

**AIR-CONDITIONING, PRESSURIZATION, ICE & RAIN PROTECTION SUBSECTION****TABLE OF CONTENTS**

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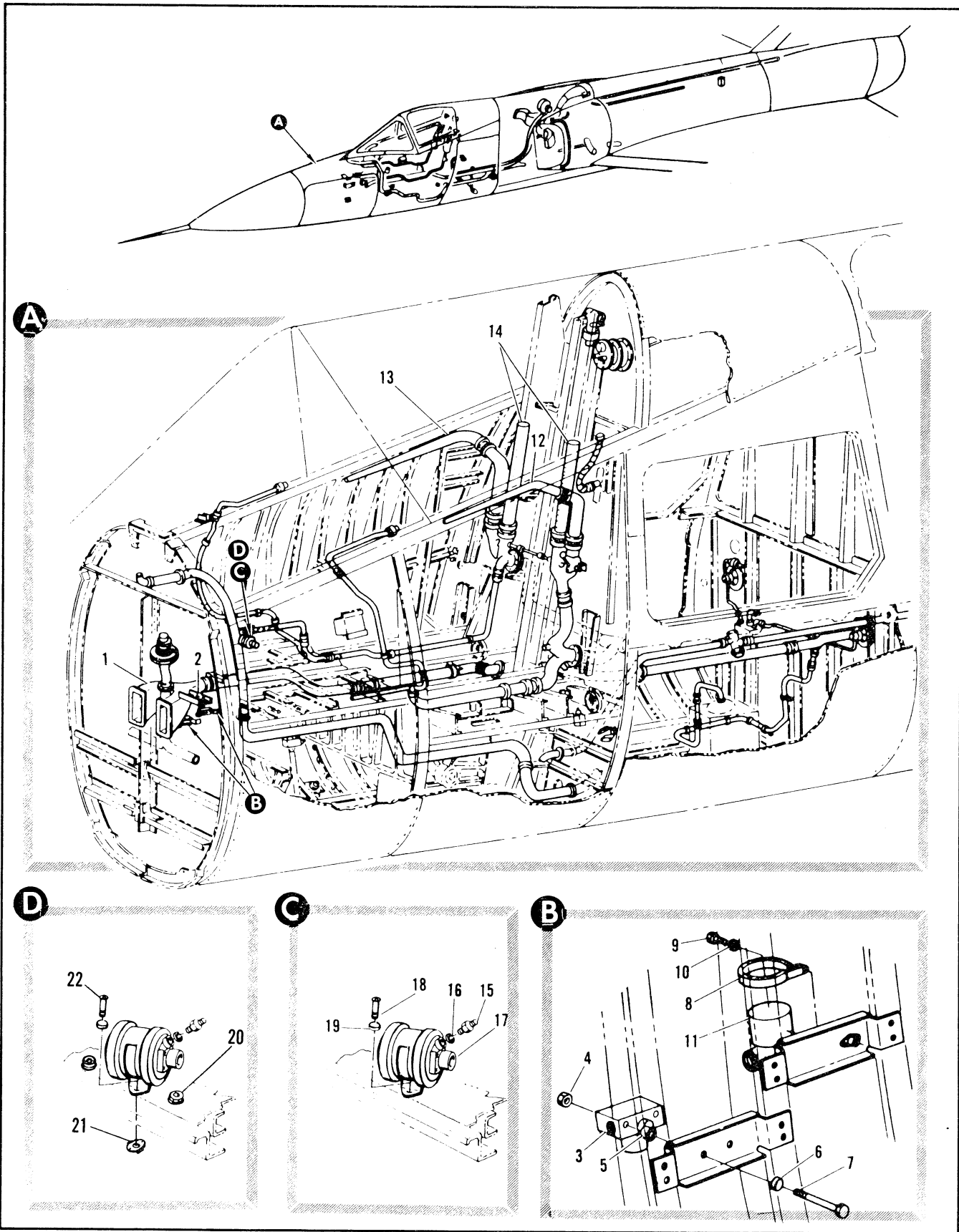


Figure 2.13-1. Air-Conditioning Pressurization Ice and Rain Protection System (Sheet 1 of 9)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-1		AIR-CONDITIONING PRESSURIZATION ICE AND RAIN PROTECTION SYSTEM			
- 1		• DUCT INSTL, FWD RADAR COMPARTMENT COOLING STA 102 TO 16P SEE FIG. 2.13-5 AND 2.13-6	RF		
- 2		• FITTING INSTL, COCKPIT PRESSURE GROUND TEST SEE FIG. 2.13-2 AND 2.13-3	RF		
	8-23720	• EQUIPMENT INSTL, RADOME ANTI-ICING FOR NHA SEE FIG. 2.3-5 INDEX 36	RF	35	
- 3	MS28720-4	• FILTER, RADOME ANTI-ICING ATTACHING PARTS	1	35	
- 4	NAS679A4	• NUT	2	35	
- 5	NAS43DD4-16	• SPACER	2	35	
- 6	AN960D416L	• WASHER	2	35	
- 7	AN4-17A	• BOLT	2	35	
		-----X-----			
- 8	91-98026-021	• CLAMP ATTACHING PARTS	1	35	
- 9	AN3-4A	• BOLT	1	35	
- 10	AN960D10L	• WASHER	1	35	
		-----X-----			
- 11	5152	• VALVE ASSY, RADOME ANTI-ICING <75361> 99-35000-003 T.O. 9P5-5-30-3	1	35	
- 12		• DUCT INSTL, COCKPIT AIR-CONDITIONING FWD LH SEE FIG. 2.13-9	RF		
- 13		• DUCT INSTL, COCKPIT AIR-CONDITIONING FWD RH SEE FIG. 2.13-11	RF		
- 14		• DUCT INSTL, COCKPIT AIR-CONDITIONING AFT SEE FIG. 2.13-12	RF		
	8-23730-1	• SWITCH INSTL, COCKPIT LOW PRESSURE WARNING LIGHT FOR NHA SEE FIG. 2.13-1	1	35	
- 15	AN815-4	• UNION	1	35	
- 16	AN6290-4	• GASKET	1	35	
- 17	4151R19-56A	ATTACHING PARTS	1	35	
- 18	NAS221-6	• SCREW	2	35	
- 19	AN960PD10L	• WASHER	2	35	
		-----X-----			
		COCKPIT FEED THRU INSTALLATION APX-12			
- 20	69C35142-1	• PLUG, FEED THRU	2	35	
- 21	MS21075-3	• NUT	2	35	
- 22	MS35207-216	• SCREW	3	35	

