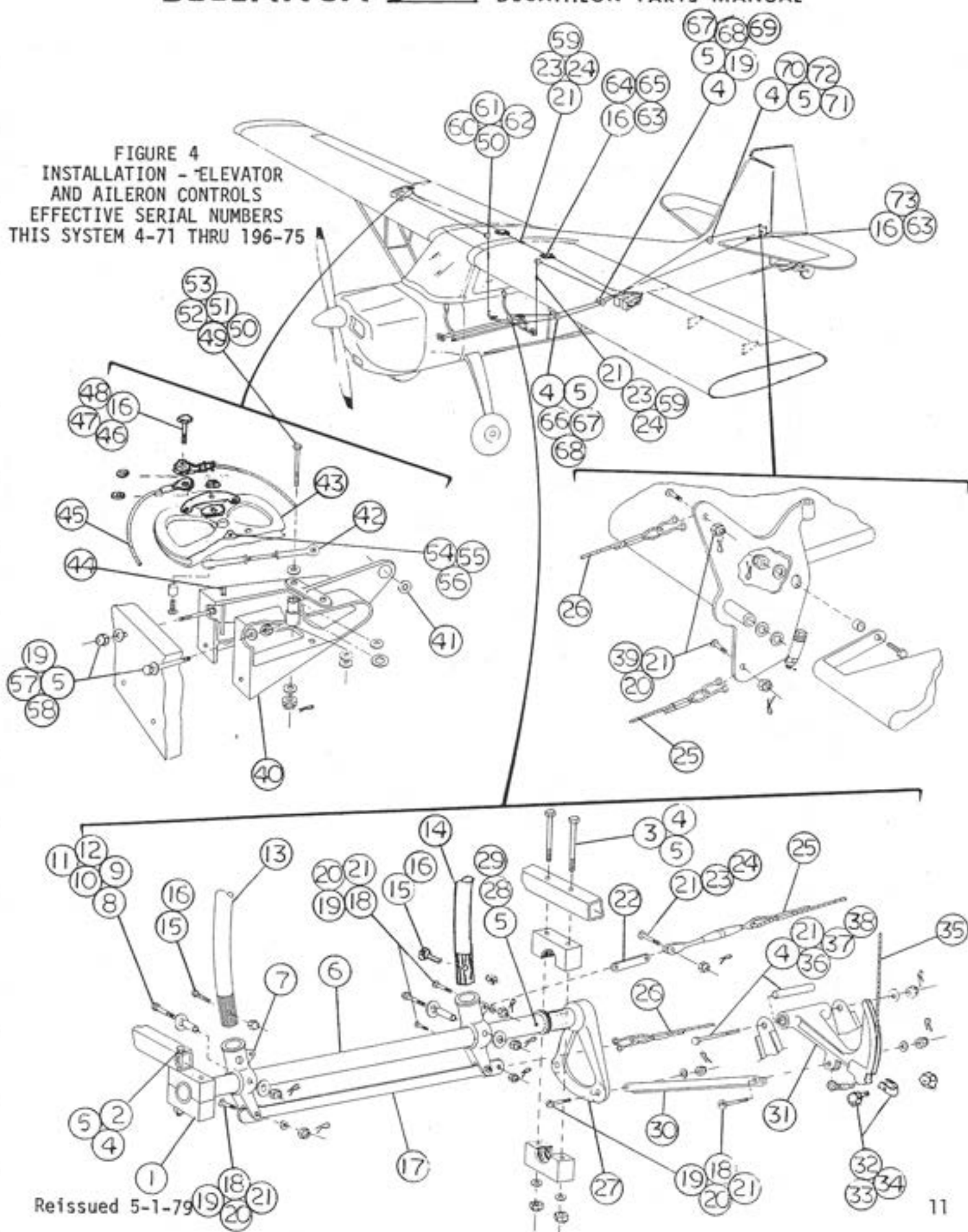




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
4-	7-441	DRAWING - INSTALLATION FLIGHT CONTROL SYSTEM	
1	1-2599	BEARING BLOCK - CONTROL TORQUE TUBE	2 pr.
2	AN4-30A	BOLT - BEARING ATTACHMENT FRONT	2
3	AN4-27A	BOLT - BEARING ATTACHMENT REAR	2
4	AN960-416L	WASHER	15
5	AN365-428	NUT	18
6	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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
4-	AN960-516 or 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
*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.			

DECATHLON PARTS MANUAL

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

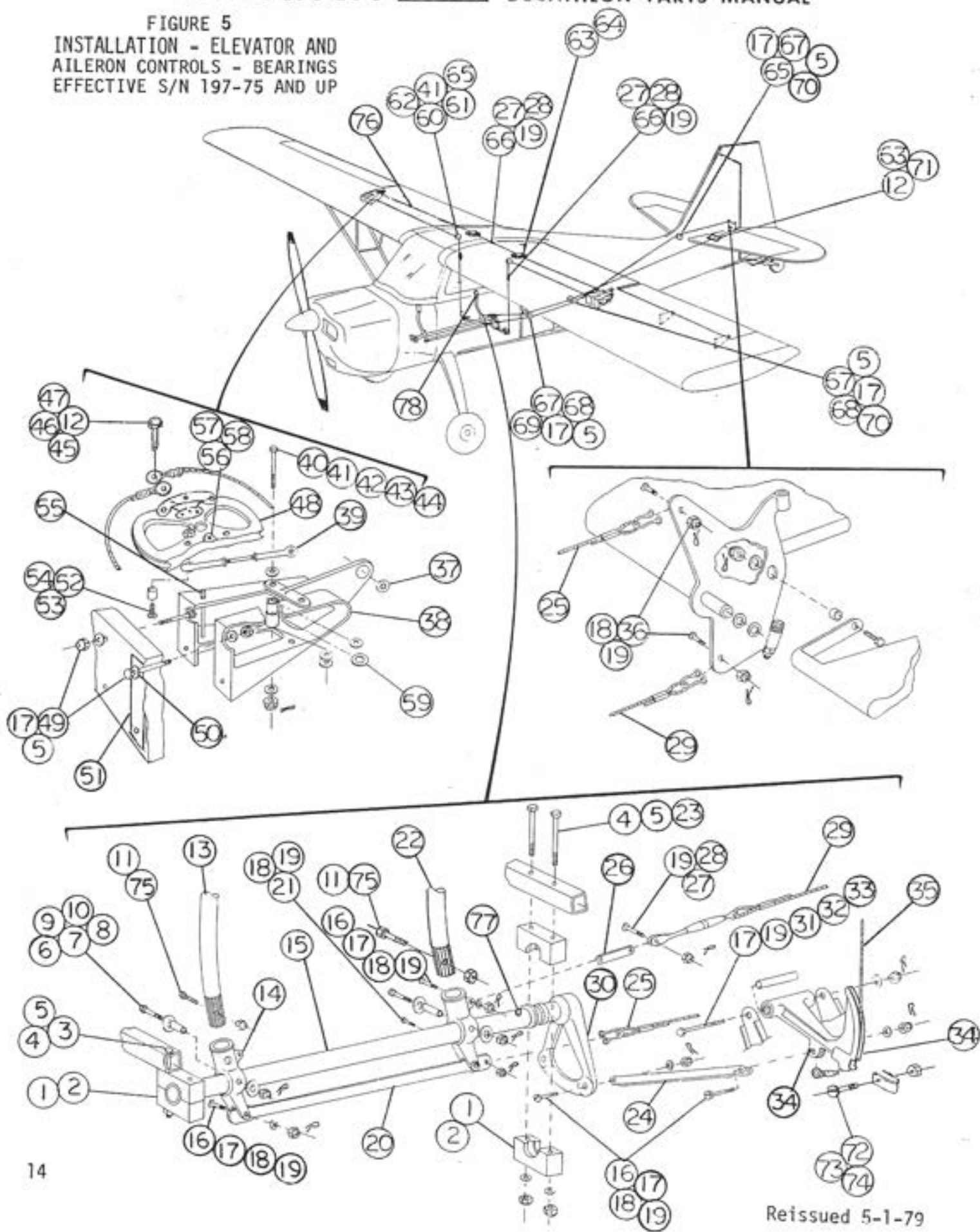




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
5-	7-1486	DRAWING - INSTALLATION FLIGHT CONTROL SYSTEM - BEARINGS	
1	1-10370	BEARING BLOCK - CONTROL TORQUE TUBE	2 pr.
2	B188PS	BEARING - CONTROL TORQUE TUBE	2
3	AN4-30A	BOLT	2
4	AN960-416L	WASHER	4
5	AN365-428	NUT	7
6	AN6-25	BOLT	2
7	AN945-6P	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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
5-		<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.	

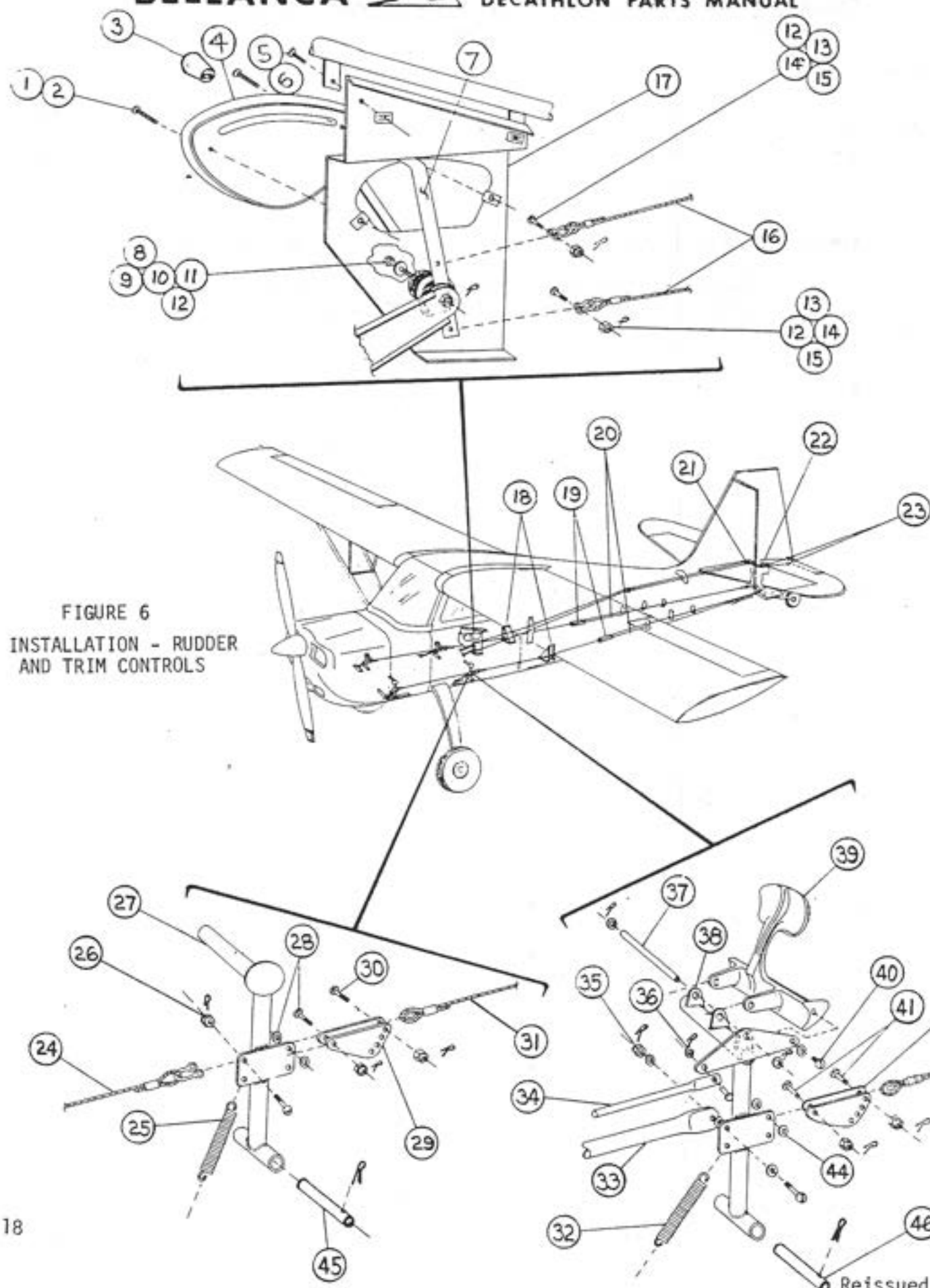




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
6-	7-1294 7-1486	DRAWING - INSTALLATION - TRIM TAB SIDE MOUNTED DRAWING - INSTALLATION FLIGHT CONTROLS SYSTEM (RUDDER)	
1	AN515-B8-16	SCREW	2
2	C1287-832	NUT	2
3	1-9186	KNOB - TRIM TAB CONTROL	1
4	3-1605	QUADRANT - TRIM TAB	1
5	AN526-832-6	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 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. OR STAINLESS)	2



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

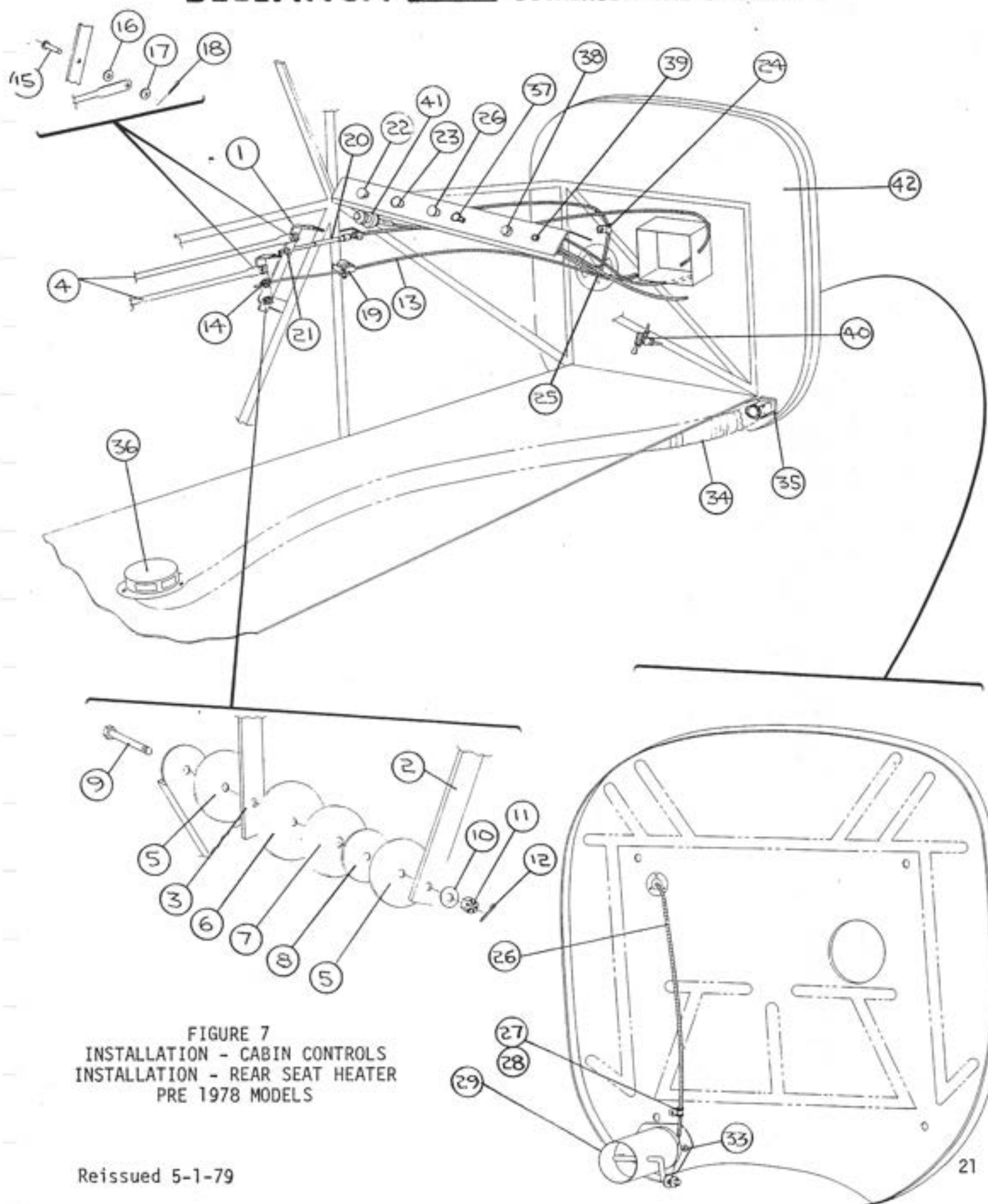


FIGURE 7
INSTALLATION - CABIN CONTROLS
INSTALLATION - REAR SEAT HEATER
PRE 1978 MODELS



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
7-	*3-1539 7-1415 7-1417 7-1422 7-1478	DRAWING - INSTALLATION OIL LIGHT DRAWING - INSTALLATION FIXED EQUIPMENT DRAWING - INSTALLATION CONSTANT SPEED PROPELLER DRAWING - INSTALLATION INSTRUMENT PANEL DRAWING - INSTALLATION REAR SEAT HEATER (OPTIONAL)	
1	3-1401	SUB-ASS'Y THROTTLE AND CARB. HEAT CONTROL (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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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) (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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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.			

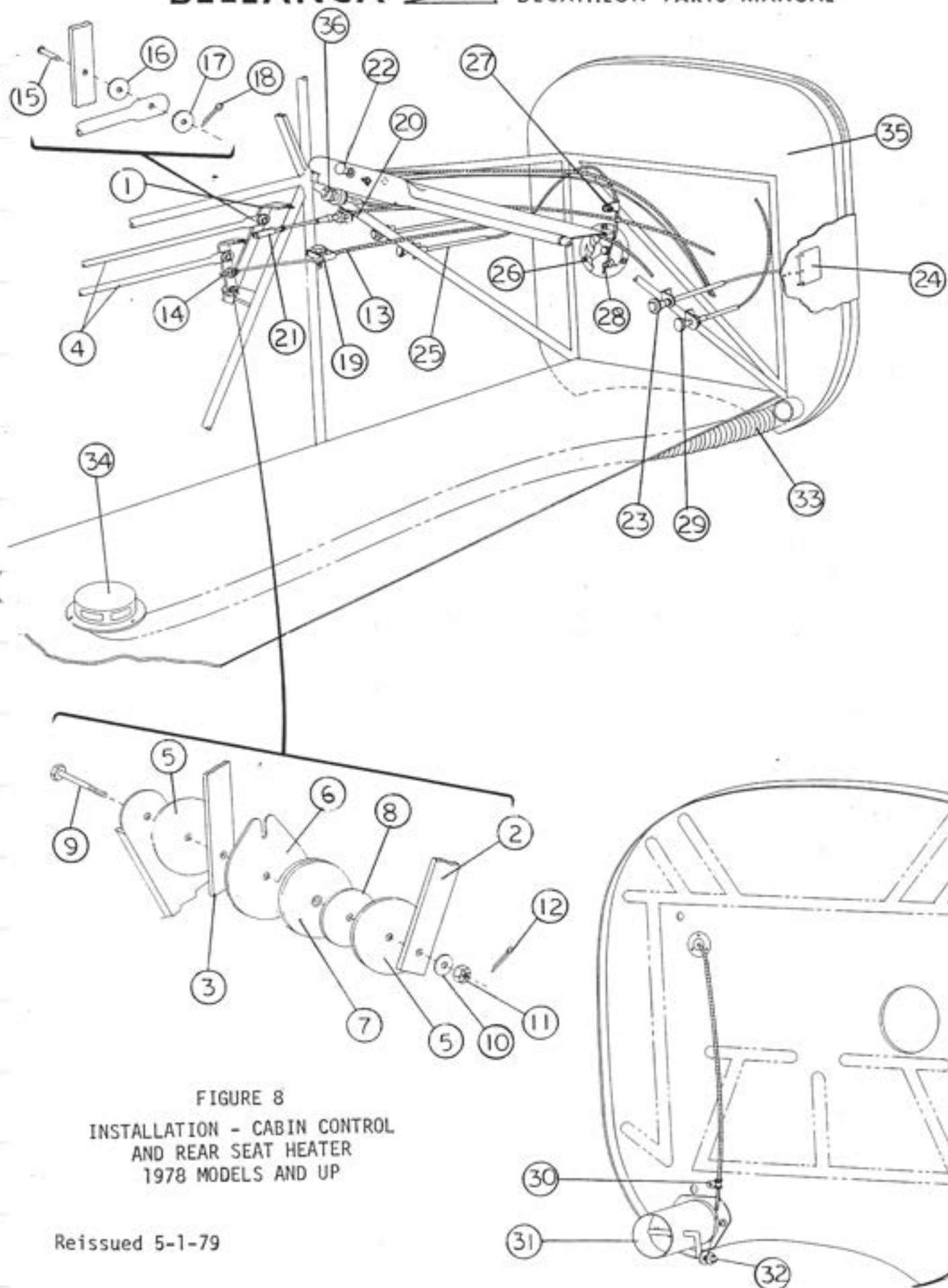


FIGURE 8
INSTALLATION - CABIN CONTROL
AND REAR SEAT HEATER
1978 MODELS AND UP



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
8-	7-1415 7-1478 7-1524	DRAWING - INSTALLATION - FIXED EQUIPMENT DRAWING - INSTALLATION - REAR SEAT HEATER DRAWING - INSTALLATION - INSTRUMENT PANEL	
1	3-1401	SUB-ASSEMBLY THROTTLE AND CARB. HEAT 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

