

Bellanca Viking 300

ILLUSTRATED PARTS CATALOG

MODELS 17-30A

17-31A

17-31ATC

(EFFECTIVE SERIAL NUMBERS 75- AND UP)



AIRCRAFT CORPORATION

ALEXANDRIA, MINNESOTA 56308

BELLANCA **Illustrated Parts Catalog**

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INTRODUCTION

This Parts Catalog is designed to provide identification of replacement parts for the Models 17-30A, 17-31A and 17-31ATC. The catalog is limited to aircraft having serial numbers with the prefix of 75-. Exceptions to this serialization will be noted in the parts lists.

The illustrations and parts lists are arranged in a manner which provides easy identification of the parts. The parts list column headings are explained as follows.

1. FIGURE AND INDEX NO. lists the figure number of the illustration and itemizes each part with an index number.
2. PART NUMBER is the identifying number for a particular part in the illustration.
3. DESCRIPTION is the functional name of the part.
4. UNITS PER ASSY. is the number of parts required per assembly. The total number of parts per airplane will depend on the number of assemblies required.
5. CODE is used to indicate the models affected and provide additional information by referring to notes given at the bottom of the page. The letters A, B and C are used throughout the entire manual to indicate the specific model that the itemized part is installed on. The model designations are as follows:

A - Model 17-30A
B - Model 17-31A
C - Model 17-31ATC

When one or two letters are used, the part is installed only on the model or models indicated. However, when the part is used on all three models, the CODE column is blank. The letter D and successive letters of the alphabet are used to indicate special notes at the bottom of the page for the particular part shown.

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A system of indentation is used in the DESCRIPTION column to decrease the number of parts listed on an order whenever possible. Following is an example with an explanation.

<u>EXAMPLE</u>		
PART NUMBER	DESCRIPTION	UNITS PER ASSY.
191913-10	Fuel Selector Valve Assembly	1
191911-10	Selector Valve Assembly	1
191886-10	Selector Valve Assembly	1
191905-0	Arm Assembly	1
191177	Pin	1
191923-0	Handle Assembly	1

If the 191913-10 Fuel Selector Valve Assembly (not indented) is ordered, then all items indented below it will be forwarded including the 191923-0 Handle Assembly with the appropriate charges.

If the 191911-10 selector valve Assembly (first indentation) is ordered, then the 191886-10 selector valve Assembly, the 191905-0 Arm Assembly and the 191177 Pin will be forwarded with the appropriate charges.

The 191886-10 selector valve Assembly, 191905-0 Arm Assembly and 191177 Pin may be ordered individually since they are the last indentation.

NOTE

DO NOT USE THIS CATALOG FOR ANY PURPOSE EXCEPT THE
INTENDED USE AS A PARTS REPLACEMENT CATALOG.

Bellanca Aircraft Corporation reserves the right to change or cancel the parts, assemblies, parts lists and parts illustrations without notice.

LOG OF REVISIONS

REV. NO.	REVISED PAGES	REVISION ENTRY	
		DATE	SIGNATURE
1	Deleted Figures 53, 61 and 93. Deleted Parts Lists for Figures 53, 61 and 93. Added Figures 53.1, 53.2, 53.3, 53.4, 57.1, 57.2, 61.1, 61.2, 65.3, 93.1, 93.2 and 93.3. Added Parts Lists for Figures 53.1, 53.2, 53.3, 53.4, 57.1, 57.2, 61.1, 61.2, 65.3, 93.1, 93.2 and 93.3. Revised Figures 28.1, 28.2, 49, 54, and 65.2. Revised Parts Lists for Figures 22, 28.1, 28.2, 46, 49, 54, 65.2, 71, and 92. Revision No. 1 is effective 10/1/75. Insert new revised pages. Destroy superseded pages.		
2	Deleted Figures 11.1, 11.2, 34, 58, 63, 77.2. Deleted Parts Lists for Figures 11.1, 11.2, 34, 58, 63, 77.1 and 77.2. Added Figures 11, 34.1, 34.2, 58.1, 58.2, 58.3, 62.3, 62.4, 63.1, 63.2, 64.1, 64.2, 65.4 and 77. Revised Figures 10.2, 12.3, 30, 33, 56.1, 56.2, 61.1, 62.1, 62.2, 65.1, 65.2, 66.1, 67.1, 74, 76, 78 and 92. Revised Parts Lists for Figures 10.2, 12.3, 30, 31, 33, 56.1, 56.2, 62.1, 62.2, 65.1, 65.2, 65.3, 66.1, 67.1, 74, 76, 78 and 92. Revision No. 2 is effective 5/15/76. Insert new and revised pages. Destroy superseded pages.		

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FIGURE 1. COVERING - FUSELAGE AND VERTICAL TAIL

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	FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
	43-		TRIM TAB CONTROL BOX ASSEMBLY		
	- 1	195571-10	Housing Weldment	1	
	- 2	195569	Indicator Screw	1	
	- 3	195716-0	Indicator	1	
	- 4	3/8-16	Nut - Slotted	1	
		195678-0	Nut (Alternate for 3/8-16)	1	
	- 5	31-S-078-0500	Pin - Spring	4	
	- 6	5100-50	Ring - Retaining	3	
	- 7	H2420R	Gear	2	
	- 8	195564	Sleeve, Gear	1	
	- 9	195563	Key	2	
	-10	195573	Collar	1	
	-11	195561-2	Shaft	1	
	-12	195570	Bearing	2	
	-13	195565	Sleeve, Gear	1	
	-14	195657	Cover	1	
	-15	AN530-4-4	Screw	2	

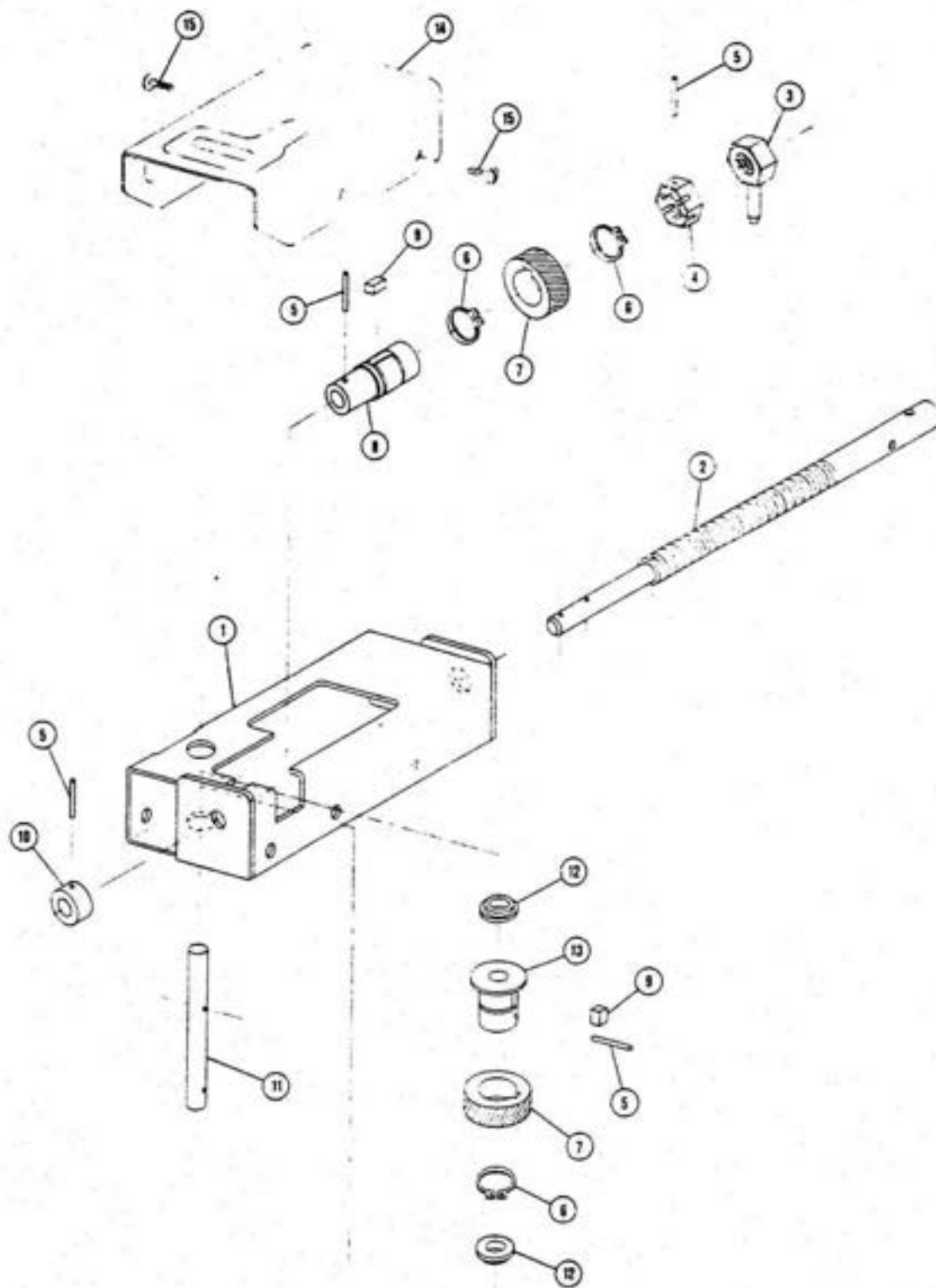


FIGURE 43. TRIM TAB CONTROL BOX ASSEMBLY

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	FIGURE AND INDEX NO	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
	42-				
	-53	AN960-8	Washer	2	
	-54	MS20365-832	Nut	2	
	-55	195715-0	Pillow Block Assembly	1	
	-56	195628	Universal	1	

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
42-				
-27	AN960-10	Washer	4	
-28	MS20365-1032	Nut	2	
-29	AN23-14	Bolt, Clevis	1	
-30	AN320-3	Nut	1	
-31	AN380-2-2	Cotter Pin	1	
-32	195680	Connecting Arm	1	
-33	195707-10	Actuator Assembly	1	
-34	195713-1	Control Rod	1	
-35	198001-2	Bearing, Rod End	1	
-36	AN316-5R	Nut	1	
-37	AN4-10A	Bolt	1	
-38	AN960-416L	Washer	2	
-39	AN960-416	Washer	1	
-40	MS20365-428	Nut	1	
-41	AN520-10R14	Screw	1	
-42	AN960-10	Washer	1	
-43	MS20365-1032	Nut	1	
-44	AN742-D6	Clamp	1	
-45	AN520-10R10	Screw	1	D
-46	AN960-10	Washer	1	D
-47	MS20365-1032	Nut	1	D
-48	AN742-D6	Clamp	1	D
-49	AN21-10A	Bolt	2	
-50	AN960-6	Washer	4	
-51	MS20365-640	Nut	2	
-52	AN515-8R10	Screw	2	
CONTINUED ON NEXT PAGE				
D - This item typical two places as shown.				



FIGURE AND INDEX No.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
42-		ELEVATOR TRIM TAB CONTROL SYSTEM AND INSTALLATION		
	195705	Installation - Trim System	-	
- 1	195586-10	Control Box Assembly	1	
- 2	U195717-0	Indicator Plate	1	
- 3	195632-0	Handle Assembly	1	
- 4	MS16562-18	Spring Pin	1	
- 5	AN3-24A	Bolt	2	
- 6	AN960-10	Washer	8	
- 7	MS20365-1032	Nut	2	
- 8	AN21-10A	Bolt, Clevis	1	
- 9	AN960-6	Washer	2	
-10	MS20365-640	Nut	1	
-11	195625-1	Housing	1	
-12	195624-1	Control Rod	1	
-13	195626	Coupling	1	
-14	195712-1	Control Rod	1	
-15	195714-1	Housing	1	
-16	AN742-D6	Clamp	1	
-17	AN520-10R10	Screw	1	
-18	AN960-10	Washer	1	
-19	MS20365-1032	Nut	1	
-20	AN21-10A	Bolt, Clevis	2	
-21	AN960-6	Washer	4	
-22	MS20365-640	Nut	2	
-23	AN21-10A	Bolt	1	
-24	AN960-6	Washer	2	
-25	MS20365-640	Nut	1	
-26	AN3-10A	Bolt	2	
		CONTINUED ON NEXT PAGE		

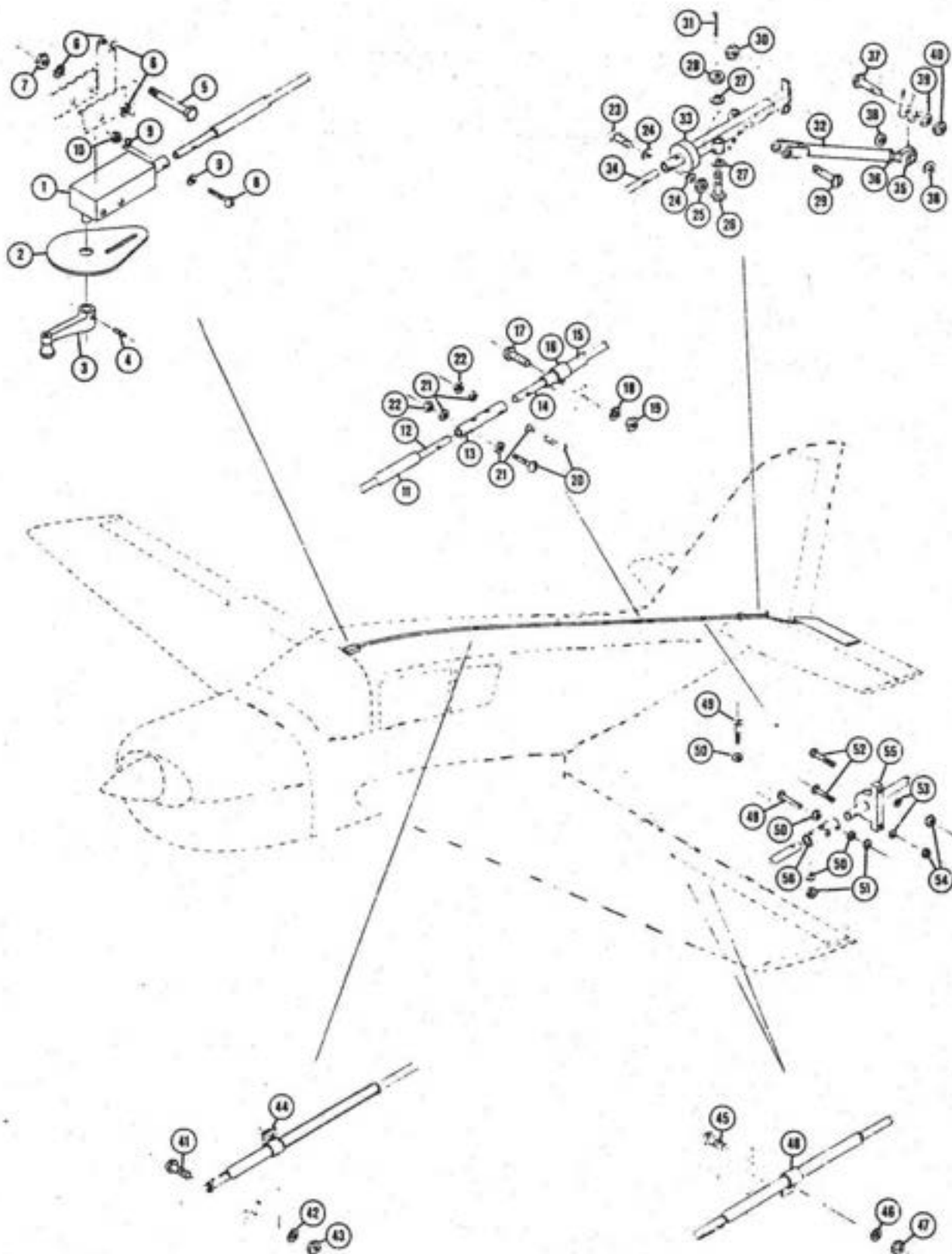


FIGURE 42.

ELEVATOR TRIM TAB CONTROL SYSTEM AND INSTALLATION



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
41.2-		LEFT ELEVATOR ASSEMBLY		
	193105-10	Elevator Assembly	1	
- 1	193105-1	Torque Tube	1	
- 2	198005-1	Hinge	2	
- 3	193105-3	End Rib	1	
- 4	193105-4	Trailing Edge Tube	1	
- 5	193105-5	Rib	1	
- 6	193105-6	Rib	1	
- 7	193105-7	Rib	1	
- 8	198006-1	Pin	1	
- 9	193105-19	Rib	4	
-10	193105-18	False Spar	1	
-11	193110	Hinge - Tab	1	
-12	193105-21	End Rib	2	
	193105-26	Gusset	1	D
-13	193105-15	End Plate	1	
-14	193105-14	Attachment Fitting	2	
-15	193105-23	Reinforcement	1	
-16	193129	Trim Tab Assembly	1	
-17	193128	Actuating Bracket	1	
-18	193139	Shim	A/R	
-19	AN520-10-8	Screw	3	
-20	AN960-10L	Washer	6	
-21	MS20365-1032	Nut	3	
-22	AN23-22A	Clevis Bolt	1	
-23	AN960-10L	Washer	1	
-24	AN960-10	Washer	1	
-25	198004-141	Bushing	1	
-26	195516-0	Bearing Support	1	
		D - This part is not shown in the illustration.		

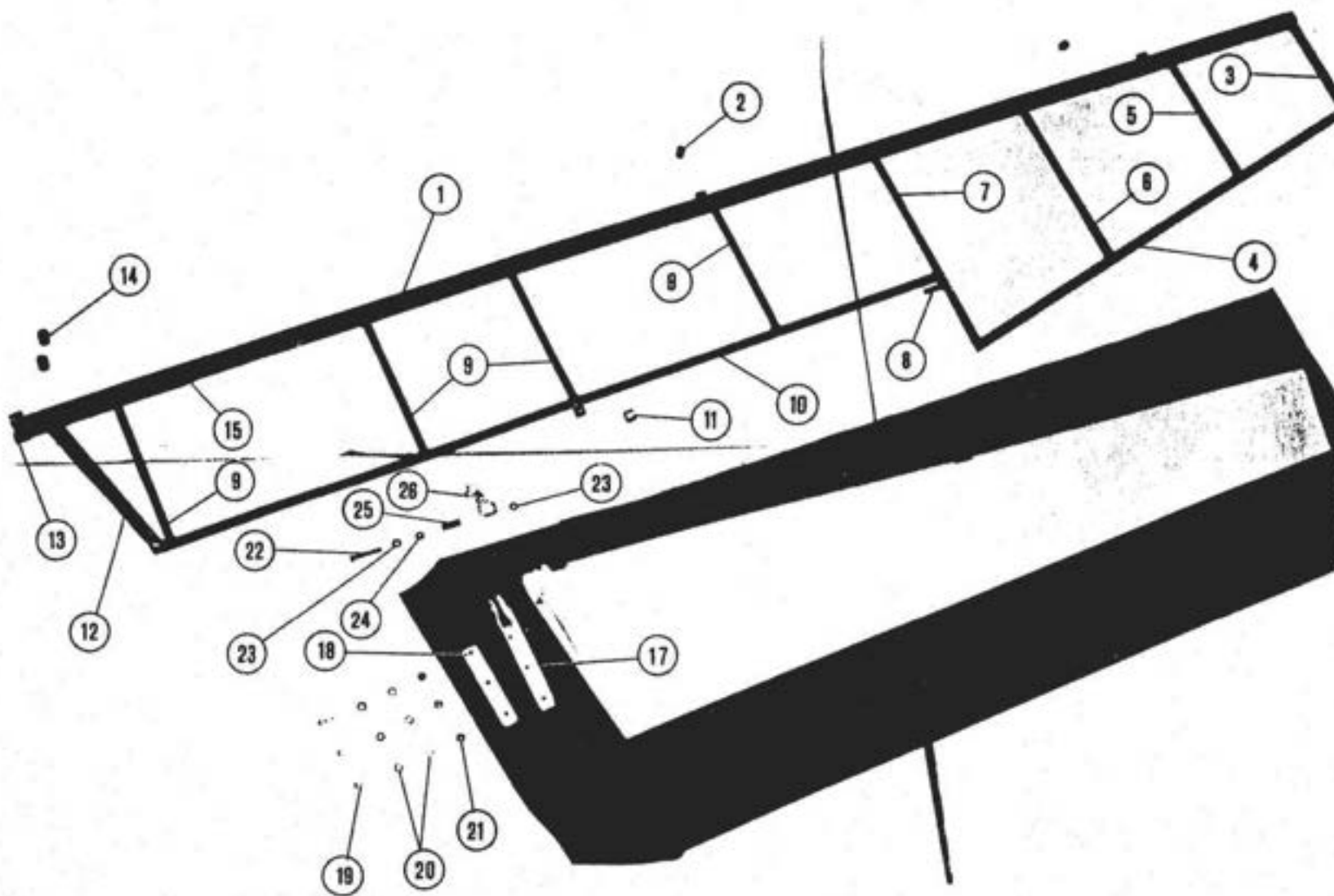


FIGURE 41.2 LEFT ELEVATOR ASSEMBLY

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FIGURE AND INDEX No.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
41.1-		RIGHT ELEVATOR ASSEMBLY		
	193105-20	Elevator Assembly	1	
- 1	193105-1	Torque Tube	1	
- 2	193105-2	Trailing Edge Tube	1	
- 3	193105-3	End Rib	1	
- 4	193105-5	Rib	1	
- 5	193105-6	Rib	1	
- 6	193105-7	Rib	1	
- 7	193105-8	Rib	1	
- 8	193105-9	Rib	1	
- 9	193105-11	Rib	1	
-10	193105-12	Rib	1	
-11	193105-13	Rib - Inboard	2	
	193105-22	Spacer	1	D
-12	193105-15	End Plate	1	
-13	193105-14	Attachment Fitting	2	
-14	198005-1	Hinge	2	
-15	193105-23	Reinforcement Plate		
D - This part is not shown in the illustration.				

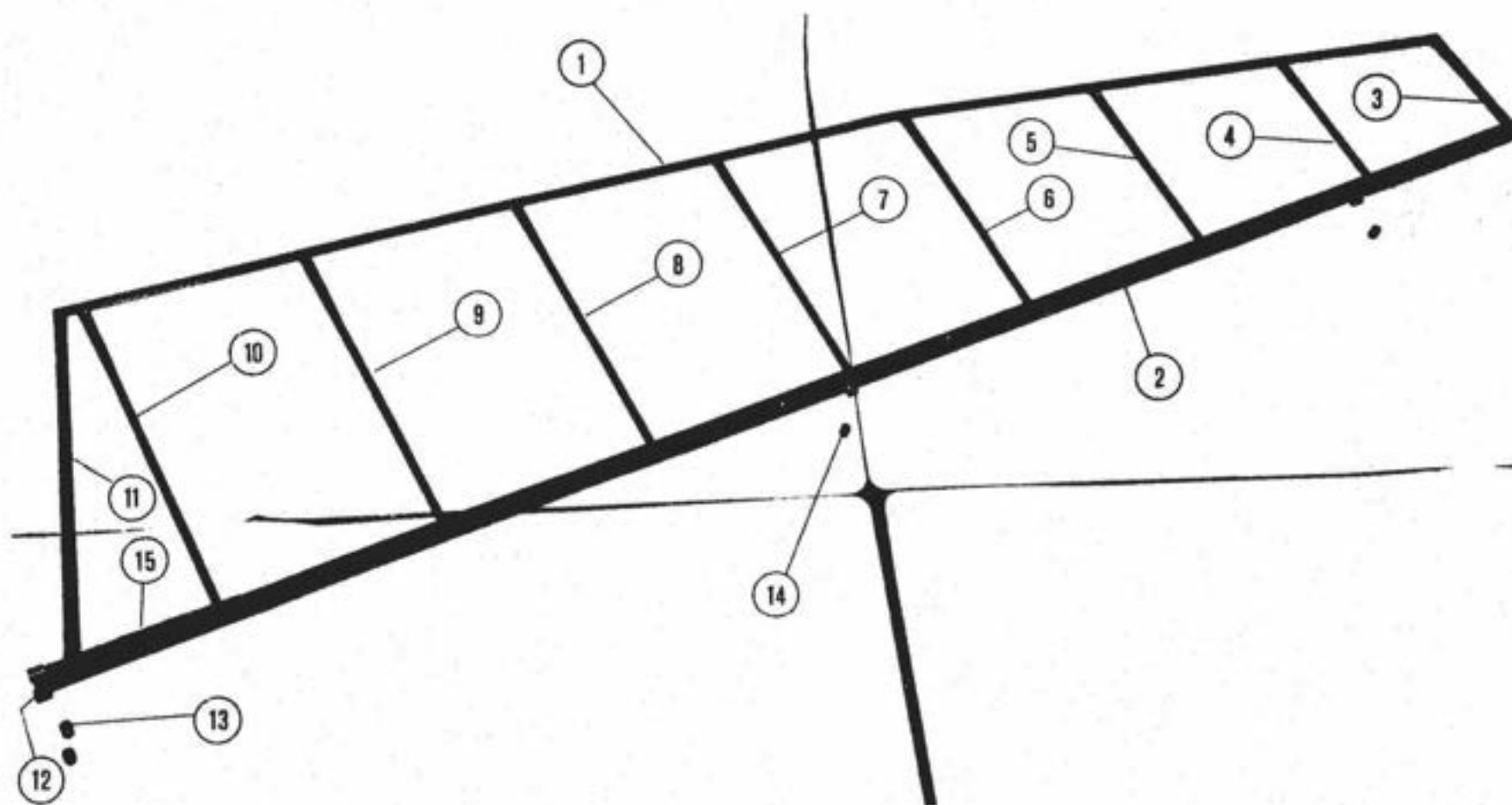


FIGURE 41.1 RIGHT ELEVATOR ASSEMBLY

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FIGURE AND INDEX NO.	' PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
40-				
-28	AN310-3	Nut	1	
-29	AN380-2-2	Cotter Pin	1	
-30	195525	Spring	1	
-31	195523-1	Clip	1	
-32	MS21919-DF12	Clamp	1	
-33	AN520-10-10	Screw	1	
-34	AN960-10	Washer	2	
-35	MS20365-1032	Nut	1	
-36	198004-85	Bushing	1	
-37	AN380-3-2	Cotter Pin	1	



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
40-		ELEVATOR BALANCE AND BUNGEE INSTALLATION		
- 1	193107-10	Balance Assembly	1	
- 2	193107-5	Weight	1	
- 3	193112	Shim	A/R	
- 4	AN3-15A	Bolt	3	
- 5	AN960-10	Washer	3	
- 6	MS20365-1032	Nut	3	
- 7	AN4-15A	Bolt	2	
- 8	AN960-416	Washer	4	
- 9	MS20365-428'	Nut	2	
-10	195523-20	Cable Assembly	1	
-11	195523-0	Cable Assembly	1	
-12	MS21251B3L	Turnbuckle	1	
-13	MS21254-3RL	Eye End	1	
-14	195524	Spring	1	
-15	MS24566-2B	Pulley	1	
-16	195369-10	Pulley Guard	1	
-17	AN3-6	Bolt	1	
-18	AN960-10	Washer	1	
-19	AN960-10L	Washer	1	
-20	AN310-3	Nut	1	
-21	AN380-2-2	Cotter Pin	1	
-22	AN3-6	Bolt	1	
-23	AN960-10L	Washer	1	
-24	AN310-3	Nut	1	
-25	AN380-2-2	Cotter Pin	1	
-26	AN23-13	Bolt, Clevis	1	
-27	AN960-10L	Washer	1	
		CONTINUED ON NEXT PAGE		

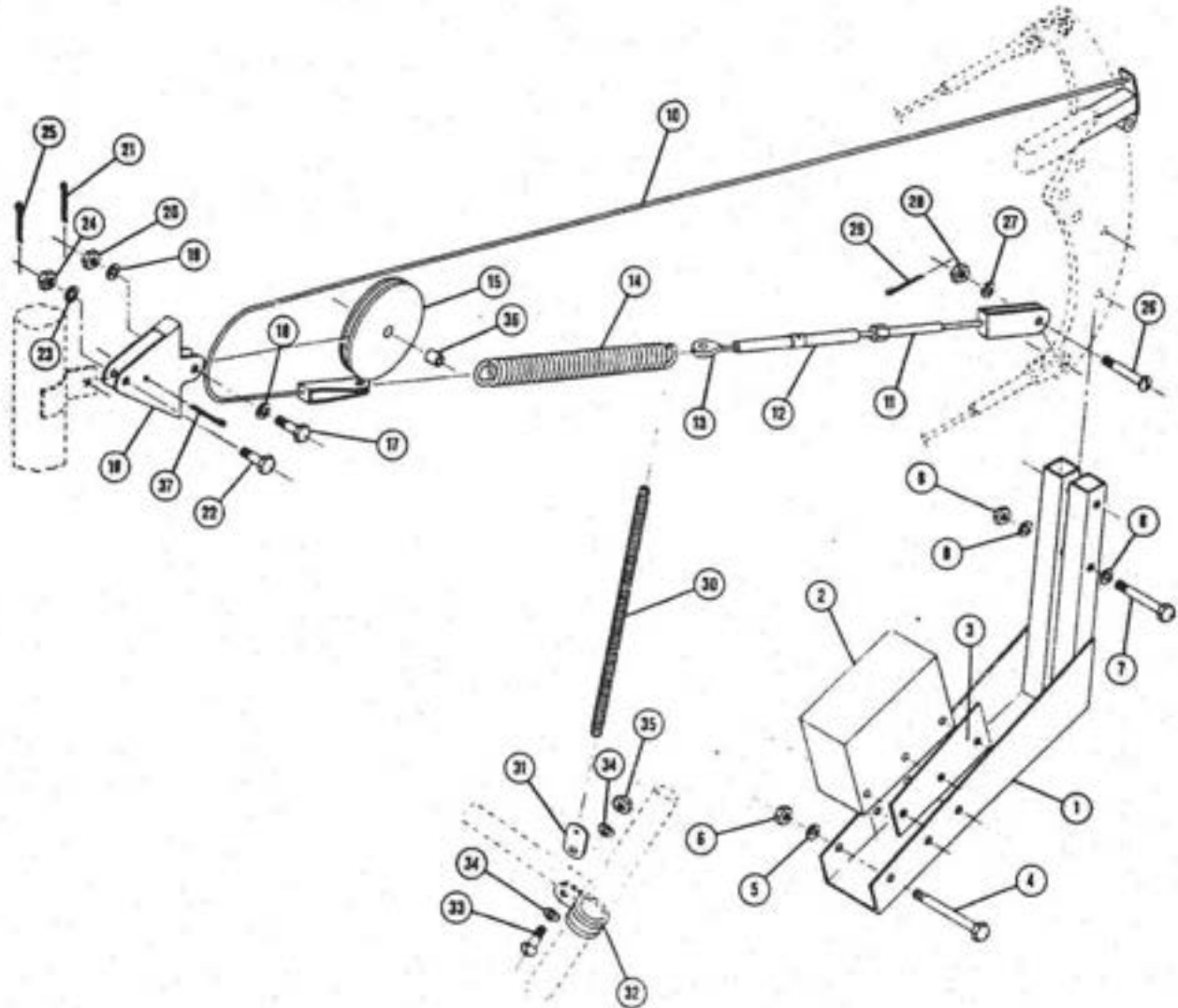


FIGURE 40. ELEVATOR BALANCE AND BUNGEE INSTALLATION

FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
39-				
-25	AN3-5	Bolt	1	
-26	195379	Nut	1	
-27	AN380-2-2	Cotter Pin		
-28	AN3-4	Bolt	1	
-29	195379	Nut	1	
-30	AN380-2-2	Cotter Pin	1	
-31	AN4-10	Bolt	2	
-32	AN960-416	Washer	4	
-33	AN310-4	Nut	2	
-34	AN380-2-2	Cotter Pin	2	
-35	195621	Link	2	
-36	196715-2	Bolt	2	
-37	AN316-4	Nut	2	
-38	AN23-11	Bolt, Clevis	1	
-39	AN960-10	Washer	1	
-40	AN310-3	Nut	1	
-41	MS24665-132	Cotter Pin	1	
-42	AN24-11	Bolt, Clevis	1	
-43	AN960-416	Washer	1	
-44	AN310-4	Nut	1	
-45	MS24665-132	Cotter Pin	1	



FIGURE AND INDEX No.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
39-		ELEVATOR CONTROL SYSTEM INSTALLATION		
- 1	195174	Cable Assembly	1	
- 2	195622-10	Cable Assembly	1	
- 3	198004-23	Bushing	1	
- 4	AN23-11	Bolt,	1	
- 5	AN960-10	Washer	1	
- 6	AN310-3	Nut	1	
- 7	MS24665-132	Cotter Pin	1	
- 8	198004-23	Bushing	1	
- 9	AN23-11	Bolt, Clevis	1	
-10	AN960-10	Washer	1	
-11	AN310-3	Nut	1	
-12	MS24665-132	Cotter Pin	1	
-13	MS24566-3B	Pulley	1	E
-14	195376	Guard, Pulley	1	E
-15	AN3-4	Bolt	1	E
-16	195379	Nut	1	E
-17	AN380-2-2	Cotter Pin	1	E
-18	AN4-10	Bolt	1	E
-19	AN960-416	Washer	2	E
-20	AN310-4	Nut	1	E
-21	AN380-2-2	Cotter Pin	1	E
-22	40071-00	Fairless	2	D
-23	MS24566-3B	Pulley	2	
-24	195376	Guard, Pulley	2	
CONTINUED ON NEXT PAGE				
D - This item typical two locations as shown				
E - This item typical four locations as shown.				

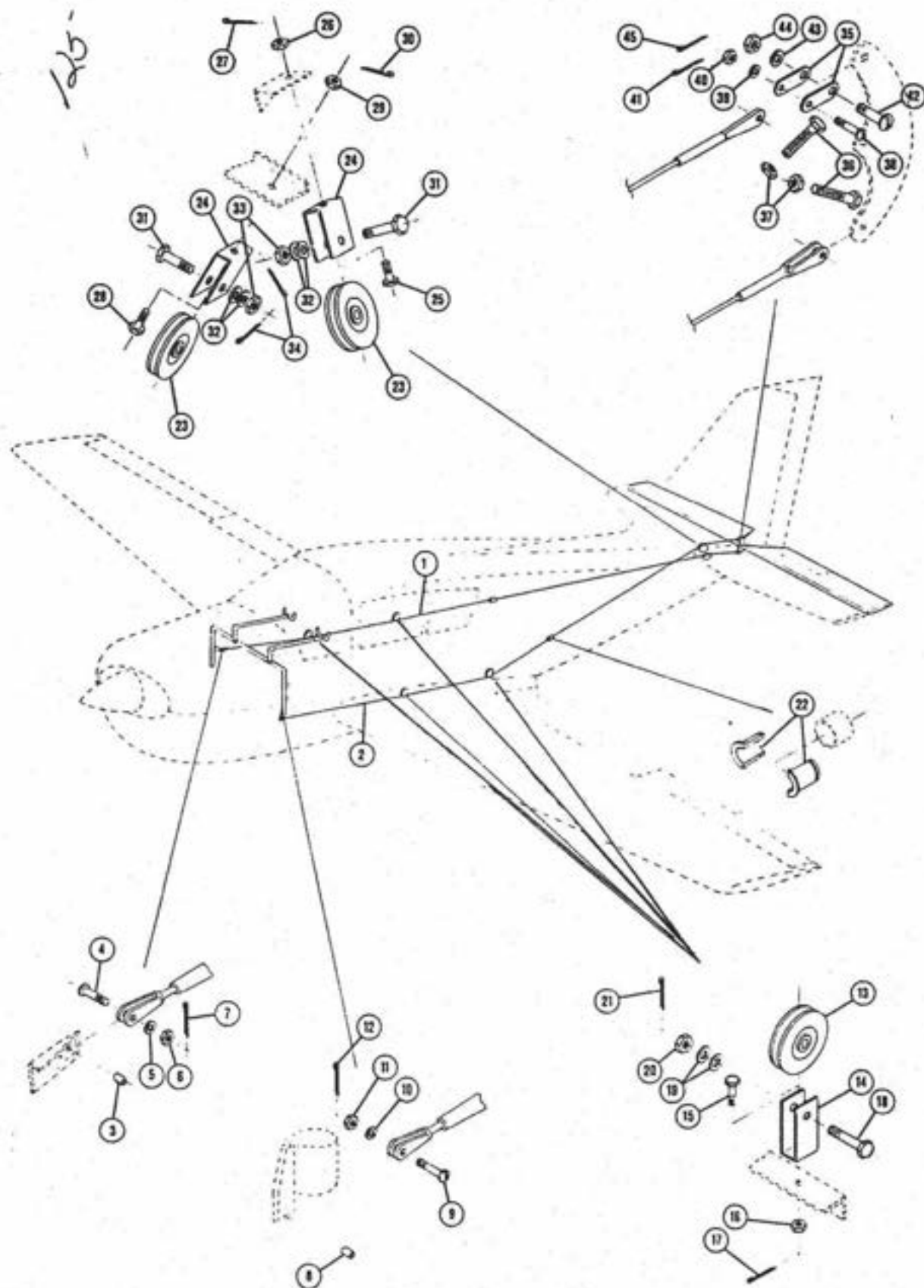


FIGURE 39. ELEVATOR CONTROL SYSTEM INSTALLATION

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FIGURE INDEX	PART NUMRER	DESCRIPTION	UNITS PER ASST.	CODE
38.3-				
-28	AN320-3	Nut	1	
-29	AN380-2-2	Cotter Pin	1	
-30	192518-2	Cover - Aileron Hinge	1	
-31	4 x 3/8	Screw P.K.	4	
-32	192132	Arm Assembly - Aileron, Outboard	1	
-33	AN3-15A	Bolt	4	
-34	AN970-3	Washer	4	
-35	AN960-D1OL	Washer	A/R	
-36	AN960-D1 0	Washer	A/R	
-37	AN365-1032	Nut	4	
-38	AN23-13	Bolt	1	
-39	192139	Spacer	1	
-40	AN960-10	Washer	1	
-41	AN320-3	Nut	1	
-42	AN380-2-2	Cotter Pin	1	
-43	192518-3	Cover - Aileron Hinge	1	
-44	4 x 3/8	Screw P.K.	4	
-45	19701	Tab - Aileron	1	D
-46	AN526--9	Screw	3	D
-47	AN364-632	Nut	3	D
D - Install on left aileron only.				



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
38.3		AILERON HARDWARE		
- 1	192124	Arm Assembly - Aileron and Flap		
- 2	AN3-24A	Bolt	4	
- 3	AN970-3	Washer	4	
- 4	AN960-D1OL	Washer	A/R	
- 5	AN960-D10	Washer	A/R	
- 6	AN365-1032	Nut	A/R	
- 7	AN23-23	Bolt	1	
- 8	192140	Bushing	1	
- 9	AN970-3	Washer	1	
-10	AN960-10	Washer	1	
-11	AN320-3	Nut	1	
-12	AN380-2-2	Cotter Pin	1	
-13	192518-1	Cover - Aileron	1	
-14	4 x 3/8	Screw - P,K	5	
-15	192135	Arm - Aileron Balance	1	
-16	AN509-10-12	Bolt	1	
-17	AN960-10	Washer	1	
-18	AN365-1032	Nut	1	
-19	192128	Arm Assembly - Aileron, Center	1	
-20	AN3-20A	Bolt	1	
-21	AN970-3	Washer	4	
-22	AN960-D10L	Washer	A/R	
-23	AN960-D10	Washer	A/R	
-24	AN365-1032	Nut	4	
-25	AN23-16	Bolt	1	
-26	192139	Spacer	1	
-27	AN960-10	Washer	1	
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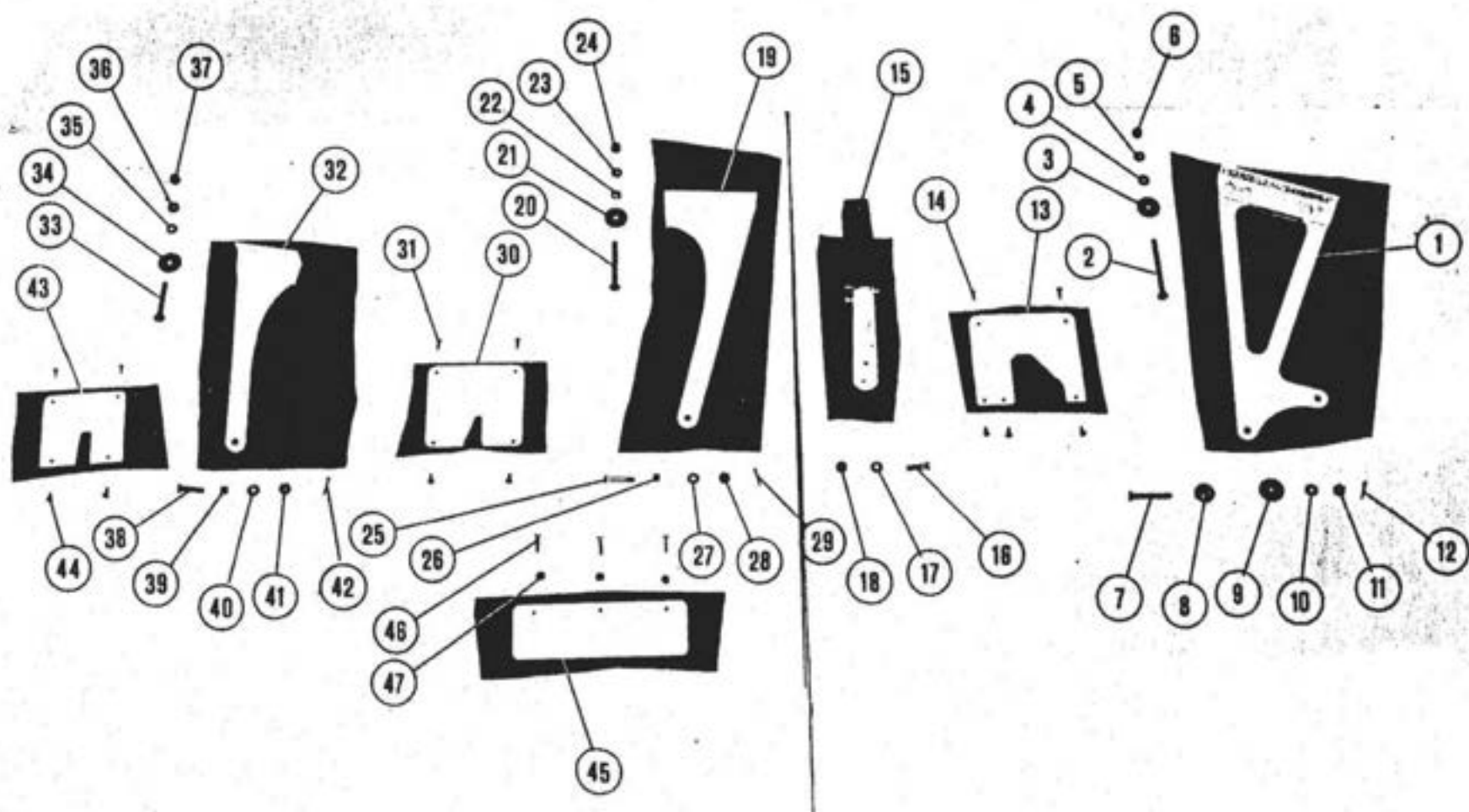


FIGURE 38.3 AILERON HARDWARE

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
38.1-					
38.2-					
-18	192113-3	Rib, Nose, No. 4	1		
-19	192113-4	Rib, Nose, No.	1		
-20	192113-5	Rib, Nose, No. 6	1		
-21	192113-6	Rib, Nose, Intermediate 6A	1		
-22	192113-7	Rib, Nose, No.	1		
-23	192113-8	Rib, Nose, No. 8	1		
-24	192111-2	Brace, Corner	1		
-25	192110	Cap, No. 1 Rib	1		
-26	192164	Attach Bracket, Aileron Actuator	1		
-27	192121-1	Hinge - Half Center (Left Hand)	1		
	192121-2	Hinge - Half Center (Right Hand)	1	D	
-28	192120	Hinge - Half Inboard	1		
-29	AN364-428	Nut	2		
-30	AN365-1032	Nut	8		
-31	192122	Hinge - Half, Outboard	1		
	AN960-10	Washer	8	D	
	AN970-10	Washer	10	D	
	AN970-416	Washer	2	D	
	192111-4	Spacer (For corner brace)	1	D	
	192111-5	Corner Brace Block	1	D	
	AN23-21A	Bolt	8	D	
	AN24-24A	Bolt	2	D	
	AN960-416L	Washer	2	D	
D - This part is not shown in the illustration.					

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
38.1- & 38.2-				
- 8	19218	Rib No, 5	1	
	192108-4	Capstrip - Bottom	1	D
	192107-4	Capstrip - Top	1	D
	192103-4	Gusset	1	D
	192111-6	Filler	1	D
- 9	19219			
	192108-5	Capstrip - Bottom	1	D
	192107-5	Capstrip - Top	1	D
	192103-5	Gusset	1	D
	192111-6	Filler	1	D
-10	19220	Rib No. 7	1	
	192108-6	Capstrip - Bottom	1	D
	192107-6	Capstrip - Top	1	D
	192103-6	Gusset	1	D
	192111-6	Filler	1	D
-11	19221	Rib No. 8	1	
	192106-2	Capstrip	1	D
	192106-4	Capstrip	1	D
	192111-3	Filler	1	D
-12	192112-1	Rib, Nose No	1	
-13	192112-2	Rib, Nose, Intermediate 1A	1	
-14	192112-3	Rib, Nose, Intermediate 1B	1	
-15	192112-4	Rib, Nose, No. 2	1	
-16	192113-1	Rib, Nose, No. 3	1	
-17	192113-2	Rib, Nose, Intermediate 3A	1	
CONTINUED ON NEXT PAGE				
D - This part is not shown in the illustration.				



FIGURE AND INDEX NO..	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
38.1-				
38.2-		AILERON ASSEMBLY		
- 1	192100	Aileron' Assembly, Complete	1L/1R	
- 2	192100-3	Trailing Edge		
- 3	192100-1	Top S k i n	1L/1R	
	192114	Bottom Skin	1	D
- 4	19214	Rib No. 1	1	
	192106-3	Capstrip	1	D
	192109	Filler	1	D
	192106-1	Capstrip	1	D
- 5	19215	Rib No. 2	1	
	192108-1	Capstrip - Bottom	1	D
	192107-1	Capstrip - Top	1	D
	192103-1	G u s s e t	1	D
	192111-6	Filler	1	D
- 6	19216	Rib No. 3	1	
	192108-2	Capstrip - Bottom	1	D
	192107-2	Capstrip - Top	1	D
	192103-2	Gusset	1	D
	192111-6	Filler	1	D
- 7	19217	Rib No. 4	1	
	192108-3	Capstrip - Bottom	1	D
	192107-3	Capstrip - Top	1	D
	192103-3	Gusset	1	D
	192111-6	Filler	1	D
		CONTINUED ON NEXT PAGE		
		- This part is not shown in the illustration.		

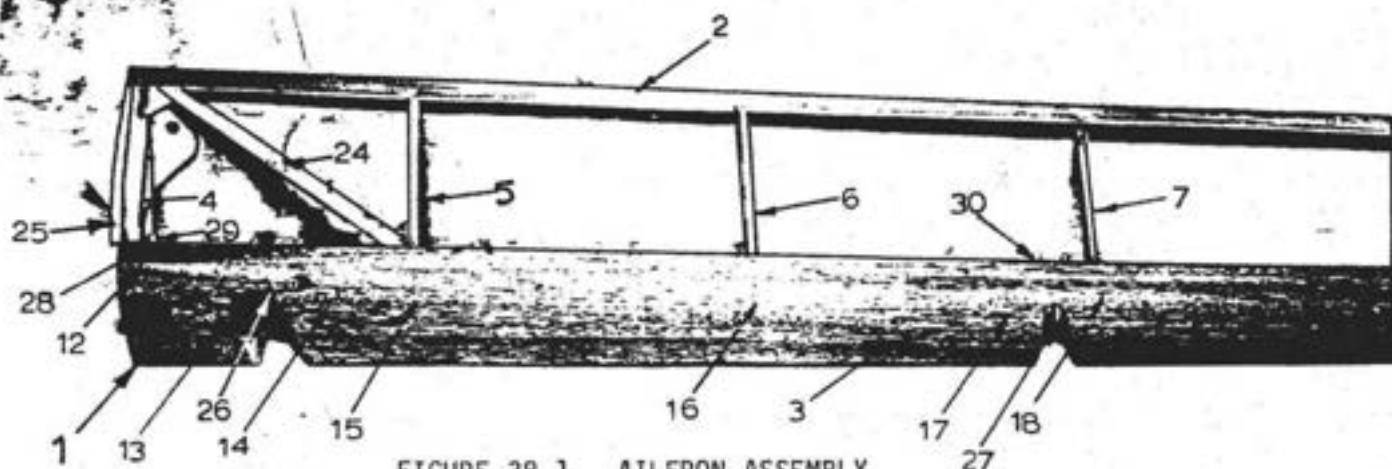


FIGURE 38.1 AILERON ASSEMBLY

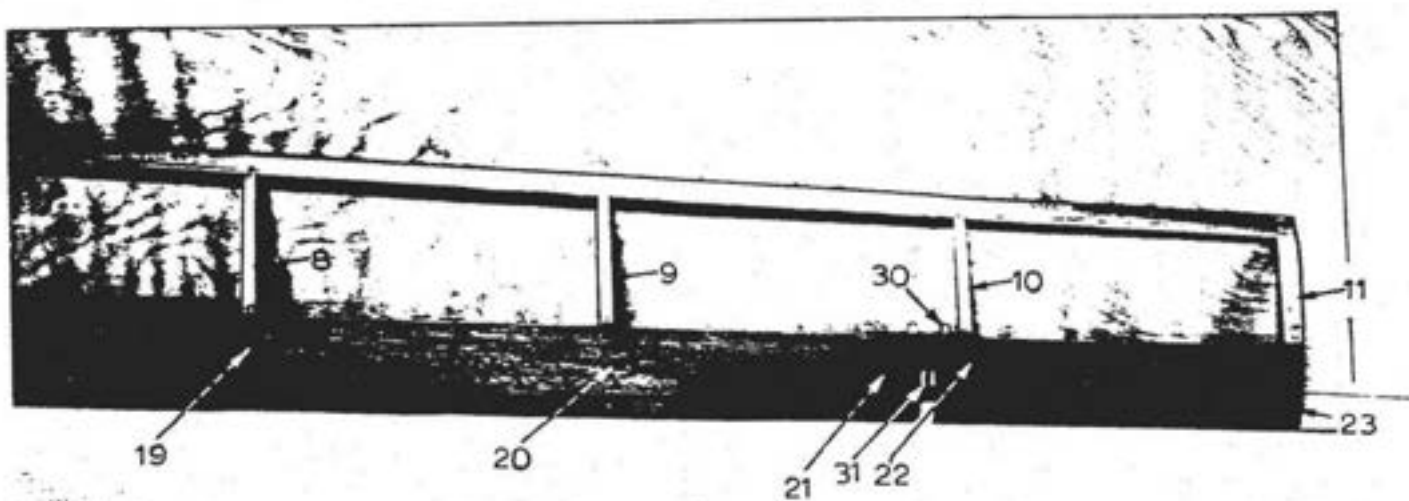


FIGURE 38.2 AILERON ASSEMBLY

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
37.2-		AILERON ACTUATING ARM ASSEMBLY			
	195347	Arm Assembly - R/H	1		
	195350	Arm Assembly - L/H	1		
1	195348	Actuating Arm - R/H	1 R/H		
	195351	Actuating Arm - L/H	1 L/H		
- 2	195356	Bearing Shaft	1	D	
- 3	A2434B	Bearing	2	D	
	400-18	Bearing (Alternate for A2434B)	2	D	
- 4	AN320-6	Nut	1	D	
- 5	AN380-3-3	Cotter Pin	1	D	
- 6	AN435-5-16	Rivet	1	D	
- 7	195358	Bushing	2	D	
- 8	195357	Spacer	1	D	
D - These parts are typical left and right.					

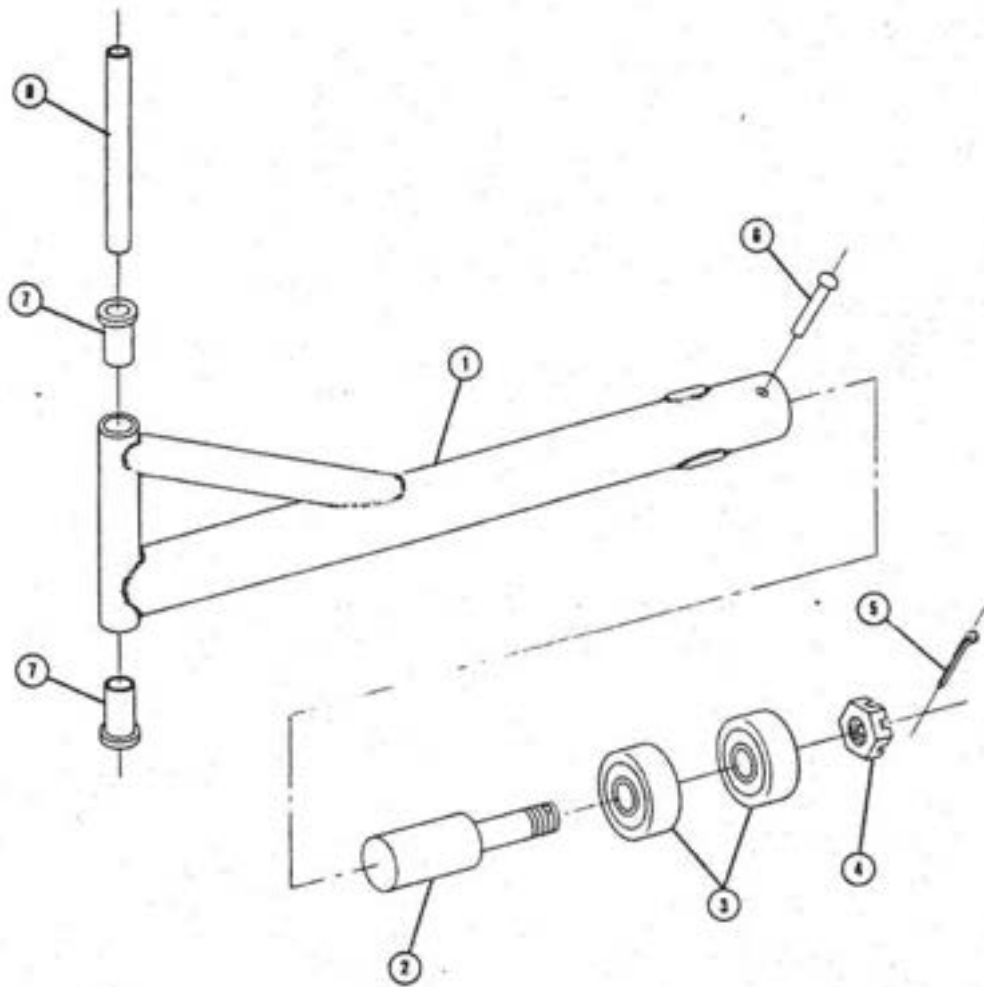


FIGURE 37.2 AILERON ACTUATING ARM ASSEMBLY

BELLANCA**Illustrated Parts Catalog**

FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
37.1-				
-26	AN3-6	Bolt	1	D
-27	AN960-10	Washer	1	D
-28	AN310-3	Nut	1	D
-29	AN380-2-2	Cotter Pin	1	D
-30	195359	Push-Pull Tube	1	D
-31	AN316-5L	Nut	1	D
-32	AN161-46LL	Fork-Turnbuckle	1	D
-33	19527-1	Support	2	D
-34	AN3-7A	Bolt	4	D
-35	192749	Roller Guide	1	D
-36	195350	Actuating Arm Assembly, L/H	1 L/H	
	195347	Actuating Arm Assembly, R/H	1 R/H	
-37	AN3-15	Bolt	1	D
-38	AN960-10L	Washer	1	D
-39	AN320-3	Nut	1	D
-40	AN380-2-2	Cotter Pin	1	D
-41	AN3-26	Bolt	1	D
-42	AN960-10	Washer	2	D
-43	AN320-3	Nut	1	D
-44	AN380-2-2	Cotter Pin	1	D
-45	RE3M6A	Rod End	1	D
-46	AN316-6R	Nut, Check	1	D
-47	AN3-21A	Bolt	3	D
-48	AN970-3	Washer	3	D
-49	AN960-D10	Washer	4	D
-50	AN960-D10L	Washer	1	D
-51	AN365-1032	Nut	3	D
		D - This item typical two places as shown.		

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
37.1-		AILERON CONTROL SYSTEM INSTALLATION		
-]	195671-1	Chain	1	
- 2	C-4282	Link - Connecting	1	D
- 3	195172	Cable Assembly	1	D
- 4	195504	Cable Assembly	1	
- 5	MS24566-3B	Pulley	1	D
- 6	195376	Guard, Pulley	1	D
- 7	AN4-10	Bolt	1	D
- 8	AN960-416	Washer	2	D
- 9	AN310-4	Nut	1	D
-10	AN380-2-2	Cotter Pin	1	D
-11	AN3-4	Bolt	1	D
-12	195379	Nut	1	D
-13	AN380-2-2	Cotter Pin	1	D
-14	195503-10 L/H	Bellcrank Assembly, L/H	1 L/H	
	195603-10 R/H	Bellcrank Assembly, R/H	1 R/H	
-15	195336	Bushing	1	D
-16	195503-2	Bracket	2	D
-17	AN25-17	Bolt, Clevis,	1	D
-18	AN960-516		A/R	D
-19	AN960-516L	Washer	A/R	D
-20	AN320-5	Nut	1	D
-21	AN380-2-3	Cotter Pin	1	D
-22	AN23-11	Bolt, Clevis	2	D
-23	AN960-10	Washer	2	D
-24	AN310-3	Nut	2	D
-25	AN380-2-2	Cotter Pin	2	D
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D - This item typical two places as shown.				

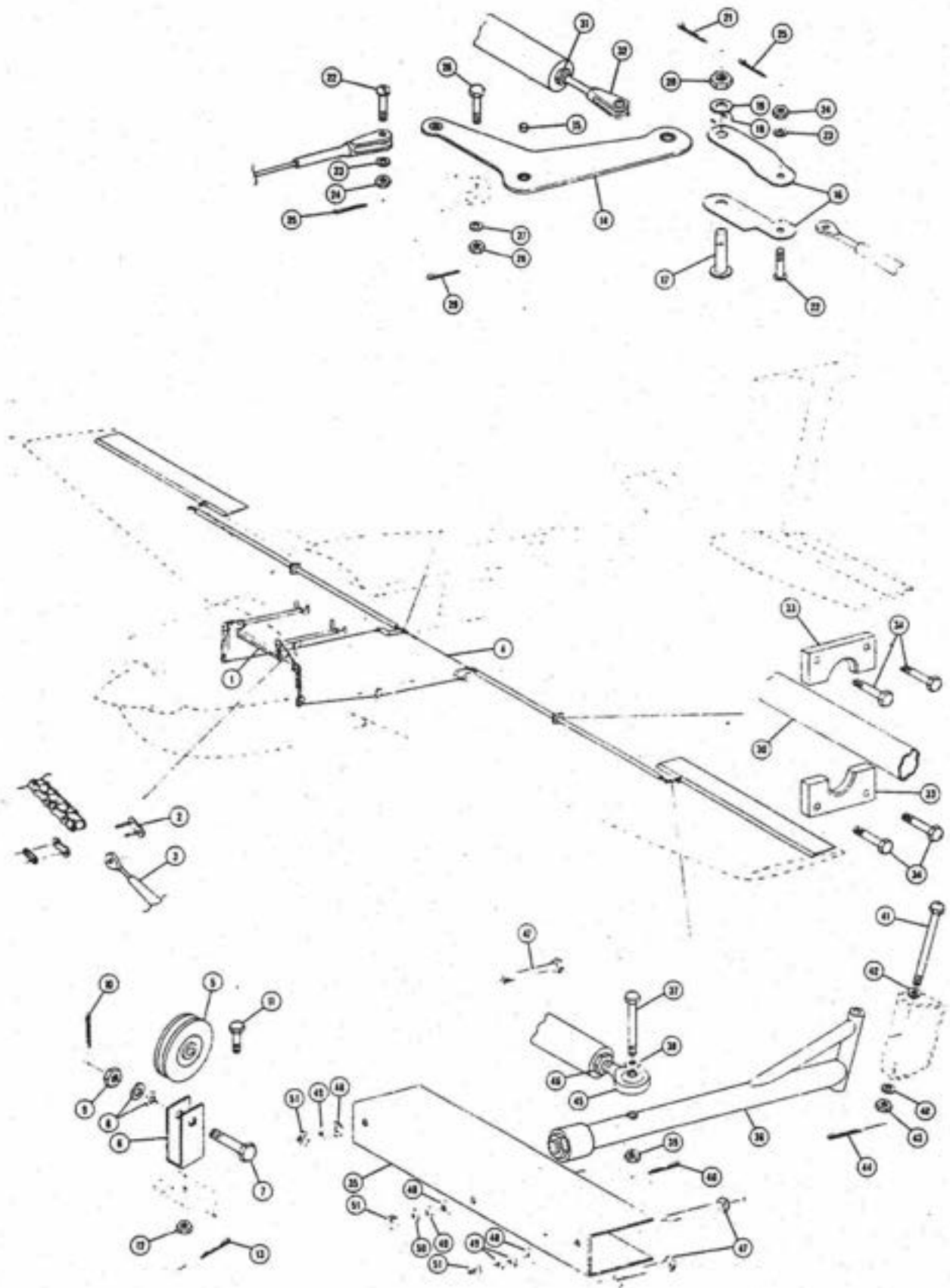


FIGURE 37.1 AILERON CONTROL SYSTEM INSTALLATION

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
36-				
-25	196715-2	Bolt	2	
-26	AN316-4R	Nut	2	
-27	196715-2	Bolt	1	
-28	AN316-4R	Nut	1	
-29	18754-6	Pulley	2	D
-30	AN4-35	Bolt	1	D
-31	AN960-416	Washer	A/R	D
-32	AN320-4	Nut	1	D
-33	MS24665-132	Cotter Pin	1	D
-34	195166	Guard - Pulley, L/H	1 L/H	
	195165	Guard - Pulley, R/H	1 R/H	
-35	AN4-26	Bolt	1	D
-36	AN960-416	Washer	A/R	D
-37	AN320-4	Nut	1	D
-38	MS24665-132	Cotter	1	D
-39	AN6-31	Bolt	1	D
-40	AN970-6	Washer	1	D
-41	AN960-616	Washer	A/R	D
-42	AN320-6	Nut	1	D
-43	MS24665-283	Cotter Pin	1	D
-44	5884	Bearing	1	D
-45	195681-1	Housing	1	D
-46	19696	Bracket	1	D
-47	AN970-4	Washer	1	D
-48	AN4-16A	Bolt	2	D
-49	AN960-416	Washer	A/R	D
-50	MS20365-428	Nut	2	D
D - Left hand shown, right hand typical.				

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FIGURE AND INDEX No.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
36-	195671	CONTROL COLUMN INSTALLATION Control Column Installation	--		
- 1	195669-0	Yoke	1		
- 2	195652-0	Sprocket	1		
- 3	195163	Sprocket	3		
- 4	AN4-12A	Bolt	4		
- 5	AN960-416	Washer	4		
- 6	MS20365-428	Nut	4		
- 7	5273	Bearing	8		
- 8	196715-4	Bolt	2		
- 9	AN316-4R	Nut	2		
-10	195637-20	Tube Assembly	2		
-11	195702-1	Universal	1	D	
-12	195618	Tube	1	D	
-13	195719-1	Shaft	1	D	
-14	AN4-13A	Bolt	1	D	
-15	AN960-416L	Washer	1	D	
-16	MS20365-428	Nut	1	D	
-17	195709-1	Adaptor	1	D	
-18	AN24-24A	Bolt, Clevis	1	D	
-19	AN960-416L	Washer	1	D	
-20	MS20364-428		1	D	
-21	AN4-7A	Bolt	2	D	
-22	AN960-416	Washer	2	D	
-23	195726-0	Control Wheel, R/H	1 R/H		
	195726-10	Control Wheel, L/H	1 L/H		
-24	195730-0				
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0 - Left hand shown, right hand typical.					

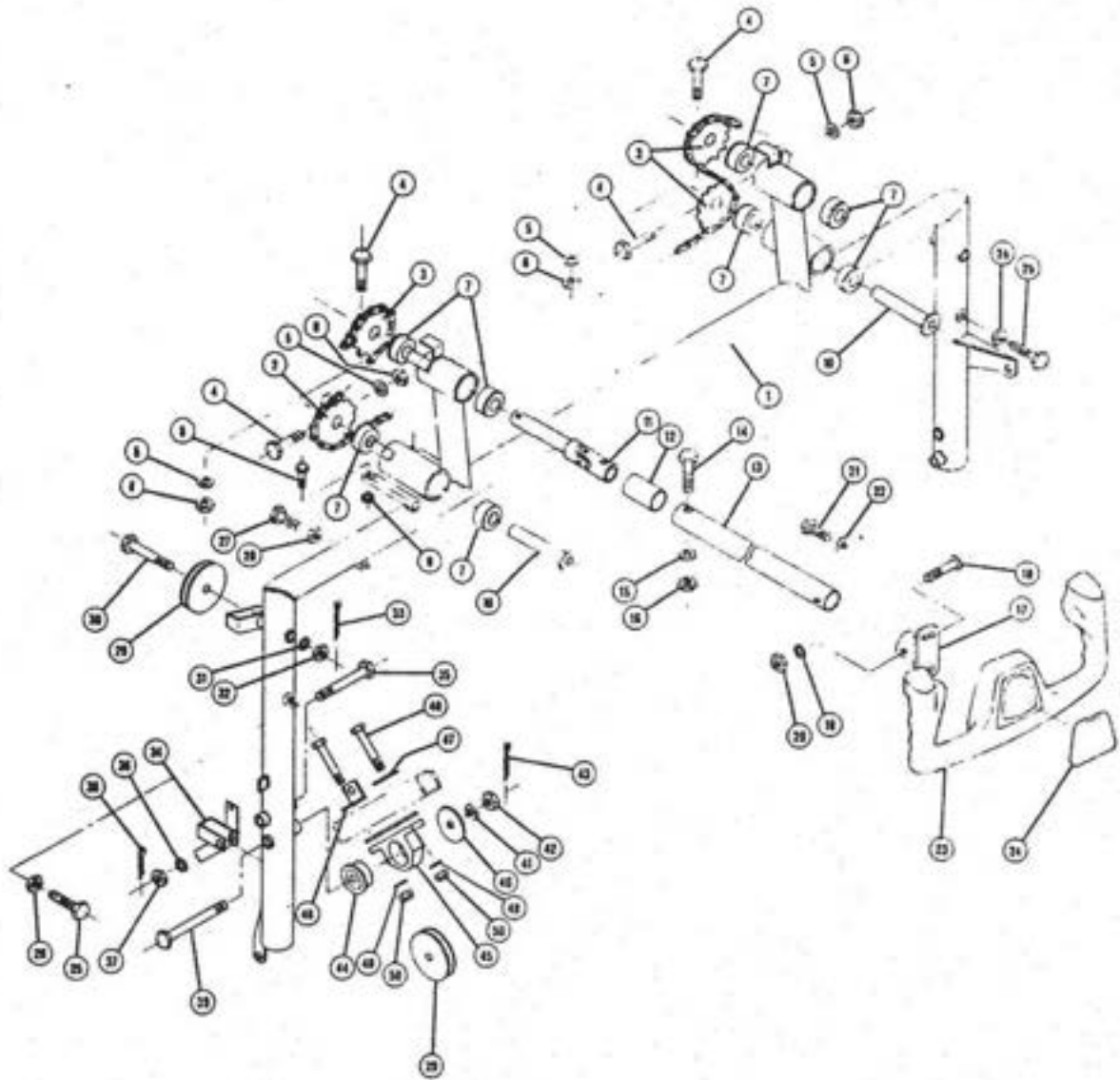


FIGURE 36. CONTROL COLUMN INSTALLATION

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
35-				
-26	AN970-3	Washer	1	D
-27	AN320-3	Nut	1	D
-28	AN380-2-2	Cotter Pin	1	D
-29	AN23-14	Clevis Bolt, Outboard Flap Attach	1	D
-30	AN960-10	Washer	1	D
-31	192141	Spacer	1	D
-32	AN960-10L	Washer	1	D
-33	AN320-3	Nut	1	D
-34	AN380-2-2	Cotter Pin	1	D
-35	AN23-11	Clevis Bolt, Center Flap Attach	1	D
-36	AN960-10	Washer	2	D
-37	192176-2	Spacer	1	D
-38	AN310-3	Nut	1	D
-39	AN380-2-2	Cotter		D
-40	192585	Spring	1	D
-41	AN4-6	Bolt, Inboard Flap Attach	1	D
-42	AN960-416	Washer	1	D
-43	AN310-4	Nut	1	D
-44	AN380-2-2	Cotter Pin	1	D
D - Left hand shown, right hand typical.				

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
35-		INSTALLATION - WING CONTROL SURFACES			
	192516	Installation - Wing Control Surfaces			
- 1	192519 R/H	R/H Aileron	1		
- 2	192519 L/H	L/H Aileron	1		
- 3	192520 R/H	R/H Flap	1		
- 4	192520 L/H	L/H Flap	1		
- 5	19701	Aileron Trim Tab	1		
- 6	AN526-632-9	Screw	3		
- 7	AN364-632	Nut	3		
- 8	AN23-13	Clevis Bolt, Outboard Aileron Attach.,,,	1	D	
- 9	AN960-10	Washer	2	D	
-10	AN320-3	Nut	1	D	
-11	AN380-2-2	Cotter Pin	1	D	
-12	192139	Spacer	1	D	
-13	192135	Aileron Balance Arm Assembly, L/H	1	D,F	
-14	AN23-16	Clevis Bolt, Balance Arm Attach	1	D	
-15	AN960-10	Washer	1	D	
-16	AN320-3	Nut	1	D	
-17	AN380-2-2	Cotter Pin	1	D	
-18	AN509-10-12	Screw, Balance Arm Attach	1	D	
-19	192139	Spacer	1	D	
-20	AN960-10L	Washer	1	D	
-21	AN960-10	Washer	1	D	
-22	AN365-1032	Nut	1	D	
-23	AN23-23	Clevis Bolt, Inboard Aileron Att a c h	1	E	
-24	AN960-10	Washer	1	E	
-25	192140	Spacer	1	E	
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D - Right hand shown, left hand typical. E - Left hand shown, right hand typical. F - Specify left or right when ordering.					

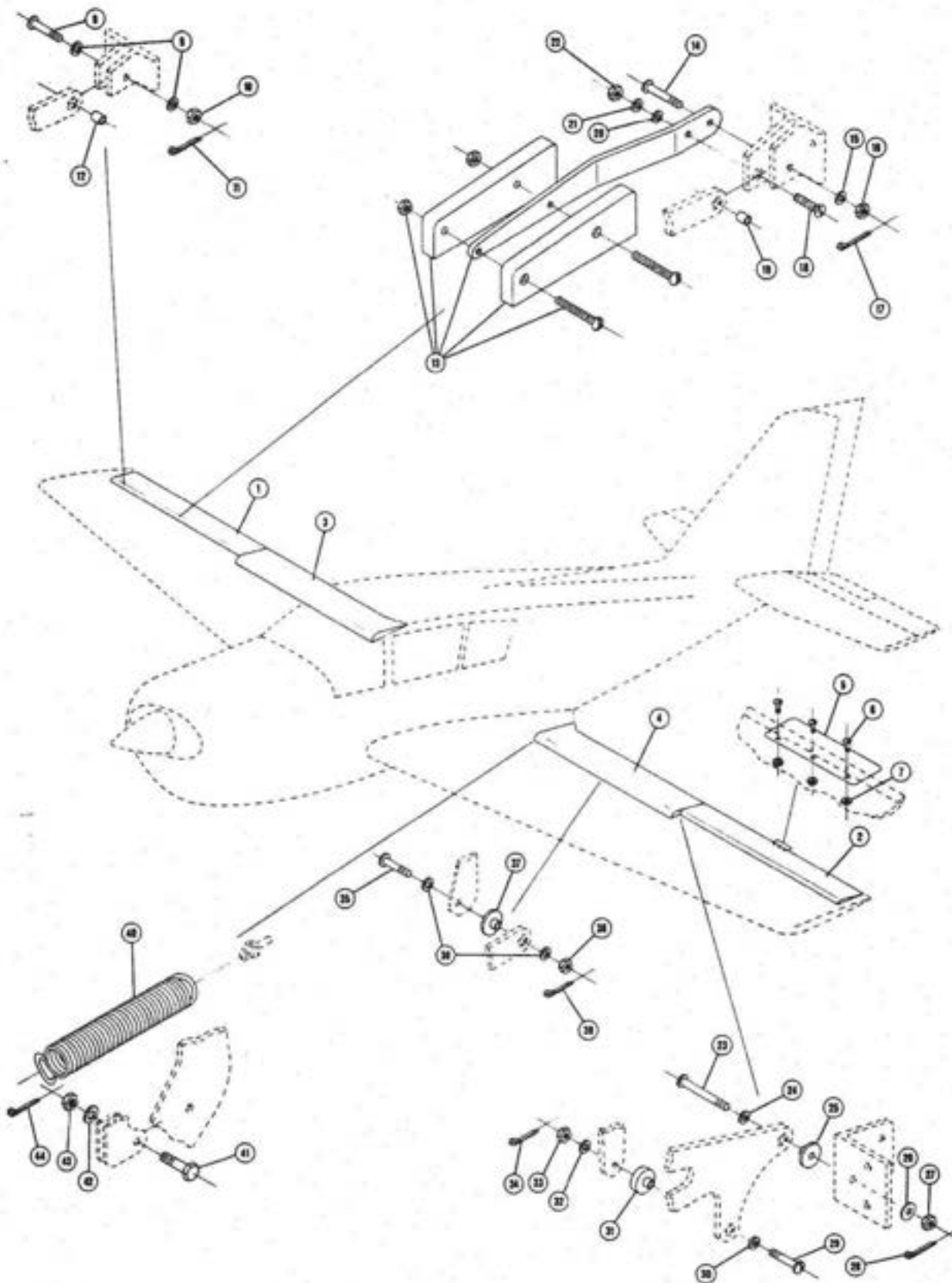


FIGURE 35. INSTALLATION - WING CONTROL SURFACES

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	FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE	
	34.2-					
	-19	197407-3	Tubing	1	D	
		197308-0	Assembly, Valve	1		
	-20	198008-149	Metal Line	1		
		AN818-3D	Nut Coupling	1		
		AN819-3D	Sleeve Coupling	1		
	-21	AN822-3D	Elbow	1		
	-22	AN910-1D	Coupling	1		
	-23	MTV-3P	Valve	1		
	-24	U-109	Washer	1		
		U-680	Ring Nut	1		
	-25	AN826-3D	Tee	1		
	-26	196911-1	Tubing	1		
	-27	R926-731	Pressure Switch	1		
	-28	AN526-6-6	Screw	2		
	-29	AN365-632	Nut	2		
	-30	T1GK51-1L-BL-FN	Pitot Heat Switch (See Figure 31)	-		
			</			



FIGURE AND INDEX NO	PART NUMRER	DESCRIPTION	UNITS PER ASSY.	CODE	
34.2-					
-13	198008-138	Metal Line	1	D,E	
	198008-97	Meta1 Line	1	D,F	
	198008-183	Metal Line	1	D,G	
	AN818-3D	Nut Coupling	2		
	AN819-3D	Sleeve Coupling	2		
-14	AN826-3D	Tee	1	H	
	AN822-3D	Elbow	1	I	
-15	5934	Altimeter (See Figure 31)	-		
	5934A	Altimeter (See Figure 31)			
	5035P-P12	Altimeter, Encoding (See Figure 31)	-		
-16	8941-632	Nut, Tinnerman	3	E	
	A8943-632	Nut, Tinnerman	3	F	
	8940-632	Nut	3	G	
-17	632 x 1	Screw	3		
-18	198008-77	Metal Line	2	D	
	AN818-3D	Nut, Coupling	2		
	AN819-3D	Sleeve, Coupling	2		
		Continued On Next Page			
		D-This part sold as a unit with the nuts and sleeves assembled.			
		E-This part used with standard altimeters.			
		F-This part used with encoding altimeters with the expection of 5035P-P12 5035P-P12.			
		H-This part used with installation of alternate static source.			
		I-This part used if alternate static source is not installed.			



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
34.2-		PITOT STATIC SYSTEM		
	196507	Installation - Instrument Static	-	
	197407	Installation - Static Source - Alternate		
	198008-61	Metal Line	2	D
	AN818-3D	Nut Coupling	2	
	AN819-3D	Sleeve Coupling	2	
- 2	AN824-3D	Tee	1	
- 3	198008-97	Metal Line	1	D
	818-3	Nut Coupling	2	
	AN819-3D	Sleeve Coupling	2	
- 4	AN816-3D	Nipple	1	
- 5	196854	Airspeed Indicator (See Figure 31)		
	197136	True Airspeed Indicator (See Figure 31)	-	
- 6	8941-632	Nut, Tinnerman	4	
- 7	632 x 1 1/4	Screw	4	
- 8	198008-72	Metal Line	1	D
	AN818-3D	Nut Coupling	2	
	AN819-3D	Sleeve Coupling	2	
- 9	AN826-3D	Tee	1	
-10	7030T	Vertical Speed Indicator (See Figure 31)	-	
-11	8941-632	Nut, Tinnerman	3	
-12	632 x 1	Screw	3	
Continued On Next Page				
This part sold as a unit with the nuts and sleeves assembled,				

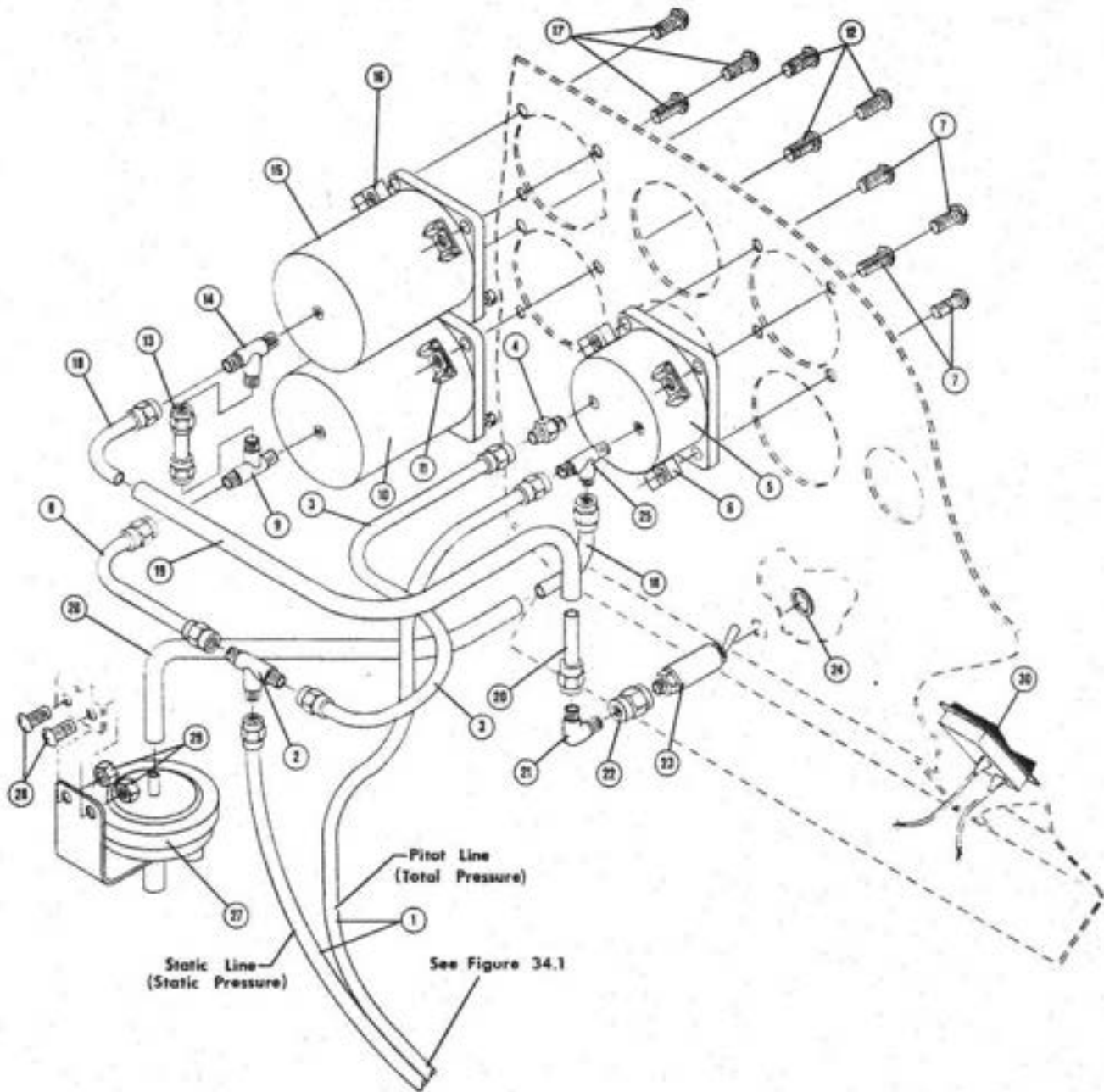


FIGURE 34.2 PITOT STATIC SYSTEM



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
34.1-				
-17	198008-166	Metal Line	1	E
	AN818-3D	Nut Coupling	1	
	AN819-3D	Sleeve Coupling	1	
	196507-0	Drain Assembly Static Line	1	
-18	AN826-3D	Tee	1	
-19	AN910-1D	Coupling	1	
	AN932-2	Plug	1	F,G
-20	CCA-1550	Quick Drain	1	H
-21	MS21919-DF8	Clamp	1	
-22	AN520-10-22	Screw	1	
	AN520-10-24	Screw (Alternate For AN520-10-22)	1	
-23	AN970-3	Washer	1	
-24	AN365-1032	Nut	1	
-25	192503-53	Transflex Tubing	2	
-26	198008-61	Metal Line (See Figure 34.2 Index No. -1)	-	J
-27	AN931-6-10	Grommet	1	J

E-This part sold as a unit with the nuts and sleeves assembled.

F-This part not shown in the illustration.

G-This part is installed on AN910-1D until the aircraft has been painted.

H-This part should be replaced by AN932-2 while aircraft is being painted.

J-The 198008-61 tubes pass from the wing to the fuselage through the AN931-6-10.



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
34.1-		PITOT STATIC SYSTEM		
- 1	196888	Installation - Heated Pitot Tube	1	
- 2	196916	Pitot Tube	1	
- 3	MS35207-259	Screw	4	D
- 4		Washer	4	D
- 5	AN3115-1	Receptacle	1	D
- 6	196385-10	Streamline Tube	1	
- 7	AN515-8R-16	Screws	4	
- 8	AN970-3	Washer	4	
- 9	AN365-832	Nut	4	
- 10	198003-93	Metal Line	2	E
- 11	AN818-4D	Nut Coupling	4	
- 12	AN819-4D	Sleeve Coupling	4	
- 13	192503-55	Transflex Tubing (Installed On Static Line)	1	
- 14	192503-56	Transflex Tubing (Installed On Pitot Line)	1	
- 15	206120-146	Electrical Wire	1	
- 16	192503-54	Transflex Tubing (Installed On Electrical Wire)	1	
- 17	AN919-2D	Reducer	2	
- 18	198008-92	Metal Line	1	E
- 19	AN818-3D	Nut Coupling	1	
- 20	AN819-3D	Sleeve Coupling	1	
- 21	198008-91	Metal Line	1	E
- 22	AN818-3D	Nut Coupling	2	
- 23	AN819-3D	Sleeve Coupling	2	
CONTINUED ON NEXT PAGE				
D-This hardware furnished with Part 196916.				
E-This part sold as a unit with the nuts and sleeves assembled.				

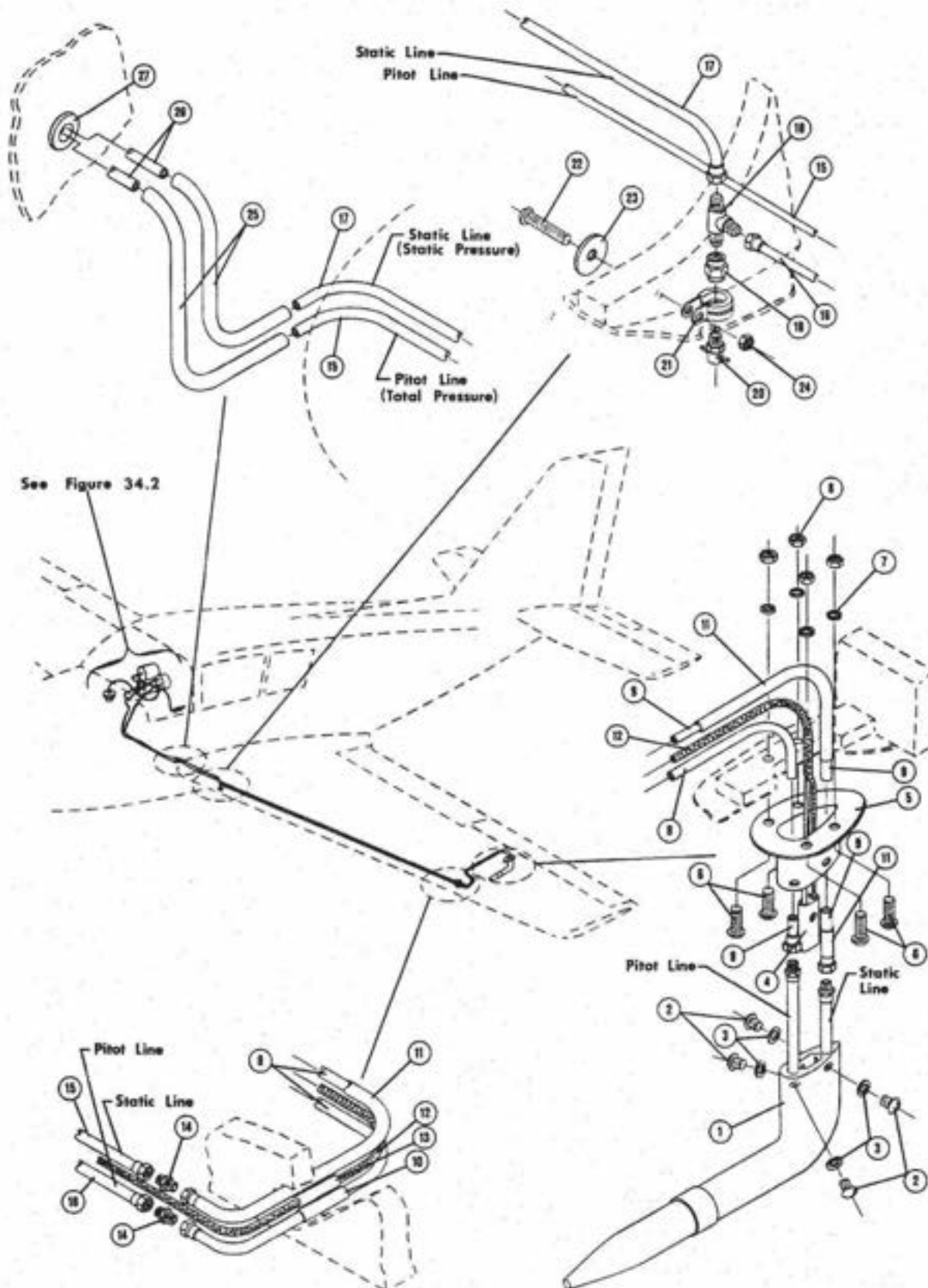


FIGURE 34.1 PITOT STATIC SYSTEM

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	FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE	
	33.-					
	-23	1X314	Filter	1	D	
		51A5	Filter Element (Reglacoable)	1		
	-24	MS21919-DF17	Clamp	2		
	-25	AN520-10812	Screw	2		
	-26	MS20365-1032	Nut	2		
	-27	198003-161	Hose	1		
	-28	1K9-4-6	Elbow	2		
	-29	5000B-4	Attitude Gyro (See Figure 31)	-		
	-30	632 x 1	S c r e w	7		

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
33.-		VACUUM SYSTEM		
	196509-100	Vacuum Pump Assembly	1	A
	196509-120	Vacuum Pump Assembly	1	B,C
	1U128-001	Vacuum Pump	1	
- 2	1K1-6-10	Elbow	1	
- 3	1K1-6-10	Elbow	1	A
	1K9-6-10	Elbow	1	B,C
- 4	198010-41	Hose	1	A
	198010-8	Hose	1	B,C
5	QS200-M1bS	Clamp	2	
6	MS21919-DF14	Clamp	2	A
- 7	AN520-10-12	Screw	2	A
	AN960-10L	Washer	2	A
- 9	AN936-AIO	Washer	2	A
-10	AN315-3R	Nut	2	A
	196509-130	Vacuum System Assembly	1	
-11	2H3-12	Regulator	1	
-12	198010-36	Hose	2	
-13	R-10	Clamp	8	
-14	1K9-4-6	Elbow	2	
-15	4000C	Directional Gyro (See Figure 31)	-	
-16	1K9-2-4	Elbow	1	
	1K1-2-4	Elbow (Alternate For 1K9-2-4)	1	
-17	R-8	ClAMP	2	
-18	198003-137	Hose	1	
-19	196104	Suction Gauge (See Figure 31)	-	
-20	632 x 1/2	SCreW	2	
-21	198003-138	Hose	1	
-22	1K1-4-6	Elbow	2	
		CONTINUED ON NEXT PAGE		

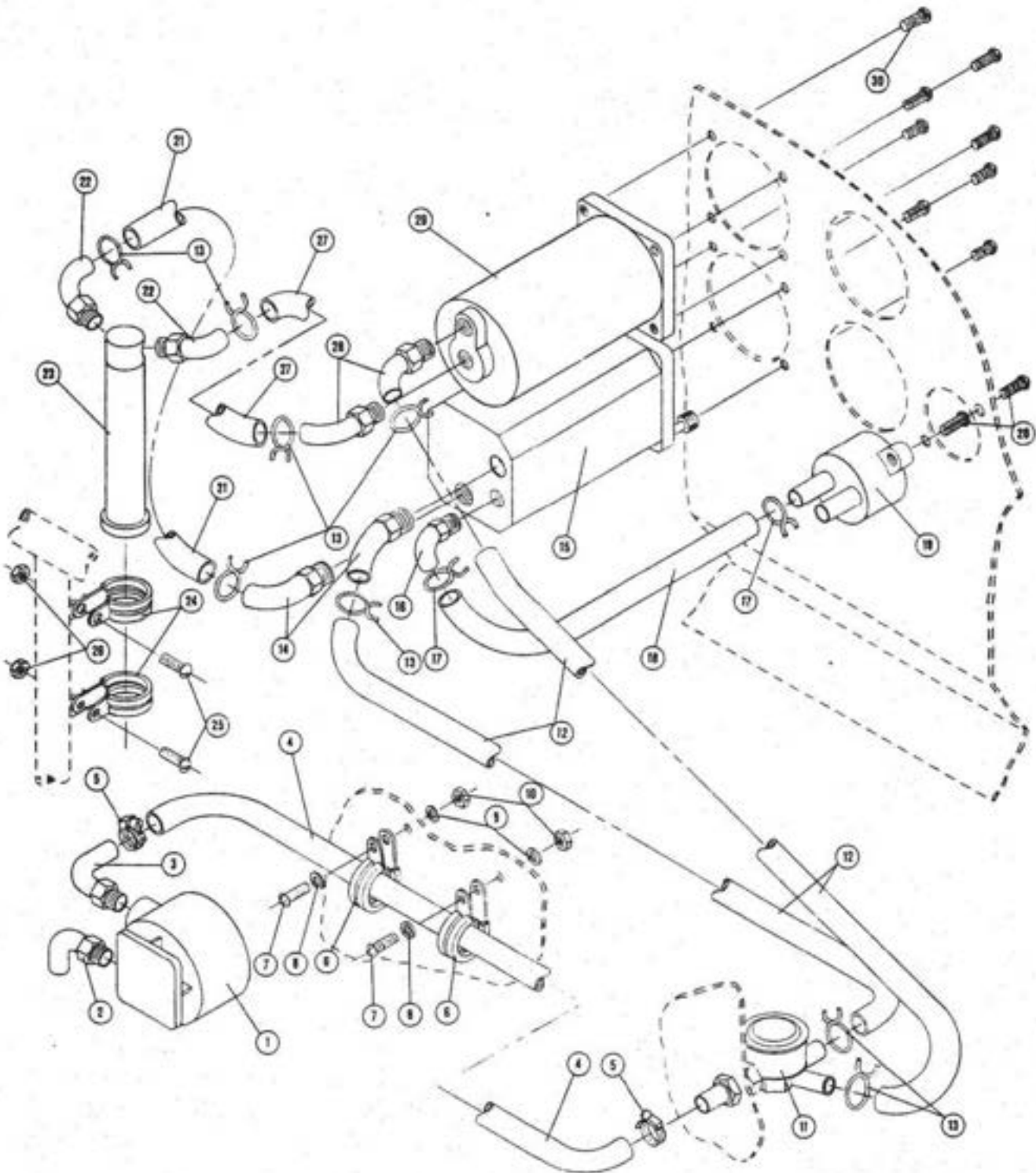


FIGURE 33. VACUUM SYSTEM

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FIGURE AND INDEX No.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
32-		INSTRUMENT PANEL - GENERAL ARRANGEMENT		
- 1	CP125	Audio Panel	1	D
- 2	COM 11B	Nav I Transceiver	1	D
- 3	COM 11B	Nav II Transceiver	1	D
- 4	ADF 140	ADF Transceiver	1	D
- 5	AT-50A	Transponder	1	D
- 6	DME-190	DME	1	C
- 7	1C388-M	Radio Coupler	1	D
- 8	MSL-206N.	Radio Coupler Switch	1	D
- 9	1C385	Century II Auto Pilot	1	D
-10	90-101	"G" Meter	1	D
-11	L-140B	Cigar Lighter	1	D
-12	6296	Stereo	1	D
-13	12B	Phone Jack - Stereo	2	D
-14	45-700-P	Circuit Breaker	A/R	E
-15	195607-10	Flap Switch	1	
	0813526-6	Flap Knob	1	
-16	3SF4ARB4	Red Light	1	
-17	3SF4AAB4	Amber Light	1	
-18	3SF4AGB4	Green Light.....	1	
D - Equipment optional, different configurations may be in use. E - When ordering, specify amperes size.				