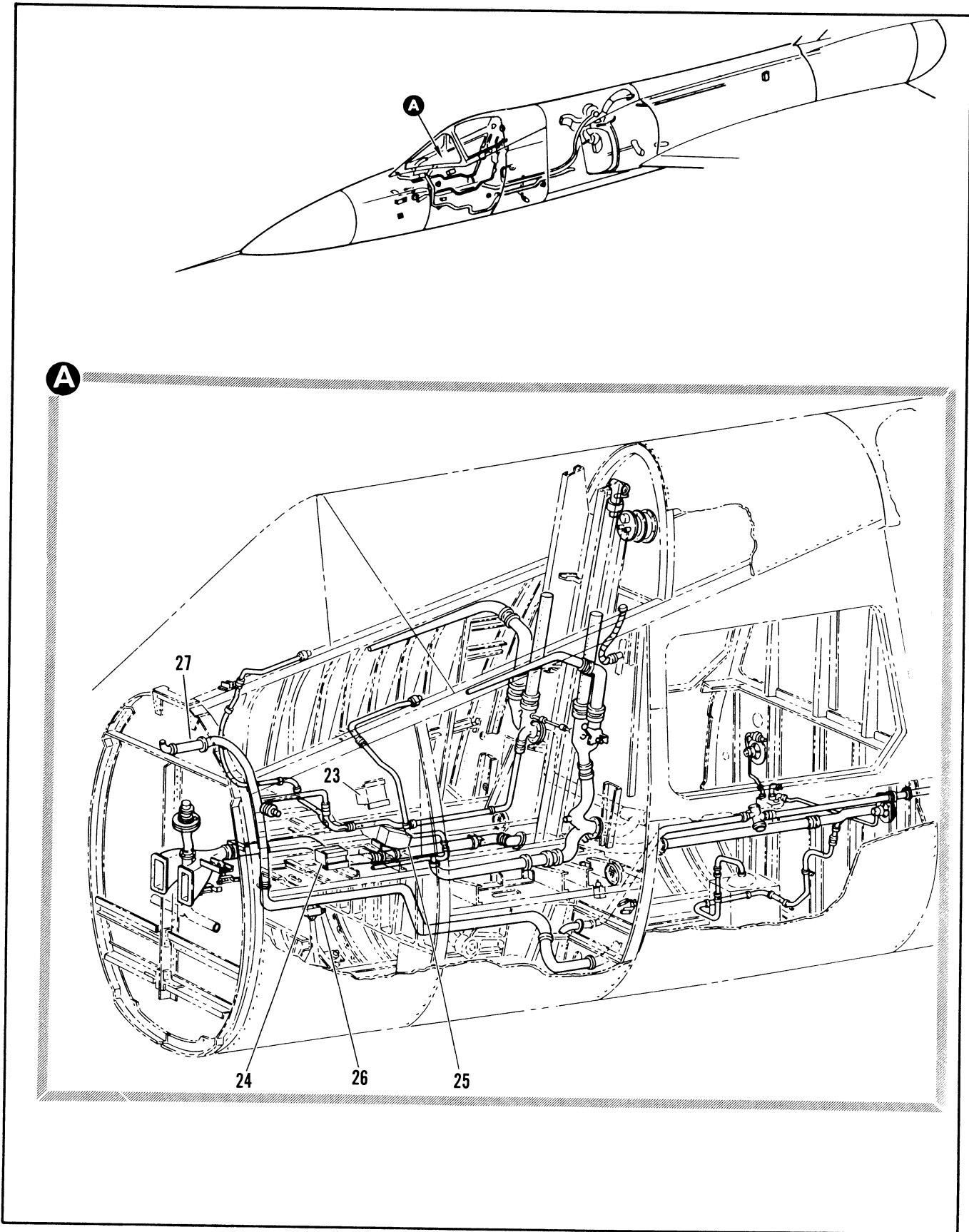


Figure 2.13-1. Air-Conditioning Pressurization Ice and Rain Protection System (Sheet 2 of 9)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-1 - 23	8-62203-993 848-1	<ul style="list-style-type: none"> <li>• CONTROL INSTL, WINDSHIELD ANTI-ICING LH</li> <li>• CONTROL ASSY, ELECTRICALLY HEATED WINDSHIELD &lt;97896&gt; SPEC 8-06277-1 T.O. 15E3-2-46-3 ATTACHING PARTS</li> </ul>	1 1	35 35	
	AN520-10RR AN3-4A	<ul style="list-style-type: none"> <li>• SCREW</li> <li>• BOLT</li> <li>----X----</li> </ul>	3 1	35 35	
- 24	8-62232 848-1	<ul style="list-style-type: none"> <li>• CONTROL INSTL, WINDSHIELD ANTI-ICING RH</li> <li>• CONTROL ASSY, ELECTRICALLY HEATED WINDSHIELD &lt;97896&gt; SPEC 8-06277-1 T.O. 15E3-2-46-3 ATTACHING PARTS</li> </ul>	1 1	B B	
	AN520-10RR	<ul style="list-style-type: none"> <li>• SCREW</li> <li>----X----</li> </ul>	4	B	
- 25	8-95692-1 848-1	<ul style="list-style-type: none"> <li>• CONTROL INSTL, WINDSHIELD ANTI-ICING RH FOR NHA SEE FIG. 2.3-5</li> <li>• CONTROL ASSY, ELECTRICALLY HEATED WINDSHIELD &lt;97896&gt; SPEC 8-06277-1 T.O. 15E3-2-46-3 ATTACHING PARTS</li> </ul>	RF 1	A A	
	NAS679A3 AN960010L NAS221-8	<ul style="list-style-type: none"> <li>• NUT</li> <li>• WASHER</li> <li>• SCREW</li> <li>----X----</li> </ul>	4 8 4	A A A	
- 26	8-65092 9220-3434	<ul style="list-style-type: none"> <li>• RELAY INSTL, PITOT HEAT</li> <li>• RELAY, &lt;75344&gt; SPEC 8-06279-1 ATTACHING PARTS</li> </ul>	1 1	35 35	
	NAS679A3 NAS221-8	<ul style="list-style-type: none"> <li>• NUT</li> <li>• SCREW</li> <li>----X----</li> </ul>	2 2	35 35	
- 27		<ul style="list-style-type: none"> <li>• DUCT INSTL, RAIN REMOVAL STA 84 TO 160 SEE FIG. 2.13-17</li> </ul>	RF		
		A AIRPLANES 848, 90 AND ON B AIRPLANES 835 THRU 47 AND 48 THRU 89			