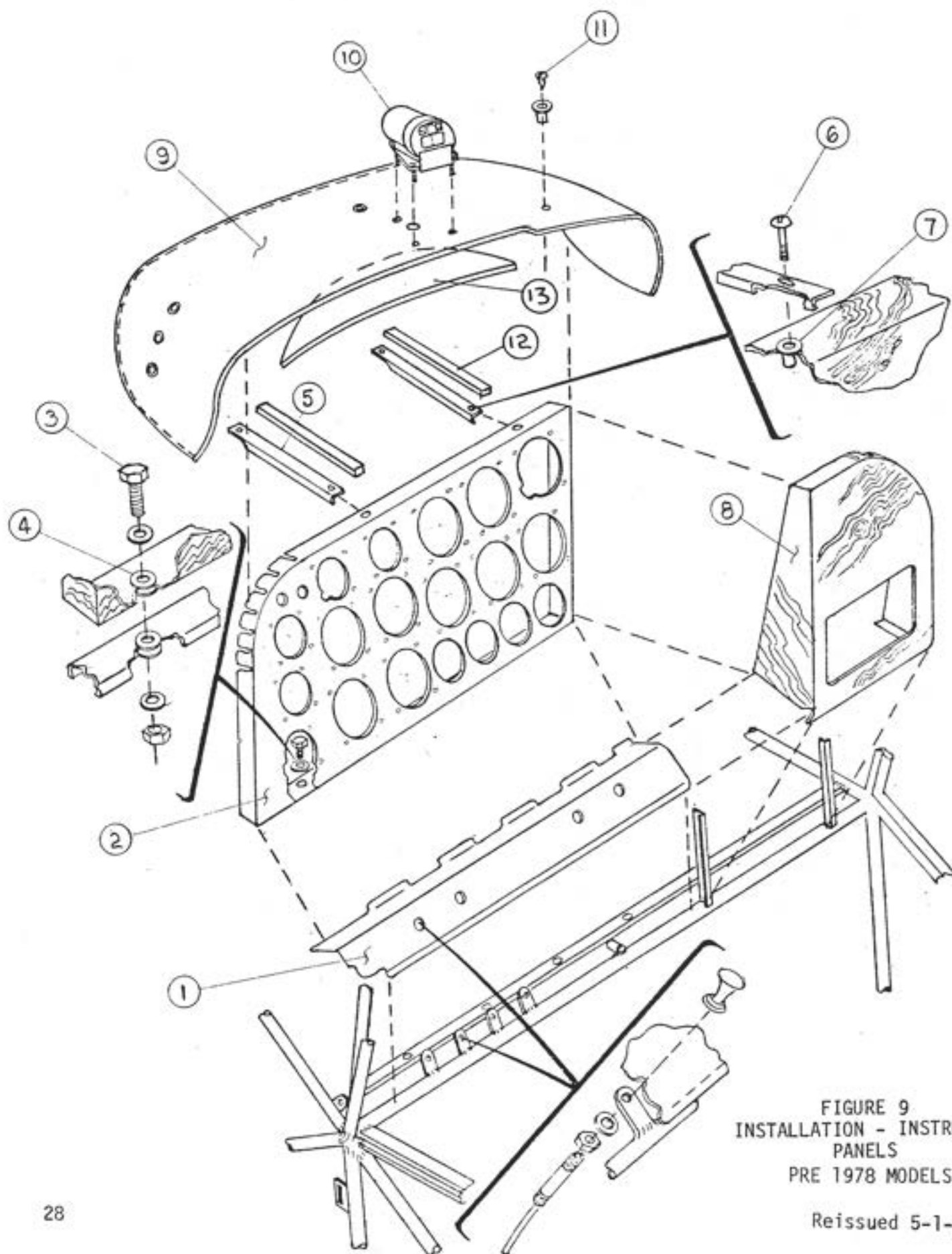


FIGURE 9
INSTALLATION - INSTRUMENT
PANELS
PRE 1978 MODELS

Reissued 5-1-79



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

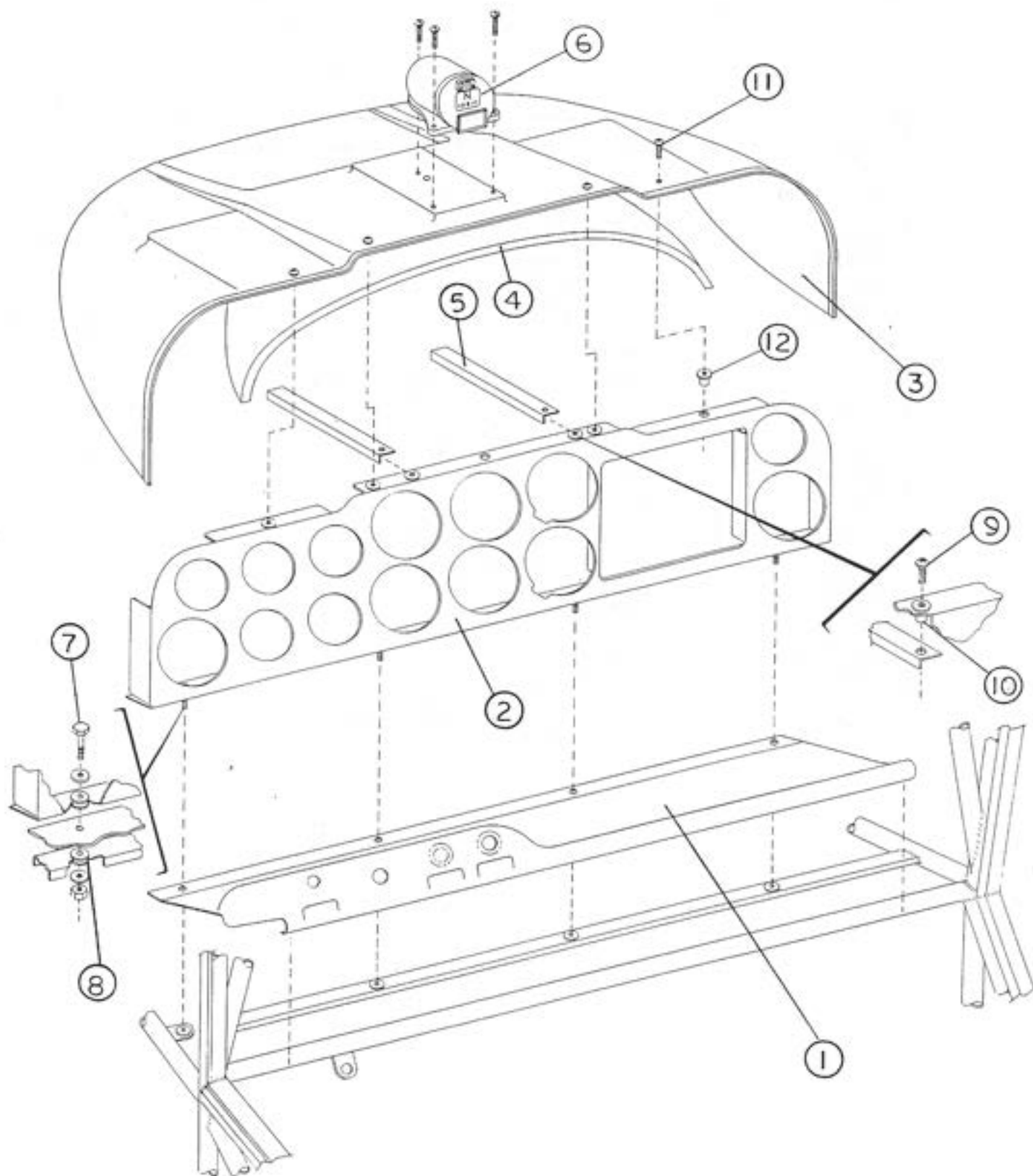


FIGURE 10
INSTALLATION - INSTRUMENT PANEL
1978 MODELS AND UP

Reissued 5-1-79



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

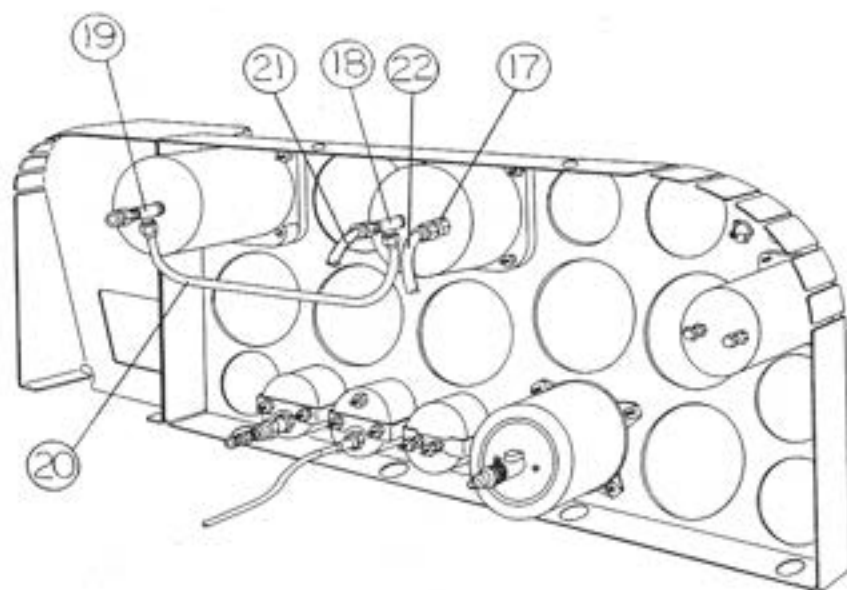


FIGURE 11
INSTALLATION - INSTRUMENTS (HIGH PANEL)
PRE 1978 MODELS

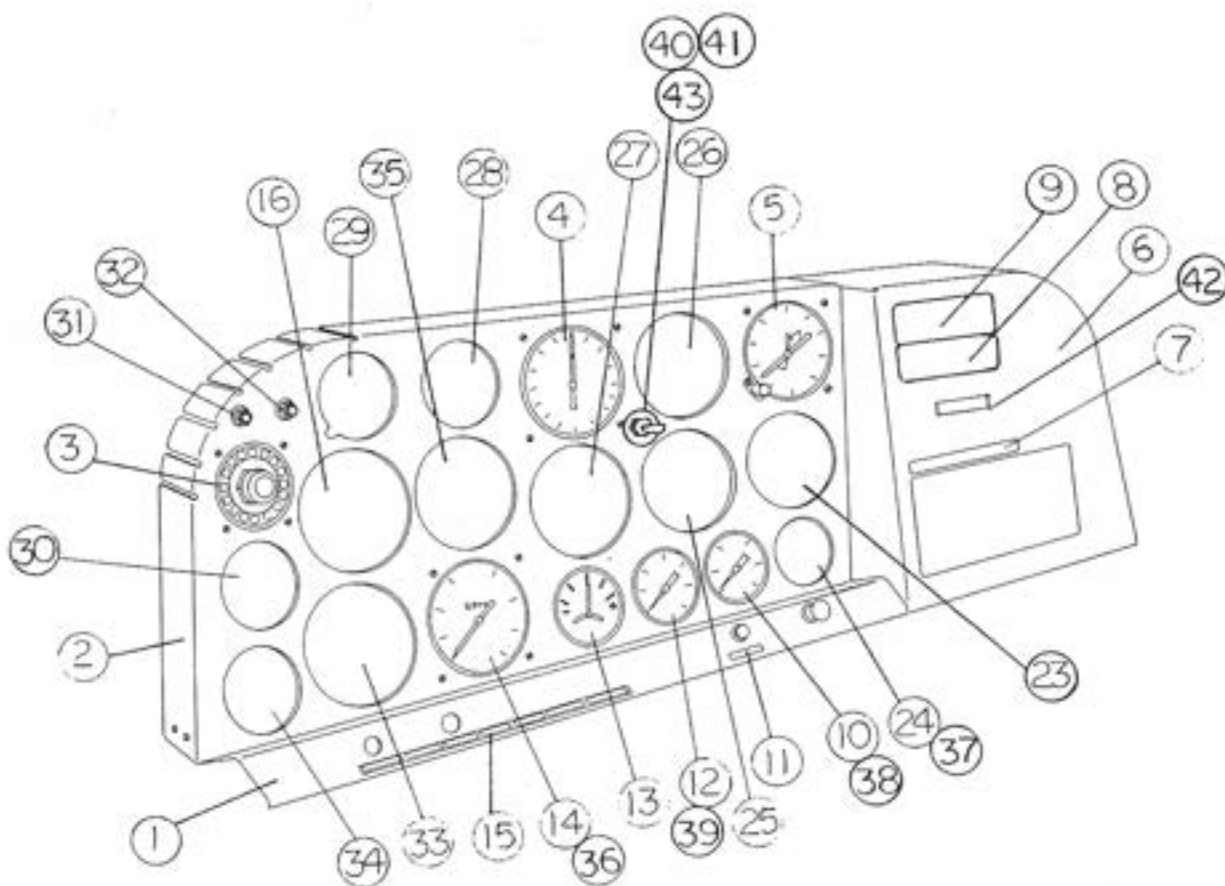
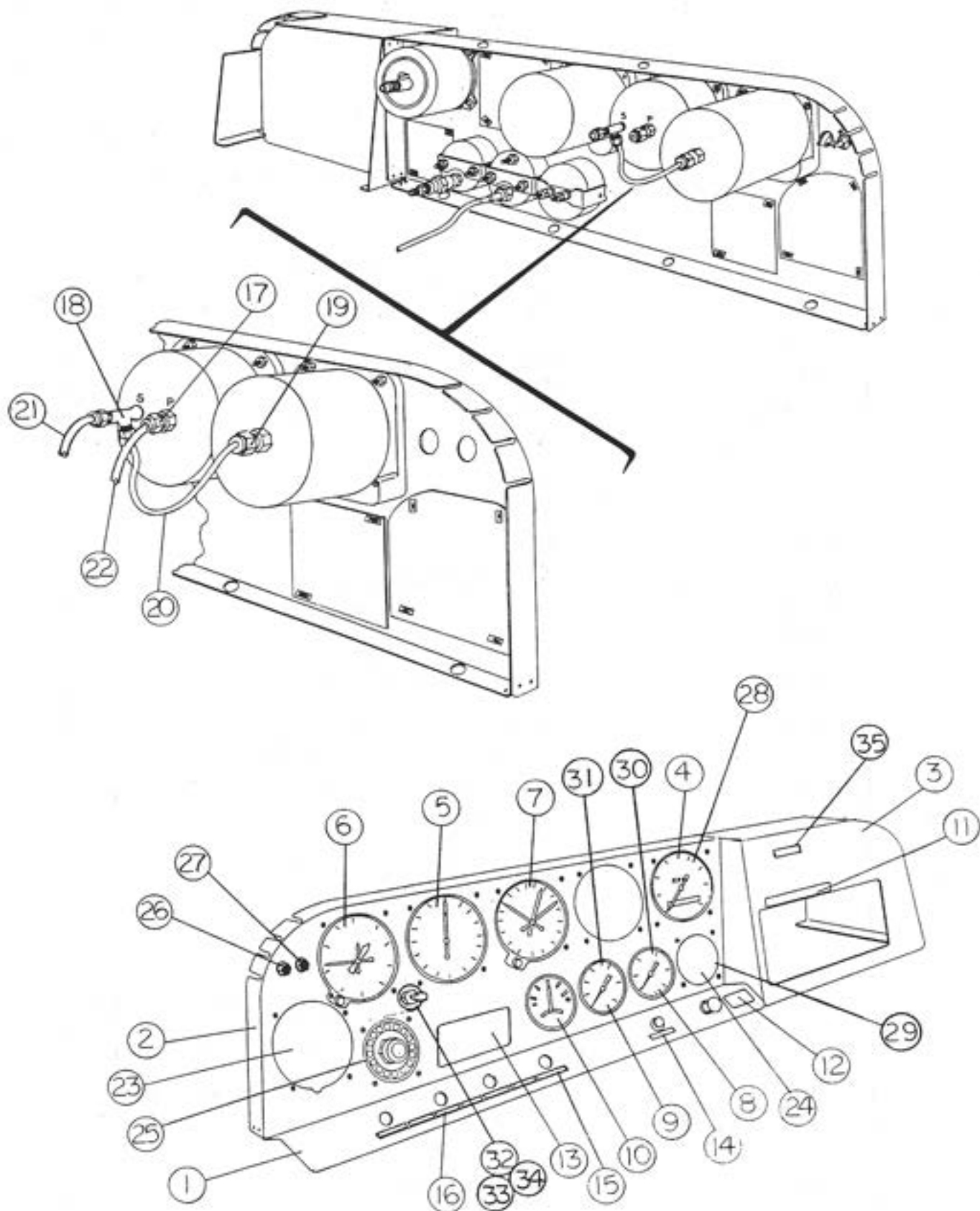




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
11-	7-1422	DRAWING - INSTALLATION INSTRUMENT PANEL (HIGH)	
1	4-1054-4	PANEL - LOWER CONTROL	1
2	3-1560-1	PANEL - INSTRUMENT (HIGH)	1
3	4-1401	INSTALLATION STALL WARNING KIT	1
4		AIRSPEED - INDICATOR	1
	AN515B6-12	SCREW	4
	AN340-6	NUT	4
5		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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

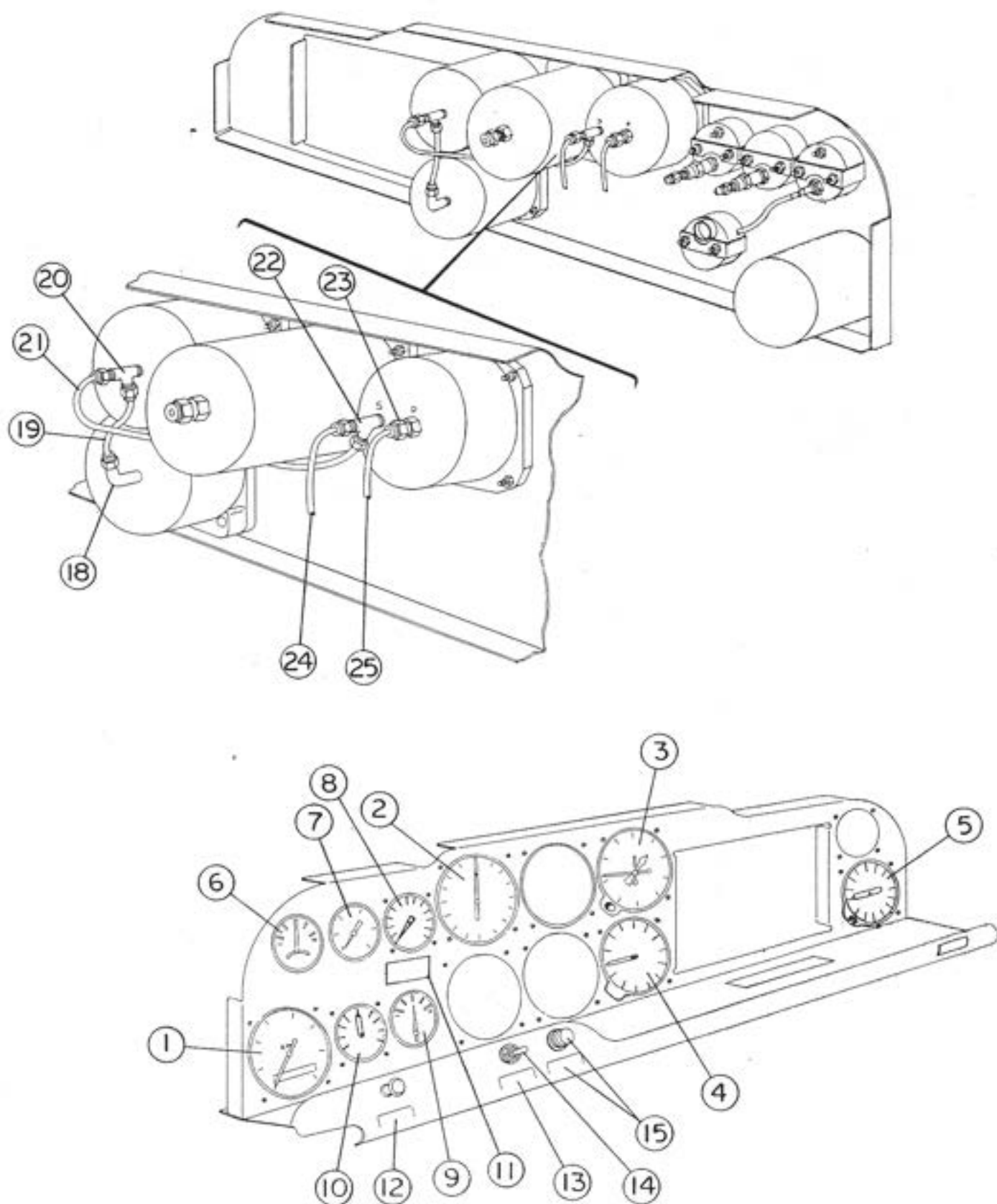


FIGURE 13
INSTALLATION - INSTRUMENTS

1978 MODELS AND UP

Reissued 5-1-79



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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	AN515B6R12	AIR SPEED	1
	AN340-6	SCREW	4
		NUT	4
3	AN515B6R12	ALTIMETER - SENSITIVE	1
	AN340-6	SCREW	3
		NUT	3
4	AN515B6R12	RATE OF CLIMB (OPTIONAL)	1
	AN340-6	SCREW	3
		NUT	3
5	AN515B6R12	ACCELEROMETER	1
		SCREW	3
6	1-10441	OIL TEMPERATURE GAUGE	1
	103694	DECAL - INSTRUMENT MARKING	1
	1-10291	GASKET - ENGINE ATTACHMENT	1
		ADAPTER - ENGINE ATTACHMENT	1
7	1-10440	OIL PRESSURE GAUGE	1
	7-1524-15	DECAL - INSTRUMENT MARKING	1
	AN818-3D	LINE - INSTRUMENT TO FIREWALL	1
	AN819-3D	NUT	2
	AN816-3D	SLEEVE	2
	AN910-1D	NIPPLE - INSTRUMENT	1
		COUPLING - INSTRUMENT	1
8	1-10439	FUEL PRESSURE GAUGE	1
	1-10620	DECAL - INSTRUMENT MARKING	1
	AN515B6R5	PLATE - SUPPORT	1
	AN340-6	SCREW	4
		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)	1
		(COMPASS CALIBRATED WITH RADIO ON)	
17	1-10180	PLACARD (PARKING BRAKE)	1
18	69F 3/16 x 1/8	ELBOW	1



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

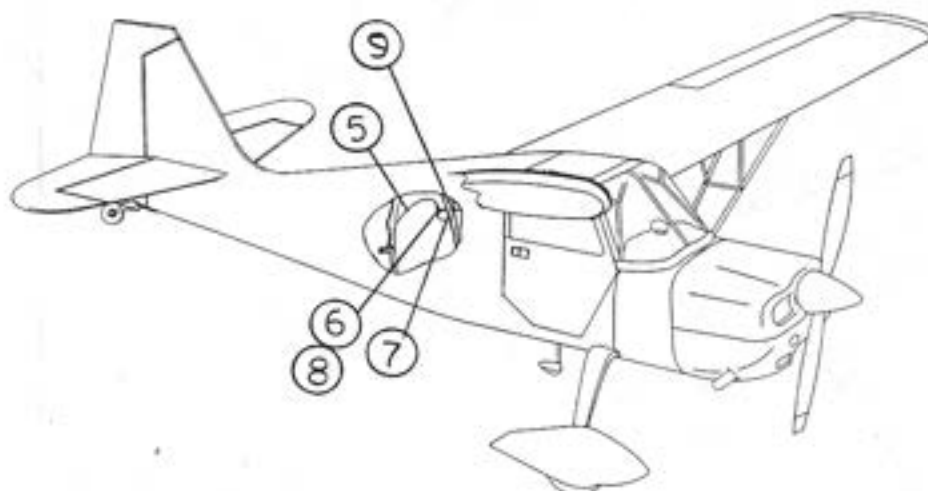


FIGURE 14
INSTALLATION STATIC SYSTEM
APPLICABLE SERIAL NO'S. 299-77 AND UP.

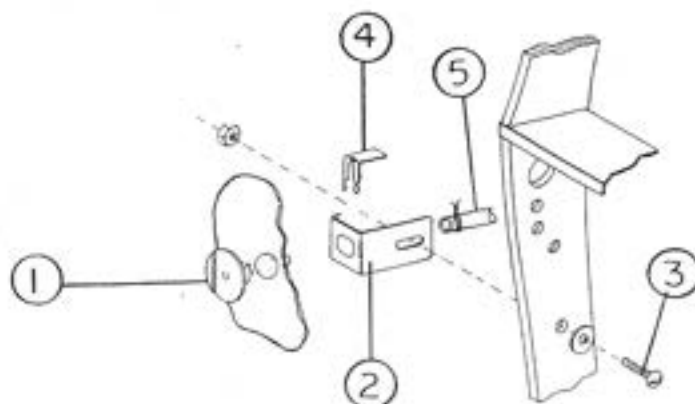




FIGURE 15
INSTALLATION - PRIMARY
FUSELAGE EQUIPMENT

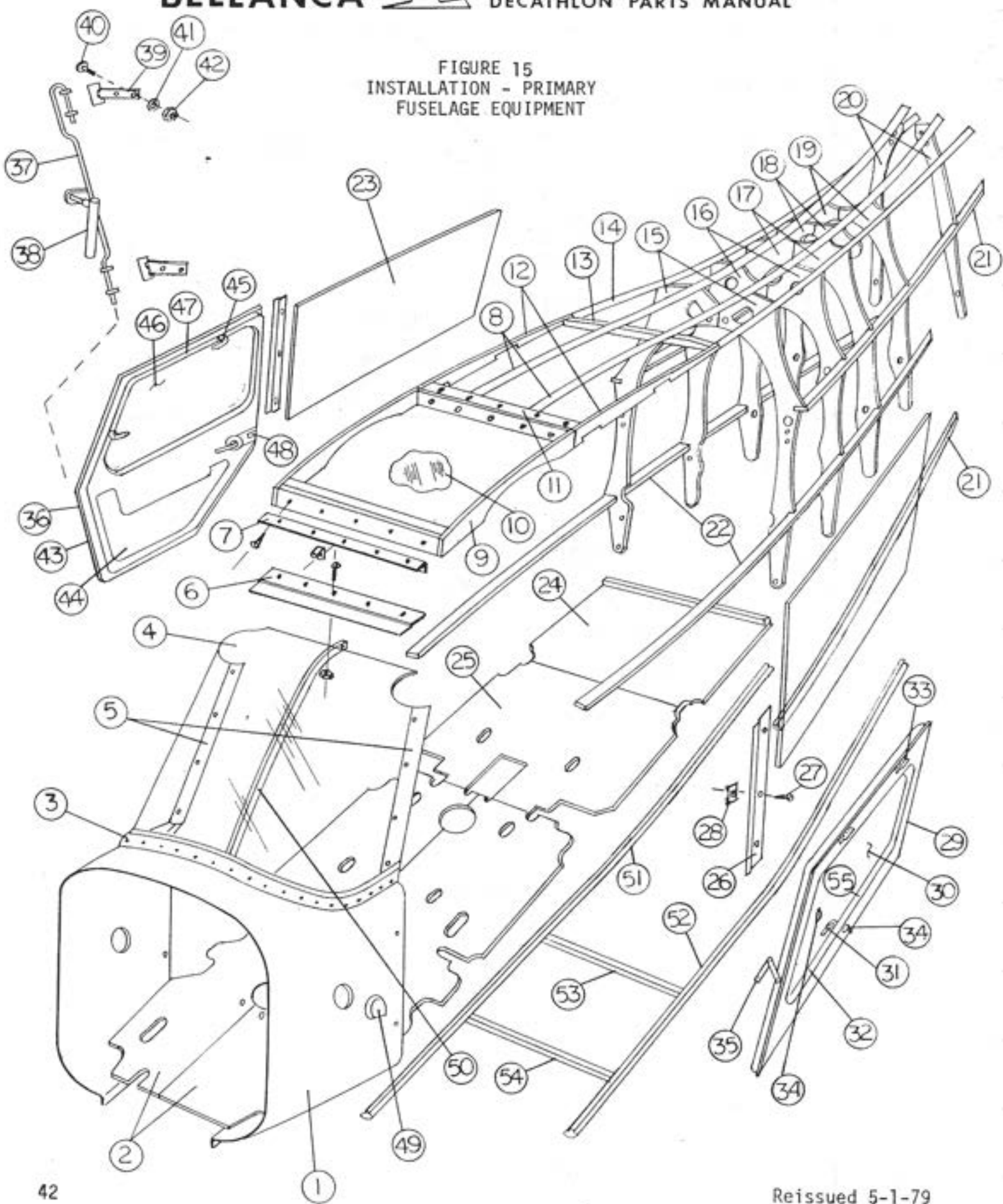




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
15-	4-1490 7-1269 7-1415 7-1416 7-1419	DRAWING - INSTALLATION CABIN WINDOW DRAWING - INSTALLATION INTERIOR CABIN PANELS DRAWING - FIXED EQUIPMENT DRAWING - FUSELAGE FAIRINGS DRAWING - INSTALLATION WINDSHIELD	
1	7-1472 7-509-7 7-509-3 7-10000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



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

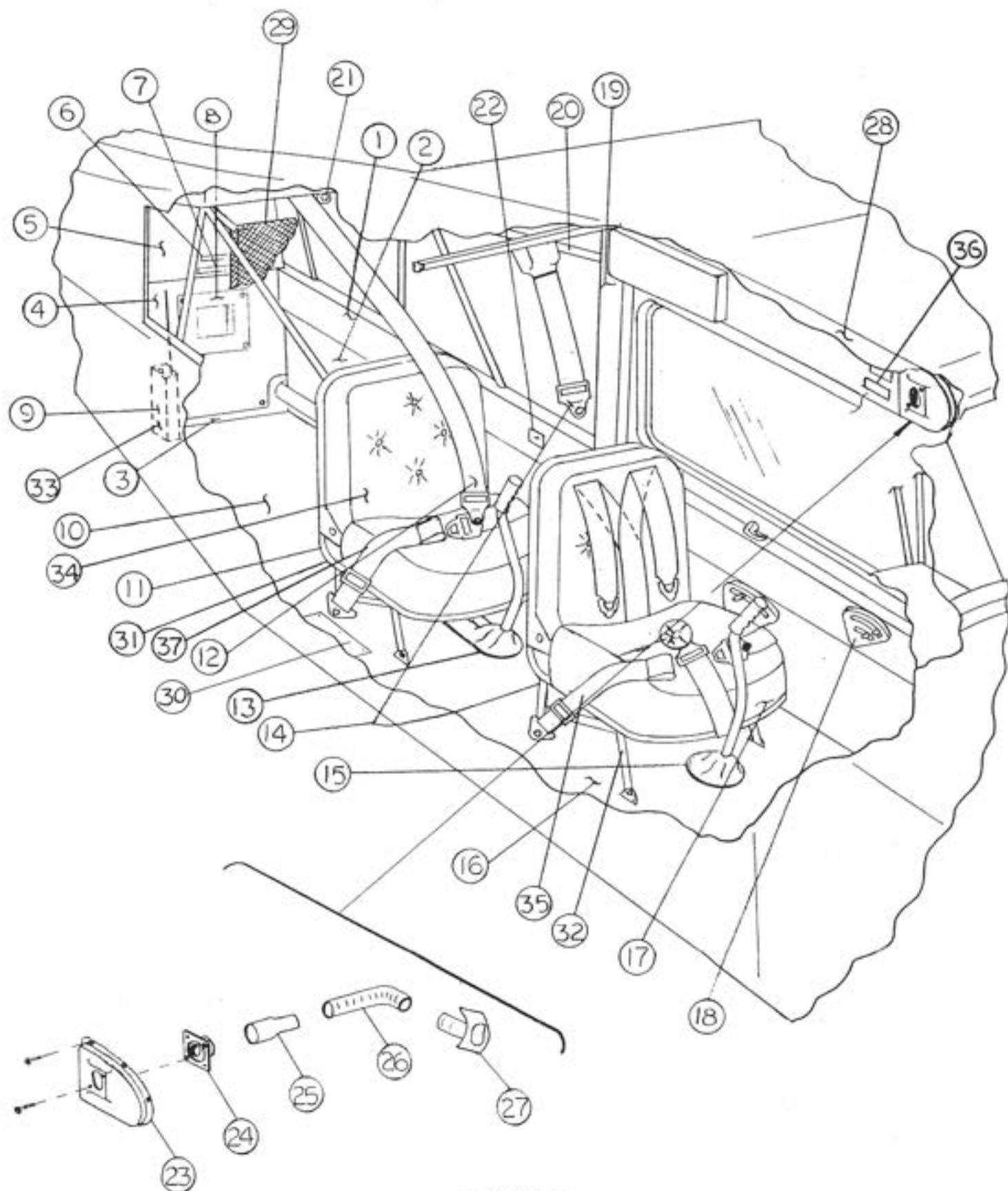


FIGURE 16
INSTALLATION - INTERIOR TRIM & SEATS

Reissued 5-1-79



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 (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 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 FOR PARTS BRAKE DOWN)	1
33	3-1590	INSTALLATION - EMERGENCY LOCATOR TRANS. LARAGO	1
	MT-1005-2	BRACKET	1
	AN365-1032	NUT	6
	AN507-1032-12	SCREW	4



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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.