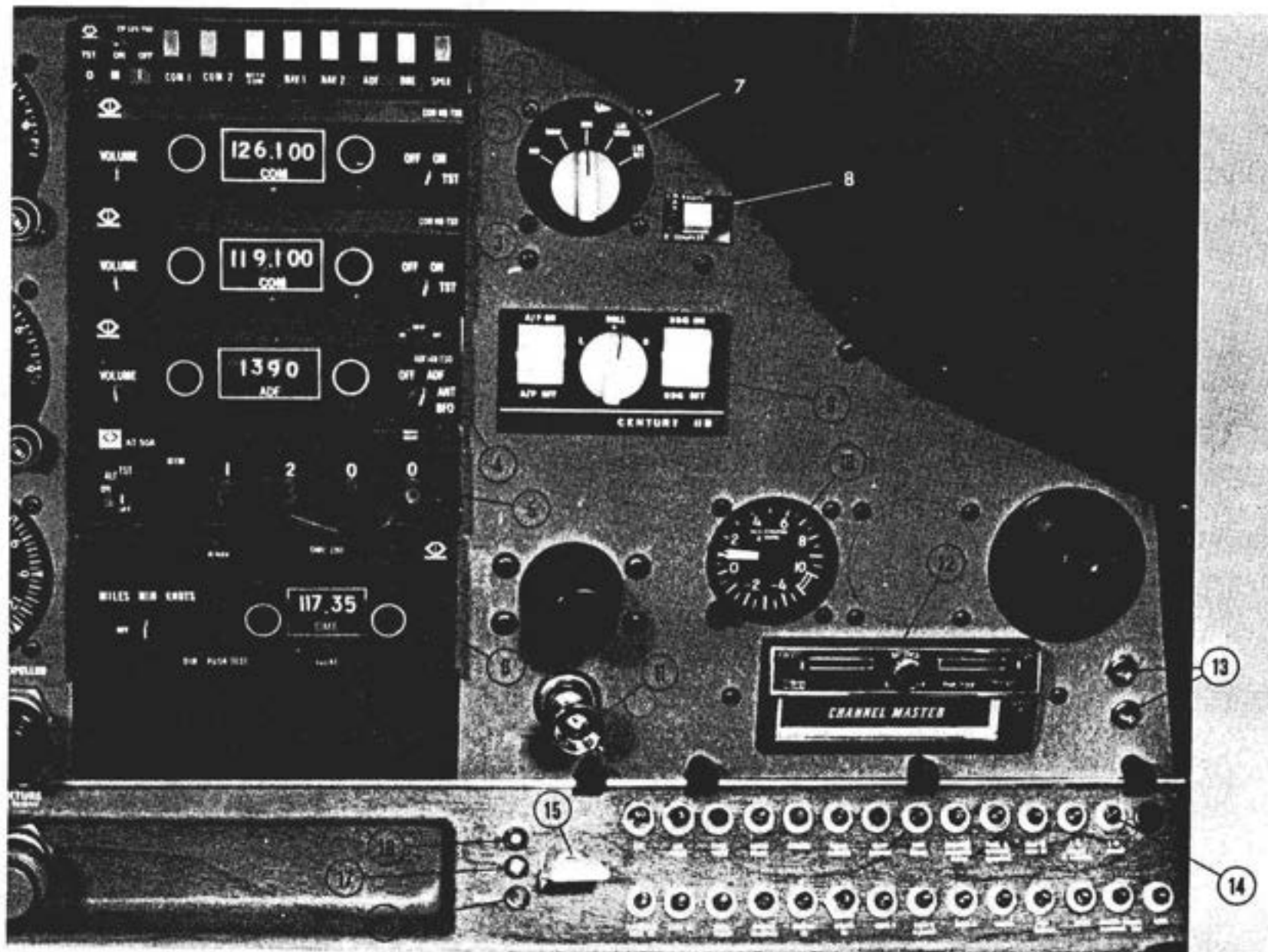


FIGURE 32. INSTRUMENT PANEL - GENERAL ARRANGEMENT



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
31.-				
-30	0105	Radio Rheostat	1	
	26F676	Knob	1	
-31	0107	Console Rheostat	1	
	26F672	Knob	1	
-32	0144	Panel Rheostat	1	
	26F672	Knob	1	
-33	197308-0	Alternate Static Source Valve	1	
-34	30-1	Press-To-Test Switch	1	
-35	TIGG51-1L-WH-FN	Taxi-Landing Light Switch	1	
-36	T1GL61-1L-BL-FN	Navigation Switch	1	
-37	T1GK51-2L-D-BL-FN	Strobe Switch	1	
-38	TIGK51-1L-BL	Dome Switch	1	
-39	T1GK51-1L-BL-FN	Pitot Heat Switch	1	
-40	T1LP51-1L-BLUE-FN	Radio Master Switch	1	
-41	3SF4ARB4	Red Light	2	
-42	3SF4AGB4	Green Light	3	



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
31.-				
-16	MTL-106D	Turbo Switch	1	C
-17	MSD20GN	Electric Trim Switch	1	D
-18	1U044-103-1	Main Fuel Gauge	1	
-19	1U046-105-9	Auxiliary Fuel Gauge	1	A,B
	197443-1	Auxiliary Fuel Gauge	1	C
	197445-1	Fuel Pressure Gauge	1	C,E
-20	10078-101-1	Oil Pressure - Oil Temperature	1	A
	10078-101-8	Oil Pressure - Oil Temperature	1	B,C
-21	10079-101-1	Cylinder/AMPS	1	A
	10079-101-2	Cylinder/AMPS	1	B,C
-22	10-126676	Magneto Switch Identification Plate	1	A
	10-187468	Magneto Switch Identification Plate	1	B,C
-23	10-357200-1A	Magneto Switch	1	A
	10-357210-1A	Magneto Switch	1	B,C
-24	T1GK51-1L-RED-	Master Switch	1	
-25	LTIGG5B-IL-BL- RC-FN	Auxiliary Fuel Pump Switch	1	A
	LT1GK51-1L-BL- RC-FN	Auxiliary Fuel Pump Switch	1	B,C
-26	A-8970-1-330	Post Light	A/R	
-27	3SF4ARB4	Red Light	1	
-28	3SF4AGB4	Green Light	3	
-29	8859K44	Gear Switch.....	1	
	118665	Knob		
	AN565-D8-H2	Set Screw	1	
Continued On Next Page				
D-This item is optional, different configurations may appear.				
E-To be used only on aircraft without auxiliary fuel tank.				



FIGURE AND INDEX NO	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
31.-		INSTRUMENT PANEL - GENERAL ARRANGEMENT		
- 1	206212	Instrument Panel	1	F
- 2	196104	Suction	1	
- 3	196854	Airspeed Indicator	-	
	EA-5176-1L-BEL	Indicator	1	
	8030	Indicator (Alternate For EA-5176-1L-BEL)	1	
	197136	True Airspeed Indicator (Optional)	-	
	EA-5175-ITL-BEL	Indicator	1	
	2030-2024-53-1510	Indicator (Alternate For EA-5175-ITL-BEL)		
- 4	5000B-11	Attitude Gyro	1	
- 5	5934		1	A,B
	5934A	Altimeter	1	C
- 6	7030T	Vertical Speed Indicator	1	
- 7	4000B-14	Directional	1	
- 8	26220-C	Turn and Bank Indicator	1	
- 9	28	Clock 8 Day	1	
-10	EA-35-6PBAL			
-11	NAV 111	Nav I Indicator	1	D
-12	NAV 112	Nav II Indicator	1	D
-13	PDF-35	ADF	1	D
-14	206005	Tachometer	1	A,D
	206006	Tachometer	1	B,C,D
-15	206002	Manifold Pressure - Fuel Flow	1	A,D
	206001	Manifold Pressure	1	B,D
	206000	Manifold Pressure - Fuel Flow	1	B,D
	197446-1	Manifold Pressure - Fuel Flow	1	C,D
		Continued On Next Page		
		D-This item is optional, different configurations may appear.		
		F-When ordering, specify which equipment package is to be installed.		

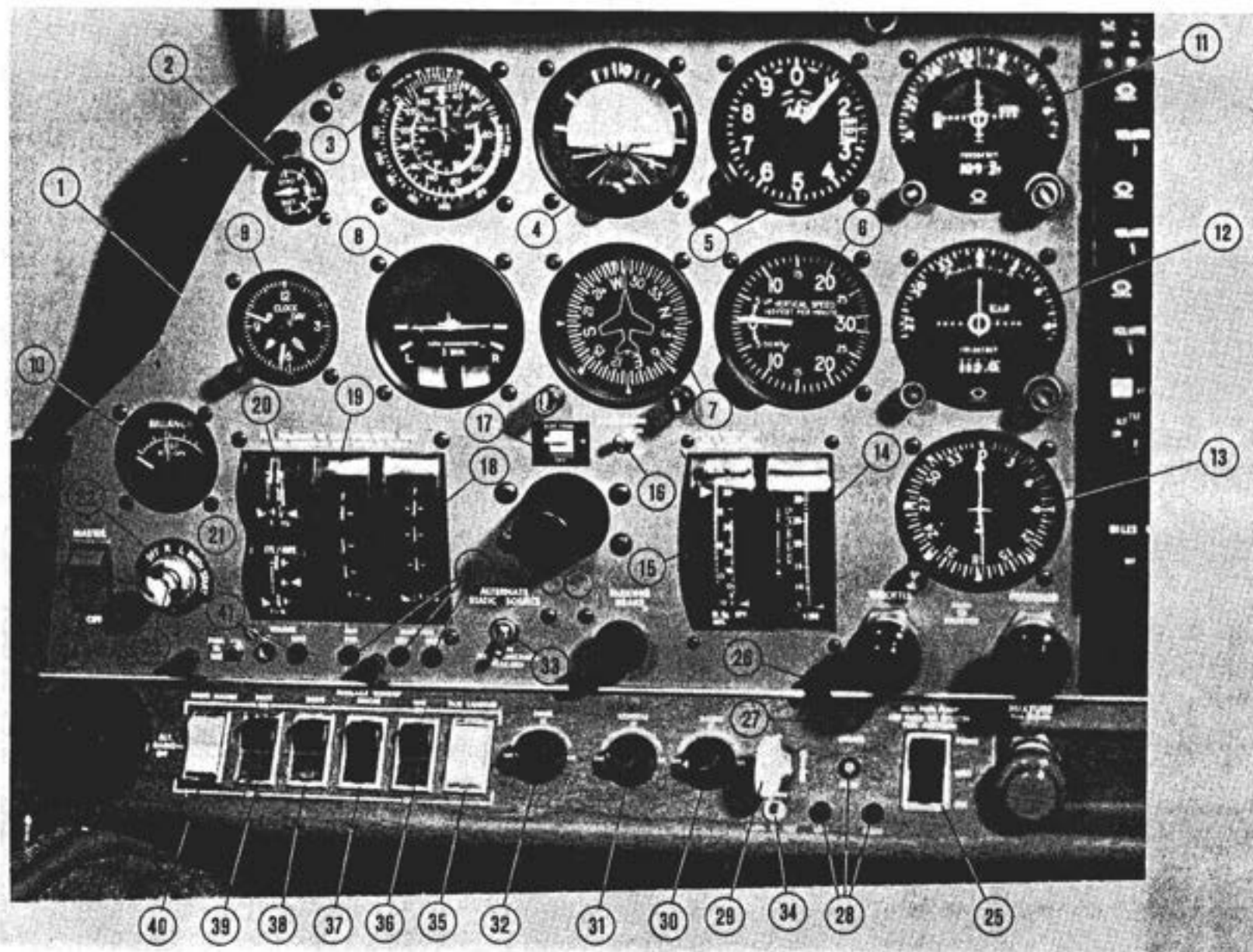


FIGURE 31. INSTRUMENT PANEL - GENERAL ARRANGEMENT



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
30.-				
-18	AN380-2-2	Cotter Pin	6	
-19	AN4-6	Bolt (Front Outboard Only)	2	
-20	500680-2	Shoulder Harness (Standard)	4	
-21	1/4 x 28 x 1½	Screw (Truss Head)	4	
	1/4 x 28 x 1½	Screw {Round Head}	4	H
-22	206217-1	Ring {Front Seats Only}	2	
-23	198004-113			
-24	500680-3	Inertia Shoulder Harness (Optional)	4	I
-25	206173-1	Cover	4	I
-26	AN4-10A	Screw	4	I
	1/4 x 28 x 1½	Screw (Truss Head)	4	I,J
	1/4 x 28 x 1½	Screw (Round Head)	4	I,J
-27	AN970-4	Washer	4	I
H-Alternate replacement for 1/4 x 28 x 1½ (truss head). I-The units per assembly for this part is the maximum permissible, J-Alternate replacement for AN4-10A.				

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
30.-		FUSELAGE EQUIPMENT INSTALLATION		
- 1	197030	Tow Bar	1	D
- 2	206259-20	Tow Bar Assembly	1	E
- 3	C3-9R/4SCHN	Faspin	1	
- 4	No. 6 x 3/8	Screw	1	
	197177	Installation, Sun Visor (L/H Standard)	-	
	197351	Installation, Sun Visor (R/H Optional)	-	
- 5	197394-0	Assembly, Sun	1	
- 6	197393-1	Sun Visor	1	
- 7	530	Visor Hardware	1	
- 8	MS20364-632	Nut	1	
	6-32 x 5/16	Screw	1	
- 9	6-32 x 5/16 x 11/32	Nut	3	
-10	AN960-6	Washer	3	
-11	6-32 x 5/16	Screw	3	
-12	AN520-10R10	Screw	3	
-13	197190	Fire Extinguisher	1	F
	206178	Installation, Seat Belt & Shoulder Harness	-	
-14	500680-1	Seat Belt	4	G
-15	AN4-10	Bolt (Center, Front and Back)	2	
-16	AN960-416	Washer	10	
-17	AN320-4	Nut	6	
		Continued On Next Page		
		D-This part used on aircraft serial numbers 75-30727 through 75-30796, 75-32-145 through 75-32-161 and 75-31108 through 75-31120.		
		E-This part used on aircraft serial numbers 76-30797 and up, 76-32-162 and up, and 76-31121 and up'.		
		F-Specify 2 1/2 ABC or 2 1/2 BC when ordering.		
		6-Specify color.		

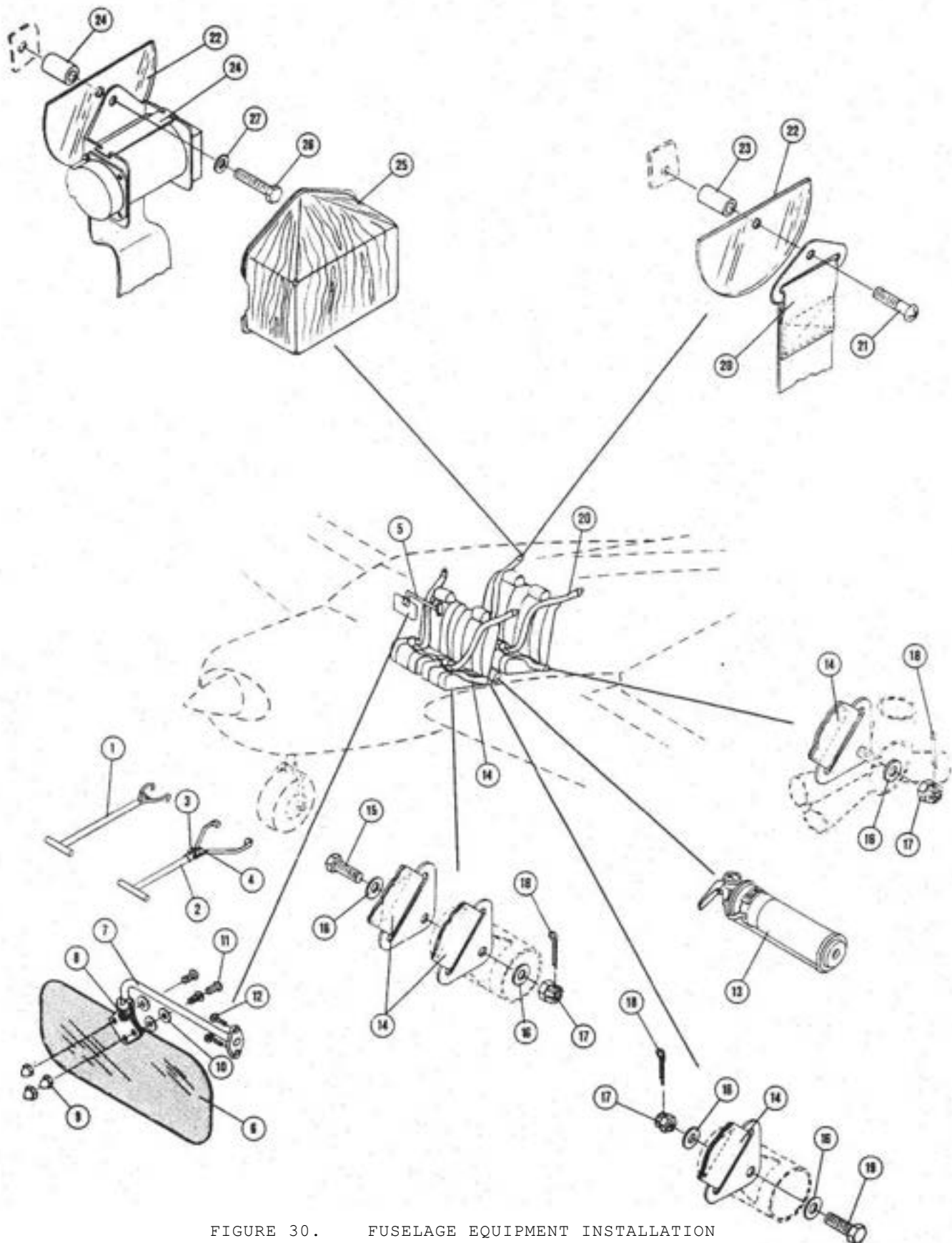


FIGURE 30. FUSELAGE EQUIPMENT INSTALLATION

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	FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY,	CODE
	28.4 - - 1	196960-30 196918-10	REAR SEAT Rear Seat Assembly Rear Seat Frame	1 1	D
			This part is not shown in the photograph.		

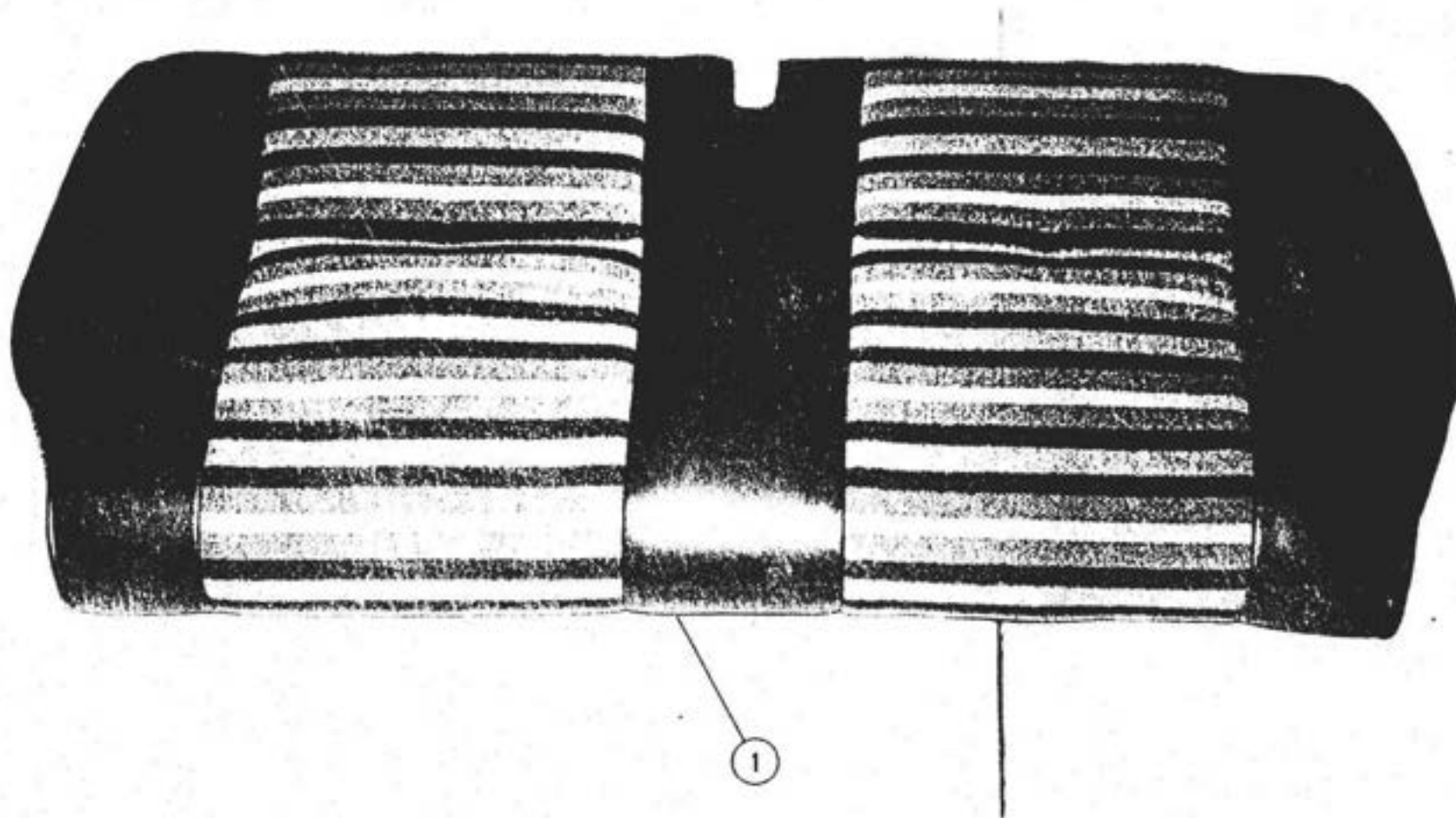
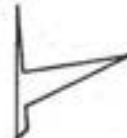


FIGURE 28.4 BACK SEAT

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
28.3-		SEAT BACK - REAR SEAT			
- 1	196960-40	Rear Seat Assembly - Seat Back	1		
	196917-10	Seat Back Frame	1	D	
- 2	197485-0	Headrest (Optional - 2 Locations)	1	F	
	197497-0	Headrest (Optional - 2 Locations)	1	G	
- 3	197338-3	Trim	2	E	
- 4	No. 6 x 1/2	Screw	4	E	
D - This part is not shown in the photograph. E - This part installed only when the optional 197485-0 or 197497-0 headrest is installed. F - For aircraft with Serial Numbers 75-30727 through 75-30796, 75-32-145 through 75-32-161, and 75-31108 through 75-31120. G - For aircraft with Serial Numbers 76-30797 and up, 76-32-162 and up, and 76-31121 and up.					

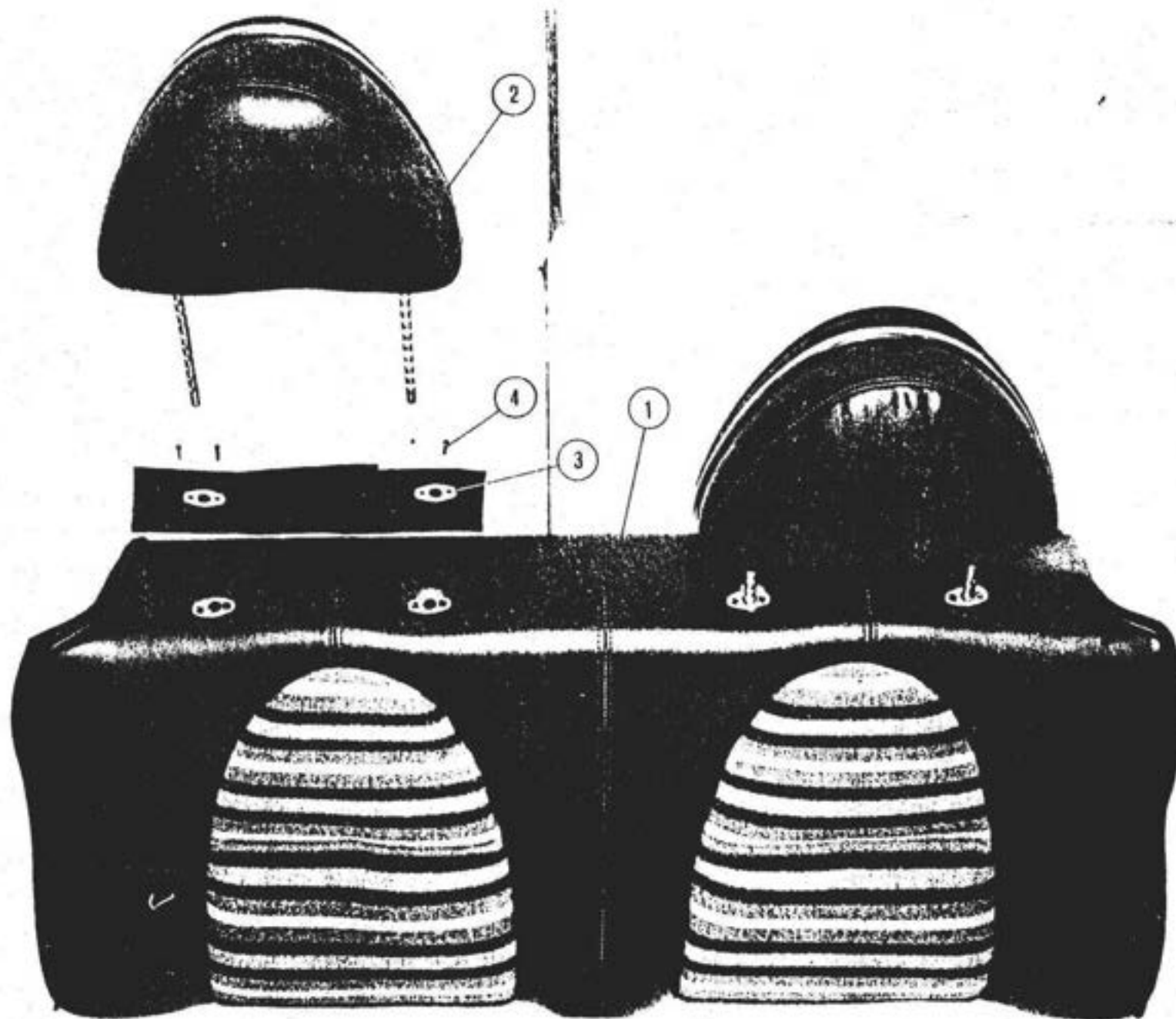


FIGURE 28.3 SEAT BACK - REAR SEAT

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FIGURE AND INDEX No.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
28.2-				
-40	MS16562-28	Roll Pin (Pilot Seat)	1	
-41	195632-3	Handle (Co-Pilot Seat)	1	
	197357	Handle (Alternate For 195632-3)	1	
-42	MS16562-28	Roll Pin (Co-Pilot Seat)	1	



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
28.2-				
-23	196612-7	Actuating Lever	1	
-24	AN960-10L	Washer	1	
-25	8113-10	Chrome Pull Knob	1	
-26	AN315-3R	Nut	1	
-27	AN931-3-5	Rubber Grommet	1	
-28	197471-0	Back Frame Assembly (Front Seat)	1	E,G
-29	197335-0	Back Frame Assembly (Front Seat)	1	E,F
-30	U197482-1	Hinge	1	
-31	U197482-2	Hinge	1	
	196959-40	Front Seat Assembly	-	G
	196959-60	Front Seat Assembly	-	F
-32	198004-135	Bushing	2	
-33	24-10A	Clevis Bolt	2	
-34	AN960-416L	Washer	2	
-35	AN960-516L	Washer	2	
-36	MS20365-428	Nut	2	
-37	AN6-5A	Bolt	2	
-38	AN316-6R	Nut	2	
	198004-92	Bushing	2	D
-39	195632-3	Handle (Pilot Seat).....	1	
	197357	Handle (Alternate For 195632-3).....	1	
CONTINUED ON NEXT PAGE				
D-This part is not shown in the drawing				
E-All parts to this assembly are not listed. and up, 76-32-162 and up, and 76-31121 and up.				
G-For aircraft with Serial Numbers 75-30727 through 75-30796, 75-32-145 through 75-32-161, and 75-31108 through 75-31120.				



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
28.2-	197334-10	FRONT SEAT HARDWARE ACTUATING MECHANISM Frame Assembly, Front Seat	1R/1L	
- 1	197334-1	Tube	2	
- 2	197334-2	Tube	2	
- 3	197334-4	Shaft	1	
- 4	197334-5	C a m	2	
- 5	197350	Spring	2	
- 6	MS16562-28	Roll Pin	2	
	197334-7	Guard	1L	D
	197334-8	Guard	1R	D
- 7	197354	Seat Rail	2	
- 8	MS16562-44	Roll	2	
- 9	U197481-1	Hinge	2	
-10	197334-11	Rod	1	
-11	197334-12	Rod	2	
-12	19682	Bushing	4	
-13	19681-1	Roller	8	
	196612	Seat Actuating Mechanism Assembly	1	
-14	196615-1	Spring	1	
-15	AN4-10A	Bolt	1	
-16	AN960-416L	Washer	4	
-17	198004-44	Bushing	1	
-18	198004-43	Bushing	1	
-19	196612-8	Actuating Pin	2	
-20	196612-20	Actuating Arm Assembly	1	
-21	AN380-2-2	Cotter	3	
-22	AN365-428		1	
CONTINUED ON NEXT PAGE				
D - This part is not shown in the drawing.				

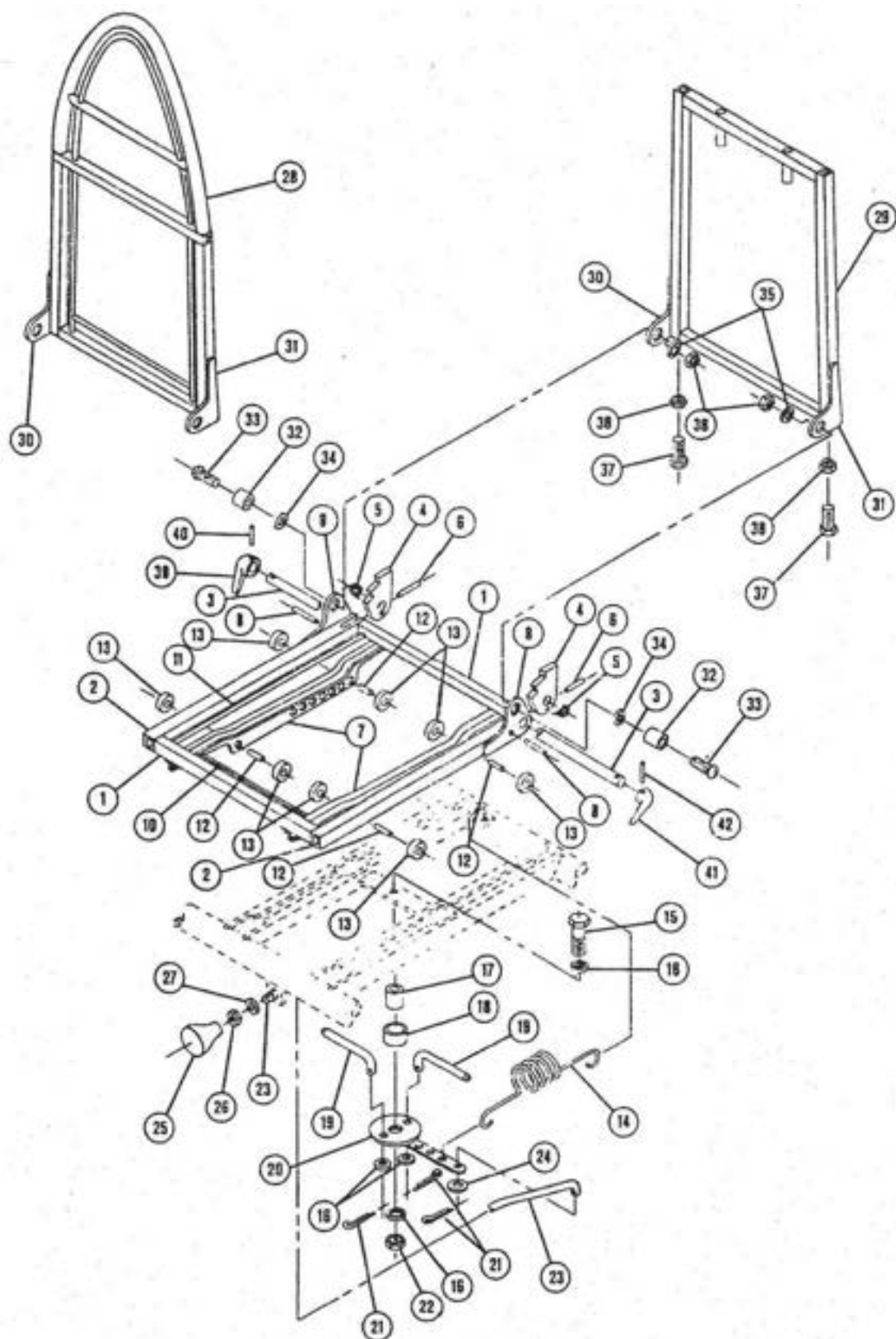


FIGURE 28.2 FRONT SEAT HARDWARE & ACTUATING MECHANISM

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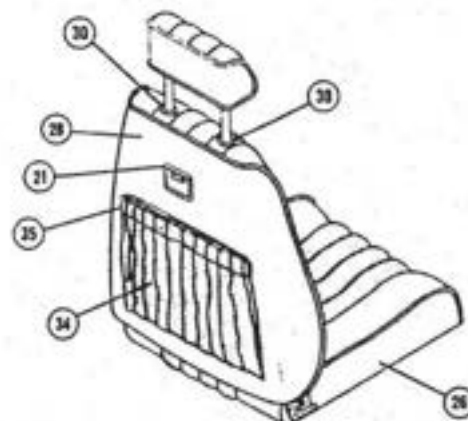
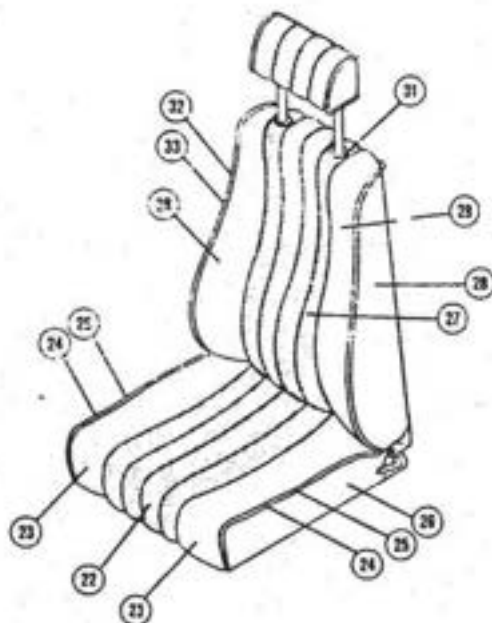
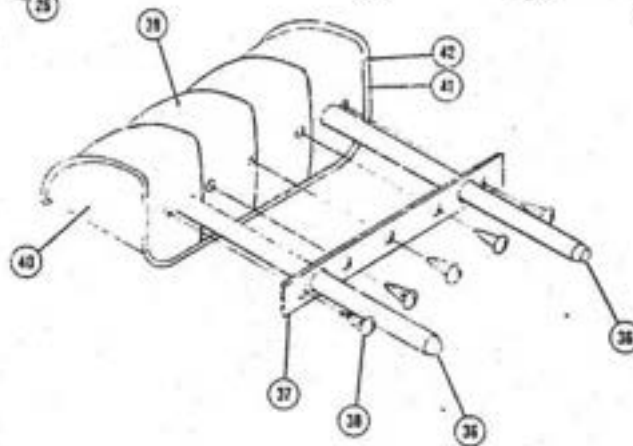
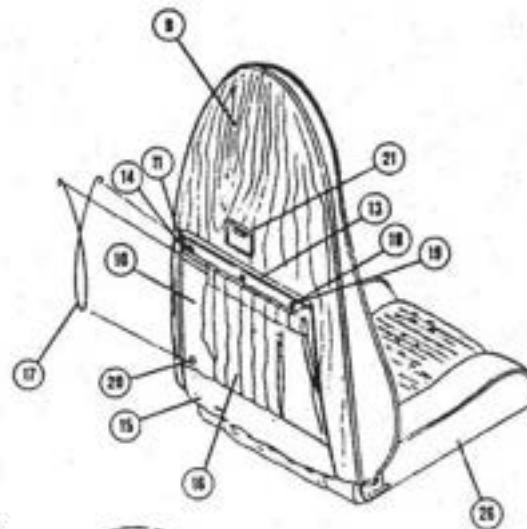
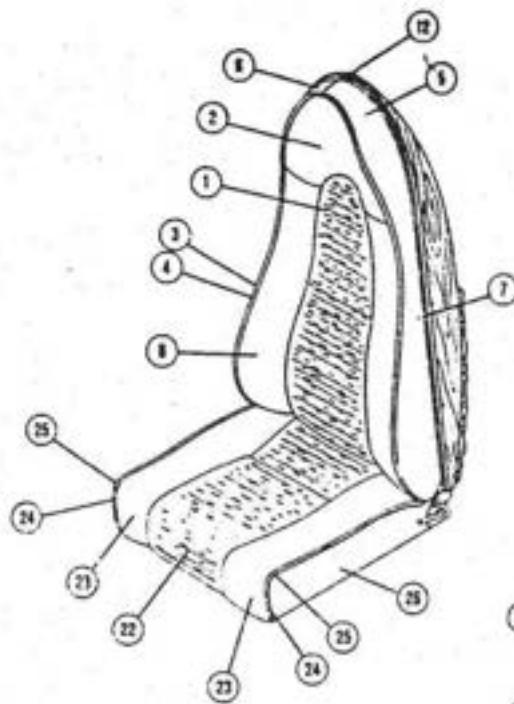
FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
28.1-				
-38	No. 6 x 3/4	Screw	5	E
-39	197497-5	Fabric	1	E
-40	197497-6	Naugahyde	1	E
-41	197497-7	Naugahyde	1	E
-42	197497-8	Welt Cord	1	E
E - For aircraft with Serial Numbers 76-30797 and up, 76-32-162 and up and 76-31121 and up.				



FIGURE AND INDEX NO,	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
28.1-				
-19	A601-6	Trim Washer	3	D
-20	1202	Fastener	2	D
-21	2A20580	Ash Tray	1	
	A1777-6Z-1	Nut, Tinnerman	2	
	6 x 1/2	Screw	2	
	196959-50	Seat Bottom Assembly	1	
-22	196959-21	Fabric	1	
-23	196959-38	Naugahyde	1R/1L	
-24	196959-39	Welt Cord	2	
-25	196959-41	Naugahyde	2	
-26	196959-42	Naugahyde	1R/1L	
	206261-0	Seat Back Assembly	1	E
-27	196959-21	Fabric	1	E
-28	206261-1	Naugahyde	1	E
-29	206261-3	Naugahyde	1R/1L	E
-30	197338-3	Trim	2	E
-31	No. 6 x 1/2	Oval Head Screw	4	E
-32	196959-23	Welt Cord	1	
-33	196959-24	Naugahyde	1	
-34	196959-31	Fabric	1	
-35	196959-32	Elastic	1	E
	197497-0	Head Rest Assembly	1R/1L	E
-36	197338-12	Rod	2	E
-37	197338-6	Trim	1	E
		CONTINUED ON NEXT PAGE		
		D - For aircraft with Serial Numbers 75-30727 through 75-30796, 75-32-145 through 75-32-161 and 75-31108 through 75-31120.		
		E - For aircraft with Serial Numbers 76-30797 and up, 76-32-162 and up, and		



FIGURE AND INDEX NO,	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
28.1-		FRONT SEAT UPHOLSTERY		
	196959-60	Front Seat Assembly	1R/1L	E
	196959-40	Front Seat Assembly	1R/IL	D
	196959-30	Seat, Back, Assembly	1	D
- 1	196959-51	Fabric	1	D
- 2	196959-52	Naugahyde	1	D
- 3	196959-53	Welt Cord	1	D
- 4	196959-54	Naugahyde	1	D
- 5	196959-55	Naugahyde	1	D
- 6	196959-56.	Naugahyde	1	D
- 7	196959-57	Naugahyde	1	D
- 8	196959-58	Naugahyde	1	D
	197484-0	Molding Assembly	1	D
- 9	197470-1	Molding	1	D
-10	197484-1	Panel	1	D
-11	197484-2	Angle	1	D
-12	197484-3	Trim	1	D
-13	197484-4	Trim	1	D
-14	197484-5	Trim - Rubber	1	D
-15	197484-7	Fabric	1	D
-16	197484-8	Fabric	1	D
-17	197483-1	Spring	2	D
-18	No. 6 x 1	Screw	3	D
		CONTINUED ON NEXT PAGE		
		D - For aircraft with Serial Numbers 75-30727 through 75-30796, 75-32-145 through 75-32-161, and 75-31108 through 75-31120.		
		E - For aircraft with Serial Numbers 76-30797 and up, 76-32-162 and up, and 76-31121 and up.		



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27.2-		BAGGAGE COMPARTMENT		
- 1	196608-290	Panel	1	
- 2	196608-280	Panel, R/H	1	
- 3	206150-1	Cover	1	
- 4	4 x 3/8	Screw	8	
5	196608-300	Panel,L / H	1	
- 6	206185-0	Flap, Upholstery	1	
- 7	196728	Bar	1	
- 8	196771-1	Cover, Bar Upholstery	1	
- 9	AN505-8-22	Screw	1	
-10	196533-1	Washer	1	
-11	AN970-3	Washer	1	
-12	MS20365-832	Nut	1	
-13	SB404	Eye Bolt	2	
-14	AN960-716L	Washer	2	
-15	MS20364-720	Nut	2	
-16	AN520-IOR24	Screw	2	
-17	AN960-10L	Washer	4	
-18	MS20365-1032	Nut	2	
-19	SB404	Eye Bolt	2	
-20	198004-151	Bushing	2	
-21	206176-0	Cargo Net	1	

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FIGURE AND INDEX NO .	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
27.1-		BAGGAGE COMPARTMENT			
- 1	196608-270	Baggage Compartment	1		
- 2	6 x 3/4	Screw	7		
- 3	A601-6	Trim Washer	11		
- 4	6 x 1/2		4		
5	A1777-623	Tinnerman Nut	4		
- 6	190365-1	Support Bar	1		
- 7	196608-310	Floor Assembly_	1		
- 8	196997-1	Door Sill	1		
- 9	6 x 3/4	Screw, S.M	5		

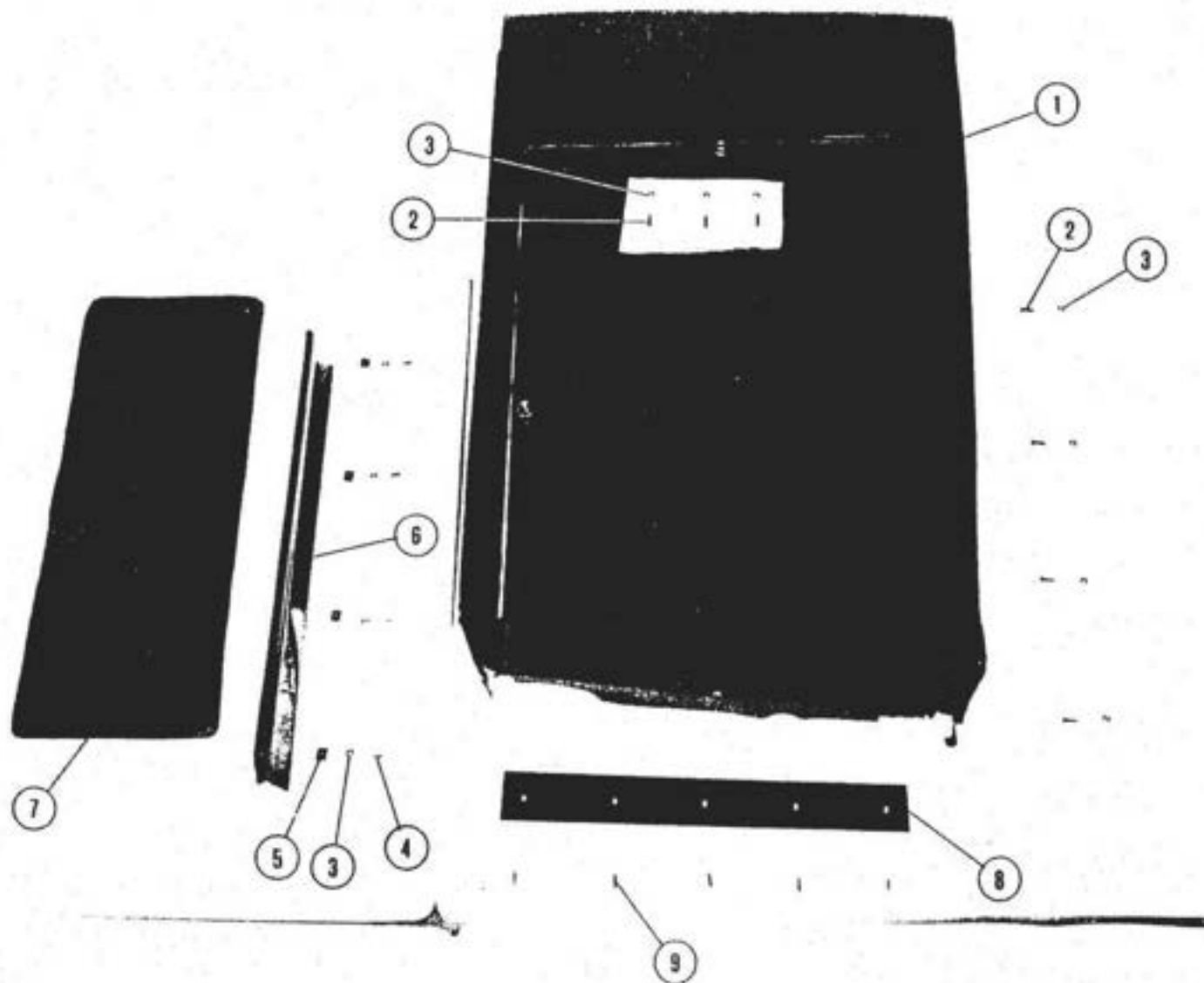


FIGURE 27.1 BAGGAGE COMPARTMENT

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
26.3-		CABIN FLOOR UPHOLSTERY		
- 1	196608-340	Carpet - Front	1	
- 2	196608-350	Carpet - Under Seat	1	
- 3	196608-330	Carpet - Rear	1	

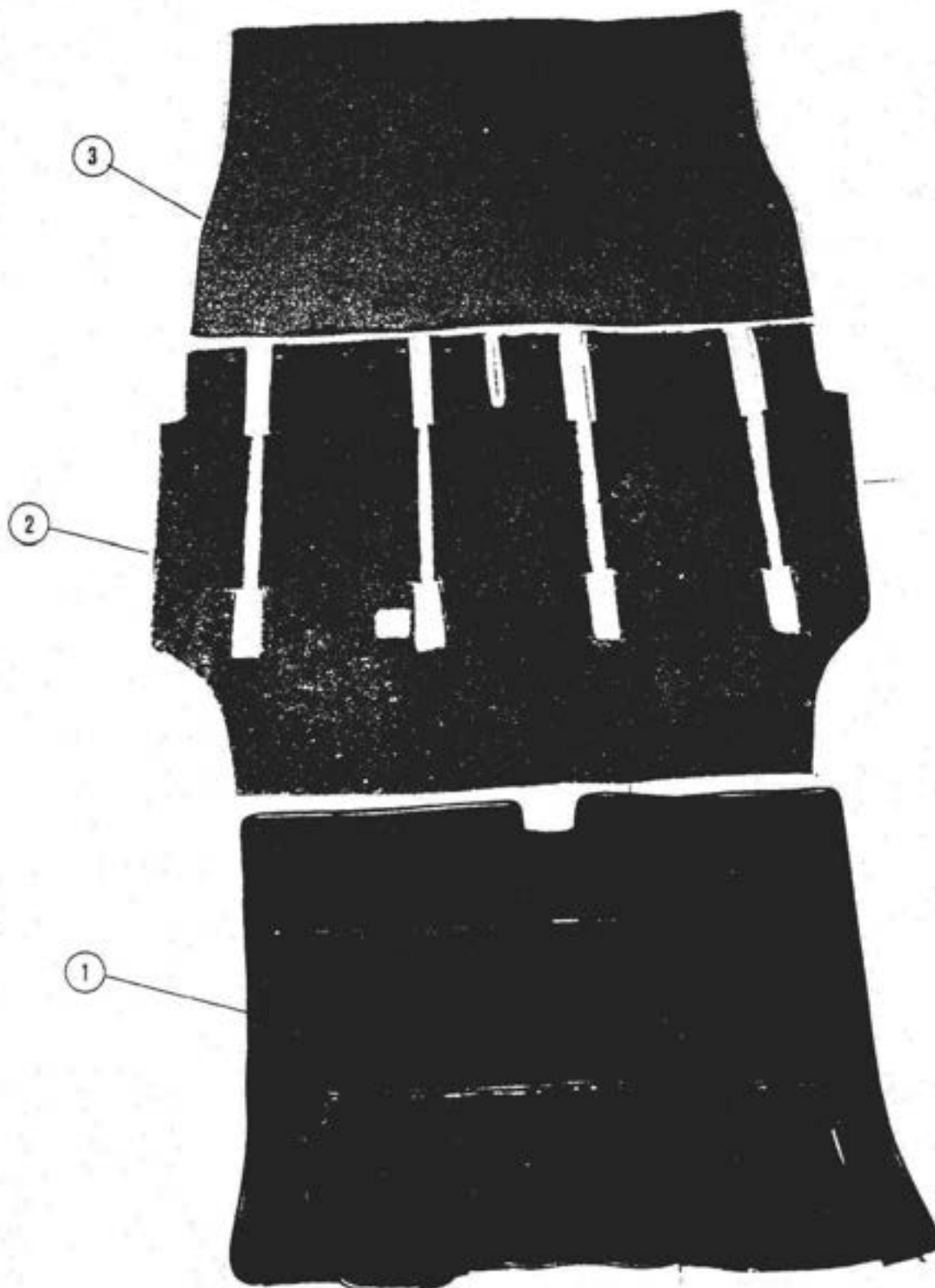


FIGURE 26,3 CABIN FLOOR UPHOLSTERY

BELLANCA**Illustrated Parts Catalog**

FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
26.2		CABIN FLOORBOARDS - AFT			
	206134	Installation - Rear Floorboards			
- 1	196622	Toe Plate	1		
- 2	AN526-8-8	Screw, Toe Plate Attach	2		
- 3	MS20365-832	Nut	2		
- 4	No. 6 x 3/8	Screw	12		
- 5	206133-20	Floorboard	1		
- 6	206133-10	Floorboard	1		
- 7	206133-0	Floorboard	1		
- 8	AN531-8-16	Screw, Floorboard Attach	13		
- 9	196533-1	Washer	13		
-10	A1787-82-3	Tinnerman Nut	13		

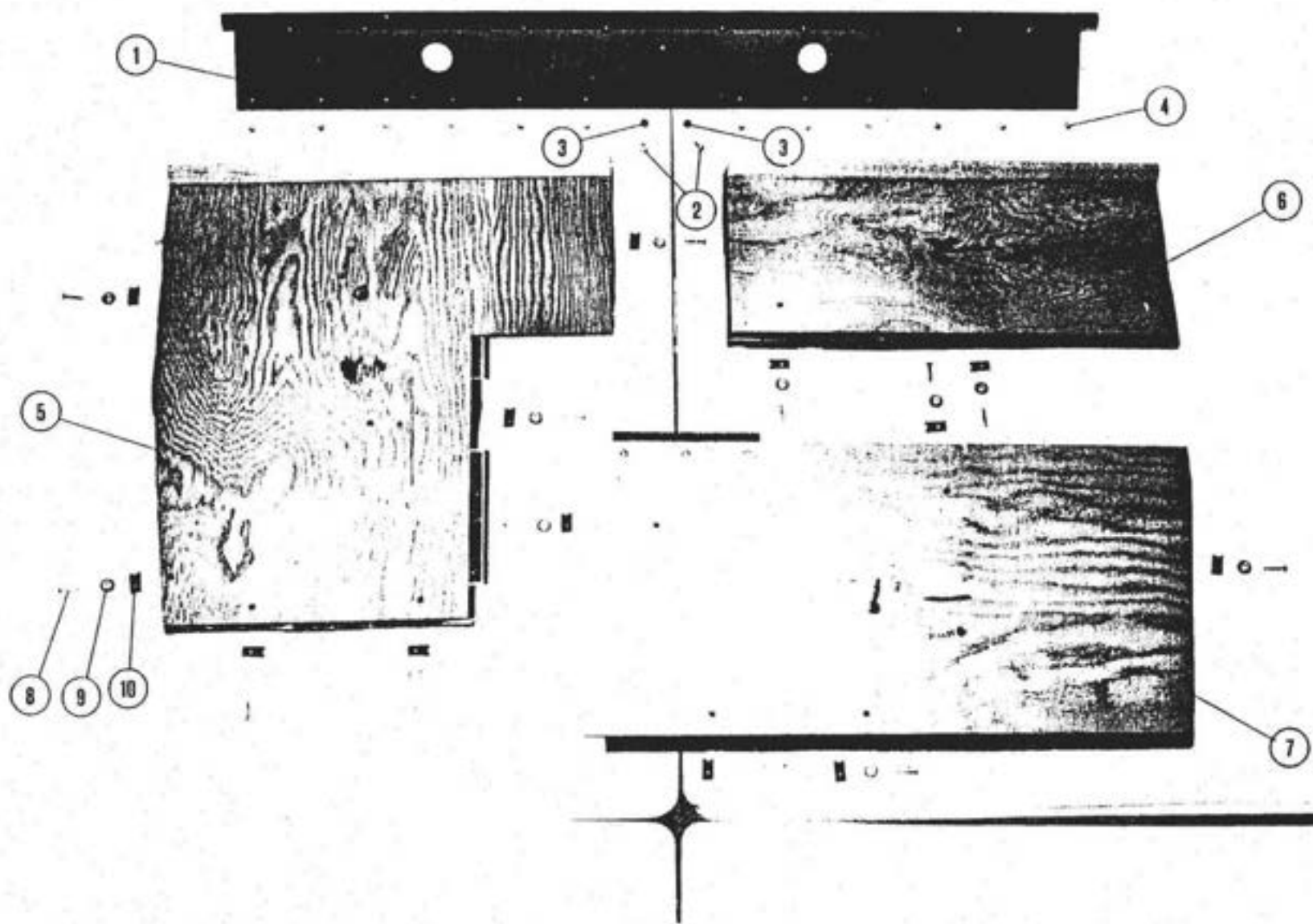


FIGURE 26.2 CABIN FLOOR BOARDS - AFT

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	FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
	26.1-		CABIN FLOORBOARDS - FRONT		
		206148	Installation - Front Floorboards		
-	1	206147-0	Floorboard	1	
	- 2	206146-0	Heel Plate	1	
	- 3	206147-10	Floorboard	1	
	- 4	206146-10	Heel Plate	1	
	- 5	AN531-8-16	Screw	14	
	- 6	196533-1	Washer	14	
	- 7	AN1787-8Z-3	Tinnerman Nut	14	
	- 8	206045-1	Cover	1	
	- 9	No. 6 x 3/8	Screw	4	

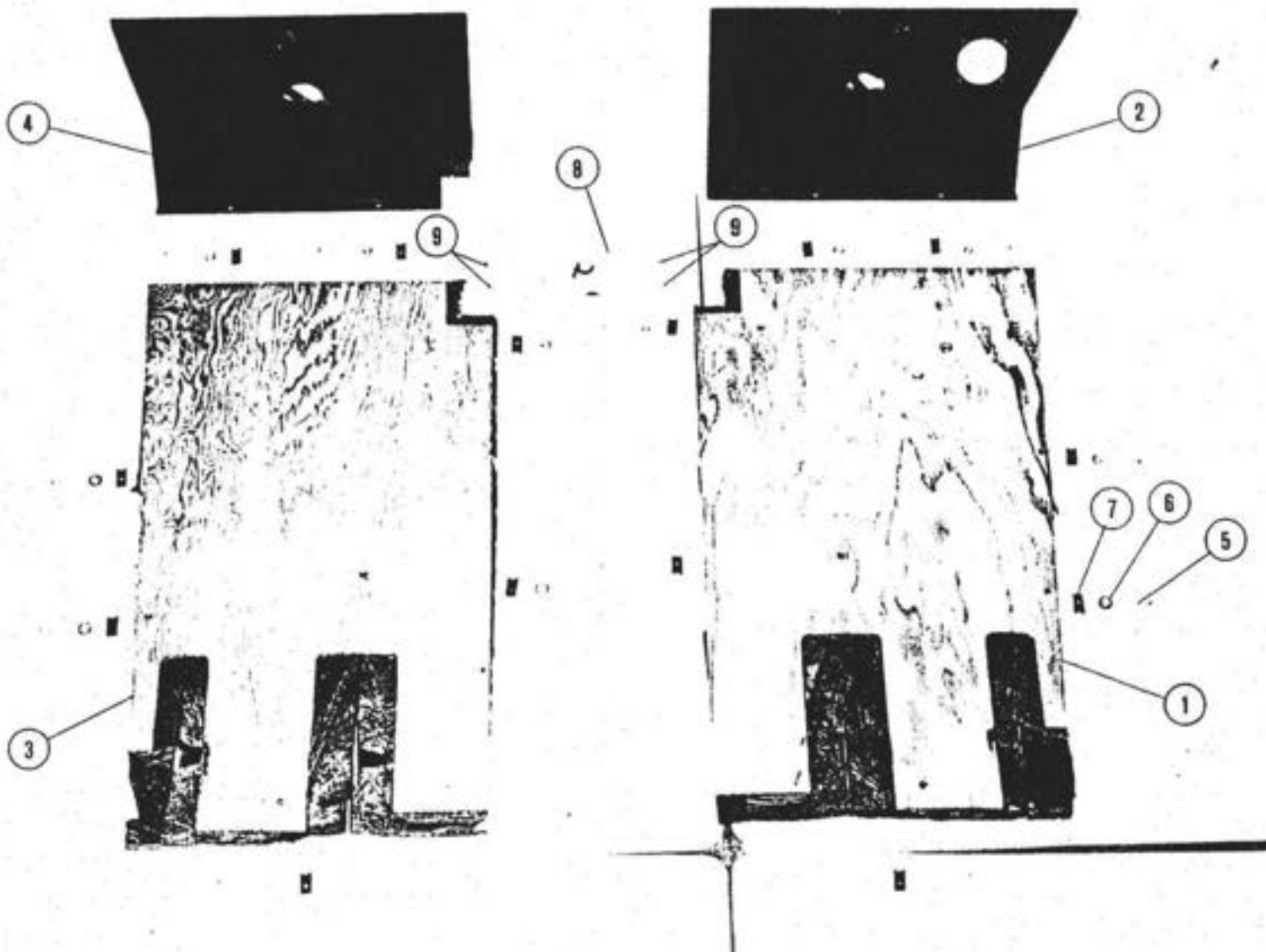


FIGURE 26.1 CABIN FLOOR BOARDS - FRONT

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	FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
	25.2-		CABIN INTERIOR - SIDE PANELS		
-	1	196961-10	Lower Left Side Panel - Upholstery	1	
	- 2	2A20580	Ash Tray	1	
		8 x 1/2	Screw	2	
		A1778-8Z-1	Tinnerman Nut	2	
	3	196585-90	Air Vent..	1	
	- 4	196964-3	Arm	1	
	- 5	196964-1	Arm	1	
	- 6	206235-1	Panel	1	
	- 7	196961-33	Metal Trim	1	
	- 8	196961-32	Metal	1	
	- 9	196962-30	Lower Right Side Panel - Upholstery.	1	
	-10	196585-90	Air Vent	1	
	-11	196964-2	Arm Rest	1	
	-12	206235-2	Panel	1	
	-13	196962-33	Metal Trim	1	
	-14	206144-40	Kick Panel, R/H	1	
	-15	206144-30	Kick Panel, L/H	1	

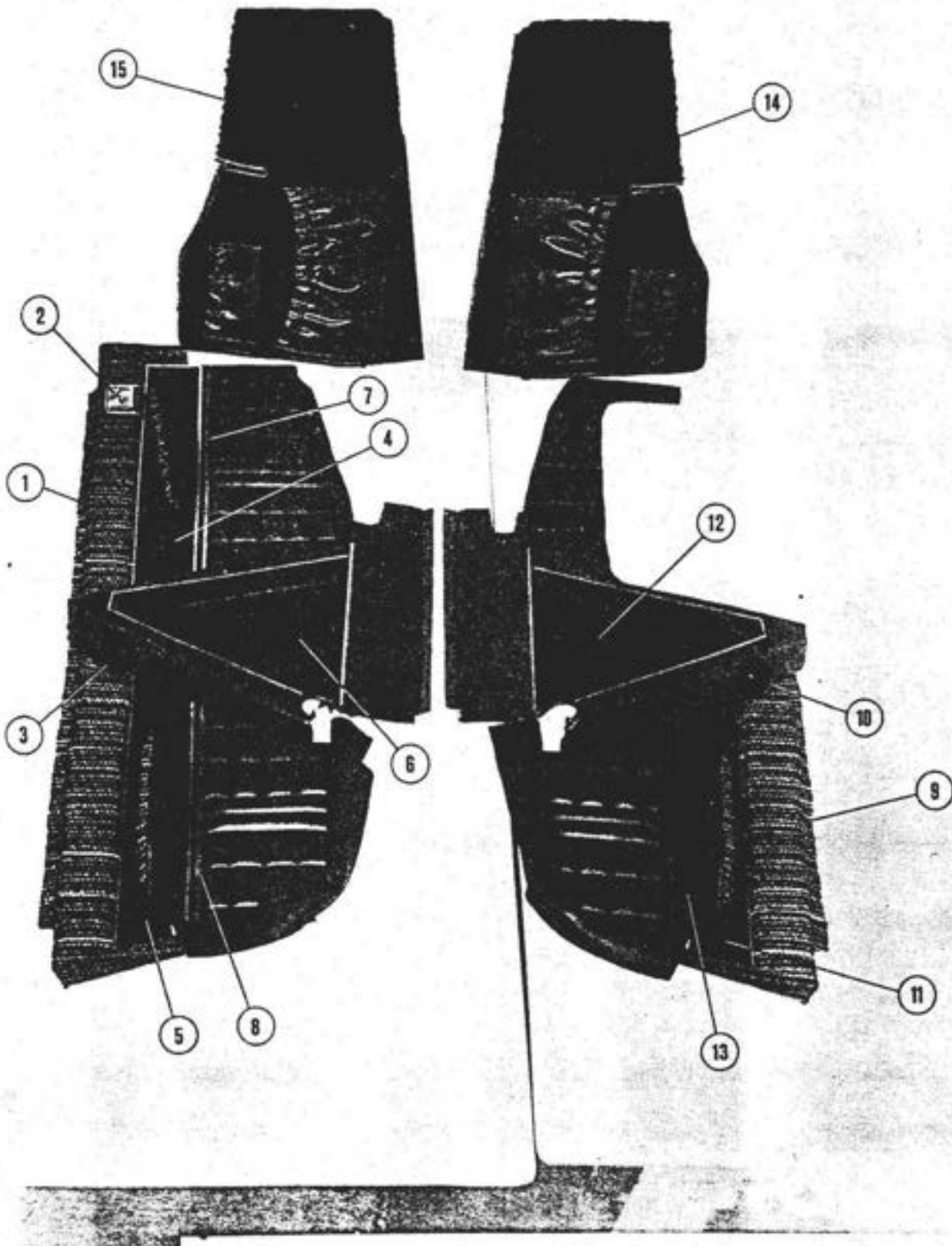


FIGURE 25.2 CABIN INTERIOR - SIDE PANELS

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
25.1-		CABIN INTERIOR - HEADLINER		
- 1	206241-0	Panel Assembly - Left, Forward	1	
- 2	206241-20	Panel Assembly - Left, Center	1	
- 3	206241-40	Panel Assembly - Left, Rear	1	
- 4	206241-50	Panel Assembly - Right, Rear	1	
- 5	206241-30	Panel Assembly - Right, Center	1	
- 6	206241-10	Panel Assembly - Right, Forward	1	
- 7	206228-0	Panel Assembly - Center, Rear	1	
- 8	206227-0	Panel Assembly - Center, Middle	1	
- 9	206229-1	Panel Assembly - Center, Forward	1	
-10	B3550	Dome Light	2	
-11	AN515-4R10	Screw	4	
	AN960-4L	Washer	4	
	AN365-440	Nut	4	
-12	1847	Map Light	2	
	AN505-8R8	Screw	8	
	AN960-8L	Washer	8	
	AN365-832	Nut	8	
-13	57GU8W	Speaker	1	
	AN507-10R12	Screw	4	
	AN960-10L	Washer	4	
	AN365-1032	Nut	4	

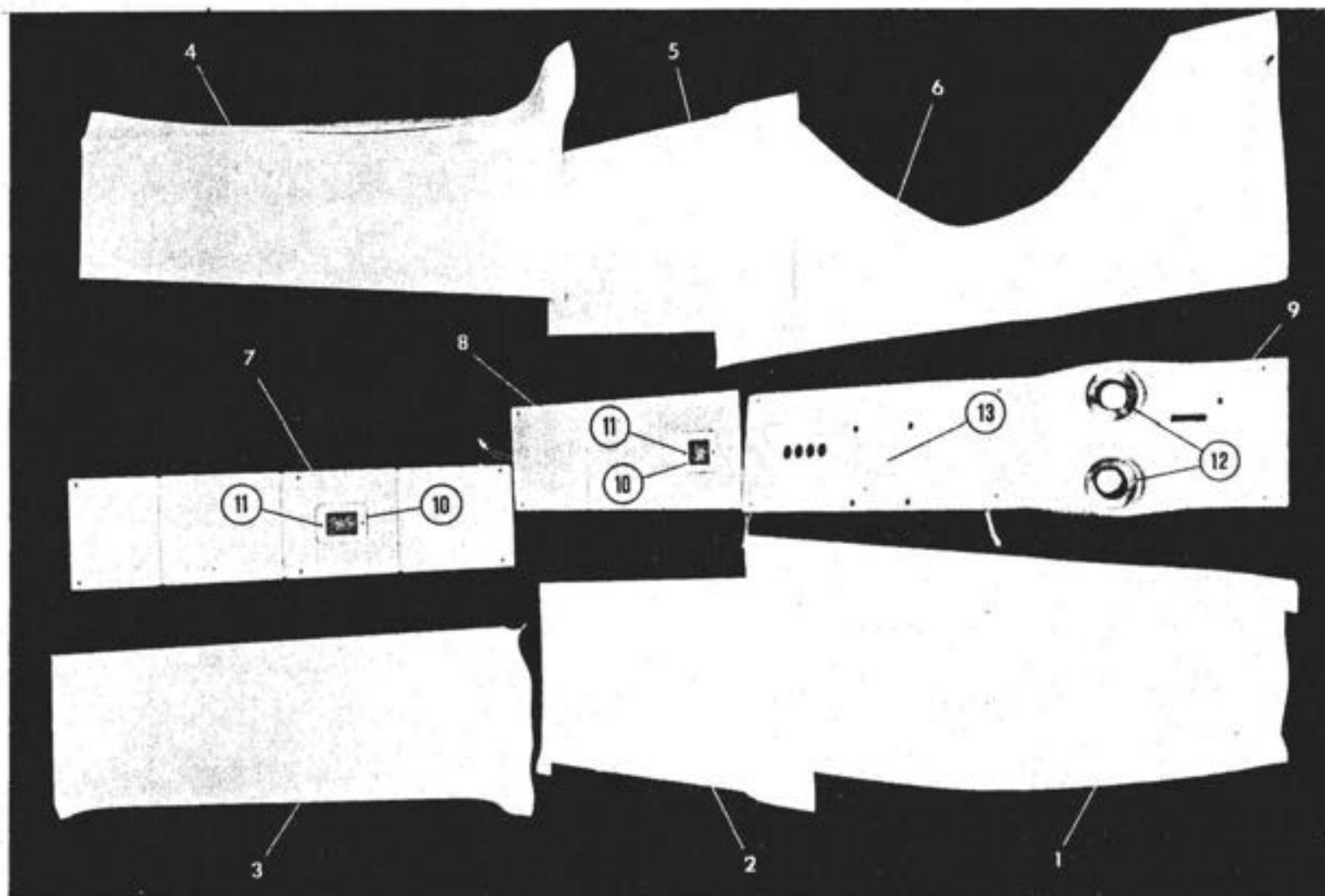


FIGURE 25.1 CABIN INTERIOR - HEADLINER

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
24-		LANDING LIGHT OPENING PARTS		
- 1	192508-14A	Nose Rib - Station No. 8 (See Figure 23)		
- 2	192503-34	Cover	1	
- 3	192506-17	Saddle	2	
- 4	192503-45	Support, Left Hand	1	
	192503-57	Support, Right Hand	1	
- 5	192503-66	Support	1	
- 6	192503-44	Filler	1	
- 7	192503-51	Support, Left Hand	1	
	192503-59	Support, Right	1	
- 8	192503-49	Support, Left Hand	1	
	192503-58	Support, Right	1	
- 9	192503-37	Gluing Strip	1	
-10	192503-46	Corner	1	
-11	192503-22	Corner	2	
-12	192503-35	Cover	1	
-13	19215-14	Nose Rib - Station 9	1	
-14				D
		D - This part is shown in the illustration and intentionally removed from the Parts List.		

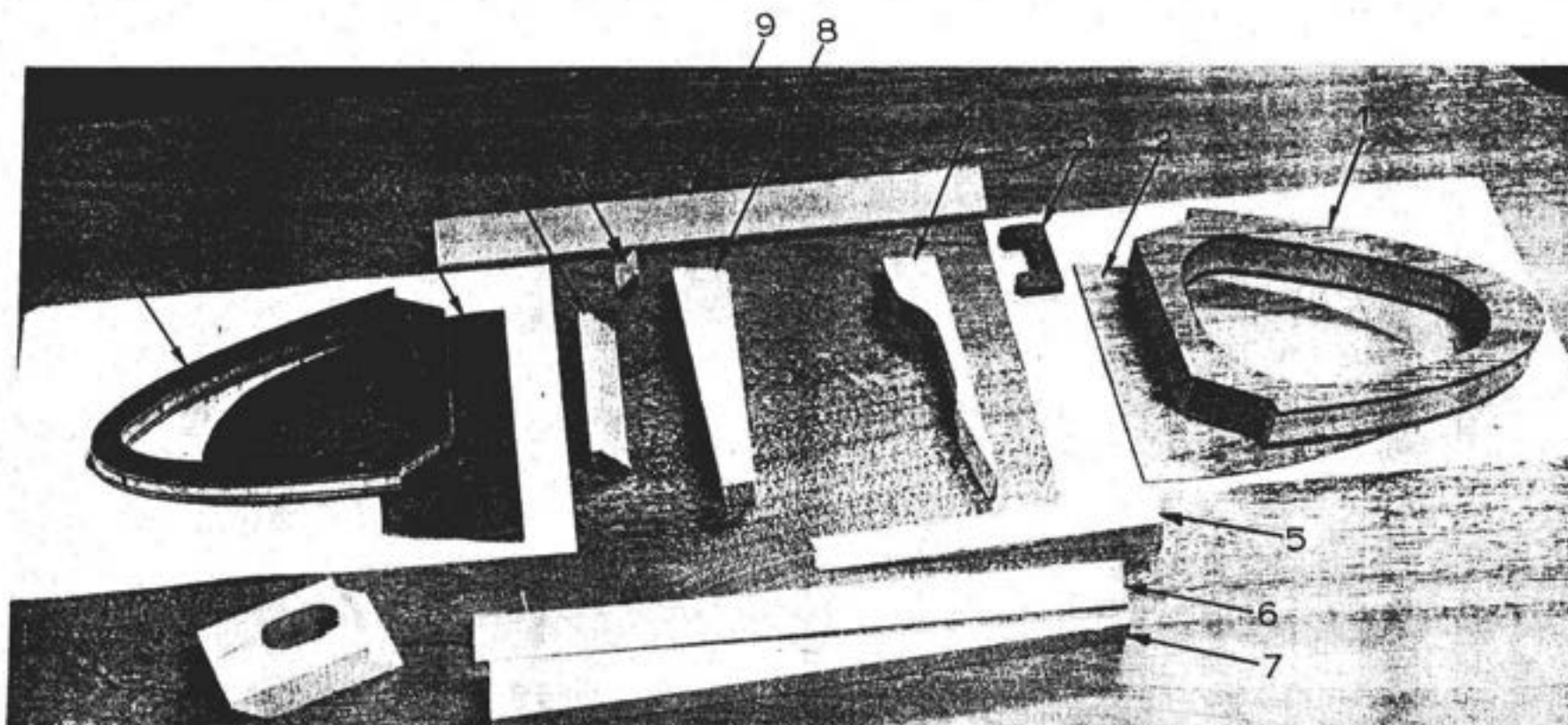


FIGURE 24. LANDING LIGHT OPENING PARTS

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
23-		FRONT SPAR LEADING EDGE RIBS		
- 1	192504-17	Nose Rib	1L/1R	
- 2	192505-19	Nose Rib	1L/1R	
- 3	192506-15	Nose Rib	1L/1R	
- 4	192507-13	Nose Rib	1L/1R	
- 5	192508-14A	Nose Rib, Left Wing	1	
	192508-14B	Nose Rib, Right Wing	1	
6	19217-15	Nose Rib	1L/1R	
- 7	19219-14	Nose Rib	1L/1R	
- 8	19221-13	Nose Rib	1L/1R	
- 9	192503-38	Leading Edge	1L/1R	
-10	192503-13 thru			
	192503-28	Corner Blocks	A/R	D
	192503-61	Corner Block	A/R	D
	192503-62	Corner Blocks	A/R	D
	19216-14	Inboard Rib - Pitot Tube Opening		
		(Left Wing)	A/R	E
	192503-63	Batten - Pitot Tube Opening (Left Wing)	A/R	E
D - Specify inboard or outboard block and which rib used on. E - This part is not shown in the illustration.				

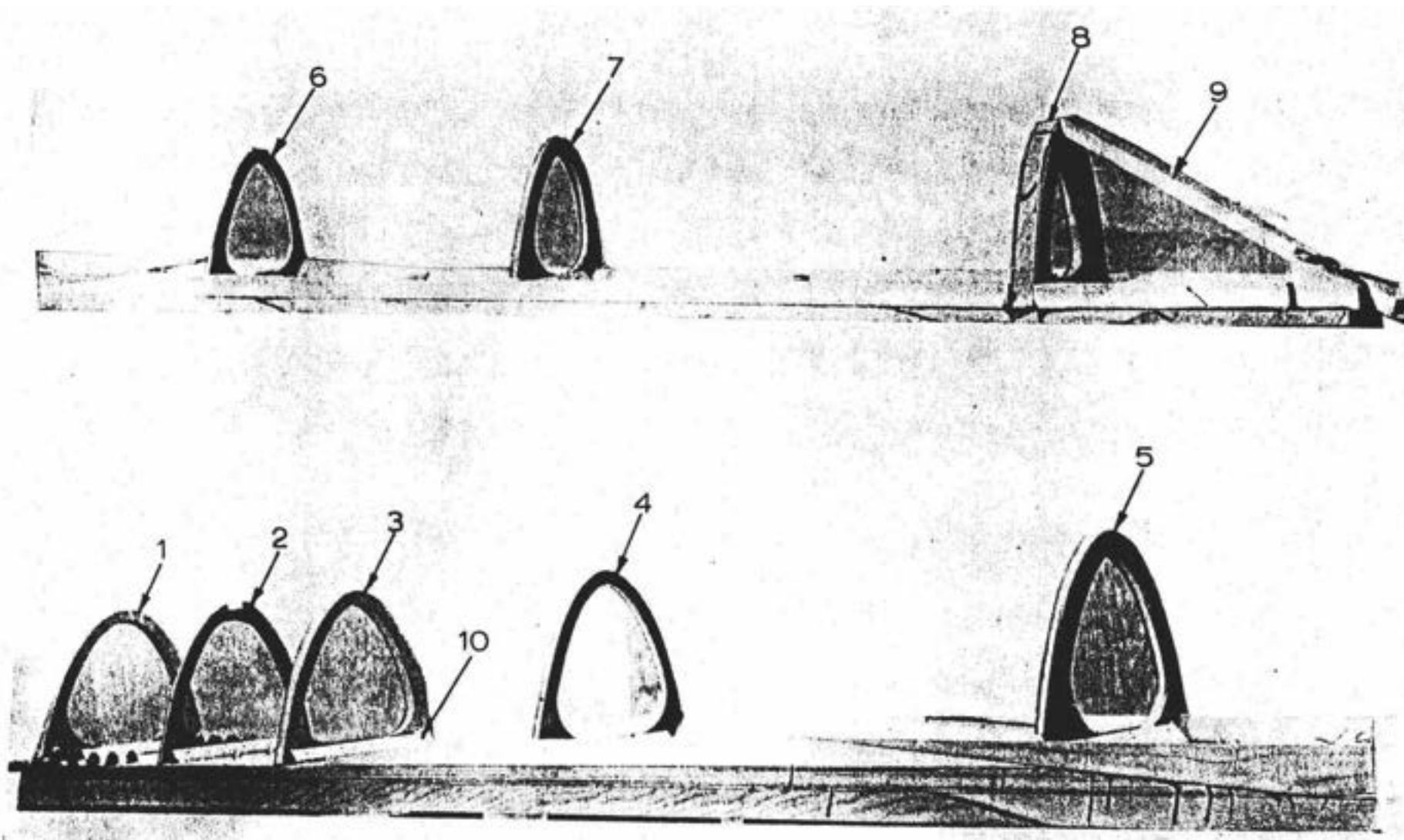


FIGURE 23. FRONT SPAR LEADING EDGE RIBS

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22-

-22	AN7-64A	Bolt	24	
-23	AN310-10	Nut	8	D
-24	AN960-01016	Washer	A/R	D
-25	AN6-41A	Bolt - Hinge Strap Mounting (Front)	8	
-26	AN960-D616	Washer	A/R	
-27	AN365-624	Nut		
-28	AN960-716	Washer	48	
-29	AN365-720	Nut	24	
-30	AN364-624	Nut	1	
-31	AN970-3	Washer	4	
-32	AN960-10	Washer	4	
-33	AN365-1032	Nut	4	
	AN380-4-5	Cotter	8	D
-34	AN6-55A	Bolt - Hinge Strap Mounting (Rear),	10	
-35	AN6-56A	Bolt - Hinge Strap Mounting (Rear)	2	
-36	AN6-60A	Bolt - Hinge Strap Mounting (Rear)	6	
-37	AN6-61A	Bolt - Hinge Strap Mounting (Rear)	2	
-38	192548	Shim - Wing Hinge Strap	A/R	
-39	AN6-40A	Bolt - Hinge Strap Mounting	7	
-40	AN6-36A	Bolt - Hinge Strap Mounting	2	
-41	AN960-616L	Washer	A/R	
-42	AN960-716L	Washer	AIR	

D - This part is not shown in the illustration.



22.-		WING HARDWARE		
- 1	192651-2	Wing Strap - Right Hand	8	
	19239	Wing Strap (Alternate For 192651-2)	8	
- 2	192651-1	Wing Strap - Left Hand	8	
	19239	Wing Strap (Alternate For 192651-1)	8	
3	19256	Ground Cable	2	
- 4	19291	Terminal	2	
- 5	194301	Bracket Assembly	2	D
- 6	194100-5	Plate	2	
- 7	194100-4	Plate	2	
- 8	194100-3	Plate	2	
- 9	194100-10	Fitting - Main Landing Gear	4	
-10	19206-3	Support - Left Hand	1	
	19206-4	Support - Right Hand	1	
-11	192528	Bracket - Pulley	1L/IR	
-12	19206-1	Support - Left Hand	2	
	19206-2	Support - Right	2	
-13	194153-10	Fitting - Drag Strut	2	
-14	194167-1	Shim - Drag Strut	A/R	
	194167-2	Shim - Drag Strut	A/R	
	194167-3	Shim - Drag Strut	A/R	
-15	AN6-35A	Bolt - Hinge Strap Mounting (Front)	8	
-16	19461	Fitting - Hydraulic Actuator	2	
-17	AN10-43	Bolt	4	D,E
-18	AN10-63	Bolt	4	D,E
-19	AN6-31A	Bolt	6	
-20	AN6-34A	Bolt - Hinge Strap Mounting (Front)	2	
-21	AN3-30A	Bolt	4	
		CONTINUED ON NEXT PAGE		
		D - This part is not shown in the illustration.		
		E - This part must be magnafluxed.		

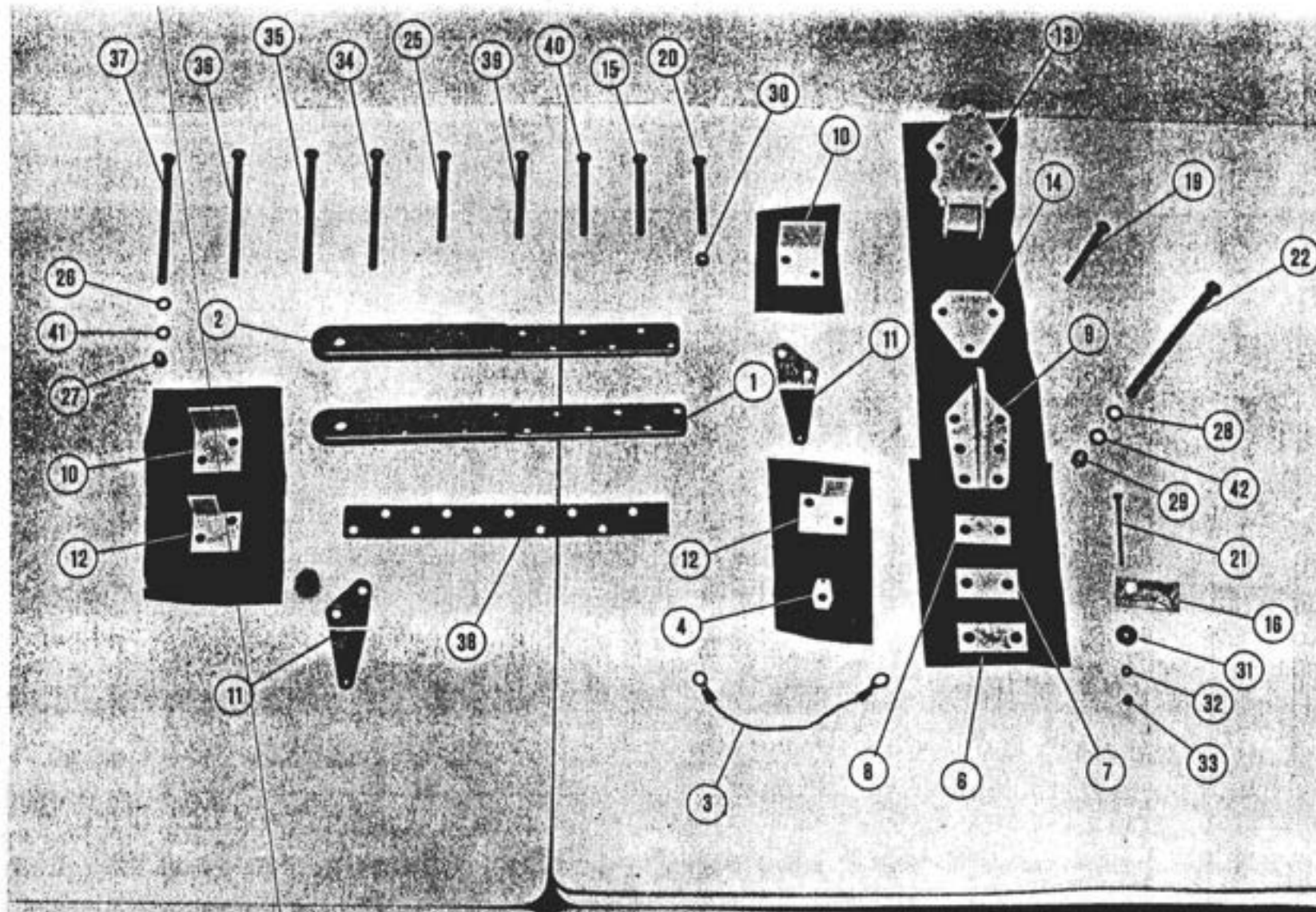


FIGURE 22. WING HARDWARE

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
21-		WING RIBS - STATIONS 13, 14, 15 AND END CAP (16)		
- 1	19222	End Cap Rib - Station No. 16	1L/1R	
- 2	19221	Rib - Station No. 15	1	
- 3	19220	Rib - Station No. 14	1	
- 4	19219	Rib - Station No	1	
- 5	19225-1	Tail Rib - Outboard End	1	
- 6	19220-14	Tail Rib - Station No. 14	1	
- 7	19219-13	Tail Rib - Station No. 13	1	
- 8	19226	False Spar - Tail Edge	1	
- 9	192500-87	Skin - Outboard Center	1	
-10	192500-21	Trailing Edge	1	
-11	192500-17	Corner Block	A/R	
-12	192500-55	Top Capstrip Reinforcement	2	
	192500-58	Bottom Capstrip Reinforcement	2	D
-13	192500-55	Top Capstrip Reinforcement	1	
	192500-58	Bottom Capstrip Reinforcement	1	D
-14	192500-11	Gluing Strip	1	
-15	192500-34	Gluing Strip	1	
	192500-117	Gluing Strip	1	D
-16	192500-88	Top Tip Skin	1L/1R	
	192500-94	Bottom Tip Skin	1L/1R	D
-17	192503-43	Leading Edge Tip Skin	1L/1R	
D - This part is not shown in the illustration.				

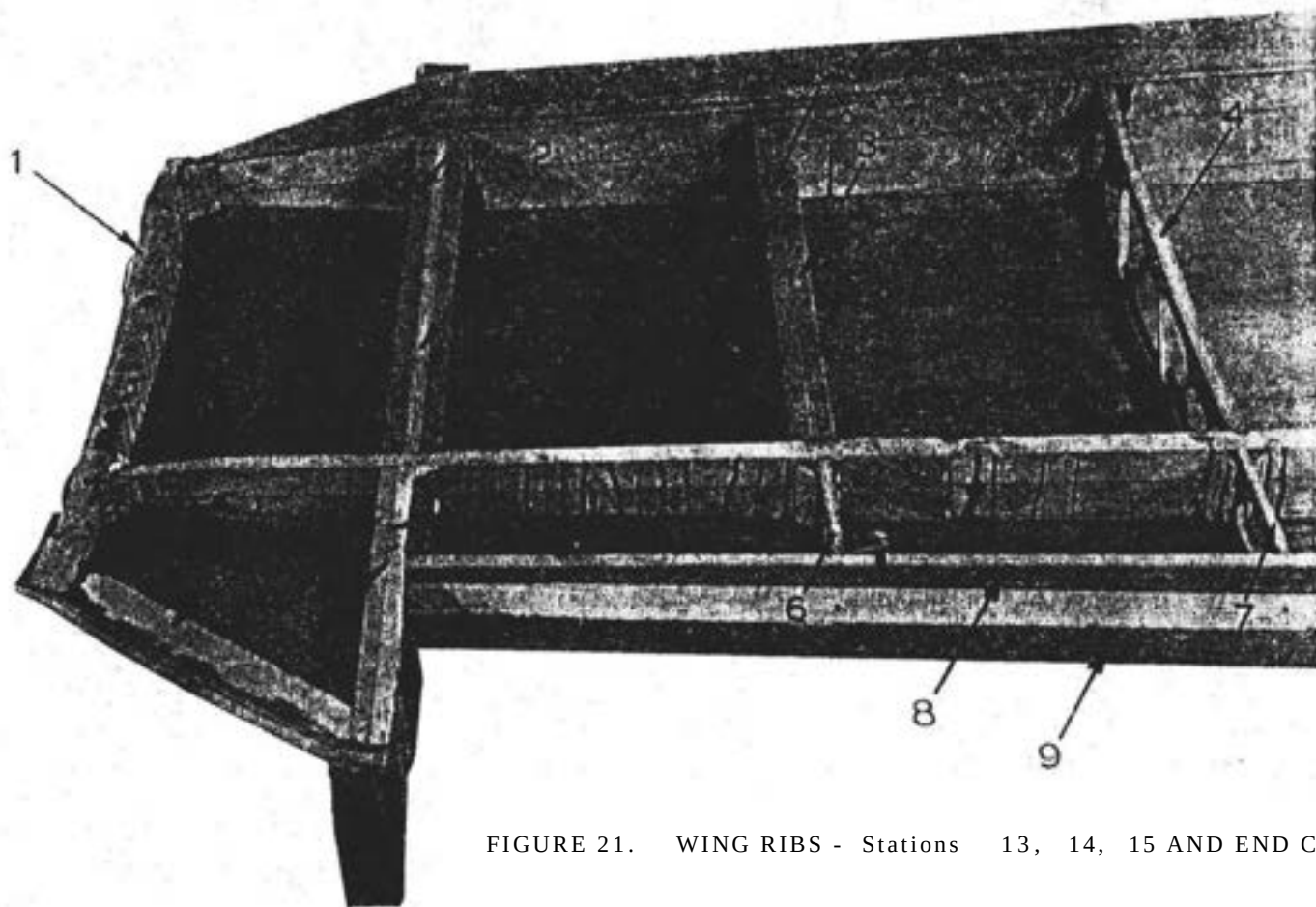
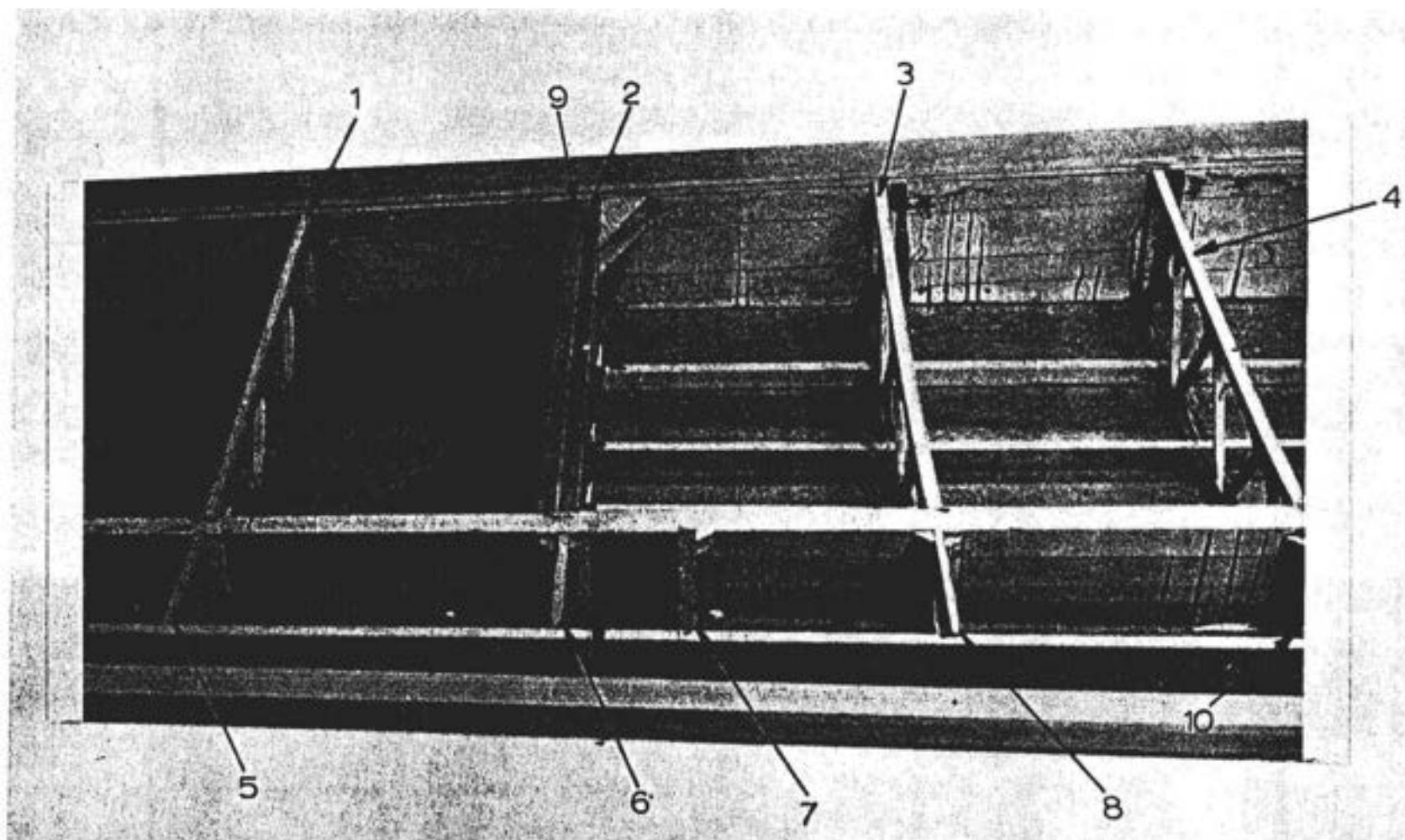


FIGURE 21. WING RIBS - Stations 13, 14, 15 AND END CAP (16)

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
20-		WING RIBS-STATIONS 9, 10, 11 AND 12		
- 1	19218	Rib - Station No. 12	1	
- 2	19217	Rib Station No. 11	1	
- 3	19216	Rib - Station No. 10	1	
- 4	19215	Rib - Station No. 9	1	
- 5	19218-13	Tail Rib - Station No. 12	1	
- 6	19217-14	Tail Rib - Station No. 11	1	
- 7	192500-33	Gluing Strip	1	
- 8	19216-13	Tail Rib - Station No. 10	1	
- 9	192500-51	Top Capstrip Reinforcement	1	
	192500-52	Bottom Capstrip Reinforcement	1	D
-10	19215-13	Tail Rib - Station No. 9	1	
D - This part is not shown in the illustration.				