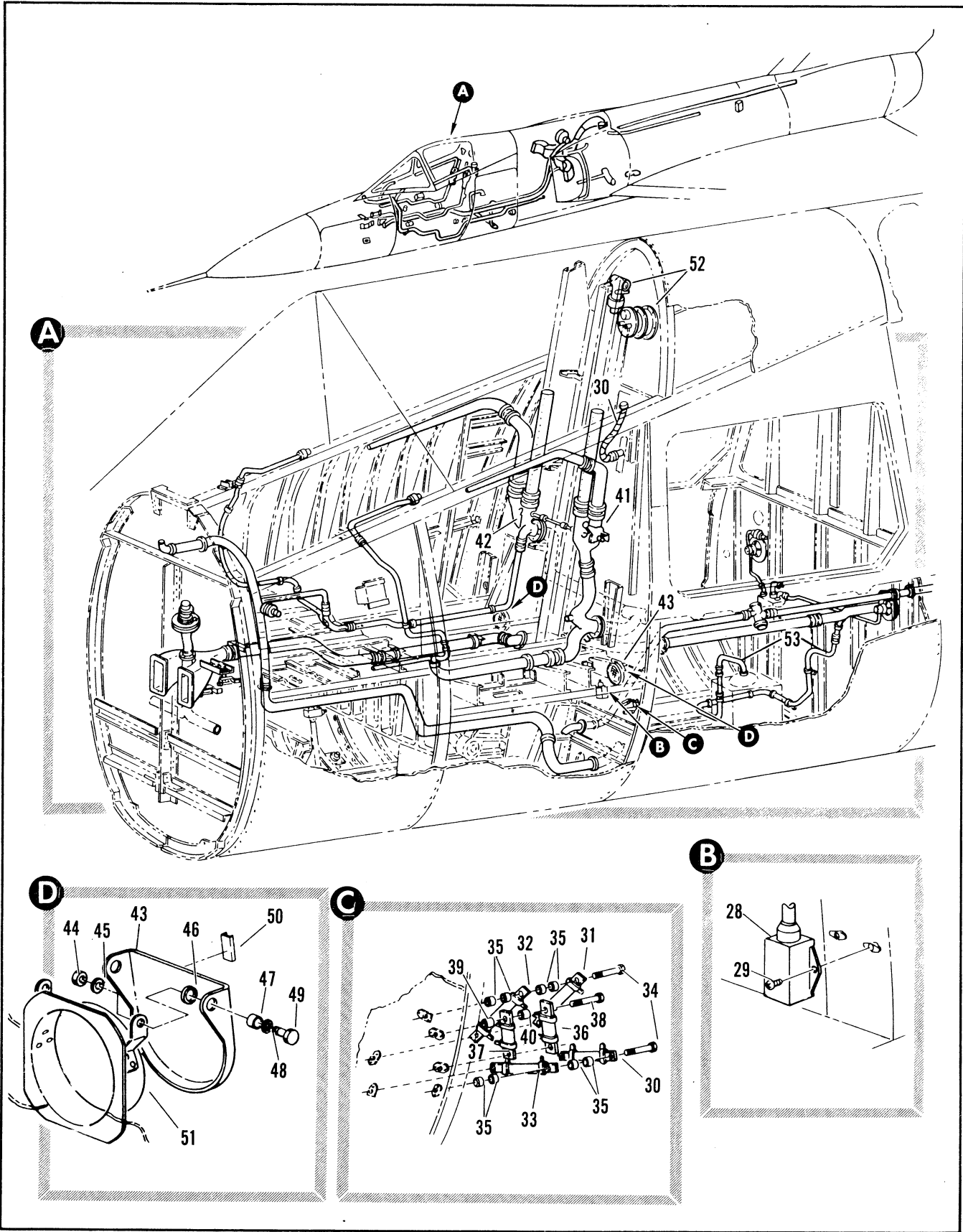


Figure 2.13-1. Air-Conditioning Pressurization Ice and Rain Protection System (Sheet 3 of 9)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-1	8-62206-5	• RELAY INSTL, WINDSHIELD ANTI-ICING SHUT-DOWN	1	35	
- 28	9220-3435	• • RELAY, <35344> SPEC 8-06289-3	1	35	
- 29	AN520-10R7	• • SCREW	2	35	
	8-94872	• HOSE INSTL, PILOT SUIT VENTILATING STA 172 FOR NHA SEE FIG. 2.1-1 INDEX 65	RF	35	188
	8-94187	• HOSE INSTL, PILOT SUIT VENTILATING STA 172 FOR NHA SEE FIG. 2.1-1 INDEX 65	RF	189	
- 30	MS22055H24	• • HOSE, PILOT SUIT VENTILATING	1	35	
	AN6003T24A	• • HOSE, PILOT SUIT VENTILATING SUITABLE SUB	1	35	
- 31	8-62228-1	• RESISTOR INSTL, MASK DE-FOG	1	35	
- 32	RW22V1R0	• • RESISTOR, 97-47104-001	1	35	
- 33	RW22V2R0	• • RESISTOR, 97-47104-002	2	35	
	RW22V5R0	• • RESISTOR, 97-47104-003	1	35	
		ATTACHING PARTS			
- 34	AN3C20A	• • BOLT	4	35	
- 35	NAS43DD3-24	• • SPACER	8	35	
		-----X-----			
- 36	RW20V100	• • RESISTOR, 97-47100-004	1	35	
- 37	RW20V200	• • RESISTOR, 97-47100-006 REPLACES NOT INTCHG WITH RW20V200	1	99	
		ATTACHING PARTS			
- 38	AN3C20A	• • BOLT	2	35	
- 39	NAS43DD3-16	• • SPACER	2	35	
- 40	NAS43DD3-32	• • SPACER	2	35	
		-----X-----			
- 41		• VALVE ASSY, COCKPIT AIR DIVERTER LH SEE FIG. 2.13-13 INDEX 34	RF		
- 42		• VALVE ASSY, COCKPIT AIR DIVERTER RH SEE FIG. 2.13-13 INDEX 49	RF		
	8-23630	• VALVE INSTL, PURGE AIR CHECK FOR NHA SEE FIG. 2.3-4 INDEX 43	RF	35	
	8-23603	• • VALVE ASSY, PURGE AIR CHECK	2	35	
	8-23603-701	• • VALVE ASSY, PURGE AIR CHECK LH	1	130	
	8-23603-702	• • VALVE ASSY, PURGE AIR CHECK RH	1	130	215
	8-23603-1	• • VALVE ASSY, PURGE AIR CHECK RH	1	216	
- 43	8-23602	• • • FLAPPER, CHECK VALVE ATTACHING PARTS	1	35	
- 44	AN310-3	• • • NUT	2	35	
- 45	AN960D10	• • • WASHER	2	35	129
	AN960D10L	• • • WASHER	2	130	
- 46	AN966PD516L	• • • WASHER	2	35	
- 47	NAS43HT3-9	• • • SPACER	2	35	
- 48	99-51509-02A	• • • WASHER	2	130	
- 49	AN3-5	• • • BOLT	2	35	
		-----X-----			
- 50	8-23603-713	• • • STOP	1	130	
- 51	8-23604	• • • DUCT ASSY, CHECK VALVE RIVETED	1	35	
- 52		• VALVE INSTL, COCKPIT AIR SAFETY SEE FIG. 2.13-19	RF		
- 53		• DUCT INSTL, AFT ELECTRONIC COMPARTMENT COOLING STA 168 TO 216 SEE FIG. 2.13-8	RF		