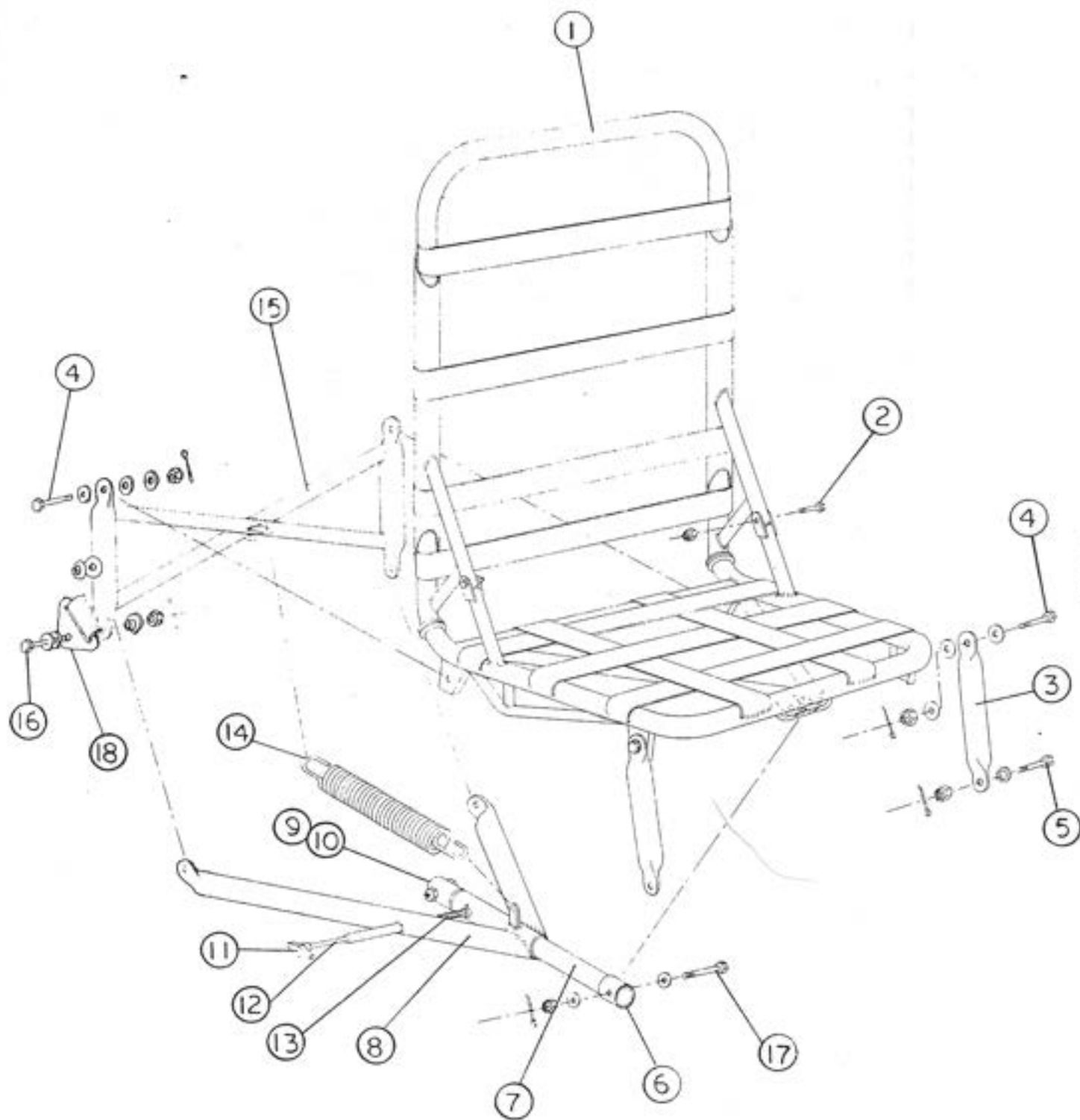


FIGURE 17
INSTALLATION - ADJUSTABLE SEAT



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 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

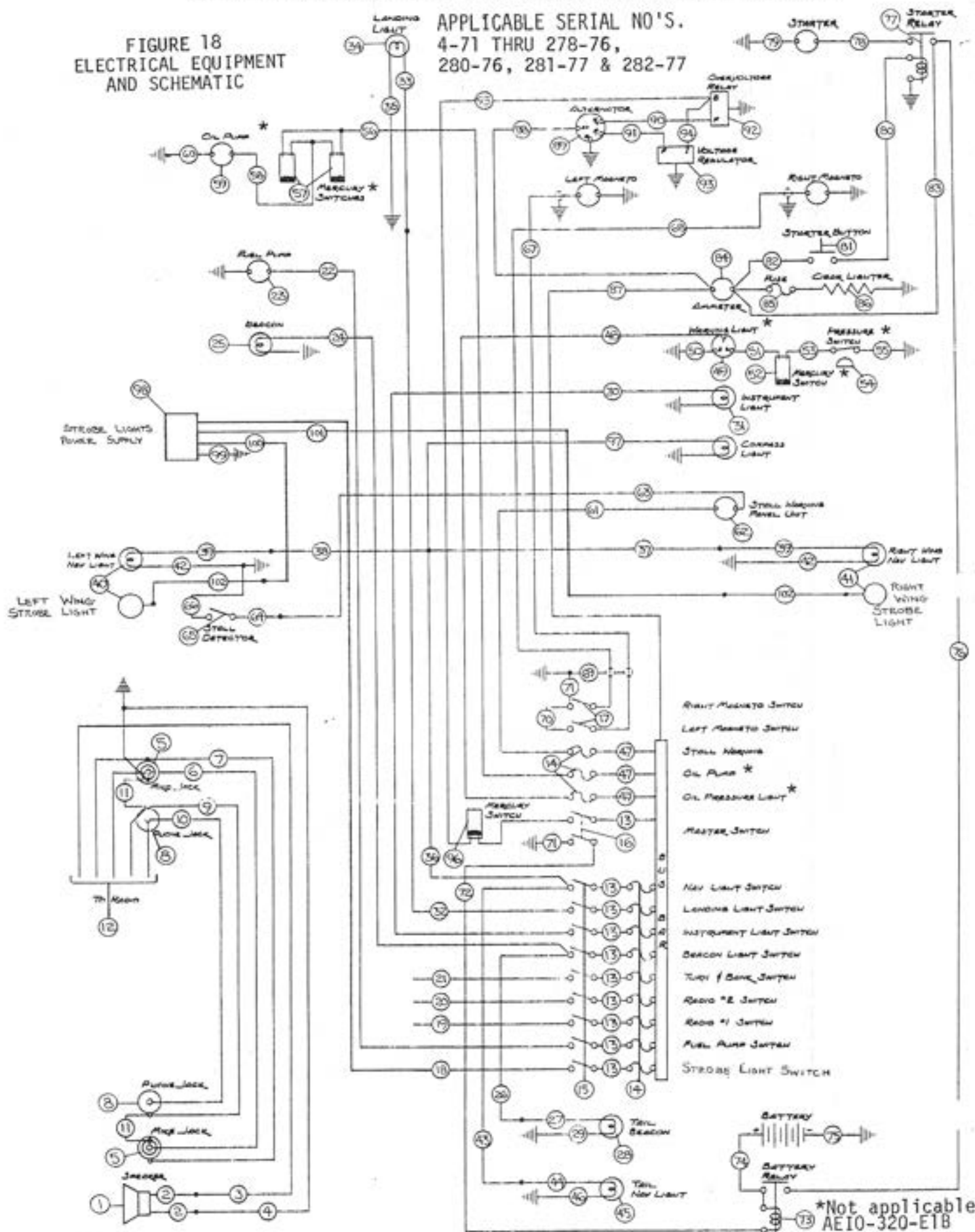




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
18-	4-1543	DRAWING - SCHEMATIC - ELECTRICAL SYSTEM	
1	57FOS	SPEAKER	1
2	150	WIRE - SPEAKER	2
3	30	WIRE - SPEAKER TO RADIO	1
4	180	WIRE - SPEAKER TO GROUND	1
5	C-12B	MIKE JACK	2
6	34	WIRE - MIKE JACK TO MIKE JACK	1
7	35	WIRE - MIKE JACK TO 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
18-47	134	WIRE - BUS BAR TO FUSEHOLDER	3
48	*183	WIRE - FUSEHOLDER TO WARNING LIGHT	1
49	*801-1030- 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 7MP1-2	SWITCH BRACKET ASSEMBLY 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 - LEFT AND RIGHT	2
<u>*NOTE:</u> PARTS NOT REQ'D WITH INSTALLATION OF AE10-320-E1B ENGINE.			

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

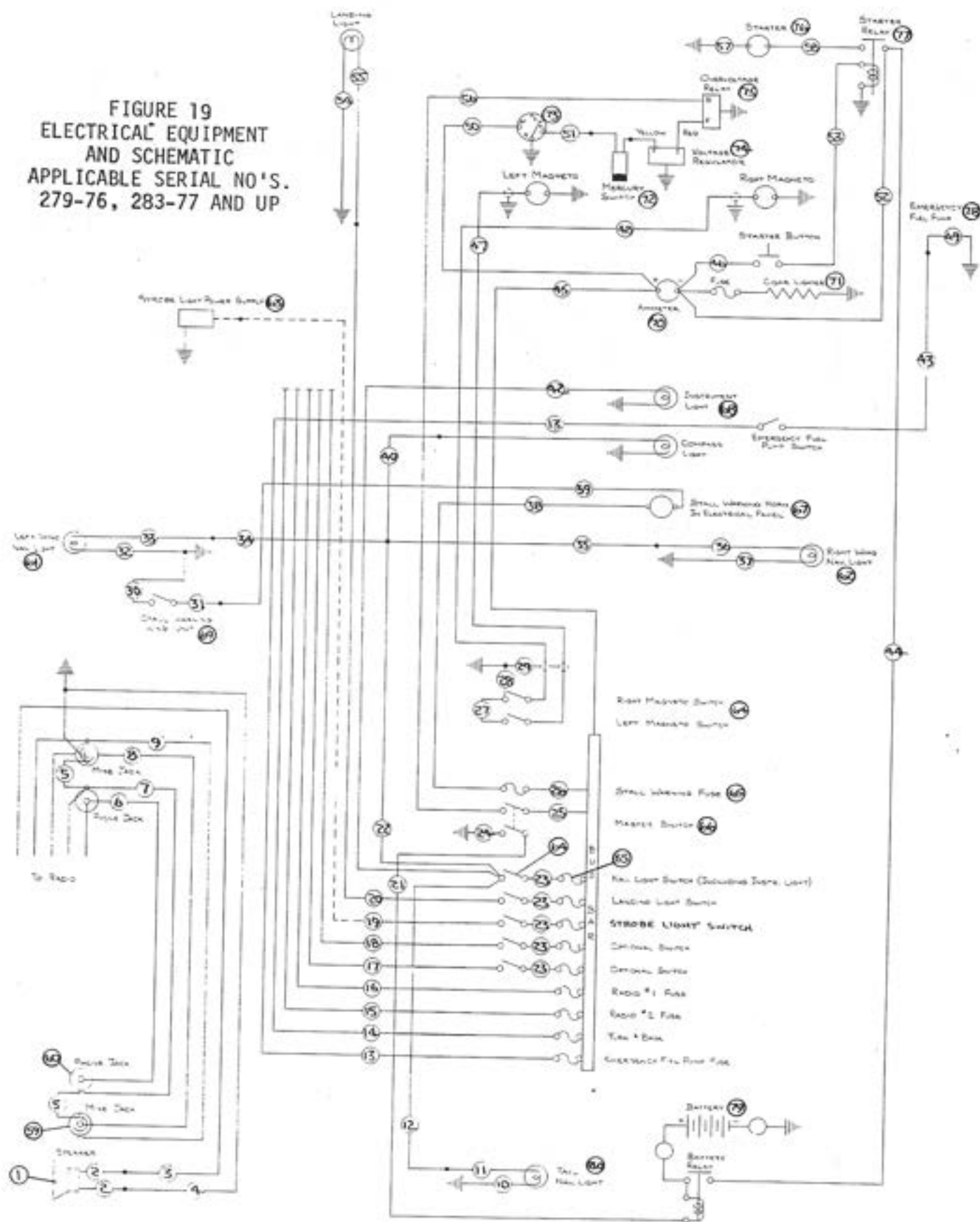




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
19-	4-1543	DRAWING - SCHEMATIC ELECTRICAL SYSTEM	
1	57F0S	SPEAKER	1
2	150	WIRE (SPEAKER)	1
3	30	WIRE (SPEAKER TO RADIO)	1
4	180	WIRE (SPEAKER TO GROUND)	1
5	146	WIRE (JACK JUMPER)	2
6	37	WIRE (PHONE JACK)	1
7	36	WIRE (PHONE JACK)	1
8	34	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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
19-48	41	WIRE (RIGHT MAGNETO) 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

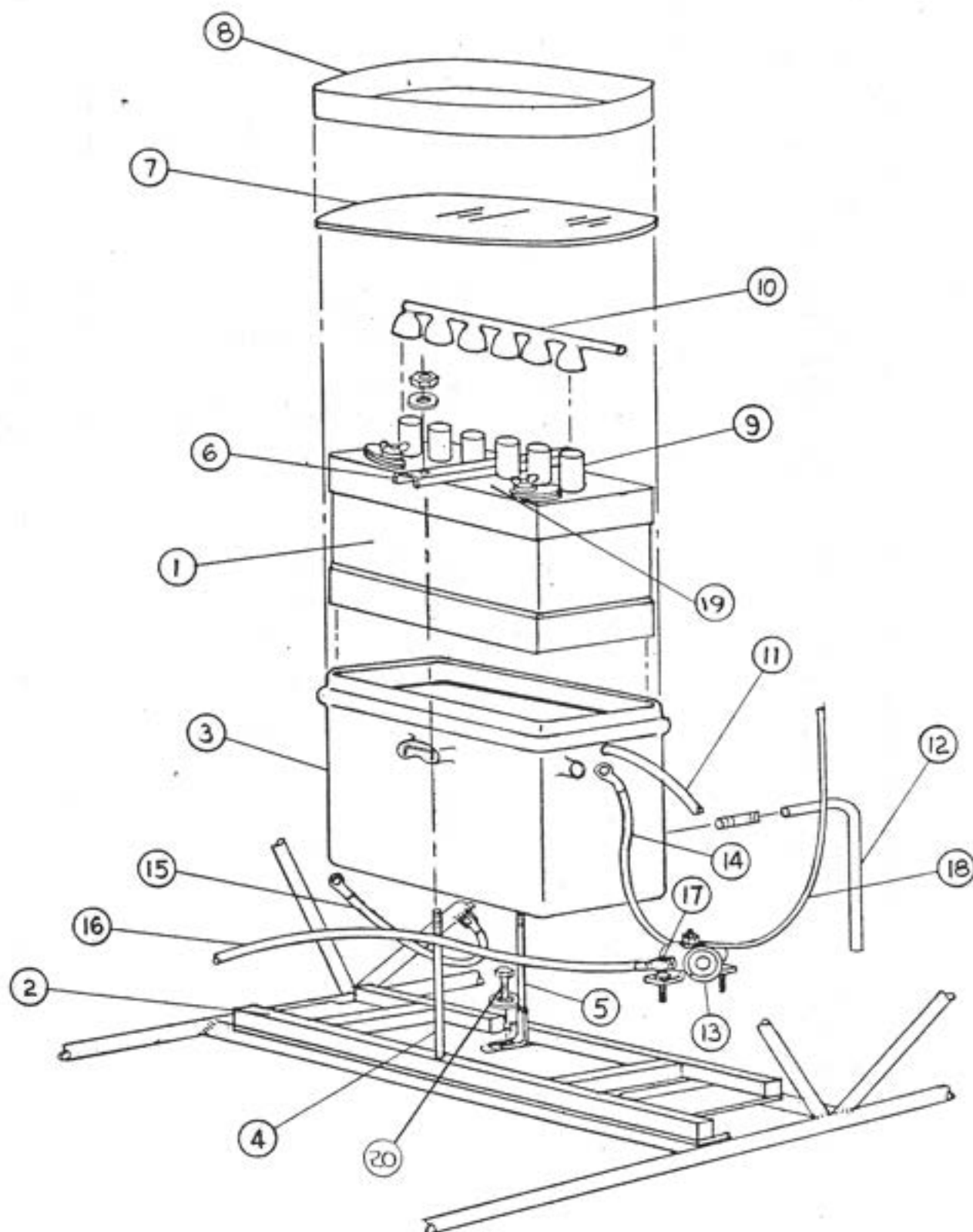


FIGURE 20
INSTALLATION - BATTERY



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

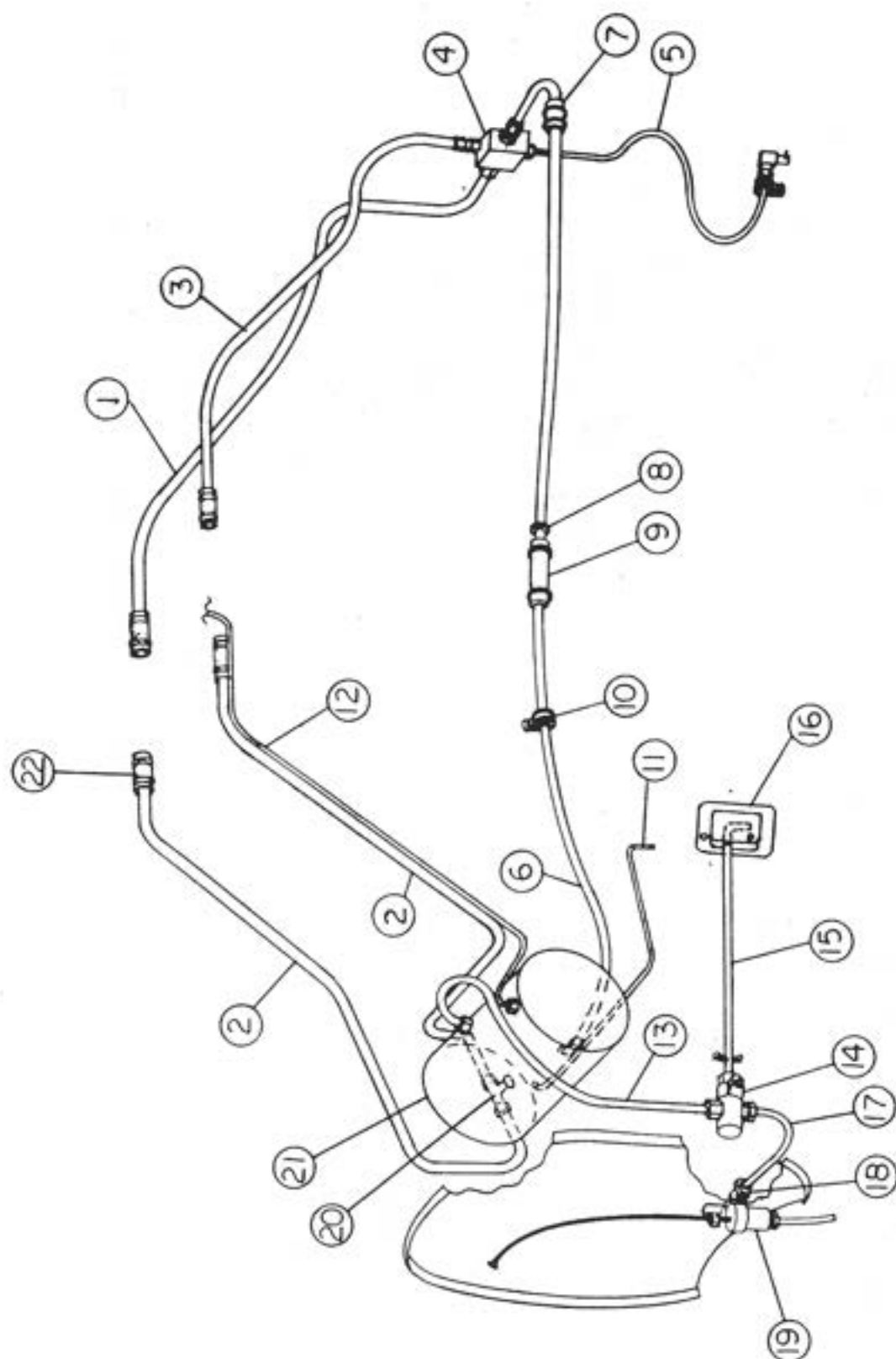


FIGURE 21
INSTALLATION - FUSELAGE FUEL SYSTEM



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y	
21- 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
	21	AN819-6D	SLEEVE	2
		4-1534	FUEL TANK	1
	22	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	
1-8832-4		HOSE	4	
ASB-11		CLAMP	8	

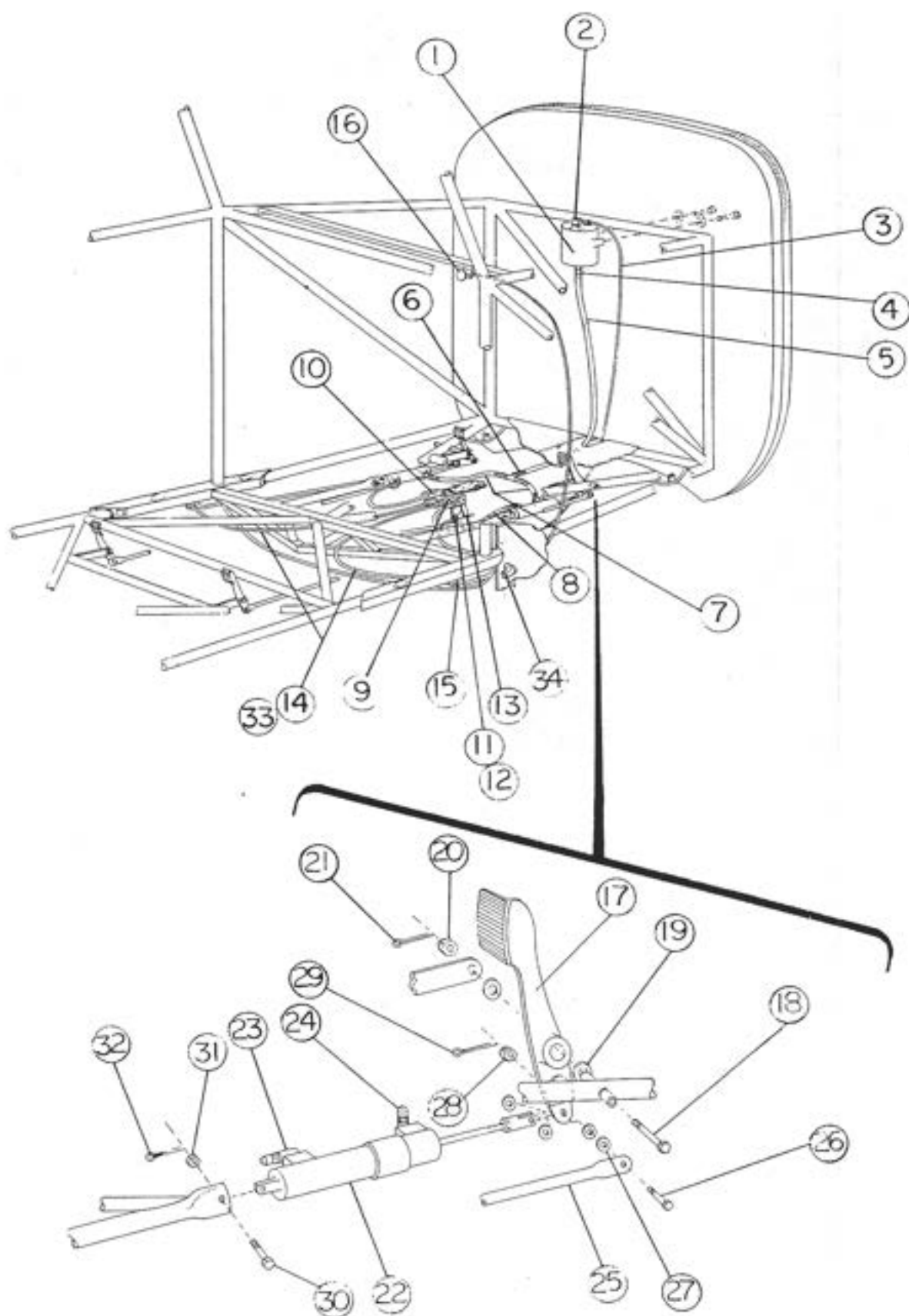


FIGURE 22
INSTALLATION - BRAKE
SYSTEM - HEEL

Reissued 5-1-79



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
22-	4-1557	DRAWING - INSTALLATION GERDES BRAKE SYSTEM (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 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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- ATION)	2
34	AN833-4D	ELBOW - REQ'D FOR WRAPAROUND INSTALLATION	2
	AN960-716	WASHER	2
	AN924-4D	NUT	2