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FIGURE 20. WING RIBS - STATIONS 9, 10, 11 AND 12

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
19-		WING RIBS - STATIONS 5, 6, 7 AND 8		
- 1	192508	Rib - Station No. 8	1	
- 2	19213	Rib - Station No. 7	1	
- 3	192507	Rib - Station No. 6	1	
- 4	19211	Rib - Station No. 5 (See Figure 18)	-	
- 5	192500-49	Top Capstrip Reinforcement (See Figure 18)	-	
- 6	192500-70	Top Skin Support	1	
	192500-71	Top Skin Support	1	
	192500-72	Top Skin Support	1	
- 7	19225-17	Top Cover Reinforcement	1	
- 8	19225-8A	Tail Rib	1	
- 9	192508-15	Tail Rib - Station No. 8	1	
-10	19213-13	Tail Rib - Station No. 7	1	
-11	192507-14	Tail Rib - Station No. 6	1	
-12	19211-13	Tail Rib - Station No. 5	1	
-13	192723-10	Inboard Fuel Tank - Right Wing	1	
	192723-0	Inboard Fuel Tank - Left Wing	1	
	192688-10	Outboard Fuel Tank - Right Wing	1	
	192688-0	Outboard Fuel Tank - Left Wing	1	
-14	192500-98	Capstrip Reinforcement	1	
-15	192500-98	Capstrip Reinforcement (See Figure 18)	-	
-16	192500-51	Top Capstrip Reinforcement	2	
	192500-52	Bottom Capstrip Reinforcement	2	
-17	192506	Rib - Station No. 4 (See Figure 18)	-	

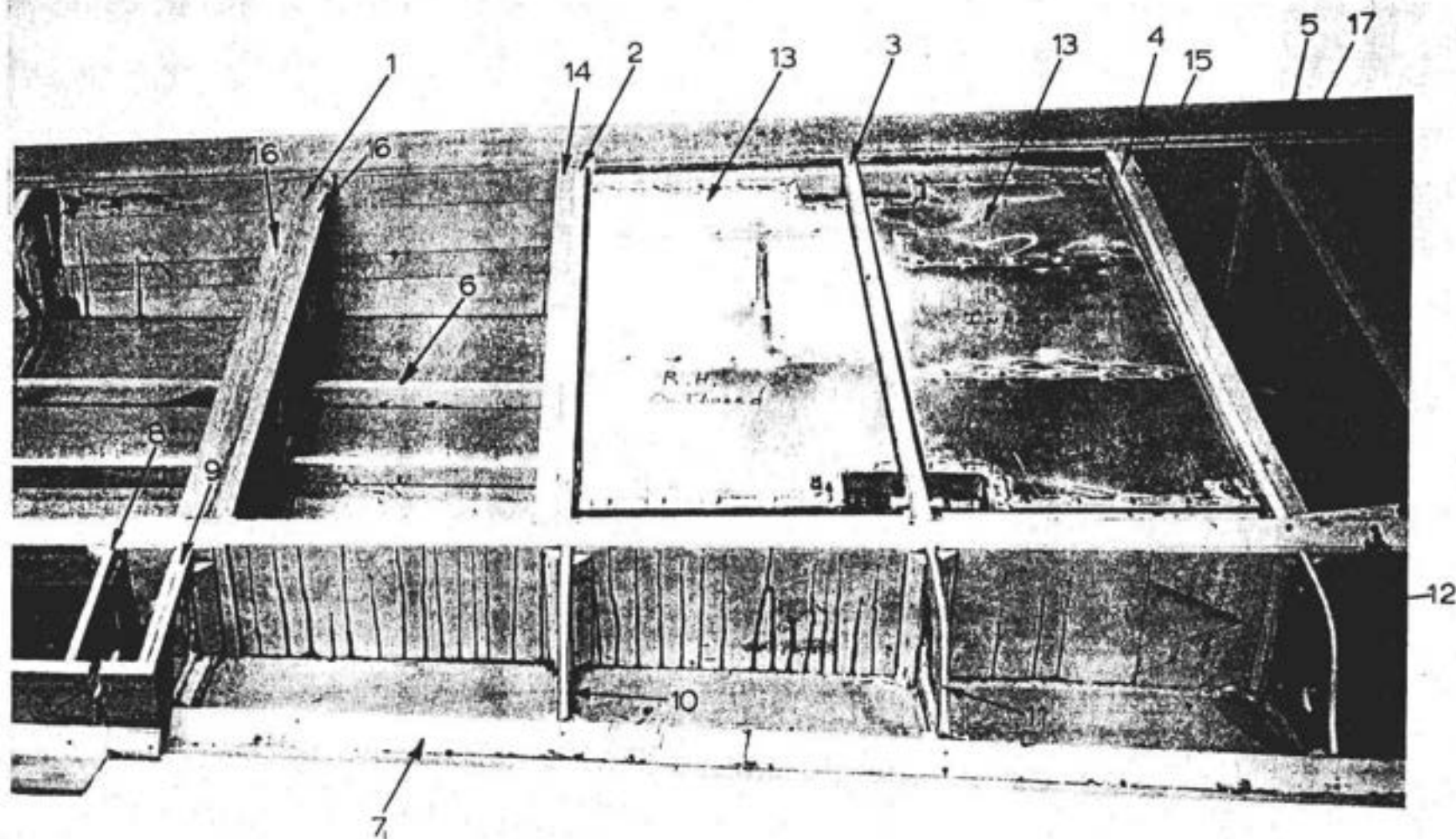


FIGURE 19 WING RIBS .. STATIONS 5,6, 7, and 8

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
18-		WING - FRONT SPAR TO TRAILING EDGE - RIB STATIONS 1, 3, 4 AND 5		
- 1	192500-85	Skin - Top Inboard Trailing Edge (Left Wing)	1	
	192500-89	Skin - Bottom Inboard Trailing Edge (Left Wing)	1L/1R	D
	192500-107	Skin - Top Inboard Trailing Edge (Right Wing)	1	D
- 2	19225	Rear Spar Assembly	1	
- 3	192503-42	Leading Edge Skin	1	
- 4	192500-98 •	Capstrip Reinforcement	1	
- 5	192506	Rib - Station No. 4	1	
- 6	192505	Rib - Station No. 3	1	
- 7	192504	Rib - Station No. 1	1	
- 8	192506-16	Tail Rib - Station No. 4	1	
- 9	19211	Rib - Station No. 5	1	
-10	192500-49	Top Capstrip Reinforcement	1	
	192500-111	Bottom Capstrip Reinforcement	1	
-11	192500-49	Top Capstrip Reinforcement	1	
	192500-50	Bottom Capstrip Reinforcement	1	D
D - <i>T h i s</i> part is not shown in the illustration.				

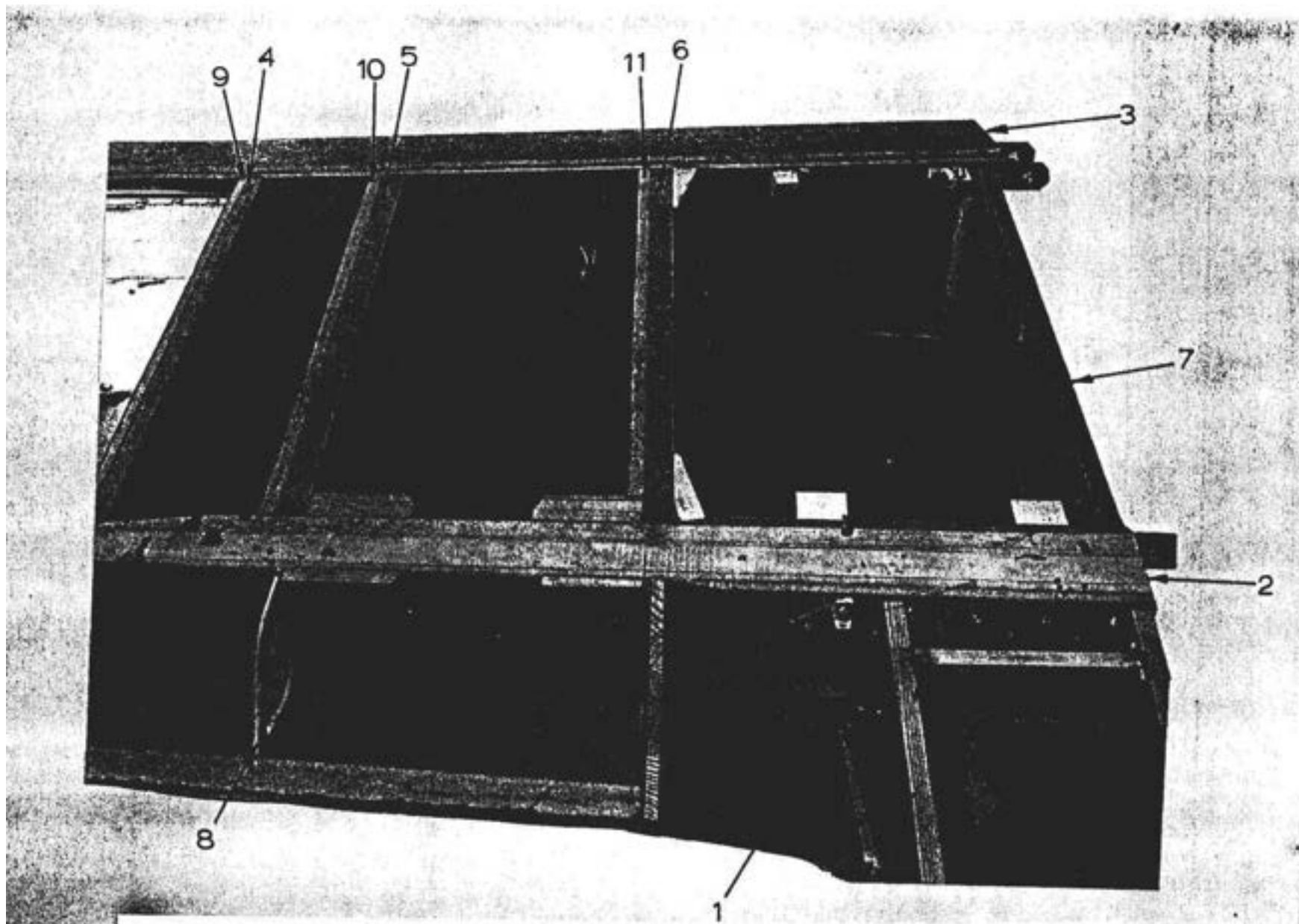


FIGURE 18. WING - FRONT SPAR TO TRAILING EDGE - RIB STATIONS 1, 3, 4 AND 5



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FIGURE AND INDEX No .	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
17-		WING - REAR SPAR TO TRAILING EDGE-INBOARD		
- 1	192505-20	Tail Rib - Station No. 3	1	
- 2	192689-1	Rib - Station No. 2 (Left Wing)	1	
	192689-2	Rib Station No. 2 (Right Wing)	1	
- 3	192509-0	Rib - Station No. 1 {Left Wing}	1	
	192509-10	Rib - Station No. 1 {Right Wing}	1	
- 4				D
- 5				D
- 6				D
-7				D
- 8				D
- 9	192500-31	Gluing	1	
-10	19225-17	Top Cover Reinforcement	1	
-11	192500-30	Gluing	1	
-12	192500-123	Trailing Edge, Left Hand	A/R	
	192500-124	Trailing Edge, Right Hand-	AIR	
-13	192500-121	Trailing Edge, Left	A/R	
	192500-122	Trailing Edge, Right Hand	A/R	
-14	192500-45	Trailing Edge, Left Hand	A/R	
	192500-119	Trailing Edge, Right	AIR	
-15	192500-29	Tip Block Support	A/R	
-16	192500-116	Gluing Strip	1	
-17	192500-32	Gluing Strip	1	
D - This part is shown in the illustration and intentionally deleted from the parts list.				

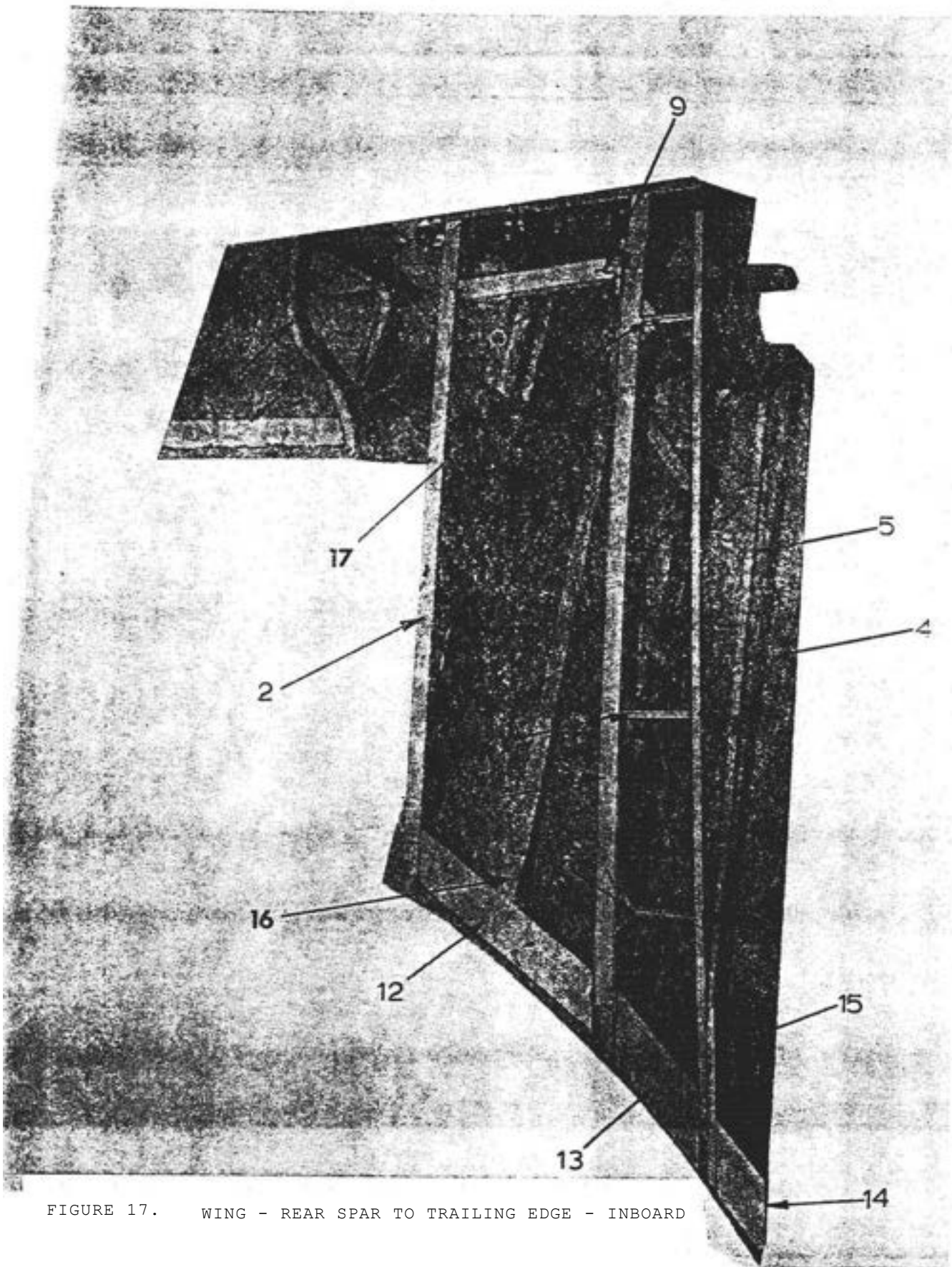


FIGURE 17. WING - REAR SPAR TO TRAILING EDGE - INBOARD

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
16.2-		WING ASSEMBLY - BOTTOM VIEW		
1	192500	Wing Assembly - Bottom View	1	

192500 WING ASSEMBLY
SPECIFY R/H or L/H

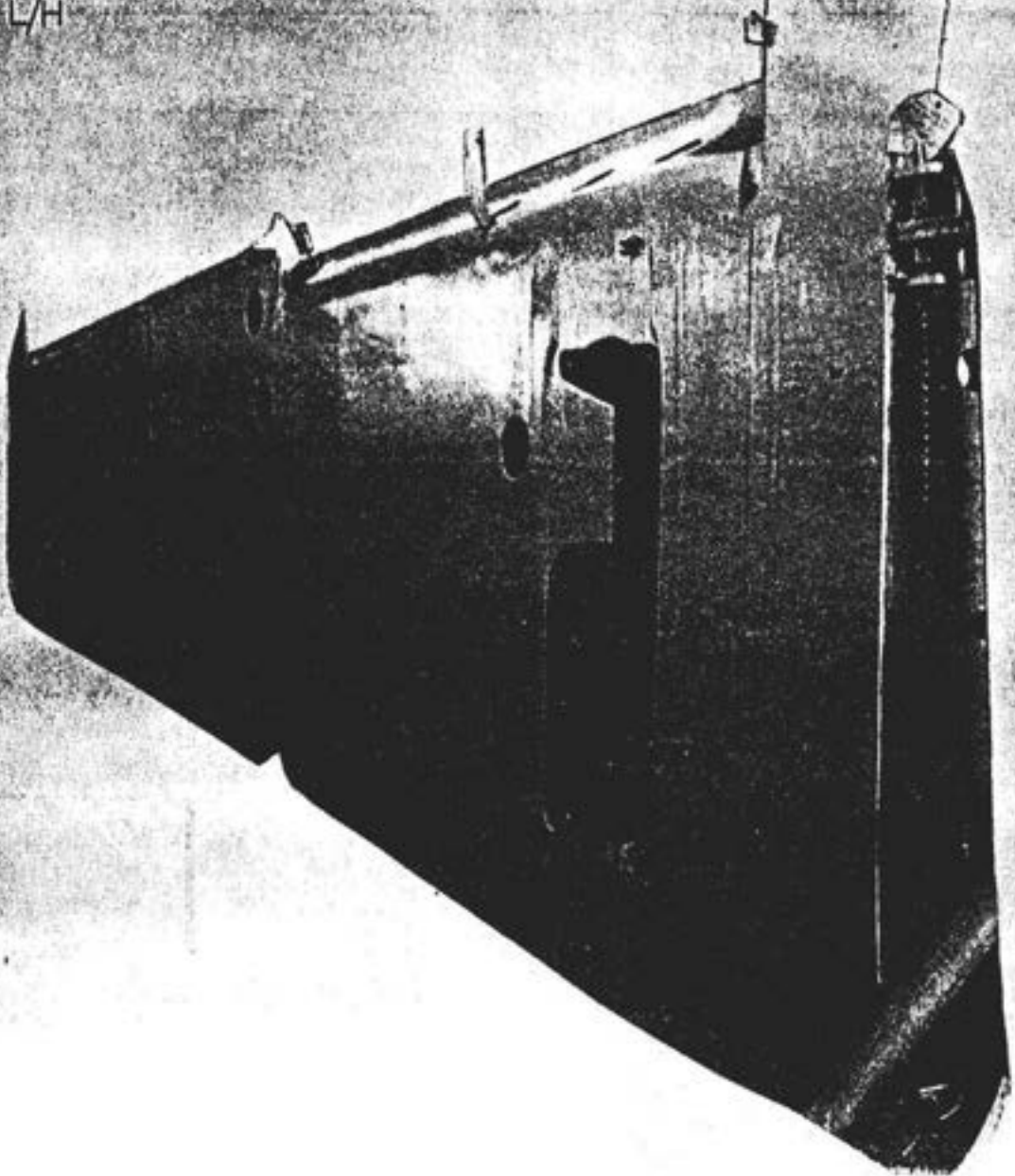


FIGURE 16, 2 WING ASSEMBLY

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
16.1-	192500	WING ASSEMBLY - TOP VIEW Wing Assembly - Top View	1	

192500 WING ASSEMBLY
SPECIFY R/H or L/H.

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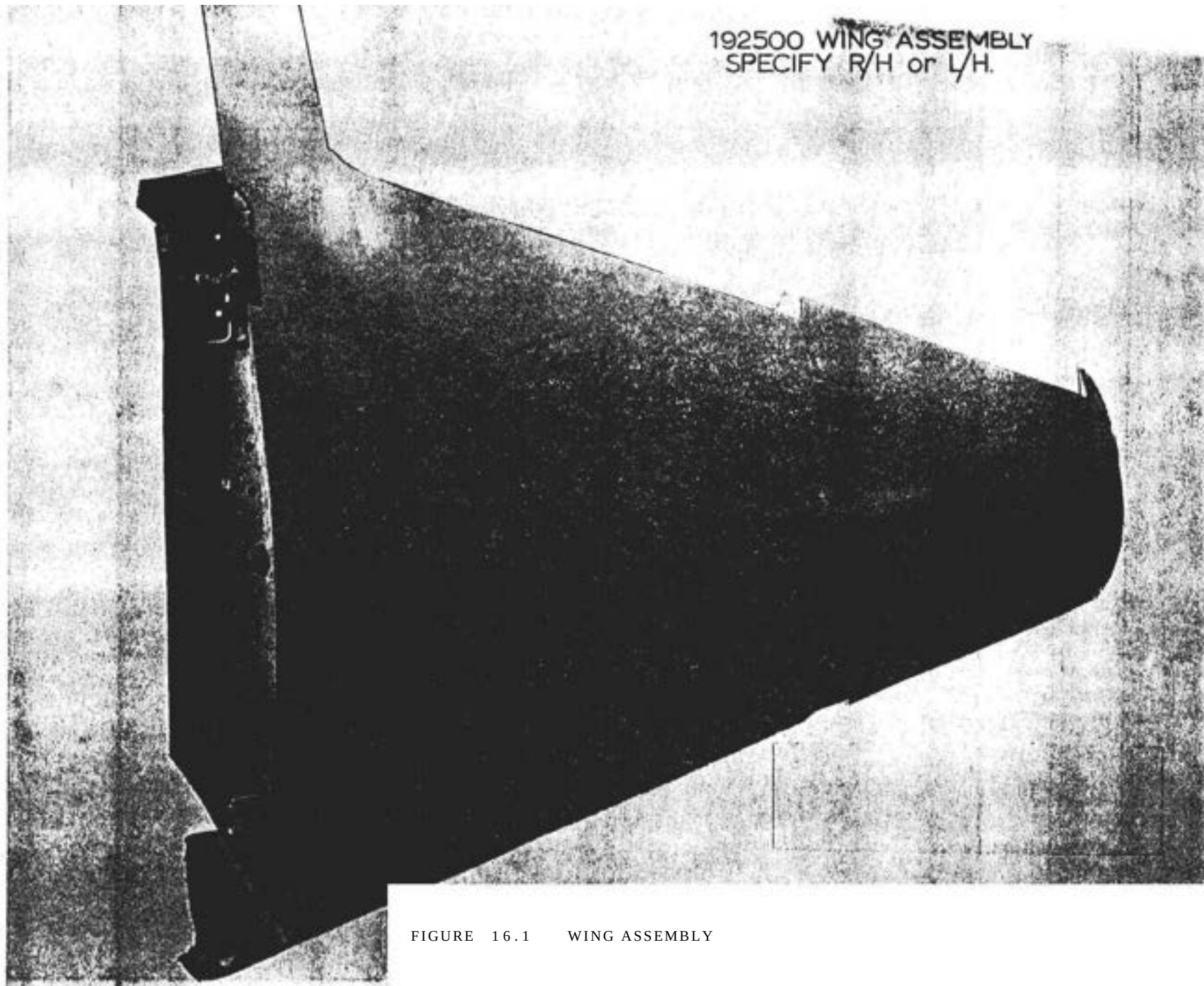


FIGURE 16.1 WING ASSEMBLY



15-		COVERING - WING, FLAPS AND AILERONS		
- 1	192515	Covering - Wing	1	D
- 2	192519	Covering - Aileron	1	D
3	192520	Covering - Flap	1	D
- 4	X1567	Wing Walk	1	E
- 5	192521- 7	Fairing - R/H.....	1 R/H	
	192521- 6	Fairing - L/H	1 L/H	
- 6	6 x 3/8		24	D
- 7	A3236012-24A		24	D
D - Right hand shown, left hand typical. E - Right hand wing only.				

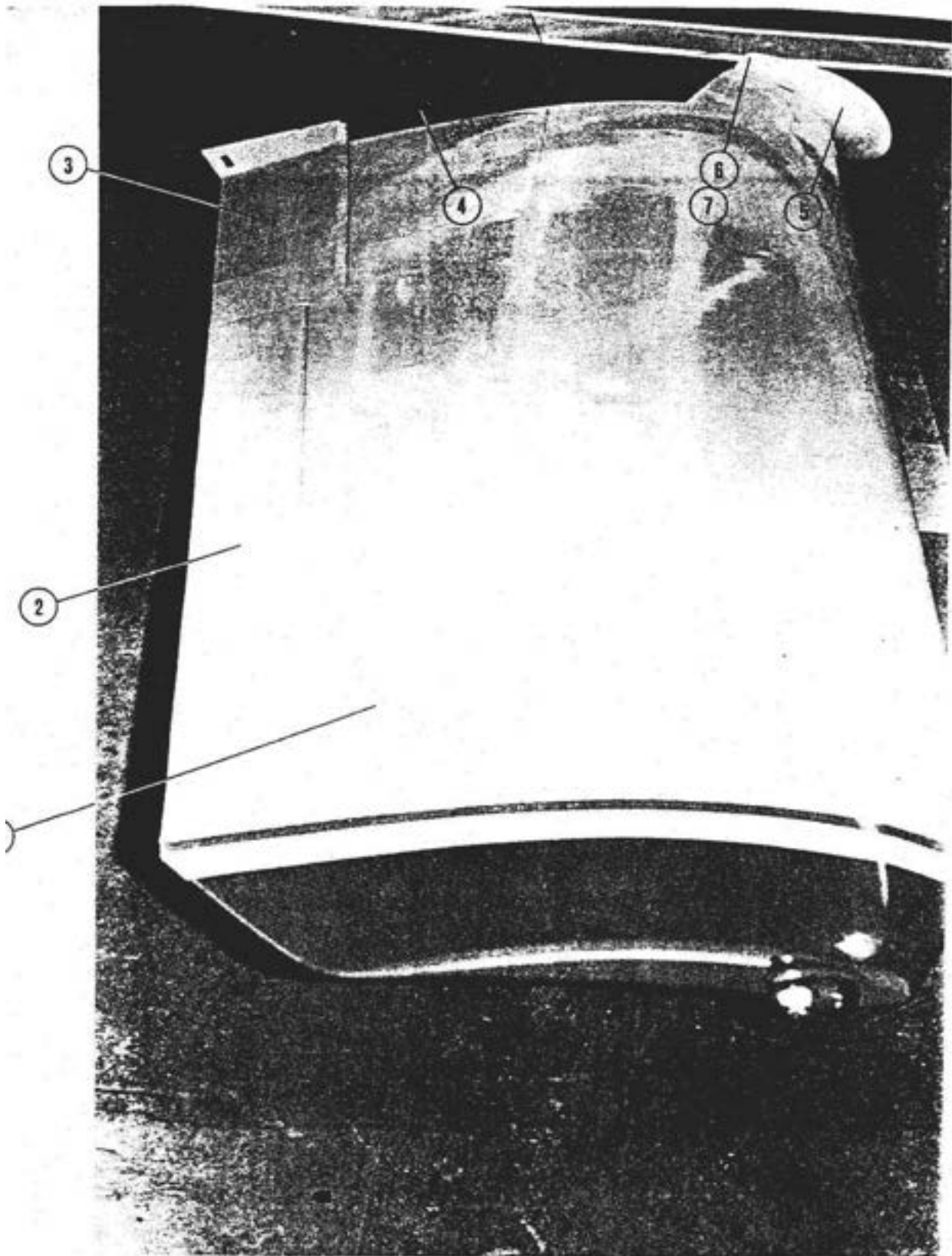


FIGURE 15. COVERING - WING, FLAPS AND AILERONS

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
14-		BAGGAGE COMPARTMENT DOOR		
	206157	Baggage Compartment Door Installation		
	196665-10	Baggage Compartment Door and Upholstery Assembly.	1	
- 1	196608-400	Baggage Door Upholstery Assembly	1	
	206156-0	Baggage Door Assembly	1	
- 2	.12" x .56"	Neoprene (92 inches in length)	1	
	206223-1	Seal	1	
	RTV 108	Silicone Rubber	A/R	
- 3	206112-1	Hinge	1	
- 4	206155-20	Door	1	
- 5	68-054A Type 2	Lock	1	
- 6	206158-1	Arm	1	D
- 7	H603S073C347	Latch	1	
- 8	206159-1	Receptacle	1	E
	206169-1	Filler Strip	1	F
- 9	No. 6 x 1/2	Screw (Truss Head)	9	
-10	No. 6 x 3/4	Screw (Oval Head)	2	
-11	206200-1	Plate	1	
-12	No. 4 x 3/8	Screw (Truss Head)	4	
-13	196948	Spring	1	
-14	AN531-8-22	Screw	1	E
-15	AN601-8	Trim Washer	1	E
-16	AN960-8	Washer	1	E
-17	AN970-3	Washer	2	E
D - The arm in the picture should be bending toward the lock to be correctly illustrated. E - This part is attached to the door frame. F - This part is <i>bonded to</i> 206159-1.				

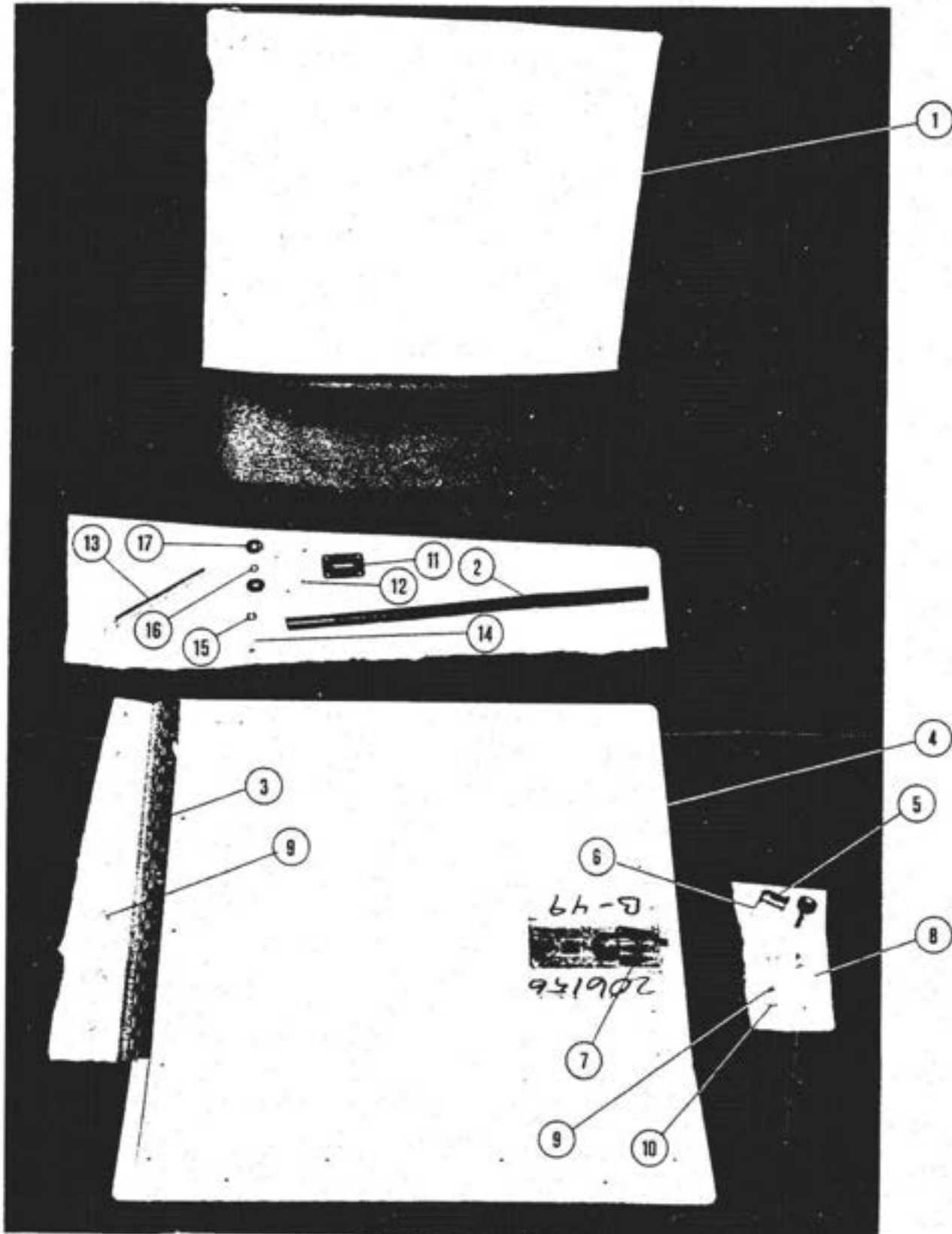


FIGURE 14. BAGGAGE COMPARTMENT DOOR

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
13-		LOWER CABIN DOOR LOCK ASSEMBLY		
	196566	Lower Cabin Door Lock Assembly	1	
- 1	196566-2	Cover Plate	1	
- 2	196566-10	Cam Assembly	1	
- 3	198004-19	Bushing	1	
- 4	196566-30	Base Plate Assembly	1	
- 5	196566-20	Slide Bolt Assembly	1	
- 6	196566-15	Spring	1	
- 7	196566-16	Spring Keeper	1	
- 8	196571	Spring	1	
- 9	196566-14	Detent Ball	1	
-10	AN515-6-18	Screw	2	
-11	198004-20	Bushing	2	
-12	AN364-632	Nut	2	
-13	3100-43	Retaining Ring	1	
	5100-43	Retaining Ring (Alternate for 3100-43)	1	
-14	AN960-716L	Washer	1	
-15	AN507-632-5	Screw	2	
-16	AN364-632	Nut	2	
-17	196937	Lock Assembly	1	
-18	198004-17	Spacer	1	
-19	206207-20	Door Handle, Outside	1	
-20	196572-4	Dowel Pin	1	
-21	AN935-416	Washer	1	
-22	AN4-7A	Bolt	1	

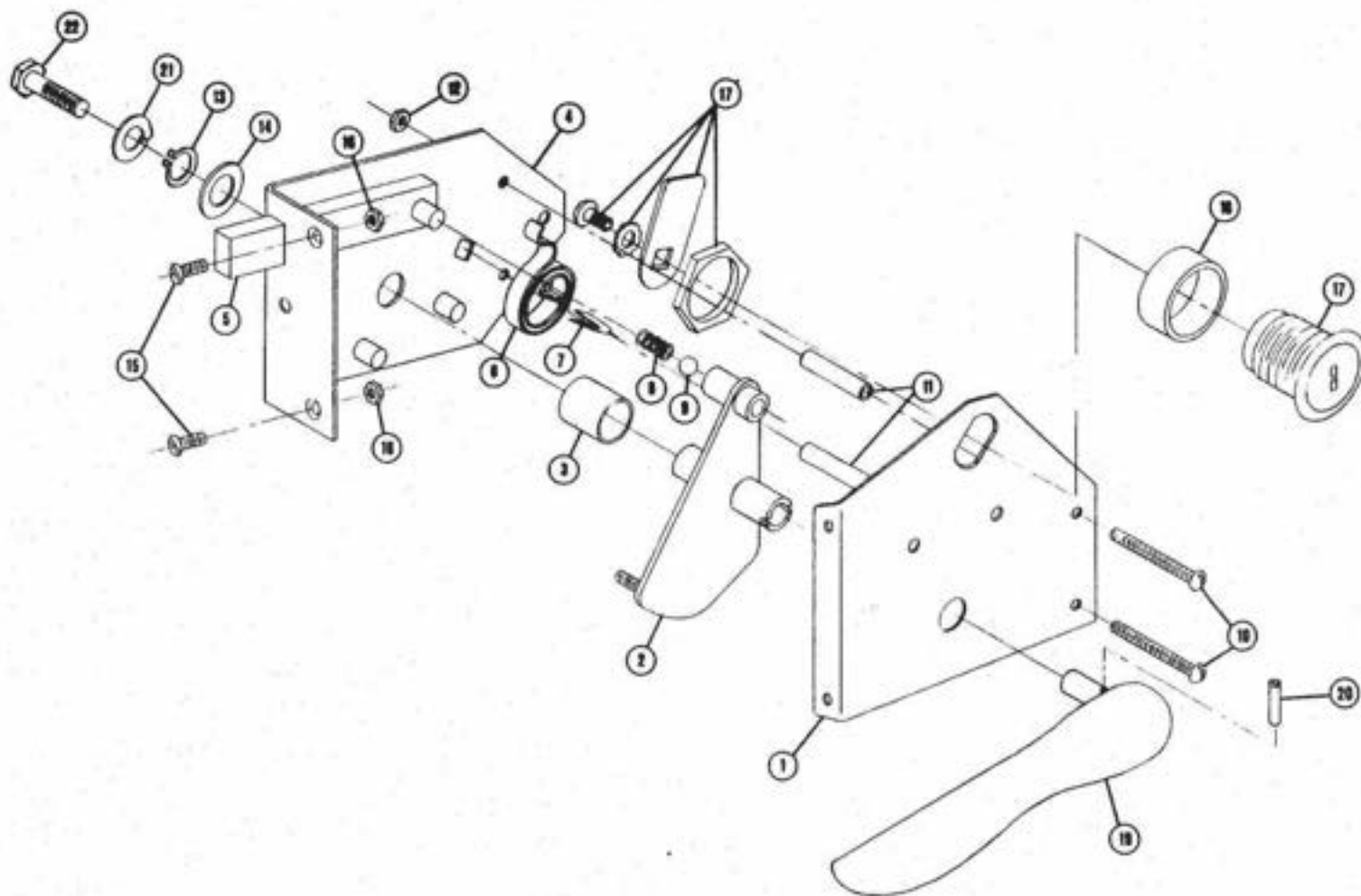


FIGURE 13. LOWER CABIN DOOR LOCK ASSEMBLY

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
12.3-				
-51	AN960-516L	Washer	A/R	
-52	AN960-516	Washer	A/R	
-53	196569-1	Washer	2	
-54	198004-27	Bushing	1	D
-55	AN23-14A	Bolt	1	
-56	198004-30	Bushing	1	
D-This part may be substituted by 198004-28, or 198004-29 depending on the fit of the door.				

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
12.3-				
-25	AN960-10	Washer	1	
-26	AN960-1OL	NUt	1	
-27	196566	Lock Assembly, Lower Cabin Door (See Figure 13)	-	
-28	AN960-10	Washer	3	
-29	AN960-1OL	Washer	1	
-30	AN364-1032	Nut	2	
-31	196567-30	Push Rod Assembly	1	
-32	AN161-22RS	Push Rod, Clevis	1	
-33	AN3-5A	Bolt	1	
-34		Wave Washer	1	
-35	AN960-10	Washer	1	
-36	MS20365-1032	Nut	1	
-37	196567-20	Arm Assembly	1	
-38	196567-10	Plate Assembly	1	
-39	5100-43	Snap Ring	1	
-40	4787463	Handle	1	
-41	No. 10/24 x 1/2	Screw, Round Head, Phillips Recessed	1	
-42	AN526-10-8	Screw	4	
-43	AN960-10	Washer	4	
-44	196567-13	Stud	1	
-45	196567-14	Washer	1	
-46	AN935-416	Washer	1	
-47	1/4 x 20	Hex Nut	1	
	196569	Installation - Cabin Door Stop	-	
-48	196392	Cabin Door Stop Assembly	1	
-49	206196-1	Clevis	1	
-50	AN960-10L	Washer	2	
Continued On Next Page				



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
12.3-		CABIN DOOR HARDWARE		
	206244	Installation - Cabin Door Locks	-	
	206206-10	Upper Door Latch Assembly	1	
	206206-0	Plate Assembly	1	
- 1	0206203-1	Plate	1	
- 2	MS21078-3	Nut Plate	3	
- 3	U206204-1	Arm	1	
- 4	206206-1	Arm	1	
- 5	206206-2	Arm	1	
- 6	206205-0	Arm	1	
- 7	198004-154	Bushing	2	
- 8	198004-155	Bushing	1	
- 9	198004-156	Bushing	1	
-10	AN526-10-10	Screw	1	
-11	AN526-10-12	Screw	1	
-12	MS24693-273	Screw	7	
-13	AN960-10L	Washer	5	
-14	MS20364-1032	Nut	3	
-15	196689-1	Trim Plate	1	
-16	AN526-10-10	Screw	3	
-17	AN960-10L	Washer	3	
-18	AN155-16S	Barrel Turnbuckle	1	
	206224-10	Cable Assembly	1	
-19	MS2126OS3RH	Terminal	1	
-20	206224-1	Guide Tube	1	
-21	206224-2	Wire	1	
-22	206224-3	Sleeve	1	
-23	AN526-10-8	Screw	3	
-24	AN742-D4	Clamp	1	
	AN742-4	Clamp (Alternate for AN742-D4)	1	
		Continued On Next Page		

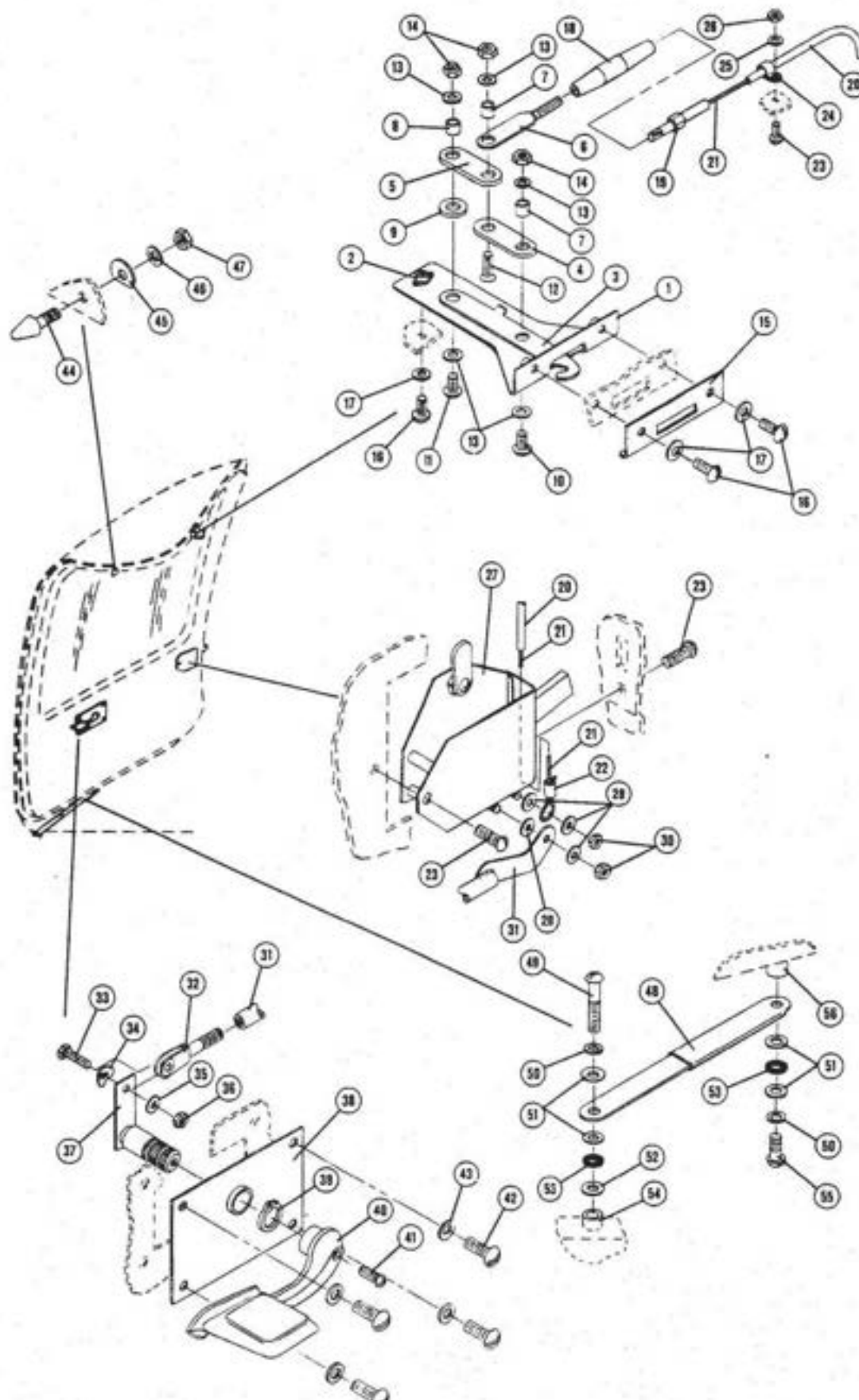


FIGURE 12.3 CABIN DOOR HARDWARE

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12.2-

-25	146964-4	Arm Rest	1	
-26	No. 6 x 3/4	Screw	3	
-27	A603-8	Washer	3	
-28	196962-45	Cloth Arm Rest	1	E
	196962-44	Foam		E
	196965-2	Stiffener		E
-29	No. 6 x 3/4	Screws	2	
-30	A603-6	Washers	2	
-31	2A20580	Ash Tray	1	
-32	196967	Spacer	1	
-33	No. 6 x 1	Spacer	2	
-34	AN960-6	Washer	2	
-35	196700-10	Strap	1	
-36	No. 8 x 1	Screw	2	
	A601-0	Trim Washer	2	
-37	206189-1	Window Fairing	1	
-38	A603-6	Trim Washer	13	
	No. 6 x 3/4	Screw	13	
-39	4787463	Door Handle - Inside (See Figure 12.3		
-40	196689-1	Trim Plate (See Figure 12.3)	--	

E - These parts sold only as one assembled unit.

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
12.2-		CABIN DOOR - INTERIOR		
- 1	196608-190	Headliner Assembly	1	
- 2	196559-11	Covering	1	
- 3	196559-9	Foam	1	
- 4	A-604-3	Aluminum Extrusion	1	
5	No. 4 x 3/8	Screw	12	
- 6	196559-13	Covering	1	
- 7	196559-12	Foam	1	
8	196559-14	Stiffener	1	
- 9	No. 4 x 3/8	Screw	7	
	196962-20	Panel Assembly	1	
-10	196962-43	Panel Board	1	
-11	No. 1202	Fasteners	6	
-12	196962-49	Foam	1	
-13	196962-8	Naugahyde	1	
-14	196962-53	Foam	1	
-15	196962-16	Cloth	1	
-16	196962-12	Trim	1	
-17	196962-14	Zodiac Naugahyde	1	
-18	196962-13	Trim-	1	
-19	AN960A6L	Washer	6	
-20	SS-44-C	Pop Rivets	6	D
-21	196962-46	Stiffener	1	
-22	196962-47	Stiffener	1	
-23	AN960A6L	Washer	3	
-24	SS-44-C	Pop Rivets	3	D
CONTINUED ON Next PAGE				
D An equivalent pop rivet may be substituted.				

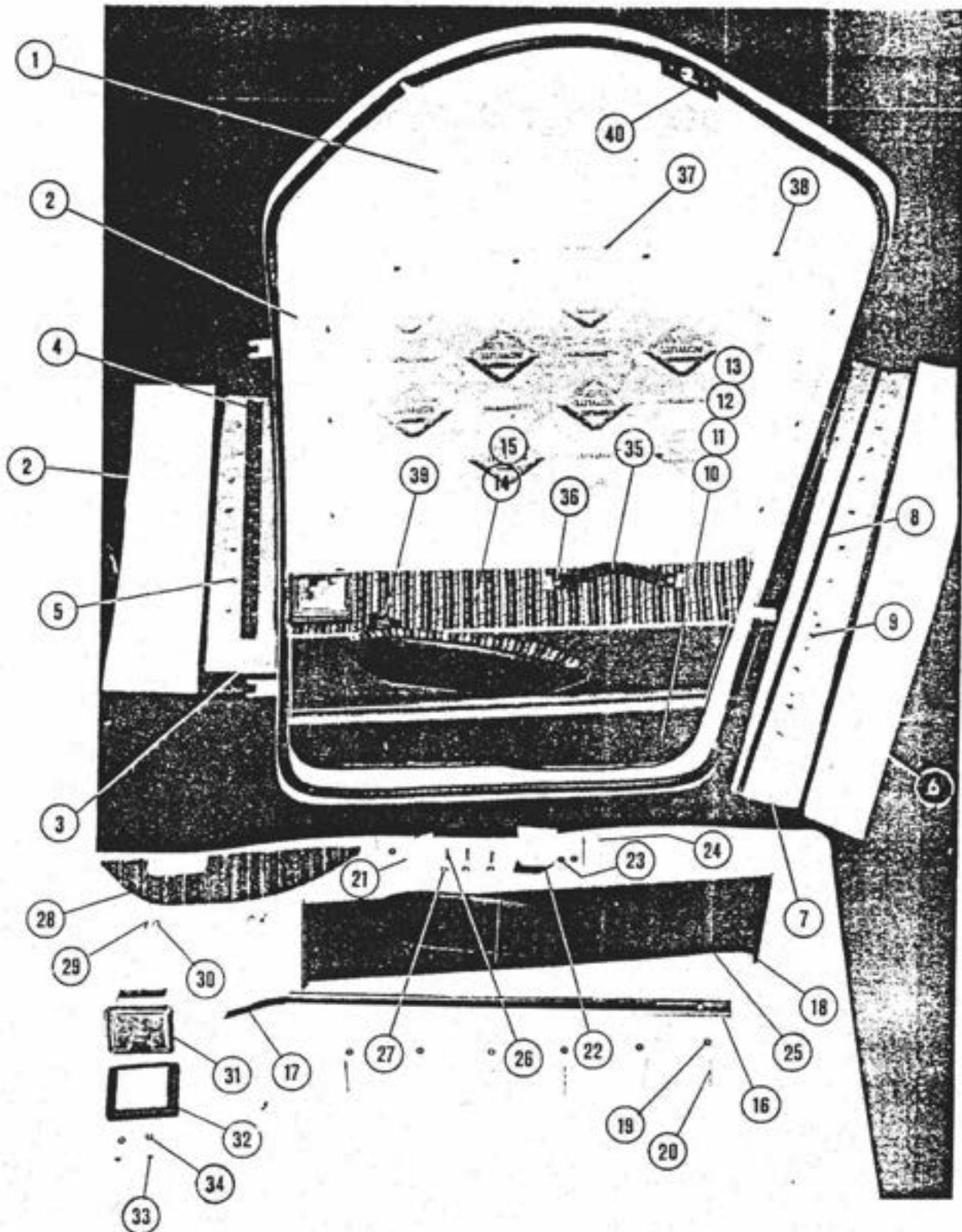


FIGURE 12.2 CABIN DOOR - INTERIOR

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FIGURE AND INDEX N o .	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
12, 1-		CABIN DOOR - EXTERIOR		
1	196568	Cabin Door	1	
- 2	196401	Hinge-Upper	1	
- 3	1032 x 14"	Screw	2	
- 4	1032 x 7/8"	Screw	1	
	AN364-1032	Nut	3	
- 5	AN23-18A	Bolt	1	
- 6	196403	Bushing - Hinge Bearing	1	
- 7	AN960-10	Washer	1	
- 8	AN364-1032	Nut	1	
- 9	196402	Hinge Lower	1	
-10	1032 x 104"	Screw	2	
-11	1032 x 7/8"	Screw	1	
	AN364-1032	Nut	3	
-12	AN23-18A	Bolt	1	
-13	196403	Bushing - Hinge Bearing	1	
-14	AN960-10	Washer	1	
-15	AN364-1032	Nut	1	
-16	196562	Window	1	
-17	206207-20	Outside Door Handle Assembly (See Figure 13)	—	
-18	68-054A-2	Lock Assembly (See Figure 13)	-	

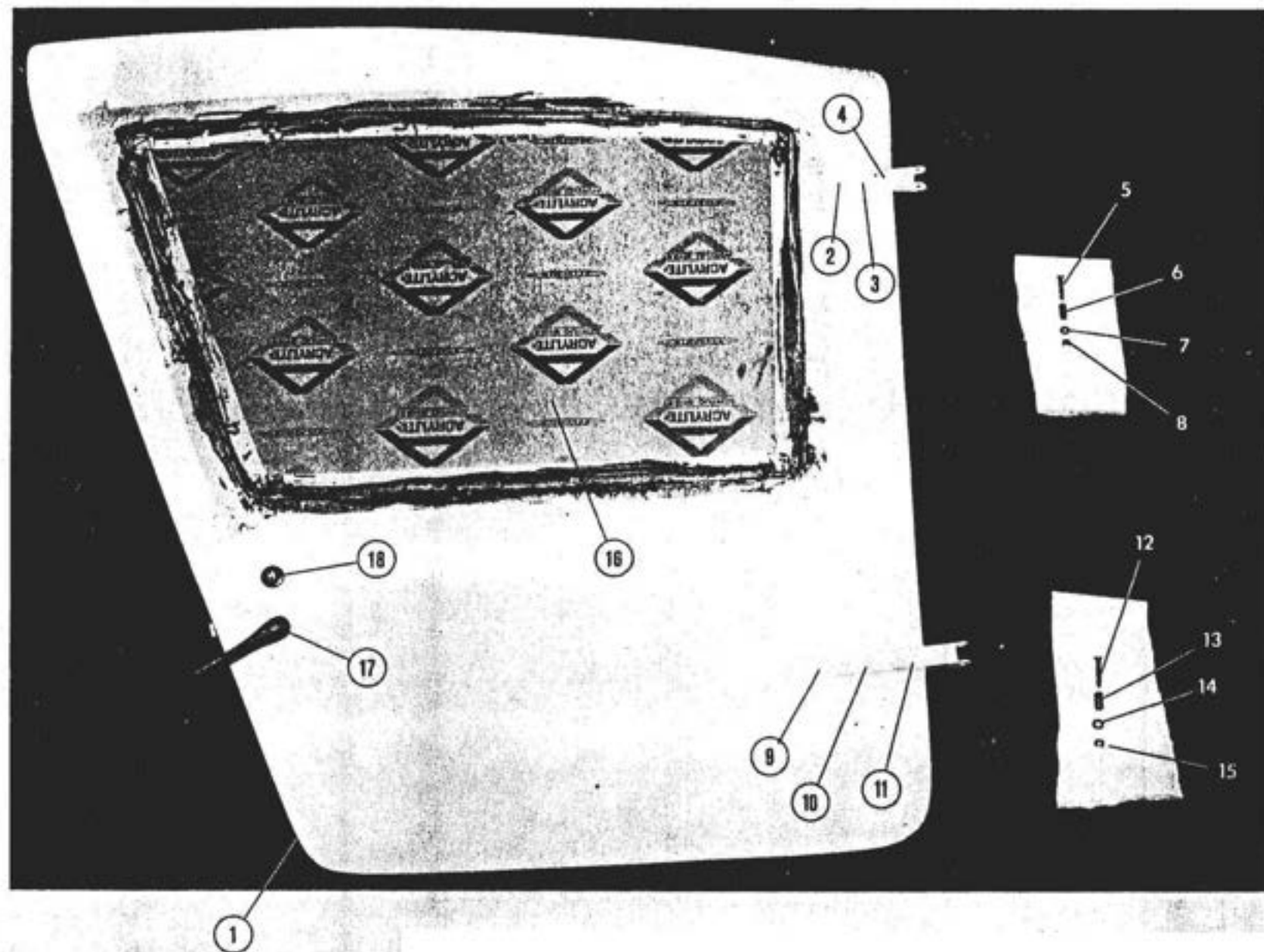


FIGURE 12.1 CABIN DOOR - EXTERIOR



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
11«				
	196695	Installation - Hand Strap	-	E
-36	196695-10	Strap Assembly	1R/1L	
-37	AN970-3	Washer	2R/2L	
-38	10-1448	Garment H o o k	1R/1L	
-39	507-10R22	Screw	1R/1L	
	196601	Installation - Right Rear Window Fairing	-	E
	196599	Installation - Left Rear and Pilot's Window Fairing	-	
-40	206188-1	Window Fairing, Pilot's	1	
-41	No. 6 x 1	Screw	13	
-42	A603-6	Trim Washer	13	
-43	206186-1	Window Fairing	1L	
	206187-1	Window Fairing	1R	
-44	No. 6 x 1	Screw	12R/12L	
-45	A603-6	Trim Washer	12R/12L	
	</			



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
11.-				
-21	196608-180	Side Panel Assembly	1L	E
-22	196608-140	Post Cover Assembly.....	1L	E,F
-23	196608-150	Post Cover Assembly.....	1R	E,G
	196608-430	Post Cover Assembly (Optional)	1R	E,F
-24	196974-0	Microphone Bracket Assembly.....	1	
-25	-----	Microphone Hook.....	1R/IL	H
-26	No. 6 x 3/4			
-27	A603-6	Washer.....	2	
-28	196608-130	Post Cover Assembly.....	1L	E
	196608-120	Post Cover Assembly.....	1R	E
-29	196608-160	Side Panel Assembly	1L	E
	196608-170	Side Panel Assembly	1R	E
-30	SJ-3400	Hook Tape	A/R	
	062-080-012- 0199-AA	Hook Tape (Alternate For SJ-3400)	A/R	
-31	SJ-34001	Loop Tape	A/R	
	062-001-012- 0199-AA	Loop Tape (Alternate For SJ-3401).....	A/R	
-32	196608-230	Post Cover Assembly.....	1L	E
	196608-20	Post Cover Assembly.....	1R	E
-33	A604-3	Molding (Left Side Only)	1	
-34	A603-6	Washer	3R/1L	
-35	No. 6 x 3/4	Screw.....	3R/1L	
Continued On Next Page				
E-Specify color and material or note the aircraft serial number when ordering.				
F-Installed when microphone bracket and hook are used.				
G-Installed without the microphone bracket and hook.				
H-Specify microphone manufacturer when ordering. The microphone hook is furnished with the microphone.				



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
		CABIN WINDOWS - INSTALLATION		
	196554	Installation - Pilot's Window	-	
- 1	196940-1	Window, Pilot's	1	
- 2	196940-2	Vent Window	1	
- 3	196554-1	Seal	1	
- 4	196555-3	Hinge	4	
- 5	196555-5	Handle	1	
- 6	196555-4	Latch	3	
- 7	No. 4 x 1/2	Screw,	3	
- 8	AN21-20A	Bolt	2	
- 9	AN365-640	Nut	2	
-10	196823	Placard (See Figure 99)	1	
-11	196556-4	Retainer, Top	1	
-12	196556-1	Retainer, Front	1	
-13	196556-2	Retainer, Rear	1	
-14	196556-3	Retainer, Bottom	1	
-15	No. 6 x 3/8	Screw	67	D
	196550	Installation - Rear Window	-	
-16	206113-1	Window	1L	
	196552	Window	1R	
-17	196551-4	Retainer, Top	1R/IL	
-18	196551-1	Retainer, Front	1R/1L	
-19	196551-3	Retainer, Rear	1R/IL	
-20	196551-5	Retainer, Bottom	1R/IL	
	196666	Installation - Upholstery Trim	-	E
		Continued On Next Page		
		D-The units per assembly is the total screws used for all the window retainers (right and left sides).		
		E-Specify color and material or note the aircraft serial number when ordering.		

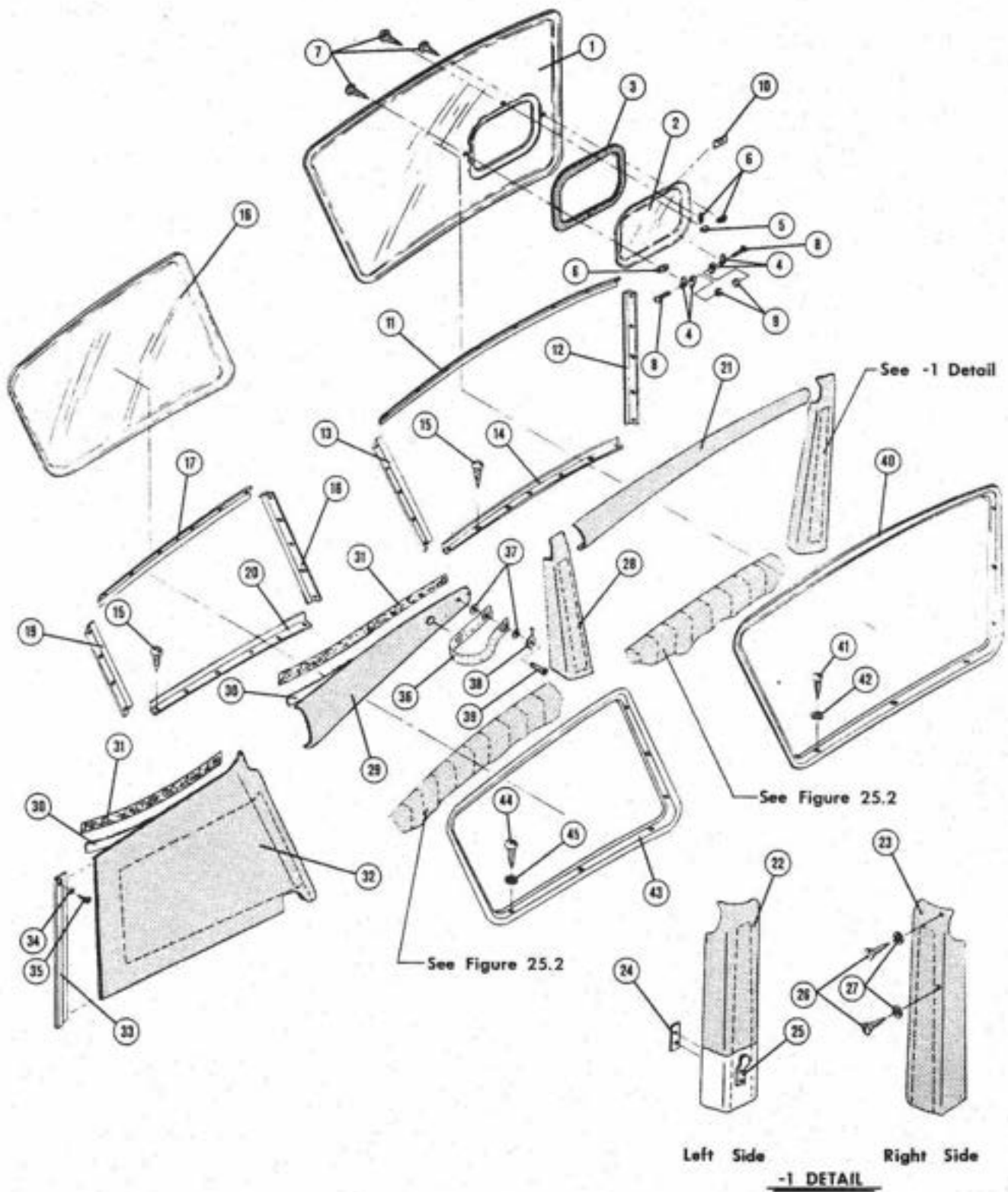


FIGURE 11. CABIN WINDOWS - INSTALLATION

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
10.4-				
-22	AN520-10-8	Screw	3	B,C
	AN960-10L	Washer	3	B,C
-23	AN837-4	Elbow	2	B,C
	AN960-716L	Washer	4	B,C
	AN924-4D	Nut	2	B,C

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY-	CODE
10.4-				
-14	AN832-2	Union - Flared Tube, Bulkhead	1	B
	AN832-2	Union - Flared Tube, Bulkhead	2	C
	AN960-516L	Washer	2	B
	AN960-516L	Washer	4	C
	AN924-2D	Nut	1	B
	AN924-2D	Nut	2	C
-15	AN832-3	Union Flared Tube, Bulkhead	1	B,C
	AN960-616L	Washer	2	B,C
	AN924-3D'	Nut	1	B,C
-16	190349-0	Clamp	2	B,C
	MS35207-267	Screw	4	B,C
	AN960-10L	Washer	4	B,C
-17	190213-4	Fairlead	1	B,C
	190316-1	Asbestos Strip	1	B
	190311-1	Asbestos Strip	1	C
	MS20365-440	Nut	4	B,C
	MS35207-218	Screw	4	B,C
	AN960-4	Washer	8	B,C
-18	190213-9	Insulator	2	B,C
	190316-1	Asbestos Strip	1	B
	190311-1	Asbestos Strip	1	C
	MS20365-440	Nut	4	B,C
	MSB5207-218	Screw	8	B,C
	AN960-4	Washer	8	B,C
-19	196935-10	Valve, R/H, Upper	1	B,C
-20	AN520-10-8	Screw	3	B,C
	AN960-10L	Washer	3	B,C
-21	196935-0	Valve, R/H,	1	B,C
CONTINUED ON NEXT PAGE				

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
10.4-				
- 9	190280-1	Cover Plate	6	B
	190280-1	Cover Plate	10	C
	190290	Cover	3	B
	190290	Cover	5	C
	AN526-6R8	Screw	12	B
	AN526-6R8	Screw	20	C
	AN931-4-12	Grommet	3	B
	AN931-4-12	Grommet	5	C
-10	190280-1	Cover Plate	2	B,C
	190290	Cover	1	B,C
	AN931-3-9	Grommet	1	B,C
	AN526-6R8	Screw	4	B,C
-11	MS3100A-32-6P	Receptacle	1	B,C
	MS3106B-32-850	Angle	1	B,C
	MS3057-20A	Clamp	2	B,C
	MS35207-247	Screw	4	B,C
	AN960-8	Washer	8	B,C
	AN365-832	Nut	4	B,C
-12	190280-1	Cover Plate	A/R	B,C,E
	190290	Cover	A/R	B,C
	MS35489-5	Grommet	A/R	8,C
	AN526-6R8	Screw	8	B,C
-13	AN832-4	Union - Flared Tube, Bulkhead	2	B,C
	AN960-716L	Washer	4	B,C
	AN924-4D	Nut	2	B,C
CONTINUED ON NEXT PAGE				
E - 190332-1 patch is used to cover hole when mixture monitor is not used.				

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY_	CODE
10.4-		FIREWALL BUILDUP - MODEL 17-31A AND 17-31ATC		
	190316	Firewall	1	B
	190311	Firewall	1	C
- 1	190315	Firewall	1	B
	190310	Firewall	1	C
- 2	190213-3	Shield	3	B,C
	190291	Cover, Grommet	3	B,C
	AN931-2-9	Grommet	3	B,C
- 3	AN515-8-6	Screw	6	B,C
	AN960-8	Washer	6	B,C
	AN365-832	Nut	6	B,C
- 4	196935-20	Valve, L/R	1	B,C
- 5	AN520-10-8	Screw	3	B,C
	AN960-10L	Washer	3	B,C
- 6	AN804-3	Tee	1	B,C,D
	AN924-3D	Nut	1	B,C,D
	AN960-616L	Washer	2	B,C,D
- 7	AN833-8	Elbow	1	B,C
	AN960-1016	Washer	2	B
	AN960-1016L	Washer	2	C
	AN924-8D	Nut	1	B,C
- 8	190213-0	Clamp	1	B,C
	MS35207-267	Screw	2	B,C
	AN960-10L	Washer	2	B,C
CONTINUED ON NEXT PAGE				
D - Used on aircraft with Serial No. 75-31115 or 75-32-160 and up.				

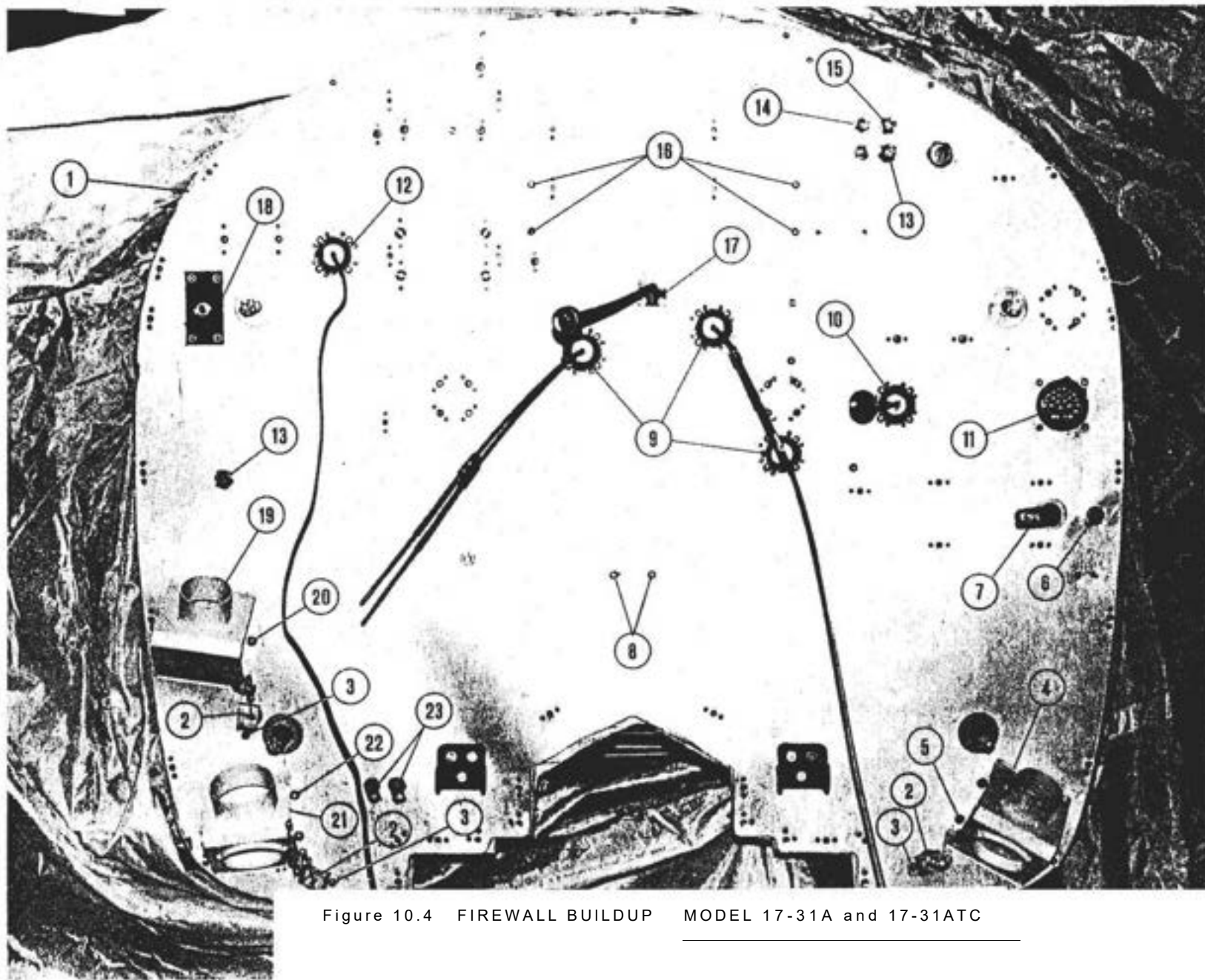


Figure 10.4 FIREWALL BUILDUP MODEL 17-31A and 17-31ATC

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
10.3				
-23	AN520-10-8	Screw	3	A
	AN960-10L	Washer	3	A
-24	AN837-4	Elbow	2	A
	AN960-716	Washer	4	A
	AN924-4D	Nut	2	A.
-25	196935-0	Valve, R/H Lower	1	A
-26	AN520-10-8	Screw	3	A
	AN960-10	Washer	3	A

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
10.3-				
-11	190290	Cover	1	A
	190280-1	Cover Plate	2	A
	AN931-3-9	Grommet	1	A
-12	AN515-6-10	Screw	4	A
-13	190280-1	Cover Plate	A/R	A,E
	190290	Cover, Grommet	A/R	A
	M535489-5	Grommet	A/R	A
-14	AN515-6-10	Screw	A/R	A
-15	AN832-4	Union - Flared Tube, Bulkhead	1	A
	AN960-716L	Washer	2	A
	AN924-4D	Nut	1	A
-16	AN832-3	Union - Flared Tube, Bulkhead	2	A
	AN960-616	Washer	4	A
	AN924-3D	Nut	2	A
-1?	190349-0	Clamp	2	A
	AN520-10-16	Screw	4	A
	AN960-10L	Washer	4	A
-18	190213-4	Fairlead	1	A
-19	AN515-4-10	Screw	4	A
	AN960-4	Washer	8	A
	AN365-440	Nut	4	A
-20	190213-9	Insulator	2	A
-21	AN515-4-10	Screw	4	A
	AN960-4	Washer	8	A
	AN365-440	Nut	4	A
-22	196935-10	Valve, R.H. Upper	1	A
CONTINUED ON NEXT PAGE				
E - 190332-1 Patch is used to cover hole when mixture monitor is not used.				



10.3-		FIREWALL BUILDUP - MODEL 17-30A		
	190267	Firewall Buildup	1	A
- 1	190214	Firewall	1	A
- 2	196935-20	Valve (L.N.)	1	A
- 3	AN520-10-8	Screw	3	A
	AN960-10L	Washer	3	A
- 4	190213-3	Shield	3	A
	190291	Cover, Grommet	3	A
	AN931-2-9	Grommet	3	A
- 5	AN520-10-8	Screw	6	A
	AN960-8	Washer	6	A
	AN365-1032	Nut	6	A
- 6	AN804-3	Tee	1	A,D
	AN924-3D	Nu t	1	A
	AN960-616L	Washer	2	A
- 7	190213-0	Clamp	1	A
	AN520-10-16	Screw	2	A
	AN960-10L	Washer	2	A
- 8	AN833-8	Elbow	1	A
	AN924-0	Nut	1	A
	AN960-1216	Washer	2	A
- 9	MS3100A-32-6P	Receptacle	1	A
	MS3108B-32-6S	Angle Plug	1	A
	MS3057-20A	Clamp	2	A
-10	AN515-8-12	Screw	4	A
	AN960-8	Washer	8	A
	AN365-832	Nut	4	A
CONTINUED ON NEXT PAGE				
D - Used on aircraft with Serial No. 75-3088				

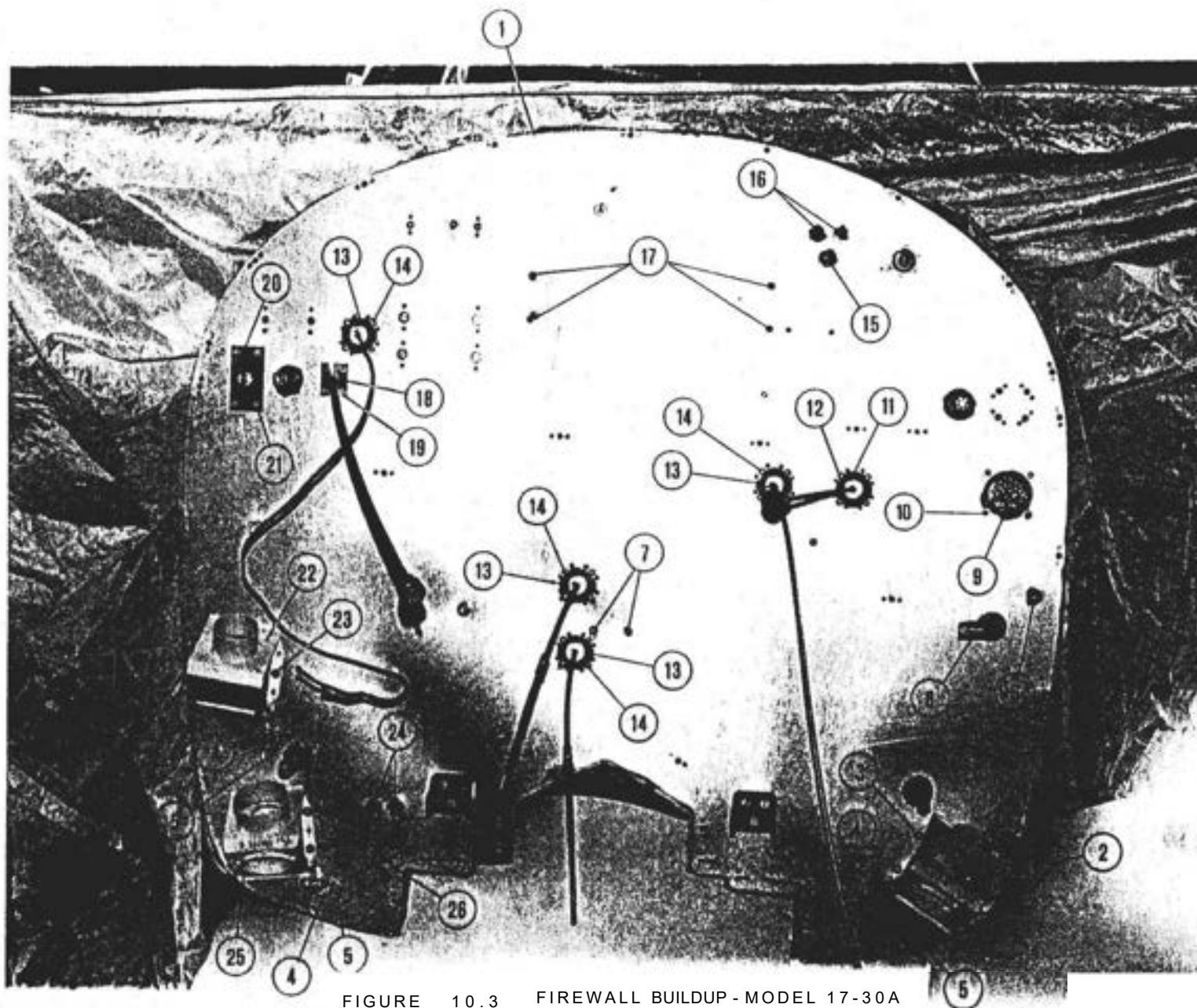


FIGURE 10.3 FIREWALL BUILDUP - MODEL 17-30A



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
10.2-		WINDSHIELD, COMPASS & OAT INSTALLATION		
	190266	Windshield Installation		
- 1	190223-1	Windshield	1	
- 2	No. 6 x 3/4	Wood Screw	20	
- 3	190221-23	Washer	20	
- 4	190221-21	Fairing - Left	1	
- 5	190221-22	Fairing - Right	1	
- 6	No. 4 x 3/4	Wood Screw	24	
- 7	190294	Seal	1	
	196950	Installation, Compass & OAT		
- 8	196950-0	Mount Assembly (Compass and OAT)	1	
- 9	196950-10	Tube Assembly	1	
-10	196950-6	Light Guide	1	
-11	AN515 6R5	Screw	2	
-12	196950-3	Bracket	1	
-13	C-2350-DL4-CM-B	Compass	1	
	0-2350-DL4-CMI-B	Compass (Alternate For C-2350-DL4-CM-B)	1	
-14	-----	Screw (Supplied With Compass)	2	
-15	-----	Nut (Supplied With Compass)	2	
-16	Model Q	Thermometer	1	
-17	MS21919-DF2	Clamp	1	
-18	AN520-10-8	Screw	1	
-19	AN960-10L	Washer	1	
-20	MS20365-1032	Nut	1	
-21	U206230-8	Plate	1	
-22	AN931-3-5	Grommet	1	
-23	2310-14V	Light	1	
-24	No. 6 x 1/2	Screw	2	
-25	A1784-63	Tinnerman	2	

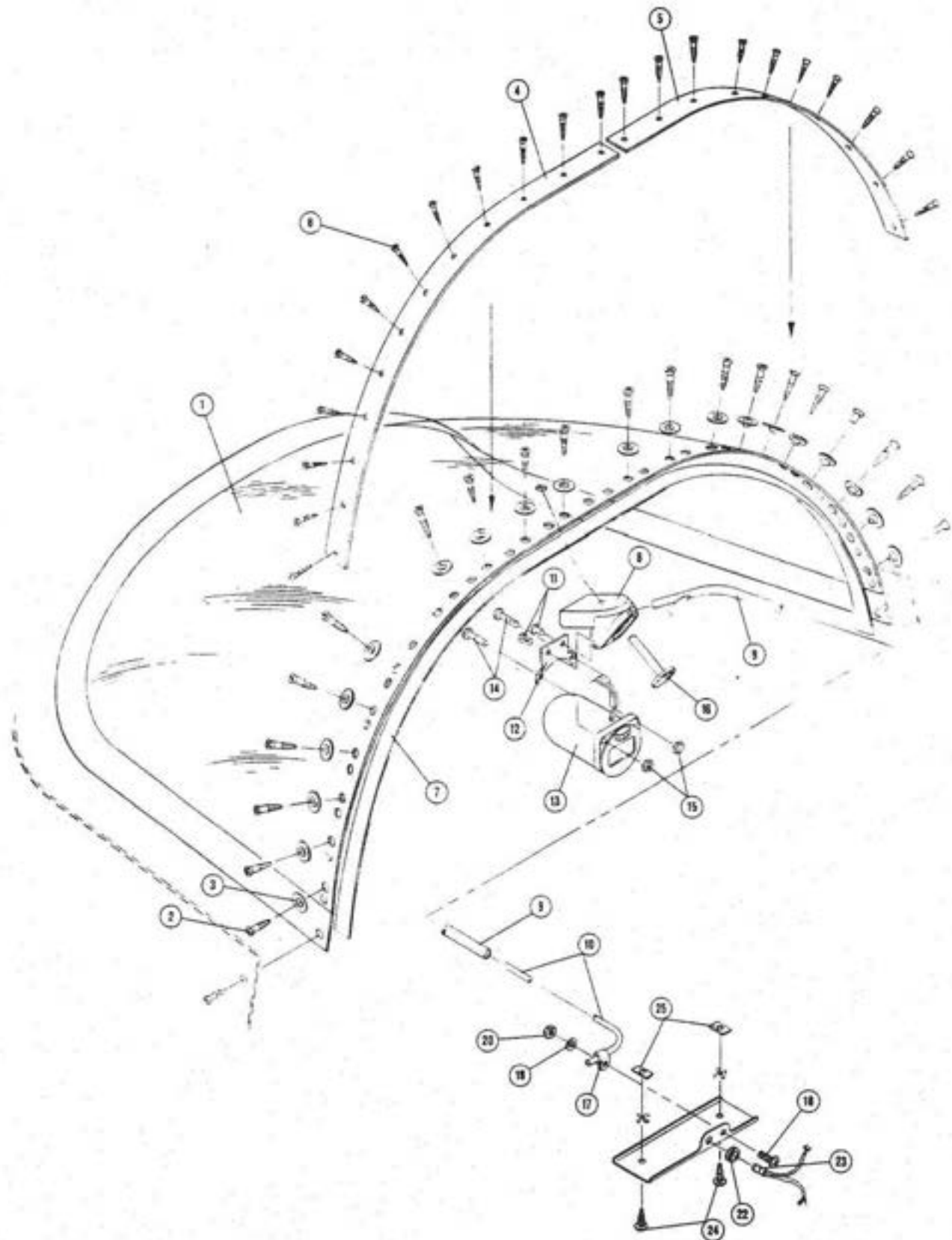


FIGURE 10.2 WINDSHIELD, COMPASS & OAT INSTALLATION

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
10.1-		WRAPAROUND COWLING		
- 1	190221-1	Wraparound - L/H	1	
- 2	190221-2	Wraparound - R/H	1	
- 3	194192-10	Boot	2	
- 4	190319-10	L/H Wheel	1	
- 5	190319-20	R/H Wheel Well	1	
- 6	190319-1	Wheel Well Back	1	
- 7	U190281-5	Angle, Lower,	1	
- 8	U190281-6	Angle, Lower, R/H	1	
- 9	U190281-3	Angle, Center, L/H	1	
-10	U190281-4	Angle, Center, R/H	1	
-11	U190281-1	Angle, Upper, L/H (Not shown)	1	
-12	U190281-2	Angle, Upper, R/H (Not Shown)	1	
-13	196932	Soundproofing	2	
-14	196864-1	Insulation,	1	
-15	196864-2	Insulation, R/H	1	
-16	196871	Insulation, L/H	2	
-17	196870	Insulation	2	
-18	196865	Insulation, Lower	1	
-19	196867	Insulation	1	
-20	196866-1	Insulation	1	
-21	196868	Insulation	1	
-22	196866-2	Insulation	1	
-23	196869	Insulation	1	
-24	196874	Insulation	2	
-25	196872-1	Insulation	1	
-26	196872-2	Insulation	1	
-27	196873-1	Insulation	1	
-28	196873-2	Insulation	1	

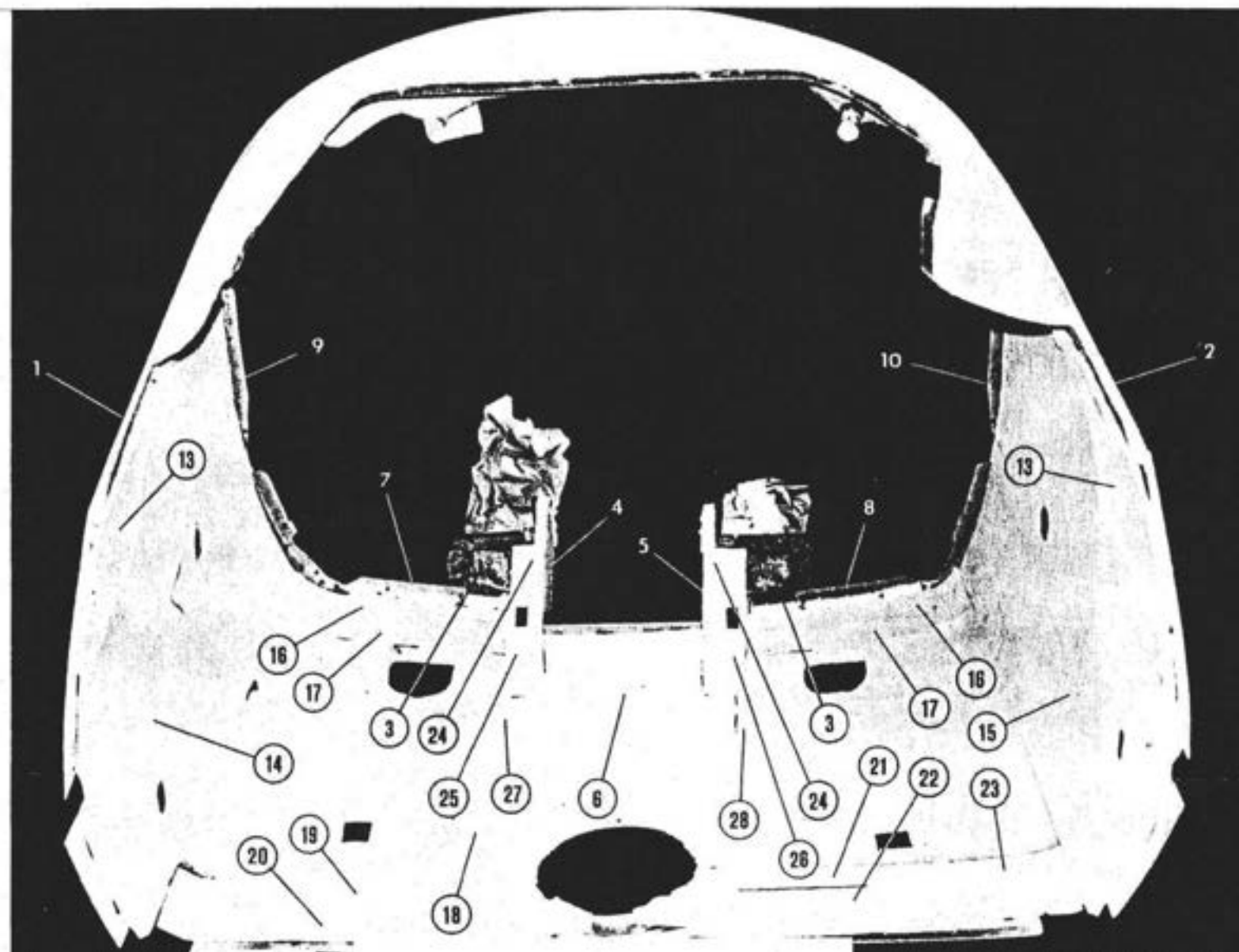


FIGURE 10.1 WRAPAROUND COWLING

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9.2-

INSTALLATION - AIRCRAFT TIE DOWNS

19276

Installation - Aircraft Tie Downs

- 1

19277

Ring, Tie

1

D

- 2

19278

Spring

2

D

- 3

198004-26

Bushing

2

D

- 4

AN970-3

Washer

4

D

- 5

AN365-1032

Nut

2

D

D - Left hand shown, right hand typical.

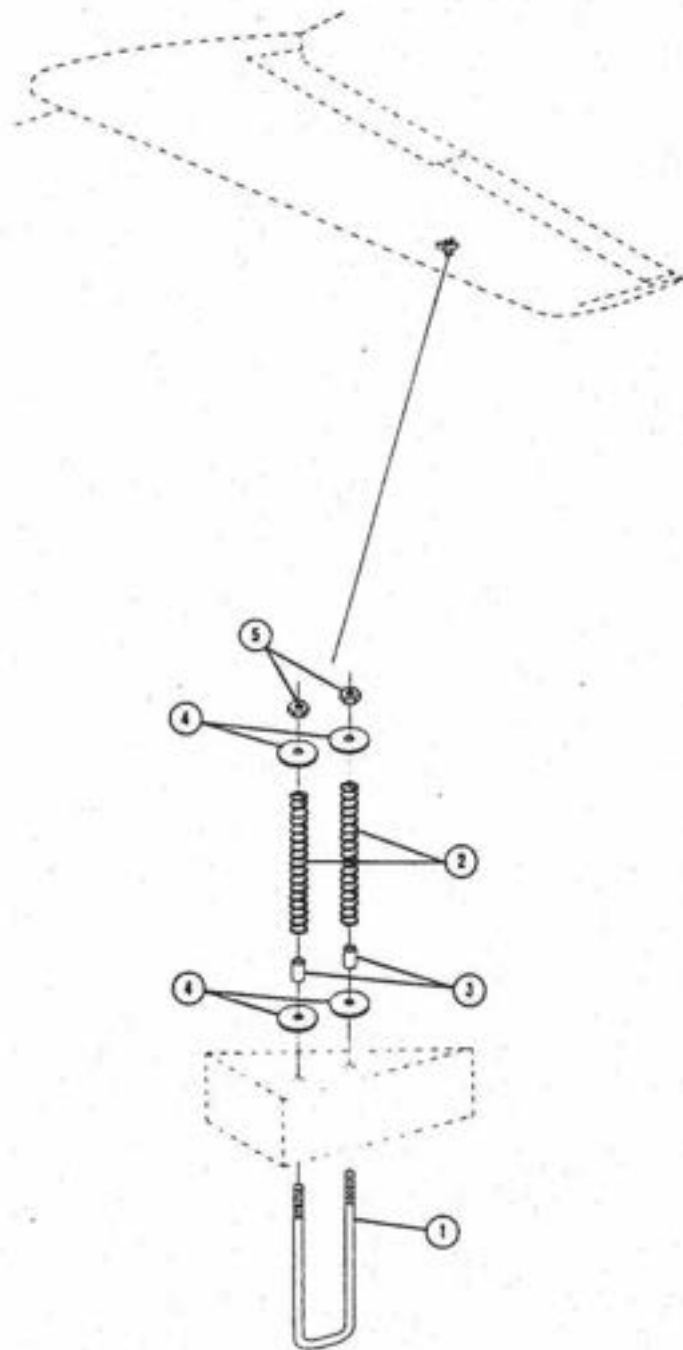


FIGURE 9.2 INSTALLATION - AIRCRAFT TIE DOWNS

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
9.1-		INSTALLATION - STEP		
	196737	Installation - Step	1	
- .1	196667	Step	1	
- 2	AN4-20A	Bolt	1	
- 3	AN90-416	Washer	2	
- 4	AN365-428	Nut	1	
- 5	AN380-4-8	Cotter Pin	1	

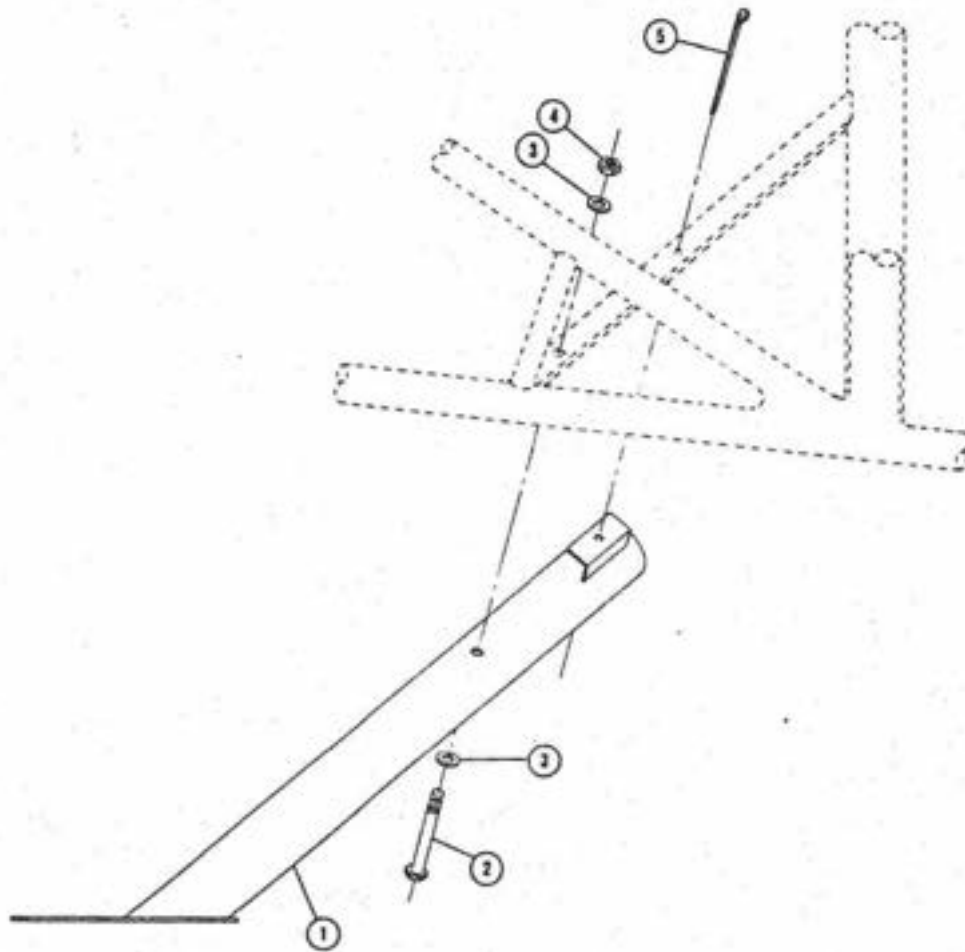


FIGURE 9.1 INSTALLATION - STEP



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
8-		INSTALLATION - STABILIZER STRUTS		
	193132	Installation - Stabilizer Struts	2	
- 1	193101-30	Strut	2	D
- 2	193130	Clevis	2	C
- 3	AN316-8R	Nut	2	D
- 4	AN5-10A	Bolt	2	D
- 5	AN960-516L	Washer	2	D
- 6	MS20365-524	Nut	2	D
- 7	AN3-6A	Bolt	2	E
- 8	AN960-10L	Washer	2	E
- 9	MS20365-1032	Nut	2	E
-10	193140-0	Strut	2	D
-11	AN315-6R	Nut	4	D
-12	AN316-6R	Nut	4	D
-13	AN5-30A	Bolt	2	E
-14	AN960-516	Washer	2	E
-15	MS20365-524	Nut	2	E
D - Left hand shown, right hand typical. E - Right hand shown, left hand typical.				