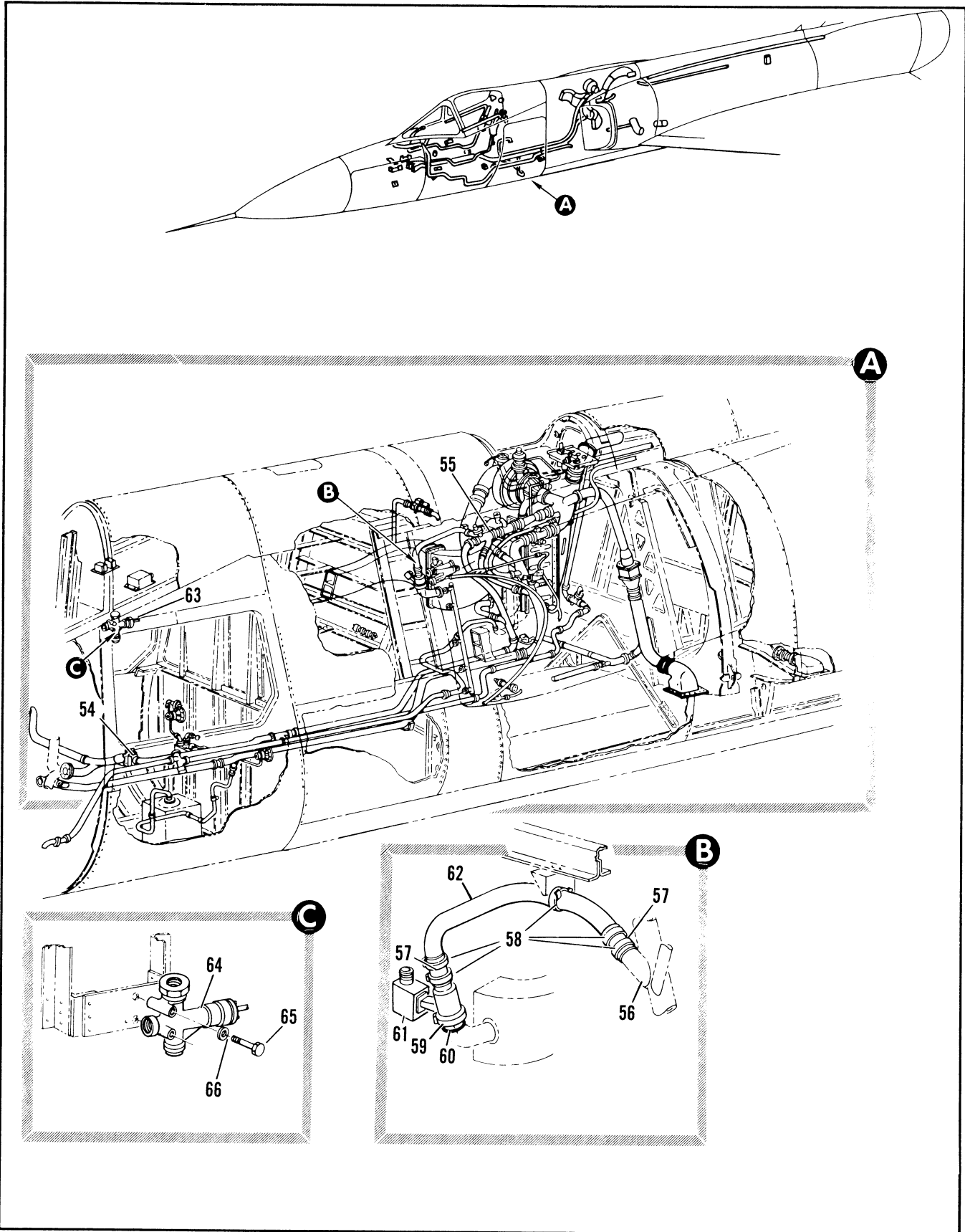


Figure 2.13-1. Air-Conditioning Pressurization Ice and Rain Protection System (Sheet 4 of 9)



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-1- 54		• VALVE ASSY, COCKPIT AIR CHECK SEE FIG. 2.13-14	RF		
- 55		• DUCT INSTL, FWD RADAR COMPARTMENT AND COCKPIT COOLING SEE FIG. 2.13-9	RF		
	8-23595	• DUCT INSTL, EMERGENCY ELECTRONIC RAM AIR FOR NHA SEE FIG. 2.3-12	RF	35	
- 56		• DUCT ASSY, ELECTRONIC COOLING SEE FIG. 2.13-8 INDEX 29	RF		
- 57	AD390-3	• COUPLING, <92799> SPEC 8-00939-3	2	35	
- 58	326-62-312S	• CLAMP, <98625> 91-97801-004	5	35	
- 59	4480-369S	• COUPLING, <98625> 92-73003-015	1	35	
- 60	7-2253-1	• GASKET, <00307> 94-16002-004	1	35	
- 61	40D690	• VALVE ASSY, RAM AIR <97990> SPEC 8-02277-1 T.O. 15A2-2-62-3	1	35	
- 62	8-23594-7	• DUCT, EMERGENCY ELECTRONIC RAM AIR	RF	35	
	8-23594-1	• DUCT ASSY, EMERGENCY ELECTRONIC RAM AIR ALT INTCHG WITH 8-23594-7	RF	35	
- 63	8-85045-1	• VALVE INSTL, EMERGENCY COCKPIT PRESSURIZATION FOR NHA SEE FIG. 2.3-3	RF	35	
- 64	11140	• VALVE ASSY, <99643> SPEC 8-00494-1 T.O. 15H5-2-27-23 ATTACHING PARTS	1	35	
- 65	AN3-15A	• BOLT	2	35	
- 66	AN960PD10	• WASHER -----X-----	2	35	
		A AIRPLANES #48, 90 AND ON B AIRPLANES #35 THRU 47 AND 49 THRU 89			