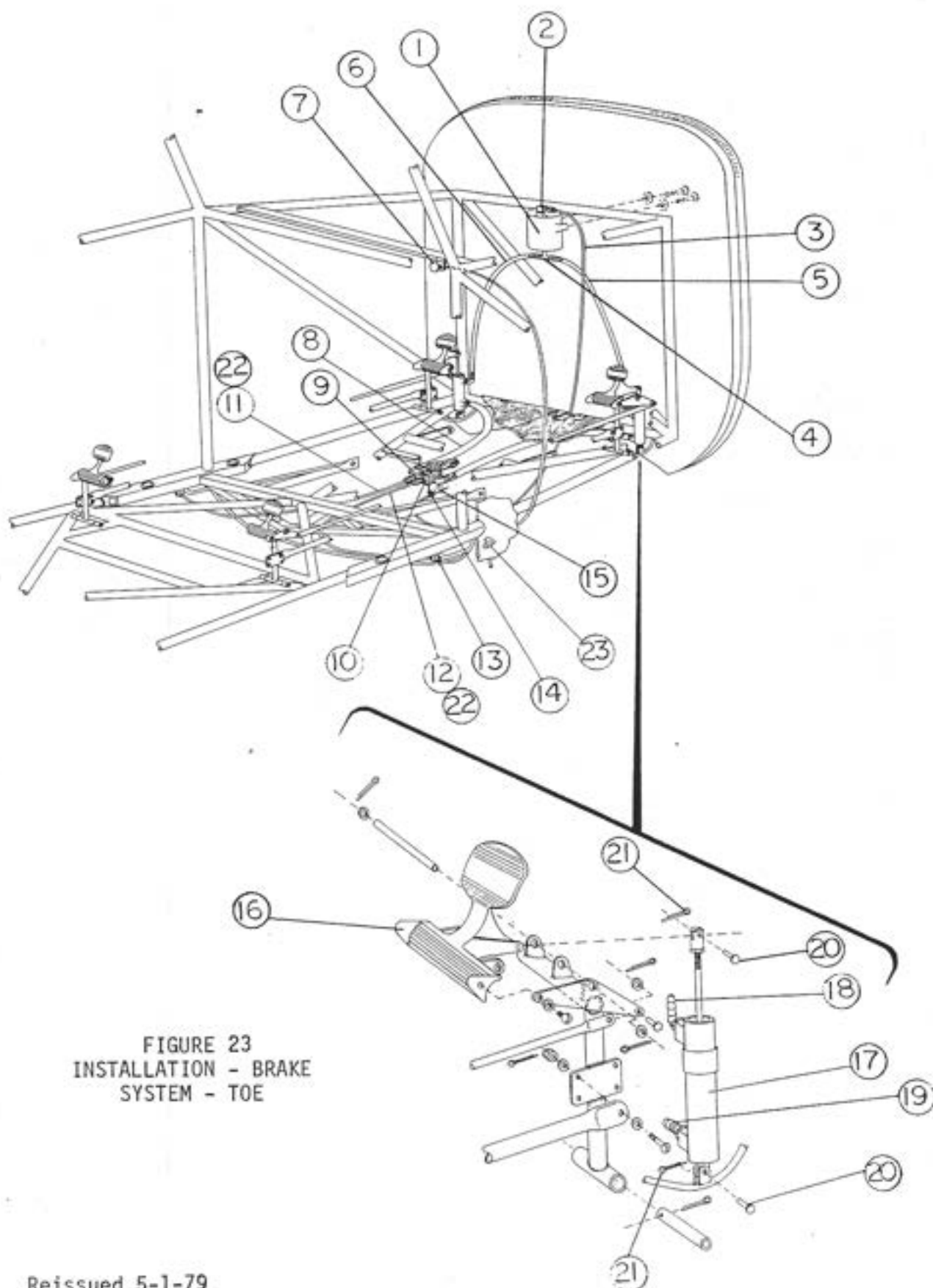


FIGURE 23
INSTALLATION - BRAKE
SYSTEM - TOE



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

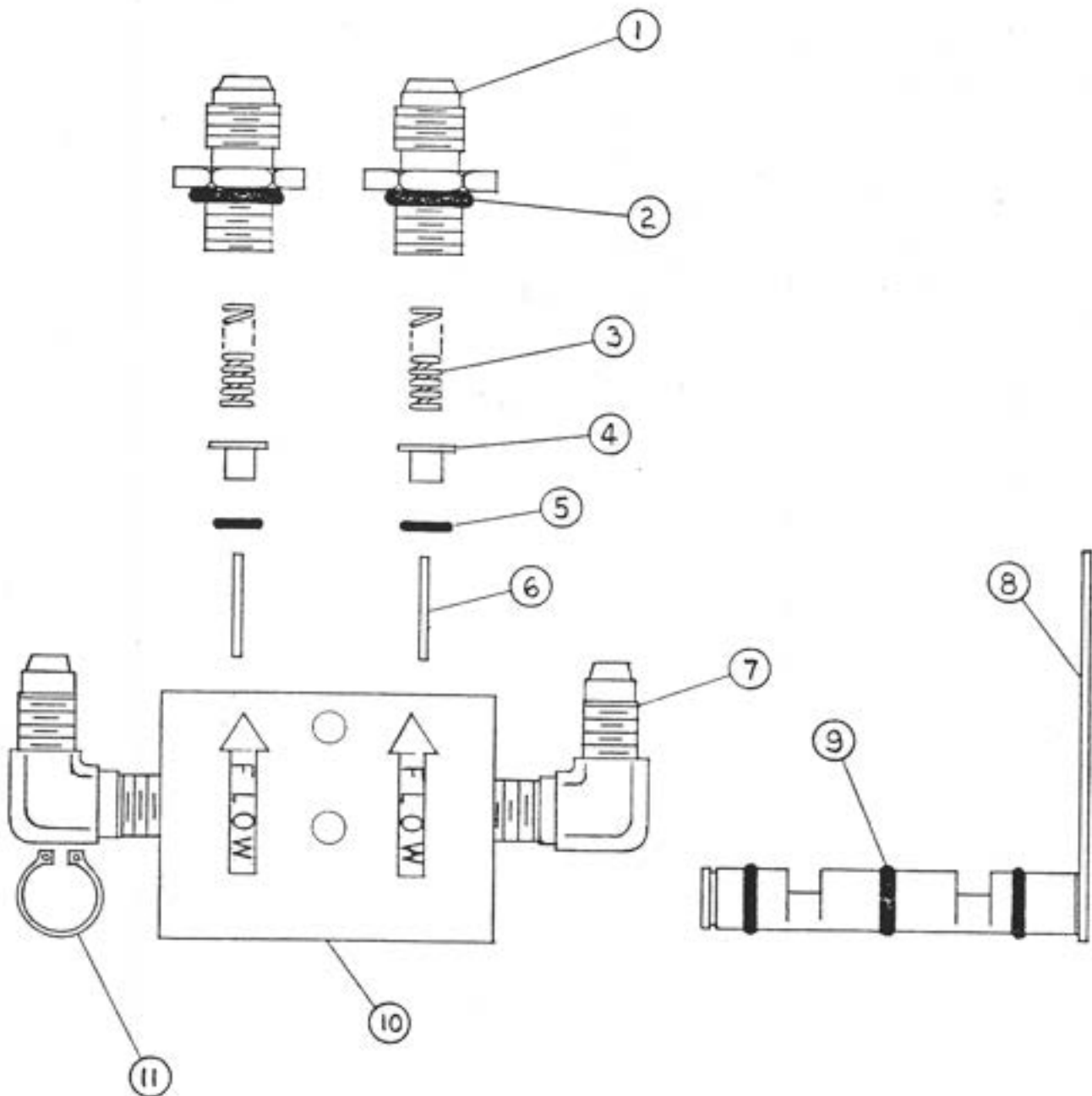


FIGURE 24
ASSEMBLY - PARKING BRAKE VALVE



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

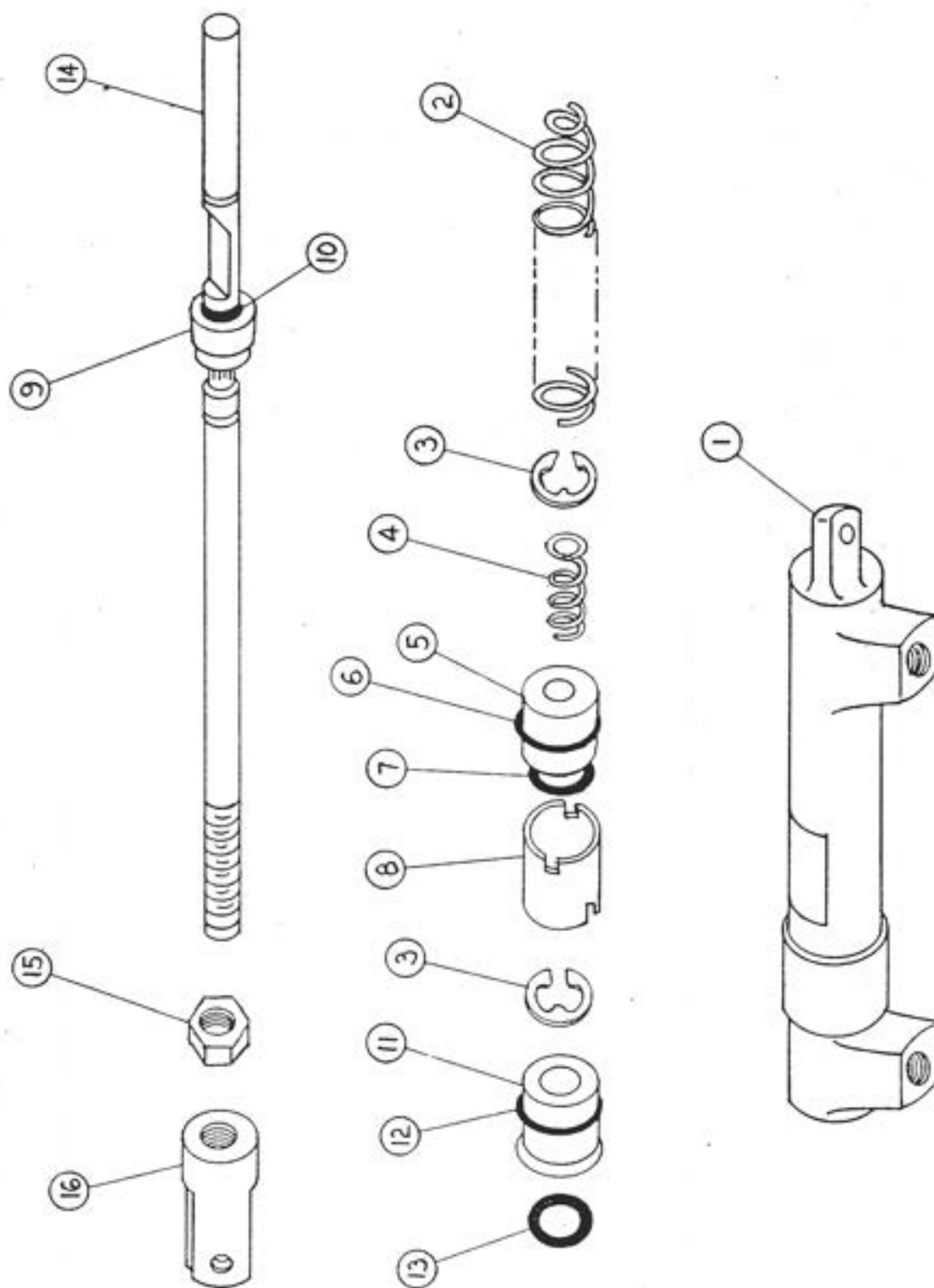


FIGURE 25
ASSEMBLY - MASTER CYLINDER



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

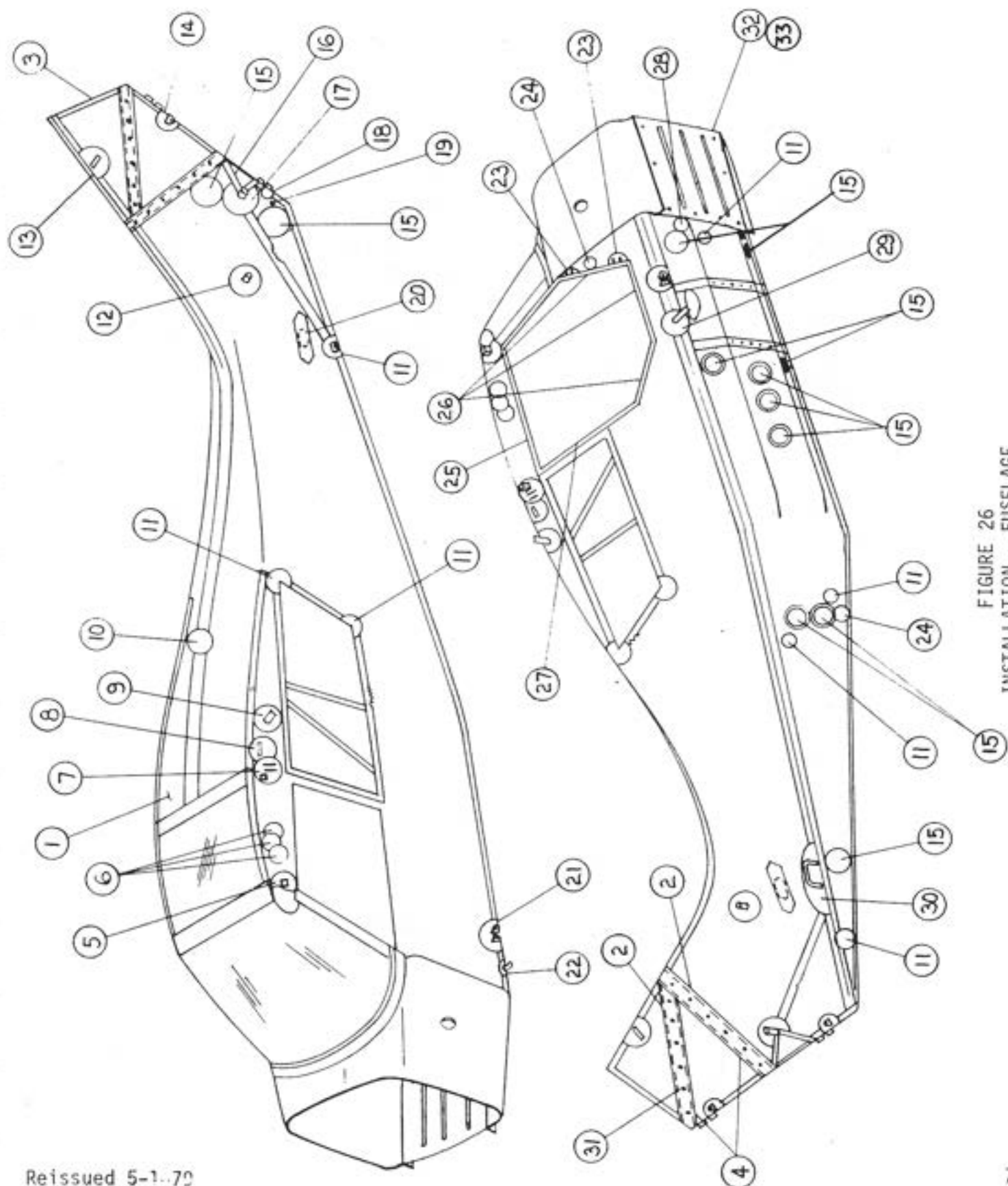


FIGURE 26
INSTALLATION - FUSELAGE
COVERING



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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. 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

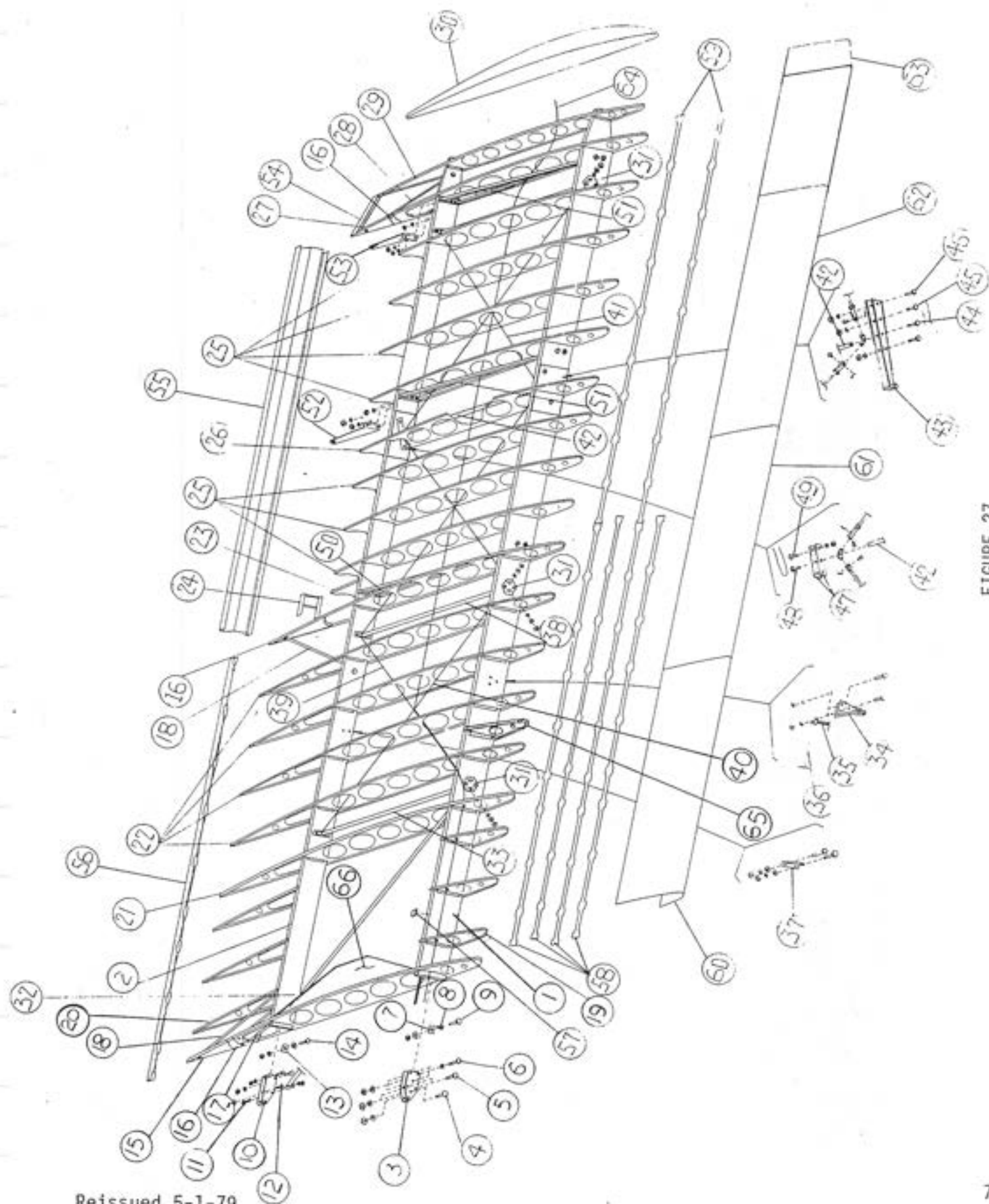


FIGURE 27
ASSEMBLY - WING FRAME
PRE 1978 MODELS



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
27-	7-1401	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	5-366R	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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 (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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

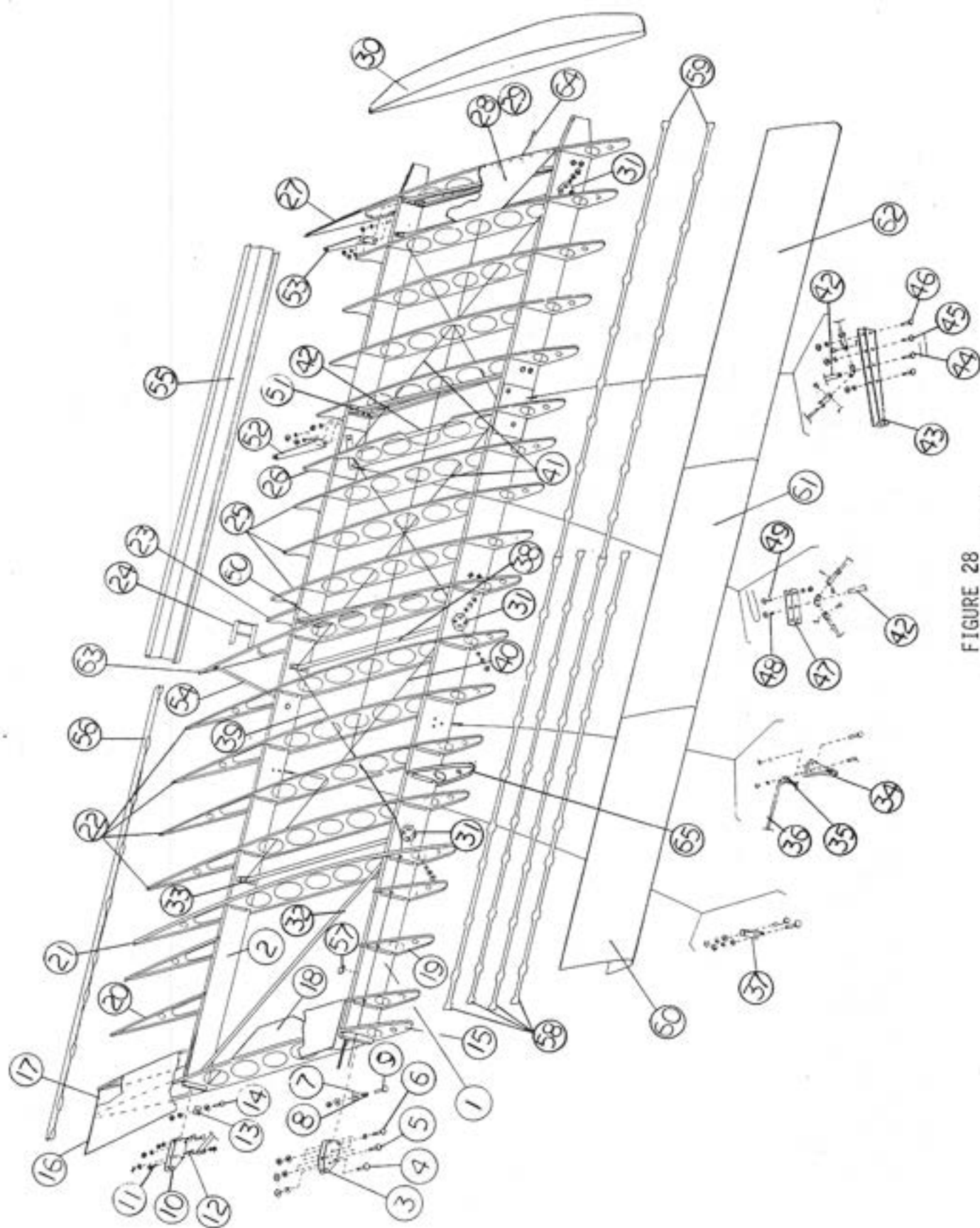


FIGURE 28
ASSEMBLY WING FRAME
1978 MODELS AND UP



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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

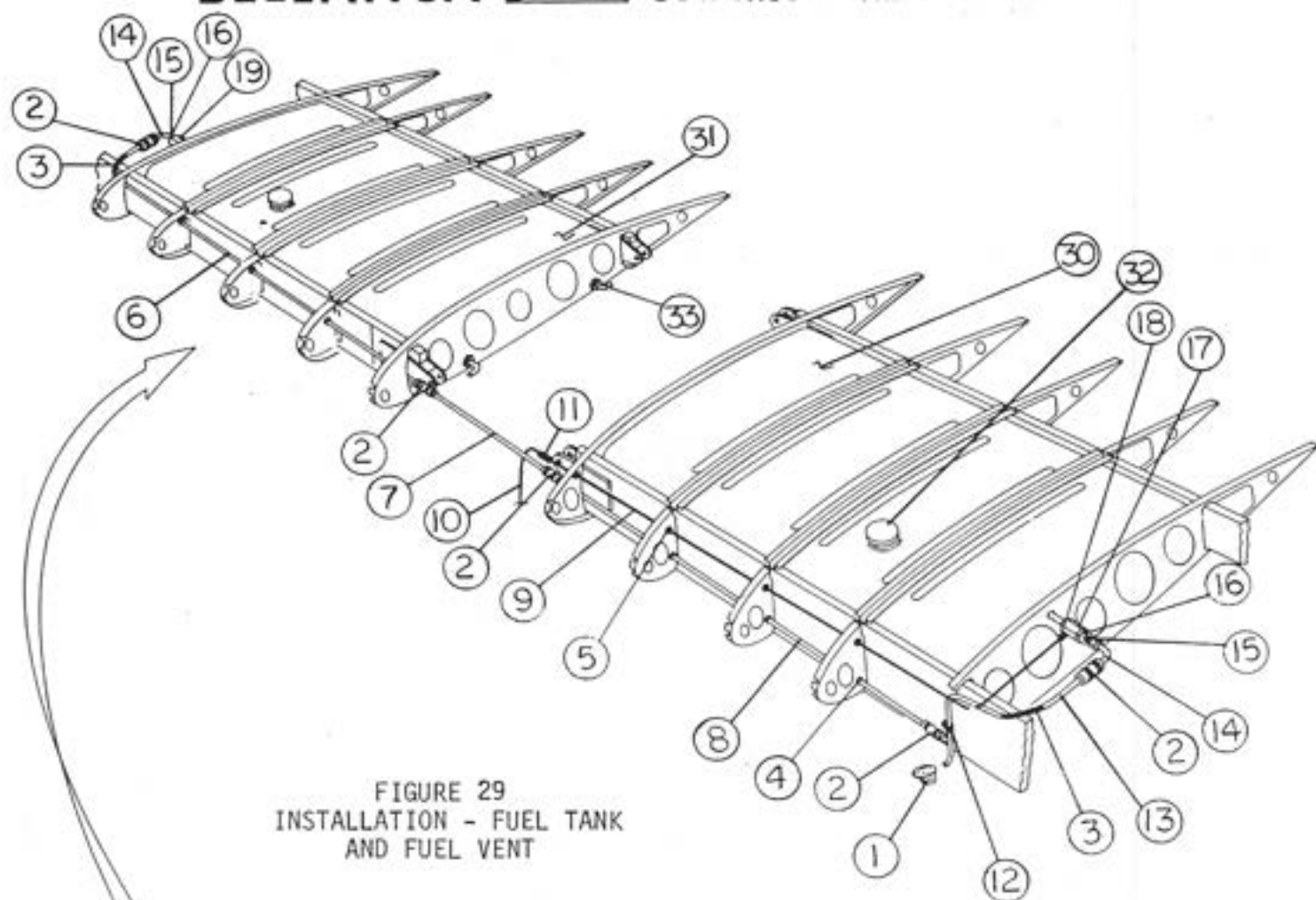


FIGURE 29
INSTALLATION - FUEL TANK
AND FUEL VENT

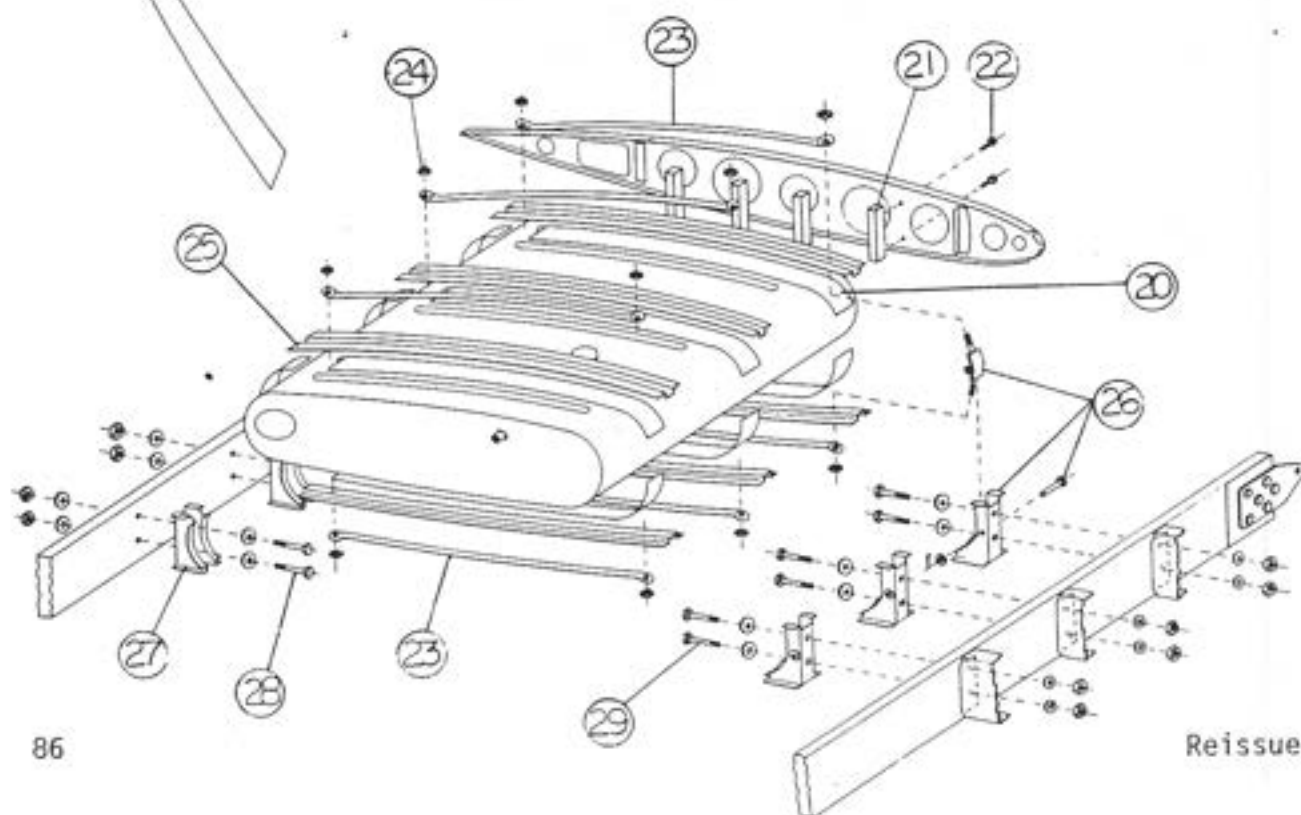




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
29-	4-1525 7-1402	DRAWING - INSTALLATION - FUEL VENT SYSTEM DRAWING - INSTALLATION - WING FUEL TANK	
1	3-1509	VENT - DEFLECTOR	1
	AS6-4-6SS	SCREWS	6
2	1-8832-4	HOSE	3
	AS8-11	CLAMP	6
3	4-1525-5	TUBE - PLASTIC COVER	2
4	AC930-1	GROMMETS	11
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 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