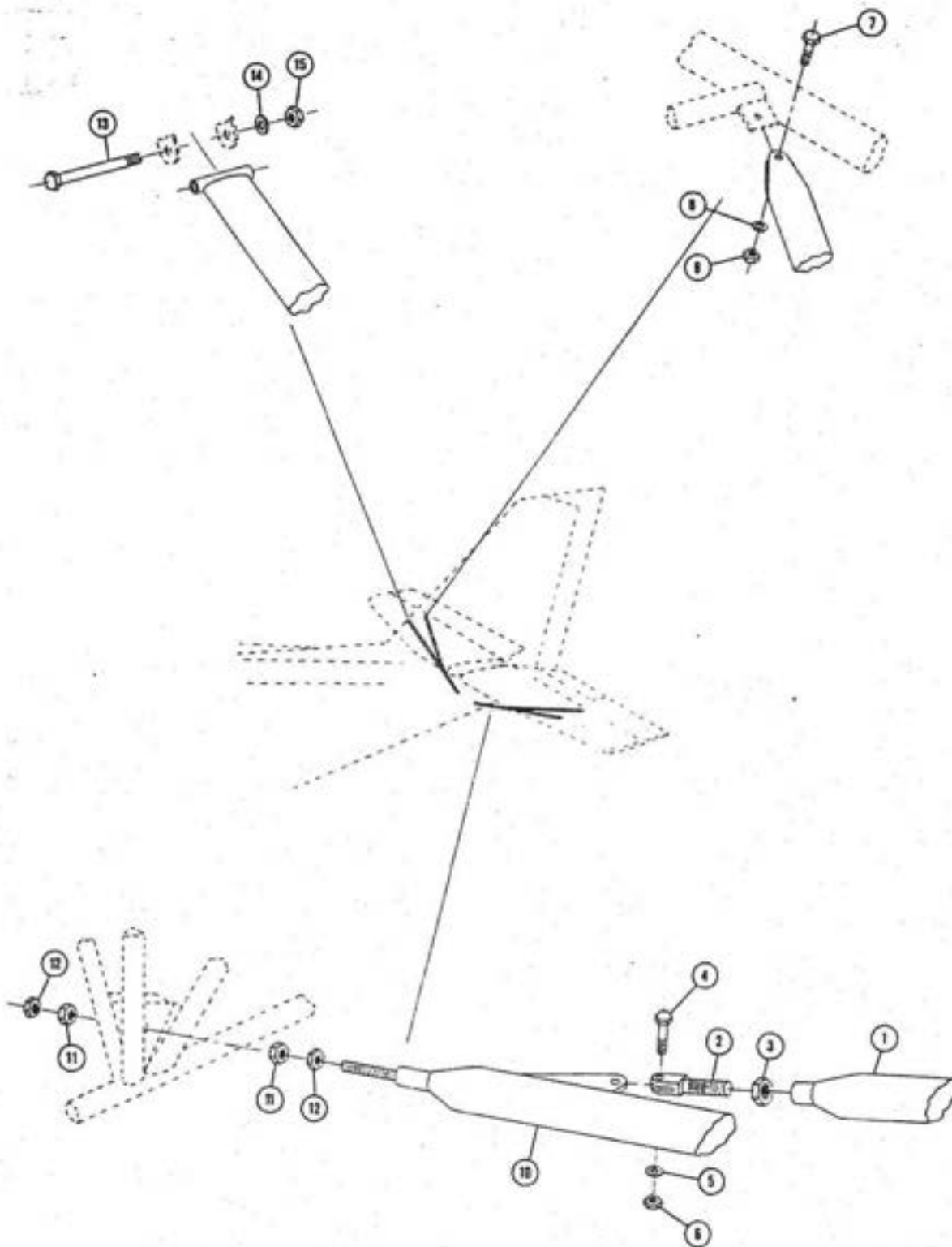


FIGURE 8. INSTALLATION - STABILIZER STRUTS



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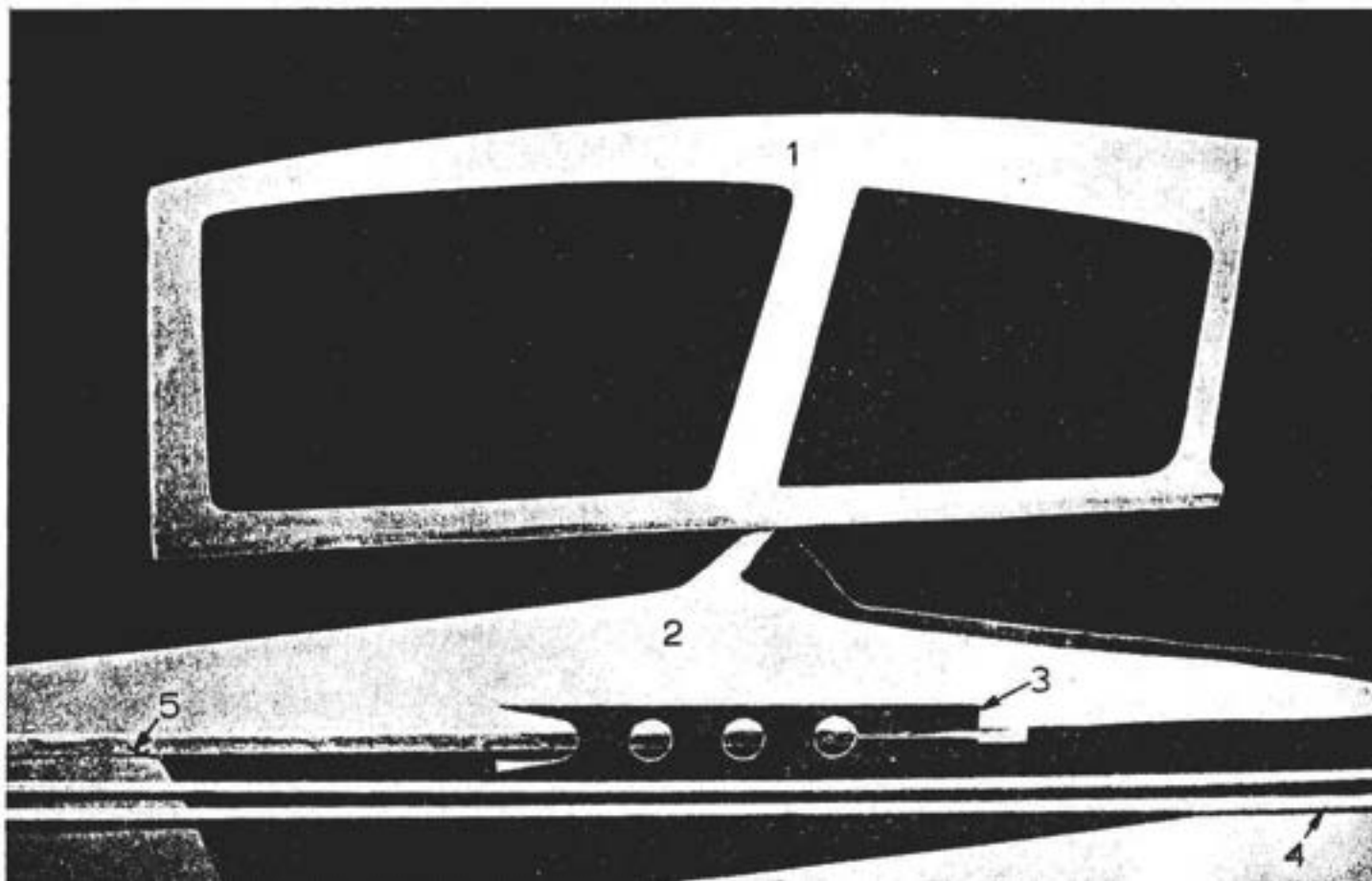


FIGURE 6.6 FIBERGLASS WINDOW FRAMES - LEFT SIDE AND DORSAL FIN

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FIGURE AND INDEX No .	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
6.5-		FIBERGLASS WINDOW FRAMES - RIGHT SIDE		
- 1	190378-0	Window and Door Frame	1	
- 2	190218-20	Baggage Door Frame	1	D
	190218-30	Baggage Door	1	E

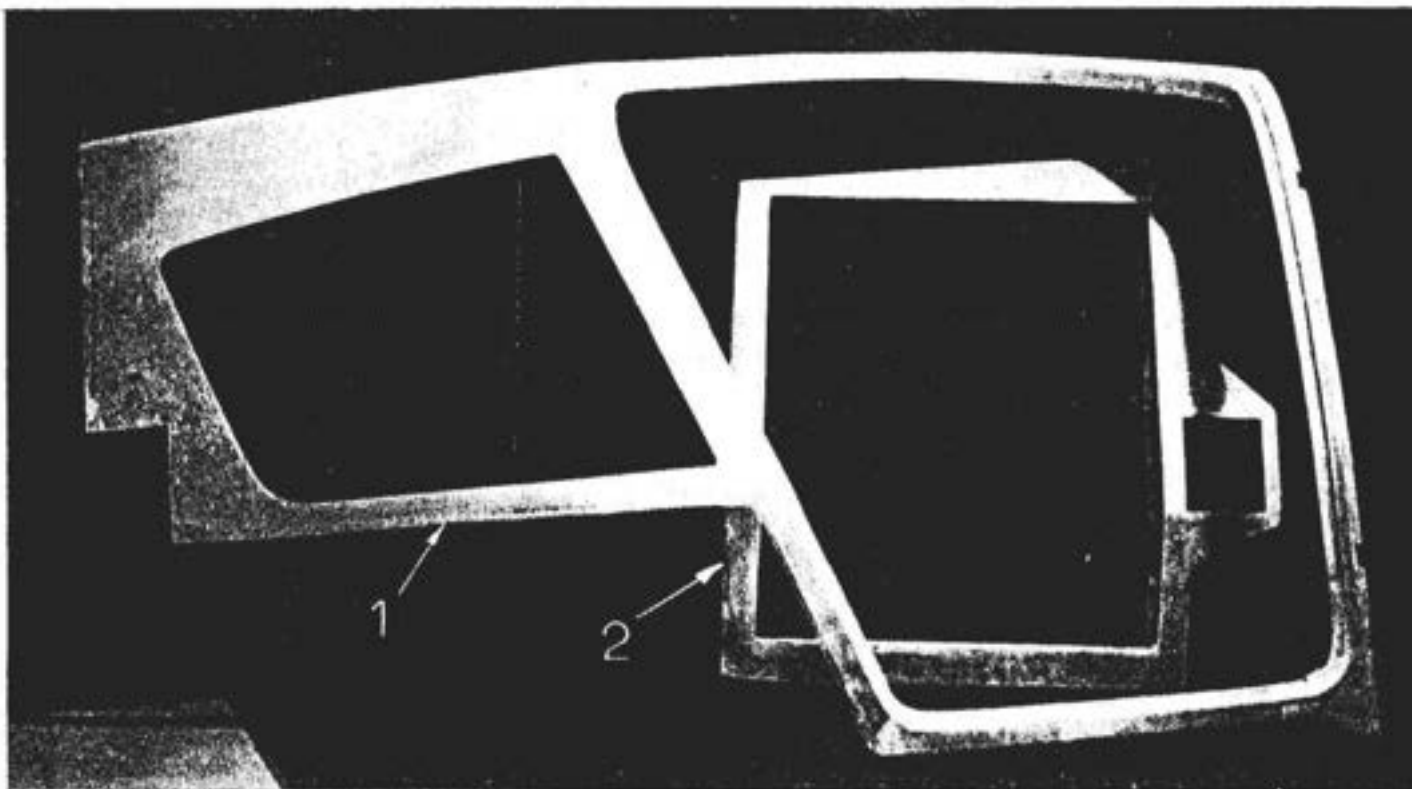


FIGURE 6.5 FIBERGLASS WINDOW FRAMES - RIGHT SIDE



6.4-

FUSELAGE FAIRINGS - BOTTOM

- 1	190211-10	Lower Fairing, Station 2	1
- 2	190205-14	Saddle	2
- 3	AN530-8-12	Screw	11
- 4	AN960D-8	Washer	2
- 5	A1778-8Z-I	Tinnerman	12
- 6	190205-27	Stringers - Left and Right	2
- 7	190084	Drain Pan	1
- 8	6 x 1/2	Screw	5
- 9	190326	Bracket - Belly Drain	1L/1R
-10	AN526-6-12	Screw	3
-11	AN960-6L	Washer	3
-12	AN365-632	Nut	3
-13	AN442A-5-8	Rivet	1
-14	AN960D-8	Washer	1
-15	AN530-8-16	Screw	1
-16	190205-13	Saddle	1
-17	190205-7	Saddle	1
-18	190205-5	Saddle	1
-19	190205-85	Stringer	1
-20	190205-86	Filler Strip	1
-21	8 x 1/4	Screw	3
-22	190205-84	Ground Strap	1

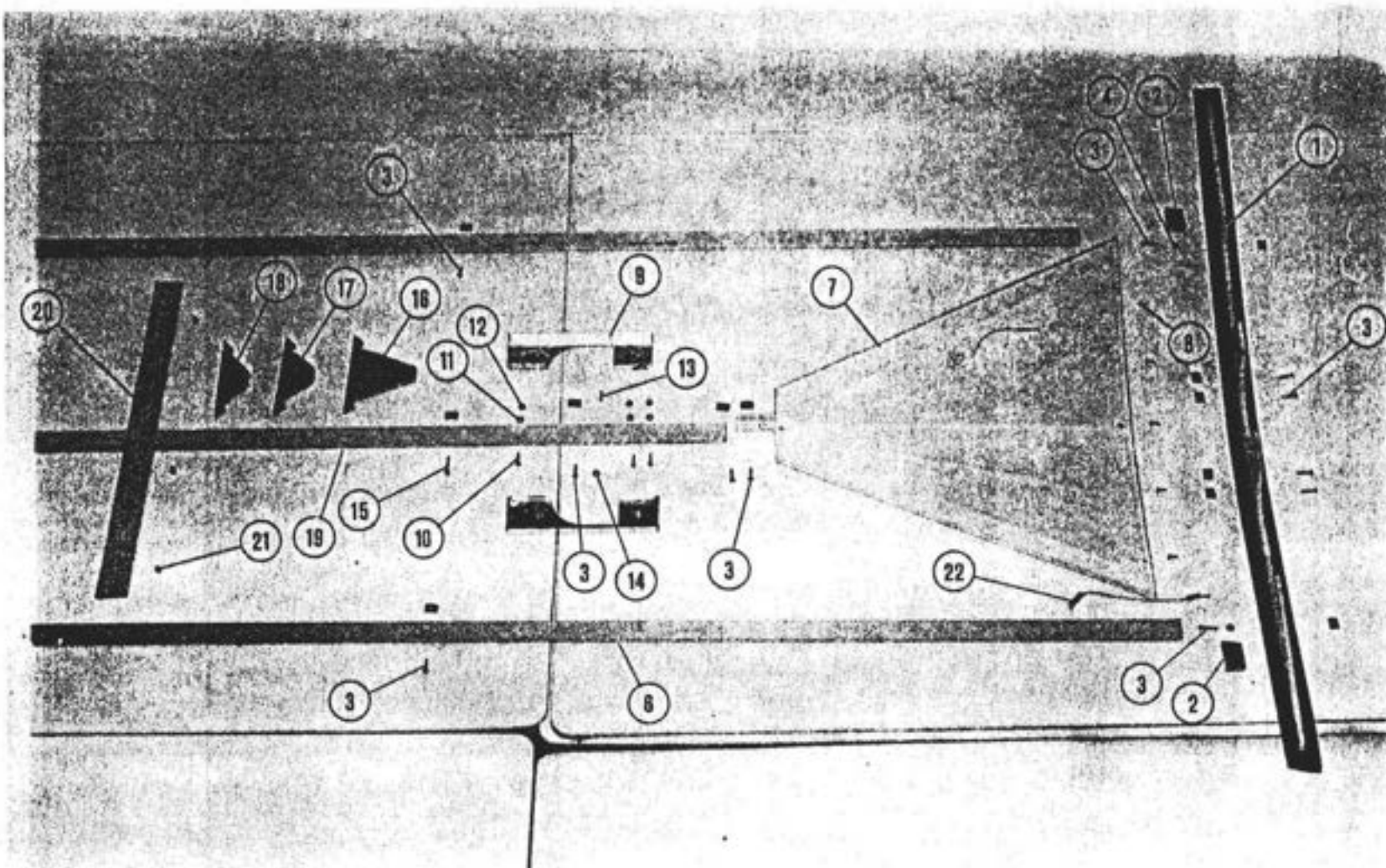


FIGURE 6.4 FUSELAGE FAIRINGS, BOTTOM

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6.3-		FUSELAGE FAIRINGS - RIGHT SIDE AND BAGGAGE COMPARTMENT SUPPORTS			
- 11	190205-24	Stringer - Right		1	
- 2	190205-6	Saddle		1	
- 3	190205-8	Saddle		1	
- 4	190205-11	Saddle		1	
- 5	190205-12	Saddle		1	
- 6	190205-42	Baggage Compartment Support (R.H. Forward)		1	
- 7	190205-39	Baggage Compartment Support (L.H, Forward)		1	
- 8	190205-64	Left Baggage Compartment Support		1	
- 9	190205-32	Left Baggage Compartment Support		1	
-10	190205-87	Support Block		1	

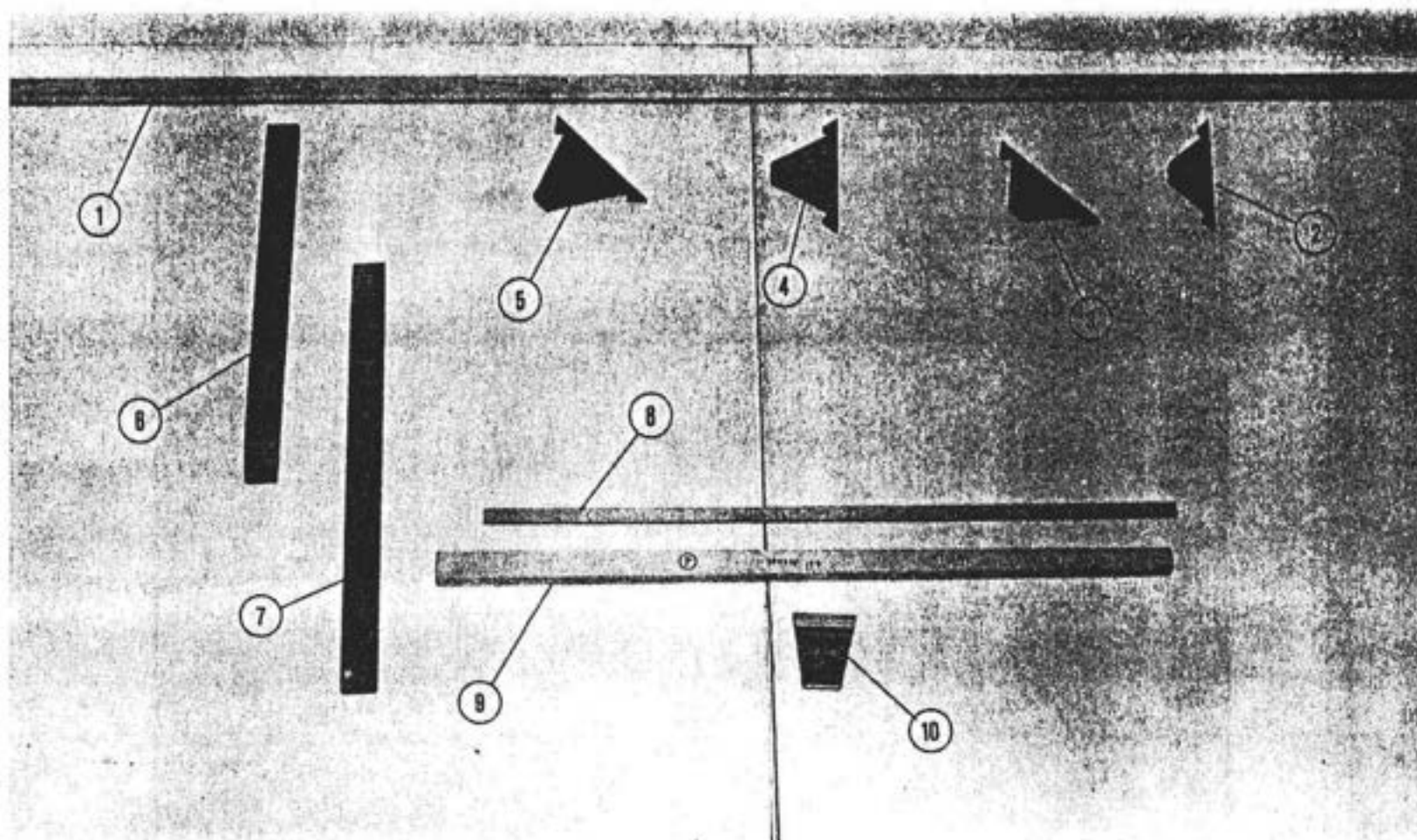


FIGURE 6.3 FUSELAGE FAIRINGS - RIGHT SIDE AND
BAGGAGE COMPARTMENT SUPPORTS



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	COPE ¹
6.2-		FUSELAGE FAIRINGS - TOP		
-1	190205-21	Gusset	1	
-2	190205-15	Top Stringer	1	
-3	AN530-8-12	Screw	9	
-4	A1778-8Z-1	Tinnerman Nut	9	
-5	190205-83	Gusset	1	
-6	190205-81	Stringer	1	
-7	190205-82	Gusset	1	
-8	190205-79	Stringer	1	
-9	190205-57	Saddle	1	
-10	190205-23	Top Stringer (R/H)	1	
-11	190205-68	Stringer	1	
-12	190205-58	Filler Strip	1	
-13	190205-59	Filler Strip	1	

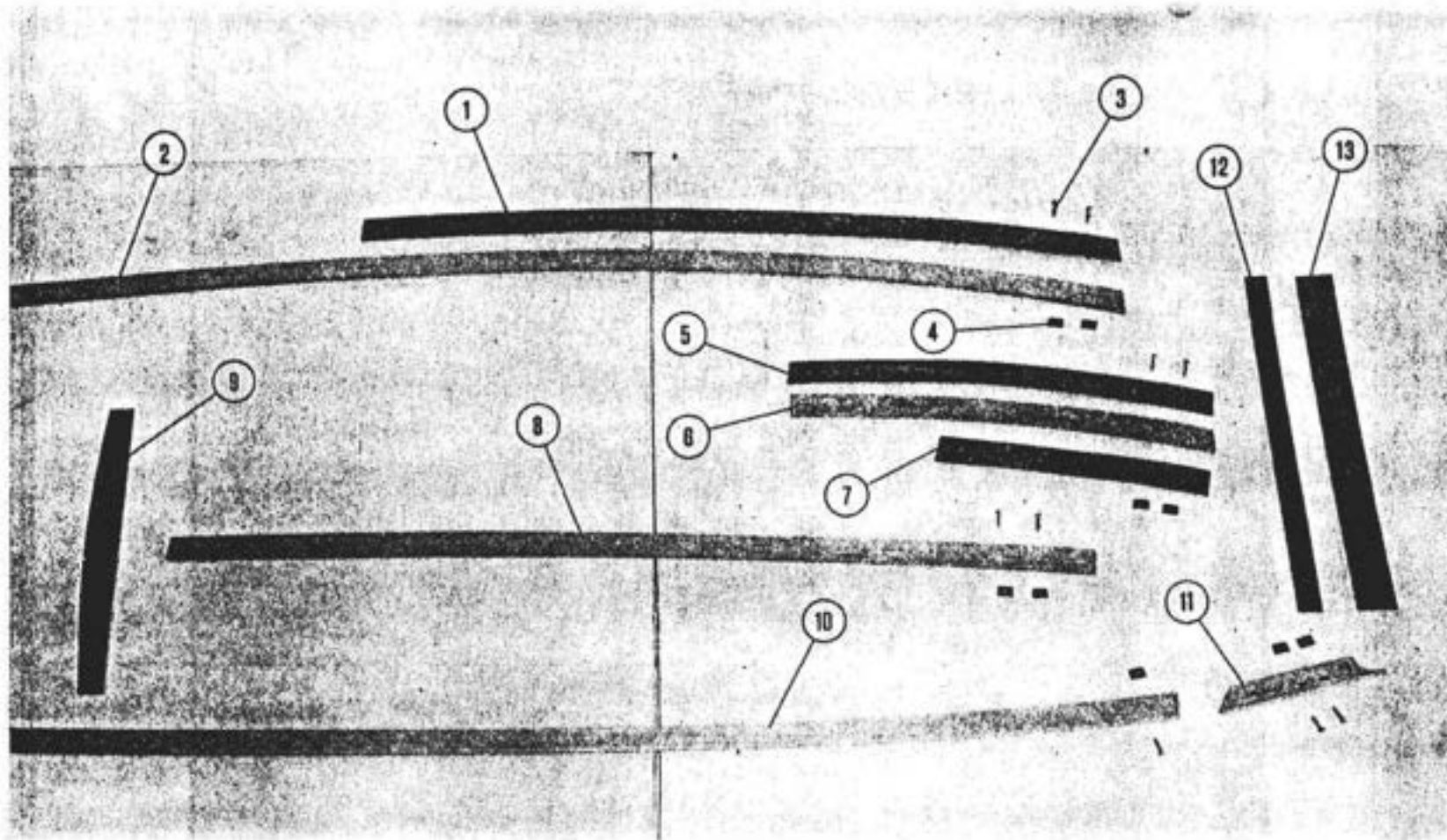


FIGURE 6.2 FUSELAGE FAIRINGS - TOP

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
6.1-		FUSELAGE FAIRINGS - LEFT SIDE		
- 1	6 x 1/2	Screw	5	
- 2	190205-36	Window Frame Support (Left, Front)	1	
- 3	AN530-8-12	Screw	3	
- 4	A1778-8Z-1	Tinnerman Nut	3	
- 5	190205-13	Saddle	1	
- 6	190205-87	Support Block (See Figure 6.3)	-	
- 7	190205-12	Saddle	1	
3	190205-11	Saddle	1	
- 9	190205-8	Saddle	1	
-10	190205-6	Saddle	1	
-11	190205-25	Stringer (Left, Aft)	1	
-12	190205-26	Stringer (Right Forward)	1	
-13	190205-50	Filler Block Assembly	1	

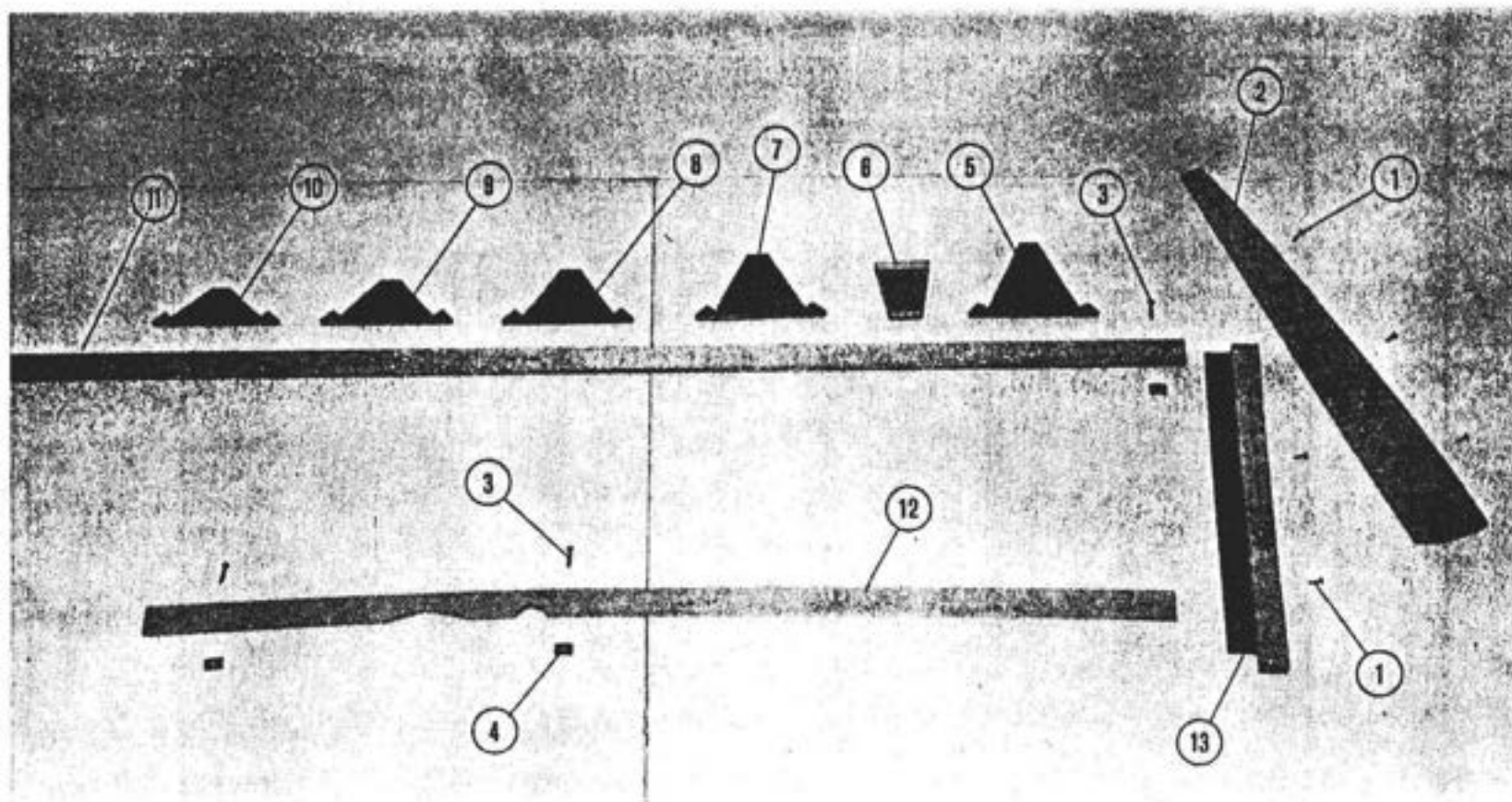


FIGURE 6.1 FUSELAGE FAIRINGS - LEFT SIDE



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
5 -		HORIZONTAL TAIL ASSEMBLY		
	193103	Horizontal Stabilizer Assembly	1L/1R	
- 1	193103-2	Rear Spar Tube	1	
- 2	193103-10	Flange Assembly	1	
- 3	193103-11	Lug	1	
- 4	193103-12	Leading Edge Tube	1	
- 5	193103-5	Drag Brace Tube	1	
- 6	193103-3	Compression Tube	1	
- 7	193103-0	Bracket Assembly	1	
- 8	193103-2Q	Bracket Assembly	1	
- 9	193103-9	Diagonal Tube	1	
-10	193103-14	Diagonal	1	
-11	193104-30	Rib Assembly	1	
-12	193104-40	Rib	1	
-13	193104-50	Rib	1	
-14	193104-60	Rib	1	
-15	193104-70	Rib Assembly	1	
-16	193104-80	Rib	1	
-17	193104-90	Rib Assembly	1	
-18	198005-1	Hinge	3	

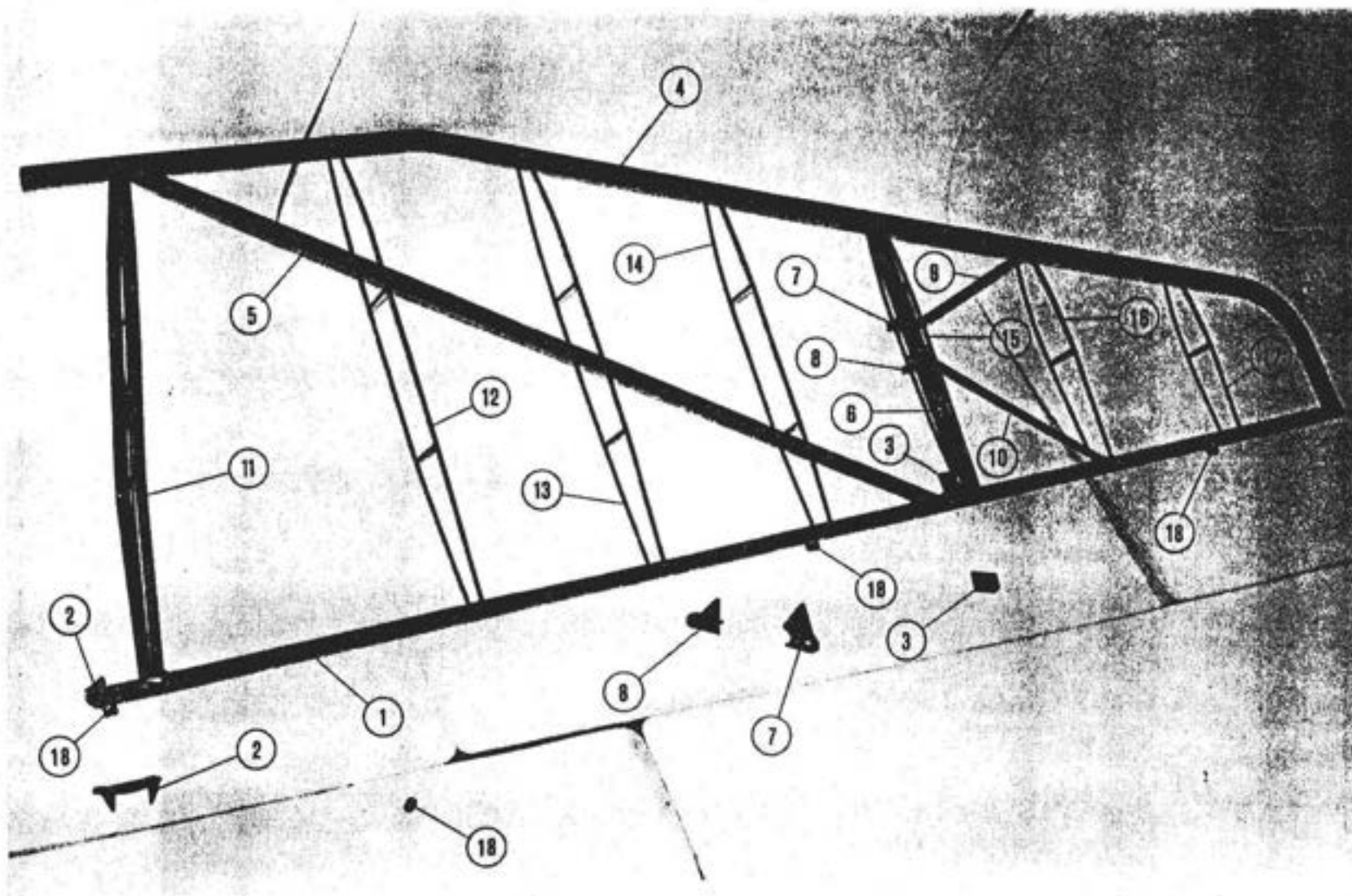
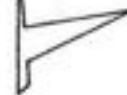


FIGURE 5. HORIZONTAL TAIL ASSEMBLY

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	FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
	4 - - 1	193132	COVERING - TAIL SURFACES Covering - Tail Surfaces	1		

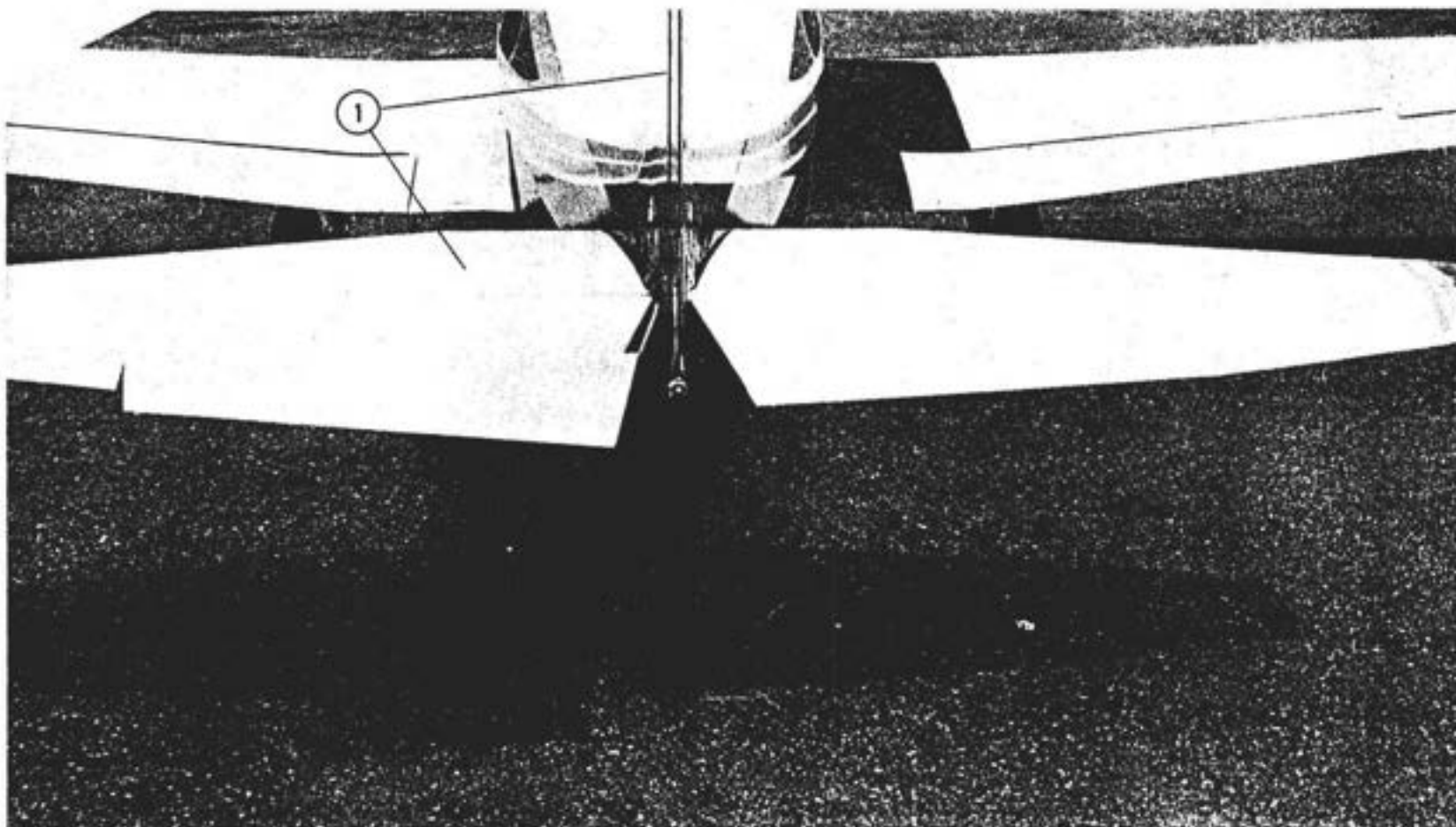


FIGURE 4. COVERING - HORIZONTAL TAIL

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
3.2-		VERTICAL TAIL FIN		
1	190202	Vertical Tail Fin	1	

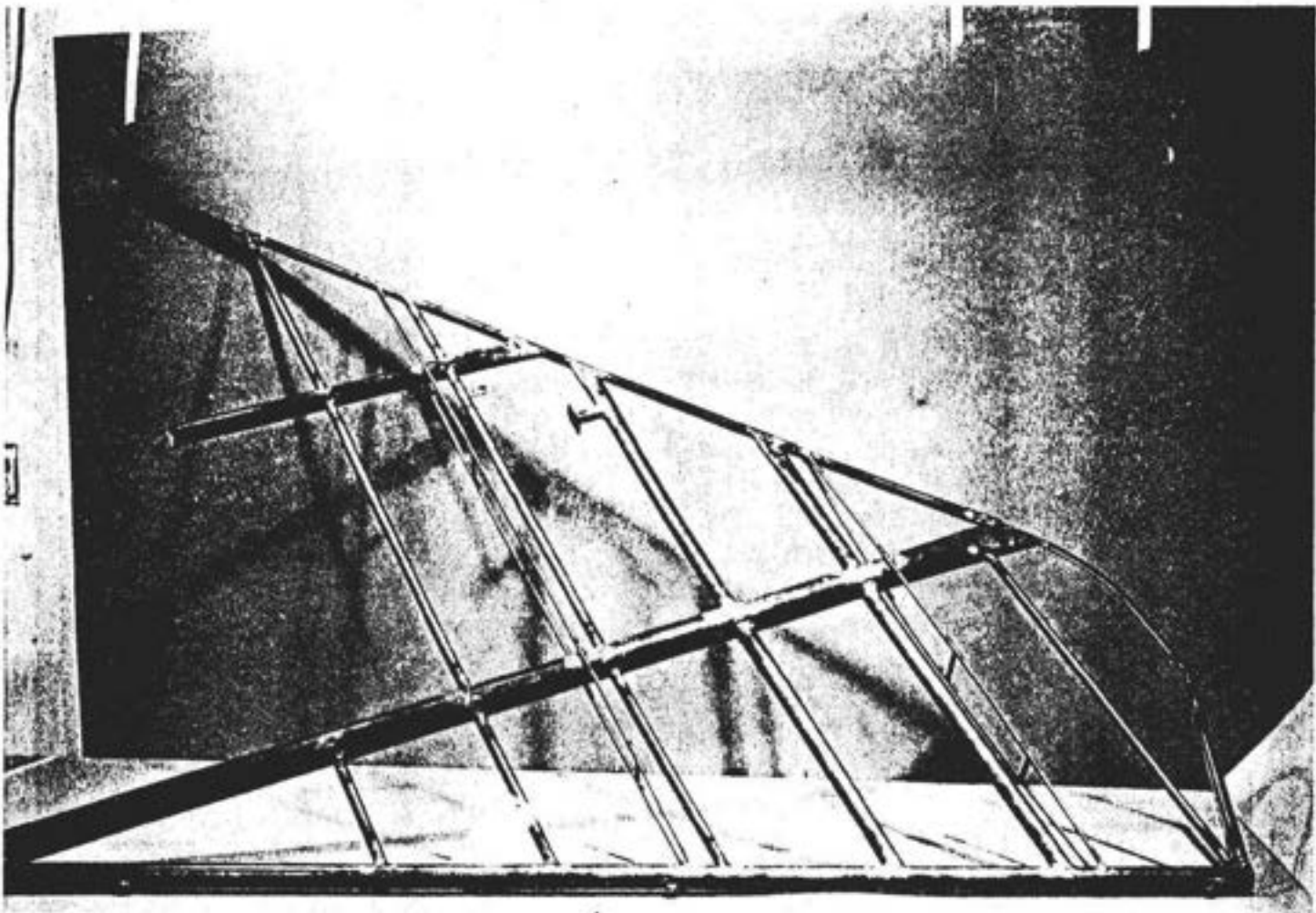


FIGURE 3.2 VERTICAL TAIL FIN

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
3.1-		FUSELAGE - TOP TRUSS			
1	190202	Fuselage Top Truss	1		

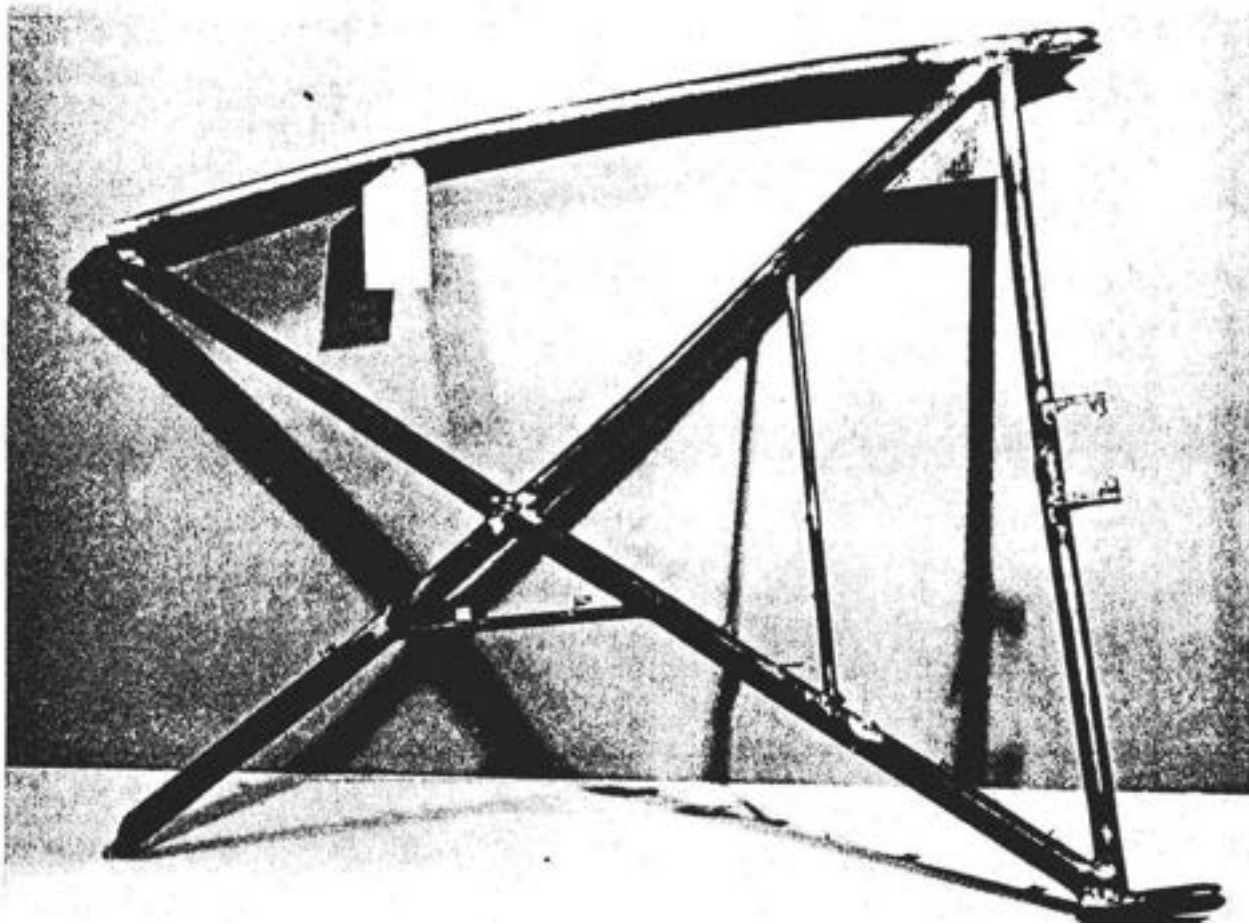


FIGURE 3.1 FUSELAGE - TOP TRUSS

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE	
2.3-		FUSELAGE WING TRUSS CARRY-THROUGH. SPAR			
- 1	190202	Fuselage Wing Truss Carry-Through Rear Spar.....			

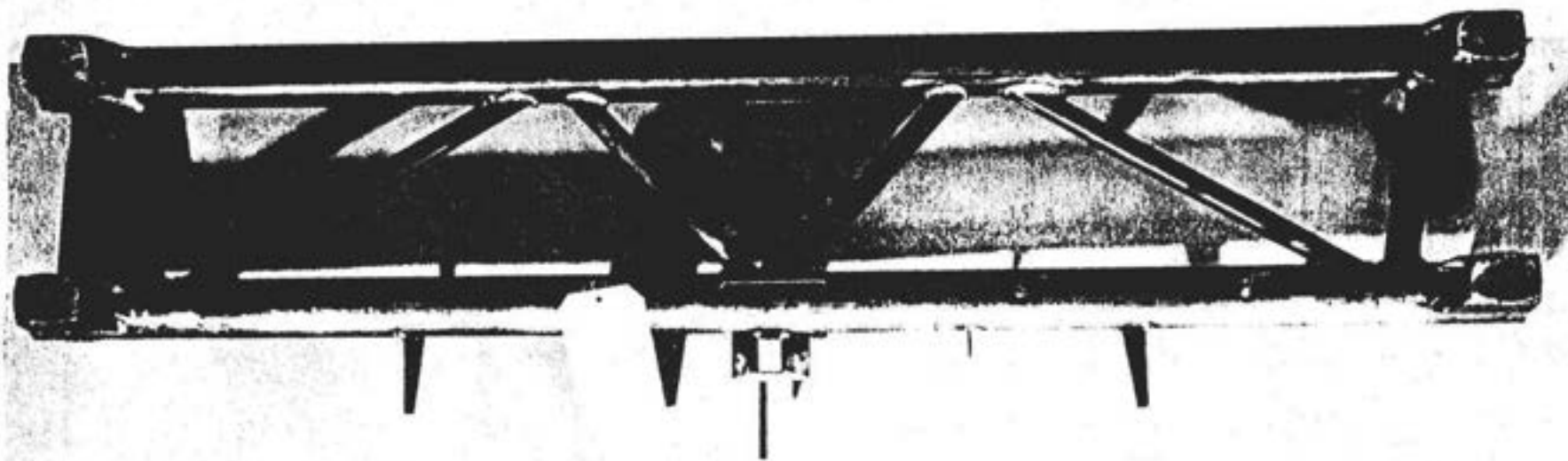
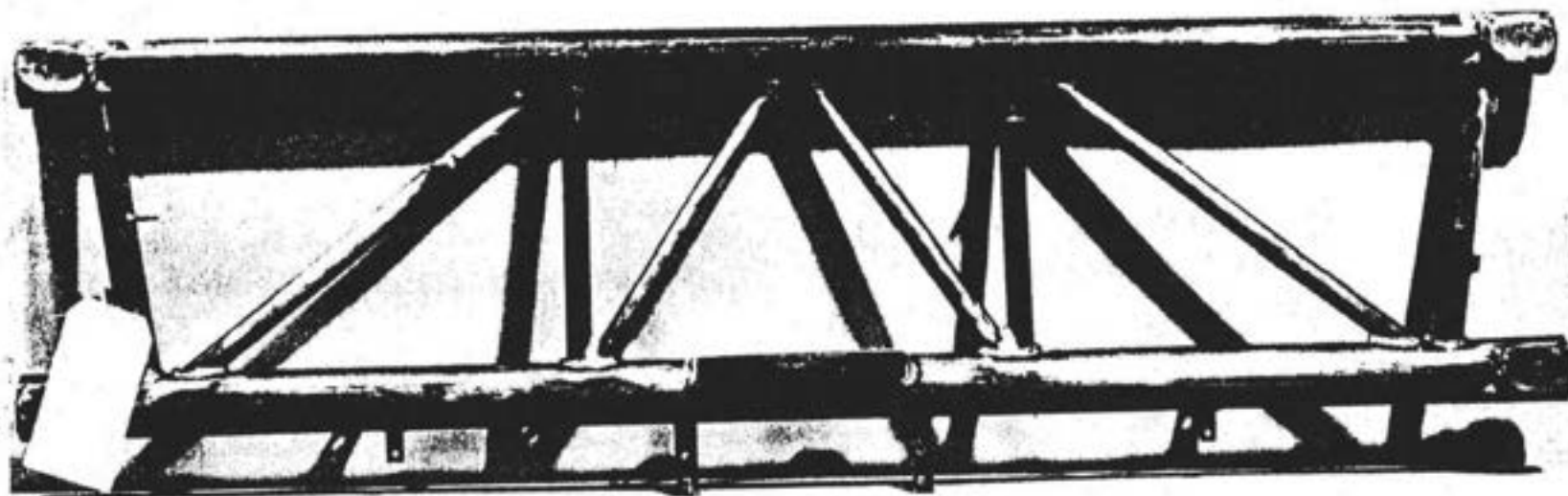


FIGURE 2.3 FUSELAGE WING TRUSS CARRY- THROUGH, REAR SPAR

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
2.2- - 1	190202	FUSELAGE WING TRUSS CARRY-THROUGH, SPAR Fuselage Wing Truss Carry-Through, Front Spar...	1	



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FIGURE 2.2 FUSELAGE WING TRUSS CARRY-THROUGH, FRONT SPAR

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	FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
	2.1- - 1	190202	FUSELAGE SECTION - STATIONS 1 THROUGH 2 Fuselage - Station 1 Through Station 2..	1	

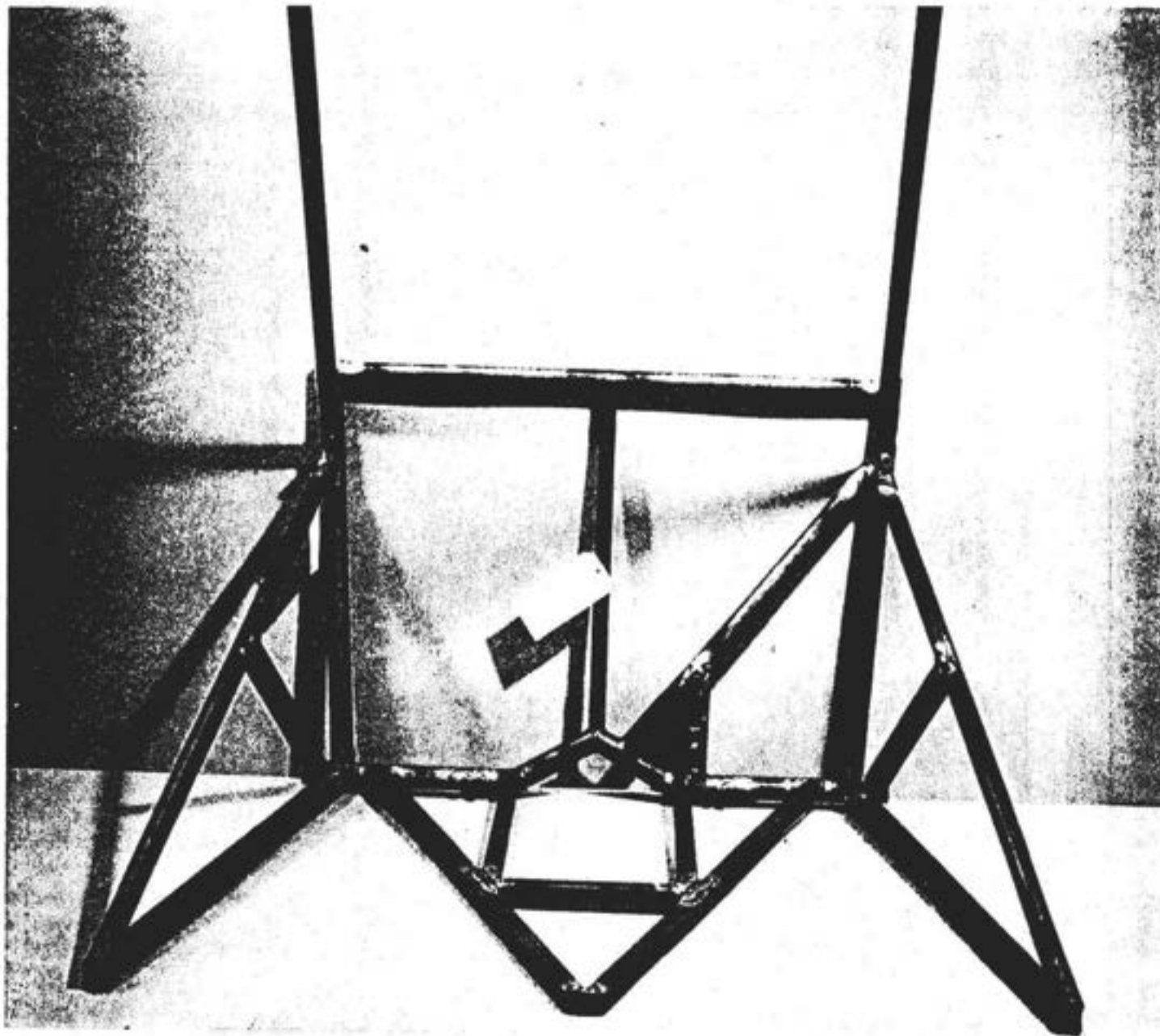


FIGURE 2.1 FUSELAGE SECTION - STATIONS 1 THROUGH 2

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
		COVERING - FUSELAGE AND VERTICAL TAIL		
- 1	190205	Fuselage, Fairing Assembly Less Covering..	1	
- 2	190206	Fuselage, Fairing Assembly Covered through Second Coat Of White Finish.....	1	

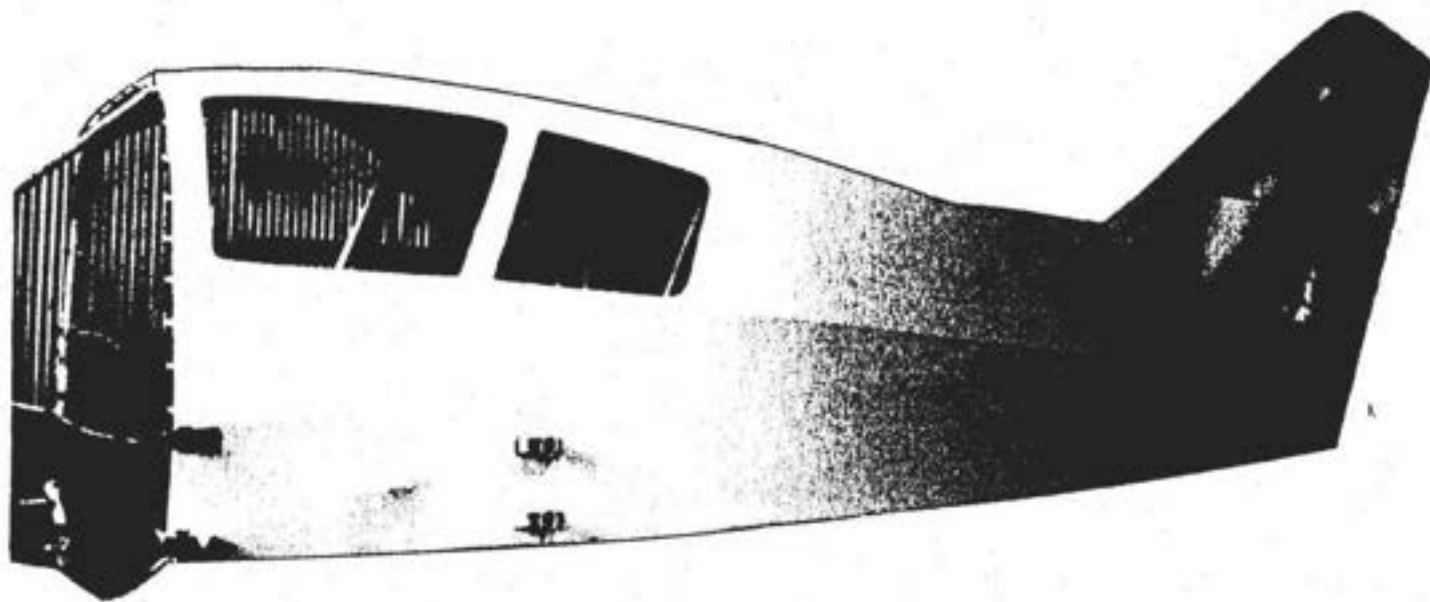


FIGURE 1. COVERING - FUSELAGE AND VERTICAL TAIL

FIG, 7-16 NOSE GEAR STRUT
AIRCRAFT SN'S 79-30906 AND

ASSEMBLY
ABOVE

ITEM	PART #	
	194440	NOSE GEAR UPPER LEG
2	1468E6	AIR INFLATION VALVE
3	AN960-716	WASHER
4	AN364-720	NUT
5	19402-2	SPRING
6	19445-3	SPRING ACTUATOR
7	AN6227B7	O-RING
8	194377-10	OLEO PISTON
9	RS-187	RETAINING RING
10	194329	BRONZE BUSHING
	198004-176	SPACER BUSHING
12	AN6230B5	O-RING
13	194331-2	O-RING BUSHING
14	AN6227B31	O-RING
15	194151-3	WIPER SEAL
16	19442-2	RETAINER .RING
17	19442-1	RETAINER RING
18	3000-225	SNAP-RING RETAINER
19-26	19 ¹ 4340-20	LOWER LEG & FORK ASSY
19	AN6227B25	O-RING
20	19451-1	PLUG
21	194337-2	LOWER LEG TUBE
22	194156-70	FORK ASSEMBLY
23	AN4-24A	BOLT
24	AN960-416	WASHER (2)
25	AN364-428	NUT
26	1637B1	45° GREASE FITTING
27	901854	PISTON RING, OLEO PISTON

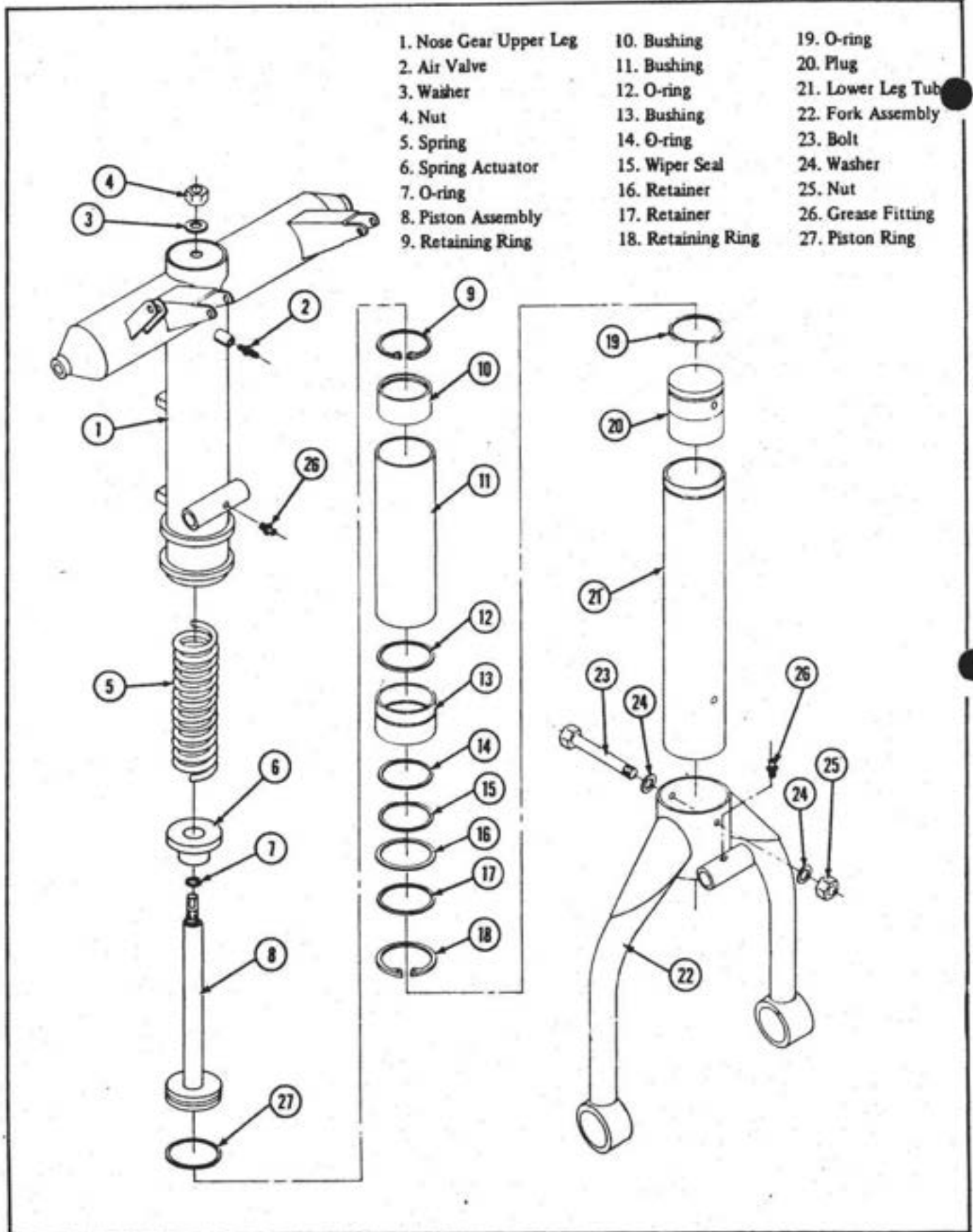


Figure 746. Nose Gear Strut, Aircraft Serial Numbers 79-30906 and above.

FIG. 7-12. NOSE GEAR DOOR INSTALLATION
AIRCRAFT SN'S 79-30906 AND ABOVE.

ITEM	PART NUMBER	DESCRIPTION	ITEM	PART NUMBER	DESCRIPTION
1	AN380-2-2	COTTER PIN (4)	23	AN310-6R	NUT (2)
2	AN310-3	NUT (2)	24	AN960-616	WASHER (2)
3	AN960-10	WASHER (10)	25	AN6-25	BOLT
4	AN3-6	BOLT (2)	26	AN6-11	BOLT
5	AN364-1032A	NUT	27	194451-0	NOSE GEAR DOORS CYLINDER
6	194487-1	SPACER BUSHING	28	194606-0	STRAP ASSEMBLY
7	AN3-34A	BOLT	29	195711-1	SPRING
8	198001-9	ROD END BEARING (2)	30	AN310-5	NUT
9	194489-1	LINK (2)	31	198004-181	BRONZE BUSHING
10	AN315-3R	NUT (2)	32	194606-10	STRAP ASSEMBLY
11	AN365-1032A	NUT (6)	33	AN960-516	WASHER (as req'd)
12	AN509-10R10	SCREW (4)	34	AN365-1032A	NUT (2)
13	194484-0	STRUT DOOR	35	AN5-26	BOLT (2)
14	AN380-2-3	COTTER PIN (2)	36	AN365-1032A	NUT (2)
15	AN960-10	WASHER (4)	37	AN3-15A	BOLT (2)
16	AN960-416	WASHER (4)	38	194457-1	SPLIT BEARING BLOCK
17	194507-1	SPACER BUSHING (2)	39	FF838-1	FLANGED BEARING
18	AN3-10A	BOLT (2)	40	194474-10	R.H. NOSE GEAR DOOR
19	AN310-4	NUT (2)	41	194474-0	L.H. NOSE GEAR DOOR
20	AN960-416L	WASHER (2)	42	194448-0	TORQUE TUBE, GEAR DOORS
21	AN24-13	CLEVIS BOLT (2)	43	194450-0	CYLINDER ATTACH. BRACKET
22	194513-0	ROD ASSEMBLY (2)	NI	198004-182	BRONZE BUSHING FOR 194606-0 STRAP ASSEMBLY
			NI	X-553	"P" STRIP RUBBER SEAL, L.H. DOOR (30" REQ'D)

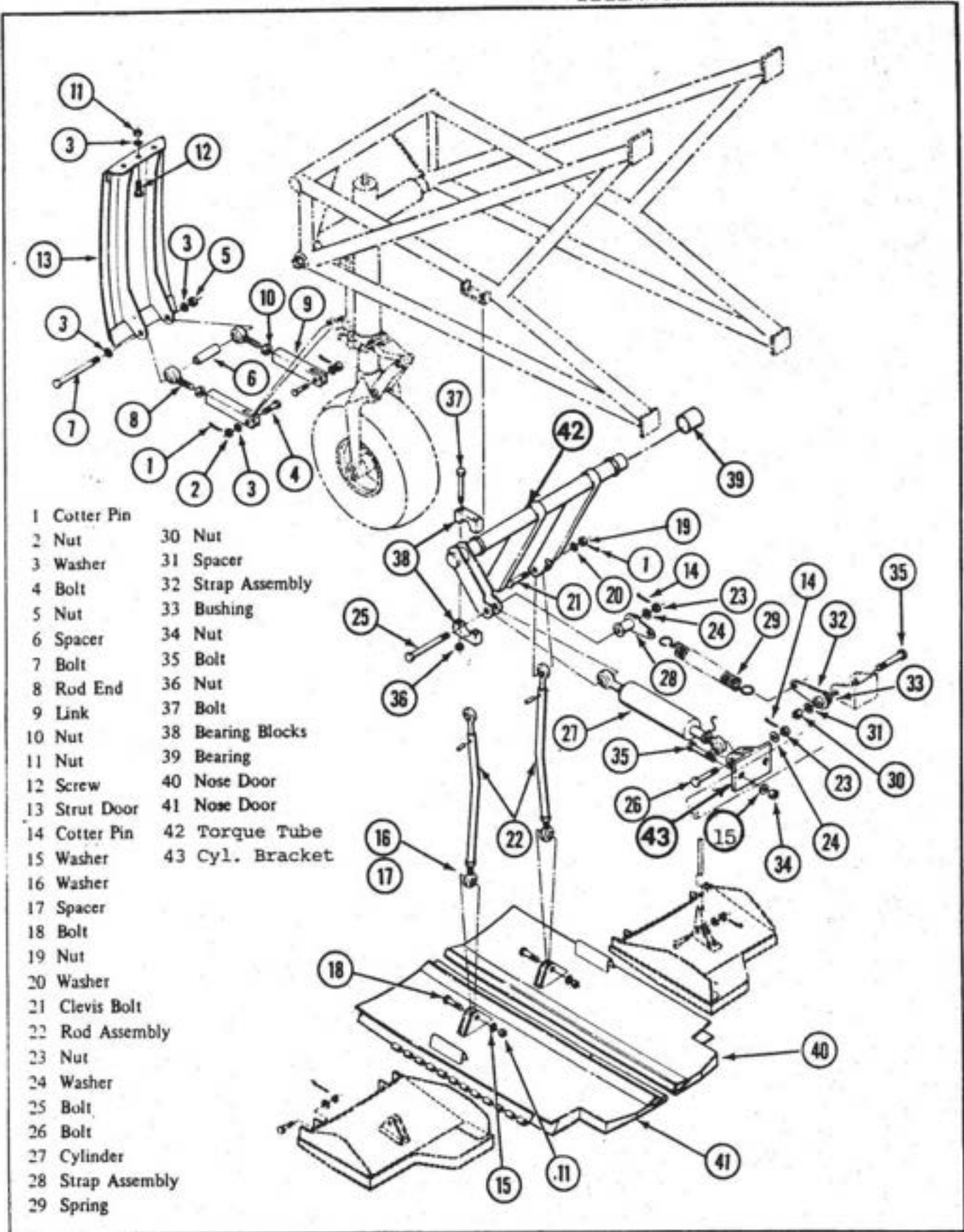


Figure 742. Nose Gear or Installation, Aircraft Serial Numbers 79-30906 and above.

FIG. 7-11 NOSE GEAR INSTALLATION
AIRCRAFT SN'S 79-30906 AND ABOVE.

ITEM	PART NUMBER	DESCRIPTION
58	194525-1	END PLUG, SHIMMY DAMPENER (2)
59	AN21-10A	CLEVIS BOLT, STEERING COLLAR
60	AN364-640	NUT
61	AN960-6	WASHER
62	198004-61	STEEL BUSHING, SCISSORS (4)
63	198004-60	BRONZE BUSHING, SCISSORS (2)
NI	198004-164	BRONZE BUSHING, 194412-0 STEERING LINK
NI	194480-1	TEFLON LINING, STEERING COLLAR
NI	198004-162	BRONZE BUSHING, 194410-0 TORQUE TUBE
64	194368	BRONZE BUSHING, NOSE GEAR FORK

FIG. 7-11 NOSE GEAR INSTALLATION
AIRCRAFT SN'S 79-30906 AND ABOVE

ITEM	PART NUMBER	DESCRIPTION	ITEM	PART NUMBER	DESCRIPTION
1	194610-1	AXLE, NOSE WHEEL	29	AN310-6	NUT (3)
2	194609-1	BOLT, AXLE	30	AN936A10	LOCK WASHER (4)
3	194611-1	SPACER, AXLE (2)	31	AN960-10	WASHER (8)
4	194187	PLUG, AXLE (2)	32	AN960-616	WASHER (A/R)
5	194209-10	UPPER SCISSORS	33	194509-1	SPACER, STEERING COLLAR
6	194209-40	LOWER SCISSORS, W/STOP	34	AN960-616	WASHER (8)
7	194340-20	LOWER LEG & FORK ASSEMBLY	35	AN960-616	WASHER (A/R)
8	194409-1	BEARING, TORQUE TUBE (2)	36	AN960-716	WASHER
9	194409-2	BEARING, TORQUE TUBE (2)	37	AN364-1032	NUT
10	194410-0	TORQUE TUBE, STEERING	38	AN364-720	NUT, OLEO PISTON
11	194412-0	STEERING LINK	39	MS24665-132	COTTER PIN (3)
12	194449-0	STEERING COLLAR ASSEMBLY	40	MS24665-134	COTTER PIN (3)
13	194458-1	CLAMP-UP BUSHING, RETRACT STRUT LUG	41	AN365-624	NUT (2)
14	MS20002C6	WASHER	42	B792MH-817099	GREASE FITTING, STRAIGHT (3)
15	194458-6	CLAMP-UP BUSHING, SHIMMY DAMPENER	43	1637B1	GREASE FITTING, 45° (2)
16	194463-1	BOLT, SCISSORS-SHIMMY DAMP.	44	15 x 6.00 x 6	TIRE
17	194613-0	SHIMMY DAMPENER ASSEMBLY	45	40-76C	WHEEL, CLEVELAND
18	194488-1	BRACKET, DOOR ATTACHING	46	1468E6	VALVE, AIR INFLATION
19	198004-138	BRONZE BUSHING, STEERING COLLAR	47	AN7-25	BOLT, GEAR TO MOUNT (2)
20	194440-10	UPPER LEG ASSEMBLY	48	AN310-7	NUT (2)
21	AN3-7	BOLT, STEERING LINK	49	AN960-716L	WASHER (2)
22	AN3-11	BOLT, STEERING LINK	50	MS24665-285	COTTER PIN (2)
23	AN3-13A	BOLT, BEARINGS (4)	51	194458-4	CLAMP-UP BUSHING (2)
24	AN3-15A	BOLT, STEERING COLLAR	52	MS000-93MD	SNAP RING, SHIMMY DAMPENER (2)
25	AN3-16	BOLT, SHIMMY DAMPENER	53	MS28775-018	O-RING, SHIMMY DAMPENER (2)
26	AN6-30	BOLT, SCISSORS TO NOSE GEAR FORK	54	MS28775-115	O-RING, SHIMMY DAMPENER
27	19404-3	BOLT, SCISSORS TO SCISSORS	55	MS28774-110	BACK-UP RING, SHIMMY DAMP. (2)
28	NAS464P3-8	BOLT, SHIMMY DAMPENER SHAFT	56	MS28775-110	O-RING, SHIMMY DAMPENER (2)
	AN310-3	NUT (3)	57	194526-10	SHAFT/PISTON ASSEMBLY, SHIMMY DAMPENER

- CONT. -

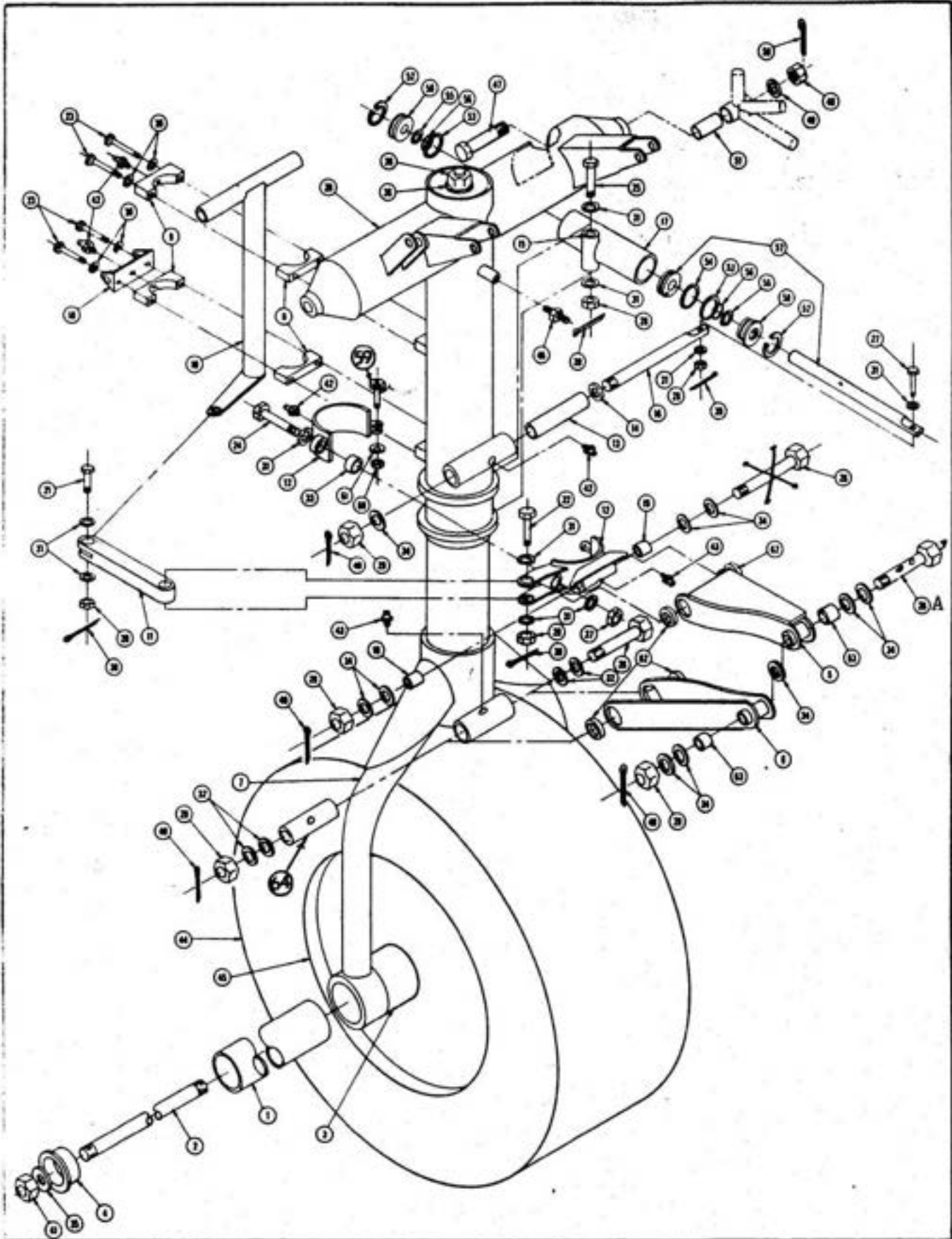


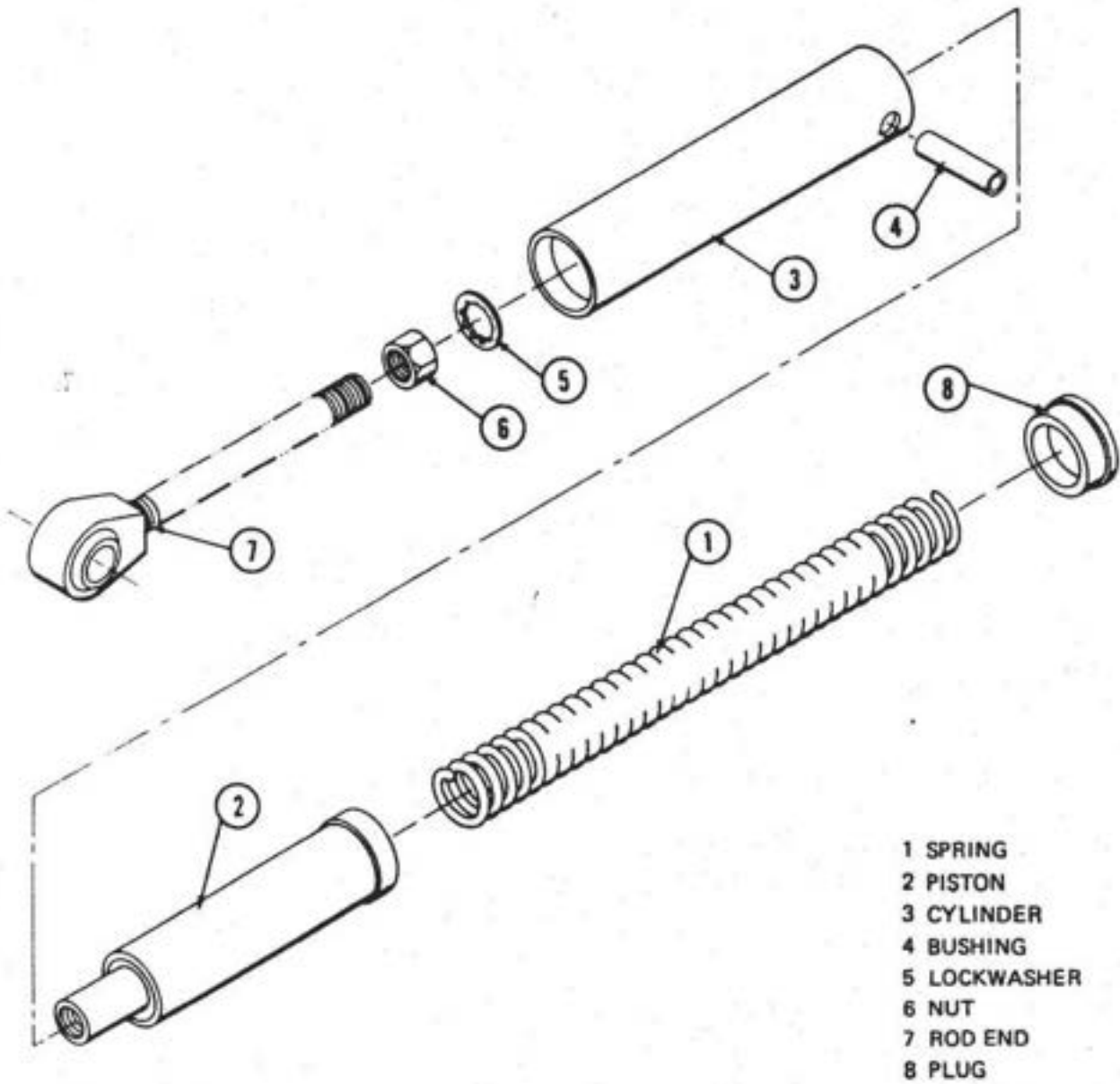
Figure 7-11. Nose Gear Installation, Aircraft Serial Numbers 79-30906 and above.

7-22 FIGURE 7-11 IS DRAWN INCORRECTLY. ITEM "26", ANG-30 BOLT, WHICH HAS BEEN "XED" OUT, IS ACTUALLY IN THE POSITION THAT THE ITEM "16", 194436-1 SCISSORS/SHIMMY DAMPENER BOLT SHOULD BE SHOWN. EXCEPT FOR ITEM "13", 194458-1 CLAMP-UP BUSHING, ALL ITEMS USED IN CONNECTION WITH THE 194436-1 BOLT SHOULD ALSO MOVE DOWN TO THIS POSITION

Issued 9-79

FIG, 7-7: NOSE GEAR SPRING EXTENSION
AIRCRAFT SN'S 79-30906, AND ABOVE

ITEM	PART NUMBER	DESCRIPTION
1	19465-5	SPRING
2	194467-0	PISTON (INNER EXTENSION)
3	194466-0	CYLINDER (OUTER EXTENSION)
4	198004-35	BUSHING
5	AN936A416	LOCK WASHER
6	AN316-4R	NUT
7	198001-2	ROD END BEARING
8	194381-1	PLUG
9	194468-0	NOSE GEAR LOCKDOWN ASSEMBLY (ALL OF ABOVE PARTS)



194468-0 NOSE GEAR LOCKDOWN ASSEMBLY

Figure 7-7. Nose Gear Extension Spring Assembly, Aircraft Serial Numbers 79-30906 and above.

FIG. 7-5. NOSE GEAR ACTUATING
CYLINDER AIRCRAFT S N'S 79-30906
AND ABOVE

ITEM	PART NUMBER	DESCRIPTION
1	198001-1	Rod End Bearing (2)
2	NAS509-6	Check Nut
3	5000-125	Retaining Ring (2)
4	195578	End Plug
5	AN6227B19	O-Ring (3)
6	195574-2	Barrel
7	195318	Lock Cap
8	8-214	Back-up Ring
9	195547	Piston
10	195320	Lock Ring (2)
11	8-012	Back-up Ring
12	AN6227B7	O-Ring
13	195741-2	Shaft
14	8-113	Back-Up Ring
15	AN6227B11	O-Ring
16	195742-1	End Plug, Shaft End
17	195577-3	Sleeve
18	AN823-4D	Elbow, 45 ⁰
19	AN822-4D	Elbow, 90 ⁰
NI	194446-0	Cylinder Assembly

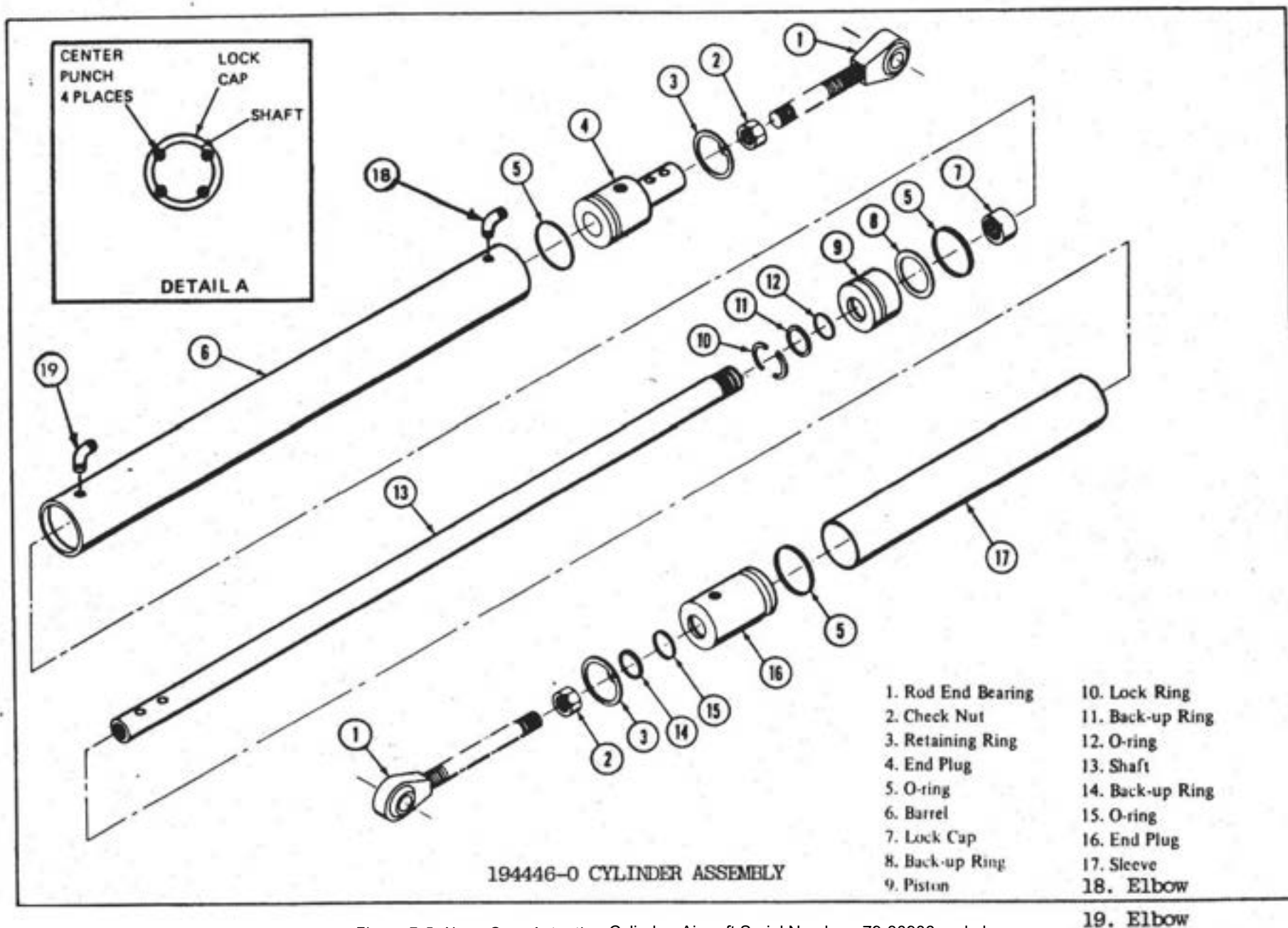


Figure 7-5. Nose Gear Actuating Cylinder. Aircraft Serial Numbers 79-30906 and above.

FIG. 7-3: NOSE GEAR ACTUATING CYLINDER AND DRAG STRUTS
AIRCRAFT SN's 79-03906 and above

ITEM	PART NUMBER	DESCRIPTION
1	194446-0	NOSE GEAR ACTUATING CYLINDER
2	194442-1-2	RIGHT UPPER STRUT BRACKET (PART OF UPPER STRUT)
3	198001-1	ROD END BEARING
4	194438-0	UPPER DRAG STRUT
5	194468-0	NOSE GEAR LOCKDOWN ASSEMBLY
6	AN5-10	DRAG STRUT CONNECTING BOLT (2 REQ'D)
7	194439-0	LOWER DRAG STRUT
8	194440-0	UPPER STRUT, NOSE GEAR
9	194383-10	R. H. FIREWALL BRACKET, DRAG STRUT
9	194383-0	L. H. FIREWALL BRACKET, DRAG STRUT
10	195578	PIVOT END PLUG, ACT. CYLINDER
11	195741-2	SHAFT, ACT. CYLINDER
12		WITNESS HOLES IN PLUG AND SHAFT
13	198001-1	ROD END BEARING
14	194442-3	CENTER UPPER STRUT BRACKET (PART OF UPPER STRUT)
15	NAS509-6	JAM NUT (2 REQ'D)
16	.041	STAINLESS STEEL SAFETY WIRE
17	194540-1	NOSE GEAR EMERGENCY EXTENSION SPRING
18	194545-0	ROD END LINK ASSEMBLY, NOSE GEAR EMERGENCY EXTENSION
19	194543	LEFT UPPER STRUT BRACKET (PART OF UPPER STRUT)
N1*	194458-2	CLAMP-UP BUSHING (USED WITH AN5-10 BOLT, 2 REQ'D)
N1	AN5-33	BOLT, LOWER DRAG STRUT TO UPPER LEG

* NOT ILLUSTRATED

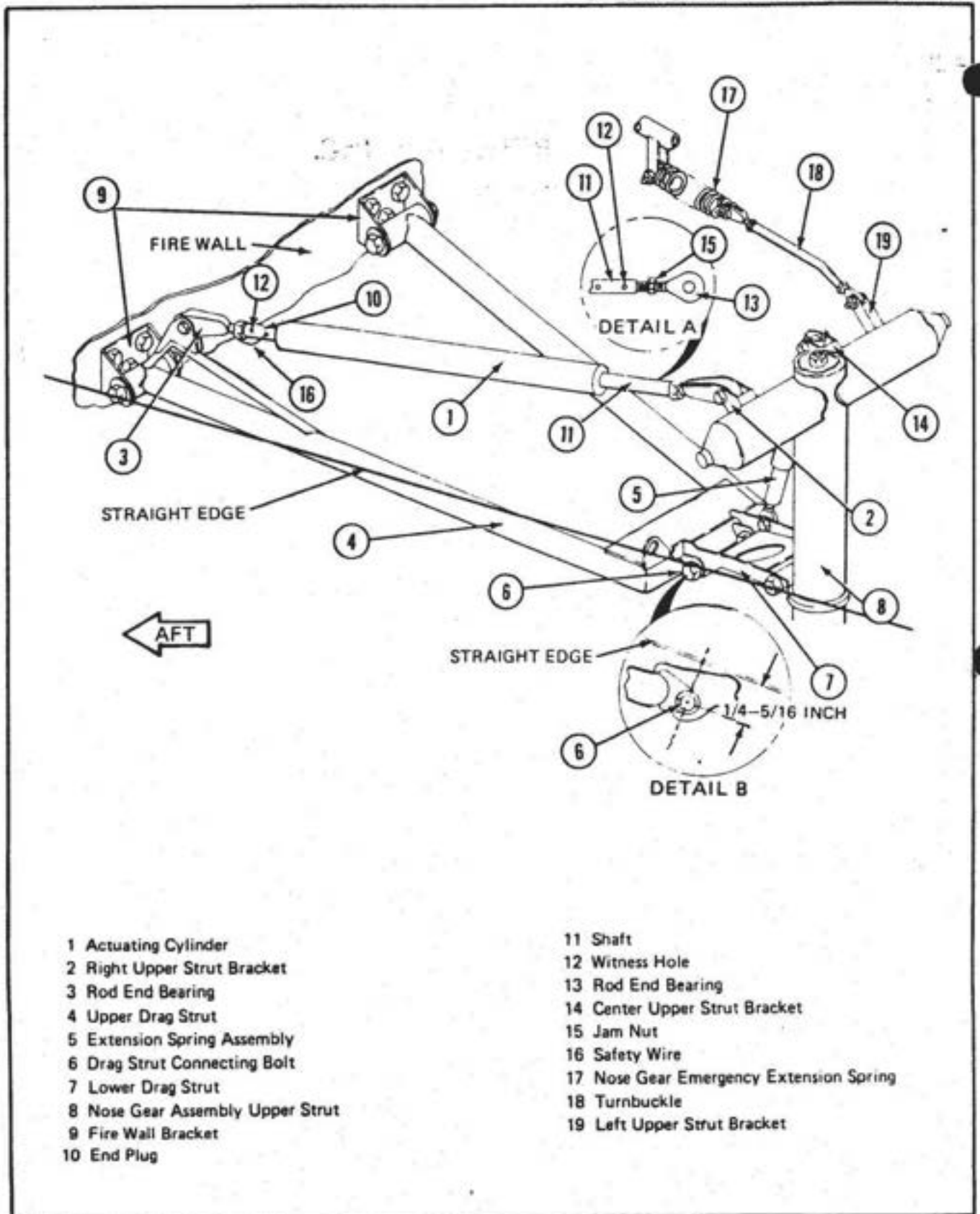


Figure 7-3. Nose Gear Actuating Cylinder, Drag Struts, and Nose Gear Extension Spring,

Aircraft Serial Numbers 79-30906 and above.

BELLANCA, INC.

Municipal Airport - Box 964

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PARTS MANUAL SUPPLEMENT

MODEL 17-30A

SN 79-30906 AND UP

BELLANCA Illustrated Parts Catalog

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| 96. | Installation - Radio Board, Battery Box and Battery Cables |
| 97. | (Intentionally Left Blank) |
| 98. | (Intentionally Left Blank) |

SECTION XI GENERAL

- | | |
|-----|----------|
| 99. | Placards |
|-----|----------|

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75.	(Intentionally Left Blank)
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78.	Engine Baffles - Models 17-31A and 17-31ATC
79.	(Intentionally Left Blank)
80.	Air Induction Installation - Model 17-30A
81.	Air Induction Installation - Model 17-31A
82.	Air Induction Installation - Model 17-31ATC
83.	Exhaust System Assembly - Model 17-30A
84.	Exhaust System Assembly - Model 17-31A
85.	Exhaust System Assembly - Model 17-31ATC
86.	(Intentionally Left Blank)
87.	(Intentionally Left Blank)
88.	(Intentionally Left Blank)
89.	Power Plant Controls - Model 17-30A
90.	Power Plant Controls - Models 17-31A and 17-31ATC
91.	(Intentionally Left Blank)

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93.	Fuel System - Wing Tanks
93.2	Fuel System - Fuselage
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55.	Cylinder Assembly - Nose Gear
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58.1	Main Gear Doors
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| 36. | Control Column Installation |
| 37.1 | Aileron Control System Installation |
| 37.2 | Aileron Actuating Arm Assembly |
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19.	wing Ribs - Stations 5, 6, 7 and 8
20.	wing Ribs - Stations 9, 10, 11 and 12
21.	wing Ribs - Stations 13, 14, 15 and End Cap (16)
22.	wing Hardware
23.	Front Spar Leading Edge Ribs
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6.2	Fuselage Fairings - Top
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6.4	Fuselage Fairings - Bottom
6.5	Fiberglass Window Frames - Right Side
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7.	(Intentionally Left Blank)
8.	Installation - Stabilizer Struts
9.1	Installation - Step
9.2	Installation - Aircraft Tie Downs
10.1	Wraparound Cowling
10.2	Windshield, Compass & OAT Installation
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12.2	Cabin Door - Interior
12.3	Cabin Door Hardware
13.	Lower Cabin Door Lock Assembly
14.	Baggage Compartment Door

BELLANCA**Illustrated Parts Catalog****LOG OF REVISIONS**

REV. NO	REVISED PAGES	REVISION ENTRY	
		DATE	SIGNATURE
1	Deleted Figures 53, 61 and 93. Deleted Parts Lists for Figures 53, 61 and 93. Added Figures 53.1, 53.2, 53.3, 53.4, 57.1, 57.2, 61.1, 61.2, 65.3, 93.1, 93.2 and 93.3. Added Parts Lists for Figures 53.1, 53.2, 53.3, 53.4, 57.1, 57.2, 61.1, 61.2, 65.3, 93.1, 93.2 and 93.3. Revised Figures 28.1, 28.2, 49, 54, and 65.2. Revised Parts Lists for Figures 22, 28.1, 28.2, 46, 49, 54, 65.2, 71, and 92. Revision No. 1 is effective 10/1/75. Insert new and revised pages. Destroy superseded pages.		
2	Deleted Figures 11.1, 11.2, 34, 58, 63, 77.1 and 77.2. Deleted Parts Lists for Figures 11.1, 11.2, 34, 58, 63, 77.1 and 77.2. Added Figures 11, 34.1, 34.2, 58.1, 58.2, 58.3, 62.3, 62.4, 63.1, 63.2, 64.1, 64.2, 65.4 and 77. Added Parts Lists for Figures 11, 34.1, 34.2, 58.1, 58.2, 58.3, 62.3, 62.4, 63.1, 63.2, 64.1, 64.2, 65.4 and 77. Revised Figures 10.2, 12.3, 30, 33, 56.1, 56.2, 61.1, 62.1, 62.2, 65.1, 65.2, 66.1, 67.1, 74, 76, 78 and 92. Revised Parts Lists for Figures 10.2, 12.3, 30, 31, 33, 56.1, 56.2, 62.1, 62.2, 65.1, 65.2, 65.3, 66.1, 67.1, 74, 76, 78 and 92. Revision No. 2 is effective 5/15/76. Insert new and revised pages. Destroy superseded pages,		

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A system of indentation is used in the DESCRIPTION column to decrease the number of parts listed on an order whenever possible. Following is an example with an explanation.