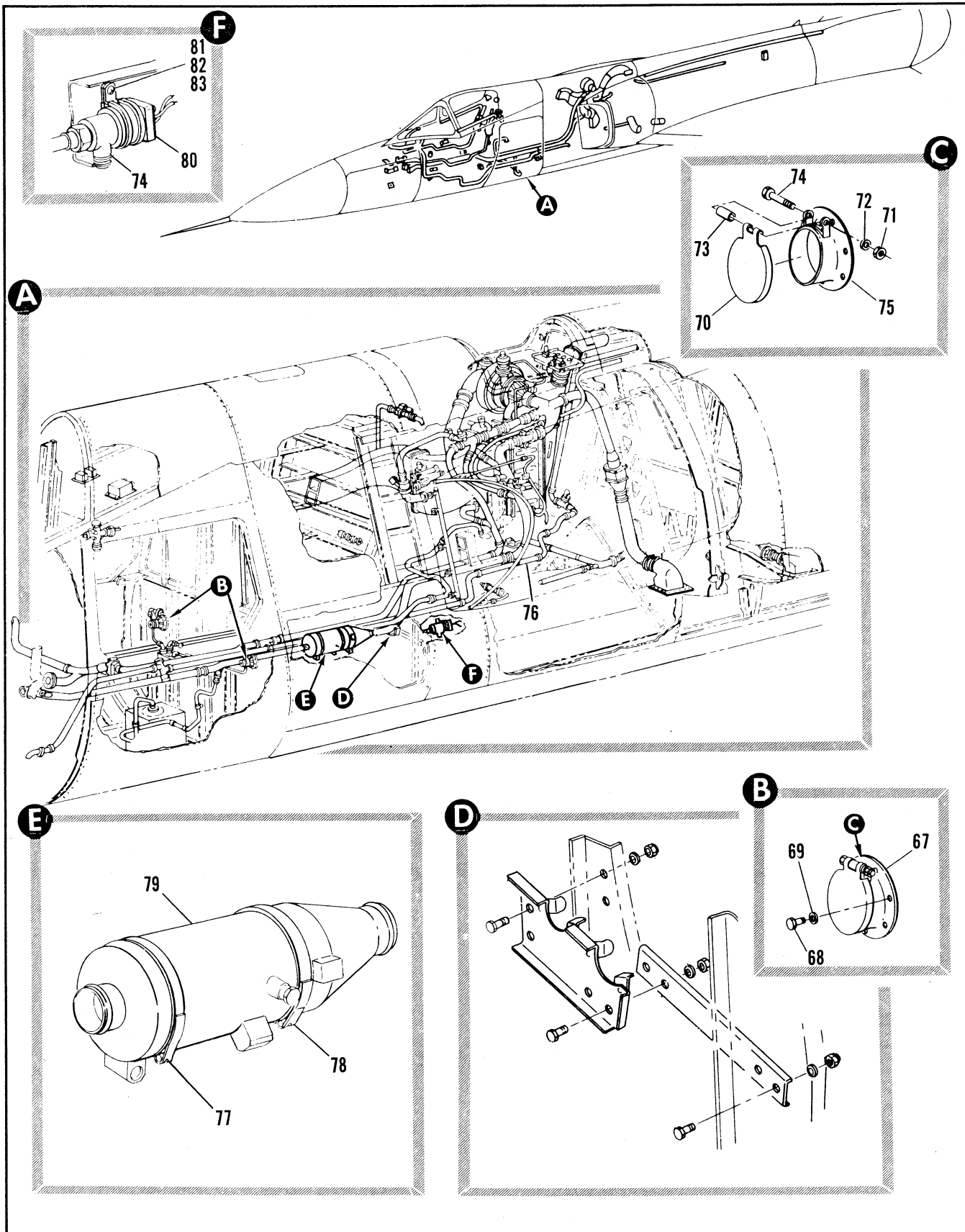


Figure 2.13-1. Air-Conditioning Pressurization Ice and Rain Protection System (Sheet 5 of 9)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-1	8-23097	• VALVE INSTL, ELECTRONIC COMPARTMENT CHECK FOR NHA SEE FIG. 2.3-3	PF	35	
- 67	8-23093	• • VALVE ASSY, SWING CHECK LH	1	35	
	8-23093-1	• • VALVE ASSY, SWING CHECK RH	1	35	
		ATTACHING PARTS			
- 68	AN3-4A	• • BOLT	12	35	
- 69	AN960D10L	• • WASHER	12	35	
		-----X-----			
- 70	8-23095	• • • FLAPPER, HINGED CHECK VALVE	1	35	
		ATTACHING PARTS			
- 71	NAS679A3	• • • NUT	1	35	
- 72	AN960D10	• • • WASHER	1	35	
- 73	NAS430D3-94	• • • SPACER	1	35	
- 74	AN3-25A	• • • BOLT	1	35	
		-----X-----			
- 75	8-23094	• • • BODY, CHECK VALVE LH	1	35	
	8-23094-1	• • • BODY, CHECK VALVE RH	1	35	
- 76		• DUCT INSTL, WINDSHIELD RAIN REMOVAL STA 227 TO 295 SEE FIG. 2.13-20	RF		
	8-23525	• BRACKET INSTL, COCKPIT COOLING DUCT FOR NHA SEE FIG. 2.3-4	RF	35	
- 77	320-62-6125	• CLAMP, (98625) 91-97801-014	1		
- 78	64J34050-49	• CLAMP ASSY, RIVETED	1		
- 79	595350-1	• SEPARATOR, MOISTURE AIRCRAFT AIR CONDITIONING SYSTEM (73030) SPEC 64E34061-1, T.O. 9P3-2-13-3	1		
- 80	MS21919H14	• CLAMP	1		
		ATTACHING PARTS			
- 81	MS21042L3	• NUT	1		
- 82	AN960D10L	• WASHER	1		
- 83	AN520-13RP	• SCREW	1		
		-----X-----			
- 84	27900	• VALVE ASSY, MOISTURE SEPARATOR SERVO BYPASS (99643)	1		