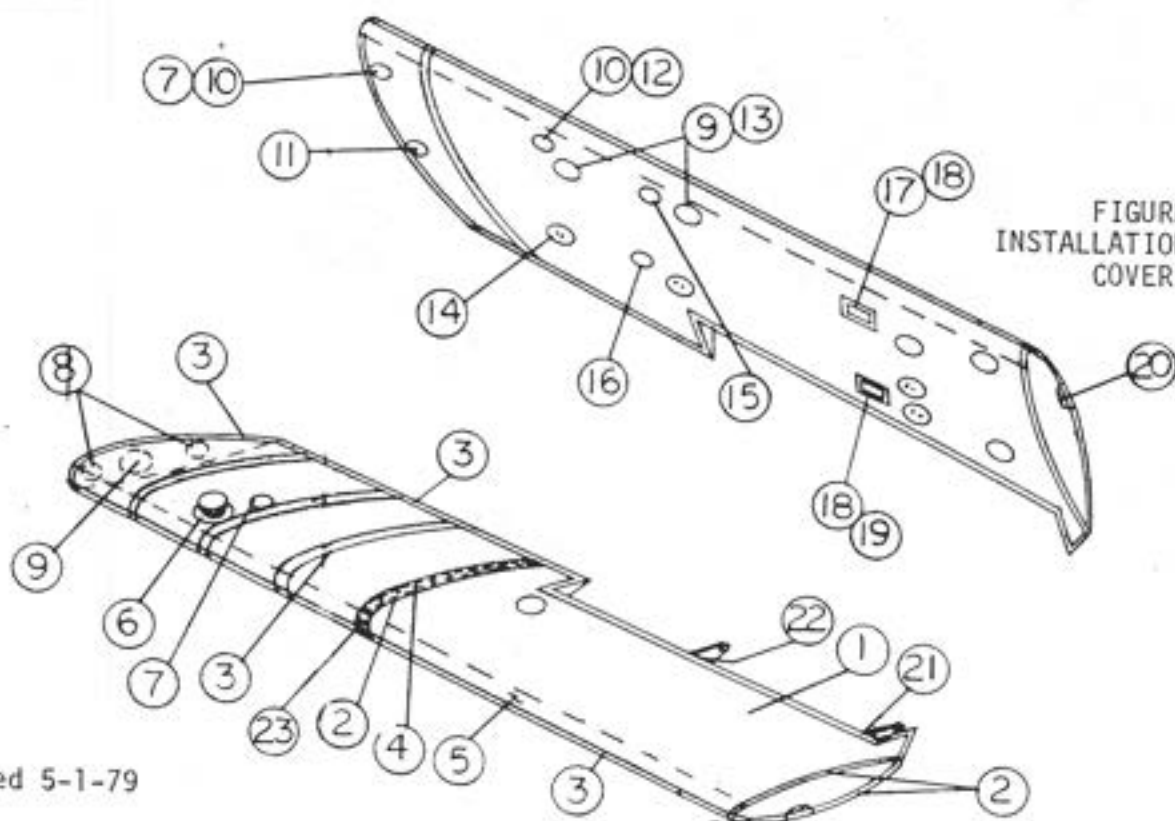


FIGURE 30
INSTALLATION - WING
COVERING



FIGURE 31
INSTALLATION LANDING
GEAR CLEVELAND WHEELS

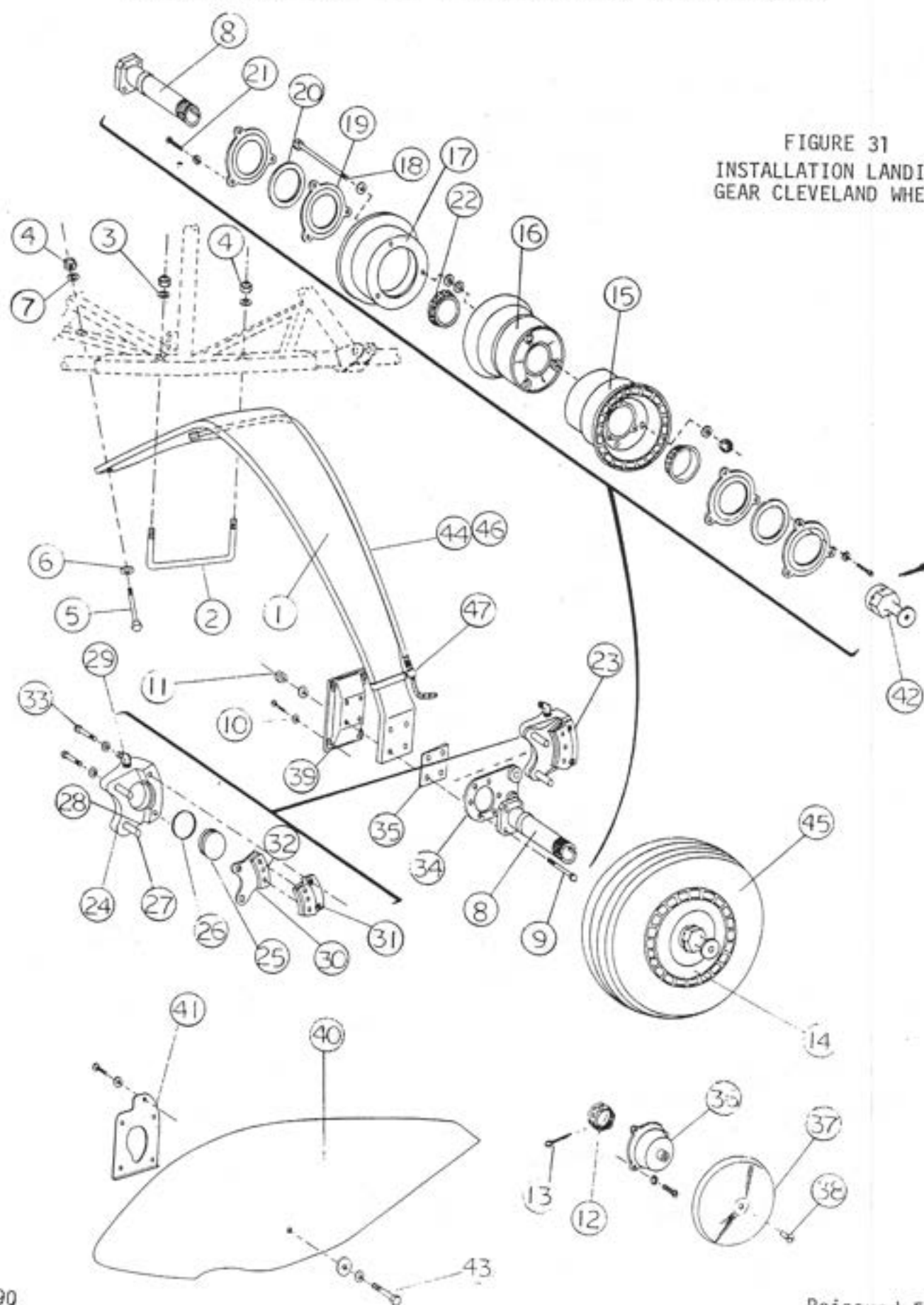




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
31-	4-1474 7-1307	DRAWING - INSTALLATION WHEEL PANTS DRAWING - INSTALLATION LANDING GEAR	
1	7-1404	GEAR LEG	1L/1R
2	1-9805	"U" BOLT	2
3	MS20002-7	WASHER	4
4	ZEB1845-070	NUT	6
5	MS20007-32	BOLT	2
6	MS20002C7	WASHER (UNDER BOLT HEAD)	2
7	MS20002-7	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 (040-02804)	WHEEL ASSEMBLY - CLEVELAND	2
15	3041A (162-00600)	OUTER WHEEL HALF ASSEMBLY	1
	13836 (214-00100)	CUP BEARING	1
16	161-16 (161-01600)	INNER WHEEL HALF ASSEMBLY	1
	13836 (214-00100)	CUP BEARING	1
17	164-5 (164-00500)	BRAKE DISC ASSEMBLY	1
18	AN4-36A AN365-428 AN960-416	BOLT (WHEEL HALF ATTACHMENT) NUT WASHER	3 3 3
19	B39094 (153-00500)	RING - GREASE SEAL	4
20	39092 (154-00500)	FELT - GREASE SEAL	2
21	832 x 1/2" (102-05100)	SCREW	6
	1208 (095-15100)	LOCK WASHER	6
22	13889 (214-00200)	CONE - BEARING	2
23	30-19A (030-01901)	BRAKE ASSEMBLY - CLEVELAND	2
24	61-6 (061-00200)	CYLINDER - BRAKE	1
25	3002 (062-00300)	PISTON	1



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
31-26	AN6227-23 (101-02300)	"O" RING	1
27	3013 (069-00200)	BOLT - ANCHOR	2
	AN960-616L	WASHER	2
	AN364-624	NUT	2
28	FC6446 (079-00300)	SCREW - BLEEDER	1
	37-206 (081-00100)	SEAT - BLEEDER	1
	183-1 (183-00100)	CAP - BLEEDER (RUBBER)	1
29	AN823-4D	ELBOW 45°	1
30	63-5 (063-00500)	PLATE - PRESSURE	1
	3006 (066-00200)	LINING	1
	561 (105-00200)	RIVETS	3
31	3012 (064-00500)	PLATE - BACK	1
	3006 (066-00200)	LINING	1
	561 (105-00200)	RIVET	3
32	68-4 (068-00400)	SHIM	1
33	AN4H-15A (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	BOLT (PANT ATTACHMENT) OUTBOARD	2
	1-10555	WASHER	2
44	1-10292	BRAKE LINE ASSEMBLY	2
	601000-4-0080	HOSE ASSEMBLY - FLEXIBLE	2
	AN815-4D	UNION	2



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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
*NOTE: SEE SERVICE MANUAL FOR TIRE SIZE LIMITATIONS.			

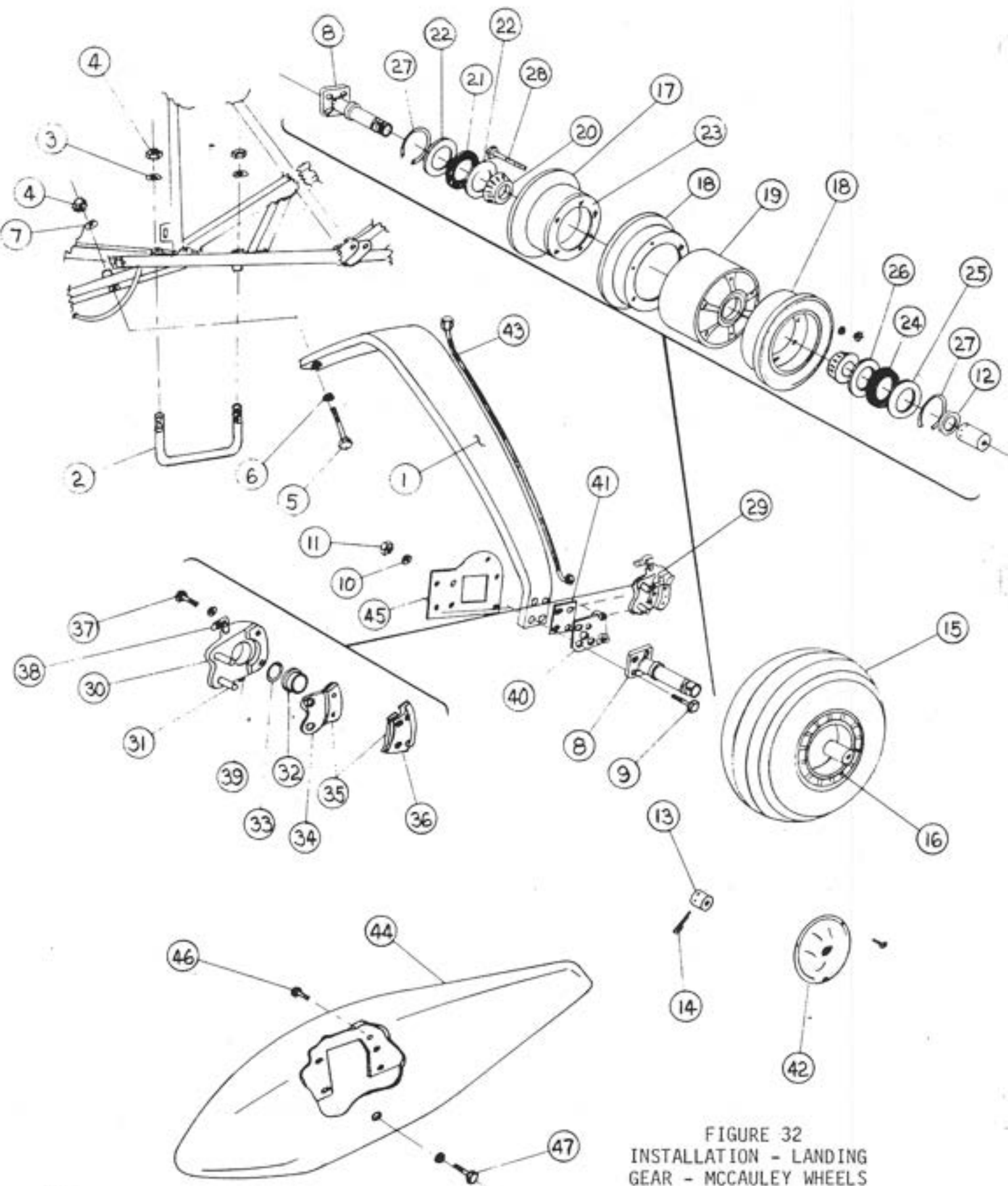


FIGURE 32
INSTALLATION - LANDING
GEAR - MCCAULEY WHEELS

Reissued 5-1-79



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
32-	4-1583 7-1307	DRAWING - INSTALLATION WHEEL PANTS DRAWING - INSTALLATION LANDING GEAR	
1	7-1291	GEAR LEG (STRAIGHT LOWER END)	1L/1R
2	7-1404	GEAR LEG (RADII 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 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 - NC-2	BOLT (PANT ATTACHMENT)	2
	AN936-A516	WASHER	2

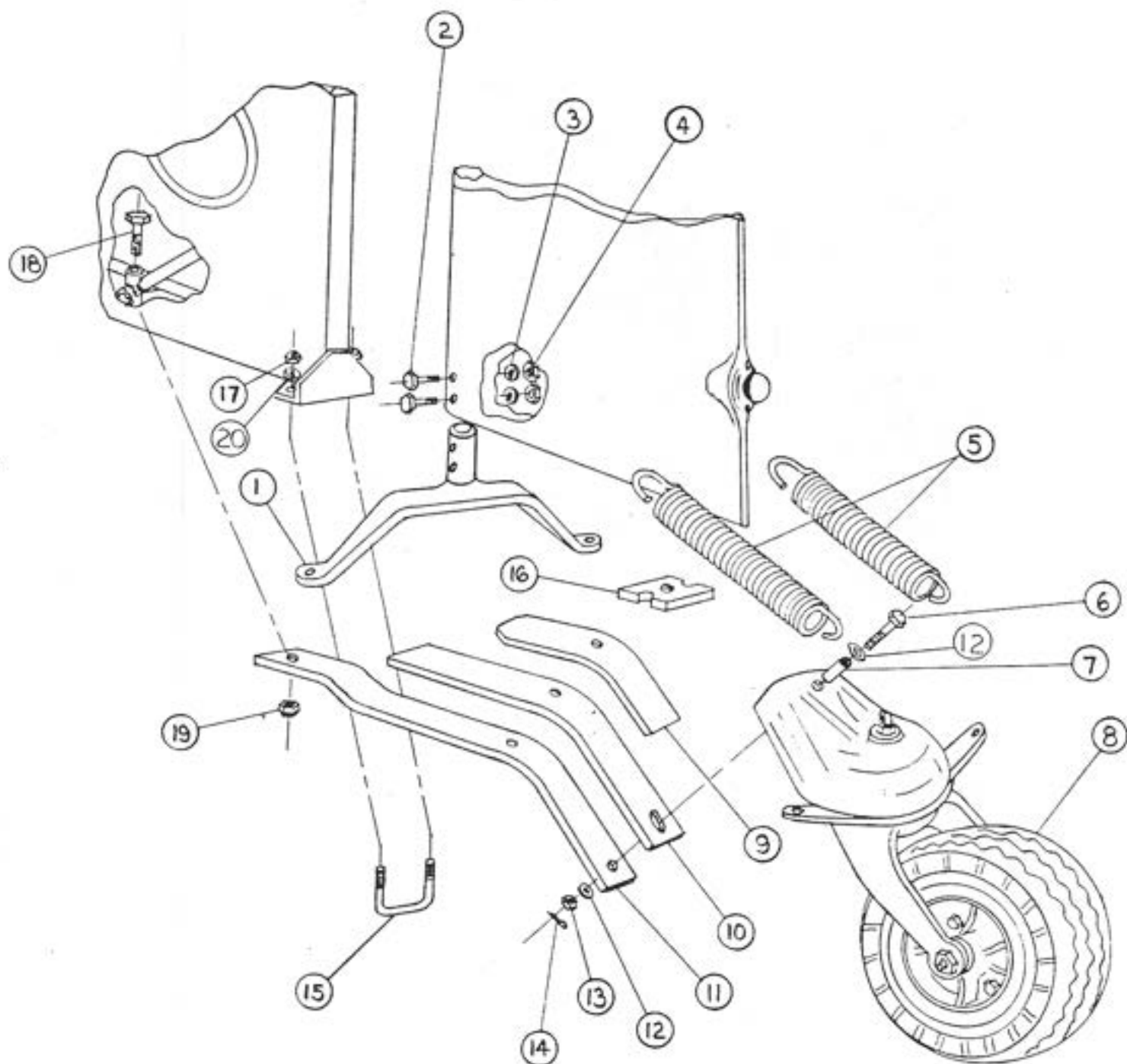


FIGURE 33
INSTALLATION - TAIL WHEEL



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

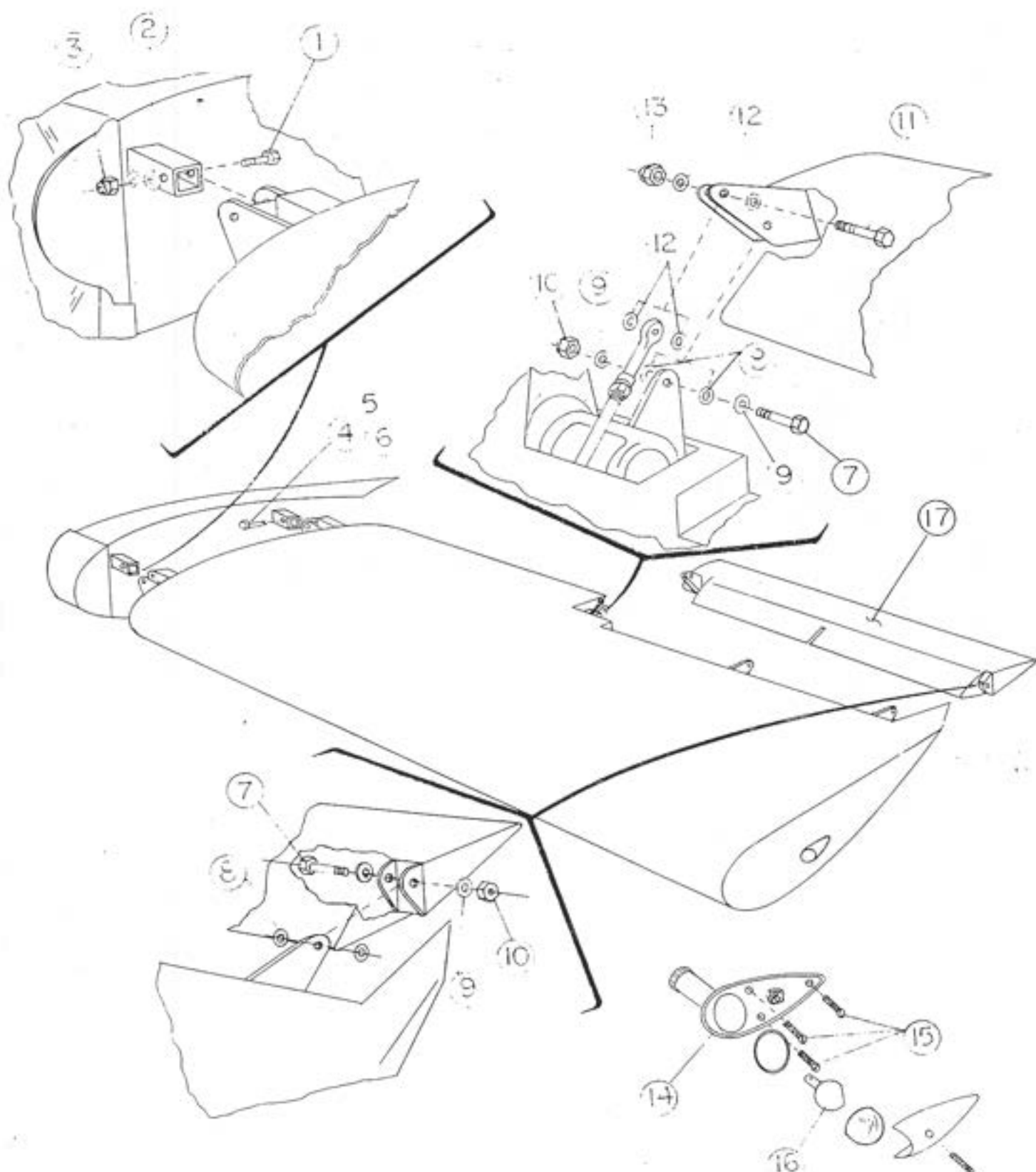


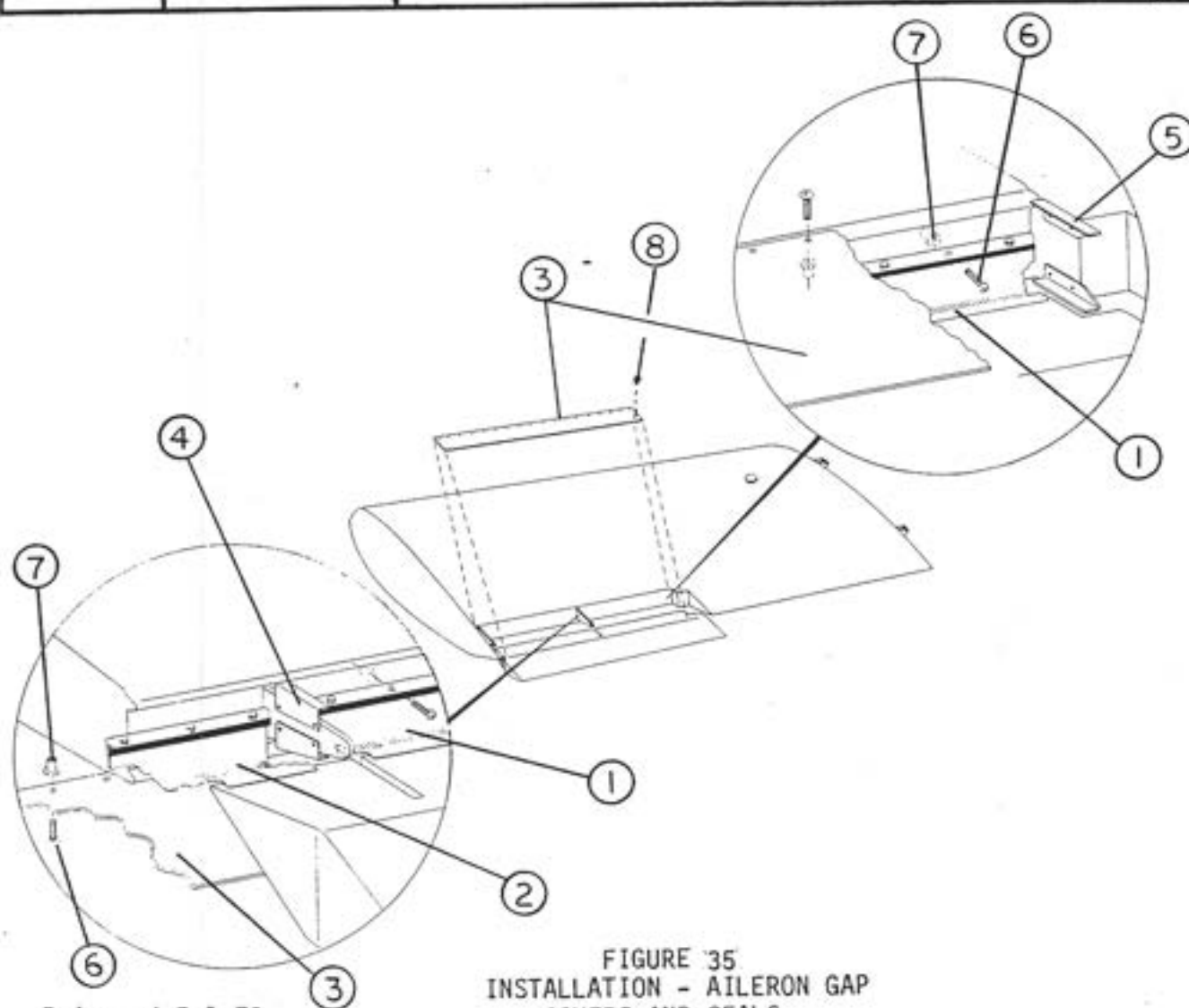
FIGURE 34
INSTALLATION - WING AND AILERON



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
34-	7-1520	DRAWING - INSTALLATION WINGS AND STRUTS	
		<u>NOTE:</u> PART LISTED ARE FOR ONE WING 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