EXAMPLE		
PART NUMBER	DESCRIPTION	UNITS PER ASSY.
191913-10	Fuel Selector Valve Assembly	1
191911-10-	Selector Valve Assembly	1
191886-10	Selector Valve Assembly	1
191905-0	Arm Assembly	1
191177	Pin	1
191923-0	Handle Assembly	1

If the 191913-10 Fuel Selector Valve Assembly (not indented) is ordered, then all items indented below it will be forwarded including the 191923-0 Handle Assembly with the appropriate charges.

If the 191911-10 Selector Valve Assembly (first indentation) is ordered, then the 191886-10 Selector Valve Assembly, the 191905-0 Arm Assembly and the 191177 Pin will be forwarded with the appropriate charges.

The 191886-10 Selector Valve Assembly, 191905-0 Arm Assembly and 191177 Pin may be ordered individually since they are the last indentation.

NOTE

DO NOT USE THIS CATALOG FOR ANY PURPOSE EXCEPT THE INTENDED USE AS A PARTS REPLACEMENT CATALOG.

Bellanca Aircraft Corporation reserves the right to change or cancel the parts, assemblies, parts lists and parts illustrations without notice.

BELLANCA



Illustrated Parts Catalog

INTRODUCTION

This Parts Catalog is designed to provide identification of replacement parts for the Models 17-30A, 17-31A and 17-31ATC. The catalog is limited to aircraft having serial numbers with the prefix of 75-. Exceptions to this serialization will be noted in the parts lists.

The illustrations and parts lists are arranged in a manner which provides easy identification of the parts. The parts list column headings are explained as follows.

1. **FIGURE AND INDEX NO.** lists the figure number of the illustration and itemizes each part with an index number.
2. **PART NUMBER** is the identifying number for a particular part in the illustration.
3. **DESCRIPTION** is the functional, name of the part.
4. **UNITS PER ASSY.** is the number of parts required per assembly. The total number of parts per airplane will depend on the number of assemblies required.
5. **CODE** is used to indicate the models affected and provide additional information by referring to notes given at the bottom of the page. The letters A, B and C are used throughout the entire manual to indicate the specific model that the itemized part is installed on. The model designations are as follows:

A - Model 17-30A

B Model 17-31A

C - Model 17-31ATC

When one or two letters are used, the part is installed only on the model or models indicated. However, when the part is used on all three models, the CODE column is blank. The letter D and successive letters of the alphabet are used to indicate special

Bellanca ***Viking 300***

ILLUSTRATED PARTS CATALOG

MODELS 17-30A

17-31A

17-31ATC

(EFFECTIVE SERIAL NUMBERS 75- AND UP)

SECOND PRINTING-REVISIONS 1 AND 2 INCORPORATED



AIRCRAFT CORPORATION

ALEXANDRIA, MINNESOTA 56308

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
99-				
-20	206035-1	Fuel Quantity Placard	2	
-21	196268	Fuselage Auxiliary Tank Fuel Grade Placard	1	
-22	206023-1	Fuselage Auxiliary Tank Fuel Capacity Placard	1	
-23	196927-1	Fuel Strainer Drain Placard	1	
-24	190239	Fuselage Auxiliary Fuel Tank Cap Placard	1	
-25	196945	Towing Limits Placard	1	
-26	194372	Main Gear Drag Strut	2	
-27	192674	Jack Point Placard	2	

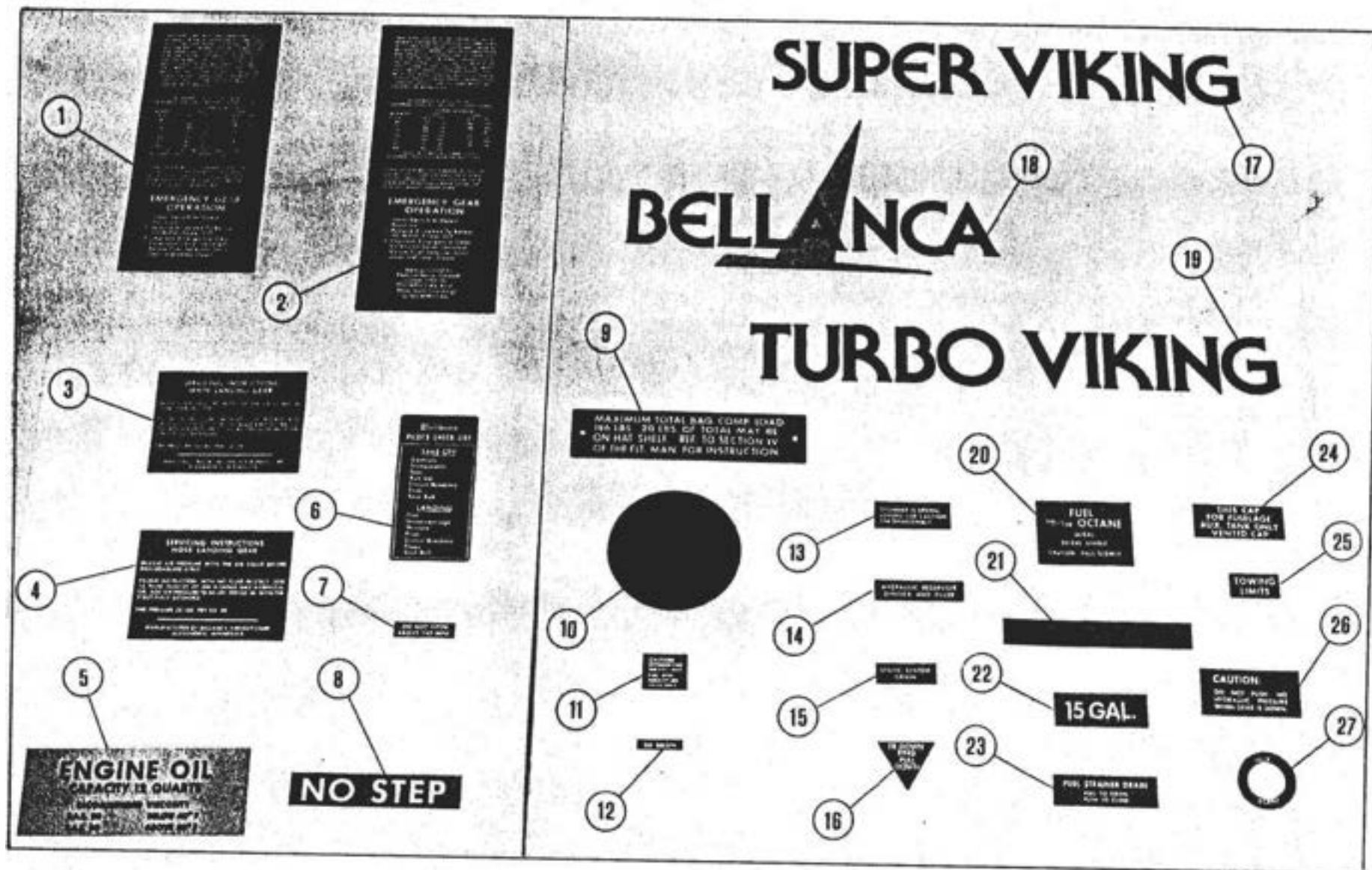


FIGURE 99. PLACARDS



99-		PLACARDS		
- 1	206055-0	Flight Limitations Placard Assembly	1	A,B
- 2	206057-0	Flight Limitations Placard Assembly	1	C
- 3	196880	Servicing Instructions - Main Landing Gear Placard	2	
- 4	196879	Servicing Instructions Nose Landing Gear Placard	1	
- 5	191348	Engine Oil Placard	1	
- 6	196652	Pilot's Check List	2	
- 7	196823	Pilot's Window Placard	1	
- 8	196267	No Step Placard	2	
- 9	196853	Baggage Compartment Load Placard	1	
-10	196661	Bellanca Aircraft Placard	2	
-11	195662-2	Accumulator Power Pak Caution Placard	1	
-12	195662-1	Accumulator Power Pak, See Below, Placard	1	
-13	195639-1	Nose Gear Actuating Cylinder Placard	1	
-14	206044-1	Hydraulic Reservoir Placard	1	
-15	196947	Static Drain System Placard	1	
-16	192673-1	Tie Down Ring	2	
-17	206250-2	Super Viking Placard (Black)	2	A,B
	206250-1	Super Viking Placard (White)	2	A,B,D
-18	206251-3	Bellanca Placard Left Hand (Black)	1	
	206251-4	Bellanca Placard - Right Hand (Black)	1	
	206251-1	Bellanca Placard - Left Hand (White)	1	D
	206251-2	Bellanca Placard - Right Hand (White)	1	D
-19	206249-2	Turbo Viking Placard (Black)	2	C,D
	206249-1	Turbo Viking Placard (White)	2	C,D

CONTINUED ON NEXT PAGE

D - This placard is used as an alternate to the placard with black lettering when the basic color scheme requires it.

D - Furnished with SAS 4201-1.

FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
96-		INSTALLATION-RADIO BOARD, BATTERY BOX ANDBATTERY CABLES		
	196527	Installation - Battery & Battery Cables	-	
- 1	196527-10	Cable Assembly, Battery Ground	1	
- 2	196527-20	Cable Assembly	1	
- 3	196527-30	Cable Assembly	1	
- 4	AN5-12A	Bolt, Ground Cable Attach	1	
- 5	AN960-516	Washer	2	
- 6	AN365-524	Nut	1	
- 7	SAS-4201-1	Battery Relay	1	
- 8	AN4-4A	Bolt, Battery Relay Attach	2	
- 9	AN960-416	Washer	2	
-10	AN365-428	Nut	1	
-11	SAS-4201-1	Starter Relay	1	
-12	AN4-4A	Bolt, Starter Relay Attach	2	
-13	AN960-416	Washer	2	
-14	191480	Strap	1	
-15	196527-5	Bolt, Brass	1	
-16	AN936-A-516	Washer	1	
-17	AN960-516L	Washer	2	
-18	5/16 B.J.	Nut, Brass Jam	3	
-19	AN935-516	Washer	1	
-20	196527-4	Spacer	2	
	30F356	Spacer (Alternate for 196527-4)	2	
-21	#427	Nipple	6	
	066424	Nipple (Alternate for #427)	6	
	MS25171-45	Nipple (Alternate for #427)	6	
	190205 Sht. 4	Installation - Radio Board & Battery Box..	-	
-22	190330-0	Radio	1	
CONTINUED ON NEXT PAGE				

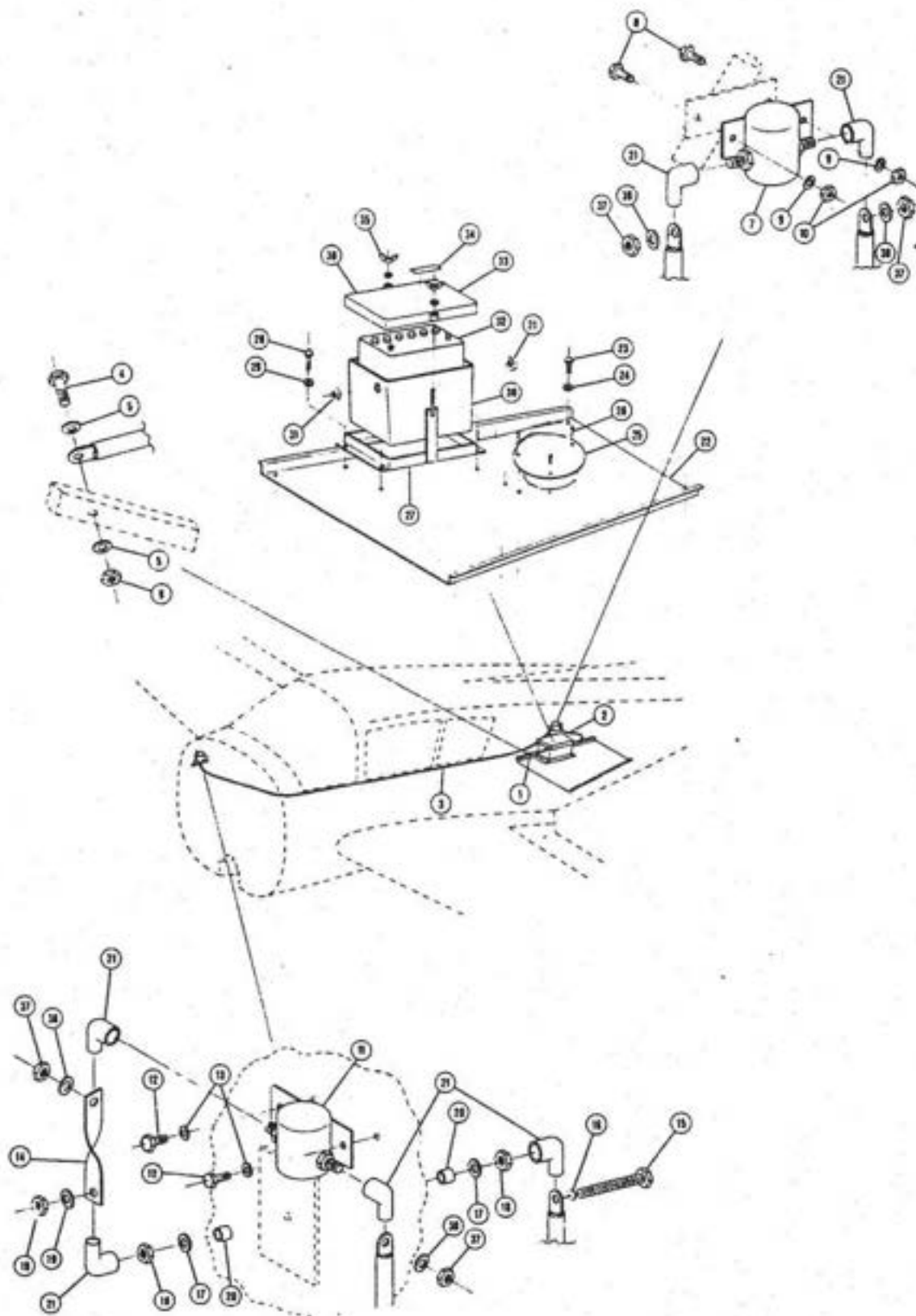


FIGURE 9 6. INSTALLATION - RADIO BOARD, BATTERY BOX AND BATTERY CABLES

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTIoN	UNITS PER ASST.	CODE
93.3-				
-13	AN917-2D	Tee	1	
-14	AN932-2	Plug	1	
-15	AN816-6D	Nipple	1	
-16	AN520-10-24	SCreW	2	
-17	AN365-1032	NUt	4	
-18	AN507-10-8	Screw	1	
-19	AN520-10-8	Screw	1	
-20	196616-10	Strap	1	
-21	196616-30	Strap	1	
-22	190336	Auxiliary Fuel Tank	1	
-23	190238	Filler cap	1	
-24	190230-10	Filler Neck	1	
-25	192524	Gasket	2	
-26	190240	Scupper	1	
-27	AN515-8-10	Screw	8	
-28	AN935-8	Washer	8	
	191886-10	Valve Assembly, Fuel Selector (See Figure 92)		
-29	AN833-4D	Elbow	1	E
-30	AN924-4D	Nut	1	E
-31	AN6227-7	O-Ring	1	E
-32	AN837-6D	Elbow	1	E
-33	AN924-6D	Nut	1	E
-34	AN6227-9	O Ring	1	E
E - This part is included with the purchase of 191913-10 Fuel Selector Assembly (Index Number 1).				



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY'	11 CODE
93.3-		FUEL SYSTEM - AUXILIARY SYSTEM		
	191888	Fuel System Installation		
	191888-10	Fuel System Assembly	1	A
	191888-30	Fuel System Assembly	1	B,C
- 1	191913-10	Fuel Selector (See Figure 92)	-	
- 2	198008-127	Metal Line	1	D
	AN818-6D	Nut	2	
	AN819-6D	Sleeve	2	
- 3	AN815-6D	Union	1	
- 4	198008-158	Metal Line	1	D
	AN818-6D	Nut	2	
	AN819-6D	Sleeve	2	
- 5	198008-125	Metal Line	1	D
	AN818-4D	Nut	2	
	AN819-4D	Sleeve	2	
- 6	AN815-4D	Union	1	
- 7	198008-25	Metal Line	1	D
	AN818-4D	Nut	2	
	AN819-4D	Sleeve	2	
	190228	Auxiliary Fuel Tank Installation—Optional		
- 8	AN822-4D	Elbow	1	
	196409-10	Strainer Assembly	1	
- 9	196411	Screen	1	
-10	196412-1	Bushing	1	
-11	196410-1	Fitting	1	
-12	190228-1	Reducer Bushing	1	
		CONTINUED ON NEXT PAGE		
		D - This part sold as a unit with the nuts and sleeves assembled.		

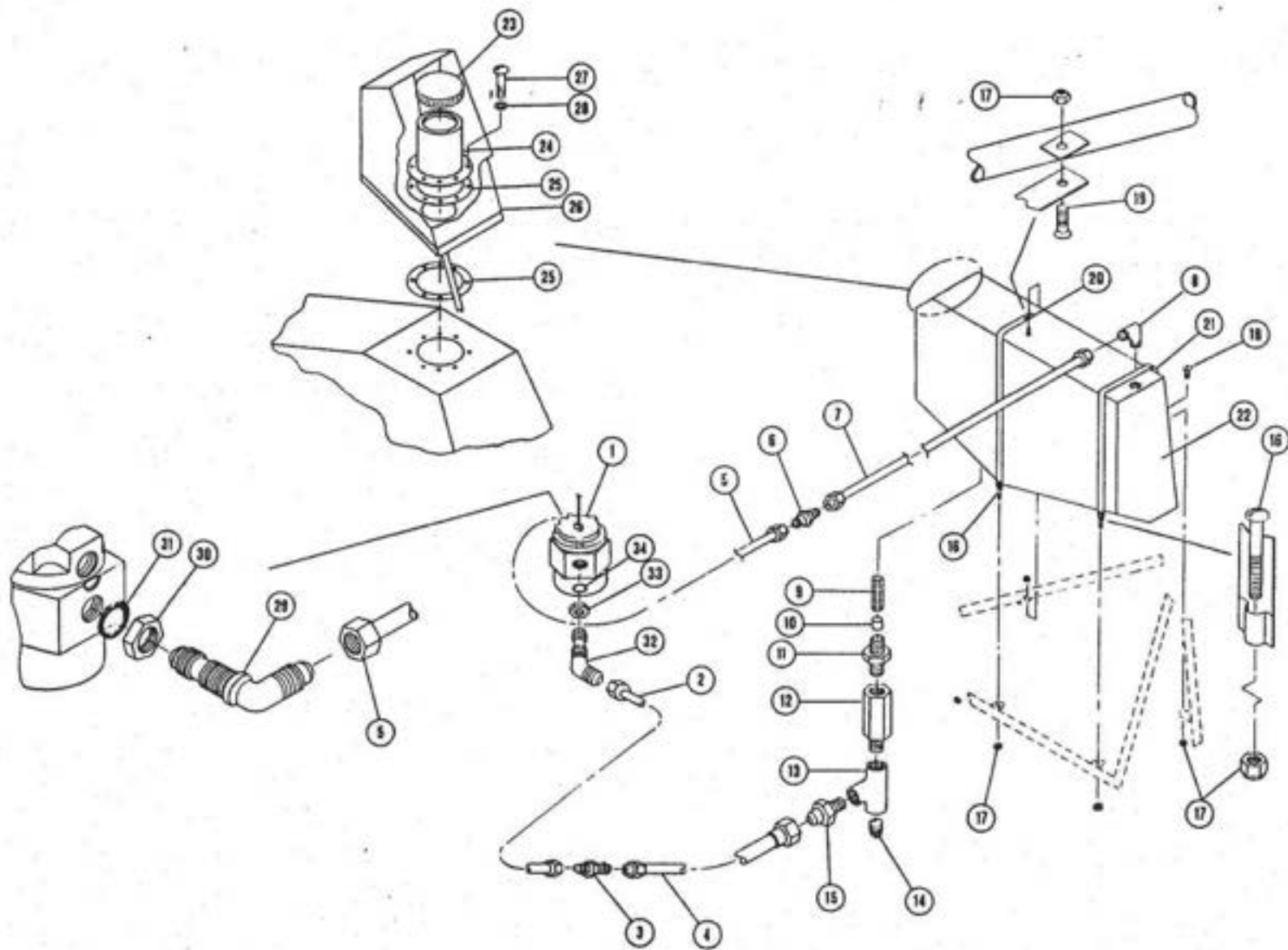


FIGURE 93.3 FUEL SYSTEM - AUXILIARY SYSTEM

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
93.2-				
-36	MS21919-DF14	Clamp	4	
-37	CCA1550	Valve	2	
-38	AN520-10-26	Screw	2	
-39	198004-85	Bushing	4	
-40	AN960-10L	Washer	2	
-41	MS20365-1032	Nut	2	
	191886	Valve Assembly, Fuel Selector	-	F
-42	AN837-4D	Elbow	-	A,F
	AN834-4D	Tee	-	B,C,F
-43	AN833-6D	Elbow	-	F
-44	AN822-6D	Elbow	-	F
-45	AN814-6DL	Plug	-	F,H
	AN814-4DL	Plug	-	F,G,H
-46	AN837-4D	Elbow	-	F
-47	191886-0	Fuel Selector	-	F
-48	U191921	Bracket	1	
F - See Figure 92. G - AN814-4DL plug is not shown in the illustration. It is located in the lower hole opposite of Item 45 (AN814-6DL plug). H - This part used when the fuselage auxiliary fuel tank is not installed.				
			10/1/7	



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
93.2-				
-21	198008-1M	Metal Line	1	D
	AN818-4D	Nut	2	
	AN819-4D	Sleeve	2	
-22	198008-123	Metal Line	1	D
	AN818-40	N u t	2	
	AN819-40	Sleeve	2	
-23	AN815-4D	Union	1	
-24	198008-137	Metal Line	1	D
	AN818-40	Nut	2	
	AN819-40	Sleeve	2	
-25	198008-122	Metal Line	1	A
	AN818-40	N u t	2	A
	AN819-40	Sleeve	2	A
-26	19121-19	Reducer	2	A
-27	19121-30	Check Valve	1	A
-28	198008-31	Metal Line	1	A
	AN818-4D	Nut	2	A
	AN819-40	Sleeve	2	A
-29	198008-178	Metal Line	1	B,C,D
	AN818-40	N u t	2	B,C,D
	AN819-4D	Sleeve	2	B,C,D
-30	MS21919-DF4	Clamp	4	
-31	AN520-10-12	S c r e w	4	
-32	AN960-10L	Washer	8	
-33	MS20365-1032	Nut	4	
-34	19121-21	Tee	2	
-35	AN816-6-60	Nipple	2	
CONTINUED ON NEXT PAGE				
D - This part sold as a unit with the nuts and sleeves assembled.				



FIGURE AND INDEX O.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
93.2-					
-11		Clamp	1		
-12	286-9	Fuel Pump	1	A	
	2B6-47	Fuel Pump	1	B,C,E	
-13	MS20822-4D	Elbow	1	B,C	
-14	198008-179	Metal Line	1	B,C,D	
	AN818-4D	Nut	2	B,C	
	AN819-4D	Sleeve	2	B,C	
-15	198008-135	Metal Line	1	A,D	
	198008-177	Metal Line	1	B,C,D	
	AN818-8D	Nut	2		
	AN819-8D	Sleeve	2		
-16	198008-160	Metal Line	1	D	
	AN818-60	Nut	2		
	AN819-60	Sleeve	2		
-17	198008-101	Metal Line	1	D	
	AN818-8D	Nut	2		
	AN819-8D	Sleeve	2		
-18	198008-102	Metal Line	1	D	
	AN818-8D	Nut	2		
	AN819-80	Sleeve	2		
-19	198008-124	Metal Line	1	D	
	AN818-40	Nut	2		
	AN819-4D	Sleeve	2		
-20	AN815-40	Union	1		
CONTINUED ON NEXT PAGE					
D - This part sold as a unit with the nuts and sleeves assembled.					
E - Fitting and check valve are supplied with the pump and may not be purchased separately.					

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
93.2-		FUEL SYSTEM - FUSELAGE		
	191888	Fuel System Installation		
	191888-0	Fuel System Assembly	1	A
	191888-20	Fuel System Assembly	1	B,C
- 1	198008-129	Metal Line	1	
	AN818-6D	Nut	2	
	AN819-6D	Sleeve	2	
- 2	AN815-6D	Union	1	
- 3	198008-121	Metal Line	1	D
	AN818-6D	Nut	2	
	AN819-6D	Sleeve	2	
- 4	198004-104	Metal Line	1	D
	AN818-8D	Nut	2	
	AN819-8D	Sleeve	2	
- 5	198008-106	Metal Line	1	D
	AN818-8D	Nut	2	
	AN819-8D	Sleeve	2	
- 6	198008-126	Metal Line	1	D
	AN818-6D	Nut	2	
	AN819-6D	Sleeve	2	
- 7	MS20822-6-6D	Elbow	1	
- 8	191922	Fuel Strainer	1	
- 9	MS20822-8D	Elbow	1	
-10	198008-80	Metal Line	1	D
	AN818-8D	Nut	2	
	AN819-8D	Sleeve	2	
	191739-0	Fuel Pump Assembly	1	A
	191739-10	Fuel Pump Assembly	1	B,C,E
CONTINUED ON NEXT PAGE				
E-Fitting and check valve are supplied with the pump and may not be purchased separately.				

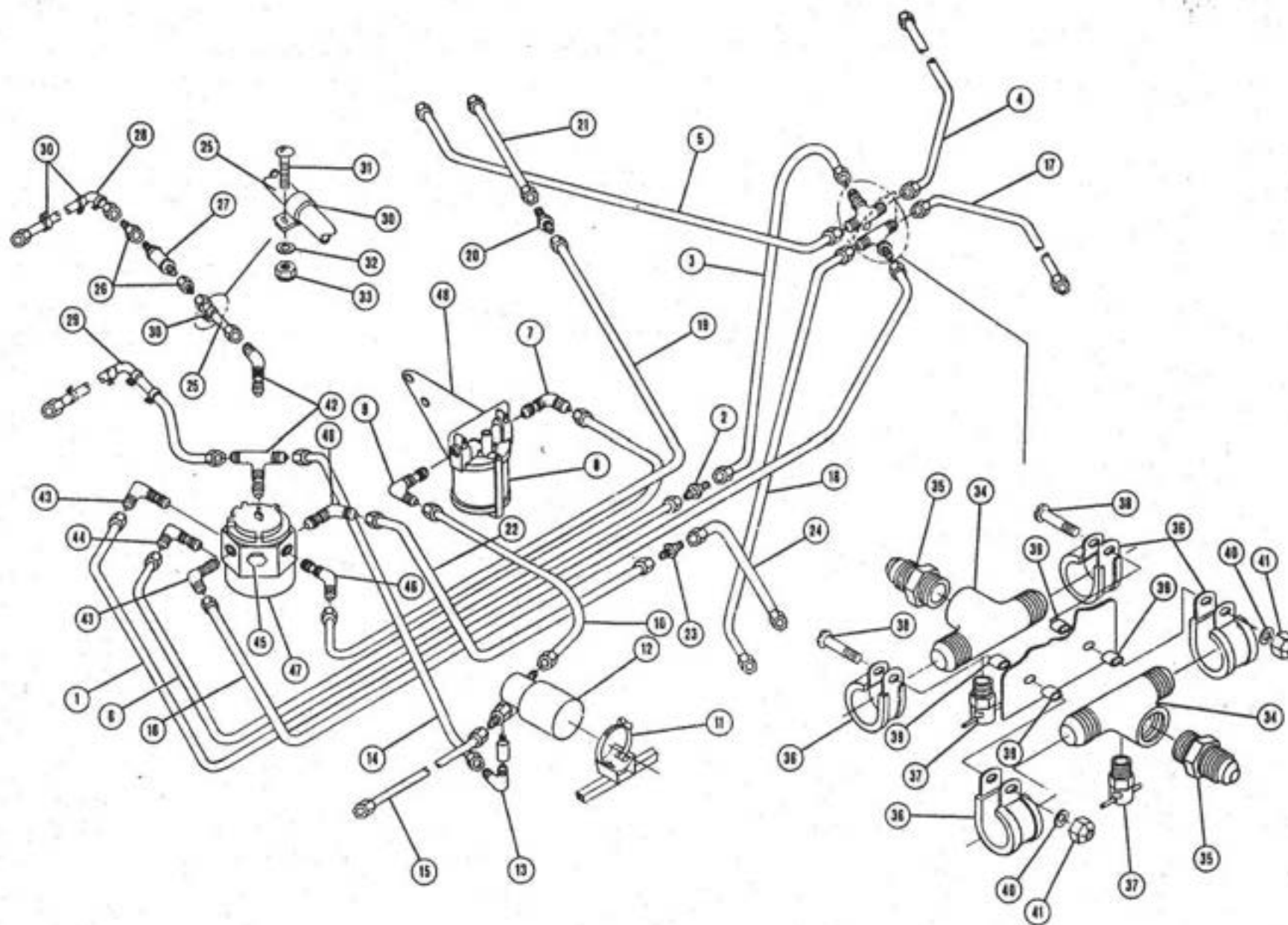


FIGURE 93.2 FUEL SYSTEM - FUSELAGE



93.1-			
-38	19135-1	Sleeve	1
-39	19135-2	Adaptor	1
-40	AN915-3D	Fitting	1
-41	M520823- 80	Elbow	1
-42	192688-0	Outboard Wing Tank	1L
	192688-10	Outboard Wing	1R
-43	192723-0	Middle Wing	1L
	192723-10	Middle Wing	1R
-44	192663-0	Inboard Wing Tank	1L
	192663-10	Inboard Wing Tank	1R



FIGURE AND INDEX No.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
93.1-				
-13	MS208Z2-8D	Elbow	1	
	191347	Strainer Assembly	1	
-14	191346	Fitting	1	
-15	19135-2	Adaptor	1	
-16	19135-1	Sleeve	1	
-17	19135-3	Screen	1	
-18	1KI-6-10	El bow	1	
-19	QS200-M12S	C l a m p	2	
-20	198003-165	Hose	1	
-21	MS21919-DF14	Clamp	1	
-22	No. 6 x 3/8	Screw	1	
-23	1K10-6-10	Adaptor	1	
-24	191346	Fitting	1	
-25	QS200-M24S	Clamp	4	
-26	198003-164	Hose	2	
-27	198003-166	Hose	2	
-28	AN932-2	Plug	3	
-29	QS200-M10S	Clamp	2	
-30	198003-142	Hose	1	
-31	192699-1	Filler Tube	1	
-32	192699-2	Filler	1	
-33	198003-162	Hose	3	
-34	QS200-M40S	Clamp	6	
-35	MS21919-F32	Clamp	1	
-36	No. 6 x 3/8	S c r e w	1	
	19135-10	Strainer Assembly	1	
-37	19135-3	Screen	1	
CONTINUED ON NEXT PAGE				



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
93.1-		FUEL SYSTEM - WING TANKS		
	191888	Fuel System Installation		
	191888-0	Fuel System Assembly	1	A,D
	191888-10	Fuel System Assembly	1	B,C,D
- 1	MS20822-6D	Elbow	1	
- 2	198008-115	Metal Line	1	E
	AN818-6D	Nut	2	
	AN819-6D	Sleeve	2	
- 3	AN824-6D	Tee	1	
- 4	19121-19,	Reducer	1	
- 5	MS20822-6D	Elbow	1	
- 6	198008-117	Metal Line	1	E
	AN818-6D	Nut	2	
	AN819-6D	Sleeve	2	
- 7	198008-119	Metal Line	1	E
	AN818-4D	Nut	2	
	AN819-4D	Sleeve	2	
- 8	AN742-DF7	Clamp	1	
- 9	No. 6 x 1/2	Screw	1	
-10	AN821-4D	Elbow	1	
-11	AN821-8D	Elbow	1	
-12	198008-33	Metal Line	1	E
	AN818-8D	Nut	2	
	AN819-8D	Sleeve	2	
CONTINUED ON NEXT PAGE				
D - Only the portion of the fuel system in the left wing is shown. The right wing is typical.				
E - This part sold as a unit with the nuts and sleeves assembled.				

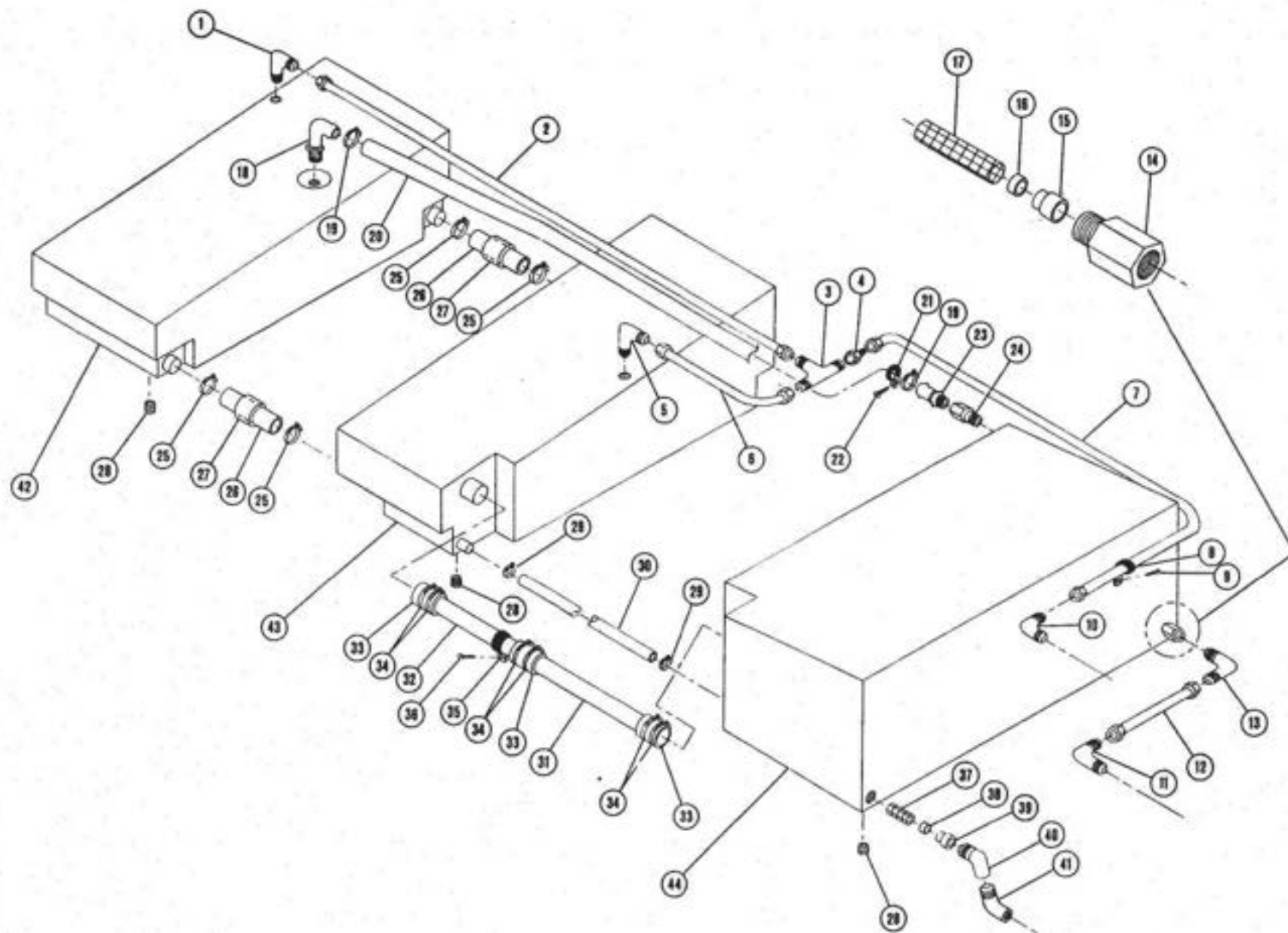


FIGURE 93, 1' FUEL SYSTEM - WING TANKS



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
92.-				
-18	AN4-4A	Bolt	3	
-19	AN936-84I6	Washer	3	
-20	AN520-10RIO	Screw	4	
-21	AN960-10	Washer	7	
-22	MS20365-1032	Nut	4	
-23	1)191919	Bracket	1	
-24	AN4-4A	Bolt	2	
-25	AN936A-416	Washer	2	
-26	AN515-4-24	S c r e w	2	
-27	AN960-4L	Washer	4	
-28	MS20365-440	Nut	2	
-29	191920-2	Clamp	1	
-30	191920-1	SPaCer	A/R	
-31	AN515-6-8	S c r e w	2	
-32	AN960-6L	Washer	2	
-33	MS20365-632	Nut	2	
-34	191923-0	Handle Assembly	1	
-35	No. 6 x 1/2	Screw	2	
-36	V3L-103-D8	Switch	3	E
	V3L-103-D8	Switch	2	D
D-To be used when fuselage auxiliary fuel tank is not installed. E-To be used when fuselage auxiliary fuel tank is installed.				



FIGURE AND INDEX No.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
92.-	191913-30	Fuel Selector Valve	1	B,C,G
	191911-0	Assembly, Selector Valve	1	A,D
	191911-10	Assembly, Selector	1	A,E
	191911-20	Assembly, Selector Valve	1	B,C,F
	191911-30	Assembly, Selector Valve	1	B,C,G
-11	191886-0	Valve Assembly (Fittings Omitted For Clarity)	1	A,D
	191886-10	Valve Assembly (Fittings Omitted For Clarity)	1	A,E
	191886-20	Valve Assembly (Fittings Omitted For Clarity)	1	B,C,F
	191886-30	Valve Assembly (Fittings Omitted For Clarity)	1	B,C,G
-12	191905-0	Arm Assembly	1	
-13	191177	Pin	1	
-14	AN960-3	Washer	1	
-15	MS24665-9	Cotter Pin	1	
-16	191916-1	Plate	1	
-17	U191918-1	Bracket	1	D
Continued On Next Page				
D-To be used when fuselage auxiliary fuel tank is not installed. E-To be used when fuselage auxiliary fuel tank is installed. F-To be used when fuselage auxiliary fuel tank is not installed. This is a standard system used on aircraft with serial numbers 76-32-162 and up and 76-31121 and up. It is an optional system for aircraft with serial numbers through 75-32-161 and 75-31120. G-To be used when fuselage auxiliary tank is installed. This is a standard system used on aircraft with serial numbers 76-32-162 and up and 76-31121 and up. It is an optional system for aircraft with serial numbers through 75-32-161 and 75-31120.				



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
92.-		FUEL SELECTOR		
	191924-10	Fuel Selector Console Assembly	1	D
	191924-0	Fuel Selector Console Assembly	1	E
-	191971-1	Console	1	
	191926-0	Assembly, Console	1	E
	191926-10	Assembly, Console	1	D
- 2	191901-1	Console	1	
- 3	206036-1	Silkscreen	1	E
	206036-2	Silkscreen	1	D
- 4	191923-10	Ring - Index	1	E
	191923-20	Ring - Index	1	D
- 5	191923-4	Ring - Backer	1	
- 6	191926-1	Patch	1	
- 7	No. 6 x 3/4	Screw	12	
- 8	No. 6 x 1/2	Screw	3	
- 9	AN6011-6	Washer	15	
-10	A1784-6Z-3	Tinnerman Nut	3	
	191913-0	Fuel Selector Valve Assembly	1	A,D
	191913-10	Fuel Selector Valve Assembly	1	A,E
	191913-20	Fuel Selector Valve Assembly	1	B,C,F
		Continued On Next Page		
		D-To be used when fuselage auxiliary fuel tank is not installed.		
		E-To be used when fuselage auxiliary fuel tank is installed.		
		F-To be used when fuselage auxiliary fuel tank is not installed. This is a standard system used on aircraft with serial numbers 76-32-162 and up and 76-31121 and up. It is an optional system for aircraft with serial numbers through 75-32-161 and 75-31120.		

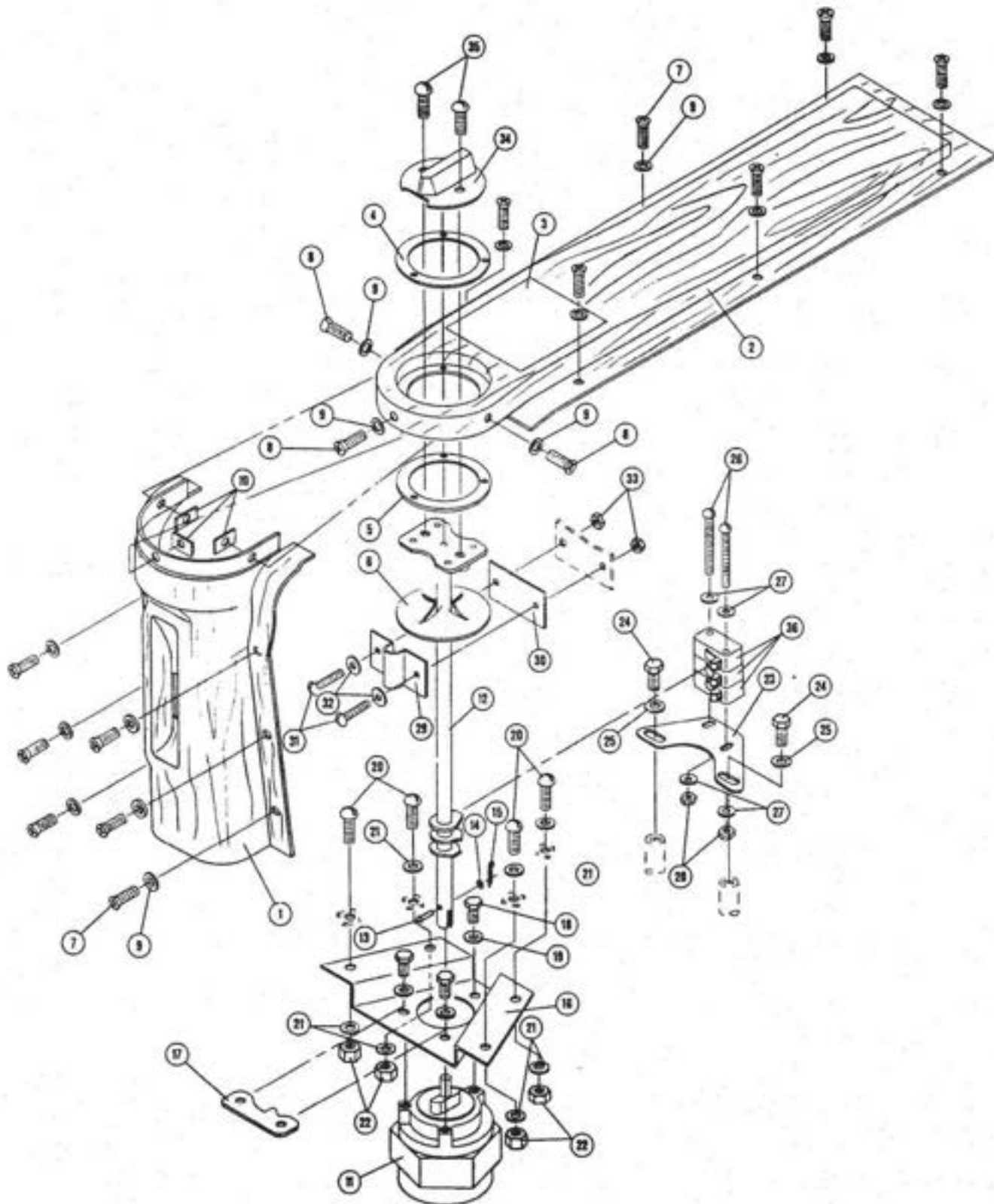


FIGURE 92. FUEL SELECTOR

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
90-				
-19	AN931-4-12	Grommet	3	B,C
-20	190280-1	Cover	6	B,C
-21	AN515-6-10	Screw	12	B,C
-22	191792	Bracket, Throttle Control	1	B
	191946-1	Bracket, Throttle Control	1	C
-23	AN345-10	Nut	1	B,C
-24	191667	Rod End, Throttle Control	1	B,C
-25	AN3-10	Bolt, Throttle Control Attach	1	B,C
-26	AN970-3	Washer	1	B,C
-27	AN960-10	Washer	1	B,C
-28	AN960-10L	Washer	2	B,C
-29	191742	Spacer	1	B,C
-30	AN310-3	Nut	1	B,C
-31	AN380-2-3	Cotter pin	1	B,C
-32	AN345-10	Nut	1	B,C
-33	191871-2	Bracket	1	B,C
-34	AN3-4	Bolt	2	B,C
-35	AN960-10L	Washer	2	B,C
-36	AN365-1032	Nut	2	B,C
-37	AN3-10	Bolt, Mixture Control Attach	1	B,C
-38	AN970-3	Washer	1	B,C
-39	AN960-10	Washer	1	B,C
-40	AN960-10L	Washer	2	B,C
-41	AN310-3	Nut	1	B,C
-42	AN380-2-3	Cotter Pin	1	B,C
-43	191667	Rod End, Mixture Control	1	B,C

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	FIGURE AND INDEX N O.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
	90-		POWER PLANT CONTROLS-MODELS I7-31A, 17-31ATC		
		191558	Installation - Power Plant Controls	-	C
		191751	Installation - Power Plant Controls	-	B
	- 1	191783-5	Throttle Control	1	B,C
		191783-11	Throttle Control (Alternate for 191783-15)	1	B,C
	- 2	191783-1	Propeller Control	1	B,C
		191783-6	Propeller Control (Alternate for 191783-1).	1	B,C
	- 3	191783-12	Mixture Control	1	B,C
		191783-13	Mixture Control (Alternate for 191783-12).	1	B,C
		191783-15	Mixture Control (Alternate for 191783-12).	1	8,C
	- 4	191994-2	Spacer	1	8,C,D
	- 5	191794	Bracket, Propeller Control	1	8,C
	- 6	AN3-4	Bolt	2	8,C
	- 7	AN960-10	Washer	2	8,C
	- 8	AN365-1032	Nut	2	B,C
	- 9	U191979-1	Plate	1	B,C
	-10	191667	Rod End, Propeller Control	1	8,C
	-11	AN345-10	Nut	1	8,C
	-12	AN3-11	Bolt	1	B,C
	-13	AN960-10	Washer	2	B,C
	-14	AN970-3	Washer	1	8,C
	-15	AN960-10L	Washer	1	8,C
	-16	AN310-3	Nut	1	8,C
	-17	AN380-2-3	Cotter	1	B,C
	-18	190290	Cover, Firewall Grommet	3	B,C
			D - To be used with 191783-12 or 191783-13 controls only.		

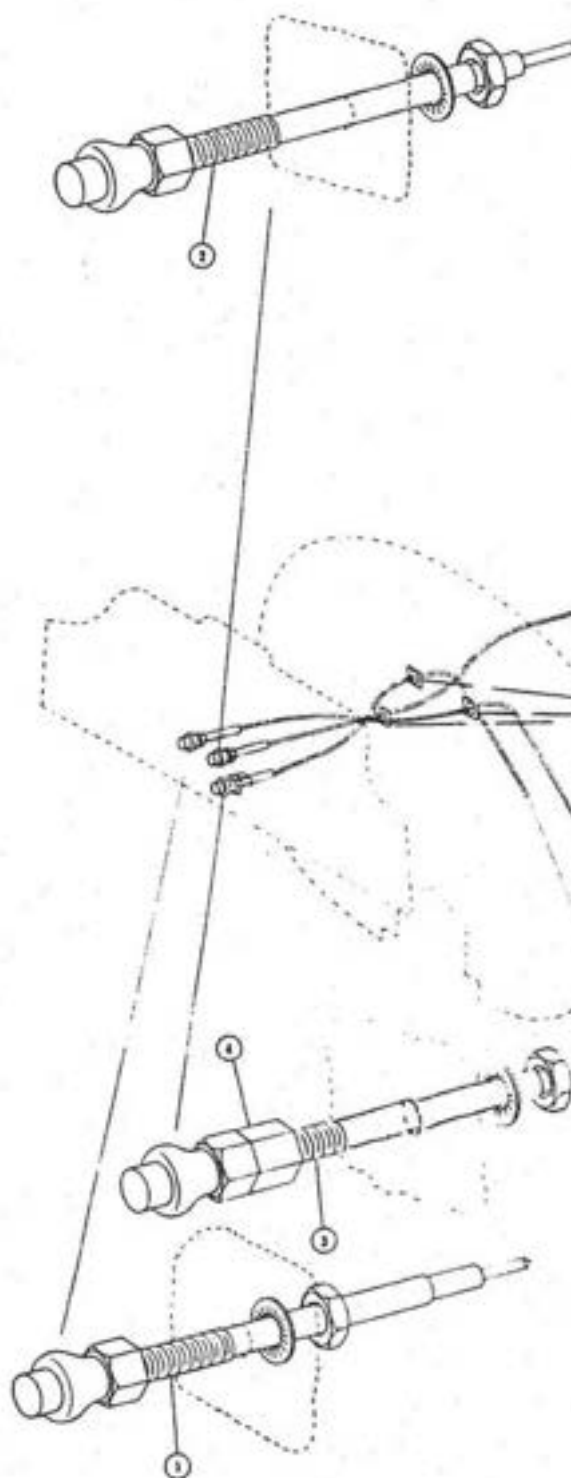


FIGURE 90. POWER PLANT CONTROLS - MODEL 17-31 A, 17-31ATC

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
89-				
-19	190290	Cover, Firewall Grommet	3	A
-20	AN931-4-12	Grommet	3	A
-21	190280-1	Cover Plate	6	A
-22	AN515-6-10	Screw	12	A
-23	191667	Rod End	2	A
-24	AN345-10	Nut	2	A
-25	AN3-7	Bolt	2	A
-26	AN960-10L	Washer	4	A
-27	AN960-10	Washer	2	A
-28	AN970-3	Washer	2	A
-29	AN310-3	Nut	2	A
-30	AN380-2-3	Cotter Pin	2	A
-31	191701-1	Bracket (Used with 191783-5 cable only).	1	A
	191701-2	Bracket (Used with 191783-11 cable only)	1	A
-32	AN500-A10-7	Bolt	2	A
	MS20074-03-02	Bolt (Alternate for AN500-A10-7)	2	A
-33	AN960-10L	Washer	2	A
-34	191871	Bracket	1	A
-35	AN3-4A	Bolt	2	A
-36	AN960-10L	Washer	2	A
-37	AN364-1032	Nut	2	A
-38	U191975-I	Bracket	1	A
-39	AN3-4A	Bolt	2	A
-40	AN960-10L	Washer	2	A
-4T	AN364-1032	N u t	2	A
-42	MS21919-DF8	Clamp	1	A
-43	AN515-8-10	Bolt	1	A
-44	AN960-8L	Washer	2	A
-45	MS20365-832	N u t	1	A

89-		POWER PLANT CONTROLS-MODEL 17-30A		
	191720	Installation - Power Plant Controls	-	
- 1	191783-5	Throttle Control	1	A
	191783-11	Throttle Control (Alternate for 191783-5)	1	A
- 2	191783-1	Propeller Control	1	A
	191783-6	Propeller Control (Alternate for 191783-1)	1	A
- 3	191783-3	Mixture Control	1	A
	191783-8	Mixture Control (Alternate for 191783-3)	1	A
	191783-14	Mixture Control (Alternate for 191783-3)	1	A
- 4	191994-1	Spacer	1	A,D
- 5	MS21919-DF18	Clamp	1	A
- 6	MS21919-DF4	Clamp	1	A
- 7	AN520-10-12	Screw	1	A
- 8	AN365-1032	Nut	1	A
- 9	191807	Bracket, Propeller Control	1	A
-10	191871	Bracket	1	A
-11	AN3-4A	Bolt	2	A
-12	AN960-10L	Washer	2	A
-13	AN365-1032	Nut	2	A
-14	AN665-21	Clevis Fork, Propeller Control	1	A
-15	AN345-10	Nut	1	A
-16	AN393-11	Clevis Pin	1	A
-17	AN960-10L	Washer	1	A
-18	AN380-2-2	Cotter Pin	1	A
CONTINUED ON NEXT PAGE				
D - To be used only with 191783-3 or 191783-8 controls.				

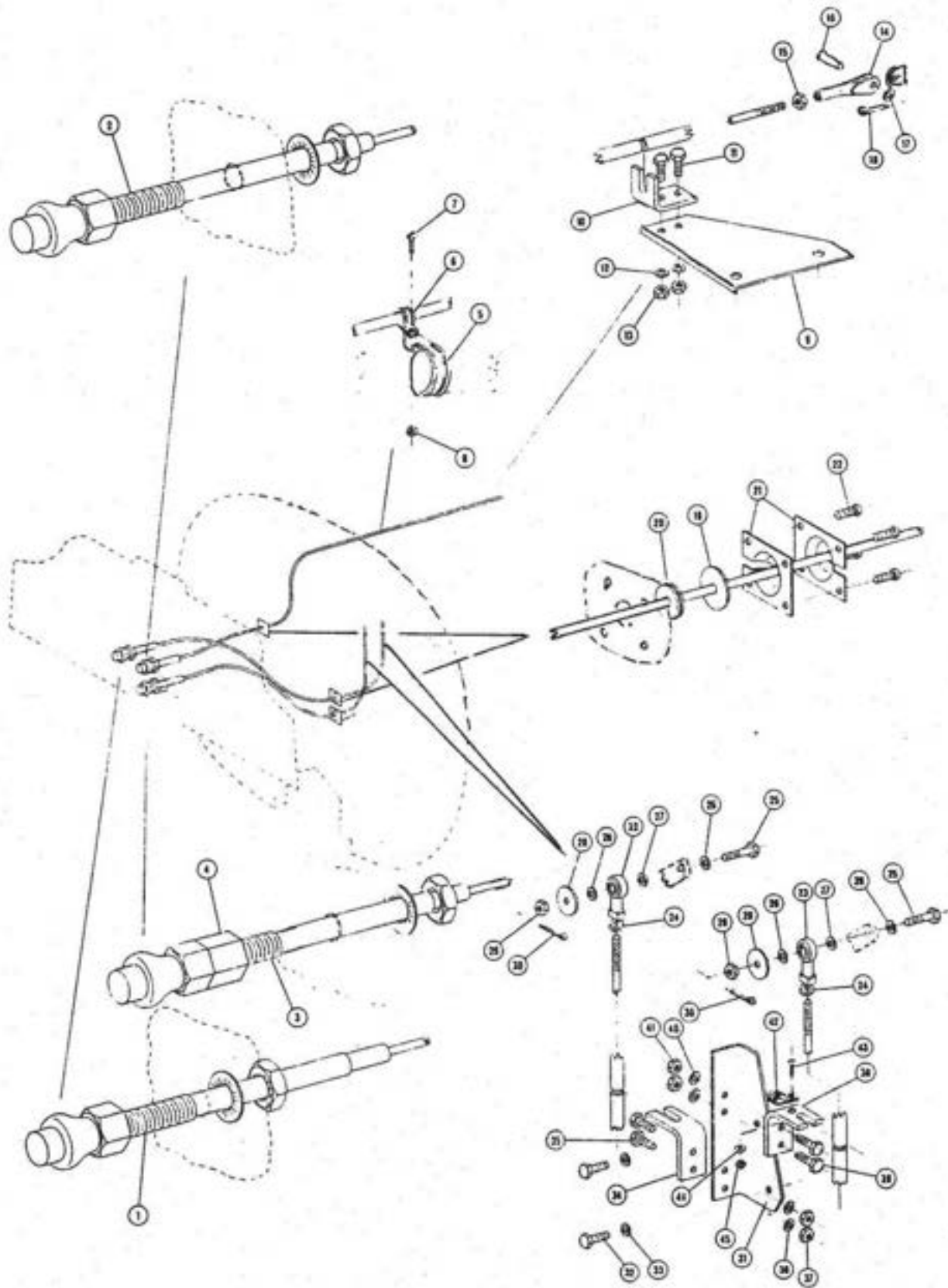


FIGURE 89, POWER PLANT CONTROLS - MODEL 17-30A

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85-

-23	191842-10	Shroud	1	C
-24	191458	Clamp	3	C
-25	AN520-10-20	Screw	3	C
-26	AN960-10L	Washer	6	C
-27	AN363-1032	Nut	3	C
-28	191986-20	Waste Gate Assembly	1	C
-29	191424	Clamp	1	C
-30	191654-10	Tail Pipe - R/H	1	C
-31	191652	Balance Tube, R/H	1	C
-32	191653	Balance Tube, L/H	1	C



85-		EXHAUST SYSTEM ASSEMBLY-MODEL 17-31ATC		
	191970	Exhaust Stack & Shroud Assembly, L/H	1	C
- 1	191967-0	Exhaust Stack	1	C
- 2	77611	Gasket	3	C,E
- 3	AN3C-12A	Bolt	1	C
4	AN960C-10	Washer	2	C
- 5	AN363C-1032	Nut	1	C
6	191968-0	Shroud	1	C
	191968-10	Shroud (Alternate for 191968-0)	1	C
- 7	191969-1	Clamp	3	C
- 8	AN520-10-20	Screw	3	C
- 9	AN960-10L	Washer	6	C
-10	AN363-1032	Nut	3	C
-11	191986-30	Waste Gate Assembly	1	C
-12	191424	Clamp	1	C
-13	RJ0115	Gasket	1	C,D
-14	40030-369-M-G	Clamp	1	C,D
-15	191658-10	Tail Pipe - L/H	1	C
-16	40030-369-M-G	Clamp	1	C,D
-17	RJ0114	Gasket	1	C,D
	191683	Muffler Assembly, Turbo Charger, R/H	1	C
-18	191672-0	Muffler - R/H	1	C
-19	77611	Gasket	3	C,E
-20	AN3C-12A	Bolt	1	C
-21	AN960C-10	Washer	2	C
-22	AN366C-1032	Nut	1	C
CONTINUED ON NEXT PAGE				
D - Left hand shown, right hand opposite.				



FIGURE 85. EXHAUST SYSTEM ASSEMBLY - MODEL 17-31A TC

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
8-					
-25	AN960-10L	Washer	6		
-26	AN363-1032	Nut	3	B	
-27	191931-0	Tail Pipe Assembly - R/H,, 1	1	B	
-28	099004-254	Clamp	1	B	
-29	191928-20	Mount	1	B	
-30	191928-3	Bracket	2	B	
-31	AN4-21A	Bolt	1	B	
-32	AN960-416	Washer	2	B	
-33	MS21045-L4	Nut	1	B	
-34	198004-145	Spacer	1	B	
-35	AN3-21	Bolt	1	B	
-36	AN960-10	Washer	2	B	
-37	AN310-3	Nut	1	B	
-38	AN380-2-3	Cotter Pin	1	B	

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
84-		EXHAUST SYSTEM ASSEMBLY-MODEL 17-3.1A		
	191960-0	Muffler Assembly -L/H	1	B
- 1	191744-10	Muffler	1	B
- 2	77611	Gasket	3	B,
- 3	191959-0	Shroud	1	B
	191458	Clamp	2	B
	AN520-10-20	Screw	2	B
6	AN960-10L	Washer	4	B
- 7	AN363-1032	Nut	2	B
8	191930-0	Tail Pipe Assembly - L/H	1	B
- 9	099004-254	Clamp	1	B
-10	191928-30	Mount	1	B
-11	191937-3	Bracket	2	B
-12	AN4-21A	Bolt	1	B
-13	AN960-416	Washer	2	B
-14	MS21045-L4	Nut	1	B
-15	198004-145	Spacer	1	B
-16	AN3-21	Bolt	1	B
-17	AN960-10	Washer	2	B
-18	AN310-3	Nut	1	B
-19	AN380-2-3	Cotter Pin	1	B
	191767-10	Muffler Assembly - R/H	1	B
-20	191768-10	Muffler	1	B
-21	77611	Gasket	3	B,D
-22	191842-0	Shroud	1	B
-23	191458	Clamp	3	B
-24	AN520-10-20	Screw	3	B
		CONTINUED ON NEXT PAGE		
		D - Order from Avco Lycoming.		

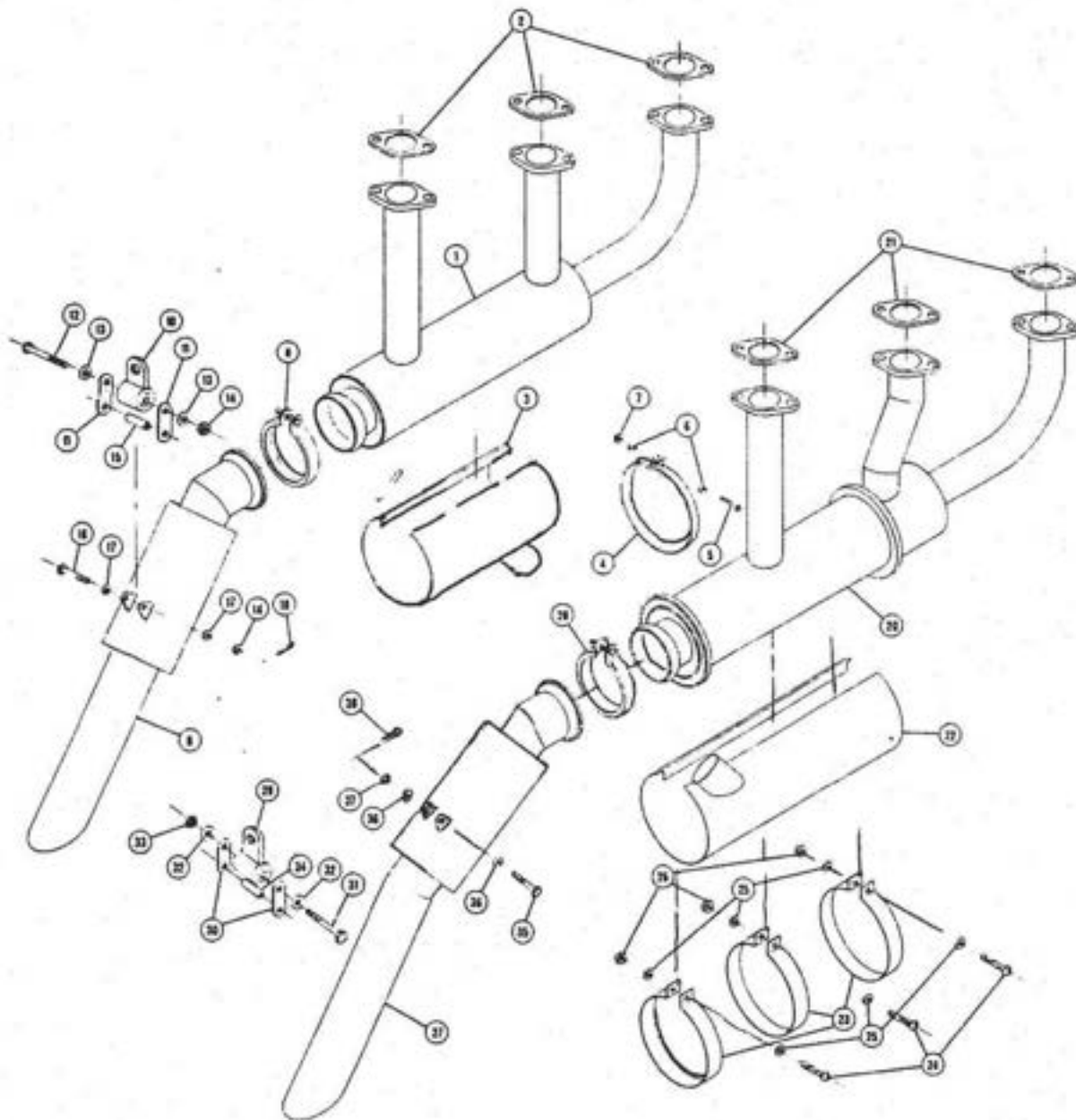


FIGURE 84. EXHAUST SYSTEM ASSEMBLY - MODEL 17-1A

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
83-				
-25	AN960-10L	Washer	6	A
-26	AN363-1032	Nut	3	A
-27	191925-0 -	Tail Pipe Assembly - R/N	1	A
-28	099004-254	Clamp	1	A
-29	191928-20	Mount.....	1	A
-30	191937-3	Bracket	2	A
-31	AN24-34	Bolt	1	A
	AN24-32	Bolt (Alternate for AN24-34)	1	A
-32	AN320-4	Nut	1	A
-33	AN380-2-2	Cotter Pin	1	A
-34	AN960-416	Washer	A/R	A
-35	198004-145	Spacer	1	A
-36	AN3-21	Bolt	1	A
-37	AN310-3	Nut	1	A
-38	AN380-2-3	Cotter Pin	1	A
-39	AN960-10	Washer	2	A



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
83-		EXHAUST SYSTEM ASSEMBLY-MODEL 17-30A		
	191961-0	Muffler Assembly - L/H	1	A
- 1	191485-30	Muffler	1	A
- 2	631544	Gasket (Continental P.N.)	3	A,D
- 3	191959-0	Shroud	1	A
- 4	191458	Clamp	2	A
- 5	AN520-10-20	Screw	4	A
- 6	AN96O-10L	Washer	2	A
- 7	AN363-1032	Nut	1	A
- 8	191927-0	Tail Pipe Assembly - L/H	1	A
- 9	099004-254	Clamp	1	A
-10	191928-20	Mount	1	A
-11	191928-3	Bracket	2	A
-12	AN4-21A	Bolt	1	A
-13	AN960-416	Washer	2	A
-14	MS21045-L4	Nut	1°	A
-15	AN3-21	Bolt	1	A
-16	AN960-10	Washer	2	A
-17	AN31-3	Nut	1	A
-18	AN380-2-3	Cotter Pin	1	A
-19	198004-145	Spacer	1	A
	191484-20	Muffler Assembly - R/H	1	A
-20	191484-10	Muffler	1	A
-21	631544	Gasket (Continental P.N.)	3	A,D
-22	191427	Shroud	1	A
-23	191458	Clamp	3	A
-24	AN520-10-20	Screw	3	A
CONTINUED ON NEXT PAGE				
D - Order from Continental Motors Corporation				

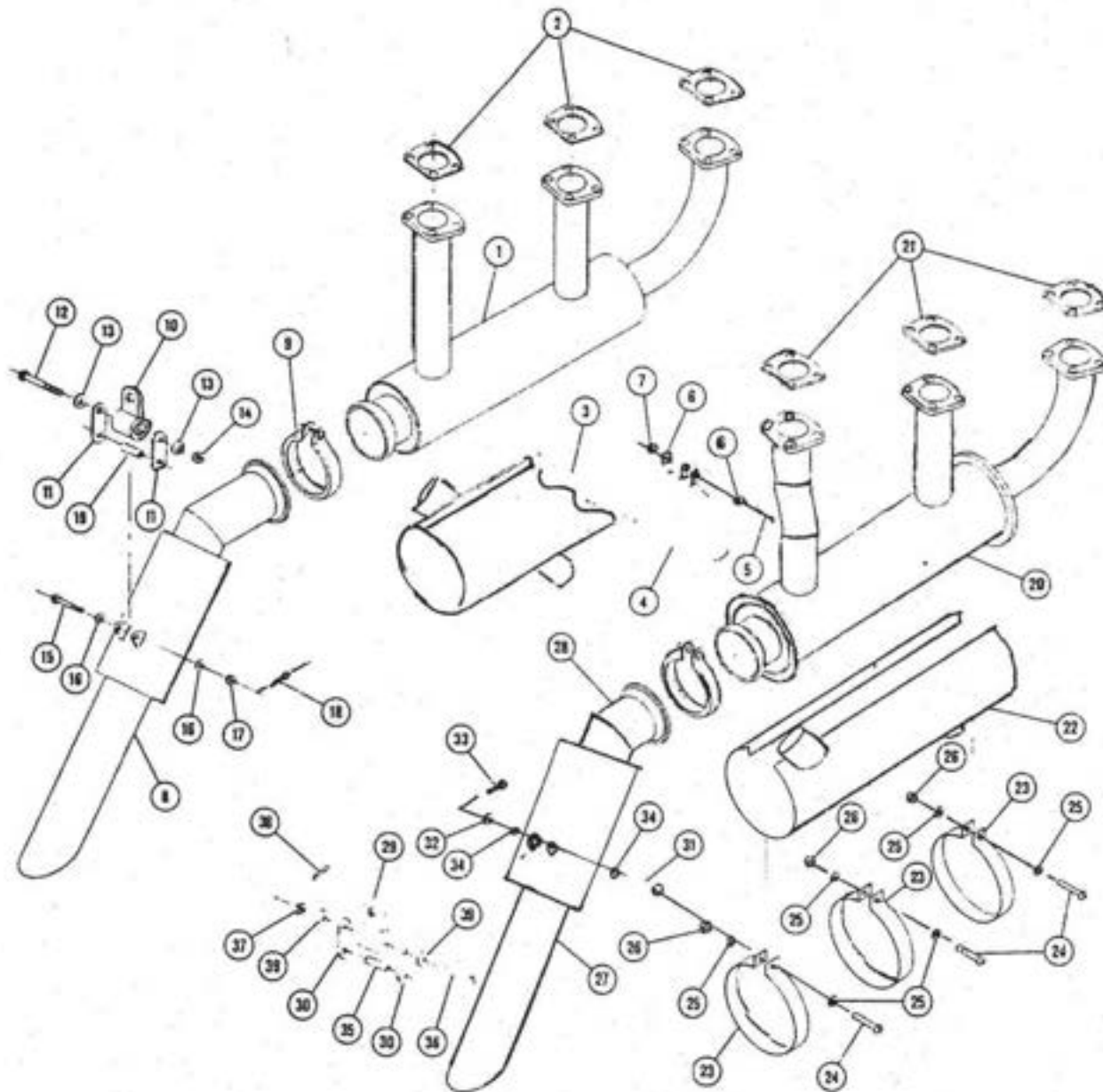


FIGURE 83. EXHAUST SYSTEM ASSEMBLY - MODEL 17-30A

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY,	CODE
82-		AIR INDUCTION INSTALLATION-MODEL 17-31ATC		
- 1	191956-30	Air Cleaner Assembly	1	C
- 2	191659-10	Door Assembly	1	C
- 3	AN526-6R10	Screw	3	C
- 4	AN960-6	Washer	6	C
- 5	MS20365-632	Nut	3	C
- 6	191648-1	Shim	1	C
- 7	191648-2	Shim	1	C
- 8	191973-1	Latch	4	C
- 9	201485	Filter	1	C
-10	191958-10	Cover - Air Cleaner	1	C
-11	191957-1	Gasket	1	C
-12	191953-1	Gasket	1	C
-13	191952-1	Toe Plate	1	C
-14	191645	Gasket	1	C
-15	MS24693-124	Screw	4	C
-16	AN960-516	Washer	4	C
-17	MS21045-5	Nut	4	C
-18	191688	Compressor Discharge	2	C
-19	198014-40	Flex Hose	2	C
-20	QS200-M48S	Clamp	4	C
-21	198014-50	Flex Hose	2	C
-22	QS200-M40S	Clamp	4	C
-23	198014-80	Flex Hose	2	C
-24	QS200-M40S	Clamp	4	C
-25	198014-60	Flex Hose	2	C
-26	QS200-M36S	Clamp	4	C
-27	AN6230-4	O Ring	1	C
-28	470930-16	Relief Valve	1	C
-29	MS352265-63	Screw	4	C
-30	AN960-10L	Washer	4	C

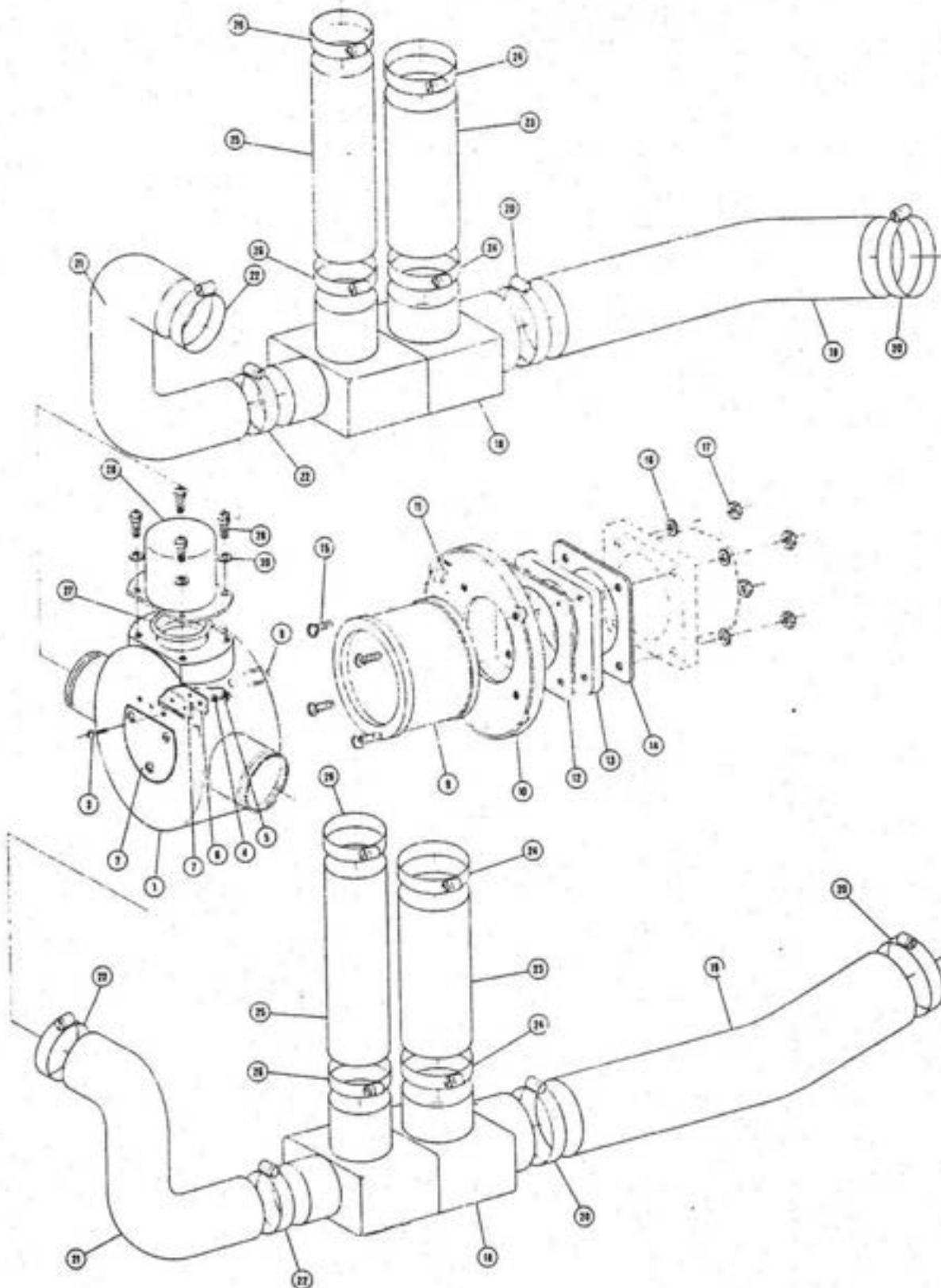


FIGURE 82, AIR INDUCTION INSTALLATION - MODEL 17-31ATC

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
81-		AIR INDUCTION INSTALLATION-MODEL 17-31A		
	191956-20	Air Cleaner Assembly	1	B
- 2	191659-10	Door Assembly	1	B
- 3	AN526-6R10	Screw	3	B
- 4	AN960-6	Washer	6	B
- 5	MS20365-632	Nut	3	B
- 6	191648-1	Shim	1	B
- 7.	191648-2	Shim	1	B
- 8	191973-1	Latch	4	B
- 9	201485	Filter	1	B
-10	191958-0	Cover - Air Cleaner Assembly	1	B
-11	191957-1	Gasket	1	B
-12	191953-1	Gasket	1	B
-13	191952-1	Toe Plate	1	B
-14	191645	Gasket	1	B
-15	MS24693-124	Screw	4	B
-16	AN960-516	Washer	4	B
-17	MS21045-5	Nut	4	B
-18	191772-1	Tube - Air Induction	2	B
-19	MS21919-DF48	Clamp	2	B
-20	MS21919-DF12	Clamp	2	B
-21	AN365-1032	Nut	2	B
-22	AN520-10-14	Screw	2	B
-23	AN960-10	Washer	4	B
-24	198003-102	Flex Hose	2	B
-25	S200-M48S	Clamp	4	B
-26	198014-10	Flex Hose	2	B
-27	QS200-M36S	Clamp	4	B

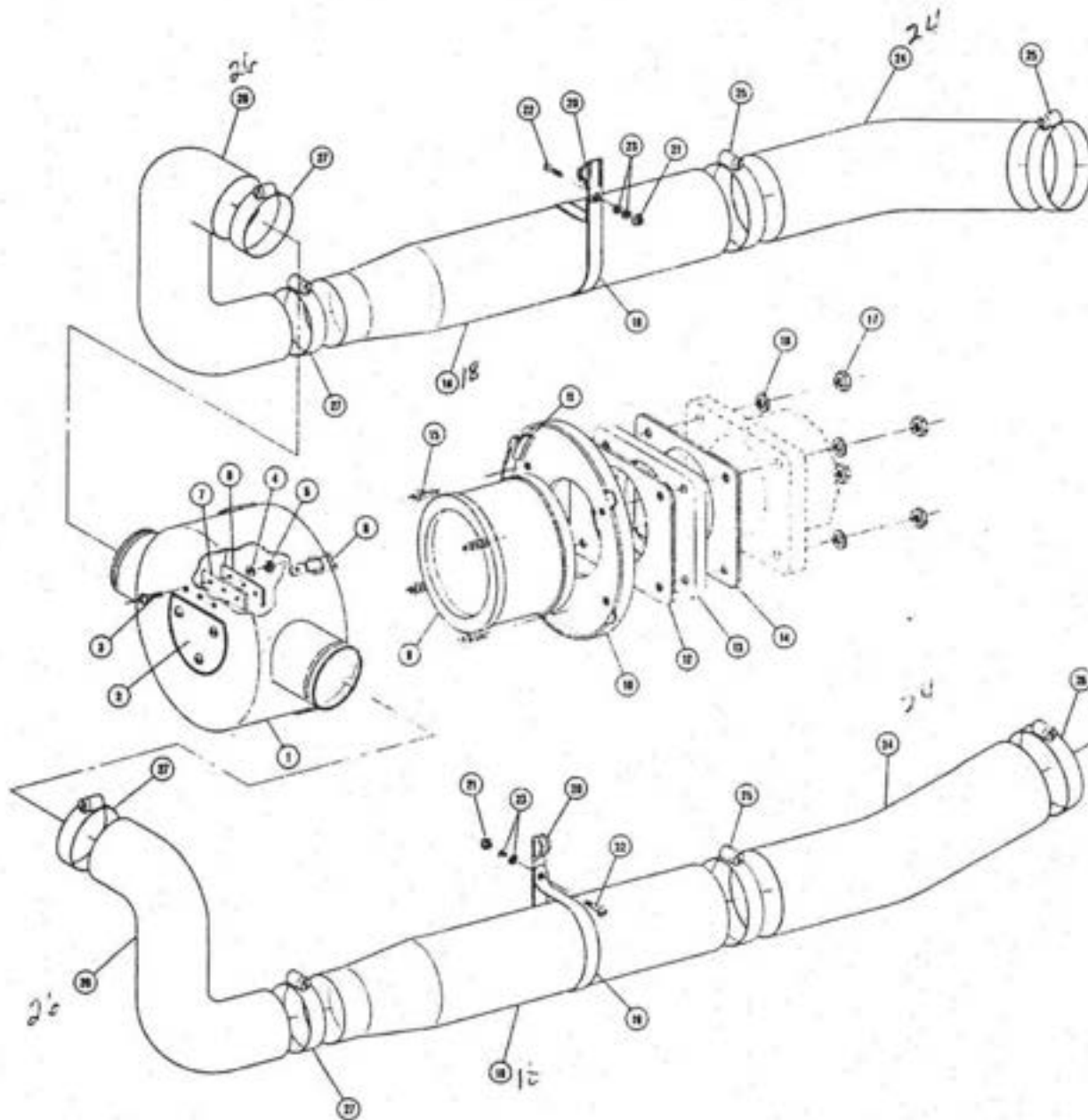


FIGURE 81. AIR INDUCTION INSTALLATION - MODEL 17-31A

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
80-		AIR INDUCTION INSTALLATION-MODEL 17-30A		
- 1	191942-0	Air Induction Box	1	A
- 2	191942-10	Cover - Air Induction Box	1	A
- 3	AF-2	Filter	1	A
	A48C	Filter (Alternate for AF-2)	1	A
	6485710	Filter (Alternate for AF-2)	1	A
- 4	191914-1	Plate	1	A
- 5	191704	Spacer	1	A
- 6	191900-0	Bracket - Throttle Warning Switch	1	A
- 7	630-350	Gasket (Furnished with engine)	1	A,D
- 8	AN4-20A	Bolt	4	A
- 9	AN960-416	Washer	4	A
	AN960--416L	Washer	A/R	A
-10	MS20875-428	Nut	4	A
		D - Order from Continental Motors Corporation.		

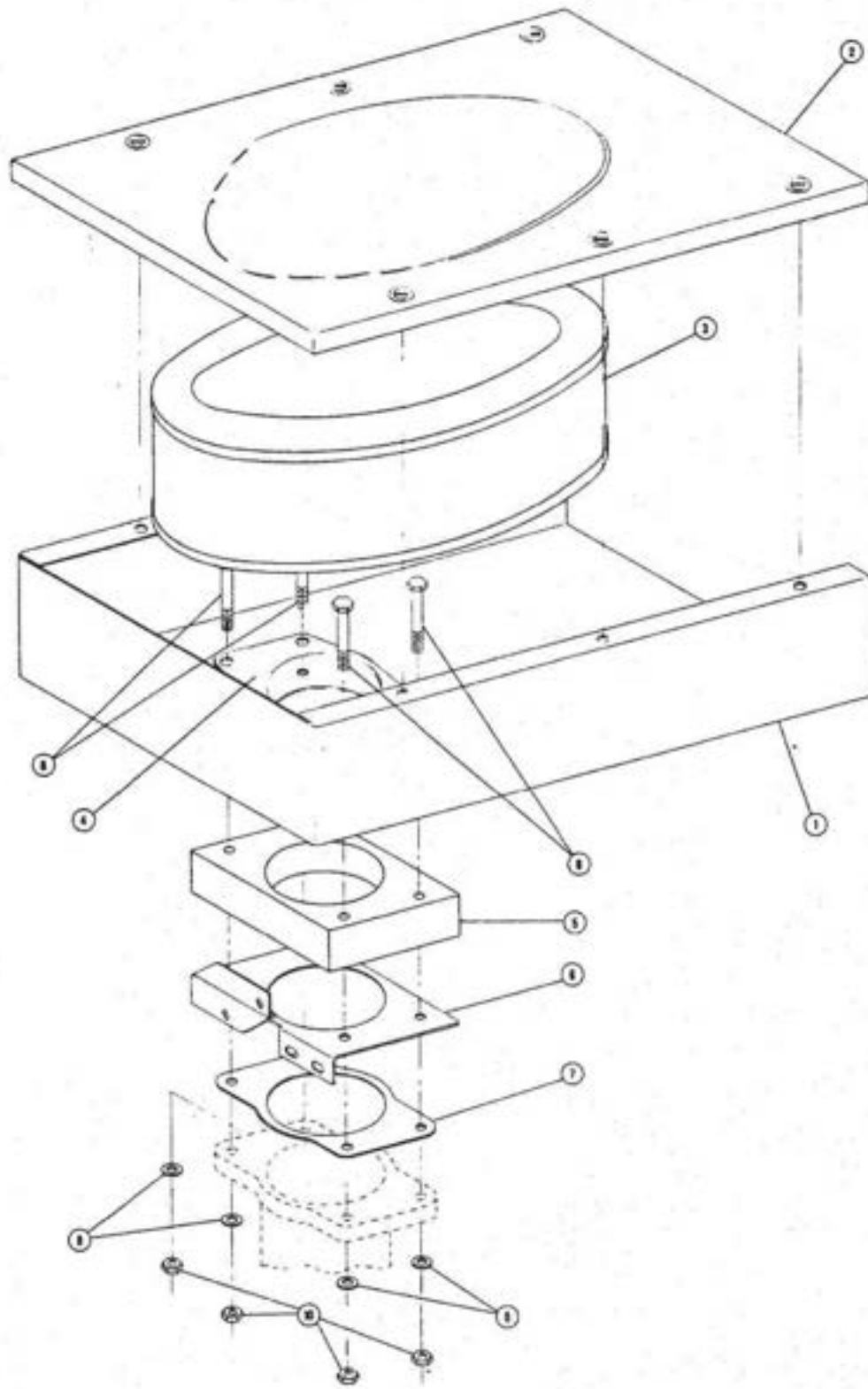


FIGURE 80. AIR INDUCTION INSTALLATION - MODEL 17-30A



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
78.-				
-41	AN526-6-6	Screw	4	B,C,G
	SB4-2	Rivet (An Equivalent Rivet May Be Used)	4	B,C,G
-42	AN960-6	Washer	4	B,C,G
-43	AN365-632	Nut	4	B,C,G
-44	191488-1	Baffle	1	B,C,E
	191488-2	Baffle	1	B,C,F
-45	MS35489-106	Grommet	1	B,C
-46	191539	Strip	1	B,C
-47	191549	Sealing Flap	1	B,C
-48	191544	Sealing Flap	2	B,C
-49	U201032	Sealing	1	C
E-Use this part if magneto wiring is installed passing through the center baffle 191488. F-Use this part if magneto wiring is installed passing through the rear baffles 191489 and 191872. G-Use the AN526-6-6 screw (with the washer and nut) or the SB4-2 rivet as installed at the factory.				



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
78.-				
-21	AN960-6	Washer	4	B,C
-22	AN365-632	Nut	2	B,C
-23	AN960-IOL	Washer	4	B,C
-24	191515	Baffle Assembly	1	B,C
-25	AN65-6-6	Hex Bolt	2	B,C
-26	936-A616	Star Washer	2	B,C
-27	AN960-616	Washer	2	B,C
-28	191516	Baffle Assembly	1	B,C
-29	AN500-416-10	Screw	2	B,C
-30	AN936-A416	Star Washer	2	B,C
-31	AN960-416	Washer	2	B,C
-32	191495	Baffle Assembly	1	B,C
-33	191541	Sealing Flap	1	B,C
-34	191547	Sealing Flap	1	B,C
-35	191546	Sealing Flap	1	B,C
-36	191545	Sealing Flap	1	B,C
-37	191526-0	Baffle Assembly	1	B
	191526-10	Baffle Assembly	1	C
-38	191489-2	Baffle	1	B,C,E
	191489-3	Baffle	1	B,C,F
-39	AN931-12-17	Grommet	1	B,C
-40	AN931-11-16	Grommet	1	B,C
CONTINUED ON NEXT PAGE				
E-Use this part is magneto wiring is installed passing through the center baffle 191488.				
F-Use this part if magneto wiring is installed passing through the rear baffles 191489 and 191872.				



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
78,-		ENGINE BAFFLES-MODELS 17-31A AND 17-31ATC		
	191527-0	Engine Baffle Assembly	1	
	191527-10	Engine Baffle Assembly	1	C
- 1	191517-10	Baffle Assembly	1	C,D
	191517-20	Baffle Assembly	1	B,D
-	191512	Clip	1	B,C
- 3	AN500-416-10	Screw	1	B,C
- 4	AN936-A416	Star Washer	1	B,C
- 5	A960-416	Washer	1	B,C
- 6	191492	Baffle	1	B,C
- 7	AN500-416-20	Screw	4	B,C
- 8	AN960-416	Washer	8	B,C
- 9	AN936-A416	Star Washer	8	B,C
-10	No. 20 x 1/4	Plain Hex Nut	4	B,C
-11	191493	Baffle	1	B,C
-12	AN500-416-10	Screw	8	B,C
-13	AN936-A416	Star Washer	8	B,C
-14	AN960-416	Washer	8	B,C
-15	191543	Sealing Flap	1	B,C
-16	191548	Sealing Flap	4	B,C
-17	191542	Sealing Flap	1	B,C
-18	191534	Brace	1	B,C
-19	191552	Brace	1	B,C
-20	AN526-6-8			B,C
		CONTINUED ON NEXT PA		
		D-Use baffle 191872-2 in this assembly if magneto wiring is installed through the right rear baffle 191872 and use 191872-1 baffle 191488.		