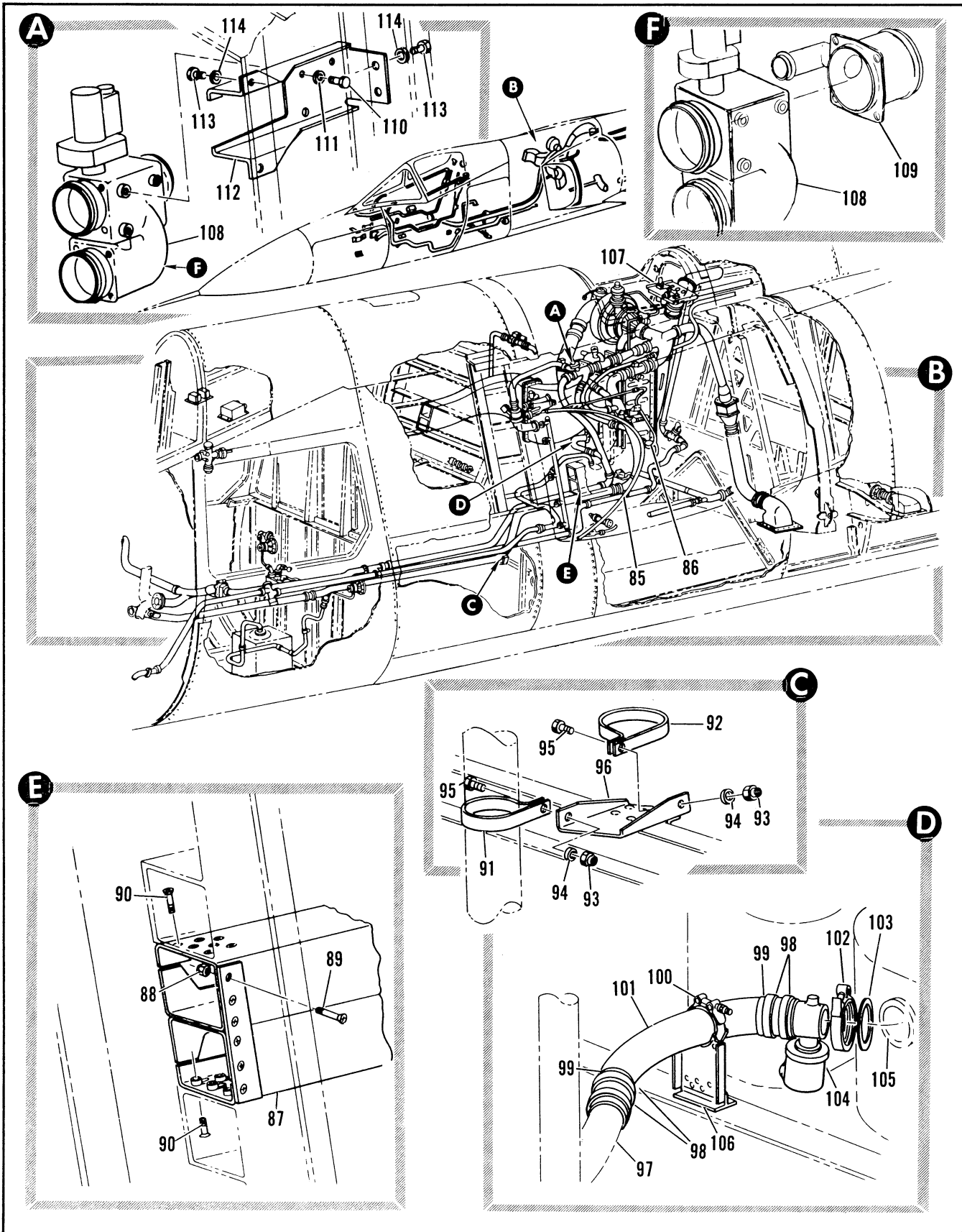


Figure 2.13-1. Air-Conditioning Pressurization Ice and Rain Protection System (Sheet 6 of 9)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION 1 2 3 4 5 6	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
				2.13-1- 85	
- 86		• TUBING INSTL, ANTI-ICING AIR INTAKE DUCT SEE FIG. 2.13-29	RF		
	8-74572-1	• DUCT INSTL, BOUNDARY BLEED FED LH FOR NHA SEE FIG. 2.3-13	RF	35	
	8-74572-2	• DUCT INSTL, BOUNDARY BLEED FWD RH FOR NHA SEE FIG. 2.3-13	RF	35	
- 87	8-74572-41	• • DUCT ASSY, BOUNDARY BLEED FWD LH RIVETED	1	35	
	8-74572-42	• • DUCT ASSY, BOUNDARY BLEED FWD RH RIVETED ATTACHING PARTS	1	35	
- 88	AN310-3	• • NUT	6	35	
- 89	NAS333P6	• • BOLT	6	35	
- 90	NAS333PA5	• • BOLT	14	35	
		-----X-----			
	8-23524	• SUPPORT INSTL, COCKPIT AND ELECTRONIC COOLING DUCT STA 259 FOR NHA SEE FIG. 2.3-10	RF	35	
- 91	AN742D32	• • CLAMP	1	35	
- 92	AN742D48	• • CLAMP	1	35	240
	AN742-48	• • CLAMP ATTACHING PARTS	1	241	
- 93	NAS679A3	• • NUT	2	35	
- 94	AN968PD10L	• • WASHER	2	35	
- 95	AN3-5A	• • BOLT	2	35	
		-----X-----			
- 96	8-23524-7	• • SUPPORT	1	35	
	8-23390	• DUCT INSTL, RAM AIR STA 256 TO 276 FOR NHA SEE FIG. 2.3-10	RF	35	
- 97		• • DUCT ASSY, COCKPIT COOLING SEE FIG. 2.13-9	RF		
- 98	AN737TW74	• • CLAMP	4	35	
- 99	AD297-7	• COUPLING, <92799> SPEC 8-10297-7	2	35	
-100	321-62-2155	• • CLAMP, <98625> 91-97891-808	1	35	
-101	8-23391	• • DUCT	1	35	
-102	4464C281M	• • COUPLING, <98625> 92-73005-862	1	35	
-103	7-2153-1	• • GASKET, <98307> 94-16032-905	1	35	
-104	40D705	• • VALVE ASSY, RAM AIR DUCT <97590> SPEC 8-12277 T.O. 15A2-3-35-3	1	35	
	58TC100-7	• • VALVE ASSY, <98889> SPEC 8-12277 T.O. 15A2-2-55-3 ALT INTCHG WITH 40D705	RF	35	
-105		• • HEADER ASSY, HEAT EXCHANGER INLET SEE FIG 2.13-30 INDEX 62	RF		
-106	8-23390-11	• • SUPPORT ASSY, RIVETED	1	5	
-107		• PANEL INSTL, AIR SHUTOFF VALVE AND FILTER SEE FIG. 2.12-60	RF		
	8-23365	• VALVE INSTL, COCKPIT DIVERTER AND SHUTOFF FOR NHA SEE FIG. 2.3-10	RF	35	
-108	64J34050-5	• • VALVE ASSY, COCKPIT DIVERTER AND SHUTOFF ALTERED FROM 120215	1		
-109	64D34071-1	• • DUCT ASSY, PRESSURE SUIT SUPPLY WELDED ATTACHING PARTS	1		
-110	AN3H3A	• • BOLT	3	35	
-111	AN968PD10L	• • WASHER	3	35	
		-----X-----			