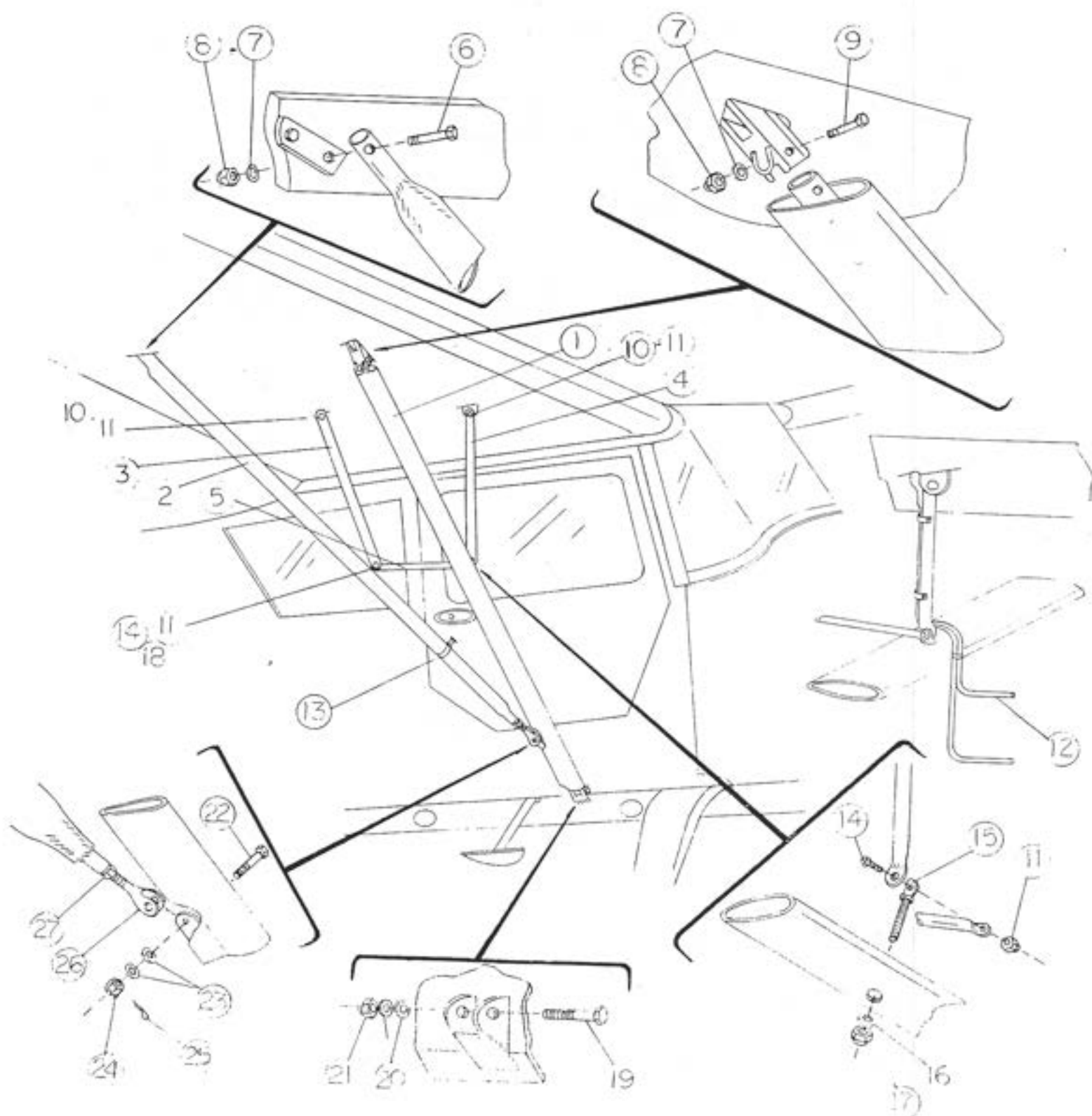


FIGURE 36
INSTALLATION - WING STRUTS



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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.		

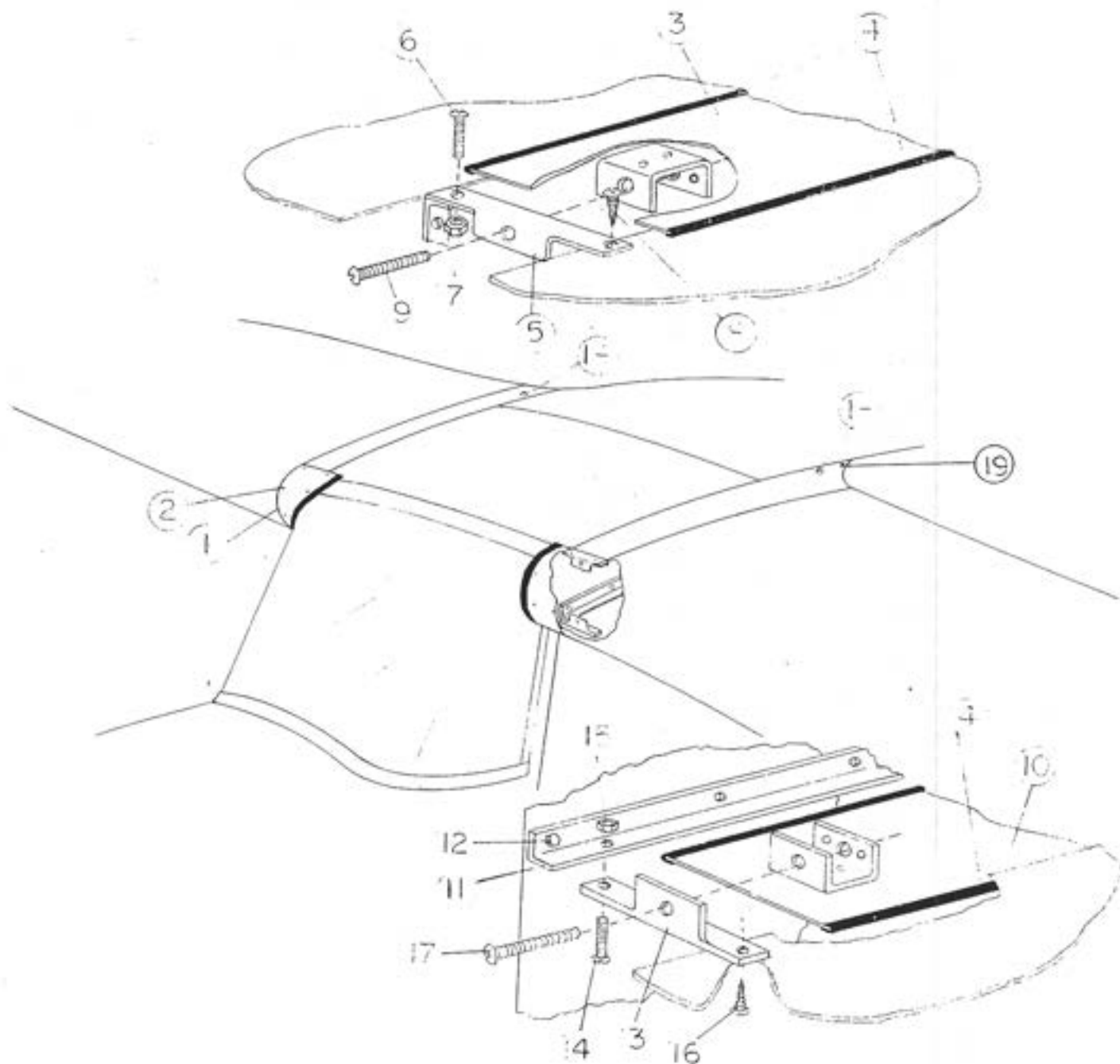


FIGURE 37
INSTALLATION - WING GAP COVERS
PRE 1978 MODELS



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
37-	4-1537	*DRAWING - INSTALLATION GAP COVER 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

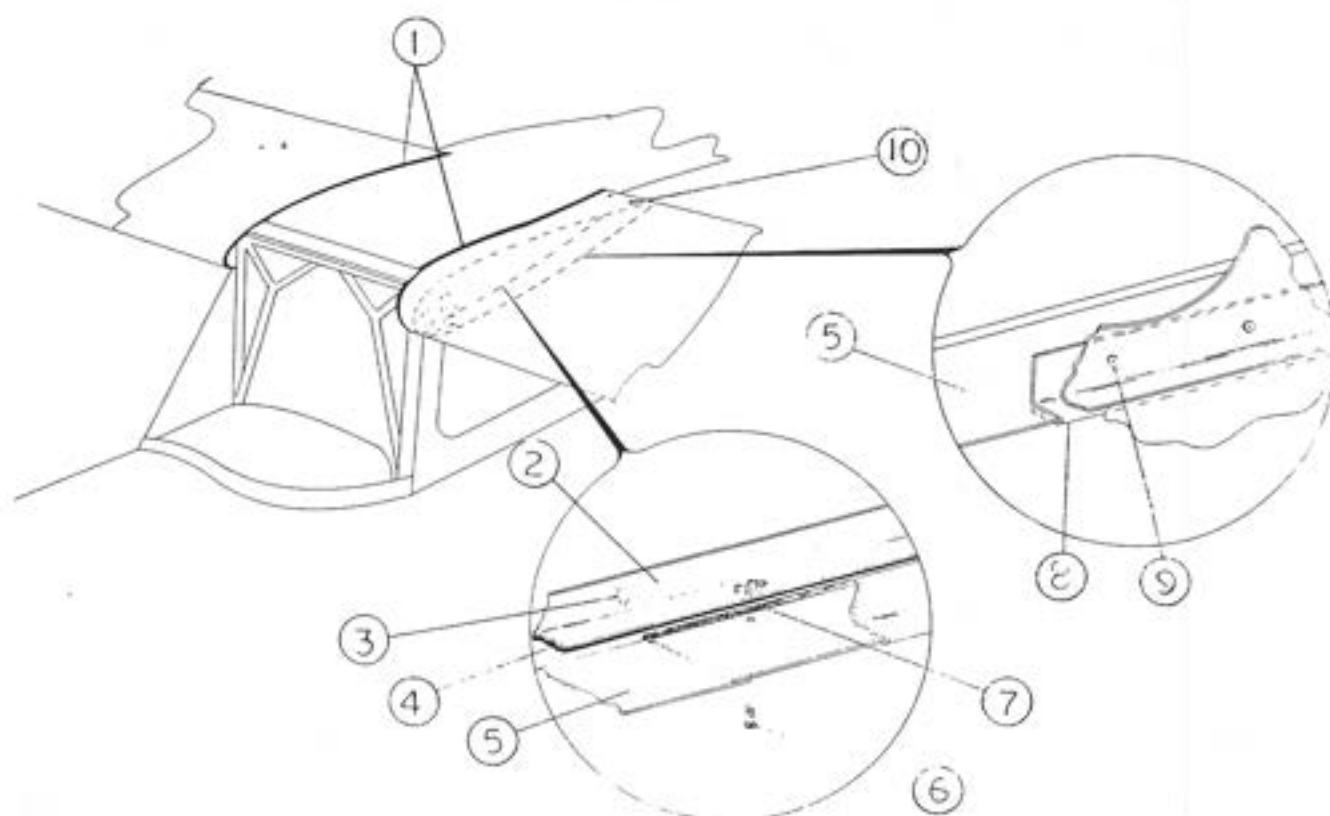


FIGURE 38
INSTALLATION GAP COVERS 1978 AND LATER MODELS

Reissued 5-1-79

FIGURE 39
INSTALLATION - TAIL
SURFACES

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

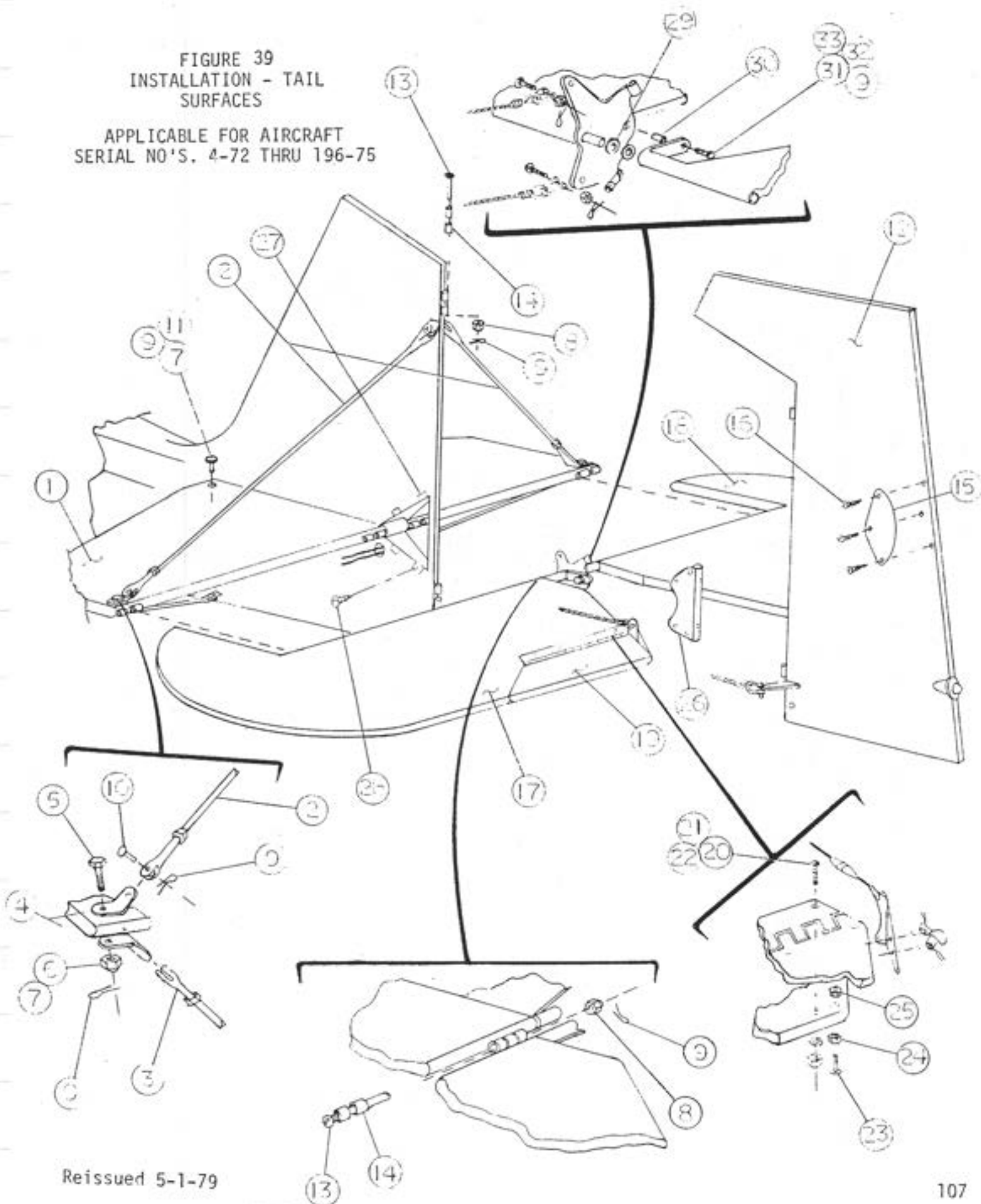




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
39-	7-1501	DRAWING - INSTALLATION TAIL SURFACES	
1	4-1481	STABILIZER - COVERED	1L/1R
	4-1478	STABILIZER - FRAME	1
2	2-1746-4	STABILIZER - DRAG WIRE ASSEMBLY - UPPER	2
3	3-1107-2	STABILIZER - DRAG WIRE ASSEMBLY - LOWER	2
4	1-2357	LUG - DRAG 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
<u>NOTE:</u> THIS INSTALLATION PERTAINS TO AIRCRAFT SERIAL NUMBERS 4-72 THRU 196-75.			

FIGURE 40
INSTALLATION - TAIL SURFACES
BEARINGS

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

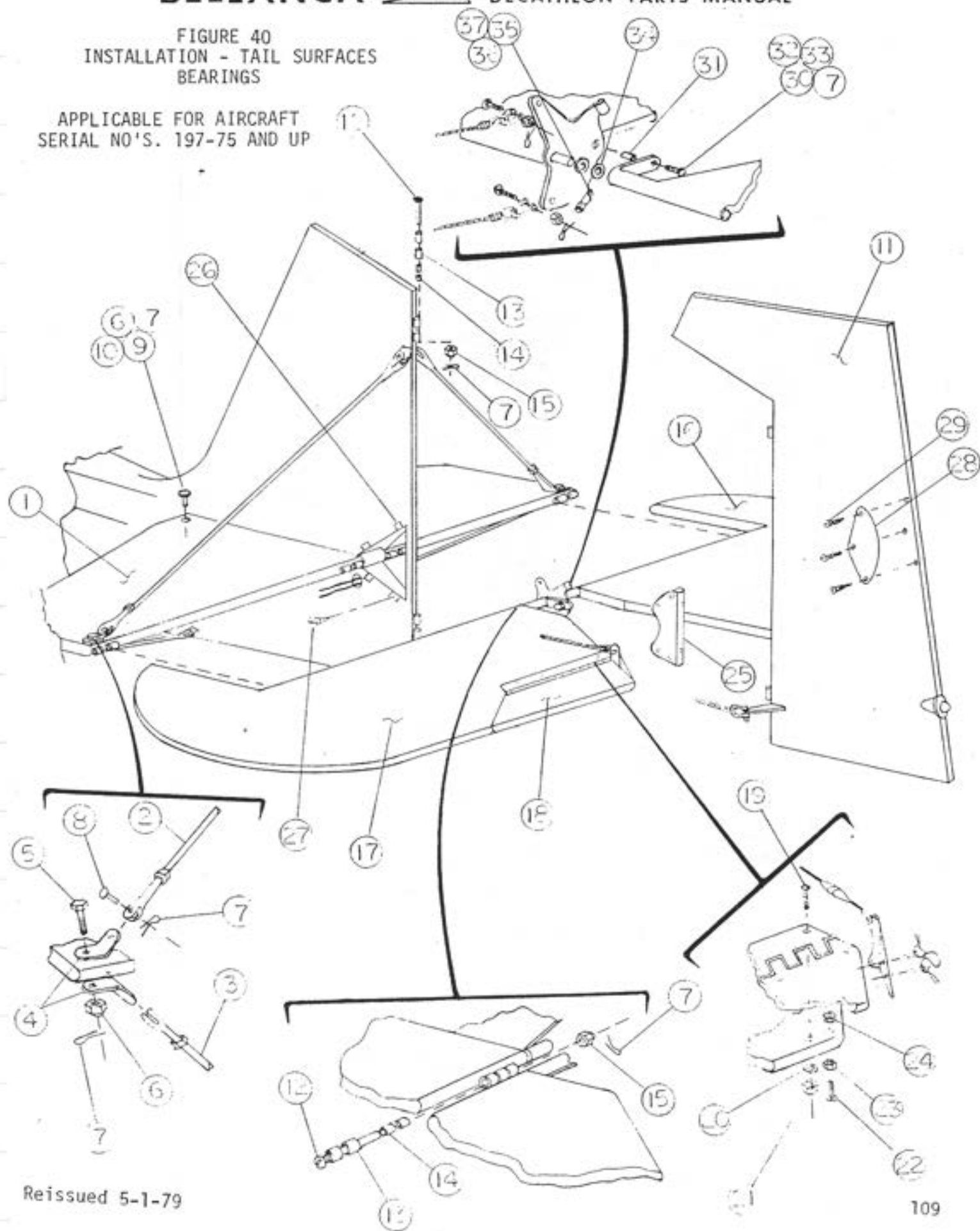


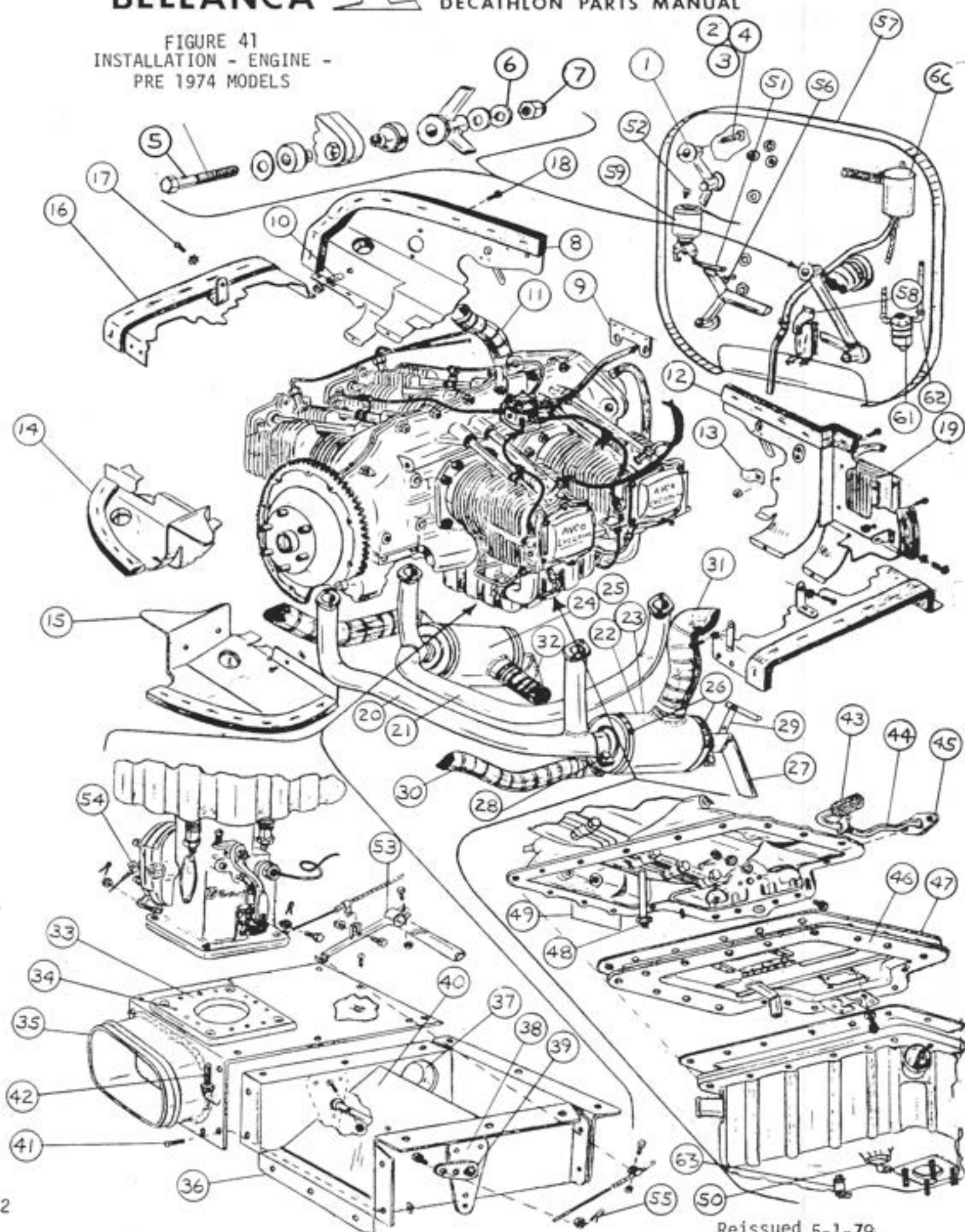


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
40-	7-1487	DRAWING - INSTALLATION TAIL SURFACES (BEARINGS)	1L/1R
1	4-1481	STABILIZER - COVERED	
	4-1478	STABILIZER - FRAME	
2	2-1746-4	STABILIZER - DRAG WIRE ASSEMBLY - UPPER (ROUND)	2
	2-2178-2	STABILIZER - DRAG WIRE ASSEMBLY - UPPER (STREAMLINE)	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 (ROUND)	2
	2-2178-1	STABILIZER - DRAG WIRE ASSEMBLY - LOWER (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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
41-	7-1312 7-1413	DRAWING - INSTALLATION INVERTED OIL SYSTEM 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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) (PUMP OUTLET TO ENGINE PUMP)	2



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 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 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 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