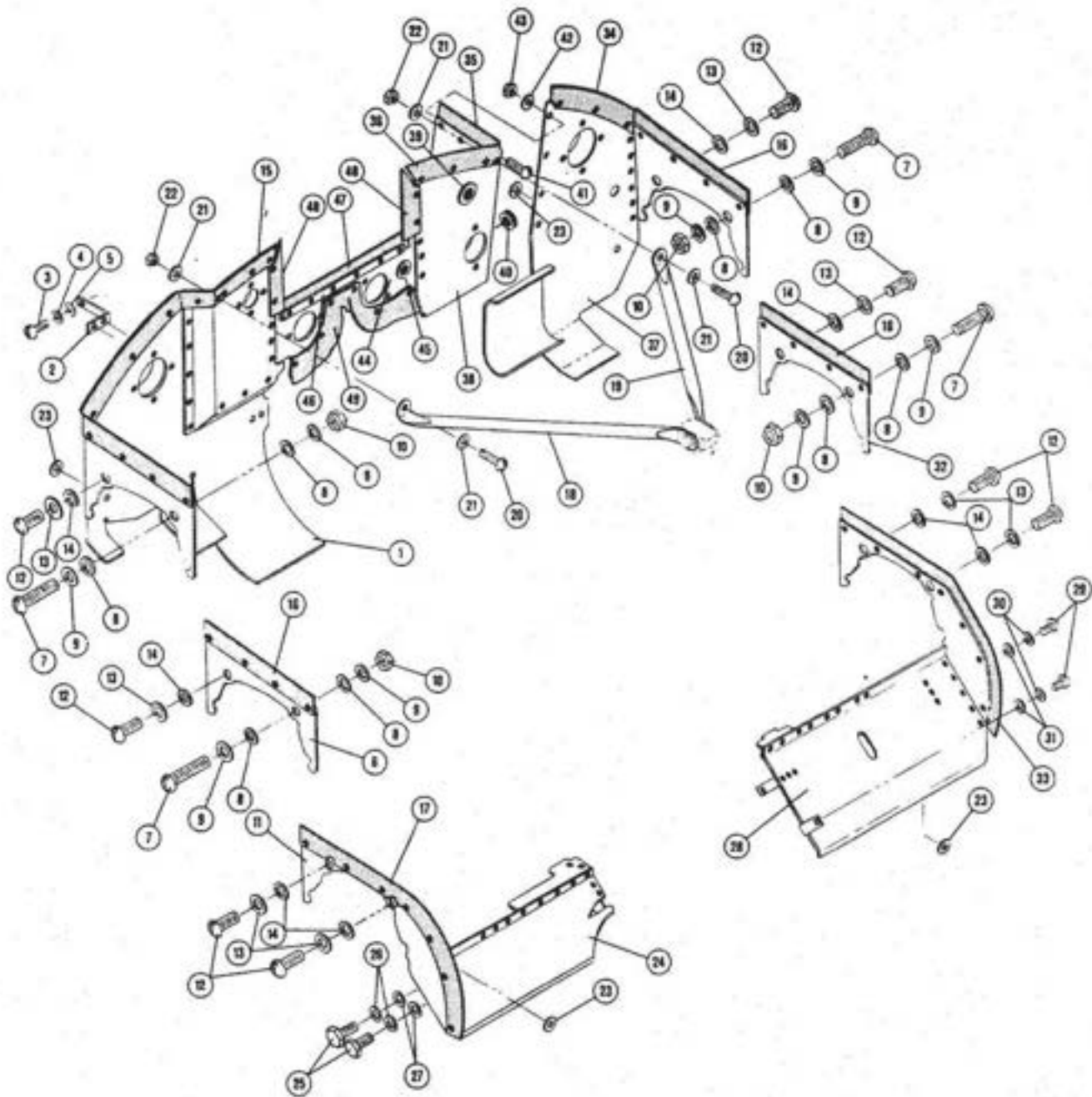


FIGURE 78. ENGINE BAFFLES - MODELS 17-31A AND 17-31ATC

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
77.-					
-29	191431	Mounting Bracket	1	A	
-30	191321-1	Baffle Support	4	A	
-31	191323-0	Baffle Assembly	4	A	
-32	191372-10	Bolt	4	A	
-33	AN960-6	Washer	4	A	
-34	191322-1	Baffle Support	2	A	
-35	19156-80	Baffle Assembly	4	A	
-36	19156-3	Spreader	4	A	
-37	191372-3	Bolt	2	A	
-38	191372-2	Bolt	2	A	
-39	AN960-10L	Washer	4	A	
-40	191320	Baffle Support	2	A	
-41	AN931-12-23	Grommet	1	A	
-42	AN931-7-11	Grommet	1	A	
-43	AN931-12-27	Grommet	1	A	
-44	No. 18	Soft Brass Wire	A/R	A	



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
77.-		ENGINE BAFFLES - MODEL 17-30A		
	191718	Installation - Engine Baffles	-	A
1	191714-10	Baffle	1	A
- 2	191715	Sealing Flap	1	A
- 3	191309	Baffle	1	A
- 4	AN526-6-6	Screw	11	A
- 5	AN960-6	Washer	17	A
- 6	AN365-632	Nut	15	A
7	AN931-6-10	Grommet	6	A
- 8	19161	Brace	1	A
- 9	AN526-6-8	Screw	4	A
-1 0	191311	Baffle	1	A
-11	191373-0	Baffle Assembly	1	A
-12	191373-3	Channel Rubber	1	A
-13	191373-2	Brace	1	A
-14	191880-2	Sealing Flap	1	A
-15	191371-20	Baffle Assembly	1	A
-1	191371-6	Channel Rubber	1	A
-17	AN960-416L	Washer	1	A
-18	191963-0	Scoop Assembly	1	A
-19	MS27151-21	Pal Nut	1	A
-20	191308	Baffle	1	A
-21	191307	Baffle	1	A
-22	191310	Baffle	1	A
-23	191315	Corner Brace	1	A
-24	191880-1	Sealing Flap	1	A
-25	191716	Sealing Flap	1	A
-2	191713-30	Baffle Assembly	1	A
-27	19160	Brace	1	A
-28	06	Channel Rubber	2	A

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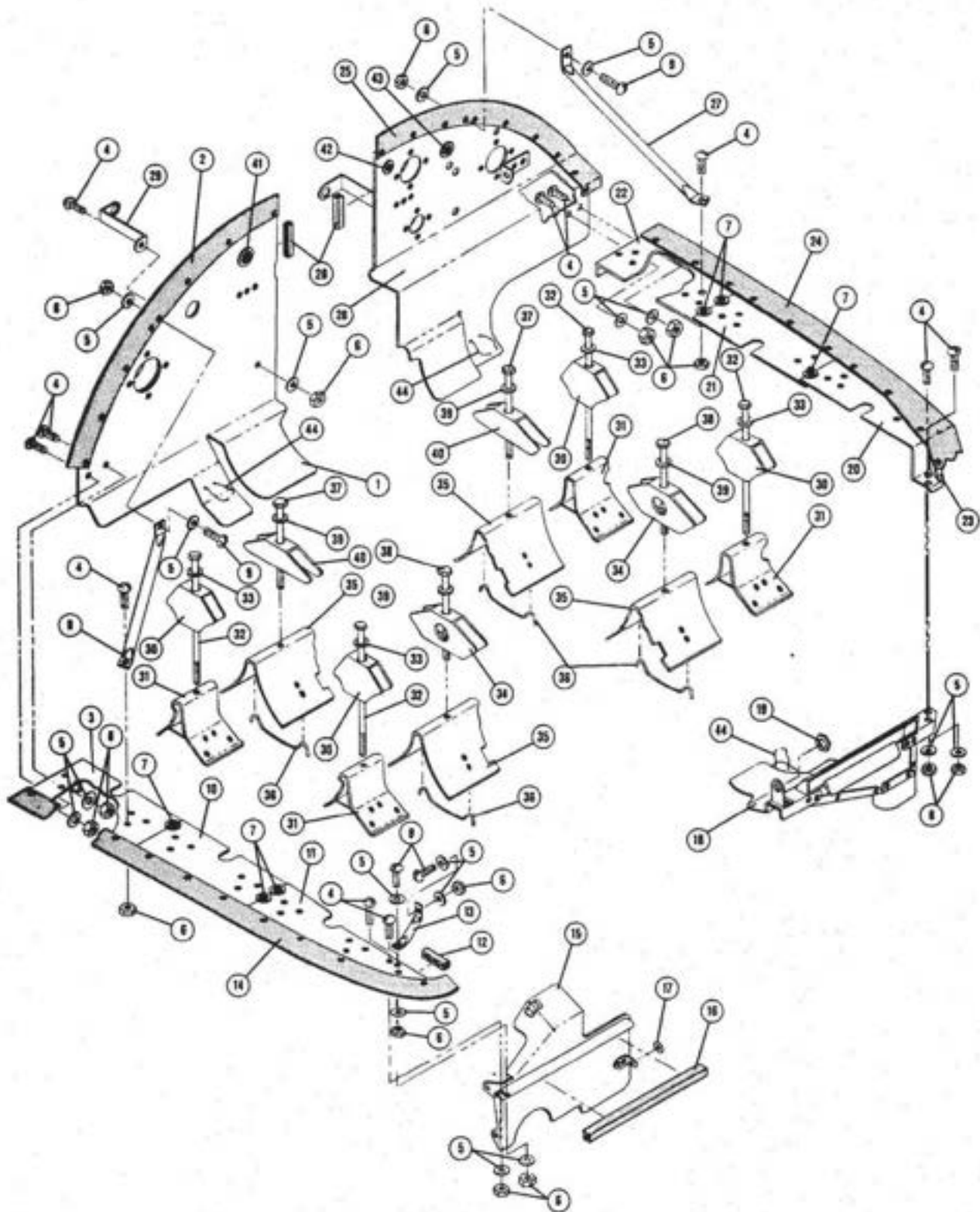


FIGURE 77. ENGINE BAFFLES - MODEL 17-30A

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76.-

191378-70

Propeller Assembly, Hartzell

1

C

HC-03YR-1RF/

F8468A-6R

Propeller

1

C-3552-1

Spinner

1

Note: Propellers and spinners cannot be
interchanged. Only assemblies as
indicated may be interchanged.



FIGURE AND INDEX NOV.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
76.-		PROPELLER INSTALLATION		
- 1	191378	Installation - Propeller		
	191378-2	Propeller Assembly, McCauley	1	
	D2A34C58/90AT-10	Propeller	1	
	D2771	Spinner	1	
	191378-80	Propeller Assembly, Hartzell	1	A,D
	HC-C3YF-1RF/ F8468-8R	Propeller	1	
	C3535-1	Spinner	1	
	191378-0	Propeller Assembly, McCauley	1	A,D
	D3A32C90/82NC-4	Propeller	1	
	D3669	Spinner	1	
	191378-40	Propeller Assembly, McCauley	1	A,D
	D3A32C90/82NC-4	Propeller	1	
	D3867	Spinner	1	
	191378-120	Propeller Assembly, Hartzell	1	B
	HC-C2YR-1BF/ F8475D4	Propeller	1	
	A3519	Spinner	1	
	191378-7	Propeller Assembly, Hartzell	1	B,D
	HC-C3YR-1 F/ F8468A-6R	Propeller	1	
	C-3552-1	Spinner	1	
	191378-110	Propeller Assembly, Hartzell	1	B,D
	HC-C2YK-1BF/ F8475D4	Propeller	1	
	A3519	Spinner	1	
CONTINUED ON NEXT PAGE				
Note: Propellers and spinners cannot be interchanged. Only assemblies as indicated may be interchanged. D-These parts are alternates to the standard parts and are installed by customer request				

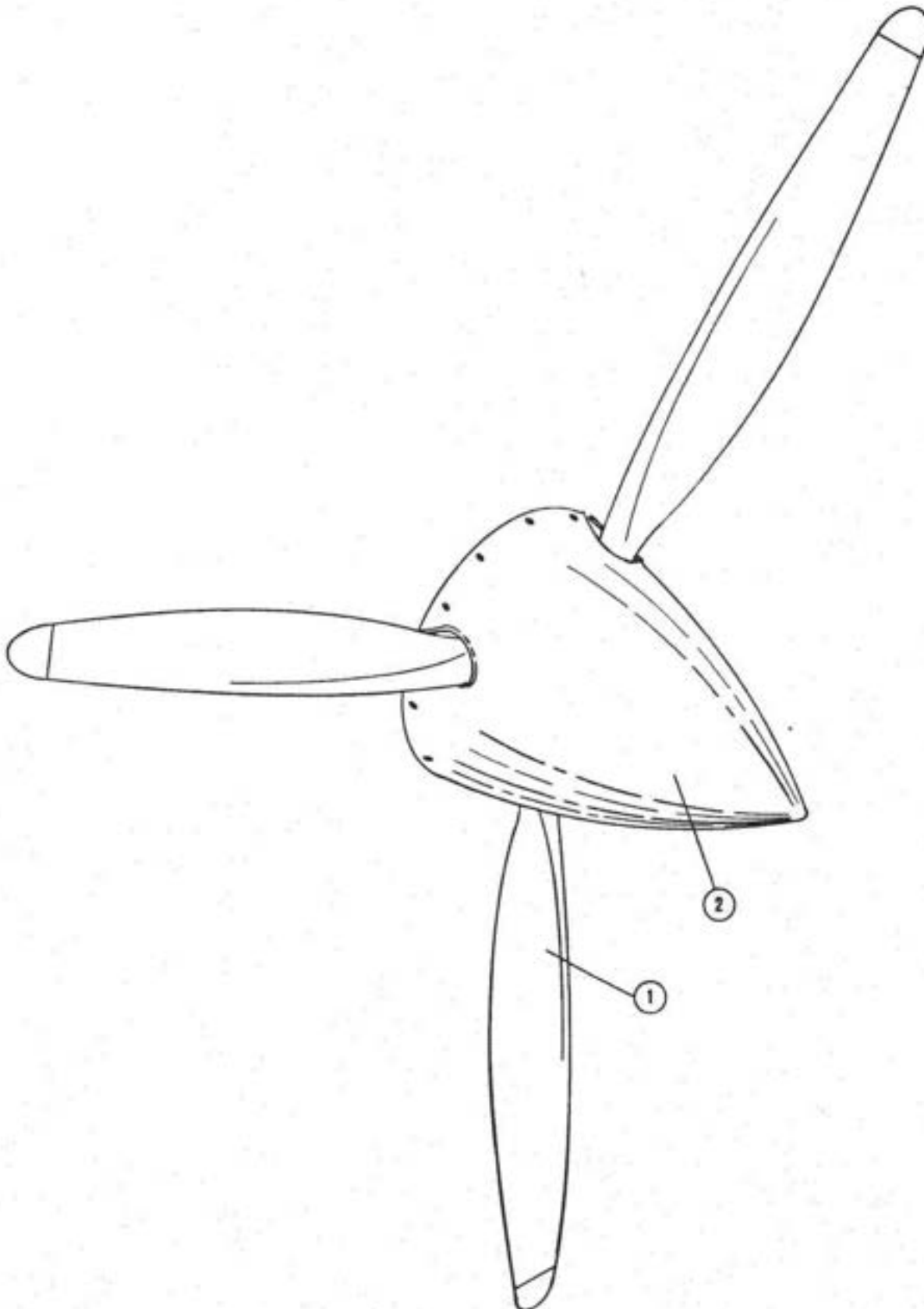


FIGURE 76. PROPELLER INSTALLATION

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
7.-				
-19	AN503-8-6	Screw	2	C
-20	AN960-8	Washer	2	C
-21	0191980-1	Bracket	1	C
-22	198008-168	Metal Line	1	C,G
	AN818-4D	Coupling Nut	2	C
	AN819-4D	Sleeve	2	C
-23	198008-167	Metal Line	1	C,G
	AN818-4D	Coupling Nut	2	C
	AN819-4D	Sleeve	2	C
-24	198010-54	Flex Hose	1	C
-25	198010-64	Flex Hose	1	C,H
-26	MS20822-2D	90° Elbow	1	C
-27	198010-58	Flex Hose	1	C
-28	AN822-6D	90° Elbow	1	C
-29	191996-1	Reducer	1	C
-30	198003-70	Flex Hose	1	C
-31	MS20823-4D	45° Elbow	1	C
-32	198008-171	Metal Line	1	C,G
	AN818-4D	Coupling Nut	1	C
	AN819-4D	Sleeve	1	C
-33	QS200-M6S	Clamp	2	C
-34	198010-48	Drain Tube	1	C
-35	198008-169	Metal Line	1	C
-36	AN3-4A	Bolt	4	C
-37	AN960-10	Washer	4	C
		G-This part sold as a unit with the nuts and sleeves assembled.		
		H-This part is interchangeable with 198010-70.		



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
74.-		TURBO SYSTEM - ACTUATOR SUB-ASSEMBLY		
	191988	Installation - Actuator Sub-Assembly	-	C
	191989-0	Controller, Sub-Assembly	-	C
- 1	RJ8007-3	Controller	1	C
- 2	2062-6-	90° Fitting	3	C
- 3	2061-6-6S	45 Fitting	1	C
- 4	191993-0	Adaptor	1	C
- 5	AN814-6D	Plug	1	C
- 6	202702-6-4S	Straight Fitting	2	C
- 7	AN4-6A	Bolt	2	C
- 8	AN960-416L	Washer	2	C
- 9	AN960-416	Washer	2	C
-10	MS20365-428	Nut	2	C
	191997-10	Assembly, Actuator	1	C,D
-11	RJ8003-11	Actuator	1	C,E
-12	201006-0	Cable	1	C,F
	MS20667-2	Fork End	1	C,F
-13	AN5-6A	Bolt	2	C
-14	AN960-516L	Washer	2	C
-15	.MS20365-524	Nut	2	C
-16	2HHRVSV20403	Solenoid	1	C
-17	AN816-4D	Nipple	1	C
-18	822-	90 Elbow	1	C
		Continued On Next Page		
		D-This assembly is interchangeable with 191997-0.		
		E-191997-0 Assembly uses RJ8008-2 in place of RJ8003-11.		
		F-201006-0 cable and MS20067-2 forkend sold assembled as a unit only.		

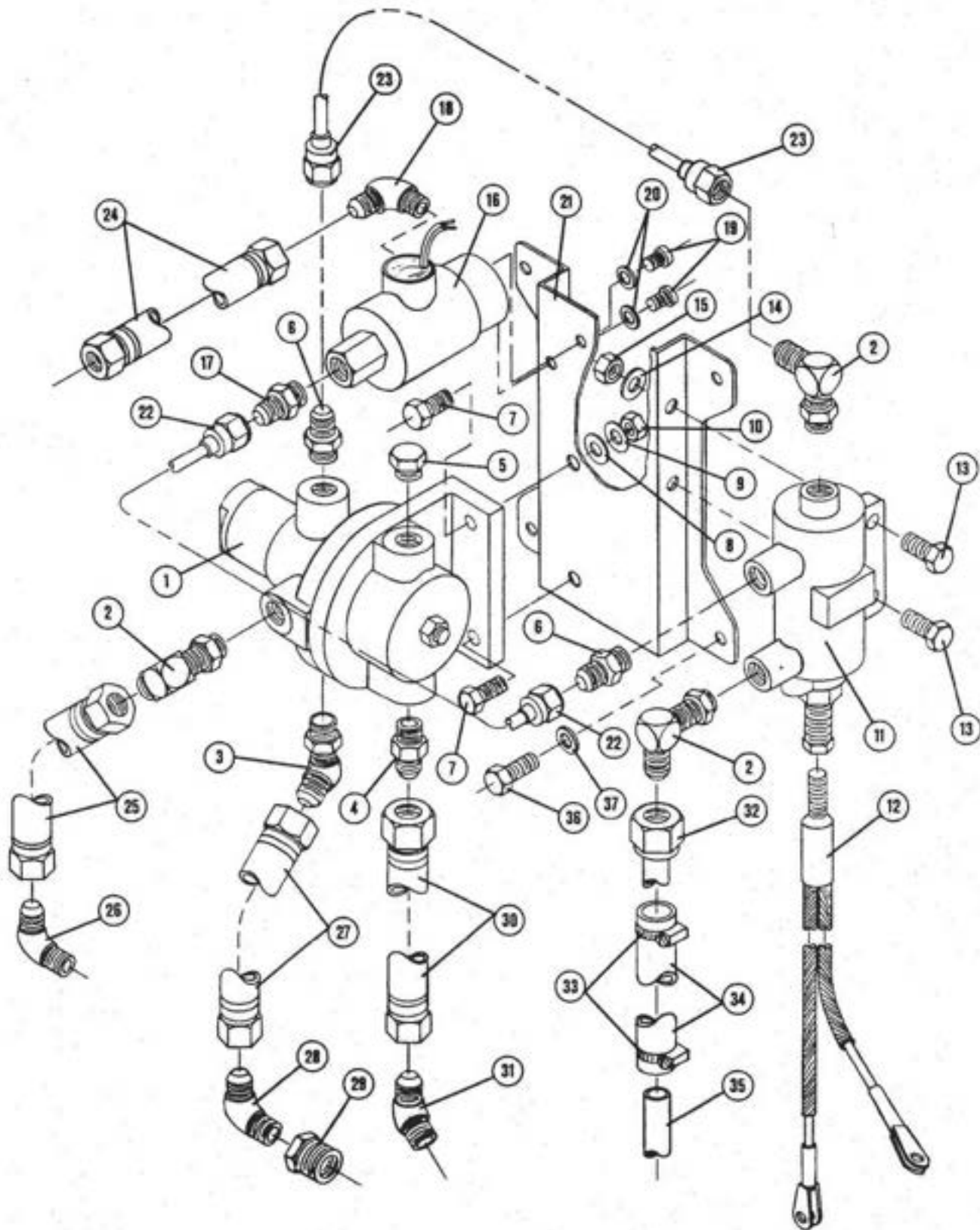


FIGURE 74. TURBO SYSTEM - ACTUATOR SU-ASS LY

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
73-		TURBO SYSTEM - FUEL PUMP ASSEMBLY		
- 1	191590-0	Fuel Pump Assembly	1	C
- 2	LW10799	Spacer	1	C
- 3	MS20822-8D	Elbow	1	C
- 4	198003-10	Flex Hose, In	1	C
	191749-1	Fire Sleeve	1	C
	900591-B1C	Clamp	2	C
- 5	MS20822-6D	Elbow	1	C
- 6	198010-13	Flex Hose, Out	1	C
- 7	AN816-3D	Nipple, Drain	1	C
- 8	AN818-3D	Nut, Coupling1	1	C
- 9	AN819-3	Sleeve, Coupling	1	C
-10	198008-54	Line, Metal	1	C
-11	198003-108	Hose	1	C
-12	198003-107	Flex Hose	1	C
-13	QS200-M28S	Clamp	2	C

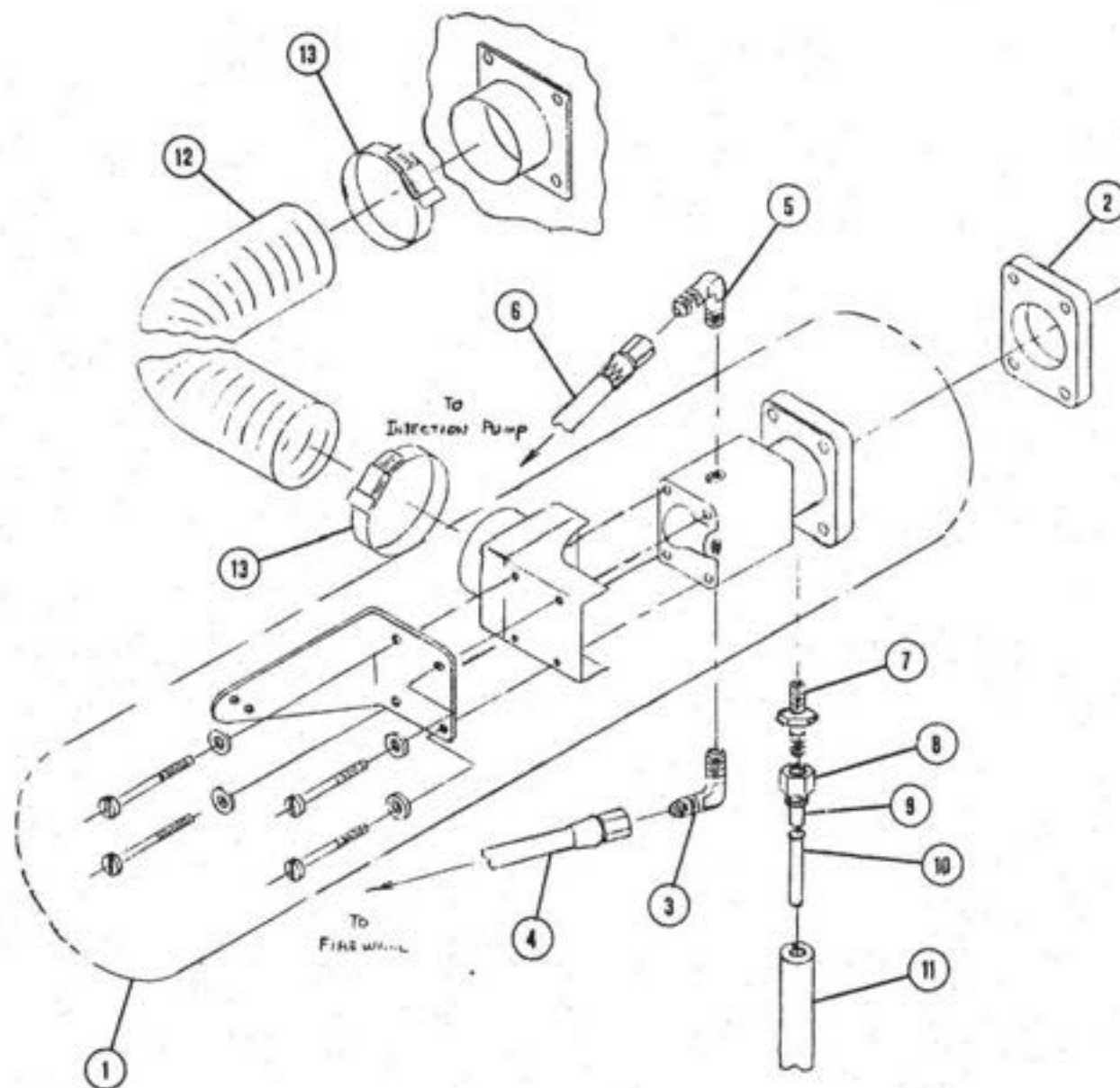


FIGURE 73. TURBO SYSTEM - FUEL PUMP ASSEMBLY

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
72-		TURBO SYSTEM - COMPRESSOR DISCHARGE		
	191688	Compressor Discharge Assembly	1	C,D
- 1	191691	Box, Front	1	C,D
- 2	191692	Box, Rea	1	C,D
- 3	RJ0027-10	Trap	1	C,D
- 4	LL22D62P8x2	Screw	8	C,D
- 5	AN960-6	Washer	6	C,D
- 6	198014-40	Flex Hose	1	C,D
- 7	198014-50	Flex Hose	1	C,D
- 8	198014-60	Flex Hose	1	C,D
- 9	198014-80	Flex Hose	1	C,D
-10	QS200-M40S	Clamp	4	C,D
-11	QS200-M36S	Clamp	2	C,D
-12	5200- 48S	Clamp	2	C,D
- Left hand shown, right hand typical.				

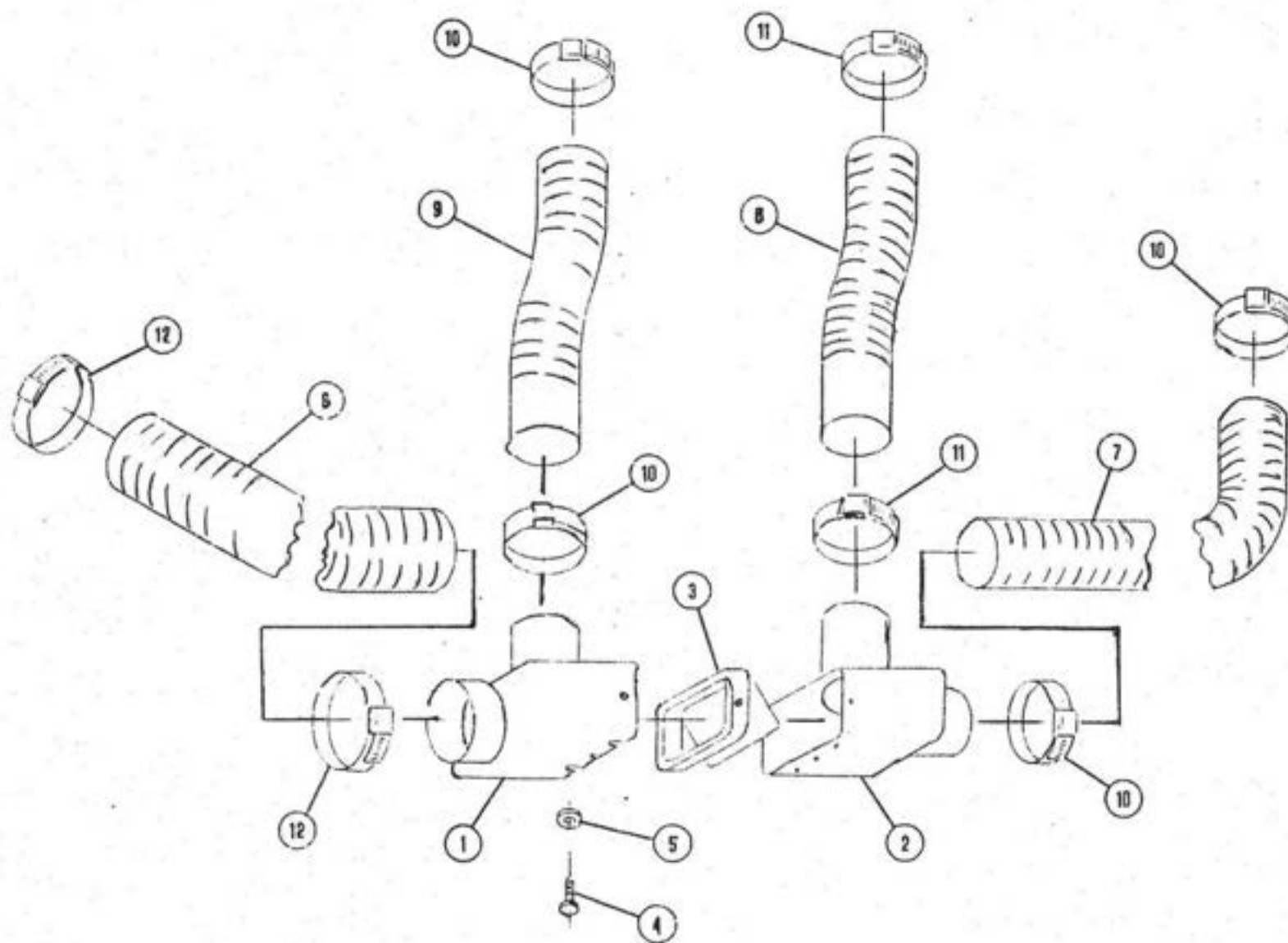


FIGURE 72. TURBO SYSTEM- COMPRESSOR DISCHARGE ASSEMBLY



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
71.-		TURBO SYSTEM - AIR INJECTION HARDWARE		
	191556	Installation - Power Plant Fluid Lines	-	C
- 1	MS20825-4D	Tee	1	C
- 2	198003-74	Flex	2	C
- 3	AN833-4D	Elbow	2	C
- 4	AN924-4D	Nut	2	C
- 5	191594	Tube, R/H	1	C
- 6	191595	Tube, L/H	1	C
- 7	191988-1	Tube	6	C
8	RJ1034.	Fuel Nozzle Shroud	6	C
- 9	RJ1031	Grommet	12	C
-10	AN960-516L	Washer	6	C
-11	198010-57	Flex Hose	1	C
-12	198003-97	Flex Hose	2	C
-13	AN911-1D	Nipple	1	C
-14	191879-0	Elbow	1	C
-15	AN917-1D	Tee	1	C
-16	AN826-2D	Tee	1	C
-17	AN960-716	Washer	4	C
-18	AN816-2D	Nipple	1	C

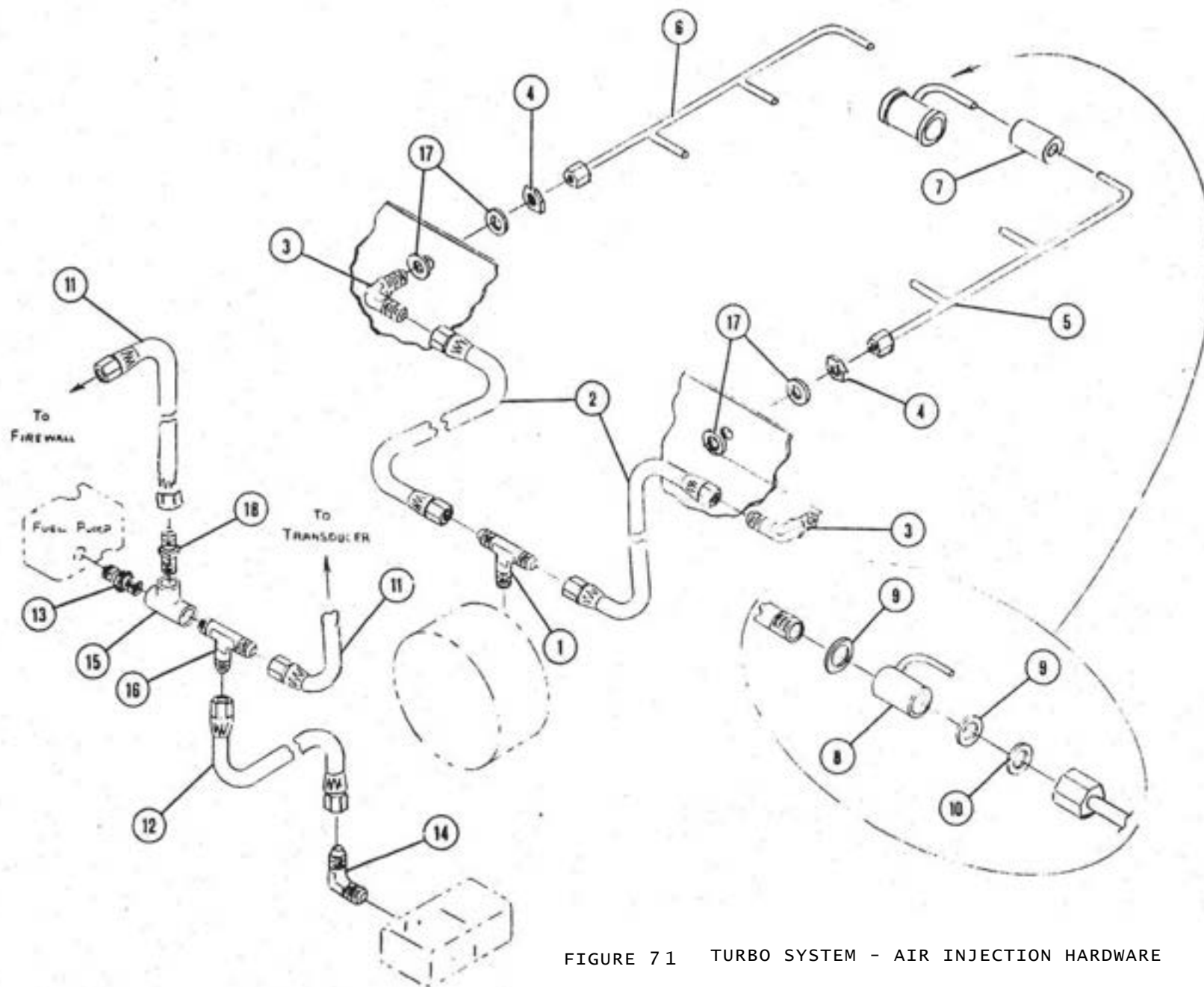


FIGURE 71 TURBO SYSTEM - AIR INJECTION HARDWARE

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FIGURE AND INDEX NO,	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
70-		TURBO SYSTEM - SCAVENGER PUMP HOSES		
- 1	RJ1025-1	Scavenger P u m p	-	C,D
- 2	MS20822-6D	Elbow	3	C
- 3	198010-9	Flex Hose	1	C
- 4	198010-53	Flex Hose	1	C
- 5	MS20822-6-8D	Elbow	2	C
- 6	AN824-6	Tee	1	C
- 7	198010-52	Flex		C
			2	
		0 - See Figure Number 69.		

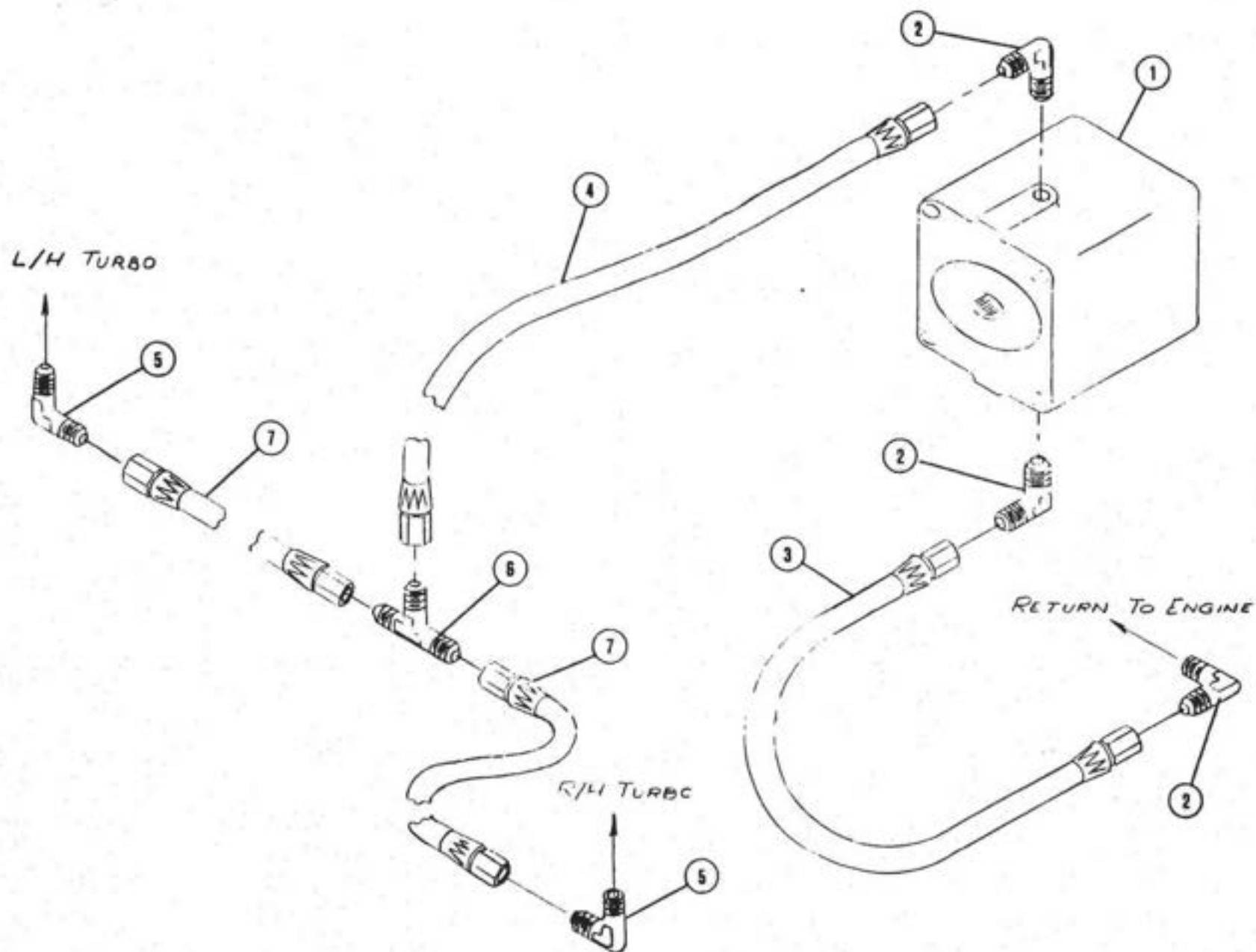


FIGURE 70. TURBO SYSTEM - SCAVENGER PUMP HOSES

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69-		TURBO SYSTEM - SCAVENGER PUMP INSTALLATION		
- 1	RJ1025-1	Scavenger Pump	1	
- 2		Gasket	2	C
- 3	191741-2	Stud	4	C
- 4		Plate	1	C,D
- 5	AN960-416	Washer	4	C
- 6	AN936-A416	Washer	4	C
- 7	AN316-4	Nut	4	C
D - This part is provided with the engine from Avco Lycoming.				

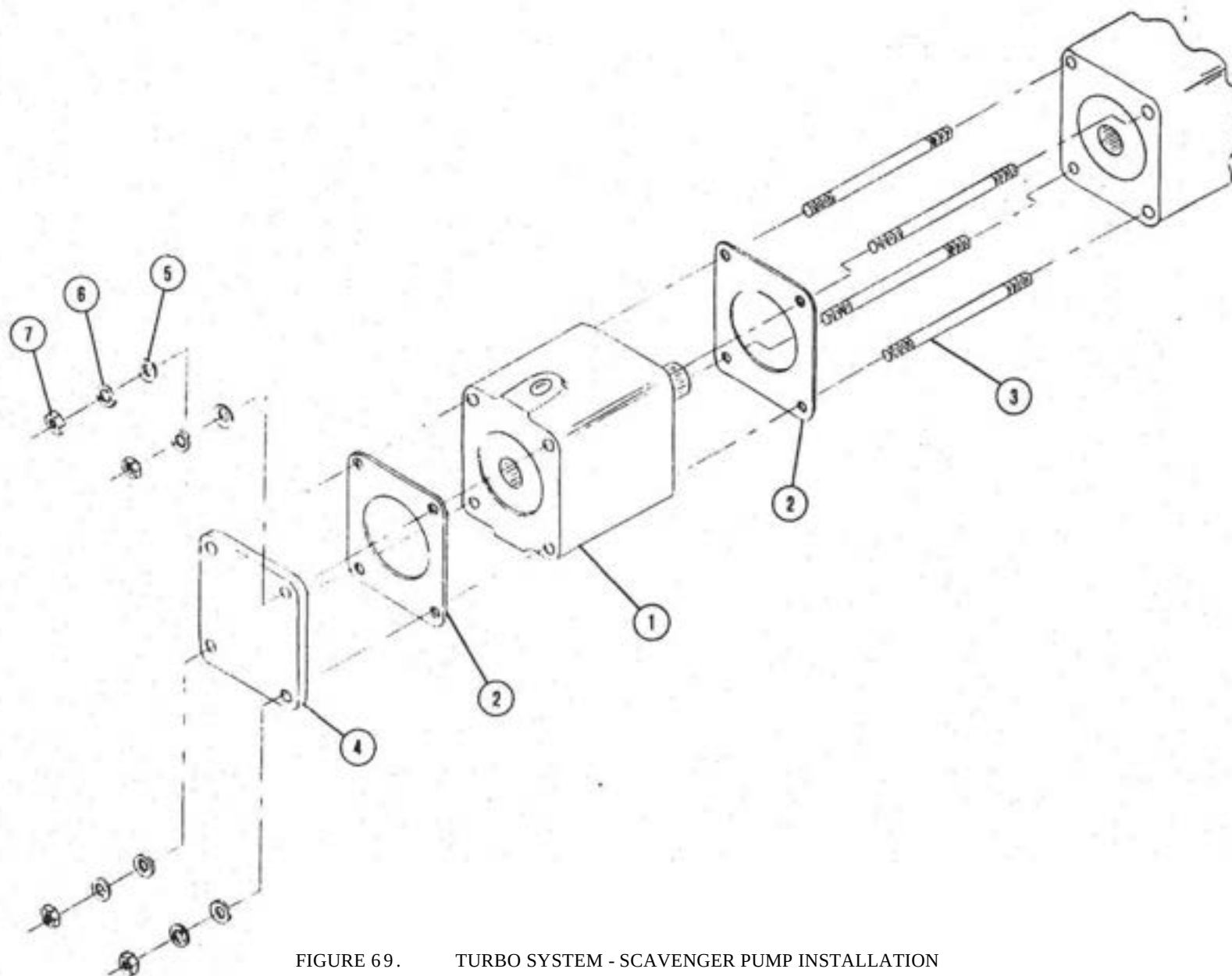


FIGURE 69. TURBO SYSTEM - SCAVENGER PUMP INSTALLATION



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
68-		TURBO SYSTEM - MOUNTING HARDWARE		
- 1	RJ0080-100	Turbo Charger	1	C,D
	RL10080-101	Turbo Charger (Alternate for RJ0080-100)	1	C,D
	RJ0080-102	Turbo Charger (Alternate for RJ0080-100)	1	C,D
- 2	191673	Mounting Yoke, L/H	1 L/H	C
	191663	Mounting Yoke, R/H	1 R/H	C
- 3	191625	Support Arm, L/H	1 L/H	C
	191623	Support Arm, R/H	1 R/H	C
- 4	191641	Support Housing, L/H	1 L/H	C
	191634	Support Housing, R/H	1 R/H	C
- 5	191627	Support Arm, L/H	1 L/H	C
	191629	Support Arm, R/H	1 R/H	C
- 6	191643	Housing, L/H	1 L/H	C
	191633	Housing, R/H	1 R/H	C
- 7	191674-10	Mounting Yoke, L/H	1 L/H	C
	191674-20	Mounting Yoke, R/H	1 R/H	C
- 8	191677	Mounting Tab	2	C,D
- 9	AN4-5A	Bolt	5	C,D
-10	AN960-416	Washer	10	C,D
-11	MS21045-4	Nut	5	C,D
-12	AN4-26A	Bolt	3	C,D
-13	AN960-416	Washer	6	C,D
-14	MS21045-4	Nut	3	C,D
-15	AN5-12A	Bolt	1	C,D
-16	AN960-516	Washer	2	C,D
-17	MS21045-5	Nut	1	C,D
-18	AN5-14A	Bolt	1	C,D
-19	AN960-516	Washer	2	C,
-20	MS21045-6	Nut	1	C,D
		D - Left hand shown, right hand typical.		

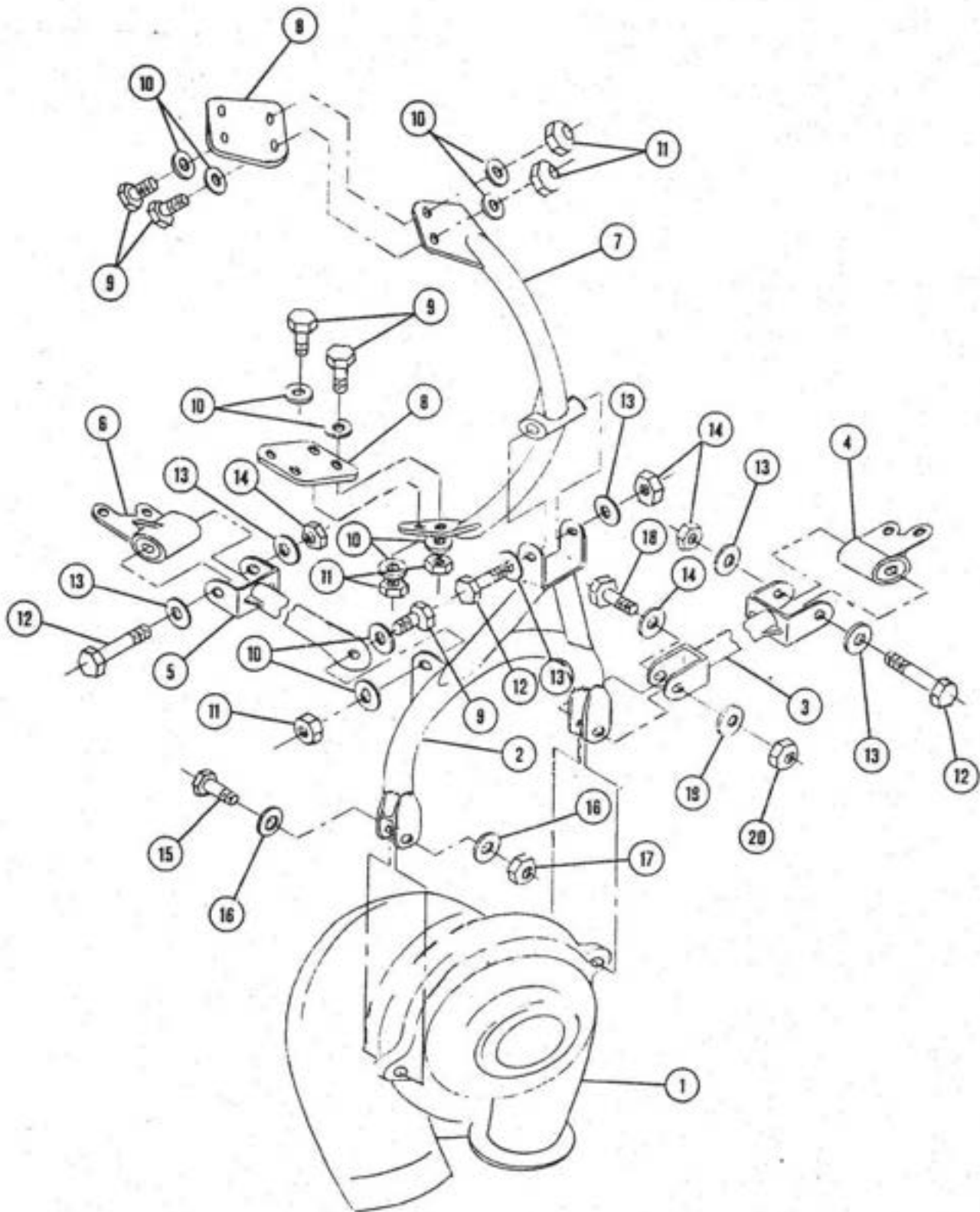


FIGURE 68. TURBO SYSTEM - MOUNTING HARDWARE

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
67.2-	IO-540-K1E5 RJOO80-100	ENGINE INSTALLATION - MODEL 17-31A AND 17- 31 ATC Engine - Lycoming Turbo Charger (See Figure 68)	1	B,C C



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
67.1-		ENGINE MOUNT-MODELS 17-31A AND 17-31ATC		
	191750	Installation - Power Plant	-	B
	191557	Installation - Power Plant	-	C
- 1	191524-0	Engine Mount	1	B
	191524-10	Engine Mount	1	C
- 2	J-9868-5	Lord Mount, Assembly	4	B,C
- 3	J-9555-3	Mount	2	B,C
- 4	Y-9465-2	Bushing	1	B,C
- 5	21S-125-0500	Pin	8	B,C
- 6	AN7-33A	Bolt	4	B,C
- 7	AN960-716L	Washer	8	B,C
- 8	AN960-716	Washer	4	B,C
- 9	AN365-720	Nut	4	B,C
-10	AN6-57M	Bolt, Bottom Attach	2	B
	AN6-50M	Bolt, Bottom Attach	2	C
-11	AN960-616	Washer	A/R	B,C
-12	AN960-616L	Washer	A/R	B,C
-13	AN6-55M	Bolt, Top Attach	2	B,C
-14	AN970-6	Washer	4	B,C
-15	AN310-6	Nut	4	B,C
-16	AN380-3-3	Cotter Pin	4	B,C
	191749	Installation - Power Plant Fluid Lines	-	B
	191556	Installation - Power Plant Fluid Lines	-	C
-17	U191983-1	Plate, Remote Oil Filter	1	B,C
-18	AN5-5A	Bolt, Plate Attach	3	B,C
-19	AN960-516	Washer	6	B,C
-20	MS20365-524	Nut	3	B,C

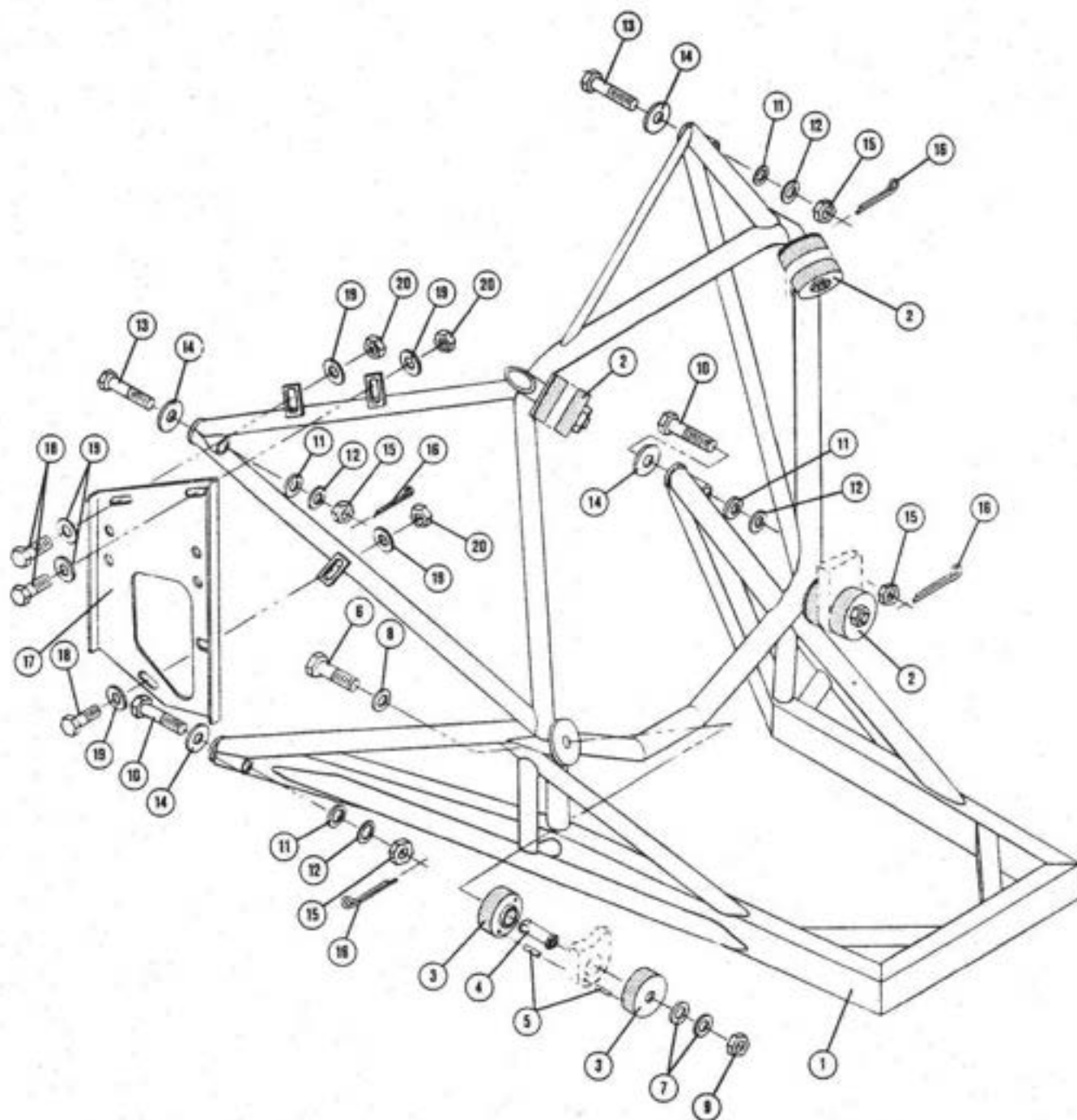


FIGURE 67, ENGINE MOUNT - MODELS 17-31A AND 17-31ATC

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	FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
	66.2-	10-520-K1A	ENGINE INSTALLATION - MODEL I7-30A Engine -Continental	1	A

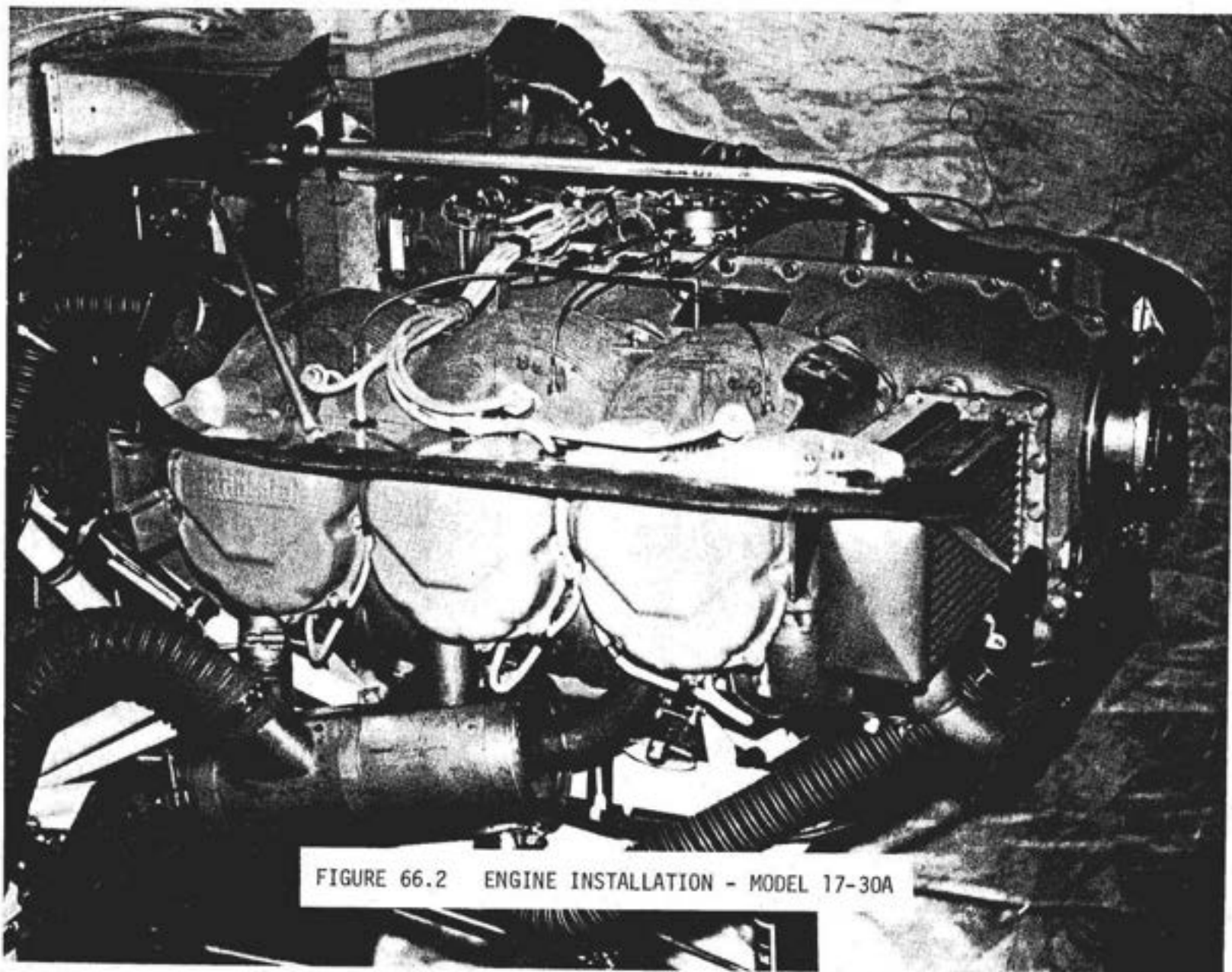


FIGURE 66.2 ENGINE INSTALLATION - MODEL 17-30A



FIGURE AND INDEX N .	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
66.1-		ENGINE MOUNT - MODEL 17-30A		
	191717	Installation - Power Plant		A
- 1	191898	Engine Mount	1	A
	191904-0	Mounting Assembly - Front	1	A
- 2	J-12453-2	Lord Mount Assembly - Front	2	A
- 3	J-10931-11	Bushing	1	A
- 4	J-12454-1	Mount (BOttOM)	1	A
- 5	J-12454-2	Mount (Top)	1	A
- 6	AN4-7A	Bolt	4	A
- 7	AN960-416	Washer	4	A
- 8	AN363-428	Nut	4	A
9	191929	Shield	2	A
-10	AN960-716L	Washer	2	A
-11	AN960-716	Washer	2	A
-12	AN7-41A	Bolt	2	A,D
	191904-20	Mounting Assembly - Rear	1	A
-13	J-12453-1	Lord Mount Assembly - Rear	2	A
-14	J-10931-11	Bushing	1	A
-15	J-12454-1	Mount	2	A
-16	AN4-7A	Bolt	4	A
-17	AN960-416	Washer	4	A
-18	AN363-428	Nut	4	A
-19	AN960-716L	Washer	2	A
-20	AN7-40A	Bolt	2	A,D
-21	AN6-57M	Bolt (Bottom)	2	A
-22	AN6-51M	Bolt (Top)	2	A
-23	AN960-616	Washer	6	A
-2	AN310-6	Nut	4	A
-25	AN380-3-3	Cotter Pin	4	A
		D- Barrel nuts furnished by engine manufacturer.		

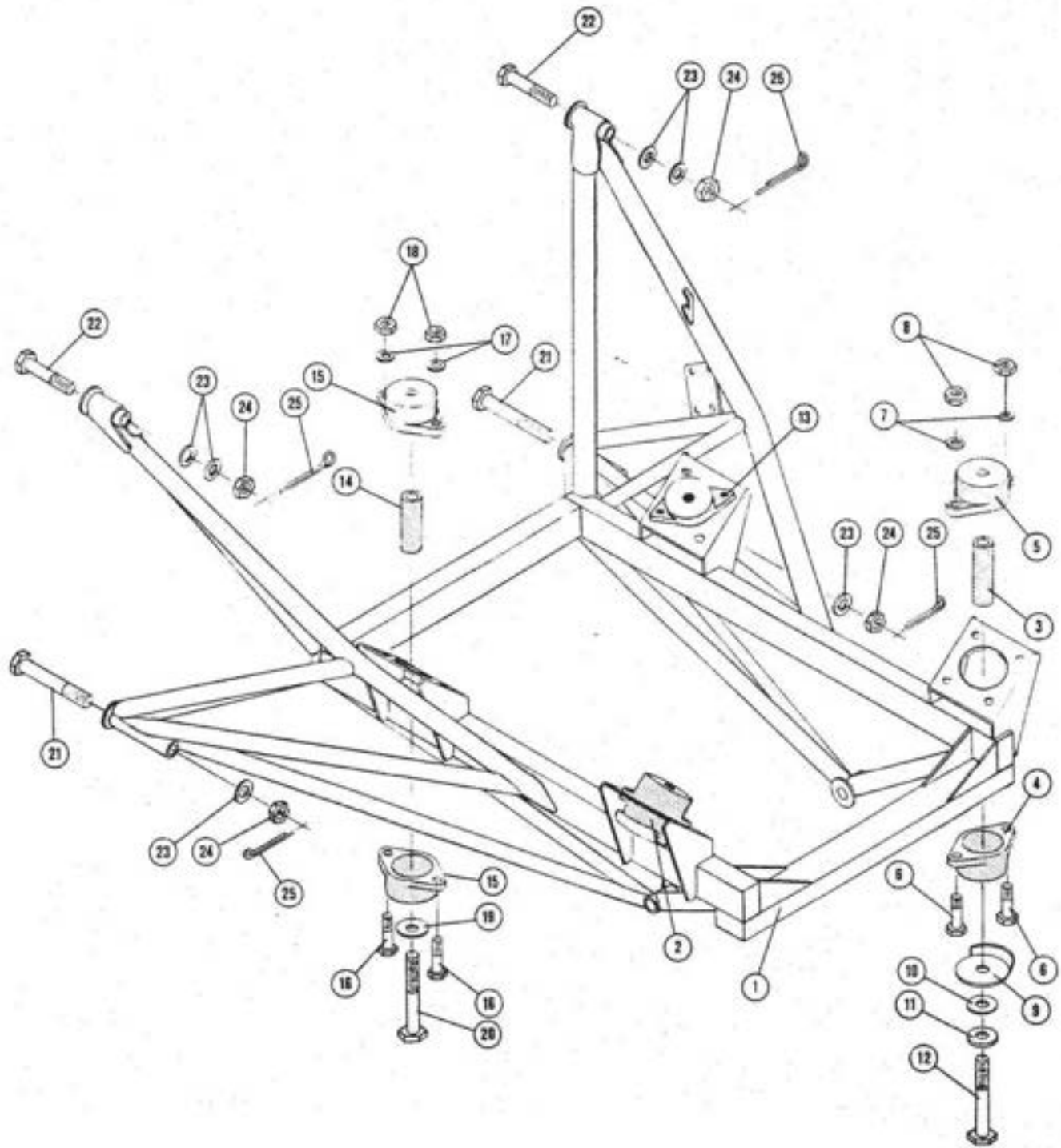


FIGURE 66.1 ENGINE MOUNT - MODEL 17-30A

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FIGURE AND INDEX N o .	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
65.4-		BOTTOM ENGINE COWL - MODEL 17-30A		D
	191336	Engine Cowl Installation	-	D
- 1	AN515-8-R8	Screw	2	
	AN515-8-RIO	Screw (Alternate For AN515-8-R8)	2	
- 2	AN515- -R12	Screw	2	
	191709	Bottom Cowl Assembly	1	
- 3	191708	Bottom Cowl	1	
- 4	AN366F832	Nut Plate	4	
- 5	191575	Rubber Strip	1	
- 6	191337-13	Rubber Strip	1	
- 7	191337-14	Rubber Strip	1	
- 8	MS20470-A5-8	Rivet	20	
- 9	AN960-8L	Washer	20	
-10	191709-1	Asbestos Strip	1	
-11	214-16D	Receptacle, Cam Loc	12	
-12	4002-G	Grommet, Cam Loc	6	
-13	4002-4	Stud, Cam Loc	6	
-14	R4G	Snap Ring, Cam Loc	6	
D-This installation used on aircraft with serial numbers 75-30727 through 75-30796.				

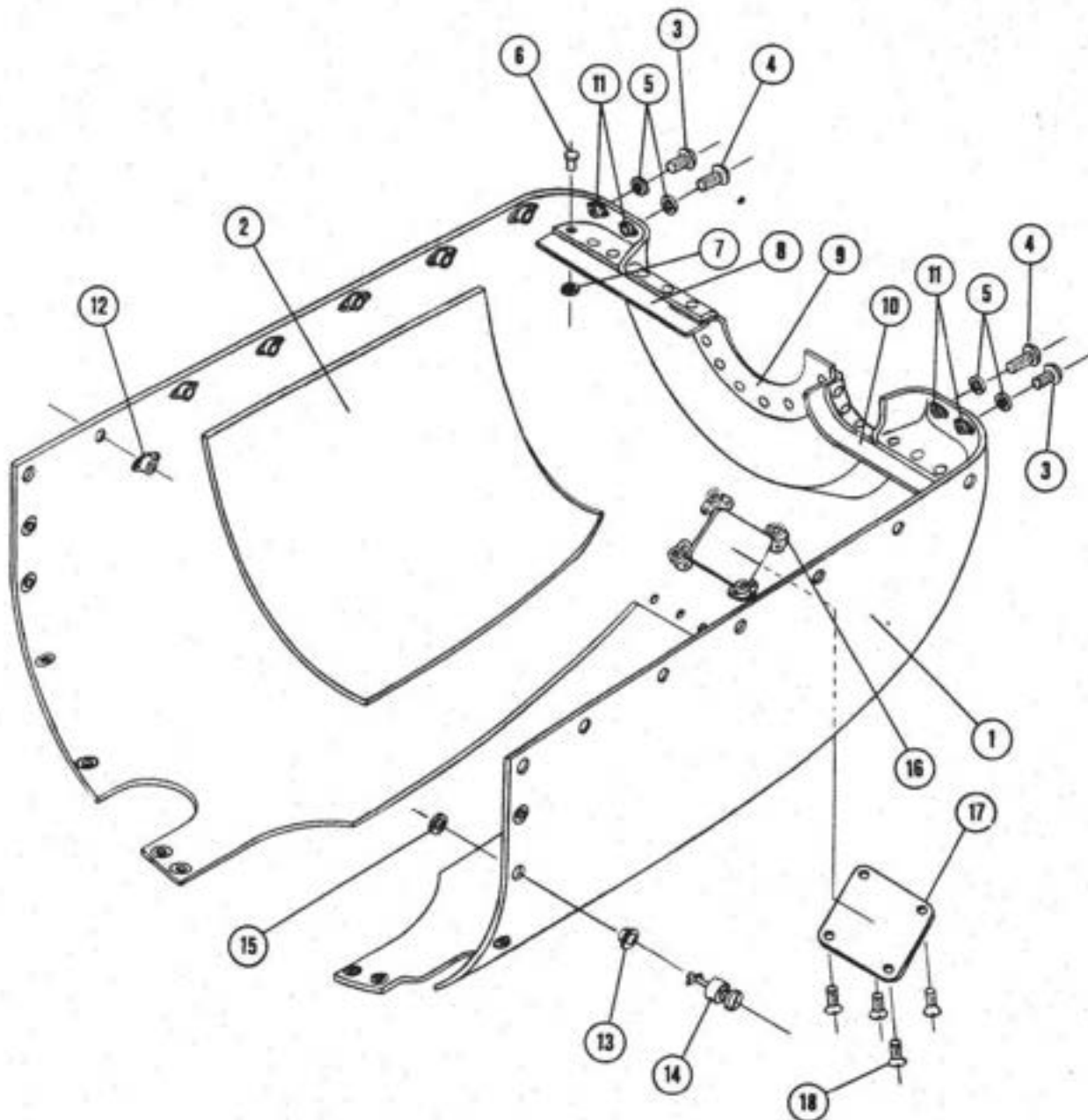




FIGURE AND INDEX	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
65.3-		BOTTOM ENGINE COWL - MODEL 17-30A		
	191336-40	Installation - Engine Cowl		A,D
	201016-0	Lower Cowl Assembly	1	A,D
- 1	20101570	Lower Cowl	1	A,D
- 2	201015-3	Asbestos	1	A
- 3	AN515-8-R	Screw	2	A
	AN515-8-RIO	Screw (Alternate For AN515-8-R8)	2	A
- 4	AN515- R12	Screw	2	A
- 5	AN960-8	Washer	4	A
- 6	MS20470 ⁷ A5-8	Rivet	19	A
- 7	AN960-8L	Washer	19	A
- 8	191337-13	Rubber Strip	1	A
- 9	191575	Rubber Strip	1	A
-10	191337-14	Rubber Strip	1	A
-11	MS21047-08	Nut Plate	4	A
-12	214-16	Receptacle, Cam Loc	6R/6L	A
	214-16D	Receptacle (Alternate For 214-16)	6R/6L	A
-13	4002-G	Grommet, Cam Loc	6R/6L	
-14	4002-3	Stud, Cam Loc	6R/6L	A
-15	R4G	Snap Ring, Cam Loc	6R/6L	A
-16	MS21081-08	Nut Plate	4	A
-17	201018-1	Cover, Access	1	A
-18	MS24693-S250	Screw	4	
D-Used on aircraft with Serial Number 76-30797 and up.				

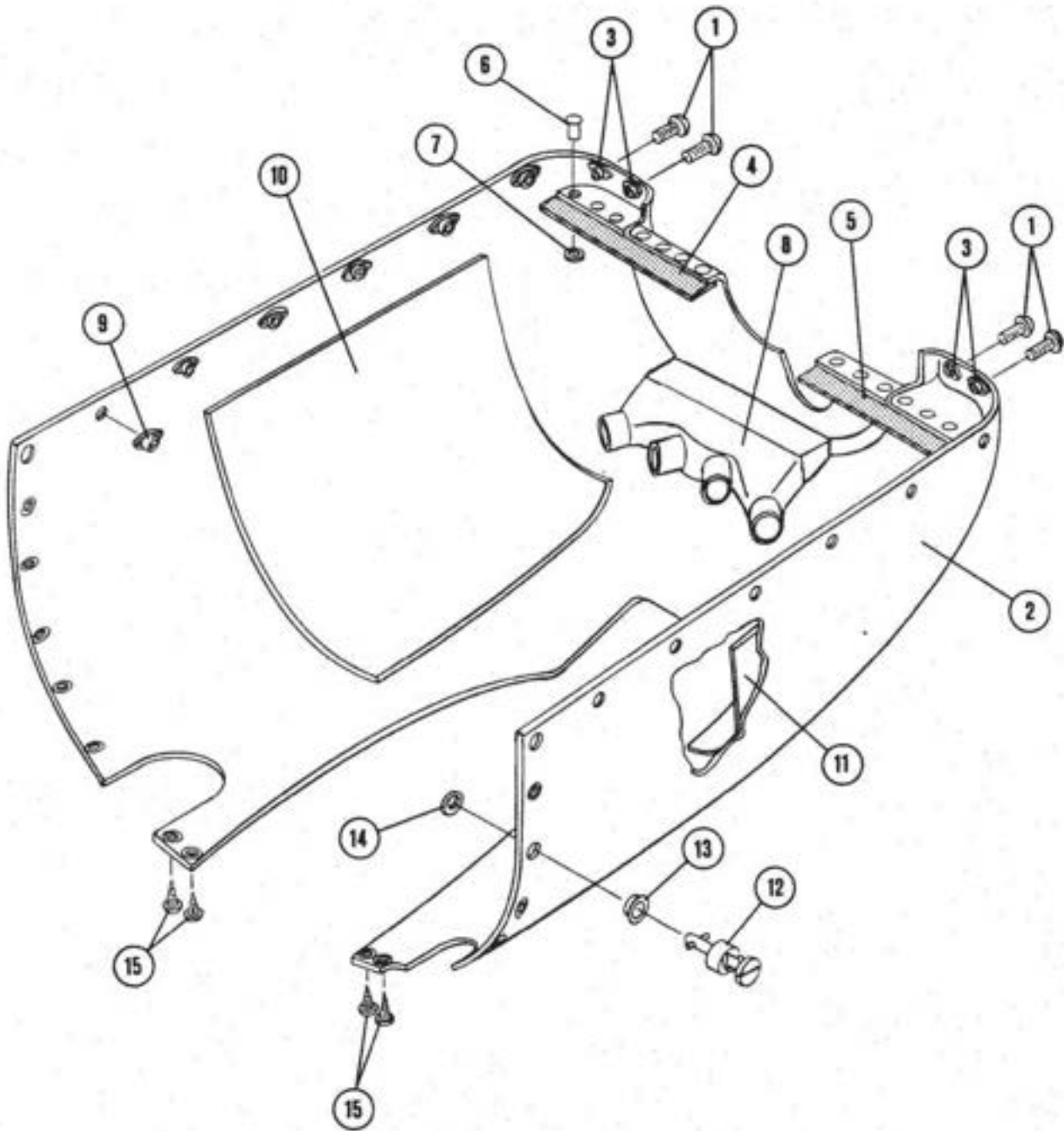


FIGURE 65.2 BOTTOM ENGINE COWL - MODELS 17-31A AND 17-31ATC



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
65.2-		BOTTOM ENGINE COWL-MODELS 17-31A AND 17-31ATC		
	201021-0	Engine Cowl Installation		B,D
	201021-10	Engine Cowl Installation		C,D
	191567-0	Engine Cowl Installation		B,E
	191567-10	Engine Cowl Installation		C,E
- 1	AN515-8-R12	Screw	4	B,C
	201020-0	Bottom Cowl Assembly	1	B,D
	201020-10	Bottom Cowl Assembly	1	C,D
	191559-0	Bottom Cowl Assembly	i	B,E
	191559-10	Bottom Cowl Assembly	1	C,E
- 2	201019-1	Bottom Cowl	1	B,C,D
	191533	Bottom Cowl	1	B,C,E
- 3	AN366F832	Nut Plate	4	B,C
- 4	191565	Rubber Strip	1	B,C
- 5	191566	Rubber Strip	1	B,C
- 6	AN442-A2-8	Rivet	14	B,C
- 7	AN960-8L	Washer	14	B,C
- 8	191965-0	Air Intake Duct	1	B,C
- 9	214-16D	Receptacle, Cam Loc	12	B,C
-10	201020-1	Asbestos Strip	1	B,C,D;
	191559-1	Asbestos Strip	1	B,C,E
-11	201020-2	Asbestos Strip	1	B,D
	191559-2	Asbestos Strip	1	B,E
CONTINUED ON PAG E				
D-This part or installation used on aircraft E-This part or installation used on aircraft with serial numbers 75-32-145 through 75-32-161 and 75-31108 through 75-31120.				



65.1-		TOP ENGINE COWL		
	191336-40	Engine Cowl Installation		A
	201021	Engine Cowl Installation		B,C
	191337-40	Top Cowl Assembly	1	A
	191569	Top Cowl Assembly	1	B,C
- 1	191337-25	Top	1	A
	191568	Top	1	B,C
- 2	191337-16	Door	1	
- 3	191337-24	Door	1	A
	191337-16	Door	1	B,C
4	H5000-2-081-188	Latch	4	
	AN380-2-2	Cotter Pin	4	D
- 5	191337-9	Hinge	2	
	191337-11	Spacer	2	D
- 6	4002-3	Stud, Cam	9	
- 7	4002-4	Stud, Cam Loc	10	
- 8	4002-5	Stud, Cam Loc	4	
- 9	4002-G	Grommet	23	
-10	R4G	Snap Ring	23	
	5100-50	Snap Ring (Alternate For R4G)	23	
D-This part not shown in the illustration.				

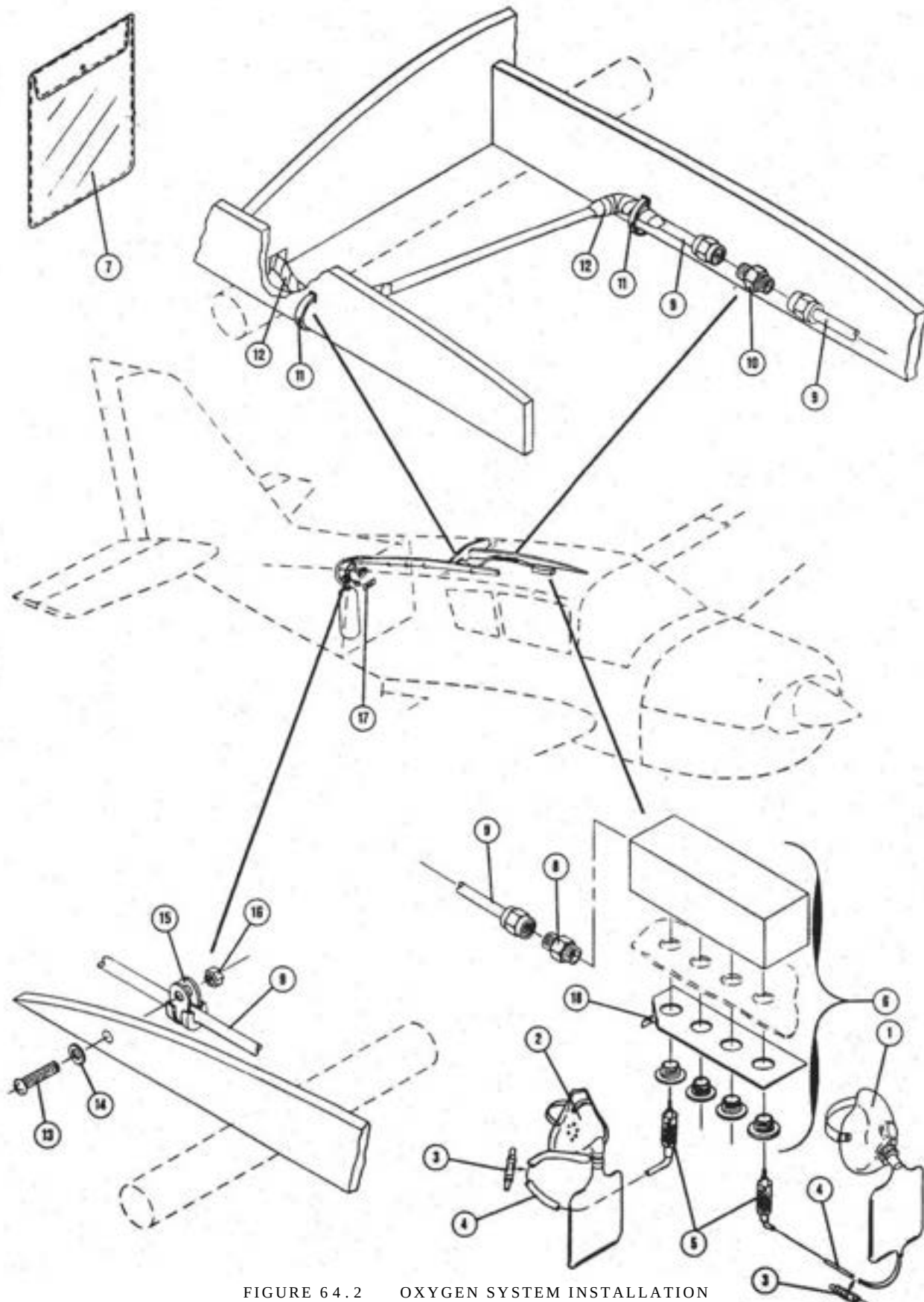


FIGURE 64.2 OXYGEN SYSTEM INSTALLATION

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
64.2		OXYGEN SYSTEM INSTALLATION		
	196995	Installation - Oxygen System		
- 1	SK24901	Sequential Breathing Mask	1	D
- 2	SK-5	Re-Breather Mask	3	D
	SK-6	Re-Breather Mask	4	E
- 3	2250	Flow Indicator	4	
- 4	TLW-2	Mask Tubing	4	
- 5	2757B	Quick Disconnect	4	
- 6	28498	Manifold (4 Block) Assembly	1	
- 7	S-1	Mask Stowage	4	
- 8	400-1-2	Manifold Fitting	1	
- 9	SK8201	Manifold Tubing	1	
-10	4U	Union	1	
-11	MS3367-1-9	Nylon 5trap	5	
-12	#33	Electrical	A/R	F
-13	AN520-10-14	Screw	1	
-14	AN950-10	Washer	1	
-15	M521919DF4	Clamp	1	
-16	MS20365-1032	Nut	1	
-17	197187-1	Placard (See Figure 99)	1	
	196829	Bracket	1	
	AN531-6R8	Screw	2	
-18	196842	Placard (See Figure 99)	1	
D - This part installed in TVSK-1001-4B-63, SK-1001-4BSM-48 and SK-1001-4BSM-63. E - This part installed in SK-1001-4B-48, SK-1001-4B-63 and SK-101-4B-48. F - Required at all points of contact.				

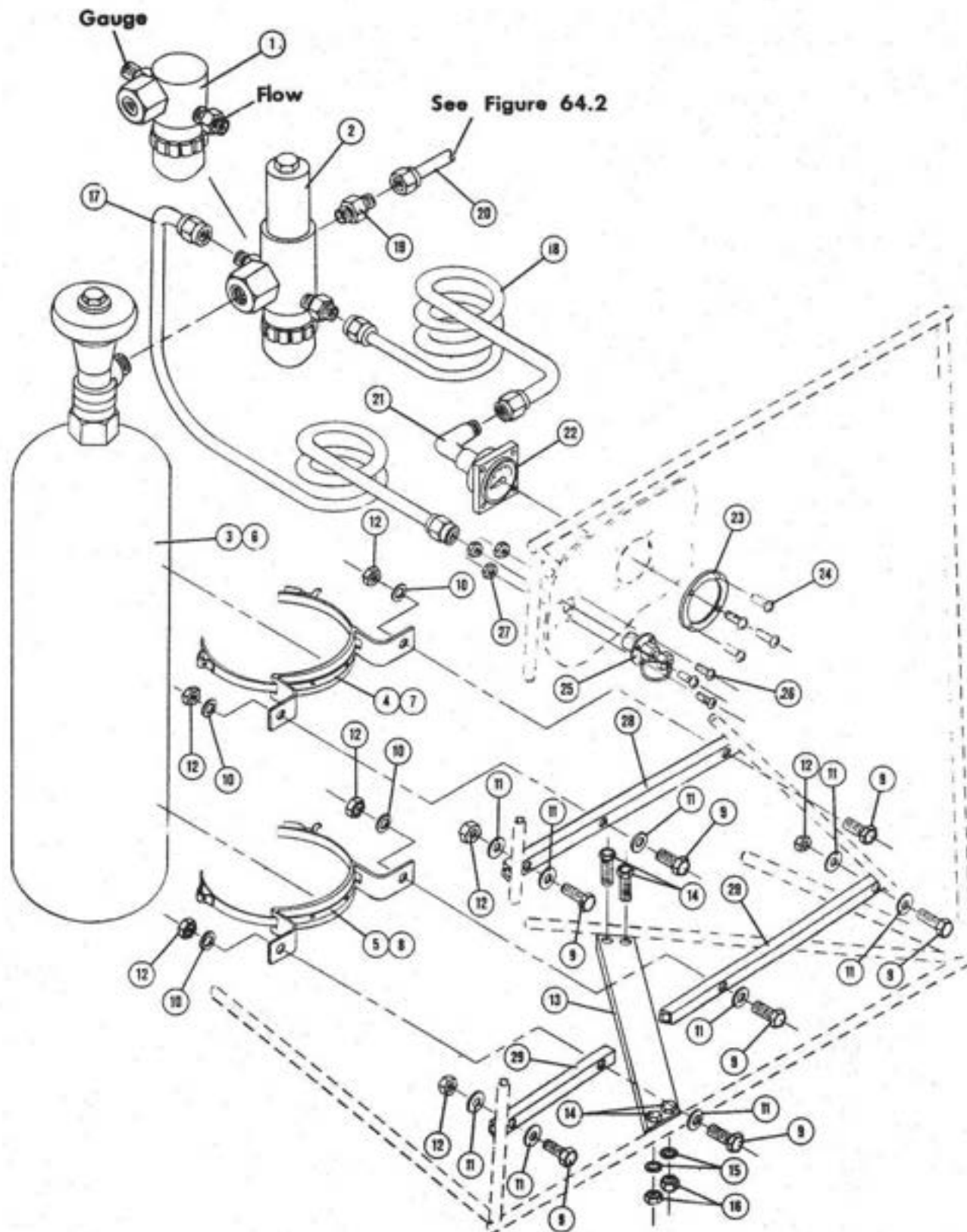


FIGURE 64.1 OXYGEN SYSTEM INSTALLATION



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
64.1-		OXYGEN SYSTEM INSTALLATION		
	196995	Installation - Oxygen System		
	TVSK-1001-4B-63	Oxygen Kit (Standard Equipment)	1	C
	SK-1001-4B-48	Oxygen Kit (Optional)	1	A,B
	SK-1001-4B-63	Oxygen Kit (Alternate For SK-1001-4B-48)	1	A,B
	SK-101-4B-48	Oxygen Kit (Alternate For SK-1001-4B-48)	1	A,B
	SK-1001-4BSM-48	Oxygen Kit (Alternate For SK-1001-4B-48)	1	A,B
	SK-1001-4BSM-63	Oxygen Kit (Alternate For SK-1001-4B-48)	1	A,B
- 1	28008	Regulator, Standard	1	A,B,D
- 2	2900B	Regulator, Altitude Compensator	1	E
- 3		Cylinder (Includes Two 12713 Clamps)	1	A,B,F
- 4	12713	Clamp, Upper (Used With SM-4-48)	1	A,B,F
- 5	196995-3	Clamp, Lower (Used With SKM-4-48)	1	A,B,F
- 6	SKM-4-63	Cylinder (Includes Two 13221	1	G
- 7	13221	Clamp, Upper (Used With SKM-4-63)	1	G
- 8	196995-4	Clamp, Lower (Used With SKM-4-63)	1	G
- 9	AN3-12A	Bolt	7	
-10	AN960-10L	Washer	4	
-11	AN960-10	Washer	9	
-12	MS20365-1032	Nut	7	
-13	U196994-1	Bracket	1	
		CONTINUED ON NEXT PAGE		
		D - This part installed in SK-101-4B-48. SK-1001-4B-48, SK-1001-4B-63, SK-1001-4BSM-48 and SK-1001-4BS -63.		
		F - This part installed in SK-1001-4 -48,SK- 101-4B-48 and SK-1001-4BSM-48. One 12713 clamp is reworked to part number 196995-3.		
		G - This part installed in TVSK-1001-4B-63, SK-1001-4B-63 and SK-1001-4BSM-63. One 13221 clamp is reworked to part number 196995-4.		

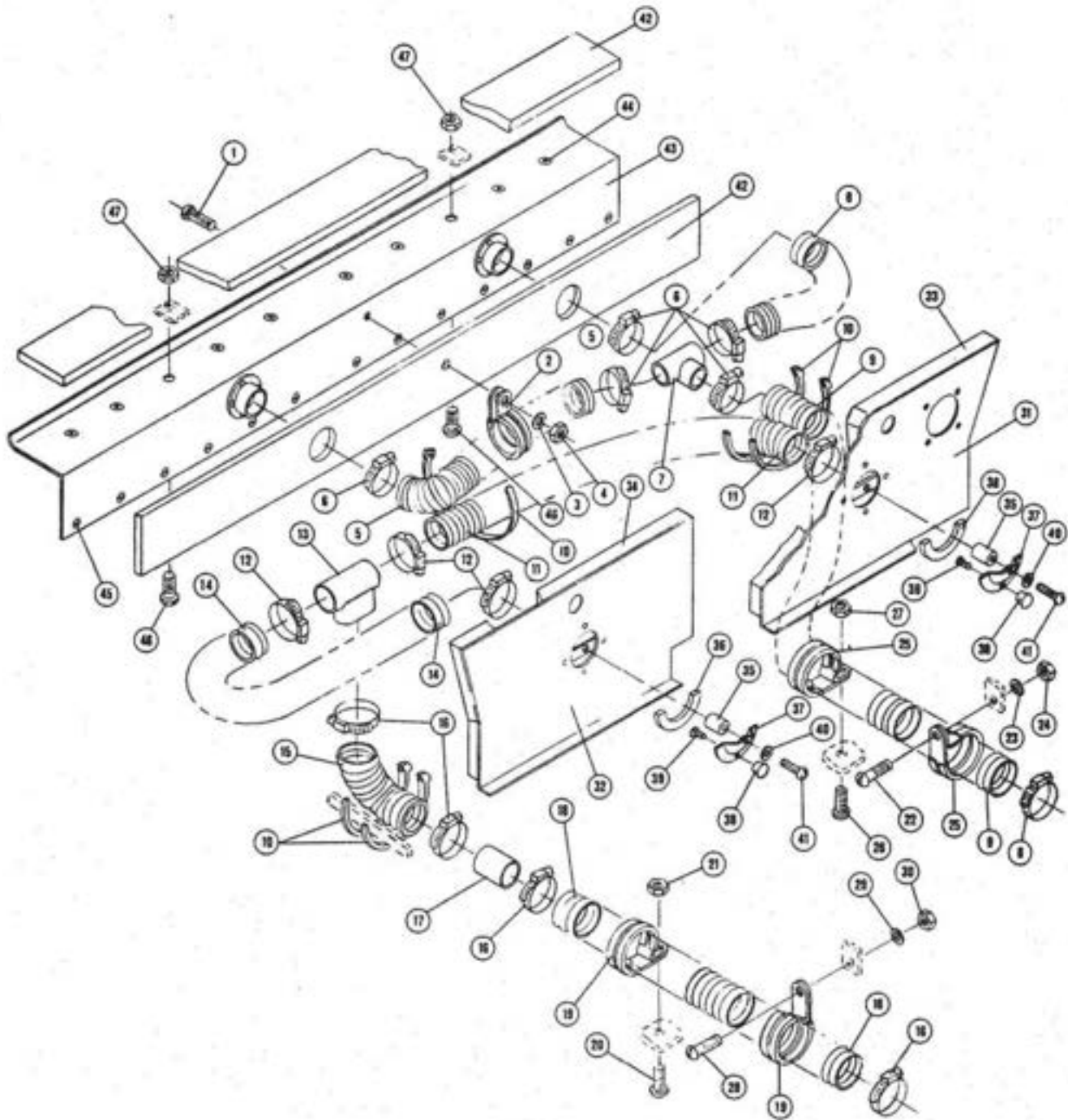


FIGURE 63.2 CABIN HEAT SYSTEM



63.2-

CABIN HEAT SYSTEM

206166

Cabin Heat -Installation

- 1	AN526-10R10	Screw	1
- 2	MS21919-DF26	Clamp	1
- 3	AN960-10	Washer	1
- 4	AN365-1032	Nut	1
- 5	198010-23	Flex Air Duct	1
- 6	QS200-M24S	Clamp	6
- 7	206160-0	Tee	1
- 8	198010-22	Flex Air Duct	1
- 9	198010-21	Flex Air Duct	1
-10	MS3367-2-9	Nylon Strap	5
-11	198003-67	Flex Air Duct	1
-12	QS200-M28S	Clamp	4
-13	206160-10	Tee	1
-14	198003-51	Flex Air	1
-15	198010-26	Flex Air Duct	1
-16	QS200-M40S	Clamp	4
-17	198008-161	Duct	1
-18	198003-52	Flex Air Duct	1
-19	MS21919-DF40	Clamp	2
-20	AN526-8R12	Screw	1
-21	AN365-832	Nut	1
-22	AN526-10R10	Screw	1
-23	AN960-10	Washer	1
-24	AN365-1032	Nut	1
-25	MS21919-DF26	Clamp	2
-26	AN526-8R12	Screw	1
-27	AN365-832	Nut	1

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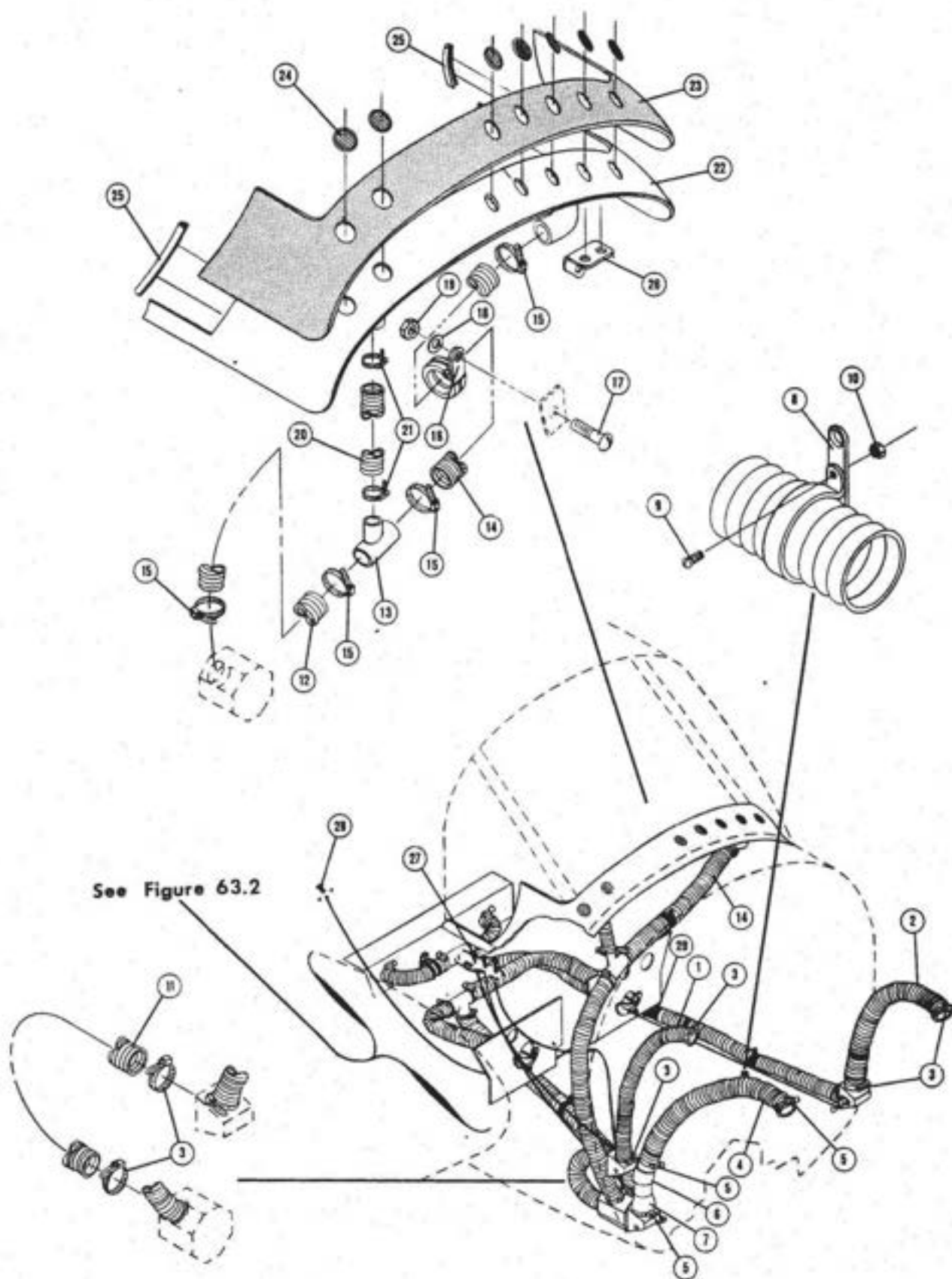


FIGURE 63.1 CABIN HEAT SYSTEM

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
63.1-		CABIN HEAT SYSTEM		
	206166	Cabin Heat - Installation		
	191705	Exhaust and Air Intake - Installation	-	A
	191748	Exhaust and Air Intake - Installation		B
	191987	Exhaust and Air Intake - Installation	-	C
- 1	198003-67	Flex Air Duct	1	A
	198010-35	Flex Air	1	B,C
- 2	198010-16	Flex Air Duct	1	A
	198010-34	Flex Air Duct	1	B
	198014-30	Flex Air Duct	1	C
- 3	QS200-M28S	Clamp	6	
- 4	198003-123	Flex Air Duct	1	A,B
	198014-70	Flex Air Duct	1	C
- 5	QS200-M40S	Clamp	2	A,B
	QS200-M40S	Clamp	3	C
	191987-1	Cover	1	C
- 7	191882	Tube	1	C
- 8	201022	Clamp	1	C
- 9	MS35207-263	Screw	1	C
-10	MS20365-1032	Nut	1	C
-11	198003-51	Flex Air Duct	1	
-12	198010-37	Flex Air Duct	1	
-13	191895-10	Y Tube	1	
-14	198010-66	Flex Air Duct	1	
-15	QS200M-24S	Clamp	4	
CONTINUED ON NEXT PAGE				



FIGURE AND No.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
62.4-		CABIN EXHAUST SYSTEM-AFT INSPECTION COVER		
	206149-40	Inspection Cover Assembly (Lower Aft)		D
- 1	U206208-2	Cover	1	D
- 2	206149-0	Adaptor Assembly1	1	
- 3	206141-1	Louver	1	
- 4	206276-1	Brace	1	D
- 5	U206266-1	Stiffener	1	
- 6	U206266-2	Stiffener	1	
- 7	206278-1	Brace	1	D
- 8	206277-1	Shim	1	D
- 9	U206279-1	Plate	1	D
	206211	Installation-Inspection Cover (Lower Aft).	-	
-10	193109	Cover	1	
-11	206198-1	Plate	1	
-12	No. 8 x 1/2	Screw	2	
-13	A1778-8Z-1	Nut, Tinnerman	2	
-14	AN526-1R12	Screw	11	
	AN526-10-12	Screw (Alternate For AN526-10R12)	11	
-15	MS21078-3	Nut Plate	11	
-16	206210-1	Retainer	1	
-17	206209-1	Retainer	1	
-18	No. 4 x 3/8	Screw (P.K.)	8	
D-This part or assembly is used on aircraft with serial numbers 76-30807 and up, 76-32-163 and up and 76-31123 and up. The 206149-30 assembly may be used as an alternate depending on the location of the loop antenna.				