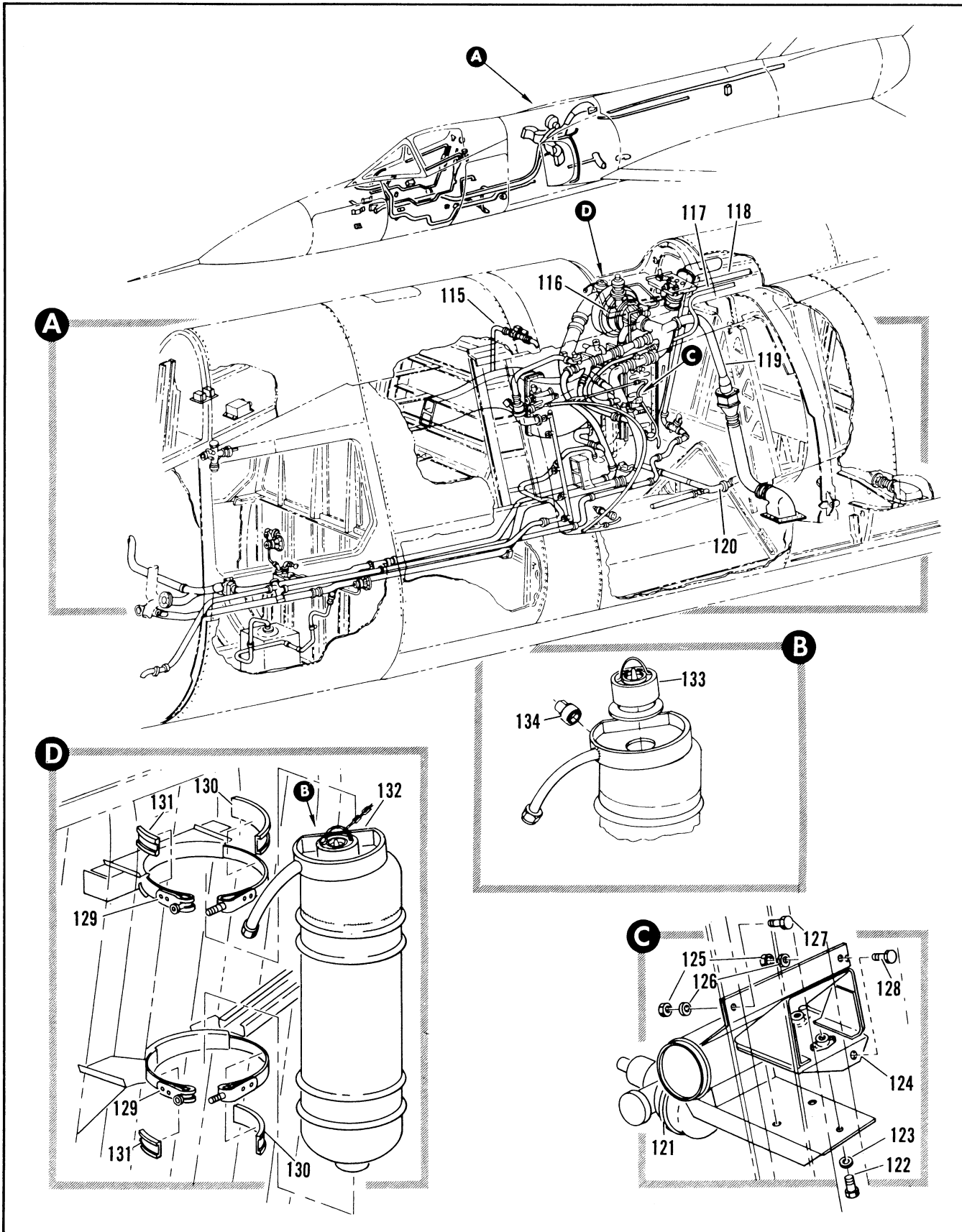


Figure 2.13-1. Air-Conditioning Pressurization Ice and Rain Protection System (Sheet 7 of 9)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-1-112	8-23356-7	. . BRACKET, VALVE SUPPORT ATTACHING PARTS	1	35	
-113	AN3-3A	. . BOLT	4	35	
-114	AN960PD10L	. . WASHER	4	35	
		-----X-----			
-115		. DUCT INSTL, COCKPIT HOT AIR BYPASS STA 26 TO 309 SEE FIG. 2.13-24	RF		
-116		. REFRIGERATION UNIT INSTL, SEE FIG. 2.13-26	RF		
-117		. DUCT INSTL, IFF COOLING STA 260 TO 628 SEE FIG. 2.13-11			
-118		. DUCT INSTL, ENGINE BLEED AIR SEE FIG. 2.13-25	RF		
-119		. DUCT INSTL, GROUND COOLING SEE FIG. 2.13-22	RF		
-120		. DUCT INSTL, GROUND AIR-CONDITIONING SEE FIG. 2.13-23	RF		
	8-23522	. VALVE INSTL, ELECTRONIC COMPARTMENT COOLING FOR NHA SEE FIG. 2.3-13			
-121	106470	. . VALVE ASSY, FLOW DIVIDER <70210> SPEC 8-02270-2 T.O. 15A2-3-9-63 ATTACHING PARTS	1	35	
-122	AN3-4A	. . BOLT	3	35	
-123	AN960PD10L	. . WASHER	3	35	
		-----X-----			
-124	8-23521	. . BRACKET ASSY, RIVETED ATTACHING PARTS	1	35	
-125	NAS679A3	. . NUT	3	35	
-126	AN960PD10L	. . WASHER	3	35	
-127	AN3-4A	. . BOLT	1	35	
-128	AN3-5A	. . BOLT	2	35	
		-----X-----			
	8-23700	. TANK INSTL, GLYCOL RADOME ANTI-ICING FOR NHA SEE FIG. 2.3-13	RF	35	
-129	326-75-675S	. . CLAMP, <99625> 91-97801-017	2	35	
-130	AN8031-6-075	. . PAD	2	35	
-131	AN8031-6-025	. . PAD	2	35	
-132	8-23707-1	. . TANK ASSY, GLYCOL RADOME ANTI-ICING	1	35	
	8-23707-27	. . . CAP ASSY, GLYCOL TANK RADOME	1	35	
-133	6376	. . . . CAP ASSY, GLYCOL TANK RADOME <86831> 93-74500-001	1	35	
-134	8-23703-7	. . . . BOSS, GLYCOL TANK INLET	1	35	

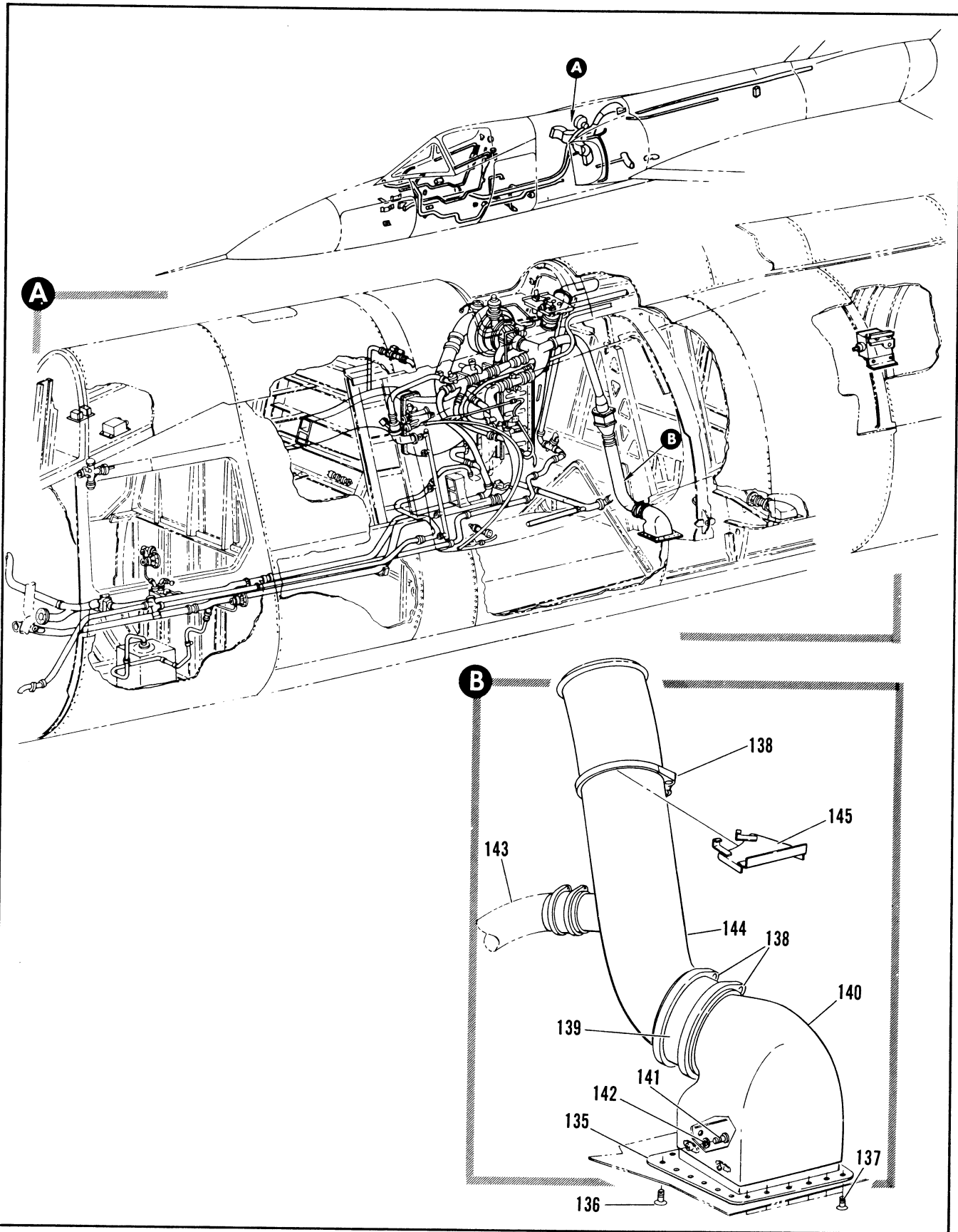


Figure 2.13-1. Air-Conditioning Pressurization Ice and Rain Protection System (Sheet 8 of 9)



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION					
		1	2	3	4	5	6
2.13-1	8-23510-1	• DUCT INSTL. ELECTRONIC COMPARTMENT FOR NHA SEE FIG. 2.3-11					
-135	8-23527-1	• DOOR ASSY, ELECTRONIC COMPARTMENT GROUND CONNECTION ACCESS FOR BREAKDOWN SEE FIG. 2.2-8 ATTACHING PARTS					
-136	NAS333PA4-5	• SCREW					
-137	NAS333PA5-5	• SCREW -----X-----					
-138	321-62-420S	• CLAMP, <98625> 91-97401-020					
-139	NAS521-32-12	• COUPLING					
-140	8-23569-1	• DUCT ASSY, TRANSITION GROUND CONNECTOR ATTACHING PARTS					
-141	AN526-1032R6	• SCREW					
-142	AN960PD10L	• WASHER -----X-----					
-143		• DUCT ASSY, GROUND AIR DISTRIBUTION SEE FIG. 2.13-23 INDEX 19					
-144	8-23549-1	• DUCT ASSY, GROUND CONNECTOR ELECTRONIC COMPARTMENT WELDED					
-145	8-23566	• BRACKET ASSY, RIVETED					