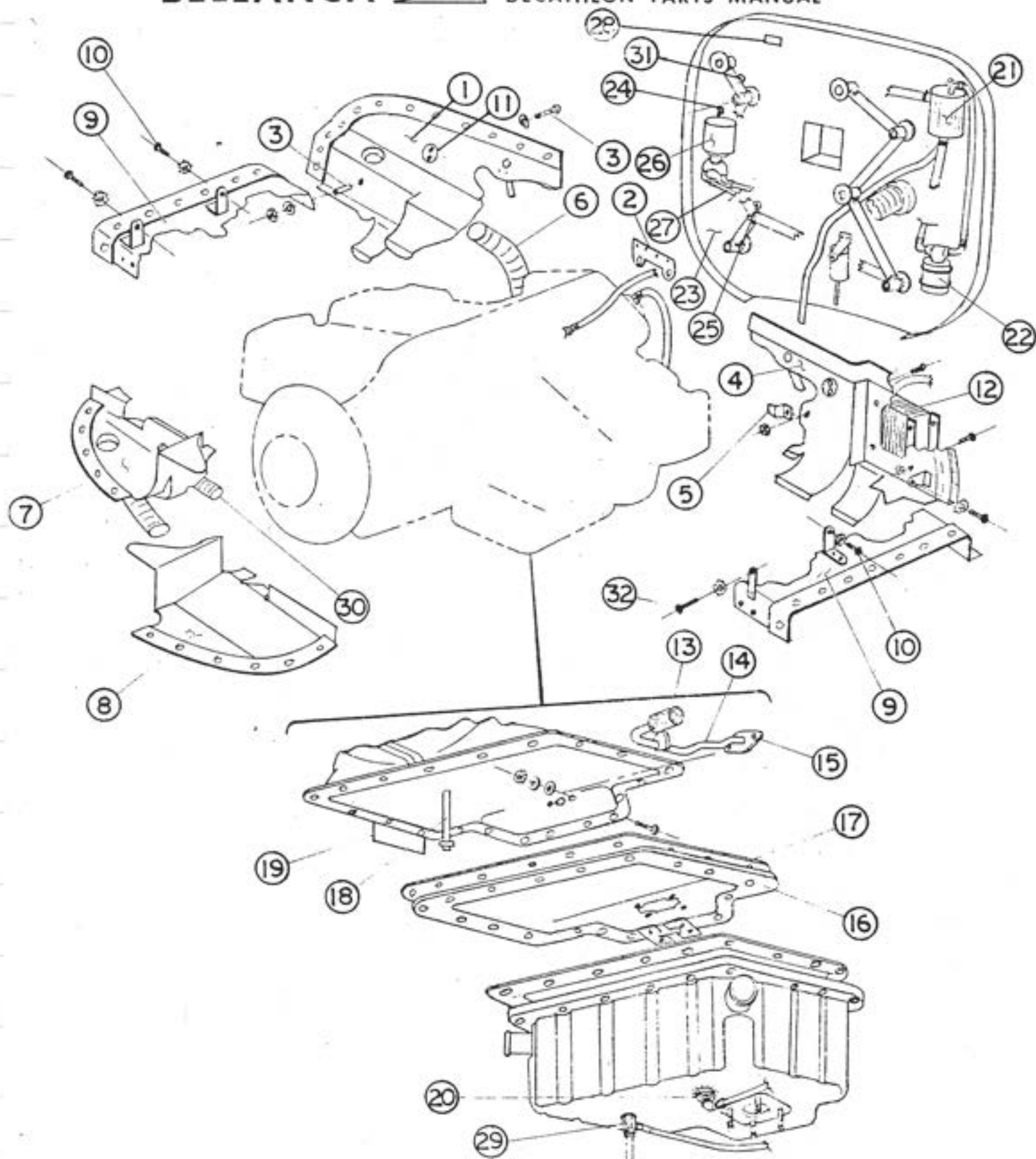


FIGURE 42
INSTALLATION - ENGINE EQUIPMENT
AND BAFFLES (10-320-E1B)



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
42-	7-1312 7-1413	DRAWING - INSTALLATION INVERTED OIL SYSTEM 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 OUTLET TO ENGINE PUMP)	2
	AN822-5-4D	ELBOW 90° - STRAINER	1



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

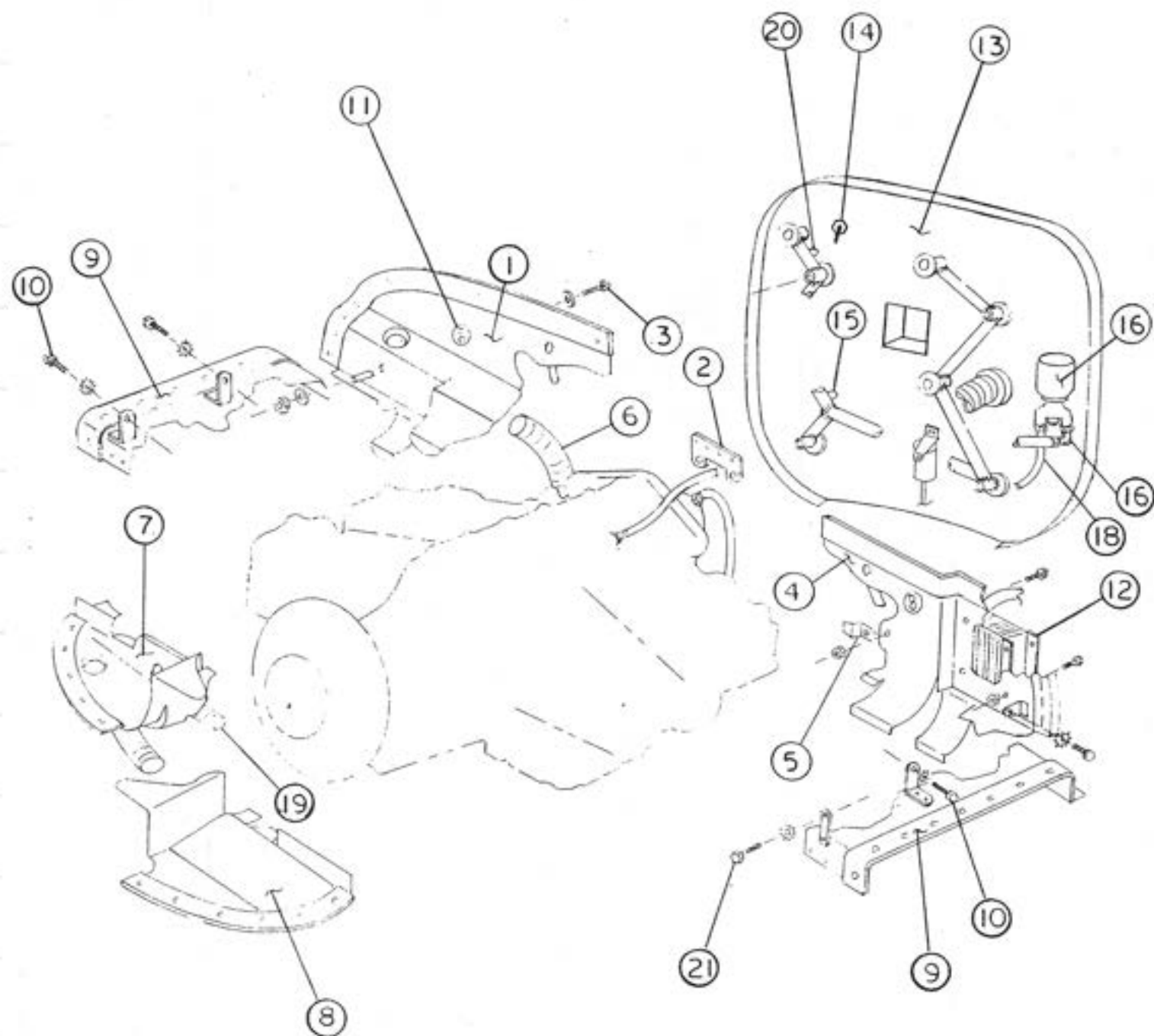


FIGURE 43
INSTALLATION - BAFFLES AND
OIL COOLER AE10-320-E1B



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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.

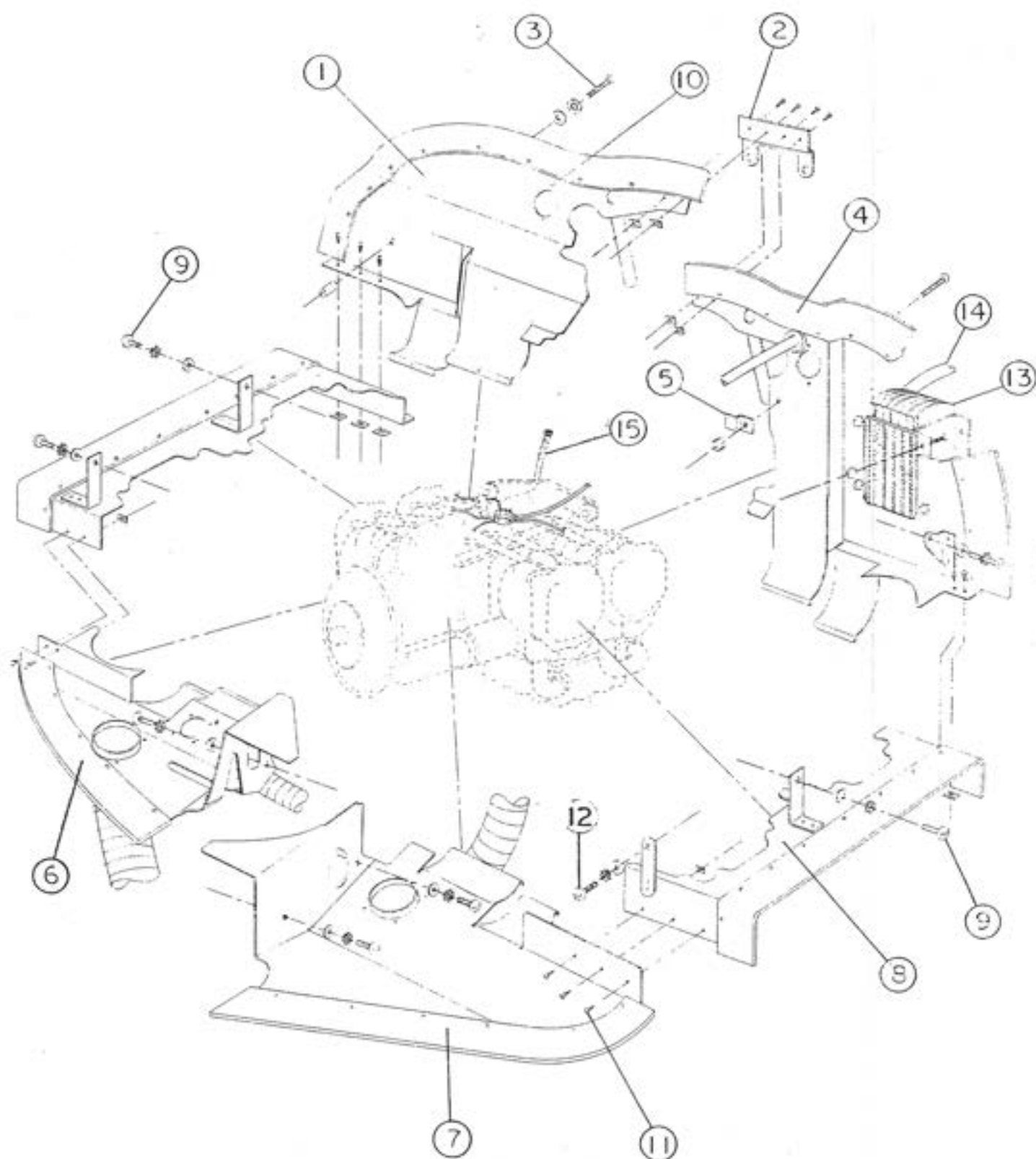


FIGURE 44
INSTALLATION ENGINE Baffles
AND OIL COOLER AE10-360-H1A



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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	1
9	AN526-420-8	SCREW - BAFFLE ATTACHMENT	1L/1R
	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

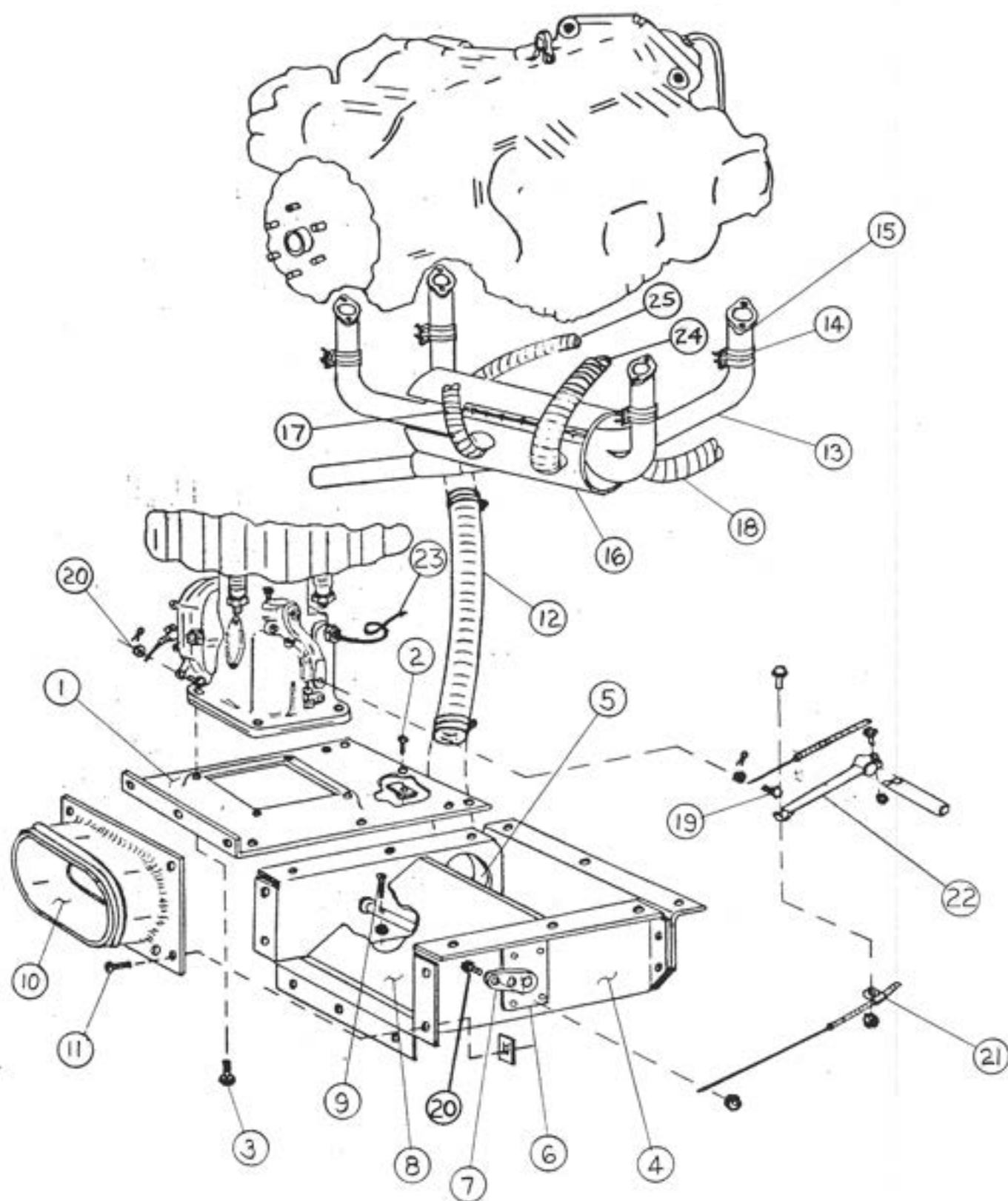


FIGURE 45

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



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



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
45-21	*	INJECTOR HEAT AND MIXTURE CONTROL ATTACHMENT 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 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

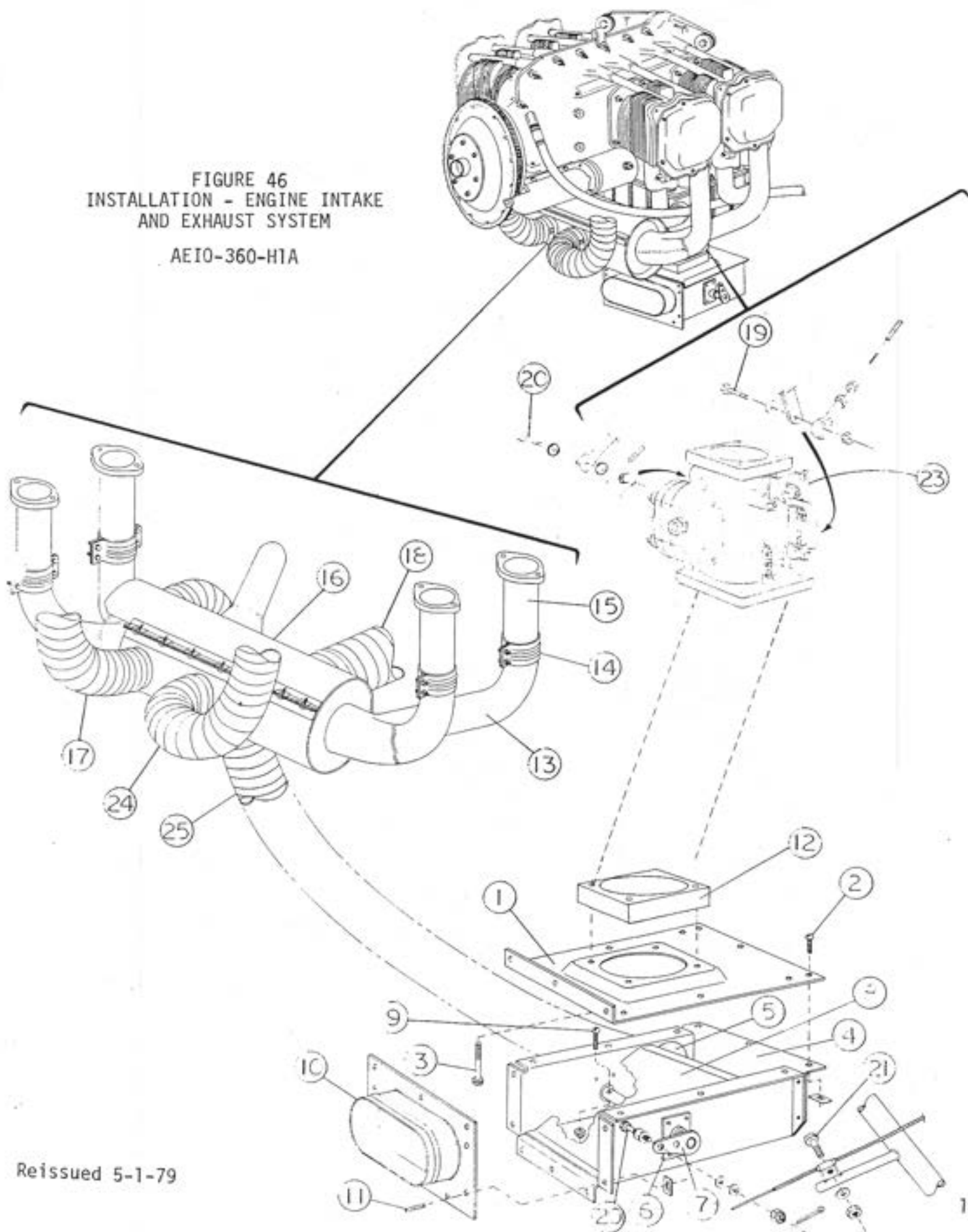


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
46-	4-1637 7-1413 7-1483-1	DRAWING - ASSEMBLY INJECTOR AIR BOX DRAWING - INSTALLATION ENGINE DRAWING - EXHAUST SYSTEM	
1	3-1544	AIR BOX COVER	1
2	AN515-8-5 C420-832-1	SCREW (COVER ATTACHMENT) NUT	12 12
3	AN74A-3	BOLT (AIR BOX ATTACHMENT)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



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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 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 FUEL PUMP	1
*NOTE: PARTS NOT SHOWN.			

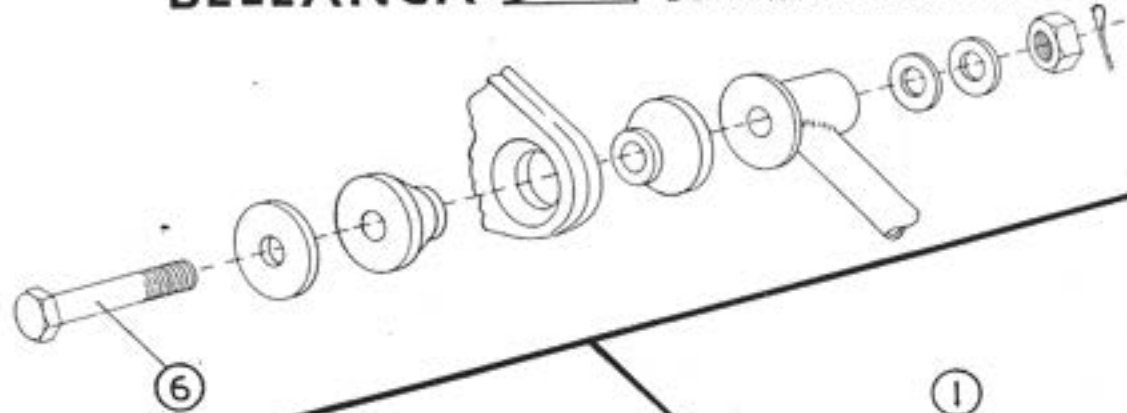


FIGURE 47
INSTALLATION - ENGINE MOUNT
APPLICABLE EARLY
(150 HP) MODELS

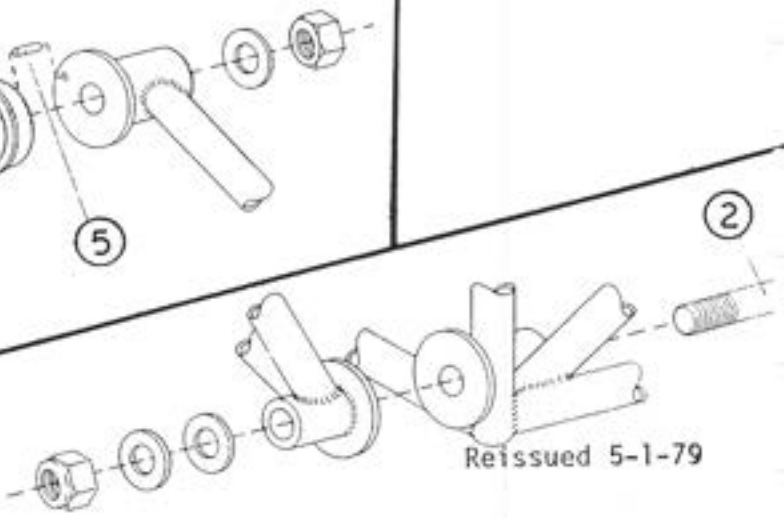
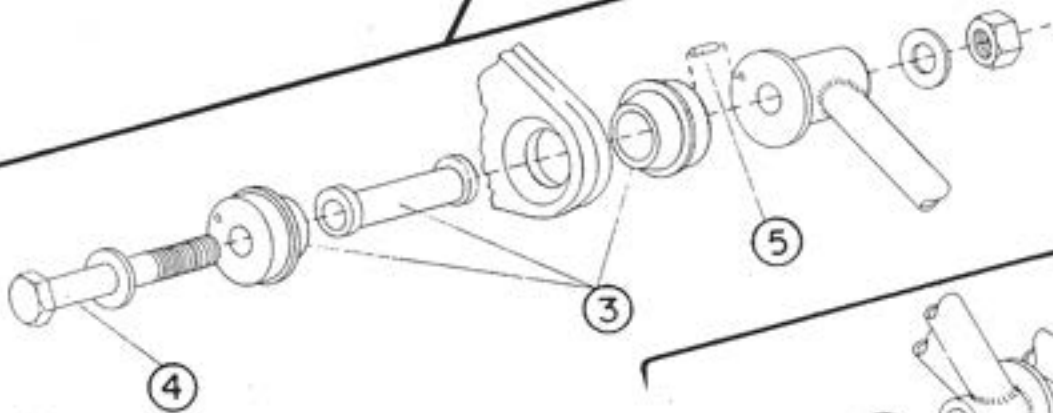
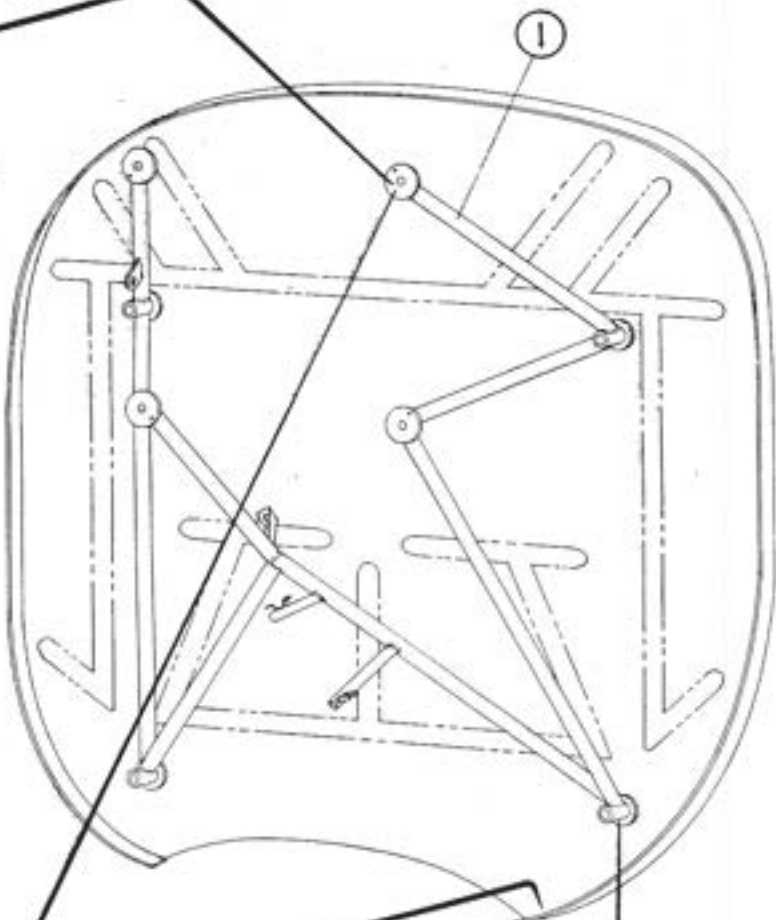




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
47-	7-1413	DRAWING - INSTALLATION - ENGINE MOUNT	
1	4-1033-10	MOUNT	1
2	AN7-32	BOLT	4
	AN365-720	NUT	4
	AN960-716	WASHER	4
3	J-6230-1	BUSHING KIT (LORD)	4
4	AN8-44	BOLT	4
	AN365-820	NUT	4
	AN960-816	WASHER	8
5	MS9048-096	ROLL PIN	4
6	AN8-42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