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
62.3-					
-17	206138-1	Panel	1		
-18	206137-0	Adaptor Assembly	1		
-19	196608-107	Insulation Foam	1		
	206149	Cabin Exhaust Assembly	-		
	206149-30	Cover Assembly	1		
-20	206208-1	Cover (See Figure 62.4)	1	F	
-21	206141-1	Louver	1		
	206149-0	Adaptor Assembly	1		
-22	U206139-2	Rear Plate	1	G	
-23	U206139-1	Front Plate	1	G	
	206140-1	Tube	1		
-24	U206266-2	Stiffener	1		
-25	U206266-1	Stiffener	1		
	206211	Installation - Inspection Cover (Lower Aft)	-		
-26	193109	Cover	1		
-27	206198-1	Plate	1		
-28	No. 8 x 1/2	Screw	2		
-29	A1778-8Z-1	Nut, Tinnerman	2		
-30	AN526-10R12	Screw	11		
	526-10-12	Screw (Alternate For AN526-10R12)	11		
-31	MS21078-3	Nut Plate	11		
-32	206210-1	Retainer	1		
-33	206209-1	Retainer	1		
-34	No. 4 x 3/8	Screw (P.K.)	8		
		F-This part used on aircraft with serial numbers 75-30727 through 76-30806, 75-32-145 through 76-32-162 and 75-31108 through 76-31122.			



62.3

CABIN EXHAUST SYSTEM

206151

Installation - Cabin Exhaust

- 1	198010-28	Flex Hose	1	
- 2	QS200-M36S	Clamp	6	
- 3	148008-161	Metal Line	1	
- 4	198010-19	Flex Hose	1	
- 5	AN520-10R1	Screw	1	
	AN520-104	Screw	1	D
- 6	MS21919-DF40	Clamp	1	
- 7	AN960-10L	Washer	2	
	AN960-10L	Washer	1	D
	AN970-3	Washer	1	D
- 8	MS20365-1032	Nut	1	
- 9	198008-159	Metal Line	1	
-10	MS21919-DF40	Clamp	3	
-11	AN520-10-10	Screw	3	
-12	AN960-10	Washer	6	
-13	MS20365-1032	Nut	3	
-14	19801018	Flex Hose	1	
	196608-280	Upholstery Assembly - Exhaust Panel	1	
-15	196608-96	Cloth	1	E
-16	196608-162	Foam	1	
	206138-0	Panel Assembly	1	

CONTINUED ON NEXT
PAGE

D-This part installed only with the Avionics
Power Supply Board 197151.

E-When ordering this interior upholstery, the
color and material must be specified or
the aircraft serial number noted.

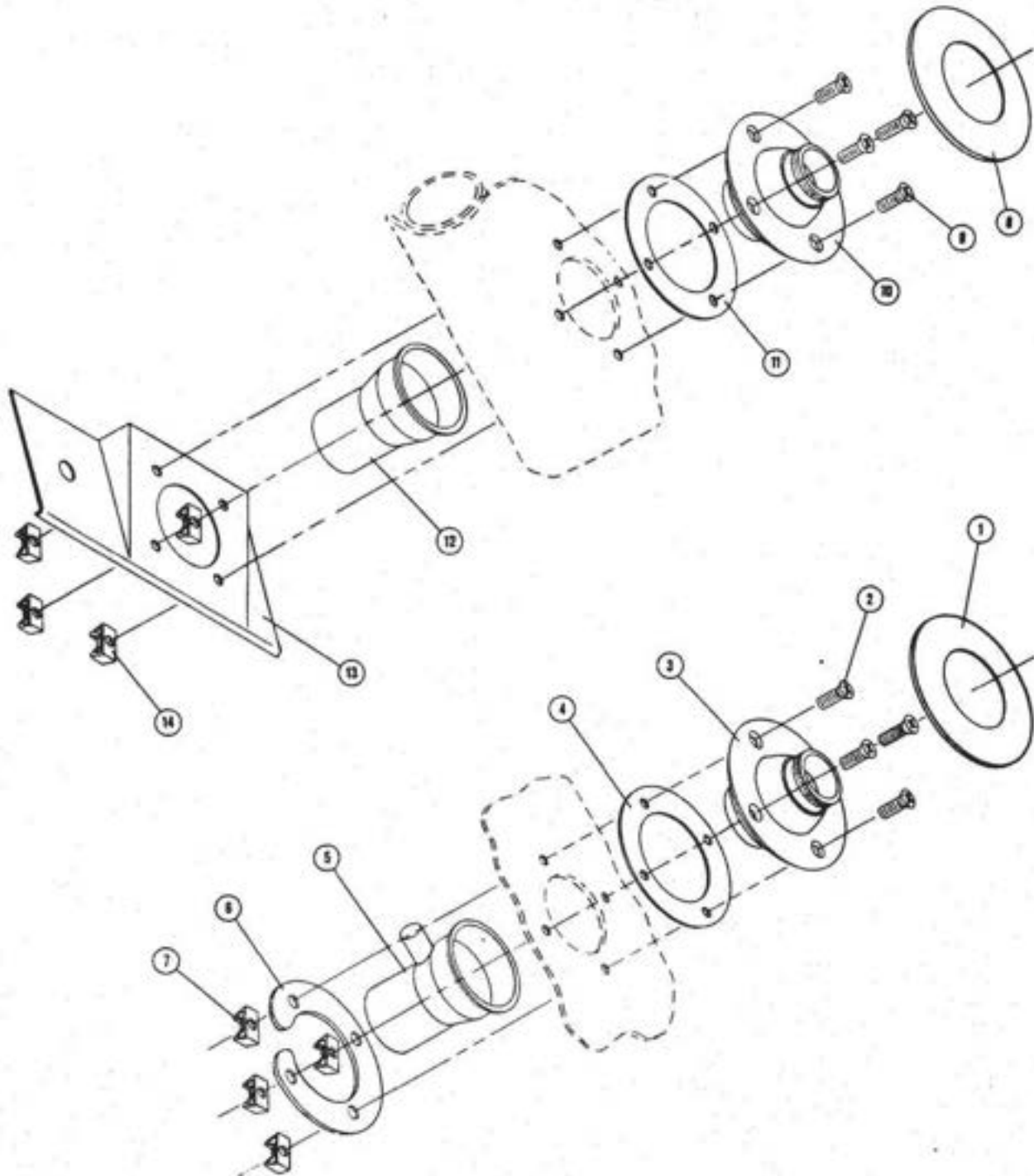


FIGURE 62.2 AIR VENT ASSEMBLY



FIGURE AND INDEX O.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
62.2-		AIR VENT ASSEMBLY		
	196585	Installation - Fresh Air System		
	196585-110	Air Vent Assembly		D,E
	196585-120	Air Vent Assembly	-	F
- 1	7194	Cover	1	
-2	AN507-6R8	Screw	4	
3	1755-501	Valve, Vent	1	
- 4	196585-21	Gasket	1	
- 5	196585-100	Adaptor	1	G
	198012-6	Adaptor	1	H
- 6	206065-1	Ring	1	
- 7	A8938-632-24J	Nut, Tinnerman	4	
	196585-90	Air Vent Assembly	—	
- 8	7194	Cover	1	
- 9	AN507-6R8	Screw	4	
-10	1755-501	Valve, Vent	1	
-11	196585-21	Gasket	1	
-12	198012-6	Adaptor	1	
-13	196859	Plate	1	
-14	A8938-632-24A	Nut, Tinnerman	4	
D-This part optional on both sides for all aircraft with serial numbers 75-30727 through 75-30796. 75-32-145 through 75-32-161 and 75-31108 through 75-31120. E-This part standard on right side and optional on left side for all aircraft with serial numbers 76-30797 and up, 76-32-162 and up and 76-31121 and up. F-This part optional on right and left side for all aircraft. G-This part installed in 196585-110 assembly only. H-This part installed in 196585-120 assembly only.				



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
62.1-		CAIN FRESH AIR SYSTEM		
	196585	Fresh Air System - Installation	1	
- 1	196585-18	Flex Hose	1R/1L	
2	196585-17	Flex Hose	1R	
- 3	198010-46	Flex Hose	1L	
- 4	737- -58	Clamp	4R/ 4L	
- 5	535489-27	Grommet	1R/1L	
- 6	196585-90	Air Vent Assembly (See Figure 62.2)	1R/1L	
- 7	196585-110	Air Vent Assembly (See Figure 62.2)	1R/1L	D,E
	196585-120	Air Vent Assembly (See Figure 62.2)	1R/1L	F
- 8	53367-2-9	Nylon Strap	6R/8L	
	192532	Fresh Air Intake Installation (Wing)	-	
	192517	Fresh Air Intake Assembly	1	
- 9	192517-10	Manifold Assembly	1	G
-10	No. 6 x 3/8	Screw, Wood	6	G
-11	192517-3	Screen	1	G
-12	192517-4	Cover	1	G
-13	531-6-10	Screw	6	G
-14	A1776-6Z-1	Nut, Tinnerman	6	G
D-This part optional on both sides for all aircraft with serial numbers 75-30727 through 75-30796. 75-32-145 through 75-32-161 and 75-31108 through 75-31120. E-This part standard on right side and optional on left side for all aircraft with serial numbers 76-30797 and up, 76-32-162 and up, and 76-31121 and up. F-This part optional on right and left side for all aircraft. G-Left side shown, right side typical.				



61.2-					
-25	AN910-10	C o u p l i n g	1		
-26	B-101	Check Valve	1		
-27	AN914-1D	Elbow	4		
-28	AN918-1D	Cross	1		
-29	195602	Nipple	1		
-30	AN816-4D	Nipple	1		
-31	195673-1	Bracket	1		
-32	195675-0	Shuttle Valve Assembly	1		
-33	195675-1	Placard	1		
-34	AN3-13A	Bolt	2		
-35	AN960-10L	Washer	2		
-36	MS20365-1032	Nut	2		
-37	MS20822-4D	Elbow	2		
-38	198008-175	Metal Line	1	D	
	AN818-4D	Nut	2		
	AN819-4D	SleeVe	2		
-39	198008-174	Metal Line	1	D	
	AN818-4D	Nut	2		
	AN819-4D	Sleeve	2		
-40	AN911-1D	Nipple	3		
-41	AN918-1D	Cross	1		
-42	195630	Union	1		
-43	AN6227-B7	"0" Ring	1		
-44	194375	Pressure Switch	1		
-45	AN816-4D	Nipple	1		
-46	AN917-1D	Tee			
CONTINUED ON NEXT PAGE					
D - This part sold as a unit with the nuts and sleeves assembled.					



61 2-				
-47	MS20823-4D	E 1 b O W	1	D
-48	AN826-3D	Tee	1	
-49	198008-150	Metal	1	
	AN818-3D	Nut	2	D
	AN819-3D	Sleeve	2	
-50	198008-151	Metal	1	
	AN818-3D	Nut	2	
	AN819-3D		2	
-51	MS20822-3D	E I b O W	1	
-52	AN912-1D	Bushing	1	
-53	A1146-200	Accumulator	1	
-54	MS21919-DF14	Clamp	1	
-55	AN520-10R10	SCreW	1	
-56	MS20365-1032	Nut	1	
-57	U195648-1	Bracket	1	
-58	AN4-4A	Bolt	2	
-59	AN960-416L	Washer	2	
-60	195640-1	Tube	1	
-61	195640-0	Stick	1	

D - This part sold as a unit with the nuts and sleeves assembled.



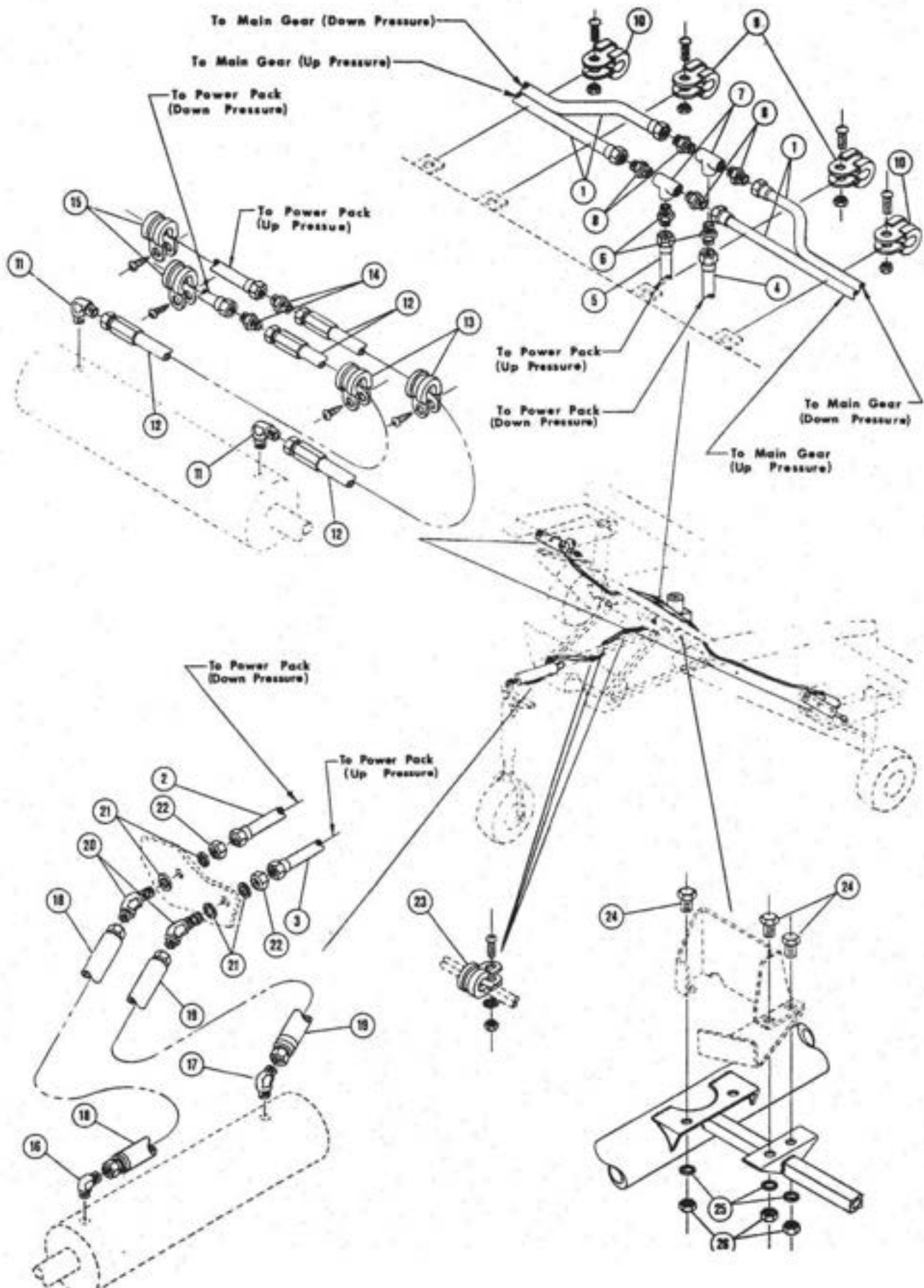
FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
61.2-		POWER PAK AND HYDRAULIC SYSTEM		
- 1	195672	Power Pak Assembly		
- 2	195633	Hydraulic Pump - Power Pak	1	
- 3	195692-0	Valve Assembly	1	
- 4	195690-1	Spring	1	
- 5	MS24665-283	Cotter	1	
- 6	195691-1	Placard	1	
- 7	3591-4CN-625	Insert	2	
- 8	195689-1	Lever	1	
- 9	AN526-6R8	Screw	2	
- 10	AN960-6	Washer	2	
- 11	MS20365-632	Nut	2	
- 12	AN816-3D	Nipple	1	
- 13	MS20823-3D	Elbow	1	
- 14	195589	Bracket	1	
- 15	195629	Clip	1	
- 16	AN6-5A	Bolt	3	
- 17	AN960-616	Washer	3	
- 18	AN520-4-12	Screw	2	
- 19	AN960-416	Washer	2	
- 20	195594-1	Adaptor Body	1	
- 21	AN48-11A	Bolt	4	
- 22	AN960-416	Washer	4	
- 23	MS20822-4D	Washer	3	
- 24	198008-173	Metal Line	1	D
	AN818-3D	Nut	2	
	AN819-3D	Sleeve	2	
	AN816-3D	Nipple	1	
		CONTINUED ON NEXT PAGE		
		D - This part sold as a unit with the nuts and sleeves assembled.		

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
61.1-				
-12	198003-7	Hose	4	
-13	MS21919-DF10	Clamp	4	
	#8 x 3/4	Pan Head Screw	4	
-14	AN815-30	Nipple	4	
-15	MS21919-DF3	Clamp	4	
	#8 x 3/4	Screw	4	
-16	AN822-4D	Elbow 90°	1	
-17	AN823-4D	Elbow 45°	1	
-18	198003-63	Hose	1	
-19	198003-168	Hose	1	
-20	AN837-4	Elbow 45°	2	
-21	AN960-716L	Washer	4	
-22	AN924-4D	Nut	2	
-23	MS21919-DF7	Clamp	3	
	AN960-10	Washer	3	
	MS20365-1032	Nut	3	
	AN520-10R10	Screw	3	
-24	AN4-5A	Bolt	3	
-25	AN960-416	Washer	3	
-26	MS20365-428	Nut	3	



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
61.1-		HYDRAULIC POWER PAK INSTALLATION		
	195674	Installation - Hydraulic Power P a k		
- 1	198008-61	Metal Line		
	AN818-3D	Nut	8	
	AN819-3D	Sleeve	8	
- 2	198008-154	Metal Line	1	D
	AN818-4D	Nut	2	
	AN819-4D	Sleeve	2	
- 3	198008-133	Metal Line	1	D
	AN818-4D	Nut	2	
	AN819-4D	Sleeve	2	
- 4	198008-155	Metal Line	1	D
	AN818-4D	Nut	2	
	AN819-4D	Sleeve	2	
- 5	198008-156	Metal Line	1	D
	AN818-4D	Nut	2	
	AN819-4D	Sleeve	2	
- 6	AN816-4D	Nipple	2	
- 7	AN917-1D	Tee	2	
- 8	AN816-3D	Nipple	4	
	MS21919-DF7	Clamp	2	
	MS20365-1032	Nut	2	
	AN520-IOR8	Screw	2	
-10	MS21919-DF5	Clamp	2	
	MS20365-1032	Nut	2	
	AN520-10R8	Screw	2	
-11	AN822-3D	Elbow 90°	4	
CONTINUED ON NEXT PAGE				
D - This part sold as a unit with the nuts and sleeves assembled.				



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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
60-		CYLINDER ASSEMBLY - MAIN GEAR		
	195551	Cylinder Assembly	-	
- 1	5000-125	Ring, Retaining	2	
- 2	195548-1	Plug, Pivot	1	
- 3	198004-125	Bushing	1	
- 4	AN6227B-19	O - Ring	3	
- 5	195545-3	Barrel	1	
- 6	195318	Lock Cap	1	
- 7	8-214	Back-Up Ring	1	
- 8	195547	Piston	1	
- 9	8-012	Back-Up Ring	1	
-10	AN6227B-7	"O" Ring	1	
-11	195320	Lock Ring	2	
-12	195544-1	Shaft	1	
-13	195546	Plug, End	1	
-14	AN6227B-10	O - Ring	1	
-15	8-112	Back-Up Ring	1	
-16	NAS-509-6	Check Nut	1	
-17	195529	Clevis	1	
-18	198004-126	Bushing	1	

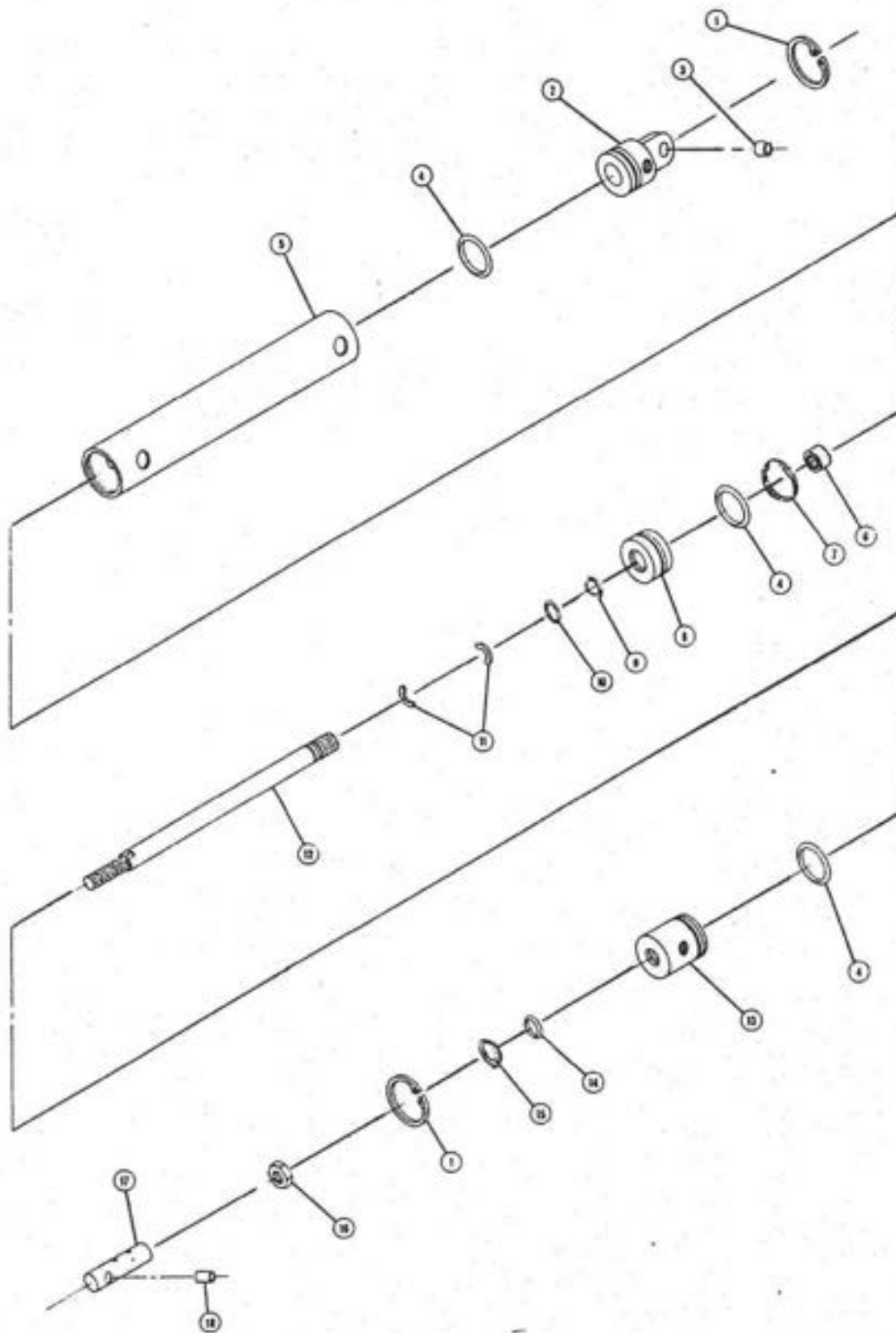


FIGURE 60. CYLINDER ASSEMBLY - MAIN GEAR

FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
59-				
-25	194368	Bushing	1	
-26	194369	Fitting - Lubricator	1	
-27	19469-10	Axle - Main Gear	1	
-28	AN4-22A	Bolt	1	
-29	AN960-416	Washer	A/R	
-30	AN365-428	Nut	1	
-31	AN4-24A	Bolt	1	
-32	AN960-416	Washer	A/R	
-33	AN365-428	Nut	1	



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
59-		AI N GEAR ASSEMBLY		
	194272- 30	Main Gear Assembly - L/H	1 L/H	
	194272- 40	Main Gear Assembly - R/H	1 R/H	
- 1	194280- 30	Upper Leg - Main Gear L/H	1 L/H	
	194280- 40	Inner Leg - Main Gear R/H	R/H	
- 2	19438- 1	Bushing	2	
- 3	400L	Fitting Lubricator	1	
- 4	146BA6	Air Valve	1	
5	194368	Bushing	1	
- 6	100836	Fitting Lubricator	1	
- 7	198004- 127	Bushing	1	
- 8	194379	Bushing	1	
- 9	198004- 5	Bushing	1	
- 10	AN6230- 4	"O" Ring	1	
- 11	194271	Bushing	1	
- 12	AN6227- 31	"O" Ring	1	
- 13	194151- 3	Seal - Wiper	1	
- 14	19442- 1	Retainer	1	
- 15	19442- 2	Retainer	A/R	
- 16	3000- 225	Ring - Retaining	1	
- 17	19402- 2	Spring	1	
- 18	19445	Actuator - Spring	1	
- 19	194377- 0	Piston Assembly	1	
- 20	901854	Ring - Piston	1	
- 21	AN6227- 7	"O" Ring	1	
- 22	AN960- 716	Washer	1	
- 23	MS20364- 720	Nut	1	
- 24	194308 L/H	Lower Leg - Main Gear, L/H	1 L/H	
	194308 R/H	Lower Leg - Main Gear, R/H	1 R/H	
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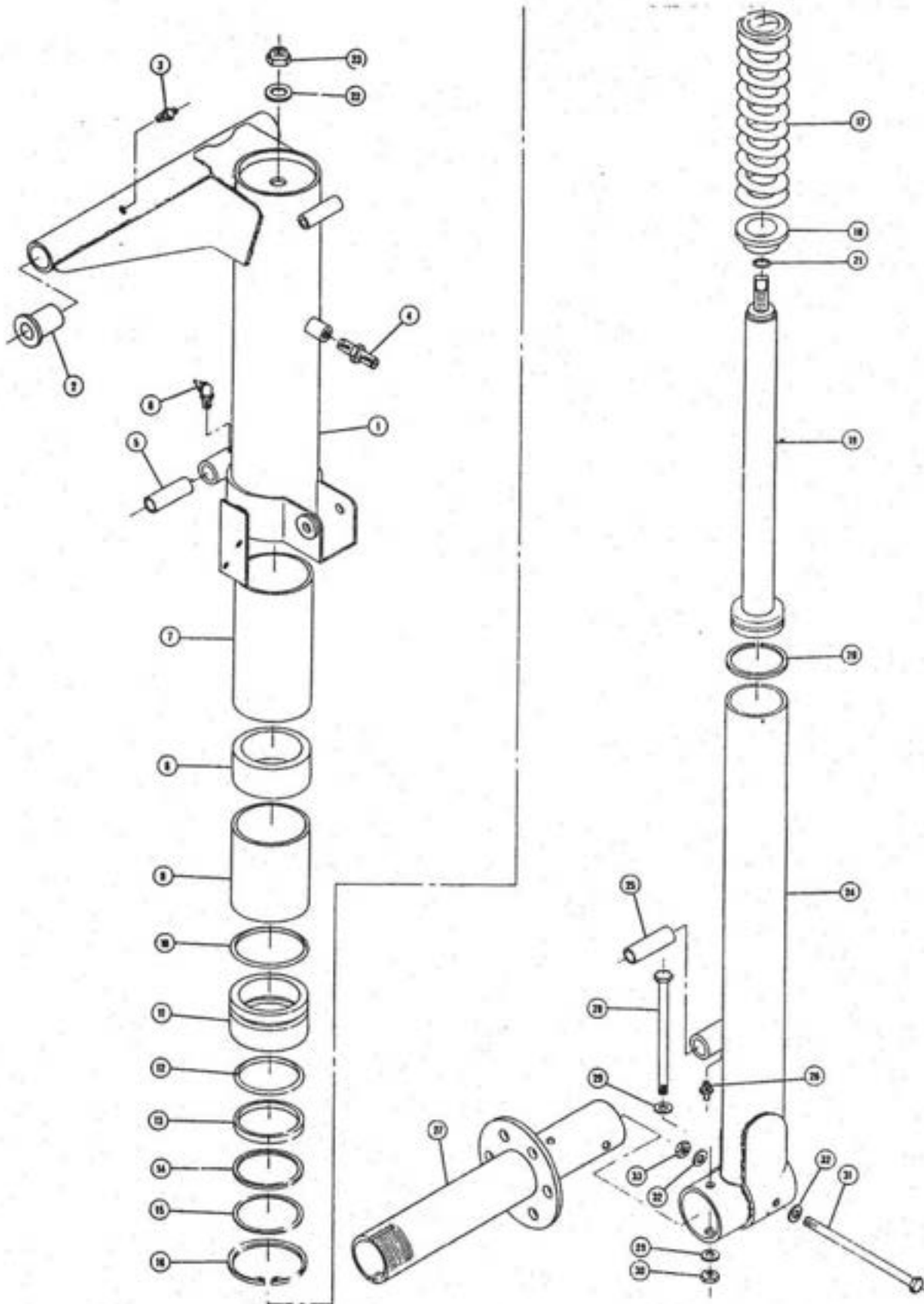


FIGURE 59. MAIN GEAR ASSEMBLY

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FIGURE AND INDEX NO	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
58.3-					
-74	MS24665-134	Cotter Pin	1		
-75	AN4-32A	Bolt	1		
-76	AN960-416	Washer	1		
-77	AN960-416L	Washer	2		
-78	MS20365-428	Nut	1		
-79	1EN1-6	Switch, Down Limit	1		
-80	194398-0	Down Lock Solenoid	1		
-81	195551	Cylinder Assembly	1		
-82	AN4-7A	Bolt	1		
-83	AN960-416	Washer	1		
-84	S20365-428	Nut	1		
-85	AN3-10A	Bolt	1		
-86	AN960-10	Washer1	1		
-87	520365-1032	Nut	1		
-88	194372	Placard	1		
-89	196880	Placard	1		



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
58.3-				
-50	MS20392-IC15	Pin - Clevis	1	
-51	AN960-10L	Washer	1	
-52	MS24665-132	Cotter Pin	1	
-53	BZ-2RS55	Squat Switch	1	D
-54	AN515-6820	Screw	2	D
-55	AN960-6	Washer	4	D
-56	MS20365-632	Nut	2	
-57	194403-10	Drag Strut, Lower, L/H	1 L	
	194403-20	Drag Strut, Lower, R/H	1	
-58	198004-48	Bushing	1	
-59	198004-50	Bushing	1	
-60	AN5-20	Bolt	1	
-61	AN960-516	Washer	2	
-62	AN310-5	Nut	1	
-63	MS24665-134	Cotter Pin	1	
-64	194403-30	Drag Strut, Upper, L/H	1 L	
	194403-40	Drag Strut, Upper, R/H	1 R	
-65	AN5-21	Bolt	1	
-66	AN960-516	Washer	A/R	
	AN960-516L	Washer	A/R	
-67	AN310-5	Nut	1	
-68	MS24665-134	Cotter Pin	1	
-69	194399-30	Extension Assembly, L/H	1 L	
	194399-40	Extension Assembly, R/H	1 R	
-70	198004-107	Bushing	1	
-71	AN5-26	Bolt	1	
-72	AN960-516	Washer	A/R	
-73	AN310-5	Nut	1	
		CONTINUED ON Next Page		
		D-Right Hand Only.		



58.3-						
-23	194298	Bolt	1	D		
-24	194289-2	Pulley	1			
-25	198004-90	Bushing	1			
-26	AN6-34	Bolt	1			
-27	AN960-616	Washer	A/R			
-28	AN310-6	Nut	1			
-29	MS24665-283	Cotter Pin	1			
-30	194289-1	Pulley	1			
-31	198004-96	Bushing	1			
-32	AN5-33A	Bolt	1			
-33	AN960-516	Washer	A/R			
-34	AN365-524	N u t	1			
-35	194088	Clamp	1			
-36	19404-3	Bolt	1			
-37	AN960-616	Washer	A/R			
-38	AN310-6	Nut	1			
-39	MS24665-283	Cotter Pin	1			
-40	194332	Bracket	1			
-41	198004-92	Bushing	1			
-42	AN6-32	Bolt	1			
-43	AN960-616	Washer	A/R			
-44	AN310-6	Nut	1			
-45	MS24665-283	Cotter Pin	1			
-46	MS20392-1C15	Pin - Clevis	1			
-47	AN960-10	Washer	2			
-48	MS24665-132	Cotter Pin	1			
-49	194296	Cable	1			
Continued On Next Page						
D-Right hand only.						



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
58.3-		MAIN LANDING GEAR INSTALLATION		
	194404-10	Main Landing Gear Installation - L/H	-	
	194404-20	Main Landing Gear Installation - R/H	-	
- 1	194272-30	Main Gear Assembly - L/H	1	
	194272-40	Main Gear Assembly - R/H	1	
- 2	19404-2	Bolt	1	
- 3	AN960-716L	Washer	2	
- 4	AN310-7	Nut	2	
- 5	MS24665-283	Cotter Pin	2	
- 6	B-30-52	Brake Assembly	1	
- 7	AN6-7A	Bolt	6	
- 8	AN960-616	Washer	12	
	AN960-616L	Washer	6	
- 9	MS20365-624	Nut	6	
-10	19437I	Spacer	1	
-11	-----	Tire-15 x 6.00-6, Type III 6 or 8 Ply	1	
-12	-----	Tube - 15 x 6.00-6	1	
-13	40-75E	Wheel Assembly-	1	
-14	19469-4	Nut	1	
-15	MS24665-360	Cotter Pin	1	
-16	194169	Hub Cap	1	
-17	AN515-8-6	Screw	3	
-18	MS35338-42	Washer	3	
-19	194345-10	Nutcracker Assembly, R/H	1 R	
	194345-20	Nutcracker Assembly, L/H	1 L	
-20	194287	Nutcracker Assembly, Lower	1	
-21	198004-60	Bushing	2	
-22	198004-61	Bushing	4	
Continued On Next Page				

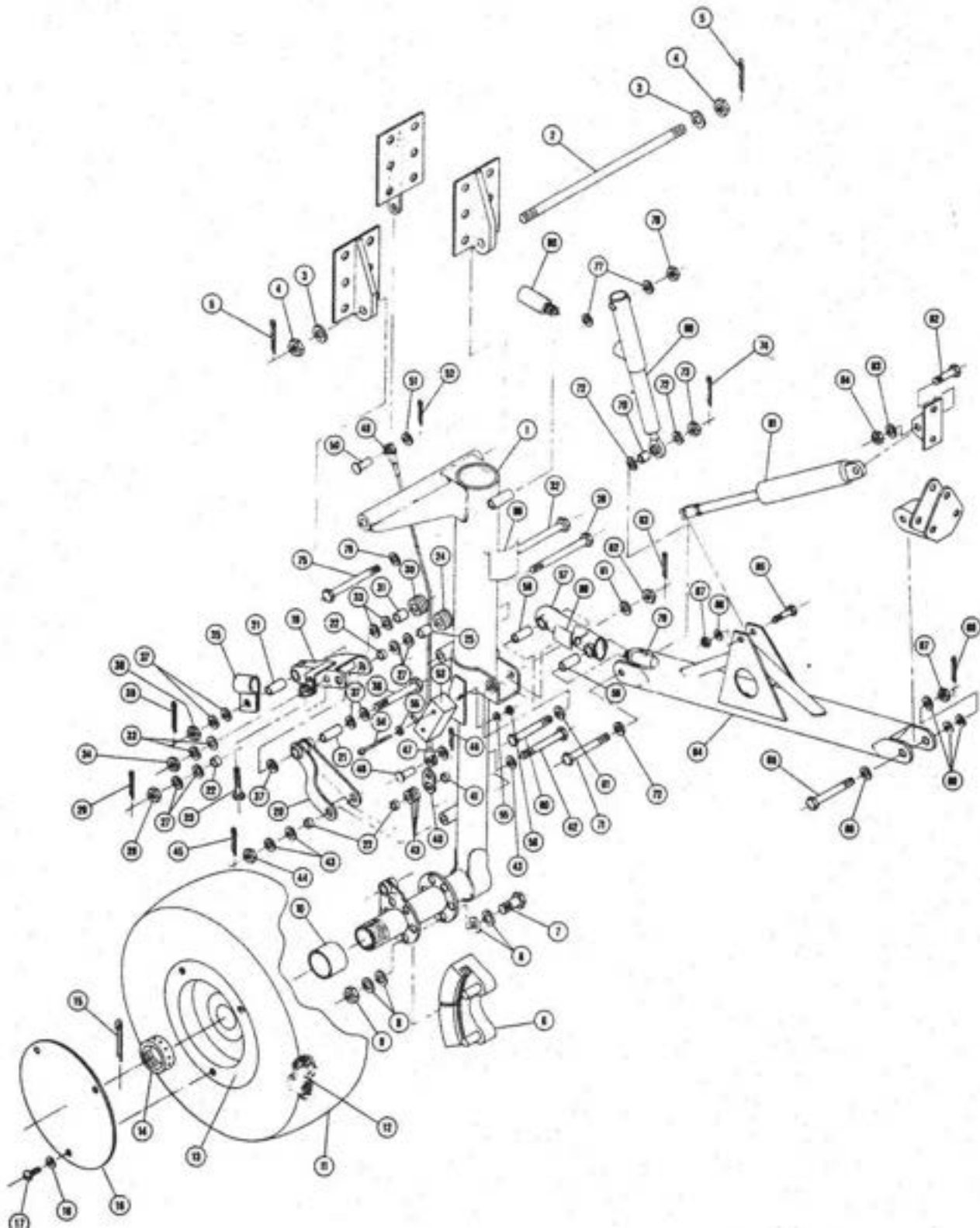


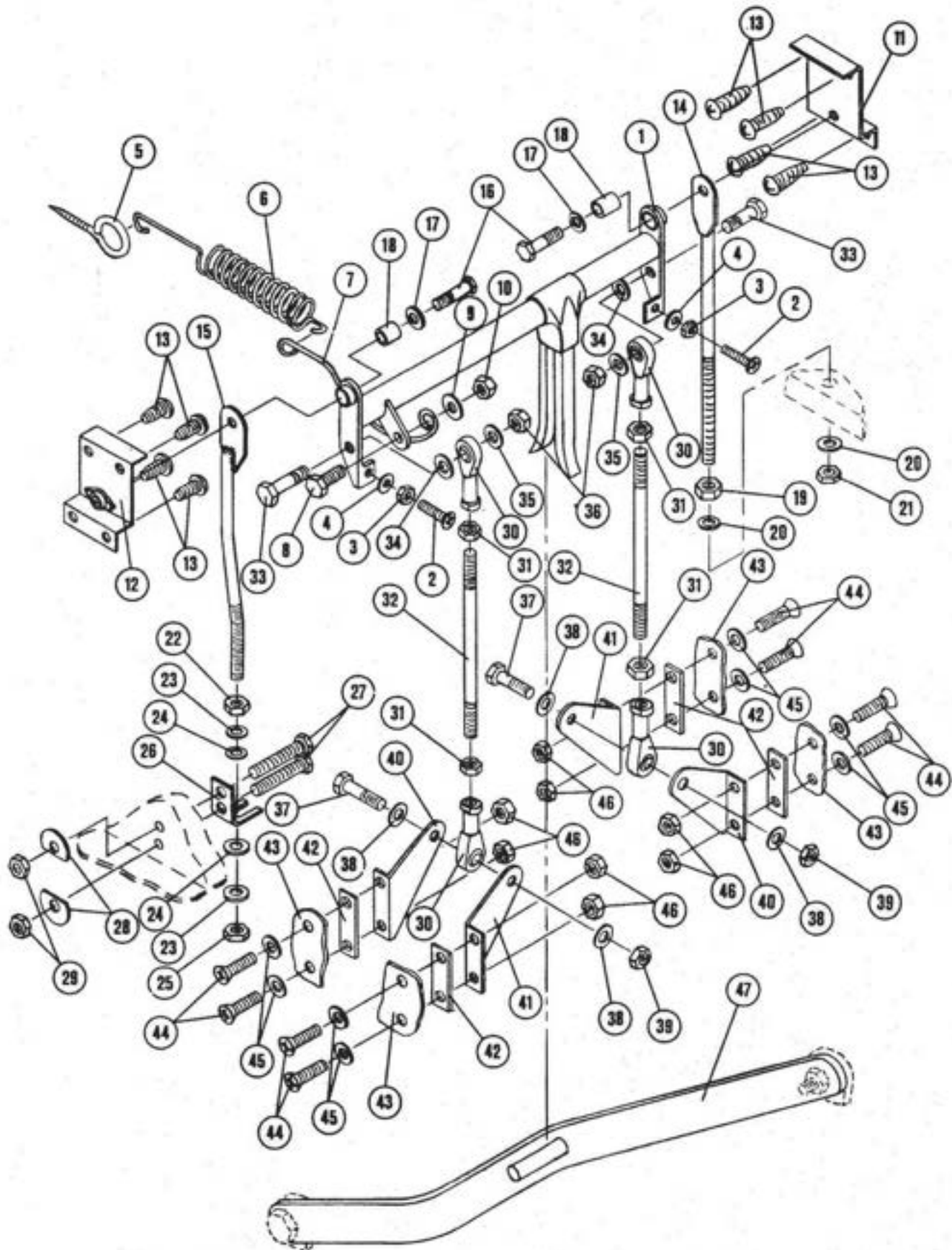
FIGURE 58.3 MAIN LANDING GEAR INSTALLATION

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
58.2-				
-26	191793	Bracket	1	
-27	AN3-16A	Bolt	2	
-28	194384	Washer	2	
-29	AN365-1032	Nut	2	
-30	F34-14M	Bearing	4	
-31	AN315-4	Nut	4	
-32	4006	Link Rod	2	
-33	AN3-10A	Bolt	2	
-34	AN960-10	Washer	2	
-35	AN960-10L	Washer	2	
-36	AN365-1032	Nut	2	
-37	AN3-10A	Bolt	2	
-38	AN960-10	Washer	4	
-39	AN365-1032	Nut	2	
-40	4008-2	Bracket	2	
-41	4008-1	Bracket	2	
-42	194302	Spacer	4	
-43		Door (See Figure 58.1)	-	
-44	AN509-8R-14	Screw	8	
-45	A3135-017-024A	Trim Washer	8	
-46	AN365-832	Nut	8	
-47	4003-2	Door Catch, Right Gear	1	
	4003-1	Door Catch, Left Gear	1	



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
58.2-		MAIN GEAR DOOR ACTUATING MECHANISM		
	4000, B-2	Installation - Main Doors (Right Gear)	-	
	4000, B-I	Installation - Main Doors (Left Gear)	1	
	4002-2	Lever Assembly, Right Gear		
	4002-1	Lever Assembly, Left Gear	1	
- 2	AN525-8R12	Screw	2	
- 3	AN340-8	Nut	2	
- 4	AN936-8	Star Washer	2	
- 5	3/4"	Eye Bolt	1	
- 6	4007	Spring	1	
- 7	4005	Linkage, Spring	1	
- 8	AN3-5A	Bolt	1	
- 9	AN960-10L	Washer	1	
-10	AN365-1032	Nut	1	
-11	4009-1	Bracket	1	
-12	4009-2	Bracket	1	
-13	No. 8 x 3/4	Screw	8	
-14	4004-7	Compression Rod	1	
-15	4004-5	Compression Rod	1	
-16	AN4-11A	Bolt	2	
-17	AN960-416	Washer	2	
-18	4002-17	Bushing	2	
-19	AN315-4	Nut	1	
-20	3/16 x 9/16 x 1/4	Washer	2	
-21	AN364-428	Nut	1	
-22	AN315-4	Nut	1	
-23	AN960-416	Washer	2	
-24	AN936-A416	Star Washer	2	
-25	AN365-428	Nut	1	
		CONTINUED ON NEXT PAGE		



FIBRE 58.E MAIN GEAR DOOR ACTUATING MECHANISM

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE	
58.1-					
-22	AN960-1	Washer	A/R		
-23	194325	Bracket, Right Gear	1		
	194322	Bracket, Left Gear	1		
-24	194321	Bracket, Right Gear	1		
	194324	Bracket, Left Gear1	1		



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
58.1-		MAIN GEAR DOORS		
	4000, B-2	Installation - Main Doors {Right Gear}		
	4000, B-1	Installation - Main Doors (Left Gear)	-	
- 1	4001-6	Cover, Right Gear Forward	1	
	4001-5	Cover, Left Gear Forward	1	
- 2	No. 6 x 1/2	Screw	4	
- 3	No. 6 x 3/8	Screw	8	
- 4	AN3236-012-24A	Washer	12	
- 5	4001-2	Door, Right Gear Inboard	1	
	4001-1	Door, Left Gear Inboard	1	
- 6	4001-4	Door, Right Gear Outboard	1	
	4001-3	Door, Left Gear Outboard	1	
- 7	MB6220-H5	Hinge	2	
- 8	AN530-8R12	Screws	14	
- 9	4001-8	Cover, Right Gear	1	
	4001-7	Cover, Left Gear Rear	1	
-10	No. 6 x 1/2	Screw	5	
-11	No. 6 x 3/8	Screw	4	
-12	AN3236-012-24A	Washer	9	
-13	A1776-4Z-1	Nut, Tinnerman	5	
-14	194348	Bracket	2	
-15	No. 8 x 3/4	Screw	1	
-16	AN1777-8Z3	Nut, Tinnerman	1	
-17	194380-1	Bracket	1	
-18	AN520-10-8	Screw	2	
-19	AN365-1032	Nut	4	
-20	AN960-10L	Washer	A/	
-21	AN526-1032R10	Screw	2	
CONTINUED ON NEXT PAGE				

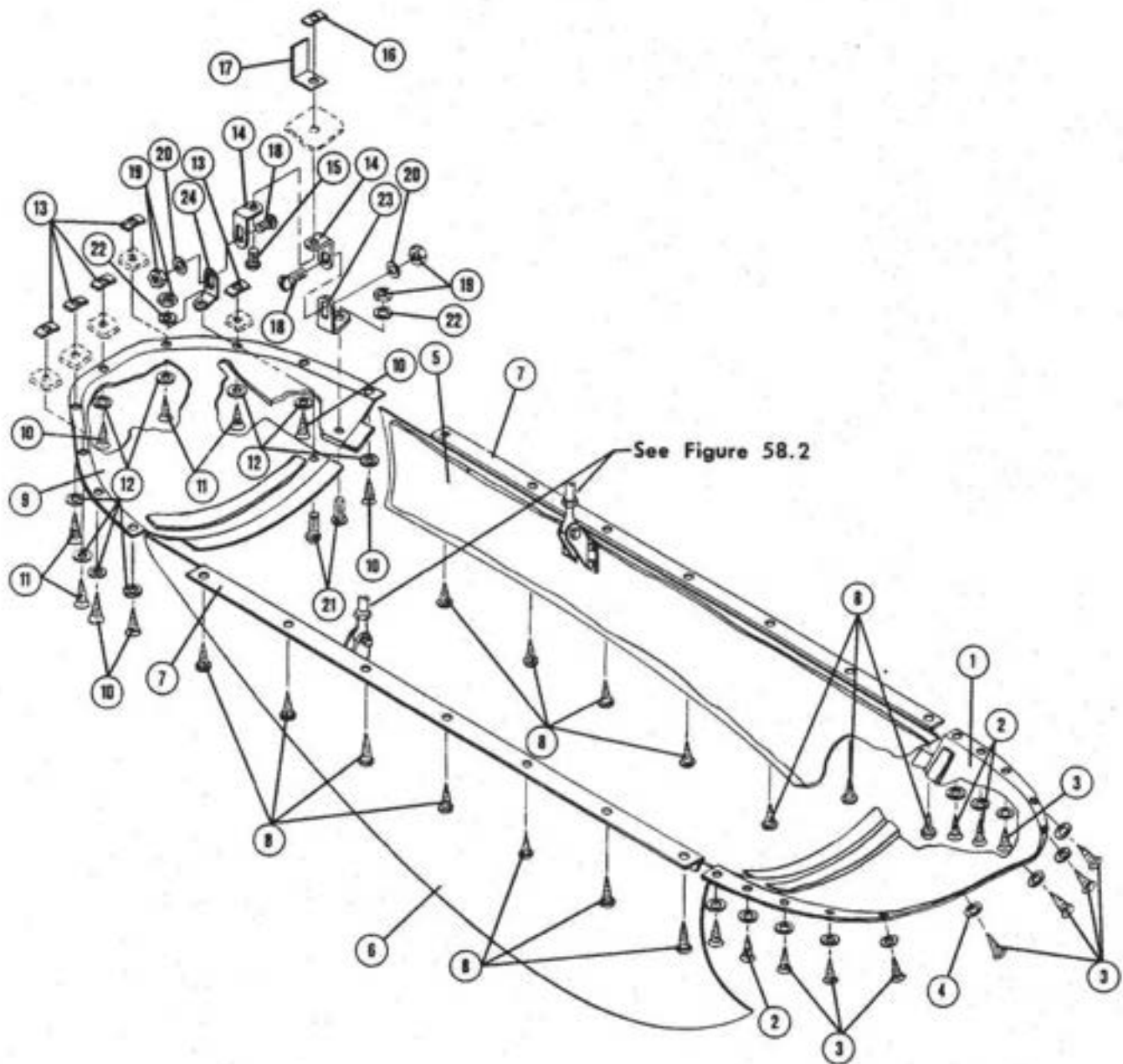


FIGURE 58.1 MAIN GEAR DOORS



57.2-		BRAKE SYSTEM INSTALLATION		
	194400-0	Installation - Brake System	-	D
- 1	198010-1	Hose	1	E
- 2	198008-58	Line	1	E
	AN818-3D	Nut	2	E
	AN819-3D	Sleeve	2	E
- 3	MS21919-OF3	Clamp	2	E
- 4	MS21919-DF8	Clamp	1	E
- 5	MS21919-DF10	Clamp	1	E
- 6	#8 x 3/4	Screw	4	E
- 7	AN815-3D	Union	1	E
- 8	MS21919-DF8	Clamp	1	E
- 9	AN520-10R8	Screw	1	E
-10	AN960-10L	Washer	1	E
-11	MS20365-1032	Nut	1	E
-12	6510014	Wrap Lock	2	E
0 - See Figure 57.1. E - Right hand shown, left hand typical.				

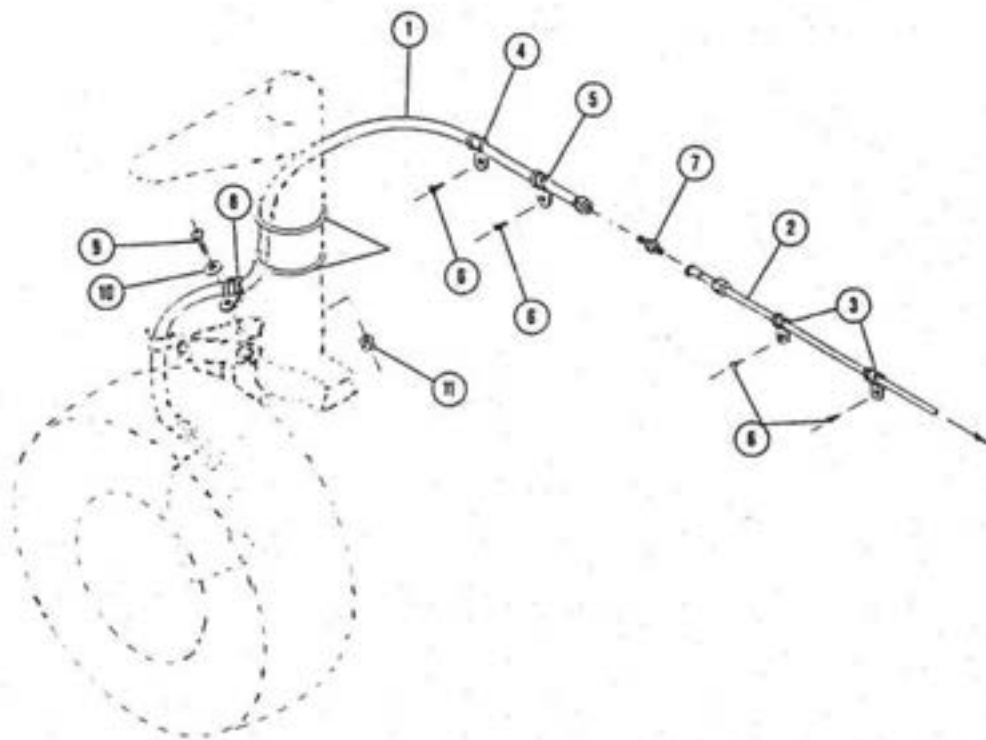


FIGURE 57.2 BRAKE SYSTEM INSTALLATION

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57.1-				
-24	198008-163	Line	1	E
	AN818-3D	Nut	2	
	AN819-3D	Sleeve	2	
-25	A-110-12	Master	2	
-26	AN822-3D	Elbow (90)	2	
-27	AN823-3D	Elbow (45)	1	
-28	AN816-3D	Nipple	1	
	195510-0	Installation - Rudder Pedals		
-29	AN393-21	Flat Pin	2	
-30	AN960-10L	Washer	4	
-31	AN380-2-2	Cotter Pin	2	
-32	AN3-7A	Bolt	2	
-33	AN960-10	Washer	4	
-34	AN365-1032	Nut	2	
-35	AN742-D3	C l a m p	1	
-36	198004-112	Bushing	1	
-37	AN960-10	Washer	1	
-38	AN960-10L	Washer	1	
-39	AN520-10-20	Screw	1	
-40	AN365-1032	Stop Nut	1	
E - Complete Installation Not Shown.				



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
57.1-		BRAKE SYSTEM INSTALLATION		
	194400-0	Installation - Brake System		D,E
- 1	AN821-3D	Elbow	2	
- 2	A-315	Reservoir	1	
- 3	194405-1	Plug	1	
- 4	M535207-261	Screw	2	
- 5	AN960-10L	Washer	2	
- 6	AN816-30	Nipple	1	
- 7	198010-45	Hose	1	A,B
	198010-65	Hose	1	C
- 8	198010-44	Hose	1	
- 9	198010-43	Hose	1	
-10	64-032-611	Control Cable	1	
-11	AN520-10R8	Screw	1	
-12	AN742-D3	Clamp	1	
-13	AN960-10L	Washer	1	
-14	MS20365-1032	Nut	1	
-15	FT-319	Connector Fitting	1	
-16	A-850-2	Valve	1	
-17	AN3-12A	Bolt	2	
-18	AN960-10	Washer	2	
-19	AN960-10L	Washer	2	
-20	MS20365-1032	Nut	2	
-21	198003-128	Hose	1R	
-22	198003-128	Hose	1L	
-23	198008-162	Line	1	
	AN818-3D	.Nut	2	
	AN819-3D	Sleeve	2	
CONTINUED ON NEXT PAGE				
D - See Figure 57.2.				
E - Complete Installation Not Shown.				

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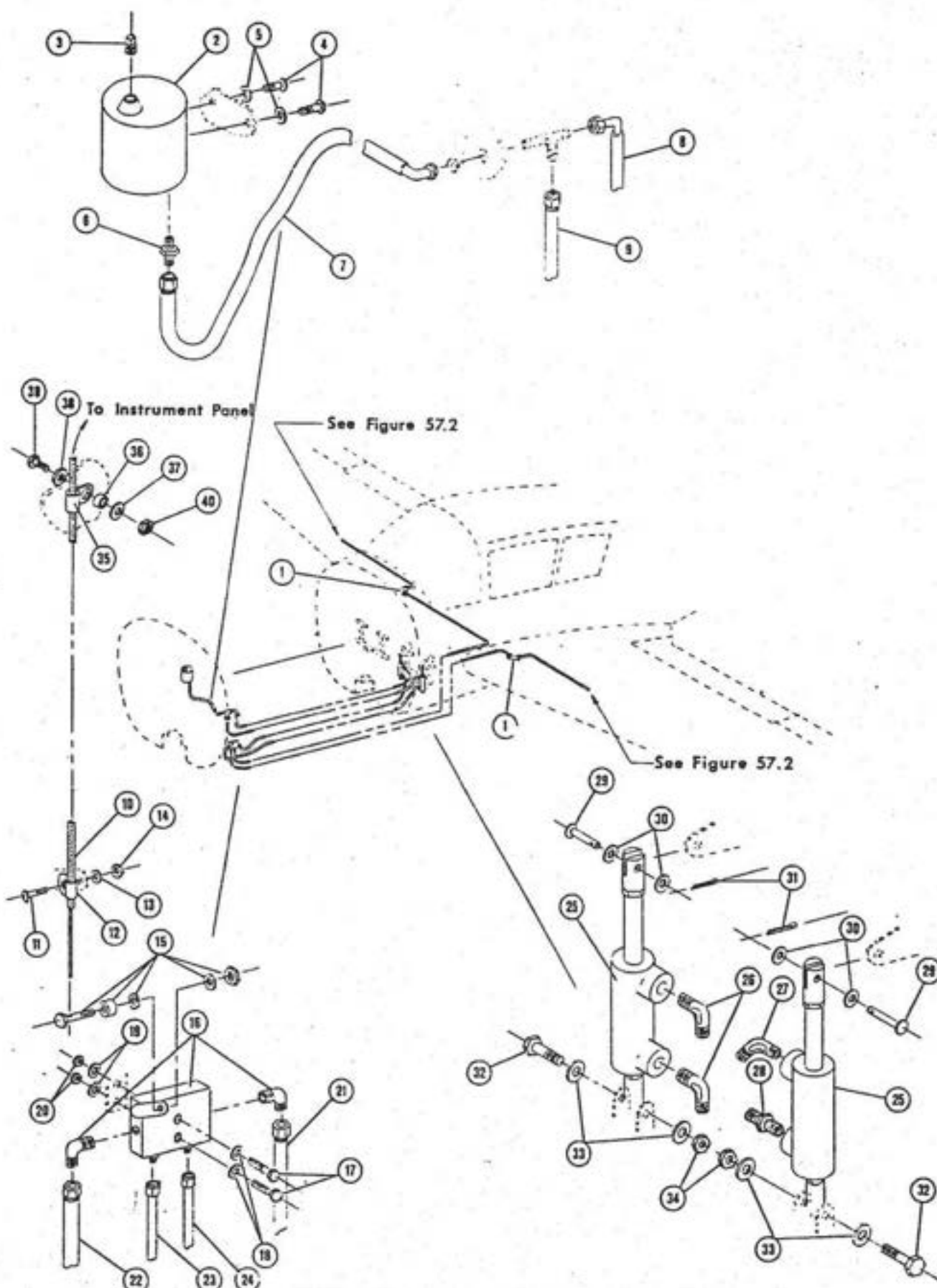


FIGURE 57.1 BRAKE SYSTEM INSTALLATION

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	FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
	56.2-		EXTENSION ASSEMBLY - MAIN GEAR		
		194364-20	Extension Assembly - Main Gear	-	
	- 1	19465-4	Spring	1	
	- 2	194364-10	Tube - Inner, L/H	1 L	
		19436440	Tube - Inner, R/H	1 R	
		194364-0	Tube - Outer	1	
	- 4	198004-35	Bushing	1	
	- 5	AN936A516	Washer	1	
	- 6	AN316-5R	Nut	1	
	- 7	198001-3	Bearing - Rod End	1	
	- 8	C32-2	Plug	1	

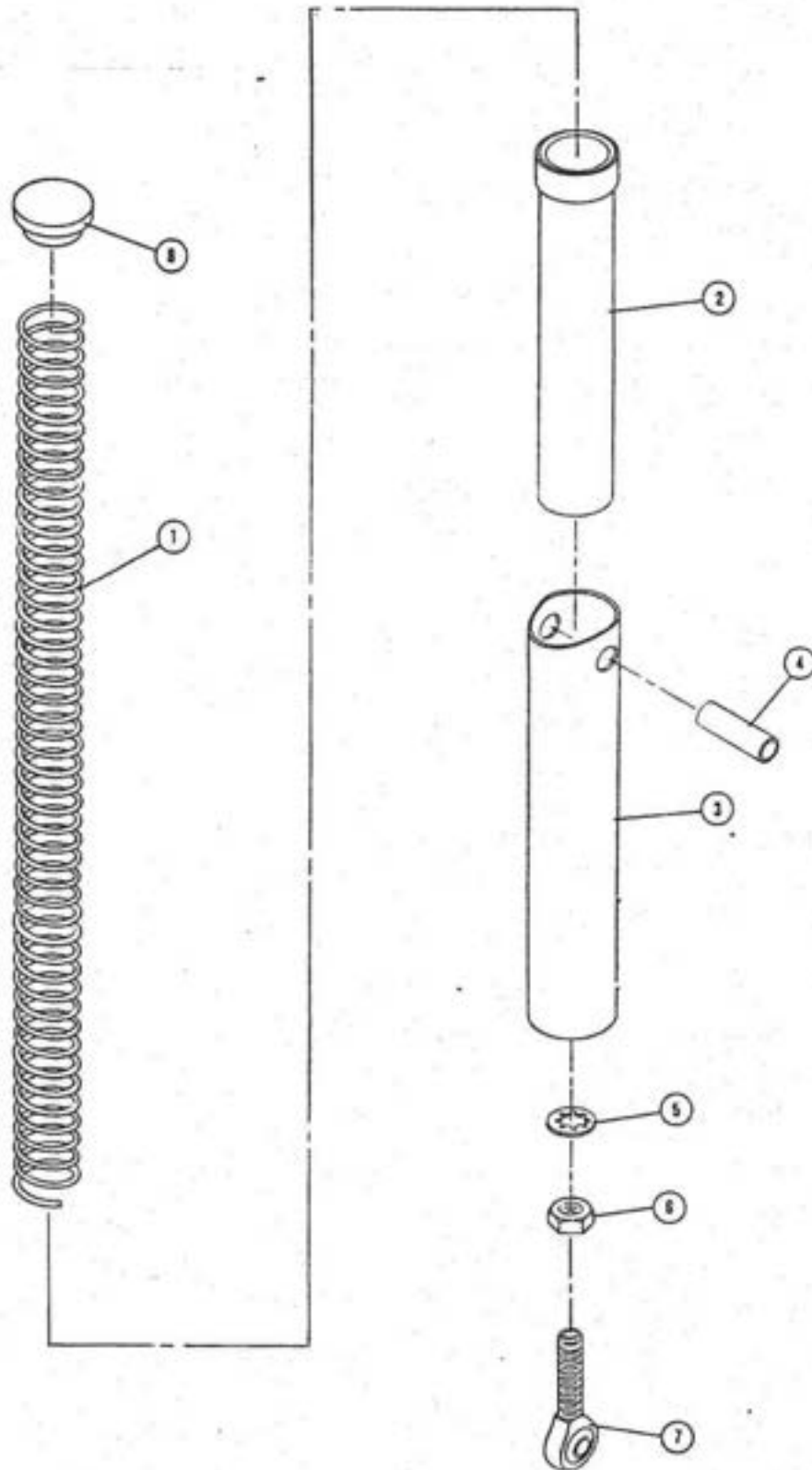


FIGURE 56.2 EXTENSION ASSEMBLY - MAIN GEAR



FIGURE AND INDEX N O.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
56.1-		EXTENSION ASSEMBLY - NOSE GEAR		
	194319'	Extension Assembly	-	
- 1	19465-2	Spring	1	
- 2	194318	Tube Inner	1	
- 3	194317	Tube Outer	1	
- 4	198004-35	Bushing	1	
- 5	AN936A416	Washer	1	
- 6	AN316-4R	Nut	1	
- 7	198001-2	Bearing - Rod End	1	
- 8	194381-L1	Plug	1	

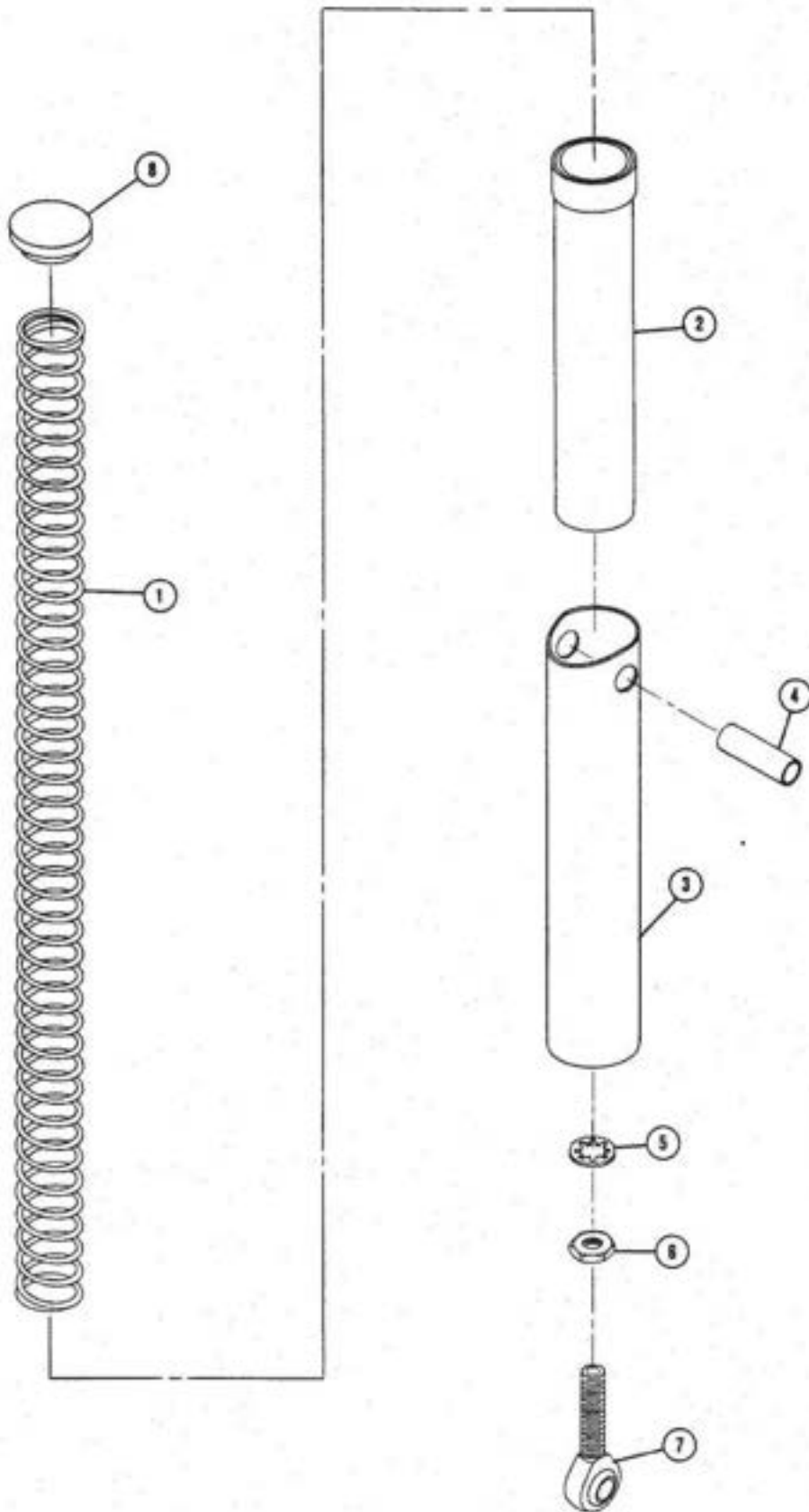


FIGURE 56.1 EXTENSION ASSEMBLY - NOSE GEAR



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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
55-		CYLINDER ASSEMBLY - NOSE GEAR		
	195580	Cylinder Assembly		
- 1	198001-1	Bearing - Rod End	2	
- 2	NAS-509-6	Check Nut	2	
- 3	5000-125	Ring, Retaining	2	
- 4	195578	Plug, End	1	
- 5	AN6227B-19	"0" Ring	3	
- 6	195574	Barrel	1	
- 7	195639-1	Placard	1	
- 8	195318	Lock Cap	1	
- 9	8-214	Back-Up Ring	1	
-10	195547	Piston	1	
-11	AN6227B-7	"0"	1	
-12	8-012	Back-Up	1	
-13	195320	Lock Ring	2	
-14	195557	Shaft	1	
-15	23-S-094-0750	Pin, Spring	1	
-16	195576-0	Spacer	1	
-17	198004-65	Bushing	2	
-18	195577-2	Sleeve	1	
-19	195575	Spring	1	
-20	195546	Plug, End	1	
-21	AN6227B-10	"0" Ring	1	
-22	8-112	Back-Up Ring	1	

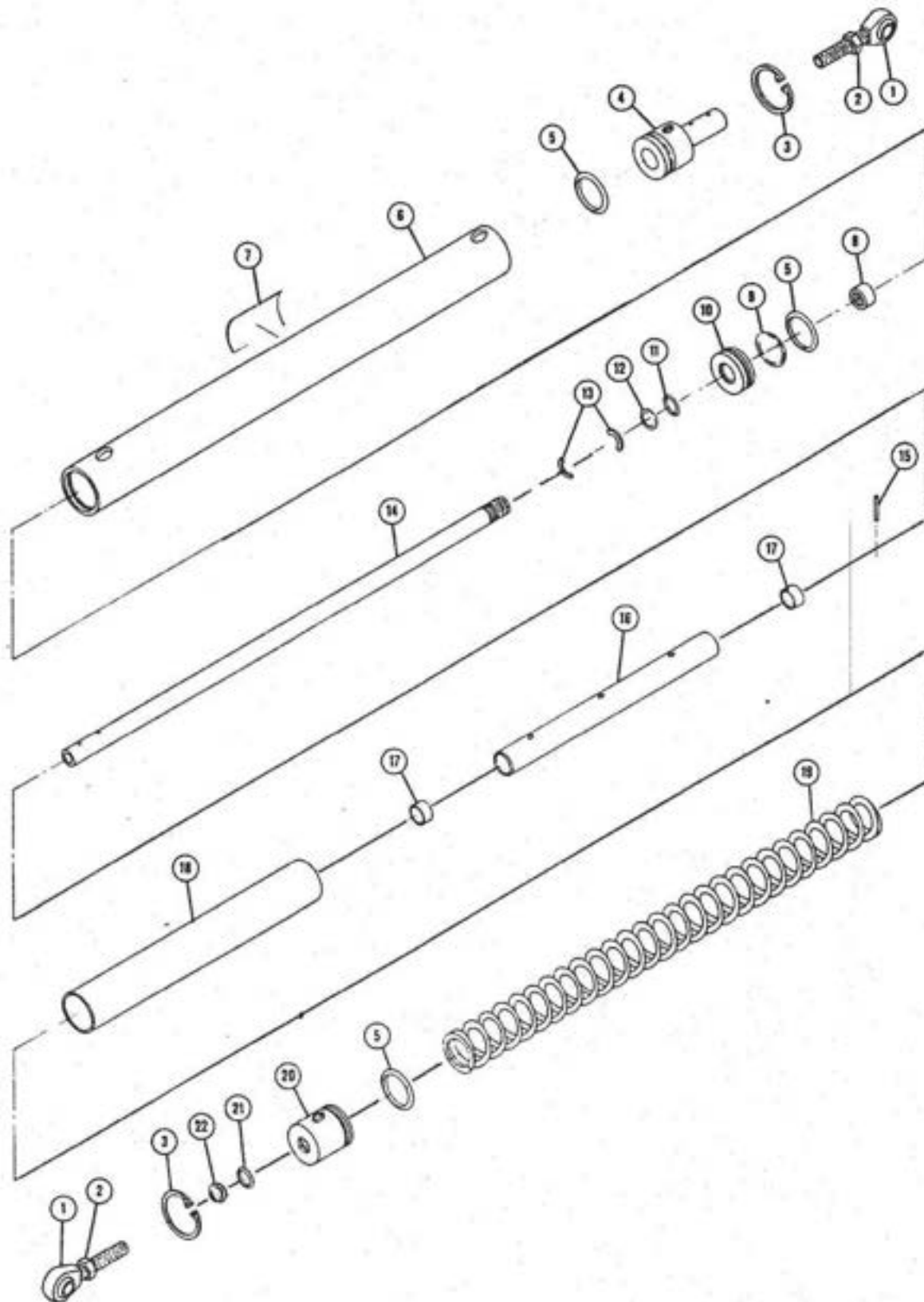


FIGURE 55. CYLINDER ASSEMBLY - NOSE GEAR

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
54.-				
-28	1637B1	Fitting - Lubricator	1	
-29	AN4-24A	Bo1t	1	
-30	AN960-416	Washer	2	
-31	MS20364-428	Nut	1	



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
54.-		NOSE GEAR ASSEMBLY		
	194414	Nose Gear	1	
- 1	194408-0	Upper Leg - Nose		
- 2	19438-1	Bushing	2	
- 3	198004-71	Bushing	1	
- 4	1641B	Fitting - Lubricator	1	
- 5	1468A6	Fitting - Air Valve	1	
- 6	19402-2	Spring	1	
- 7	19445	Actuator, Spring	1	
- 8	194377-10°	Piston Assembly	1	
- 9	901854	Ring,	1	
-10	AN6227-7	"O" Ring	1	
-11	AN960-716	Washer	1	
-12	MS20364-720	Nut	1	
-13	RS-187	Ring - Retaining	1	
-14	194329	Bushing	1	
-15	198004-91	Bushing	1	
-16	AN6230-5	"O" ^H	1	
-17	194331	Bushing-	1	
-18	AN6227-31	"O" Ring	1	
-19	194151-3	Seal - Wiper	1	
-20	19442-1	Retainer	A/R	
-21	19442-2	Retainer	A/R.	
-22	3000-225	Ring - Retaining	1	
-23	AN6227B-25	"O" Ring	1	
-24	19451-1	Plug	1	
-25	194340-10	Fork Assembly	1	
-26	194337	Tube - Lower Leg	1	
-27	194368	Bushing	1	
CONTINUED ON NEXT PAGE				

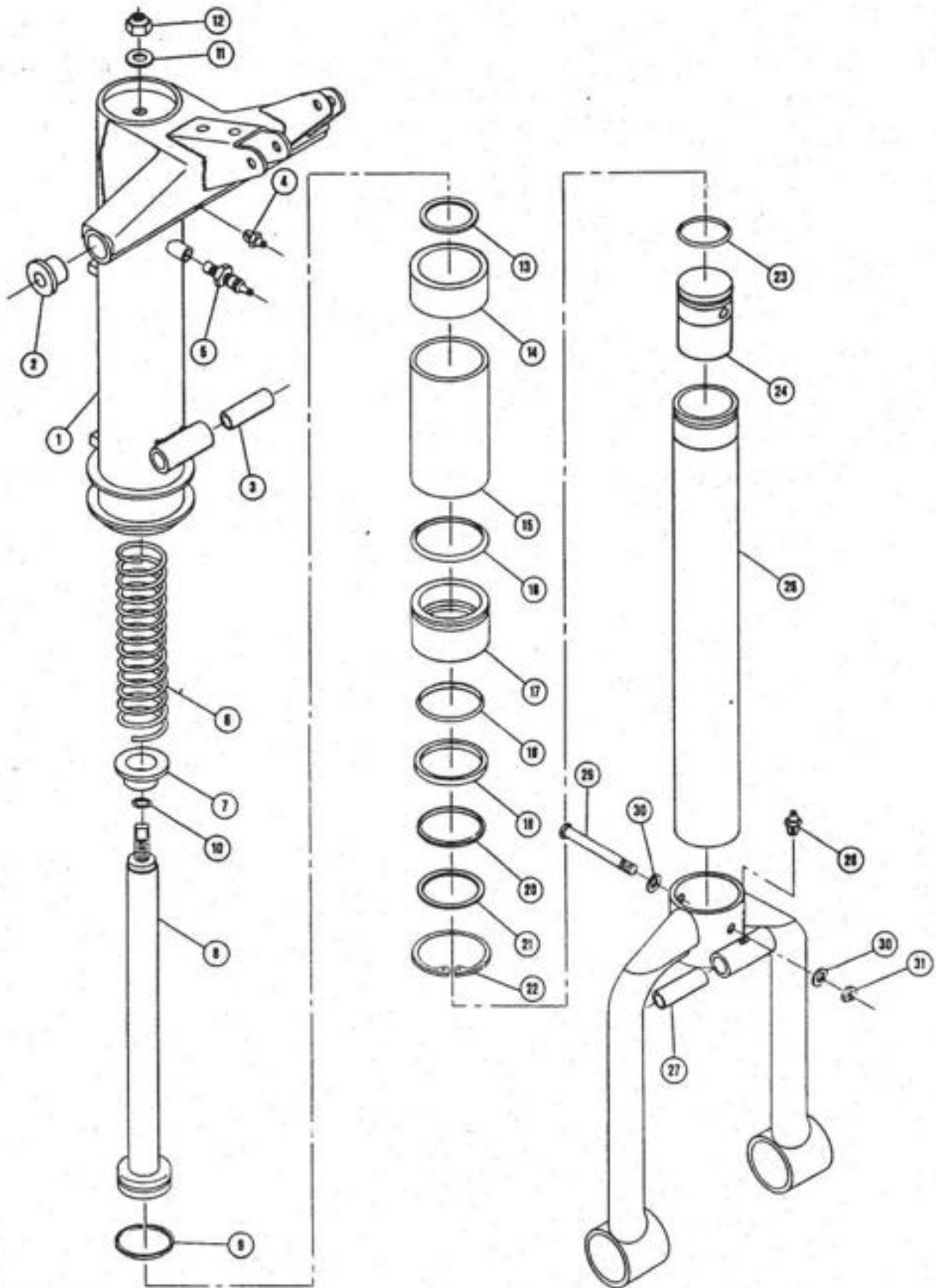


FIGURE 54. NOSE GEAR ASSEMBLY



FIGURE AND INDEX NO,	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
53.4-				
-26	AN960-416L	Washer	2	D
-27	MS20365-428	Nut	2	D
-28	AN6-13A	Bolt	1	
-29	AN960-616L	Washer	1	
-30	AN960-616	Washer	1	
-31	MS20365-624	Nut	1	
-32	195580	Cylinder Assembly	1	
D - This item is typical in two places as shown.				



FIGURE AND INDEX N O.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
53.4		NOSE GEAR INSTALLATION-CYLINDER AND UPPER DRAG STRUT		
	194391	Installation - Nose Landing Gear		
- 1	AN6-13A	Bolt	1	
- 2	AN960-616	Washer	1	
- 3	AN960-616L	Washer	1	
- 4	MS20365-624	Nut	1	
- 5	AN4-16A	Bolt	1	
- 6	AN960-416	Washer	1	
- 7	AN960-416L	Washer	1	
- 8	MS20365-428	Nut	1	
- 9	194319	Extension Assembly	1	
-10	AN4-10A	Bolt	1	
-11	AN960-416	Washer	3	
-12	MS20365-428	N u t	1	
-13	194390-0	Drag Strut - Upper	1	
-14	AN5-24	Bolt	2	
-15	AN960-516L	Washer	2	
-16	198004-64	Bushing	2	
-17	AN960-516	Washer	6	
-18	AN310-5	Nut	2	
-19	MS24665-132	Cotter Pin	2	
-20	194383-0	Bracket - Drag Strut, L/ N	1	
-21	194383-10	Bracket - Drag Strut, R/H	1	
-22	AN4-17A	Bolt	2	
-23	AN960-416L	Washer	2	
-24	MS20365-428	Nut	2	
-25	AN4-22A	Bolt	2	D
		CONTINUED ON NEXT PAGE		
		D - This item is typical in two places as shown.		

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
47-				
-27	195376	Pulley Guard	2	
-28	AN4-10	Bolt	2	
-29	AN960-416	Washer	4	
-30	AN310-4	Nut	2	
-31	AN380-2-2	Cotter Pin	2	
-32	AN3-4	Bolt	2	
-33	195379	Nut	2	
-34	AN380-2-2	Cotter Pin	2	
-35	AN23-11	Bolt, Clevis	1	
-36	AN960-416	Washer	1	
-37	AN310-3	Nut	1	
-38	AN380-2-2	Cotter Pin	1	
-39	195621	Link	2	
-40	AN23-11	Bolt, Clevis	1	
-41	AN960-10L	Washer	1	
-42	AN310-3	Nut	1	
-43	AN380-2-2	Cotter Pin	1	
-44	AN24-11	Bolt, Clevis	1	
-45	AN960-416L	Washer	1	
-46	AN310-4	Nut	1	
-47	AN380-2-2	Cotter Pin	1	

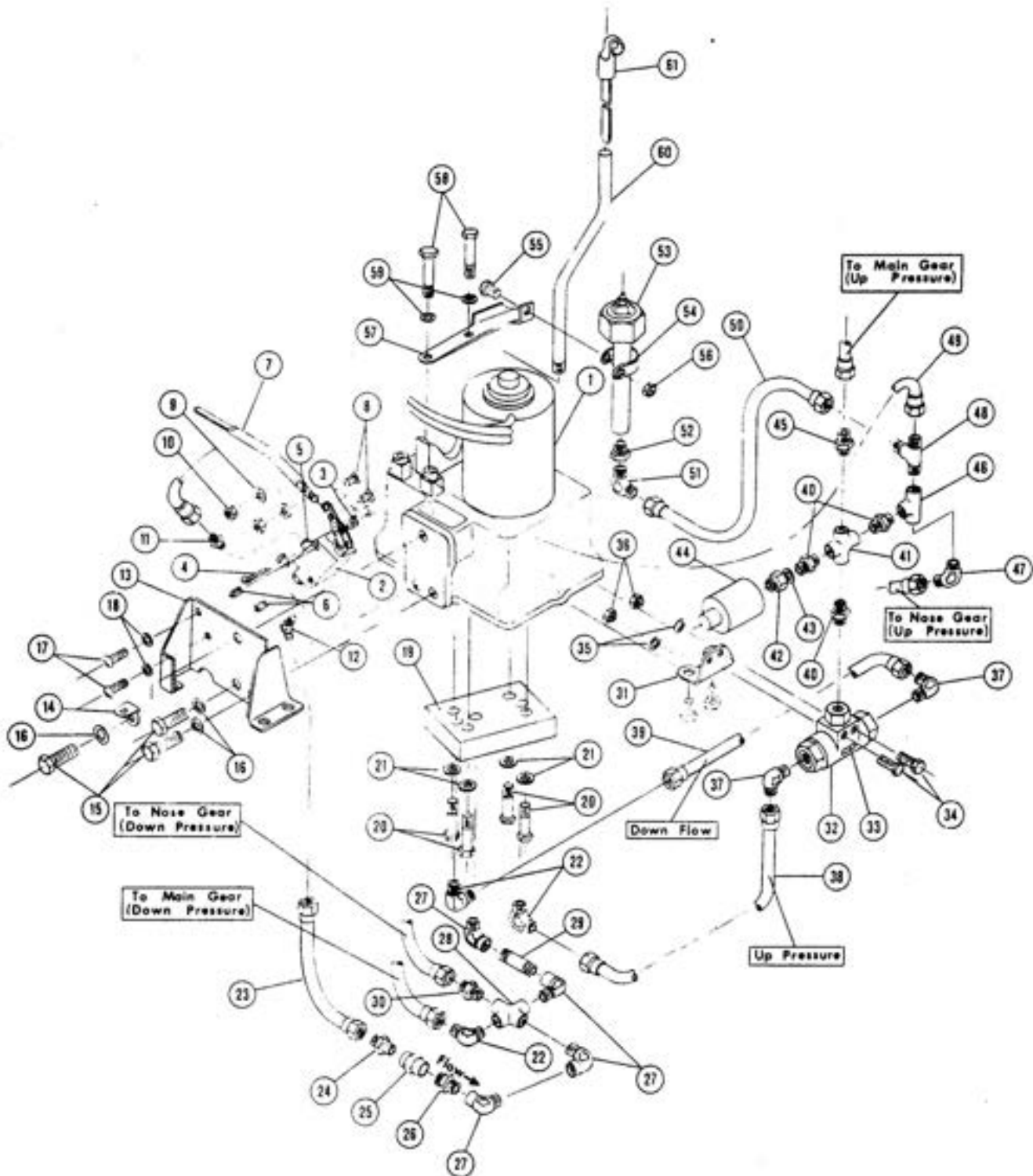


FIGURE 61.2 POWER PAK & HYDRAULIC SYSTEM

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
61.2-		POWER PAK AND HYDRAULIC SYSTEM		
	195672	Power Pak Assembly	-	
- 1	195633	Hydraulic Pump - Power Pak	1	
- 2	195692-0	Valve Assembly	1	
- 3	195690-1	Spring	1	
- 4	MS24665-283	Cotter Pin	1	
- 5	195691-1	Placard	1	
- 6	3591-4CN-625	Insert	2	
- 7	195689-1	Lever	1	
- 8	AN526-6R8	Screw	2	
- 9	AN960-6	Washer	2	
-10	MS20365-632	Nut	2	
-11	AN816-3D	Nipple	1	
-12	MS20823-3D	Elbow	1	
-13	195589	Bracket	1	
-14	195629	Clip	1	
-15	AN6-5A	Bolt	3	
-16	AN960-616	Washer	3	
-17	AN520-4-12	Screw	2	
-18	AN960-416	Washer	2	
-19	195594-1	Adaptor Body	1	
-20	AN4H-11A	Bolt	4	
-21	AN960-416	Washer	4	
-22	MS20822-4D	Elbow	3	
-23	198008-173	Metal Line	1	D
	AN818-3D	Nut	2	
	AN819-3D	Sleeve	2	

-24	AN816-3D	Nipple CONTINUED ON NEXT PAGE D - This part sold as a unit with the nuts and sleeves assembled.	1	
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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
61.2-				
-25	AN910-10	Coupling	1	
-26	B-101	Check Valve	1	
-27	AN914-1D	Elbow	4	
-2'	AN918-1D	Cross	1	
-29	195602	Nipple	1	
-30	AN816-4D	Nipple	1	
-31	195673-1	Bracket	1	
-32	195675-0	Shuttle Valve Assembly	1	
-;3	195675-1	Placard	1	
-34	AN3-13A	Bolt	2	
-35	AN960-10L	Washer	2	
-36	MS20365-1032	Nut	2	
	MS20822-4D	Elbow	2	
-38	198008-175	Metal Line	1	D
	AN818-4D	Nut	2	
	AN819-4D	Sleeve	2	
-39	198008-174	Metal Line	1	D
	AN818-4D	Nut	2	
	AN819-4D	Sleeve	2	
-40	AN911-1D	Nipple	3	
-41	AN918-1D	Cross	1	
-42	195630	Union	1	
-43	AN6227-B7	"0" Ring	1	
-44	194375	Pressure Switch	1	
-45	AN816-4D	Nipple	1	

-46	AN917-1D	Tee	1	
		CONTINUED ON NEXT PAGE		
		D - This part sold as a unit with the nuts and sleeves assembled.		

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
61.2-				
-47	MS20823-4D	Elbow	1	
-48	AN826-3D	Tee	1	
-49	198008-150	Metal Line	1	D
	AN818-3D	Nut	2	
	AN819-3D	Sleeve	2	
-50	198008-151	Metal Line	1	D
	AN818-3D	Nut	2	
	AN819-3D	Sleeve	2	
-51	MS20822-3D	Elbow	1	
-52	AN912-1D	Bushing	1	
-53	A1146-200	Accumulator	1	
-54	MS21919-DF14	Clamp	1	
-55	AN520-10R10	Screw	1	
-56	MS20365-1032	Nut	1	
-57	U195648-1	Bracket	1	
-58	AN4-4A	Bolt	2	
-59	AN960-416L	Washer	2	
-60	195640-1	Tube	1	
-61	195640-0	Stick	1	
D - This part sold as a unit with the nuts and sleeves assembled.				

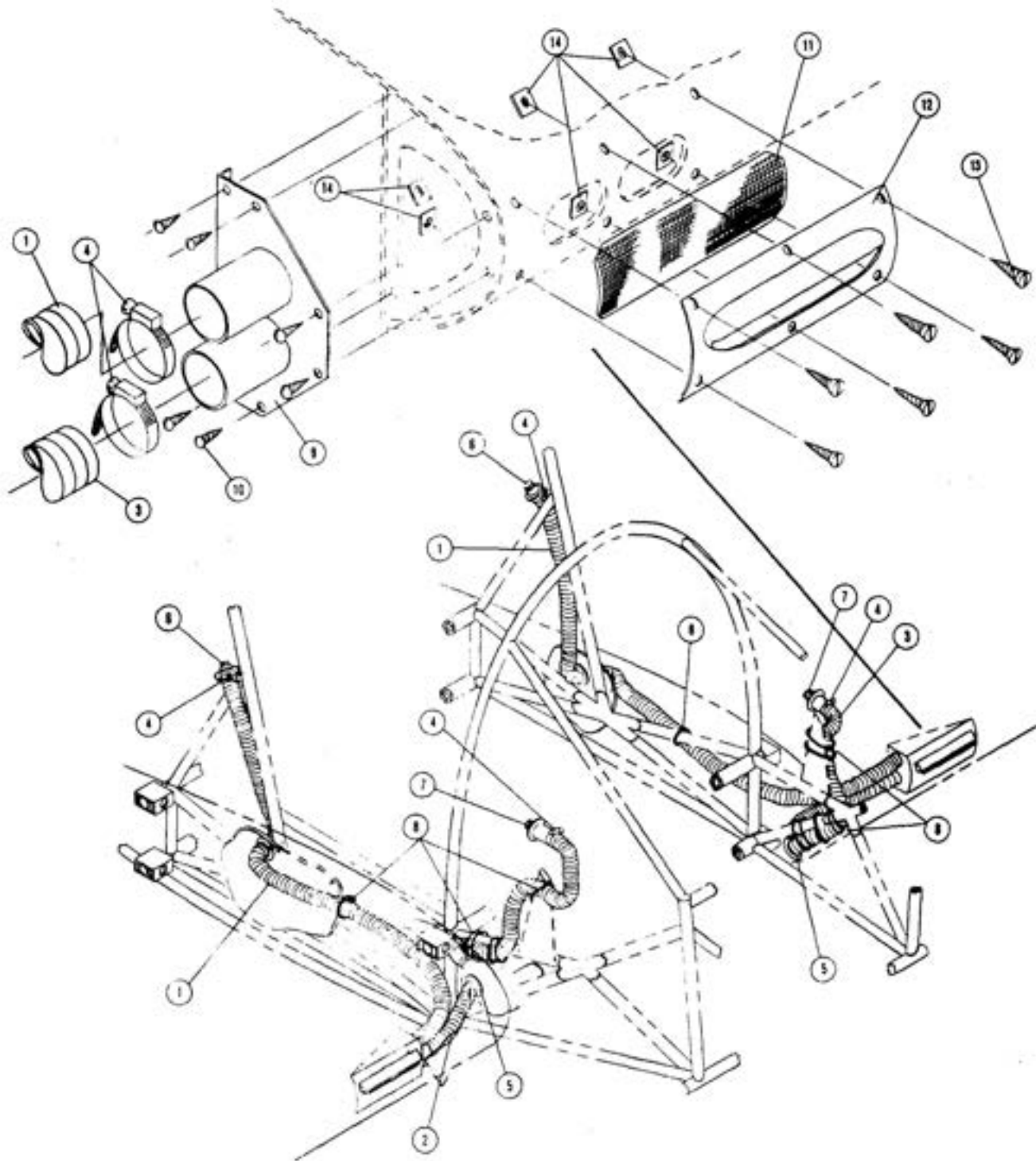


FIGURE 62.1 CABIN FRESH AIR SYSTEM

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
62.1-		CABIN FRESH AIR SYSTEM		
	196585	Fresh Air System - Installation	1	
- 1	196585-18	Flex Hose	1R/1L	
- 2	196585-17	Flex Hose	1R	
- 3	198010-46	Flex Hose	1L	
- 4	AN737-TW-58	Clamp	4R/4L	
- 5	MS35489-27	Grommet	1R/1L	
- 6	196585-90	Air Vent Assembly (See Figure 62.2)	1R/1L	
- 7	196585-110	Air Vent Assembly (See Figure 62.2)	1R/1L	D, E
	196585-120	Air Vent Assembly (See Figure 62.2)	1R/1L	F
- 8	MS3367-2-9	Nylon Strap	6R/8L	
	192532	Fresh Air Intake Installation (Wing)	-	
	192517	Fresh Air Intake Assembly	1	
- 9	192517-10	Manifold Assembly	1	G
-10	No. 6 x 3/8	Screw, Wood	6	G
-11	192517-3	Screen	1	G
-12	192517-4	Cover	1	G
-13	AN531-6 10	Screw 6 x 5/8 FHP	6	G
-14	A1776-6Z-1	Nut, Tinnerman	6	G
D-This part optional on both sides for all aircraft with serial numbers 75-30727 through 75-30796, 75-32-145 through 75-32-161 and 75-31108 through 75-31120. E-This part standard on right side and optional on left side for all aircraft with serial numbers 76-30797 and up, 76-32-162 and up, and 76-31121 and up. F-This part optional on right and left side for all aircraft. G-Left side shown, right side typical.				

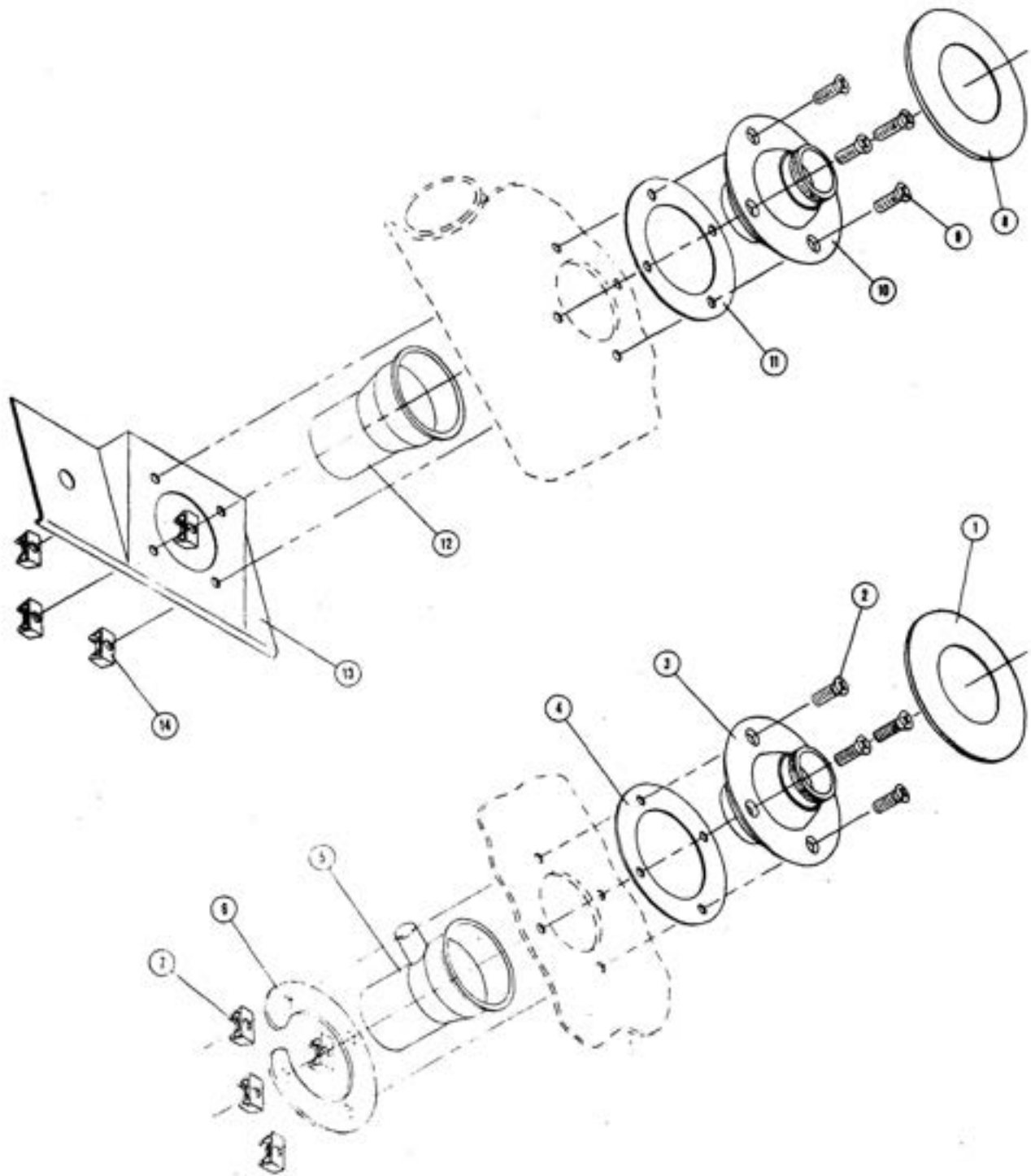


FIGURE 62.2 AIR VENT ASSEMBLY



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
62.2-		AIR VENT ASSEMBLY		
	196585	Installation - Fresh Air System	-	
	196585-110	Air Vent Assembly	-	D,E
	196585-120	Air Vent Assembly	-	F
- 1	7194	Cover	1	
- 2	AN507-6R8	Screw	4	
- 3	1755-501	Valve, Vent	1	
- 4	196585-21	Gasket	1	
- 5	196585-100	Adaptor	1	G
	198012-6	Adaptor	1	H
- 6	206065-1	Ring	1	
- 7	A8938-632-24J	Nut, Tinnerman	4	
	195585-90	Air Vent Assembly	-	
- 8	7194	Cover	1	
- 9	AN507-6R8	Screw	4	
-10	1755-501	Valve, Vent	1	
-11	196585-21	Gasket	1	
-12	198012-6	Adaptor	1	
-13	196859	Plate	1	
-14	A8938-632-24A	Nut, Tinnerman	4	
D-This part optional on both sides for all aircraft with serial numbers 75-30727 through 75-30796, 75-32-145 through 75-32-161 and 75-31108 through 75-31120. E-This part standard on right side and optional on left side for all aircraft with serial numbers 76-30797 and up, 76-32-162 and up and 76-31121 and up. F-This part optional on right and left side for all aircraft. G-This part installed in 196585-110 assembly only. H-This part installed in 196585-120 assembly only.				

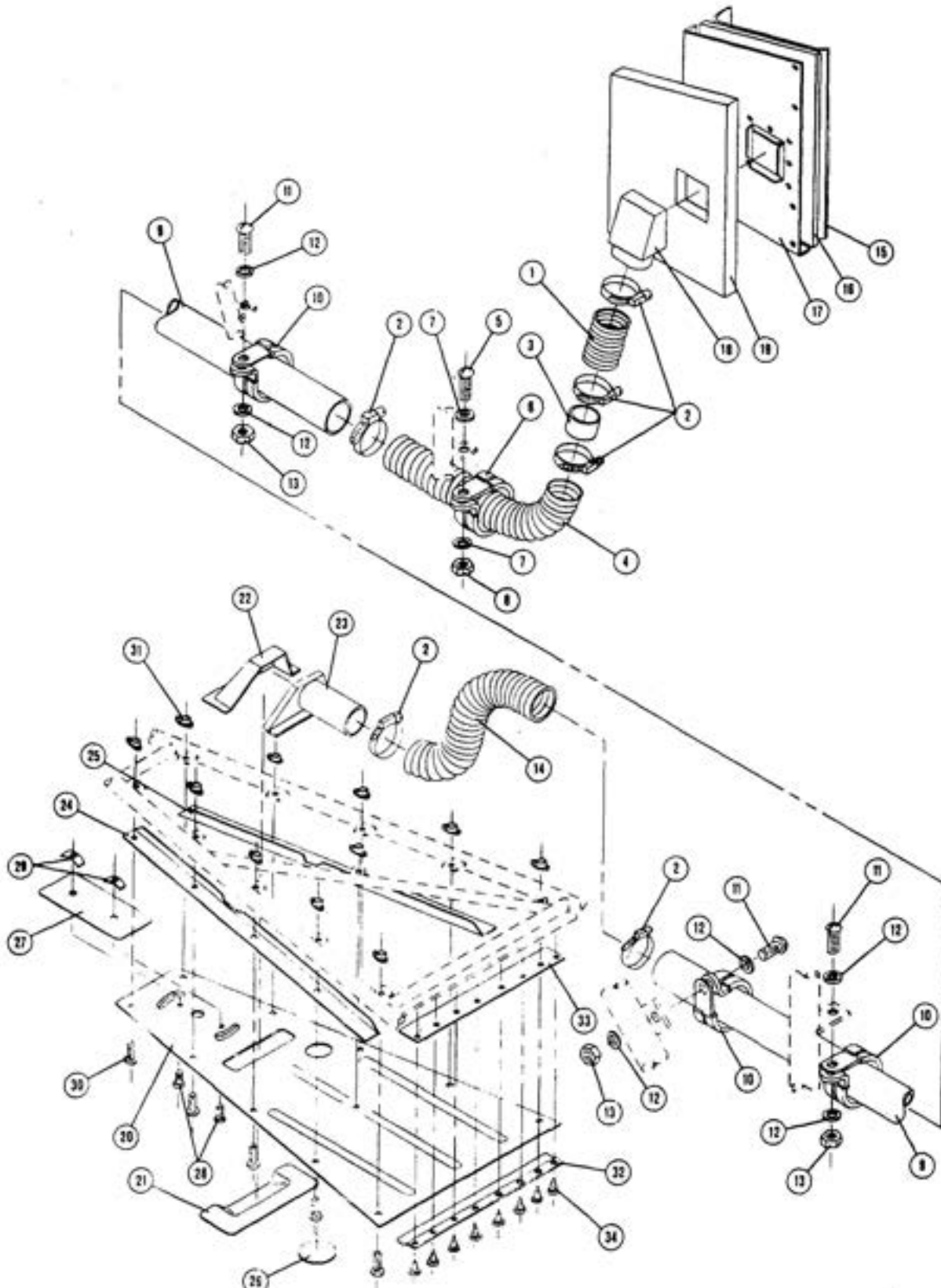


FIGURE 62.3 CABIN EXHAUST SYSTEM

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FIGURE AND INDEX	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
62.3-		CABIN EXHAUST SYSTEM		
	206151	Installation - Cabin Exhaust		
- 1	198010-28	Flex Hose	1	
- 2	QS200-M36S	Clamp	6	
- 3	198008-161	Metal Line	1	
- 4	198010-19	Flex Hose	1	
- 5	AN520-10R14	Screw	1	
	AN520-10R24	Screw	1	D
- 6	MS21919-DF40	Clamp	1	
- 7	AN960-10L	Washer	2	
	AN960-10L	Washer	1	D
	AN970-3	Washer	1	D
- 8	MS20365-1032	Nut	1	
- 9	198008-159	Metal Line	1	
-10	MS21919-DF40	Clamp	3	
-11	AN520-10-10	Screw	3	
-12	AN960-10	Washer	6	
-13	MS20365-1032	Nut	3	
-14	198010-18	Flex Hose	1	
	196608-280	Upholstery Assembly - Exhaust Panel	1	
-15	196608-96	Cloth	1	E
-16	196608-162	Foam	1	
	206138-0	Panel Assembly	1	
CONTINUED ON NEXT PAGE				
D-This part installed only with the Avionics Power Supply Board 197151.				
E-When ordering this interior upholstery, the color and material must be specified or the aircraft serial number noted.				

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62.3-				
-17	206138-1	Panel	1	
-18	206137-0	Adaptor Assembly	1	
-19	196608-107	Insulation Foam	1	
	206149	Cabin Exhaust Assembly	-	F
	206149-30	Cover Assembly	1	F
-20	206208-1	Cover (See Figure 62.4)	1	
-21	206141-1	Louver	1	
	206149-0	Adaptor Assembly	1	
-22	U206139-2	Rear Plate	1	
-23	U206139-1	Front Plate	1	G
	206140-1	Tube	1	G
-24	U206266-2	Stiffener	1	
-25	U206266-1	Stiffener	1	
	206211	Installation -Inspection Cover (Lower Aft)	-	
-26	193109	Cover	1	
-27	206198-1	Plate	1	
-28	No. 8 x 1/2	Screw	2	
-29	A1778-8Z-1	Nut, Tinnerman	2	
-30	AN526-10R12	Screw	11	
	AN526-10-12	Screw (Alternate For AN526-10R12)	11	
-31	MS21078-3	Nut Plate	11	
-32	206210-1	Retainer	1	
-33	206209-1	Retainer	1	
-34	No. 4 x 3/8	Screw (P.K.)	8	
F-This part used on aircraft with serial numbers 75-30727 through 76-30806, 75-32-145 through 76-32-162 and 75-31108 through 76-31122.				
G-The U206139-1 front plate and 206140-1 tube are sold as one part.				

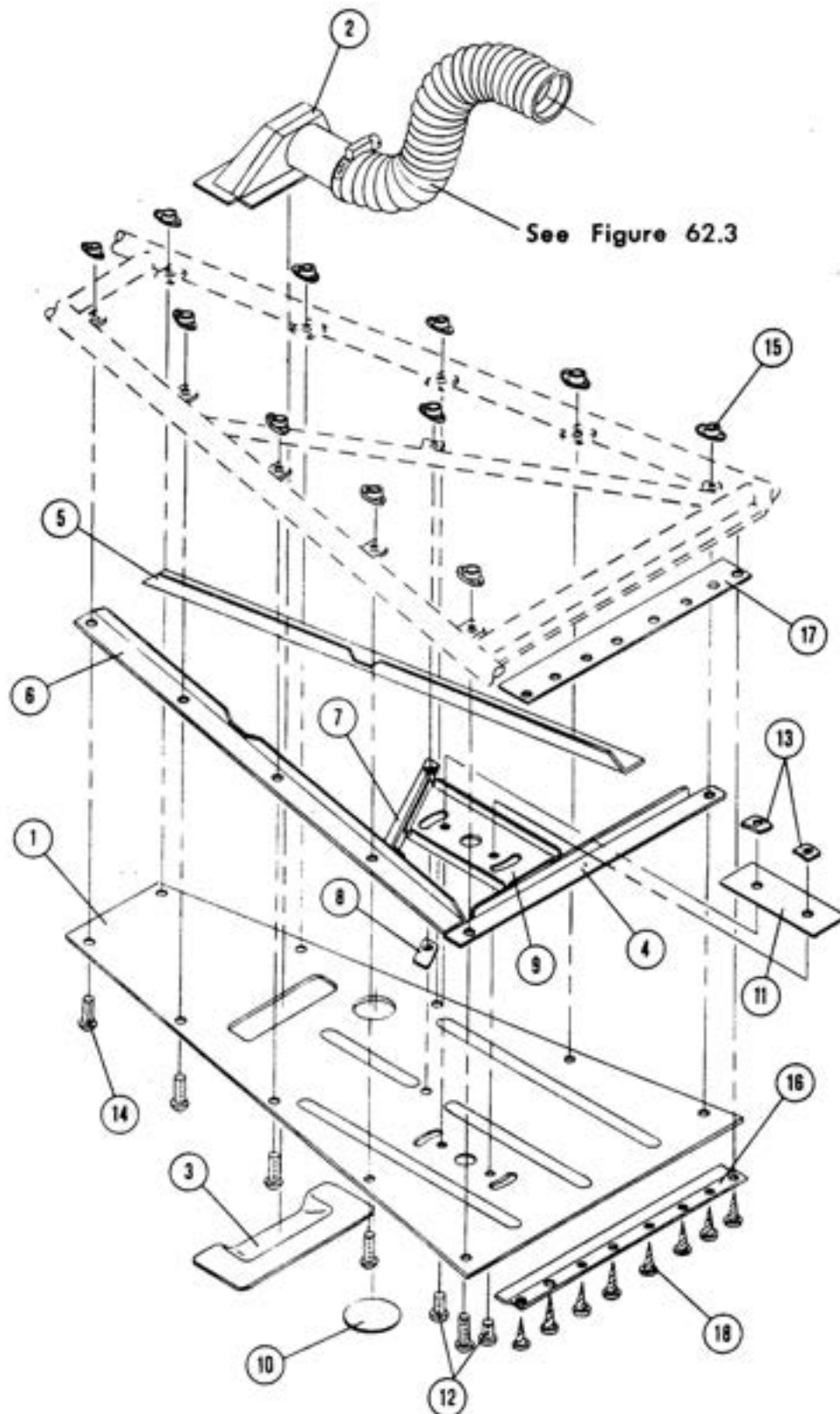


FIGURE 62.4 CABIN EXHAUST SYSTEM - AFT INSPECTION COVER



	FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
	62.4-		CABIN EXHAUST SYSTEM-AFT INSPECTION COVER		
		206149-40	Inspection Cover Assembly (Lower Aft)	-	D
	- 1	U206208-2	Cover	1	D
	- 2	206149-0	Adaptor Assembly	1	
	- 3	206141-1	Louver	1	
	- 4	206276-1	Brace	1	D
	- 5	U206266-1	Stiffener	1	
	- 6	U206266-2	Stiffener	1	
	- 7	206278-1	Brace	1	D
	- 8	206277-1	Shim	1	D
	- 9	U206279-1	Plate	1	D
		206211	Installation-Inspection Cover (Lower Aft)	-	
	-10	193109	Cover	1	
	-11	206198-1	Plate	1	
	-12	No. 8 x 1/2	Screw	2	
	-13	A1778-8Z-1	Nut, Tinnerman	2	
	-14	AN526-10R12	Screw	11	
		AN526-10-12	Screw (Alternate For AN526-10R12)	11	
	-15	MS21078-3	Nut Plate	11	
	-16	206210-1	Retainer	1	
	-17	206209-1	Retainer	1	
	-18	No. 4 x 3/8	Screw (P.K.)	8	
			D-This part or assembly is used on aircraft with serial numbers 76-30807 and up, 76-32-163 and up and 76-31123 and up. The 206149-30 assembly may be used as an alternate depending on the location of the loop antenna.		



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
47--		RUDDER CONTROL INSTALLATION		
- 1	195506-20	Cable Assembly, L/H	1	
- 2	195506-10	Cable Assembly, R/H	1	
- 3	AN23-11	Bolt, Clevis	1	D
- 4	AN960-416L	Washer	1	D
- 5	AN310-3	Nut	1	D
- 6	AN380-2-2	Cotter Pin	1	D
- 7	AN4-10	Bolt	1	E
- 8	AN960-416	Washer	2	E
- 9	AN310-4	Nut	1	E
-10	AN380-2-2	Cotter Pin	1	E
-11	AN3-4	Bolt	1	E
-12	195379	Nut	1	E
-13	AN380-2-2	Cotter Pin	1	E
-14	MS24566-3B	Pulley	1	E
-15	195376	Pulley Guard	1	E
-16	MS24566-3B	Pulley	1	
-17	195376	Pulley Guard	1	
-18	AN4-10	Bolt	1	
-19	AN960-416	Washer	2	
-20	AN310-4	Nut	1	
-21	AN380-2-2	Cotter Pin	1	
-22	AN3-4	Bolt	1	
-23	195379	Nut	1	
-24	AN380-2-2	Cotter Pin	1	
-25	40071-00	Fairlead	2	D
-26	MS24566-3B	Pulley	2	
		CONTINUED ON NEXT PAGE		
		D - This item typical two places as shown.		
		E - This item typical four places as shown.		

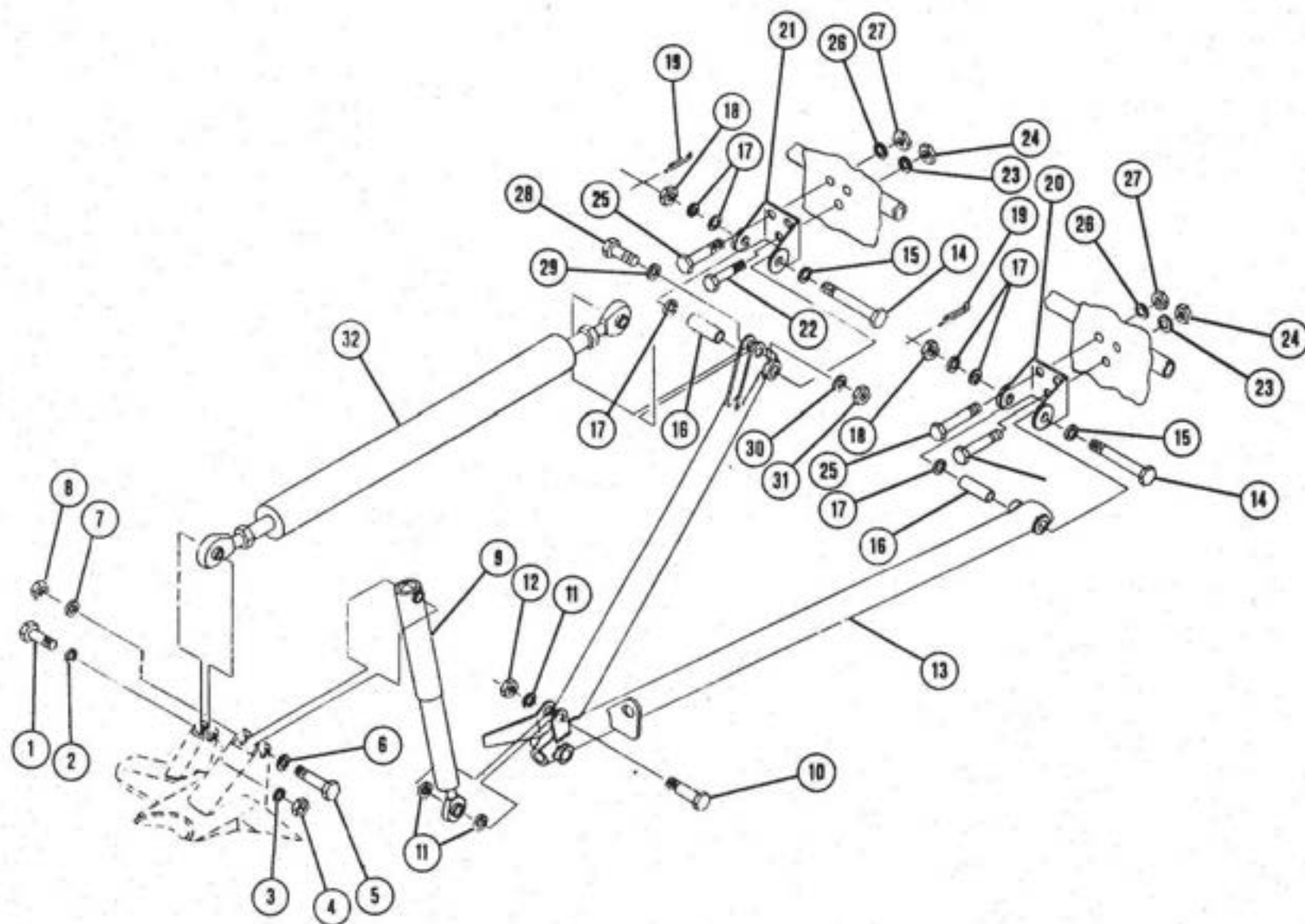


FIGURE 53.4 NOSE GEAR INSTALLATION - CYLINDER AND UPPER DRAG STRUT



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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY,	CODE	
53.3-					
-28	194409-1	Bearing	2	A	
-29	194409-2	Bearing	2	A	
-30	U194425-1	Hinge	1	A	
-31	MS24693-S274	Screw	3	A	
-32	AN960-10	Washer	3	A	
-33	MS20365-1032	Nut	3	A	
			^		



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
53.3-		NOSE GEAR DOOR INSTALLATION		
	194422	Installation - Nose Gear Door		A
- 1	194420-20	Upper Door Assembly	1	A
- 2	AN3-4	Bolt	2	A
- 3	198004-166	Bushing	2	A
- 4	AN960-10	Washer	4	A
- 5	AN310-3	Nut	2	A
- 6	MS24665-132	Cotter	2	A
- 7	ANA-7	Bolt	2	A
- 8	AN960-416	Washer	4	A
- 9	AN310-4	Nut	2	A
-10	MS24665-132	Cotter Pin	2	A
	194421-20	Actuator Rod Assembly	2	A
-11	194421-10	Actuator Rod	2	A
-12	AN316-4	Nut	4	A
-13	194233-1	Bearing	4	A
-14	194428-1	Placard	1	A
-15	AN4-34	Bolt	1	A
-16	AN960-416	Washer	2	A
-17	AN960-416L	Washer	2	A
-18	198004-167	Bushing	2	A
-19	AN310-4	Nut	1	A
-20	MS24665-132	Cotter Pin	1	A
-21	194417-0	Lower Door Assembly	1	A
-22	194413-0	Spring	1	A
-23	194427-0	Bracket	1	A
-24	AN526-8-8	Screw	4	A
-25	AN3-18A	Bolt	4	A
-26	AN936A3	Washer	4	A
-27	194369	Fitting	2	A
		CONTINUED ON NEXT PAGE		

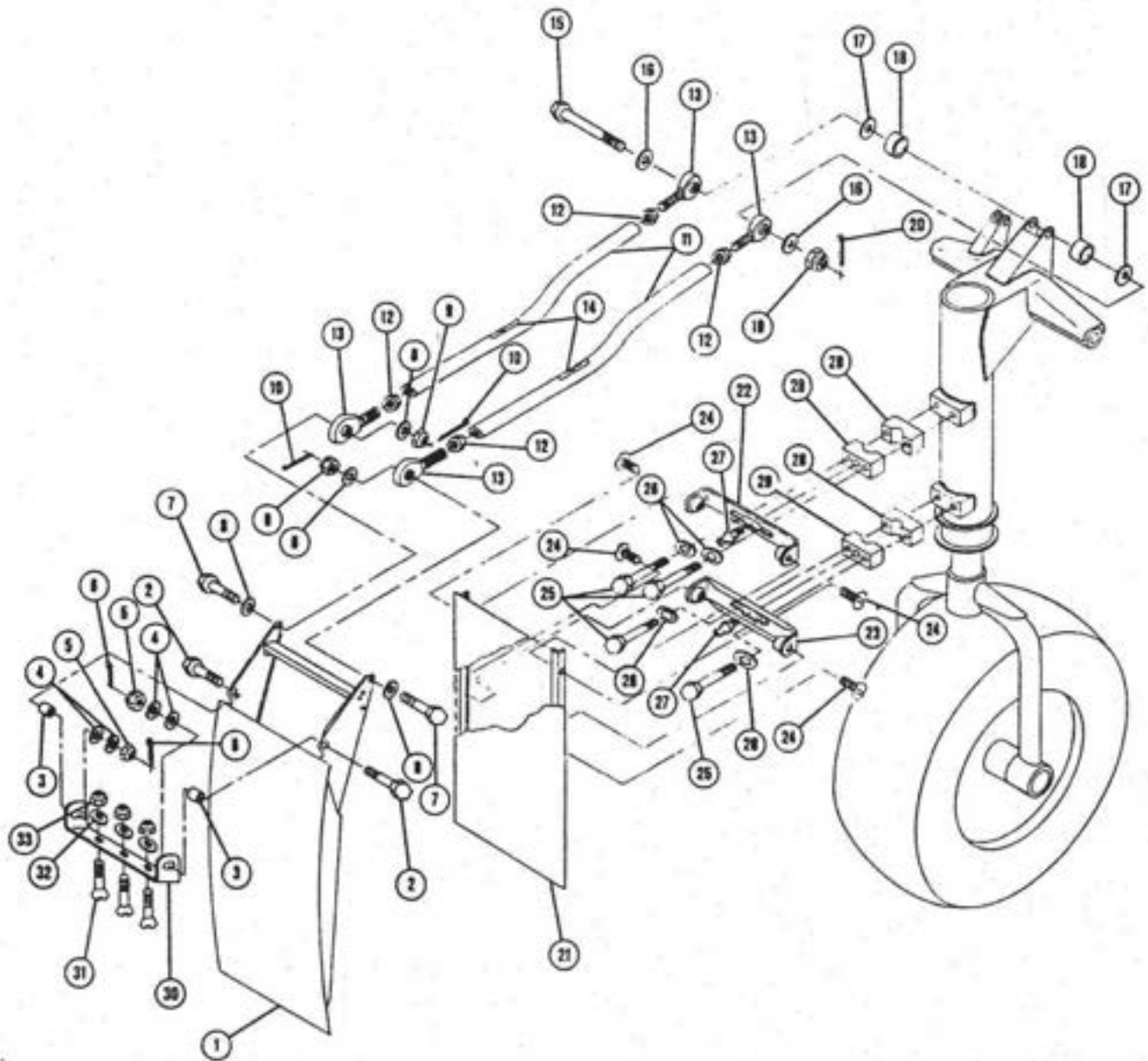


FIGURE 53.3 NOSE GEAR DOOR INSTALLATION

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
53.2-				
-48	--	Tube, 15 x 6.00-6	1	A
-49		Tire, 15 x 6.00-6, Type VI, 6 or 8 Ply Rating	1	A
-50	40-76C	Wheel assembly	1	A
-51	194165	Spacer	2	A

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FIGURE AND INDEX:.,, O,	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
53.2-				
-24	AN6-30	Bolt	2	A
-25	AN960-616	Washer	4	A
-26	AN310-6	Nut	3	A
-27	MS24665-134	Cotter P I n	3	A
-28	19404-3	Bolt	1	A
-29	AN960-616	Washer	A/R	A
-30	AN960-616L	Washer	A/R	A
-31	198004-60	Bushing	2	A,F
-32	198004-61	Bushing	4	A,F
-33	198004-138	Bushing	2	A
-34	194410-0	Torque Tube Msembly	1	A,E
-35	198004-162	Bushing	1	A
	194412-0	Steering Link Assembly	1	A
-36	194412-1	Link	1	A
-37	198004-164	Bushing	1	A
-38	AN3-11	Bolt	1	A
-39	AN3-7	Bolt	1	A
-40	AN310-3	Nut	2	A
-41	AN960-10	Washer	4	A
-42	MS24665-132	Cotter Pin	2	A
-43	194157	Axle	1	A
-44	194187	Spacer	2	A
-45	194160	B o l t	1	A
-46	AN960-616L	Washer	2	A
-47	MS20365-624	Nut	2	A
CONTINUED ON NEXT PAGE				
E-A11 parts of this assembly not listed:				
F-198004-60 and 198004-61 bushings are included when 194209-10 is ordered.				



FIGURE AND INDEX No.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
53.2-		NOSE GEAR INSTALLATION		
	194415-0	Installation - Nose Landing Gear	-	A,D
- 1	194414-0	Nose Gear Assembly	1	A
- 2	19404-1	Bolt	1	A
- 3	AN310-7	Nut	2	A
- 4	MS24665-283	Cotter Pin	2	A
- 5	AN960-716L	Washer	2	A
- 6	1468A6	Tank Valve	1	A
- 7	194389-0	Drag Strut, Lower	1	A
- 8	AN5-42	Bolt	2	A
- 9	AN960-516	Washer	4	A
-10	AN960-516L	Washer	6	A
-1	AN310-5	Nut	2	A
-12	MS24665-132	Cotter Pin	2	A
-13	198004-142	Bushing	1	A
-14	198004-87	Bushing	4	A
-15	194411-0	Steering Collar Assembly	1	A
-16	19453-3	Brake Lining	2	A
-17	AN4-16A	Bolt	2	A
-18	AN960-416	Washer	A/R	A
-19	AN960-416L	Washer	A/R	A
-20	MS20365-428	Nut	2	A
-21	196879	Placard	1	A
-22	1637B1	Fitting, Lubricator	1	A
-23	194209-10	Nutcracker Assembly	2	A,F
		CONTINUED ON NEXT PAGE		
		D-Used on aircraft Serial Number 76-30797 and up. included when 194209-10 is ordered.		

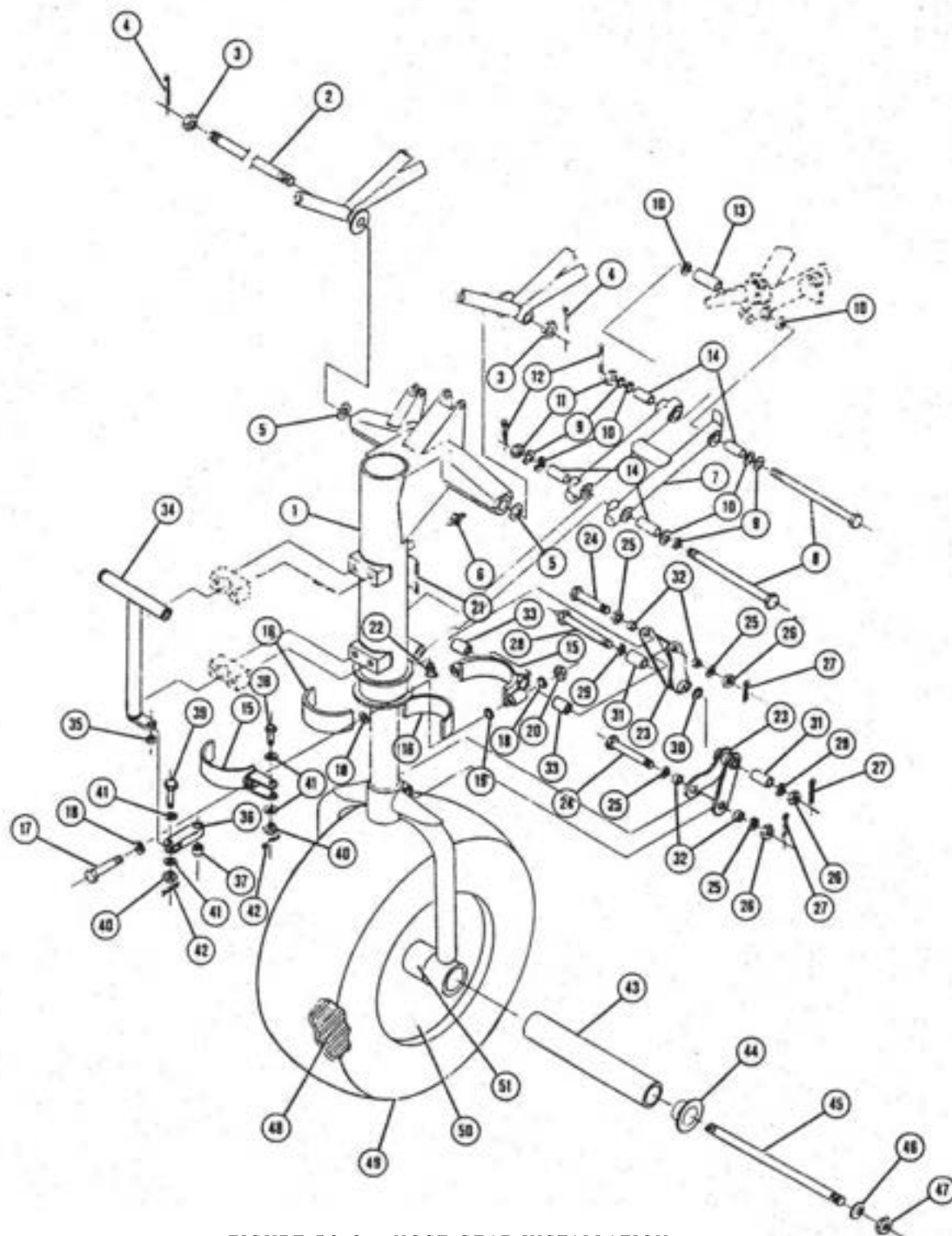


FIGURE 53.2 NOSE GEAR INSTALLATION

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<i>FIGURE AND INDEX NO.</i>	<i>PART NUMBER</i>	<i>DESCRIPTION</i>	<i>UNITS PER ASST.</i>	<i>CODE</i>
53.1-				
-26	AN960-416	Washer	6	B,C
-27	AN960-416L	Washer	2	B,C
-28	MS20365-428	Nut	2	B,C
-29	196879	Placard	1	B,C
-30	194209-10	Nutcracker Assembly	2	B,C
-31	AN6-30	Bolt	2	B,C
-32	AN960-616	Washer	4	B,C
-33	198004-61	Bushing	4	B,C
-34	AN310-6	Nut	2	B,C
-35	MS24665-283	Cotter Pin	2	B,C
-36	198004-138	Bushing	2	B,C
-37	19404-3	Bolt	1	B,C
-38	AN960-616	Washer	A/R.	B,C
-39	198004-60	Bushing	2	B,C
-40	AN960-616L	Washer	A/R	B,C
-41	AN310-6	Nut	1	B,C
-42	MS24665-283	Cotter Pin	1	B,C
-43		Tube, 15 x 6.00-6	1	B,C
-44		Tire, 15 x 6.00-6, Type VI, 6 or 8 Ply Rating.	1	B,C
-45	40-76C	Wheel Assembly	1	B,C
-46	194165	Spacer	2	B,C
-47	194157	Axle	1	B,C
-48	194187	Spacer	2	B,C
-49	194160	Bolt	1	B,C
-50	AN960-616L	Washer	2	B,C
-51	MS20365-624	Nut	2	B,C



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
53.1-		NOSE GEAR INSTAL ATION		
	194391	Installation - Nose Landing		B,C,D
- 1	194344	Nose Gear Assembly	1	B,C
- 2	19404-1	Bolt	1	B,C
- 3	AN310-7	Nut	2	B,C
- 4	MS24665-283	Cotter Pin	2	B,C
- 5	AN960-716L	Washer	2	B,C
- 6	194389-0	Drag Strut, Lower	1	B,C
- 7	AN5-42	Bolt	2	B,C
- 8	AN960-516	Washer	6	B,C
- 9	AN960-516L	Washer	4	B,C
-10	198004-87	Bushing	4	B,C
-11	AN310-5	Nut	2	B,C
-12	MS24665-132	Cotter Pin	2	B,C
-13	198004-142	Bushing	1	B,C
-14	19453-30	Steering Collar, Front	1	B,C
-15	19453-20	Steering Collar, Rear	1	B,C
-16	194186	Swivel	2	B,C
-17	AN6-57	Bolt	1	B,C
-18	AN960-616	Washer	3	B,C
-19	AN960-616L	Washer	1	B,C
-20	AN310-6	Nut	1	B,C
-21	MS24665-283	Cotter Pin	1	B,C
-22	19453-3	Brake Lining	2	B,C
-23	100836	Fitting Lubricator	1	B,C
-24	1468A6	Tank Valve	1	B,C
-25	AN4-16A	Bolt	2	B,C
CONTINUED ON NEXT PAGE				
D-This installation used on aircraft Serial Numbers 75-30727 through 75-30796, 75-32-145 and up, 76-32-162 and up, 75-31108 and up and 76-31121 and up.				

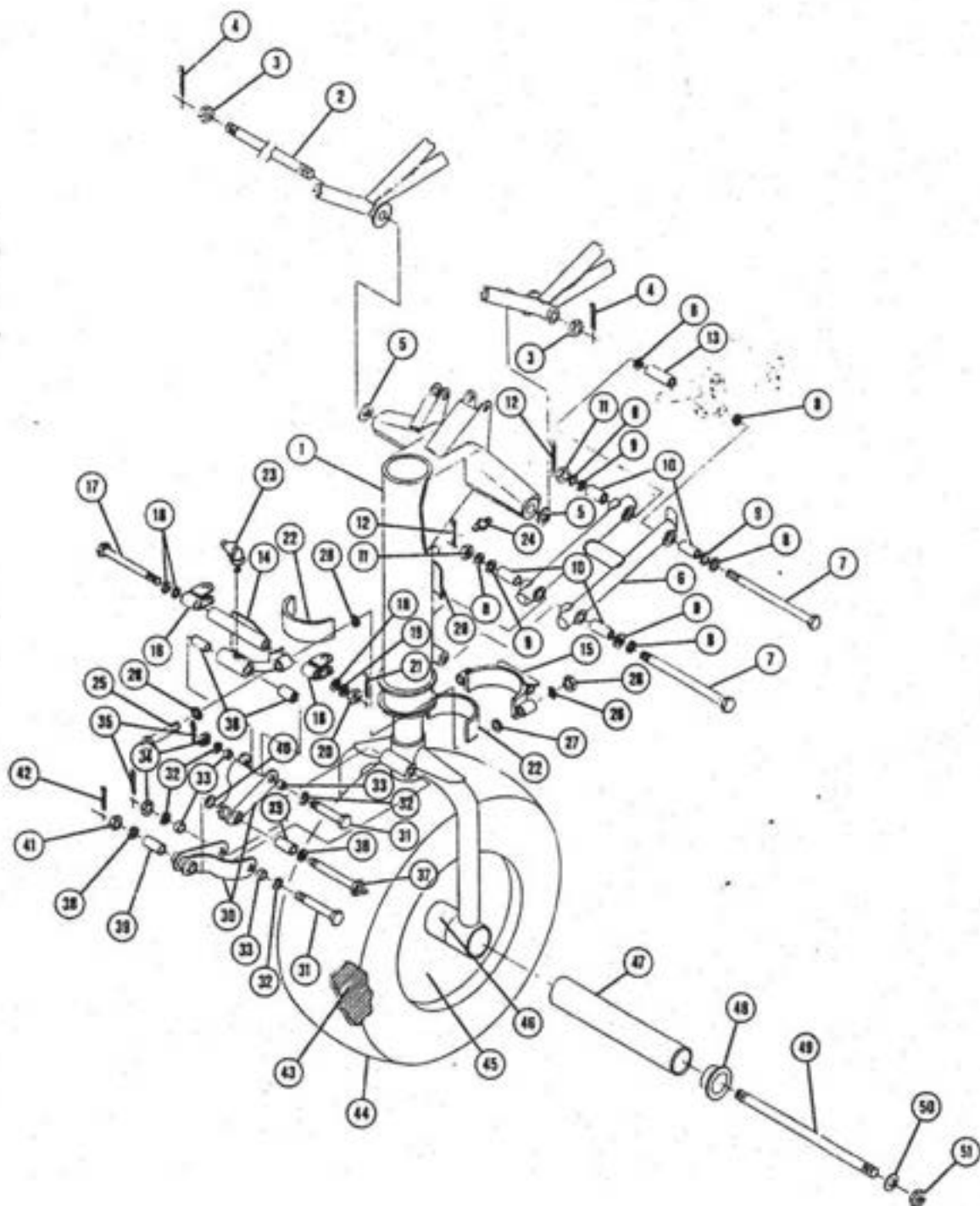


FIGURE 53.1 NOSE GEAR INSTALLATION

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE.
52.3-		FLAP HARDWARE		
- 1	192124	Hinge	2	
- 2	AN23-14	Bolt - Clevis	2	
3	192141	Bushing Spacer	2	
- 4	AN960-10	Washer	5	
5	AN310-3	Nut	4	
- 6	AN380-2-2	Cotter Pin	6	
- 7	192176-10	Hinge	2	
- 8	AN3-7A	Bolt	5	
- 9	AN366F-1032	Nut Plate	5	
-10	AN23-11	Bolt - Clevis	2	
-11	192176-2	Bushing - Spacer	2	
-12	192585	Spring	2	
-13	AN42-23A	Eye - Bolt	2	
-14	AN365-1032	Nut	2	
-15	192713-2	Horn	1	
-16	19246-6	Filler Block	2	
-17	19229-6	Hinge	4	
-18	AN3-16A	Bolt	3	
-19	AN970-3	Washer	3	
-20	198004-11	Bushing	3	
-21	AN4-6	Bolt	2	
-22	AN960-416	Washer	2	
-23	AN310-4	Nut	2	
-24	AN3-17A	Bolt	3	
-25	192176-4	Bracket	2	
-26	192530	Fitting	1R1/ 1	

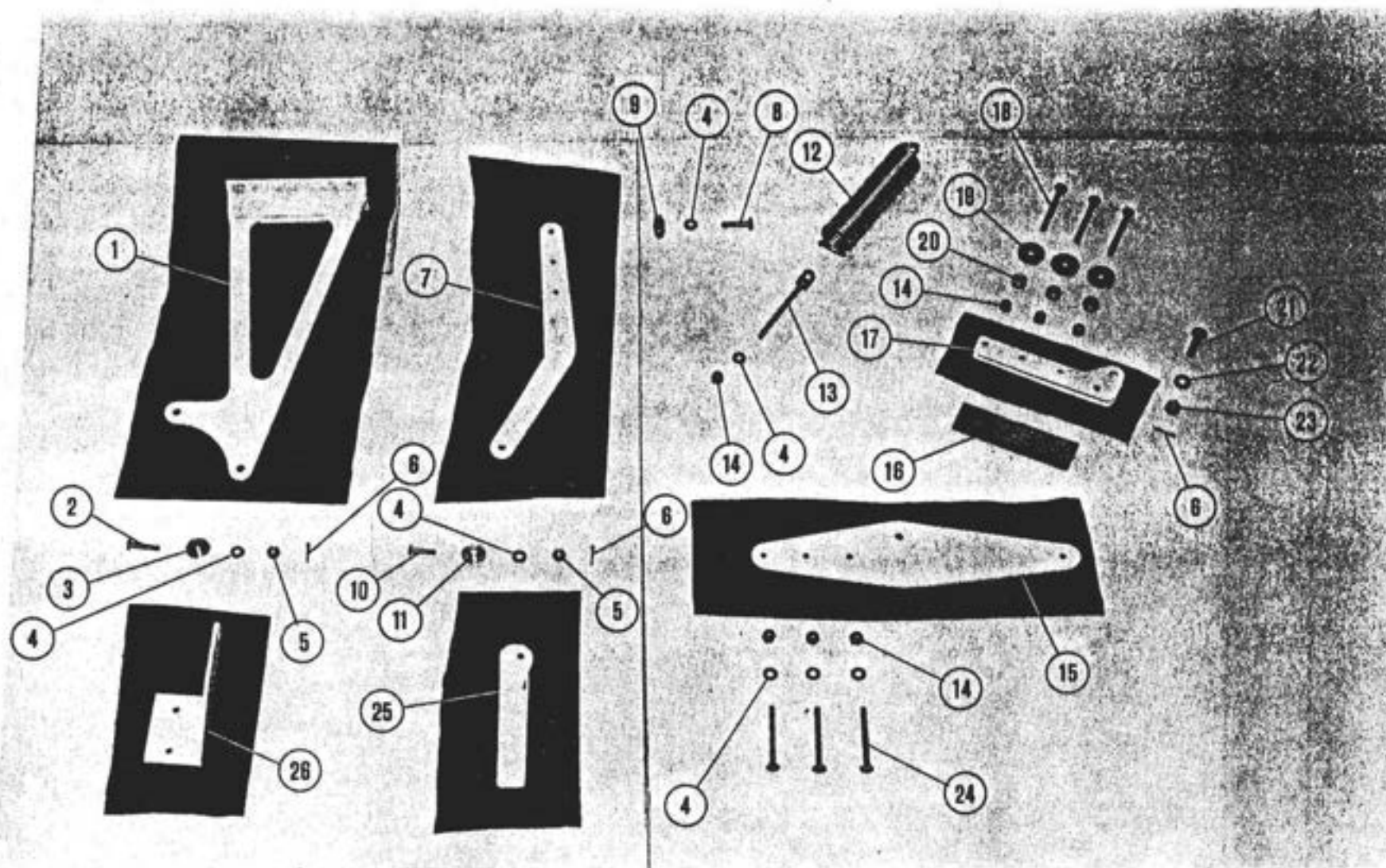
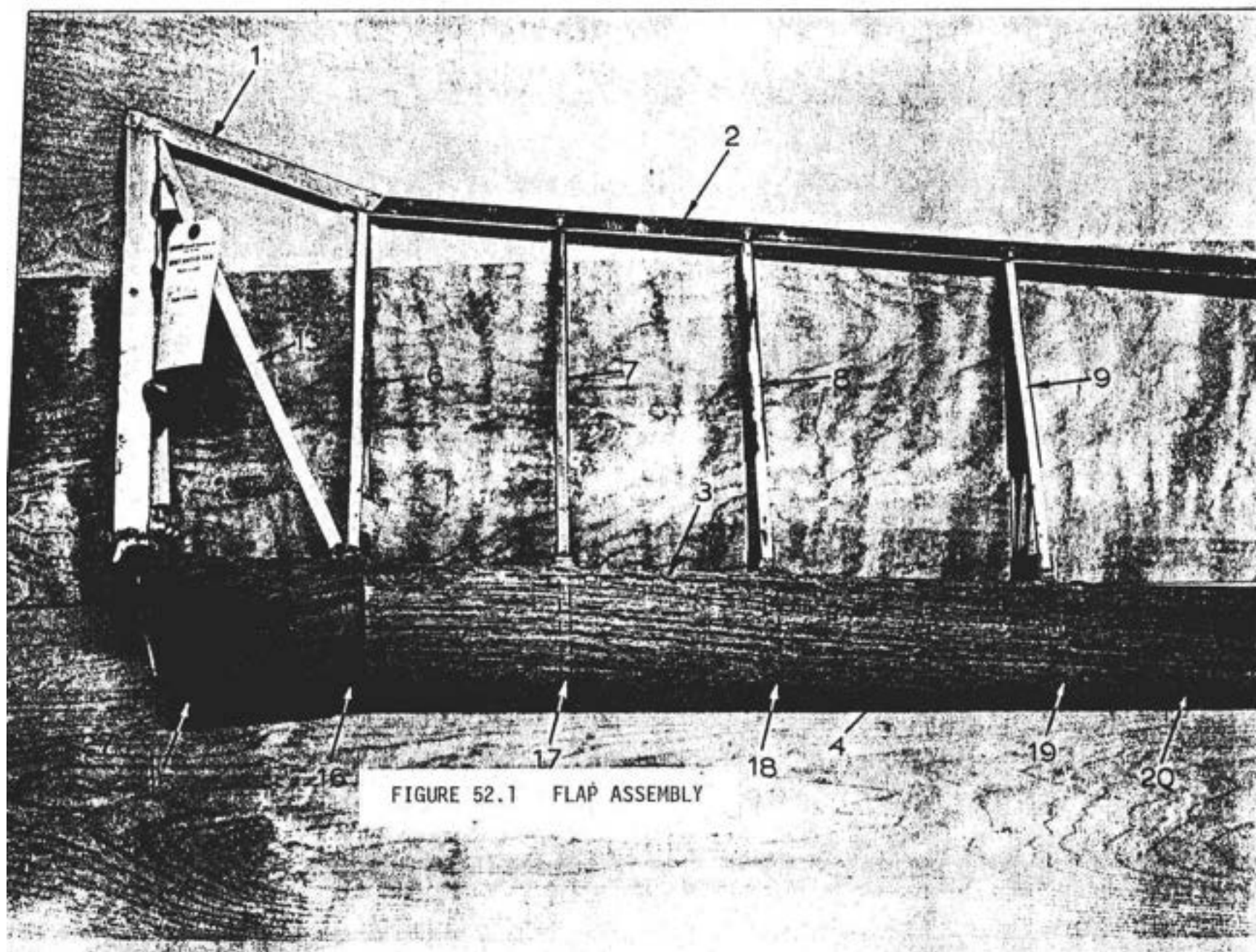


FIGURE 52.3 FLAP HARDWARE

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
52.1-				
52.2-		FLAP ASSEMBLY		
	19246	Flap Assembly - Complete	-	
- 1	19246-14	Trailing Edge	1	
2	19246-13	Trailing Edge	1	
- 3	192177-10	Spar, Left Hand	1	
	192177-0	Spar, Right	1	
- 4	19246-15	Skin Leading Edge	1	
- 5	19257	Rib No. 1	1	
- 6	192178	Rib No. 2	1	
- 7	192179	Rib No. 3	1	
- 8	192180	Rib No. 4	1	
- 9	192181	Rib No. 5	1	
-10	192182	Rib No. 6	1	
-11	192183	Rib No. 7	1	
-12	19264	Rib No. 8	1	
-13	19246-4	Brace, Inboard	1	
-14	19246-5	Brace, Outboard	1	
-15	19257-9	Nose Rib No. 1	1	
-16	192178-1	Nose Rib No. 2	1	
-17	192179-1	Nose Rib No. 3	1	
-18	192180-1	Nose Rib No. 4	1	
-19	192181-1	Nose Rib No. 5	1	
-20	192184-1	Intermediate Rib No. 5A	1	
-21	192182-1	Nose Rib No. 6	1	
-22	192184-2	Intermediate Rib No. 6A	1	
-23	192183-1	Nose Rib No. 7	1	
-24	192184-3	Intermediate Rib No. 7A	1	
CONTINUED ON NEXT PAGE				



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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
51-		FLAP MOTOR ASSEMBLY		
- 1	1050569	Transmission Assembly	1	
- 2	192671-1	Placard	1	
- 3	M0721082A	Motor	1	
- 4	192557	Plate	1	
- 5	11918-E	Coupling	1	
6	192560	Spring	1	
- 7	A420-061715-0	Brake	1	
- 8	192556	Support Strap	1	
9	192553	Support Rod	1	
-10	MS20341-65	Nut	4	
-11	MS203 1-8S	Nut	1	
-12	AN515-6R4	Screw	2	
-13	AN935-6	Washer	2	
-14	MS20365-1032	Nut	2	
-15	AN960-10	Washer	2	

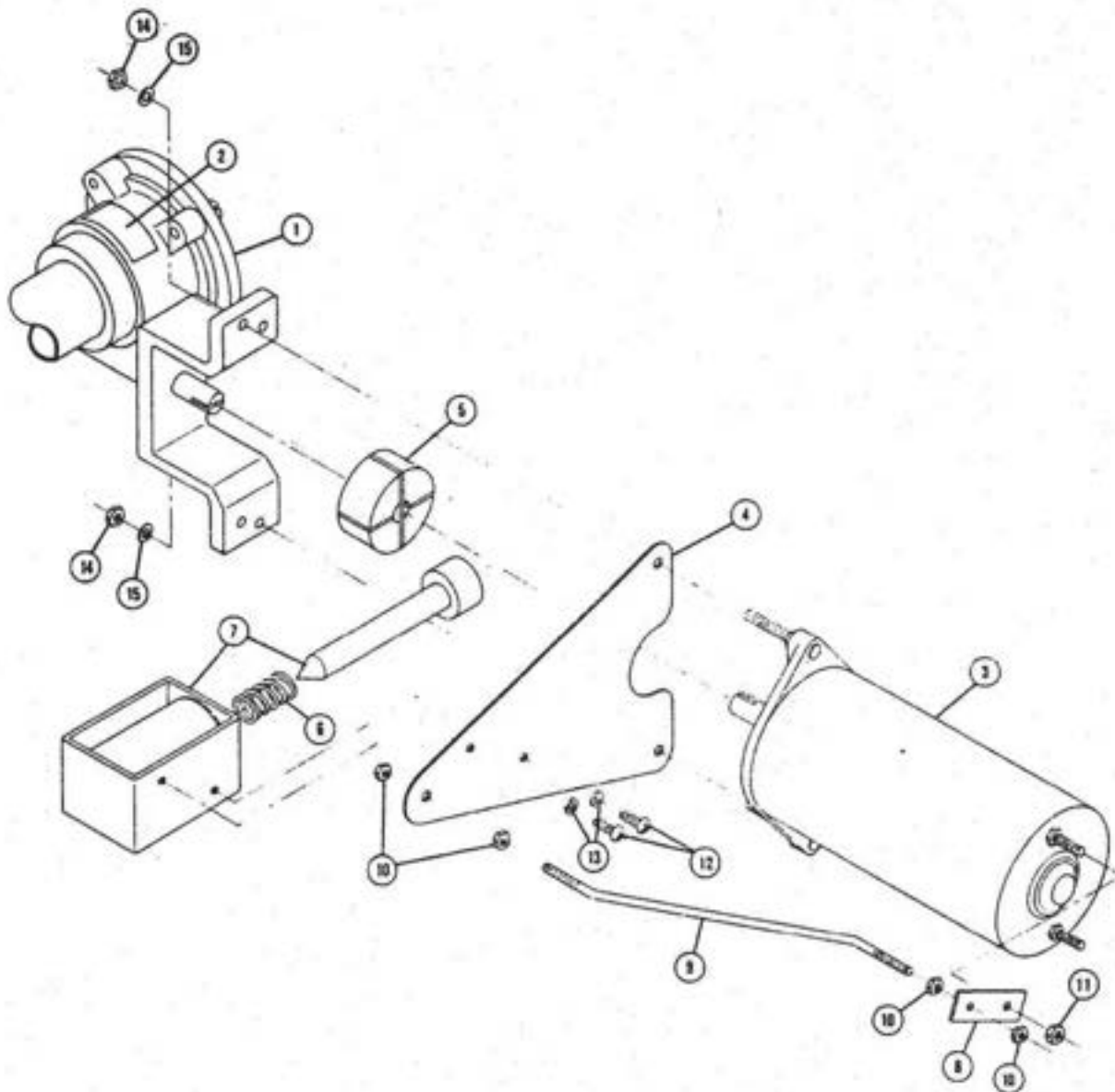


FIGURE 51. FLAP MOTOR ASSEMBLY

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
50-				
-82	AN3-6	Bolt	1	D
-83	AN960-10	Washer	1	D
-84	AN310-3	Nut	1	D
-85	AN380-2-2	Cotter Pin	1	D
-86	192528 L/H	Bracket, L/H1	1 L/H	
	192528 R/H	Bracket, R/H	1 R/H	
-87	195649-1	Bracket	1	
-88	AN3-5	Bolt	1	
-89	AN960-10	Washer	1	
-90	AN960-10L	Washer	2	
-91	AN310-3	Nut	1	
-92	AN380-2-2	Cotter Pin	1	
D - This item typical two places as shown.				



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY,	CODE
50-				
-57	196776	Bracket	1	
-58	AN515-4-12	Screw	2	
-59	AN960-4L	Washer	4	
-60	MS20365-440	Nut	2	
	V3-1-08	Switch	1	
	JV-7	Actuator	1	
-62	AN3-6	Bolt	1	
-63	AN960-10	Washer	3	
-64	AN960-10L	Washer	1	
-65	AN310-3	Nut	1	
-66	AN380-2-2	Cotter Pin	1	
-67	195598-10	Cable Assembly	1	
-68	MS21251-B3S	Turnbuckle Body	1	
-69	195598-30	Cable Assembly	1	
-70	AN23-10	Bolt, Clevis	1	
-71	AN960-10L	Washer	1	D
-72	AN960-10	Washer	1	D
-73	AN310-3	Nut	1	D
-74	AN380-2-2	Cotter Pin	1	D
-75	MS24566-2B	Pulley	1	D
-76	AN3-6	Bolt	1	D
-77	AN960-10	Washer	1	D
-78	AN310-3	Nut	1	D
-79	AN380-2-2	Cotter Pin	1	D
-80	AN380-3-2	Cotter Pin	1	D
-81	195369	Pulley Guard	1	D
CONTINUED ON NEXT PAGE				
D - This item typical two places as shown.				



50-				
-29	SAS-4201	Relay	1	
-30	AN4-5A	Bolt	2	
-31	AN960-416L	Washer	4	
-32	MS20365-428	Nut	2	
-33	195598-30	Cable Assembly	1	
-34	MS21251-B3S	Turnbuckle Body	1	
-35	195598-20	Cable Assembly	1	
-36	AN3-5	Bolt	1	
-37	AN960-10	Washer	1	
-38	AN960-10L	Washer	1	
-39	AN310-3	Nut	1	
-40	AN380-2-2	Cotter Pin	1	
-41	AN515-4-12	Screw	2	
-42	AN960-4L	Washer	4	
-43	MS20365-440	Nut	2	
-44	V3-1-D8	Switch	1	
	JV-7	Actuator	1	
-45	AN515-4-6	Screw	2	
-46	AN960-4	Washer	4	
-47	MS20365-440	Nut	2	
-48	196782	Bracket	1	
-49	AN515-4-18	Screw	2	
-50	AN960-4	Washer	4	
-51	AN365-440	Nut	2	
-52	V3L-103-D8	Switch	1	
-53	V3L-111-D8	Switch	1	
-54	AN515-4-6	Screw	2	
-55	AN960-4	Washer	4	
-56	MS20365-440	Nut	2	
CONTINUED ON NEXT PAGE				

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
50-		FLAP CONTROL SYSTEM INSTALLATION		
- 1	192551	Flap Motor Assembly	1	
- 2	192555-2	Tube	1	
- 3	198004-58	Bushing	1	
- 4	AN4-16A	Bolt	1	
- 5	AN960-416L	Washer	2	
- 6	MS20365-428	Nut	1	
- 7	AN6-15A	Bolt	1	
- 8	AN960-616	Washer	1	
- 9	MS20365-624	Nut	1	
-10	192554	Sleeve	1	
-11	198004-58	Bushing	1	
-12	AN4-17A	Bolt	1	
-13	AN960-416L	Washer	2	
-14	AN960-416	Washer	2	
-15	MS20365-428	Nut	1	
-16	AN3-5A	Bolt	2	
-17	AN960-10L	Washer	2	
-18	MS20365-1032	Nut	2	
-19	192552	Bellcrank Assembly	1	
-20	198004-119	B u s h i n g	1	
-21	AN4-31A	Bolt	1	
-22	AN960-416	Washer	2	
-23	MS20365-428	Nut	1	
-24	192649	Stiffener	1	
-25	AN4-25A	Bolt	1	
-26	AN960-416	Washer	2	
-27	MS20365-428	Nut	1	
-28	MS20219-2	Pulley	1	
		CONTINUED ON NEXT PAGE		

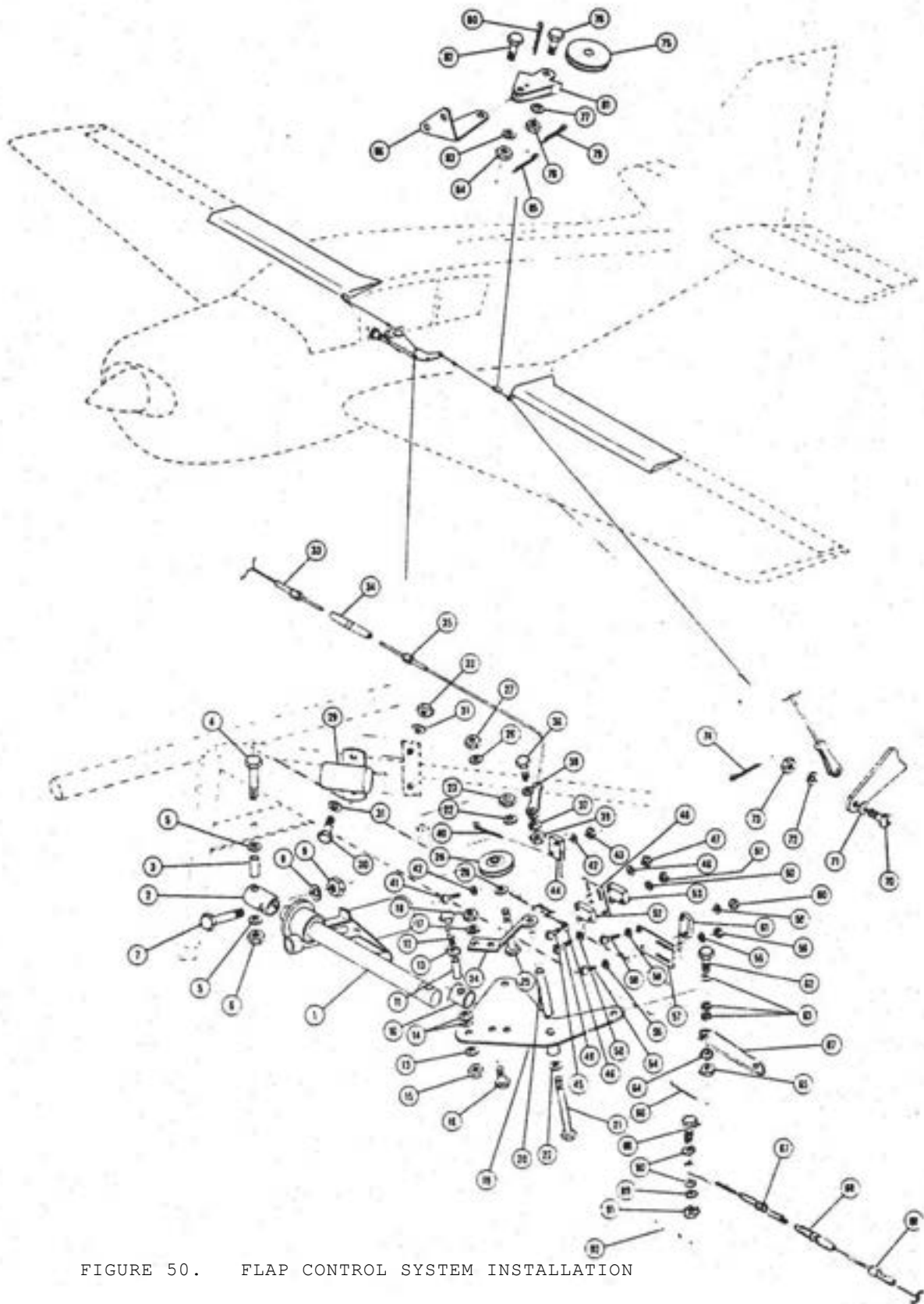


FIGURE 50. FLAP CONTROL SYSTEM INSTALLATION

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FIGURE AND INDEX O.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
49.-				
-22	194192-10	Boot	1	D
-23	190214-2	Plate - Right Side	1	
	190214-4	Plate - Left Side	1	
-24	AN520-10-10	Screw	9	
-25	AN960-10L	Washer	9	
-26	QS200-M10S	Clamp	1	
D - This item is typical two places as, shown.				



FIGURE AND INDEX N O.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
49.		STEERING ROD INSTALLATION		
	194193	Installation-Nose Gear Steerable Rods		E
	194416	Installation-Nose Gear Steering Rods		F
	194189-10	Upper Steering Rod - Right Side	1	
	194189-20	Upper Steering Rod - Left Side	1	
- 2	194191-0	Adaptor	1	D
- 3	AN23-11	Bolt, Clevis	1	D
- 4	AN960-10	Washer	1	D
- 5	AN960-10L	Washer	1	D
- 6	AN310-3	Nut	1	D
- 7	AN380-2-2	Cotter Pin	1	D
- 8	AN3-10A	Bolt	1	D
- 9	AN960-10	Washer	1	D
-10	S2 365-1032	Nut	1	D
-11	194233-1	Bearing, Rod End	1	D,E
-12	AN316-4	Nut	1	D,E
-13	194188-60	Steering Rod, Lower	1	D,E
-14	AN4-10A	Bolt	1	D,E
-15	MS20365-428	Nut	1	D,E
-16	194188-30	Steering Rod, Lower	1	D,F
-17	AN316-4	Nut	1	D,F
-18	194424-1	Bearing, Rod End	1	D,F
-19	198004-165	Bushing	2	D,F
-20	NAS 509-4	Nut	1	D,F
-21	194423-1	Bolt	1	D,F
		CONTINUED ON NEXT PAGE		
		D - This Item is typical two places as shown Used on aircraft through Serial No, 75-30796, 75-32-161 and 75-31120.		
		F - Used on aircraft with Serial No. 76-30797 and up, 76-32-162 and up and 76-31121 and up.		

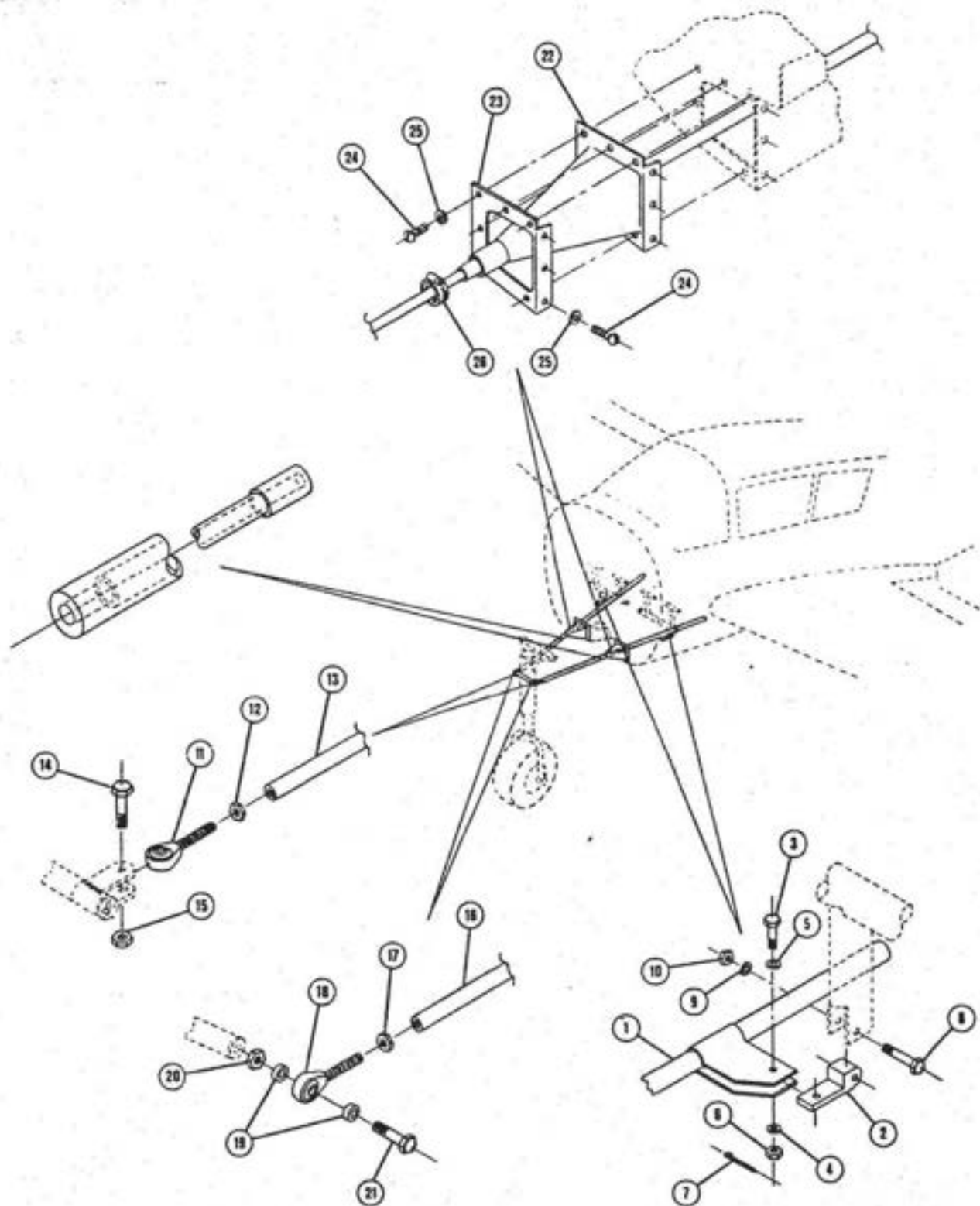


FIGURE 49. STEERING ROD INSTALLATION

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
48-		RUDDER ASSEMBLY		
	193102-30	Rudder Assembly	1	
- 1	193102-13	Rib	1	
- 2	193102-12	Rib	1	
- 3	193102-24	Trailing Edge Tube	1	
- 4	A3456	Bracket	1	
- 5	193102-11	Rib	1	
- 6	193102-25	Trailing Edge Tube	1	
- 7	193102-9	Rib	1	
- 8	193102-8	Rib	1	
- 9	193102-7	Rib	1	
-10	193102-6	Rib	1	
-11	193102-5	Rib	1	
-12	193102-3	Top Tube	1	
-13	193102-4 .	Diagonal	1	
-14	193102-19	Balance Weight	1	
-15	No. 6 x 5/8	P.K. Screw Type 2	2	
-16	193102-22	Clip	1	
-17	193102-1	Leading Edge Tube	1	
-18	198005-1	Hinge	3	
-19	193102-10	Rudder Horn Assembly	1	
-20	198007-6	End Plate	1	

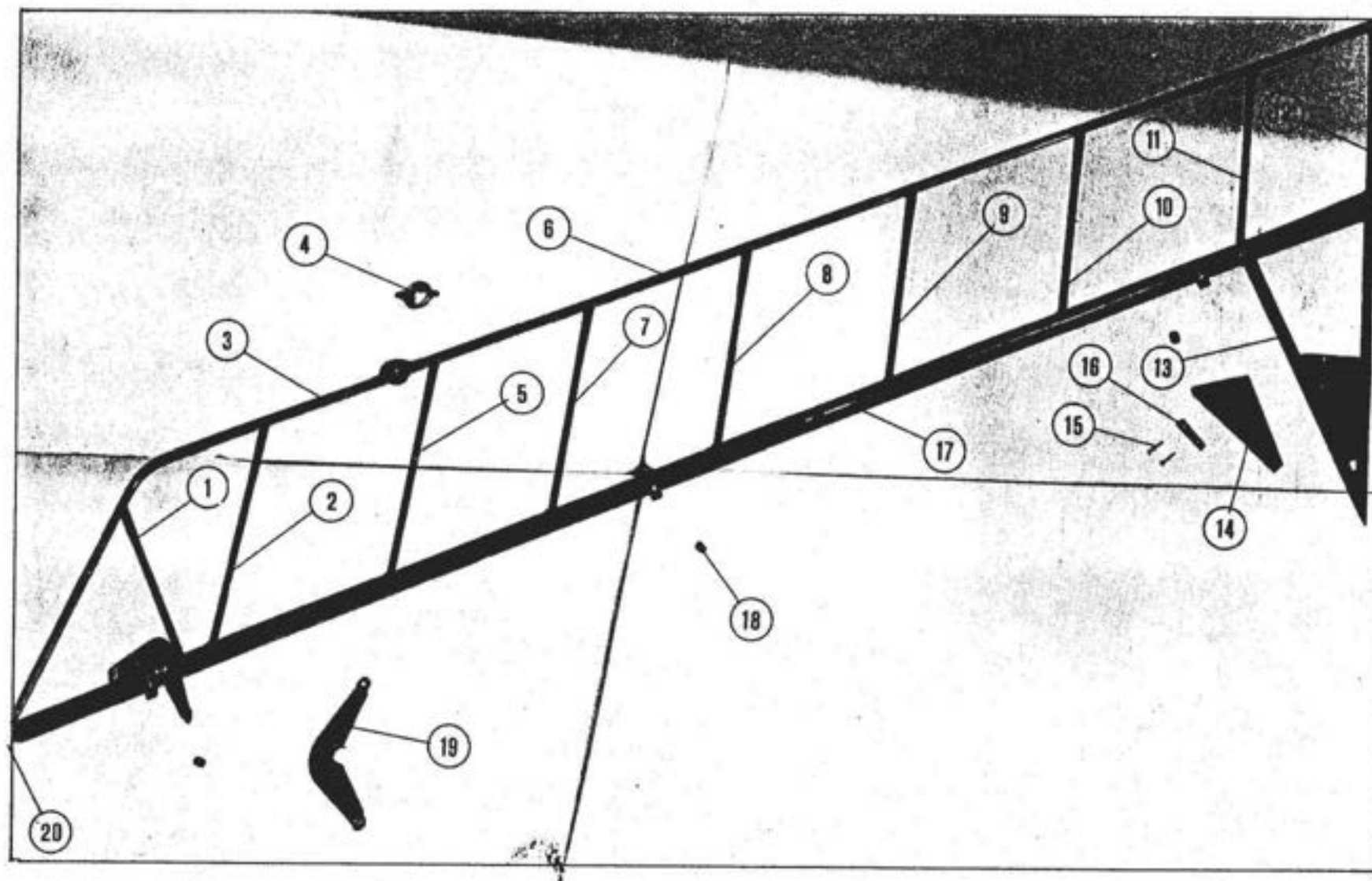


FIGURE 48. RUDDER ASSEMBLY

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FIGURE AND INDEX O.	PART NUMBER	DESCRIPTION	UNITS PER ASST.	CODE
47-				
-27	195376	Pulley Guard	2	
-28	AN4-10	Bolt	2	
-29	AN960-416	Washer	4	
-30	AN310-4	Nut	2	
-31	AN380-2-2	Cotter Pin	2	
-32	AN3-4	Bolt	2	
-33	195379	N u t	2	
-34	AN380-2-2	Cotter Pin	2	
-35	AN23-11	Bolt, Clevis	1	
-36	AN960-416	Washer	1	
-37	AN310-3	Nut	1	
-38	AN380-2-2	Cotter Pin	1	
-39	195621	Link	2	
-40	AN23-11	Bolt, Clevis	1	
-41	AN960-10L	Washer	1	
-42	AN310-3	Nut	1	
-43	AN380-2-2	Cotter Pin	1	
-44	AN24-11	Bolt, Clevis	1	
-45	AN960-416L	Washer	1	
-46	AN310-4	Nut	1	
-47	AN380-2-2	Cotter Pin	1	



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
47-		RUDDER CONTROL INSTALLATION		
1	195506-20	Cable Assembly, L/H	1	
- 2	195506-10	Cable Assembly, R/H	1	
- 3	AN23-11	Bolt, Clevis	1	D
- 4	AN960-416L	Washer	1	D
- 5	AN310-3	Nut	1	D
- 6	AN380-2-2	Cotter Pin	1	D
- 7	AN4-10	Bolt	1	E
- 8	AN960-416	Washer	2	E
- 9	AN310-4	Nut	1	E
-10	AN380-2-2	Cotter Pin	1	E
-11	AN3-4	Bolt	1	E
-12	195379	Nut	1	E
-13	AN380-2-2	Cotter Pin	1	E
-14	MS24566-3B	Pulley	1	E
-15	195376	Pulley Guard	1	E
-16	MS24566-3B	Pulley	1	
-17	195376	Pulley Guard	1	
-18	AN4-10	Bolt	1	
-19	AN960-416	Washer	2	
-20	AN310-4	Nut	1	
-21	AN380-2-2	Cotter Pin	1	
-22	AN3-4	Bolt	1	
-23	195379	Nut	1	
-24	AN380-2-2	Cotter Pin	1	
-25	40071-00	Fairlead	2	D
-26	MS24566-3B	Pulley	2	
CONTINUED ON NEXT PAGE				
D- This item typical two places as shown.				
E - This item typical four places as shown.				

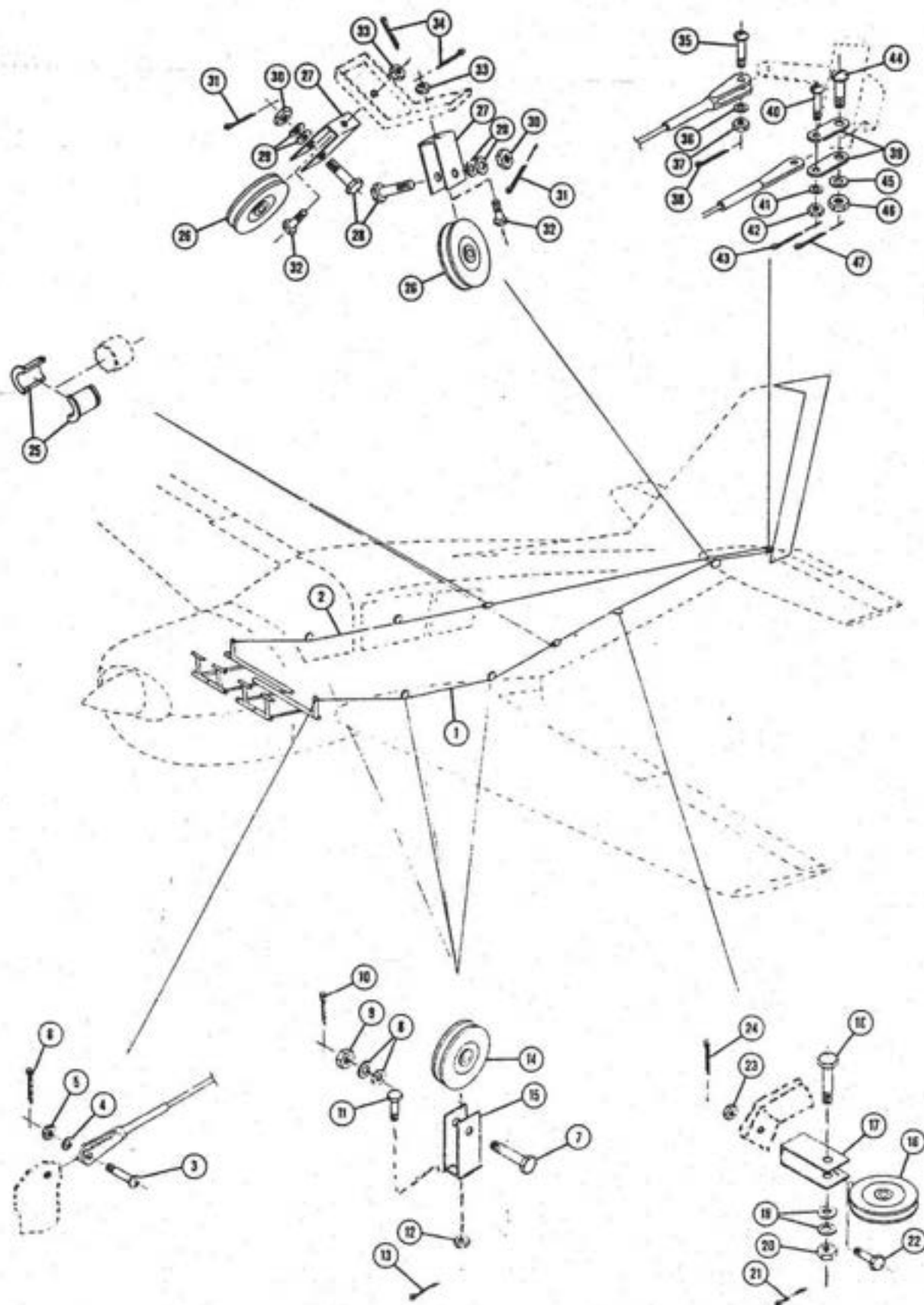


FIGURE 47. RUDDER CONTROL INSTALLATION

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
46.-	195258-2	Tube - Push Rod (Co-Pilot Side Only)	1	J
-43	195256	Tube - Push Rod	2	L
	195256-2	Tube - Push Rod (Co-Pilot Side Only)	1	J
-44	198004-72	Bushing	8	H
-45	AN3-11A	Bolt	8	H
-46	AN960-10	Washer	16	H
-47	MS20365-1032	Nut	8	H
-48	195263	Spring	2	F
-49	195280	Eye Bolt	2	F
-50	AN960-10	Washer	5	F
-51	AN315-3R	Nut	2	F
-52	MS20365-1032	Nut	2	F
-53	AN24-21A	Bolt, Clevis	1	E
-54	AN960-416	Washer	1	E
-55	MS20365-428	Nut	1	E
E - Outboard R/H shown, inboard L/H typical. F - Right hand shown, left hand typical. H - Aft left hand inboard attachment shown, All attachments typical fore and aft. J - These parts to be used on the listed aircraft only: Model 17-30A, Serial Numbers 75-30776, 75-30777, 75-30778 and 75-30779; Model 17-31AT , Serial Numbers 75-31113 and 75-31114. (See Note K & L) L - The units per assembly for Part 195256 is 1 when 195256-2 is installed.				

46.-				
-22	AN4-14A	Bolt	4	
-23	AN960-416	Washer	4	
-24	AN970-4	Washer	4	
-25	MS20365-428	Nut	4	
-26	195262	Torque Tube	1	
-27	195260	Torque Tube	1	
-28	195251	Bearing	2	
-29	195611	Shim	A/R	
-30	195681-2	Housing	2	
-31	195612	Shim	A/R	
-32	198000-12	Washer	2	G
-33	AN380-4-8	Cotter Pin	2	G
-34	AN4-17A	Bolt	4	I
-35	AN960-416	Washer	4	
-36	MS20365-428	Nut	4	
-37	196567-14	Washer	4	
-38	AN4-21A	Bolt	4	I
-39	AN960-416	Washer	4	
-40	AN970-4	Washer	4	
-41	MS20365-428	Nut	4	
-42	195258	Tube - Push Rod	2	K
CONTINUED ON NEXT PAGE G- Left hand shown, right hand typical. I - Apply RTV-732 sealant under washer and nut and to bolt on all bolts going through fuselage tubing. K - The units per assembly for Part 195258 is 1 when 195258-2 is installed.				



46-

RUDDER PEDALS INSTALLATION

	195510-0	Rudder Pedal Installation		
- 1	195272-0	Rudder Pedal Assembly	1	
- 2	195268-0	Rudder Pedal Assembly ¹	1	
- 3	195268-10	Rudder Pedal Assembly	1	
- 4	195272-10	Rudder Pedal Assembly	1	
- 5	19516	Pedal Support	1	D
- 6	19515	Pedal	1	D
- 7	195279	Pin	1	D
- 8	AN960-10L	Washer	2	D
- 9	AN380-2-2	Cotter Pin	2	D
-10	AN24-21A	Bolt, Clevis	1	D
-11	AN960-416	Washer	1	D
-12	MS20365-428	Nut	1	D
-13	19513	Pedal	1	E
-14	195281	Shaft - Rudder Pedals	2	
-15	195277	Spacer, Center	2	
-16	195278	Spacer, Outboard	1	F
-17	195681-3	Housing	2	
-18	AN4-16A	Bolt	4	I
-19	AN960-415	Washer	4	
-20	AN970-4	Washer	4	
-21	MS20365-428	Nut	4	

CONTINUED ON NEXT PAGE

D - Inboard L/H shown, outboard L/H typical.

E - Outboard R/H shown, inboard L/H typical.

F - Right hand shown, left hand typical.

I - Apply RTV-732 sealant under washer and nut and to bolt on all bolts going through fuselage tubing.

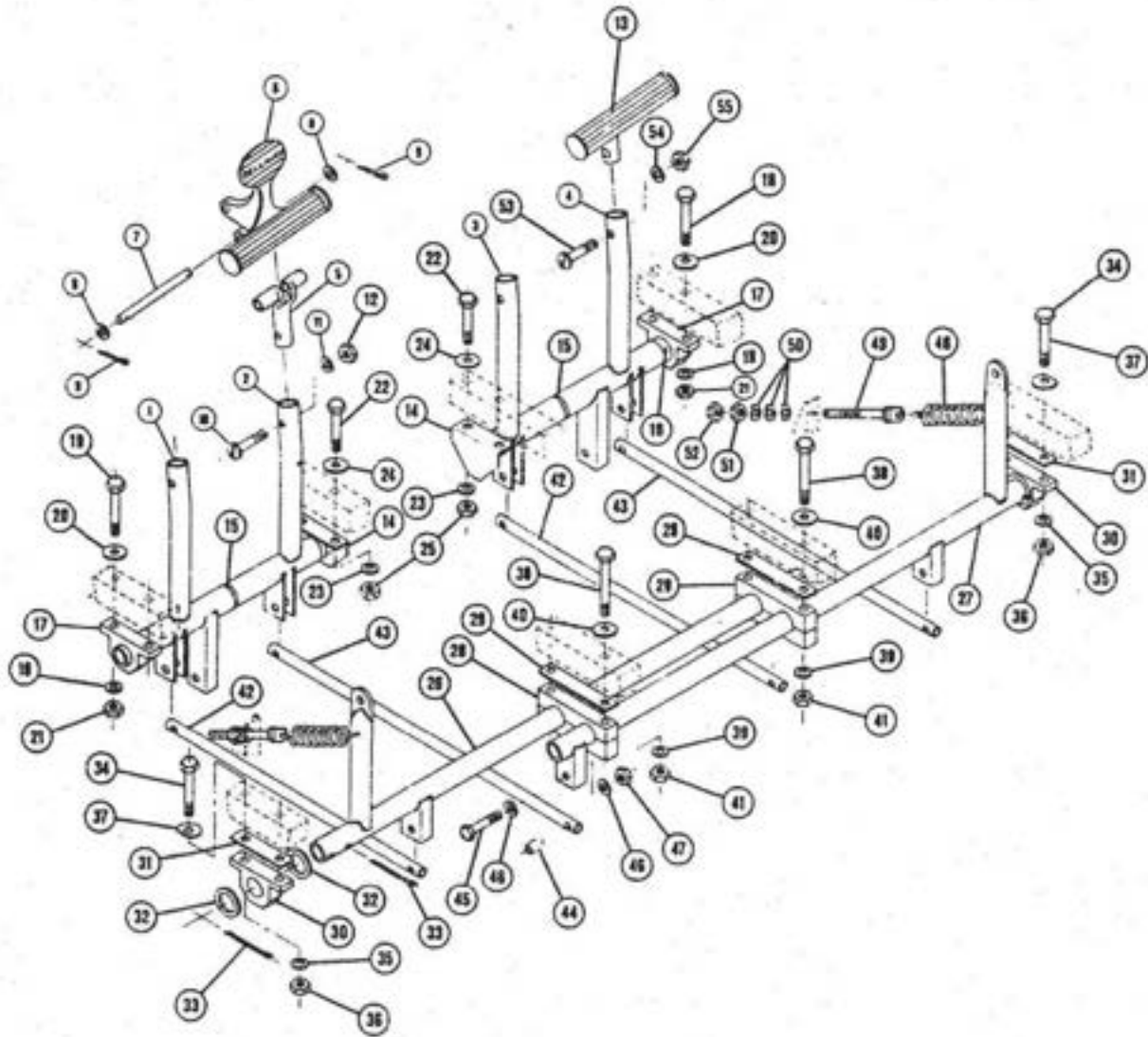


FIGURE 46. RUDDER PEDALS INSTALLATION

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FIGURE AND INDEX N .	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
45-				
-27	AN23-26	Clevis Bolt, Elevator Horn Attach	1	
-28	AN96-1	Washer	1	
-29	AN320-3	Nut	1	
-30	AN38-2-2	Cotter Pin	1	



FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
45-	193132	INSTALLATION - TAIL CONTROL SURFACES		
		Installation - Tail Control Surfaces	--	
- 1	19701	Rudder Trim Tab	1	
- 2	AN526-632-8	Screw	3	
- 3	MS20364-632	Nut	3	
- 4	AN23-21	Clevis Bolt, Upper & Lower Rudder Attach	1	
- 5	AN960-10	Washer	1	
- 6	AN320-3	Nut	1	
- 7	MS24665-2-2	Cotter Pin	1	
- 8	AN23-21	Clevis Bolt, Center Rudder Attach	1	
- 9	AN960-10	Washer	2	
-10	AN320-3	Nut	1	
-11	MS24665-2-2	Cotter Pin	1	
-12	AN23-21	Clevis Bolt, Elevator Attach	2	D
	AN23-22	Clevis Bolt (Alternate for AN23-21)	2	D
-13	AN960-10	Washer	2	D
-14	AN320-3	Nut	2	D
-15	MS24665-2-2	Cotter Pin	2	D
-16	195516-0	Bearing Support, Trim Tab	1	
-17	198004-141	Bushing	1	
-18	AN21-16A	Clevis Bolt	2	
-19	AN960-6	Washer	2	
-20	AN365-640	Nut	2	
-21	AN23-22A	Clevis Bolt, Trim Attach	1	
-22	AN960-10	Washer	1	
-23	AN960-10L	Washer	1	
-24	AN4-17A	Bolt, Elevator Horn Attach	.2	
-25	AN960-416	Washer	2	
-26	AN365-428	Nut	2	
CONTINUED ON NEXT PAGE				
D - Right hand shown, left hand opposite.				

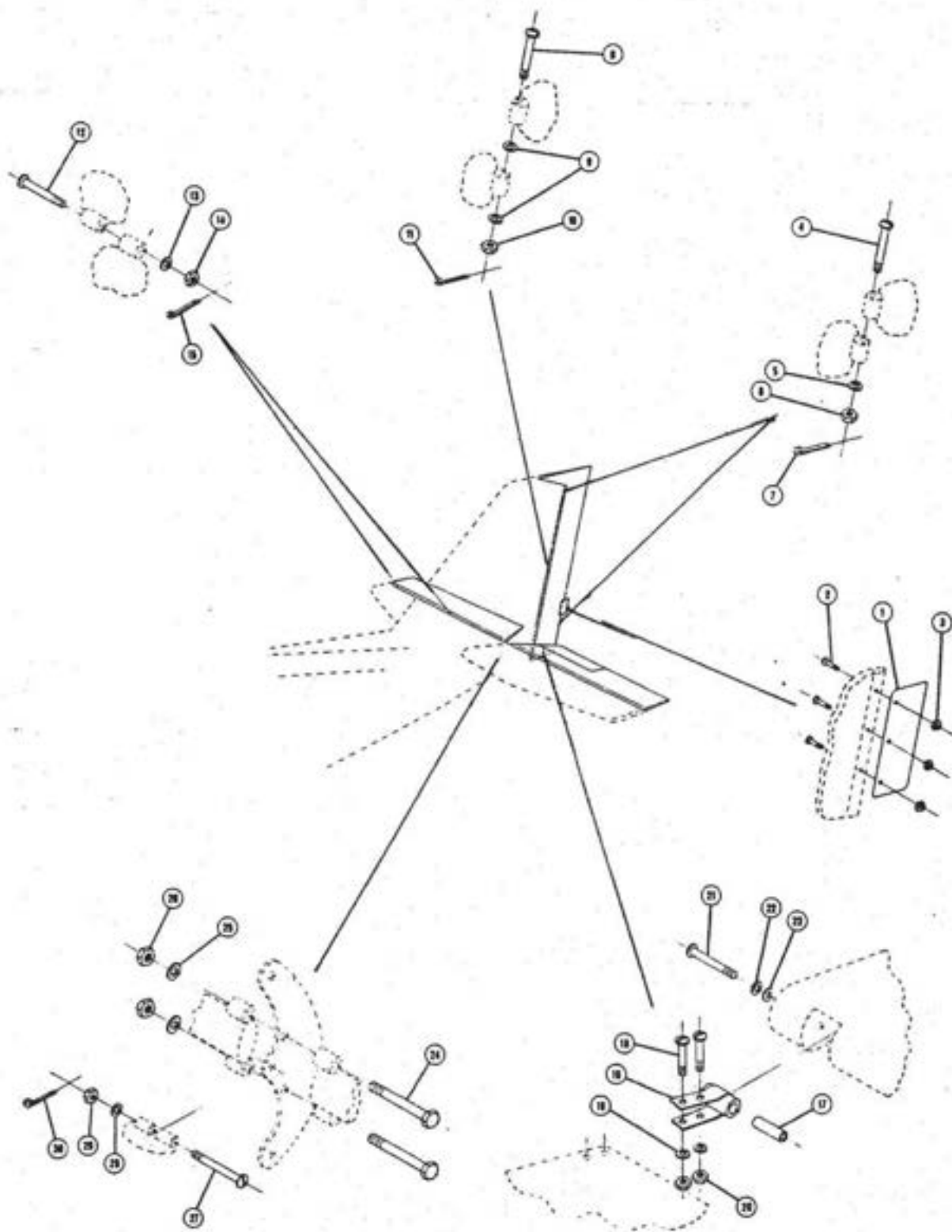


FIGURE 45: INSTALLATION - TAIL CONTROL SURFACES

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FIGURE AND INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	CODE
44-		TRIM TAB ACTUATOR ASSEMBLY		
	195707-10	Actuator Assembly	-	
- 1	195520-30	Slide Tube	1	
- 2	MS16624-31	Retaining Ring	2	
- 3	195707-4	Shaft - Actuator	1	
- 4	195707-5	Cap - Bearing	1	
- 5	AN21-11A	Bolt - Clevis	4	
- 6	AN960-6	Washer	8	
- 7	MS20365-640	Nut	4	
- 8	38-FF	Bearing	1	
	38	Bearing (Alternate for 38-FF)	1	
	38ZZ	Bearing (Alternate for 38-FF)	1	

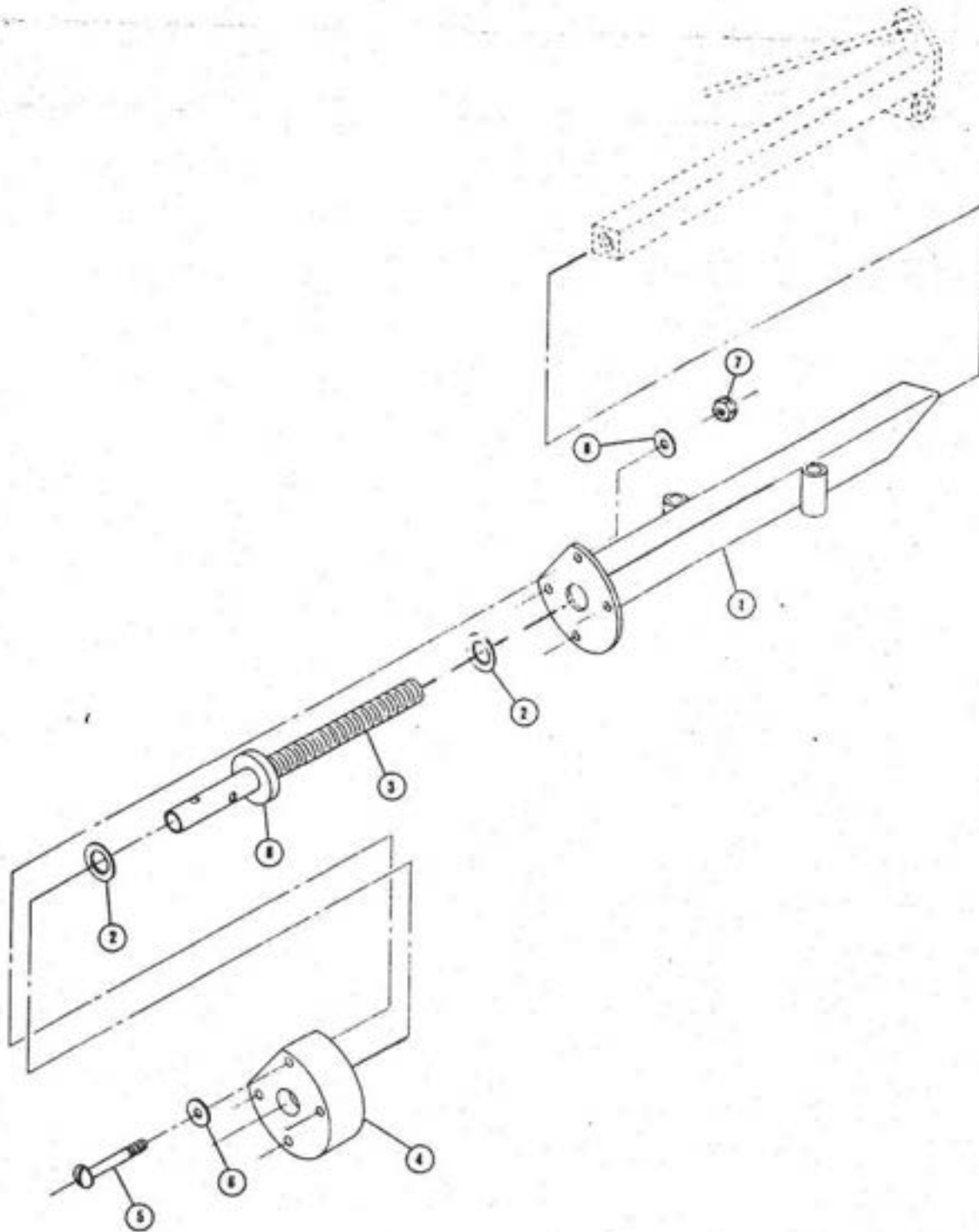


FIGURE 44. TRIM TAB ACTUATOR ASSEMBLY