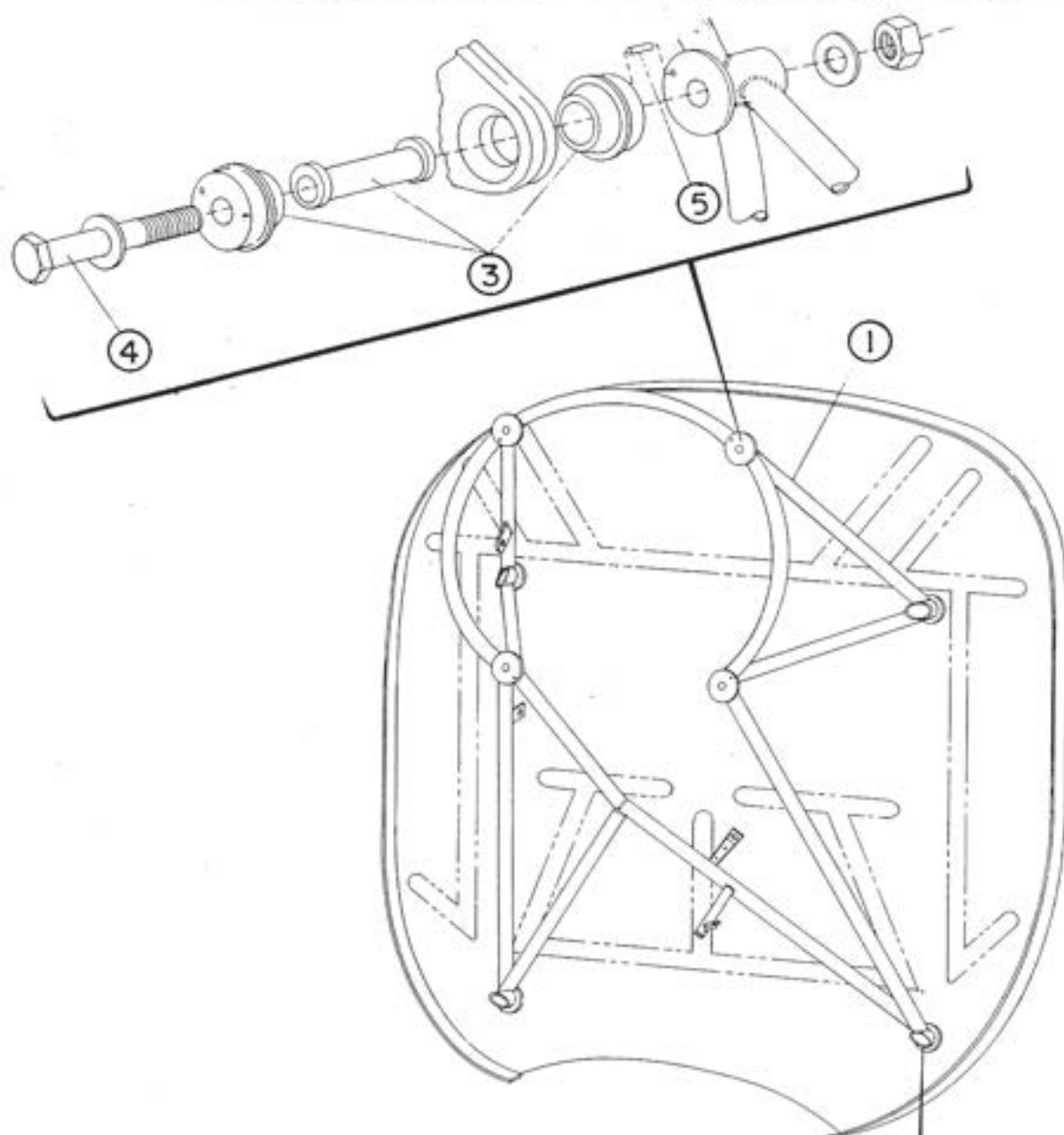
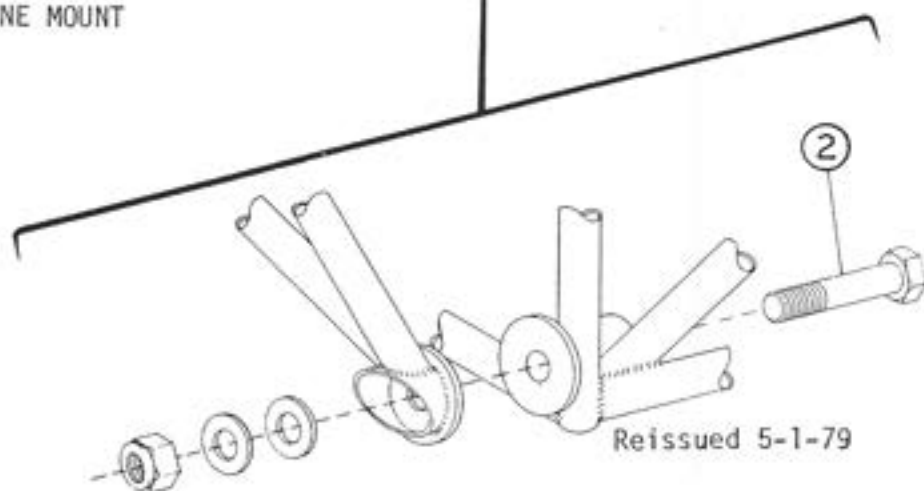


FIGURE 48
INSTALLATION - ENGINE MOUNT
LATER MODELS



Reissued 5-1-79



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
48-	7-1413 7-1502 7-1523	DRAWING - INSTALLATION - ENGINE MOUNT DRAWING - INSTALLATION - ENGINE MOUNT 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

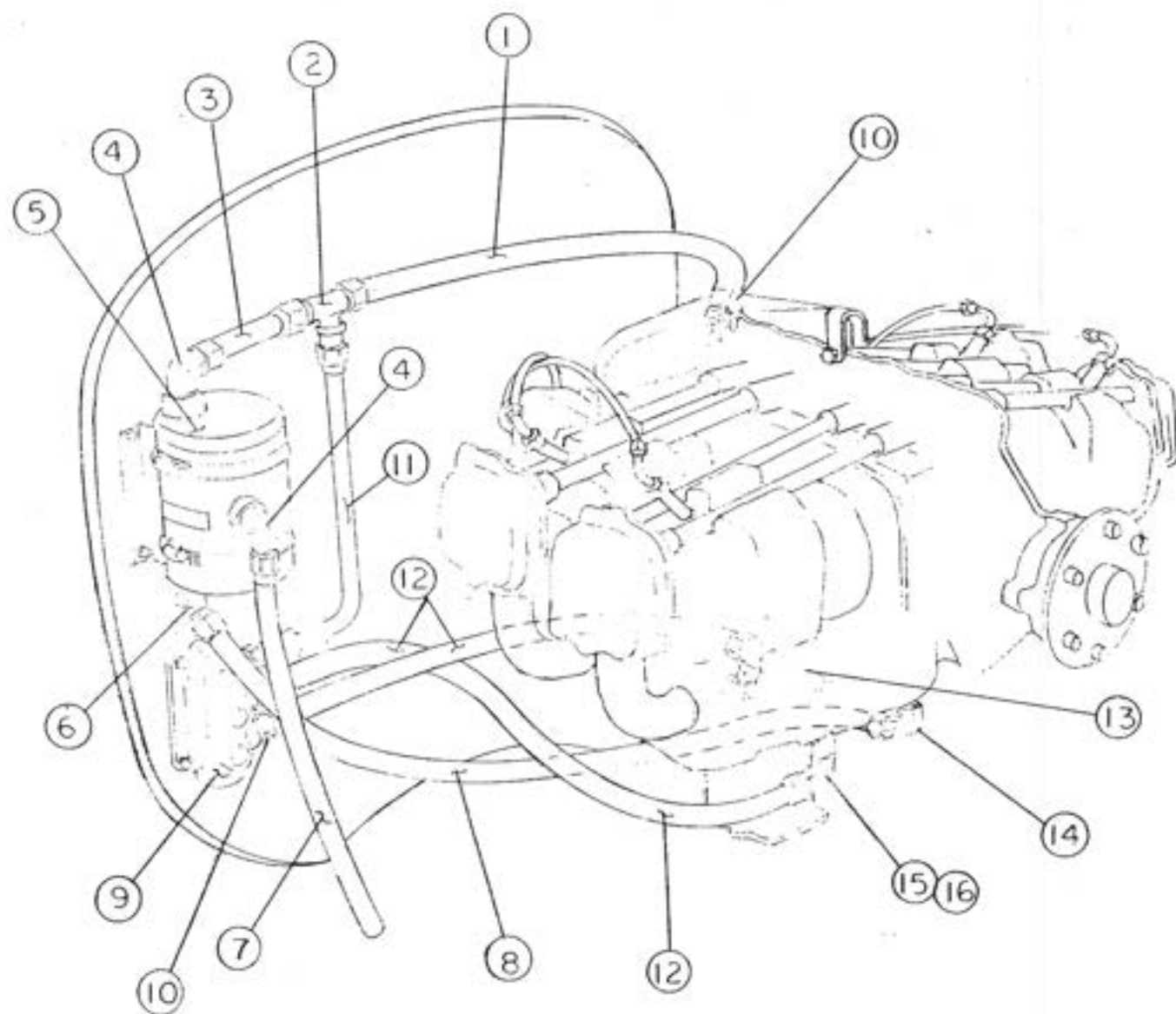


FIGURE 49
INSTALLATION - LYCOMING CHRISTEN
OIL SYSTEM
AE10-320-E1B



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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
<u>NOTE:</u> 8KCAB EQUIPPED WITH LYCOMING CHRISTEN OIL SYSTEM S/N 175 AND UP.			

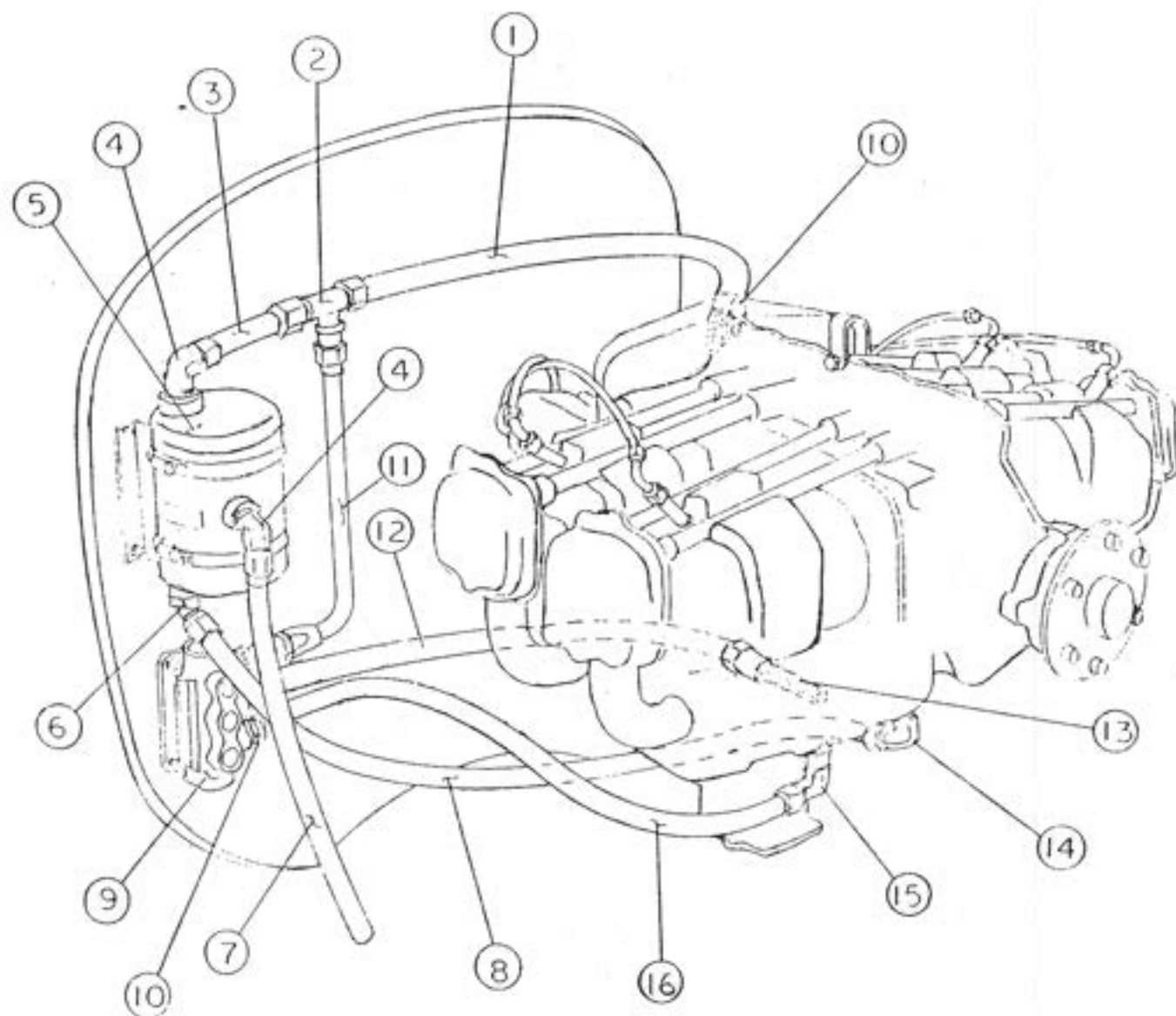


FIGURE 50
INSTALLATION - LYCOMING CHRISTEN
OIL SYSTEM
AEIO-360-H1A



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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

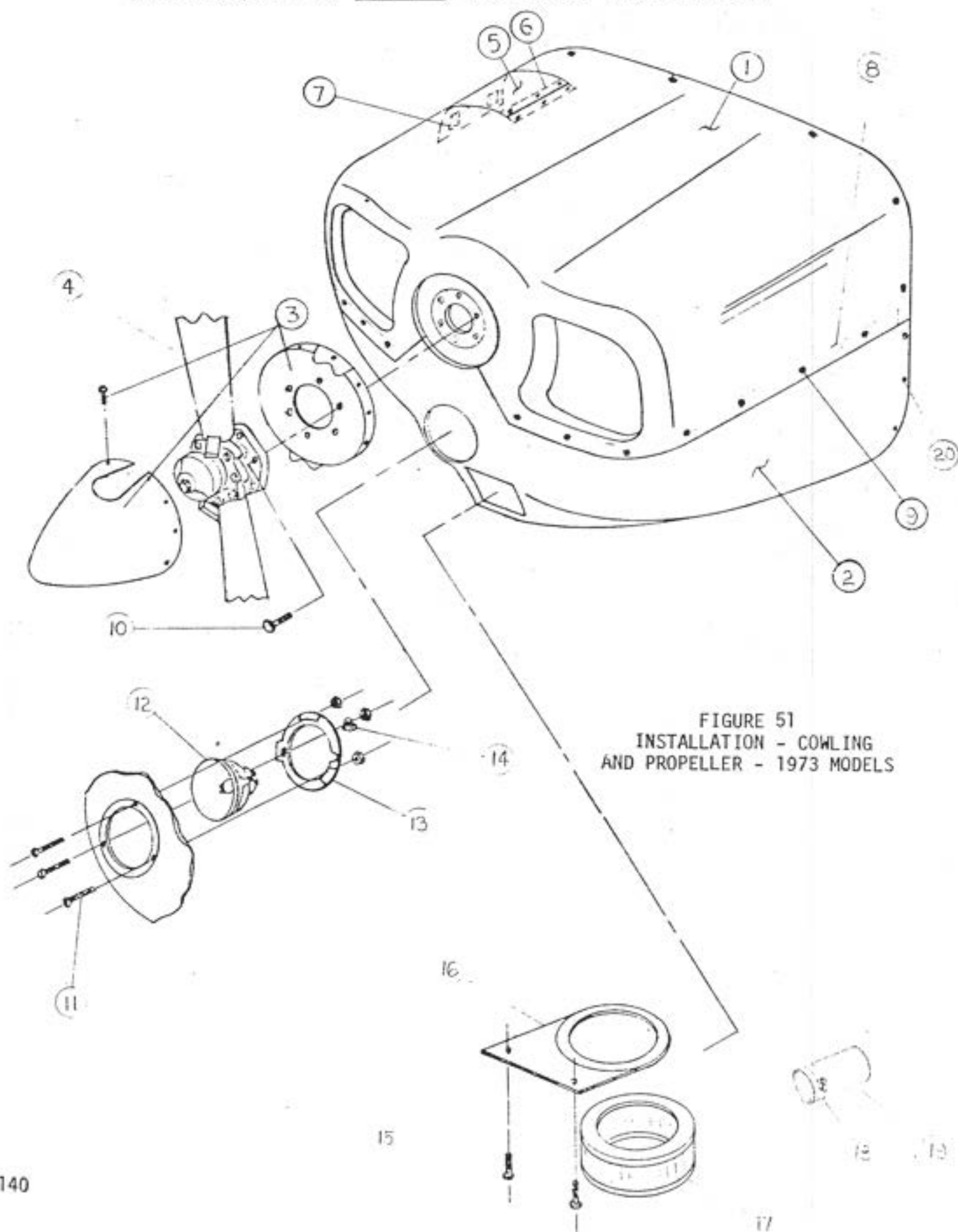




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
51-	4-1620 7-1417	DRAWING - INSTALLATION AND ASSEMBLY ENGINE COWL DRAWING - INSTALLATION - CONSTANT SPEED PROP (HARTZELL)	
1	7-1455-1	UPPER COWL	1
2	7-1455-3	LOWER COWL	1
3	836-52	SPINNER ASSEMBLY (HARTZELL)	1
	C-2495	SPINNER DOME	1
	AN526C1032R7	SCREWS - DOME	14
	C-2469	BULKHEAD UNIT	1
4	HC-C2YL-4/ C7663-4	PROPELLER (HARTZELL)	1
5	3-1532	ACCESS DOOR	1
6	AN257-4-700	HINGE	1
7	H5000-2-081- 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

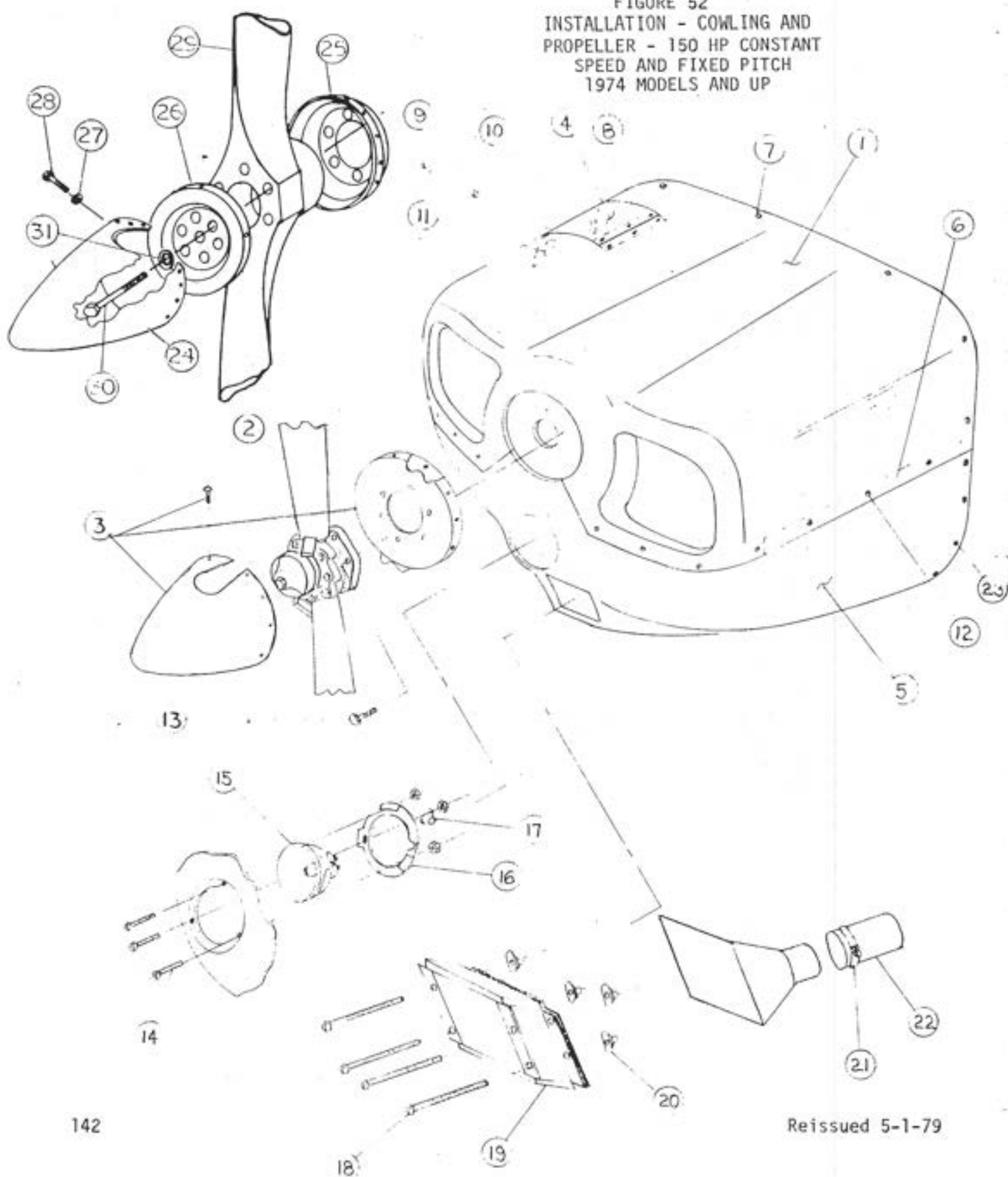




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
52-	3-7397 7-1475 7-1509	DRAWING - INSTALLATION SPINNER FIXED PITCH DRAWING - INSTALLATION AND ASSEMBLY - COWL DRAWING - INSTALLATION - CONSTANT SPEED PROP	
1	7-1469-1	UPPER COWL	1
2	HC-C2YL-4BF/ FC7663-4	PROPELLER (HARTZELL) CONSTANT SPEED	1
3	836-52 C-2495 AN526C1032R7 C-2469	SPINNER ASSEMBLY (HARTZELL) CONSTANT SPEED SPINNER DOME SCREWS - DOME BULKHEAD UNIT	1 1 14 1
4	3-1561	ACCESS DOOR	1
5	7-1469-2	LOWER COWL	1
6	2-1889	ANGLE	1
7	85-11-140-16 85-34-101-17 85-47-101-15	STUD RETAINER RING RECEPTACLE	2 6 6
8	AN275-4-650	HINGE	6
9	LP22T82S8	SCREW	1
10	S8	RIVNUT	1
11	H5000-2-081- 188	LOCK	2
12	85-11-240-16 85-34-101-17 85-47-101-15	STUD RETAINER RING RECEPTACLE	14 14 14
13	A-2476-4 A-2246-4 A-2433 AN960-616	KIT - SPINNER MOUNTING (CONSTANT SPEED) SPACER BOLT WASHER	1 6 6 A/R
14	AN526-832-12 AN365-832	SCREW NUT	3 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 AN960-10L	SCREW WASHER	10 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 AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER 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)		

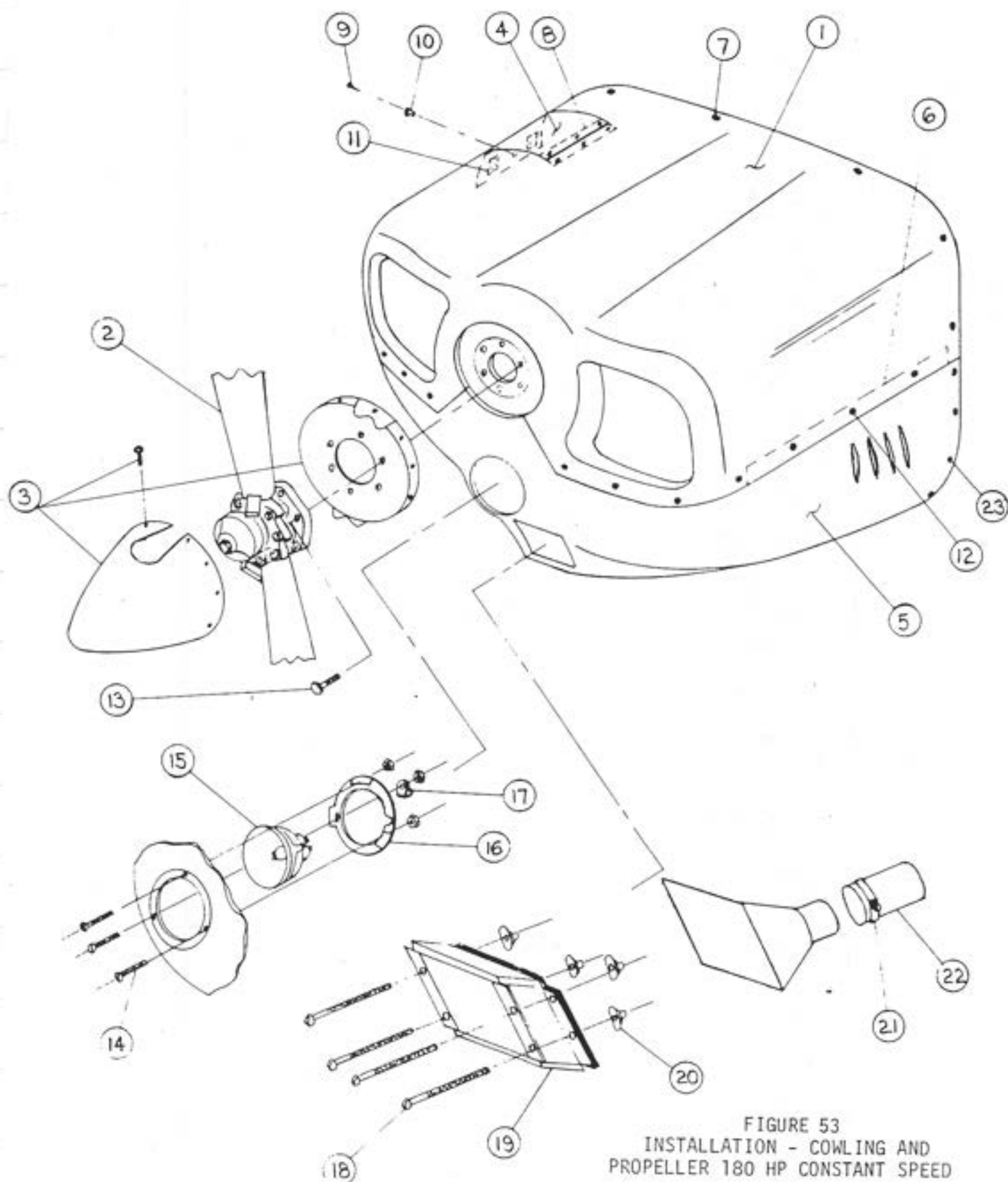


FIGURE 53
INSTALLATION - COWLING AND
PROPELLER 180 HP CONSTANT SPEED



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASS'Y
53-	7-1509 7-1517	DRAWING - INSTALLATION CONSTANT SPEED PROPELLER DRAWING - INSTALLATION AND COWL ASSEMBLY	
1	7-1482-1	UPPER COWLING	1
2	HC-C2YR-4CF/ 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.		