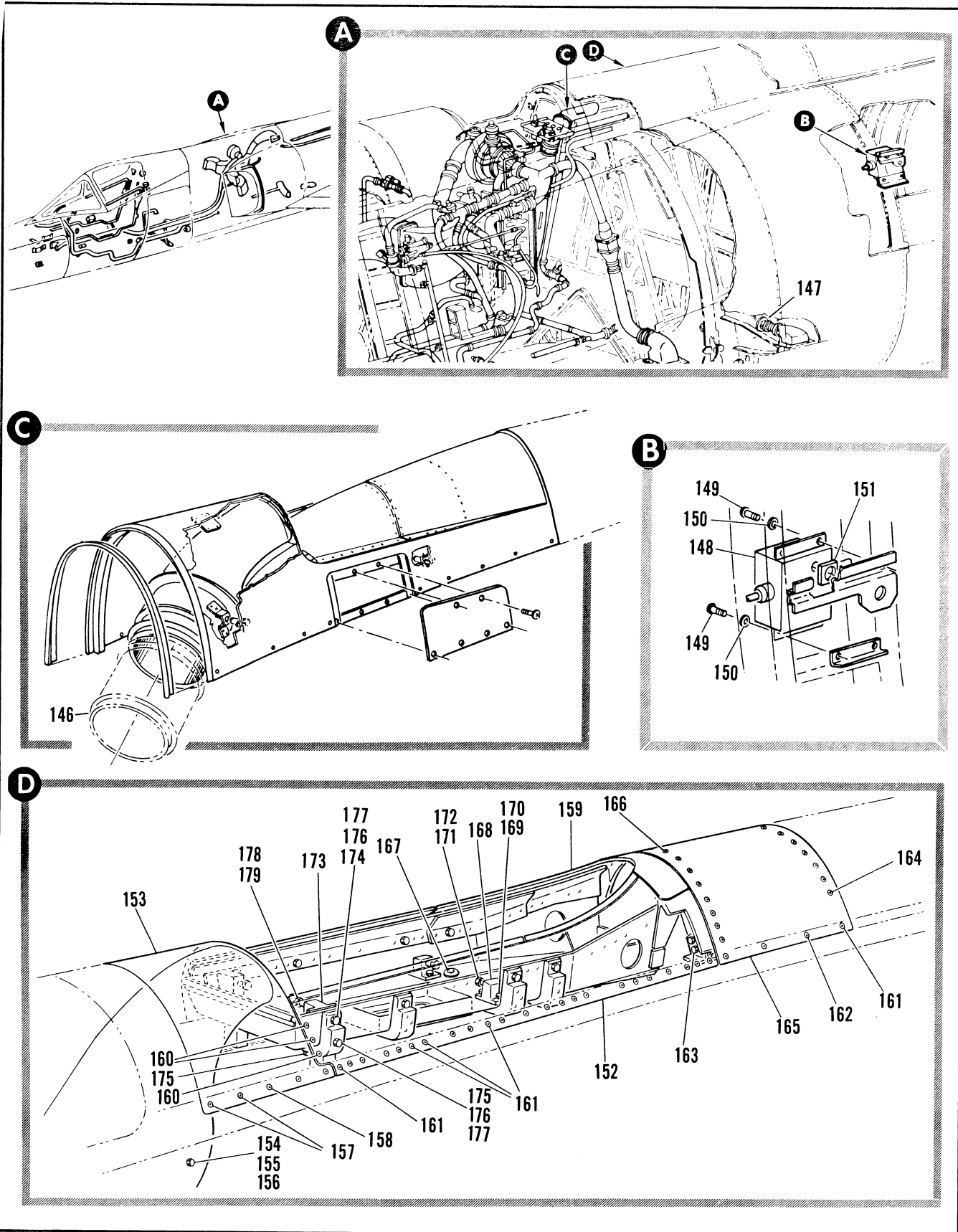


Figure 2.13-1. Air-Conditioning Pressurization Ice and Rain Protection System (Sheet 9 of 9)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-1-146		1 2 3 4 5 6			
-147		• • • DUCT ASSY. HEAT EXCHANGER EXHAUST SEE FIG. 2.13-30 INDEX 1	1	35	
		• DUCT INSTL, ARMAMENT BAY GROUND AIR-CONDITIONING CONNECTOR STA 340 SEE FIG. 2.13-19	RF		
-148	8-65059-1 666-2016	• DETECTOR INSTL, ICE • DETECTOR ASSY, ICE <71688> SPEC 8-06923 T.O. 15E3-2-36-3 ATTACHING PARTS	RF 1	35 35	
-149	AN520-10R7	• • SCREW	4	35	
-150	AN960-10L	• • WASHER -----X-----	AR 1	35 35	
-151	8-65058-11	• • GASKET	1	35	
-152	66J40246-1	• DORSAL INSTL, STA 308.5 TO 370.7	1		
-153	66J402699-1	• DORSAL ASSY, RIVETED STA 308.5 TO STA 322.0 ATTACHING PARTS	1		
-154	AN4-4A	• • BOLT	2		
-155	99-51509-016	• • WASHER	4		
-156	AN960-416L	• • WASHER	2		
-157	AN509-10P10	• • SCREW	4		
-158	AN509-10P11	• • SCREW -----X-----	6		
-159	66J39840-1	• DORSAL ASSY, STA 308.5 TO STA 370.7 ATTACHING PARTS	1		
-160	NAS1203-2	• • BOLT	6		
-161	AN509-10P11	• • SCREW	16		
-162	AN509-10P10	• • SCREW	34		
-163	NAS1304-5	• • BOLT	4		
-164	NAS1203-3	• • BOLT -----X-----	15		
-165	66E39841-1	• • • SKIN ASSY, DORSAL RIVETED ATTACHING PARTS	1		
-166	NAS1203-5	• • • BOLT -----X-----	17		
-167	66J40246-1	• • • PAN ASSY, FUEL TIGHT	1		
	MS35489-14	• • • GROMMET	2		
-168	66D39810-1	• • • STOP ASSY, AFT LH	1		
	66D39810-2	• • • STOP ASSY, AFT RH ATTACHING PARTS	1		
-169	MS21142L4	• • • NUT	2		
-170	NAS1104-14	• • • BOLT -----X-----	2		
-171	NAS428-5-12	• • • BOLT, STOP	1		
	AN316-5P	• • • NUT	1		
-172	MS21209F5-20	• • • THREAD INSERT	1		
-173	66E39811-1	• • STOP ASSY, FWD LH	1		
	66E39811-2	• • STOP ASSY, FWD RH ATTACHING PARTS	1		
-174	NAS1105-13	• • BOLT	1		
-175	NAS1105-17	• • BOLT	2		
-176	NAS577-5A	• • BARREL NUT	3		
-177	NAS578-5A	• • RETAINER -----X-----	3		
-178	NAS428-5-12	• • • BOLT, STOP	1		
	AN316-5P	• • • NUT	1		
-179	MS21209F5-20	• • • THREAD INSERT	1		

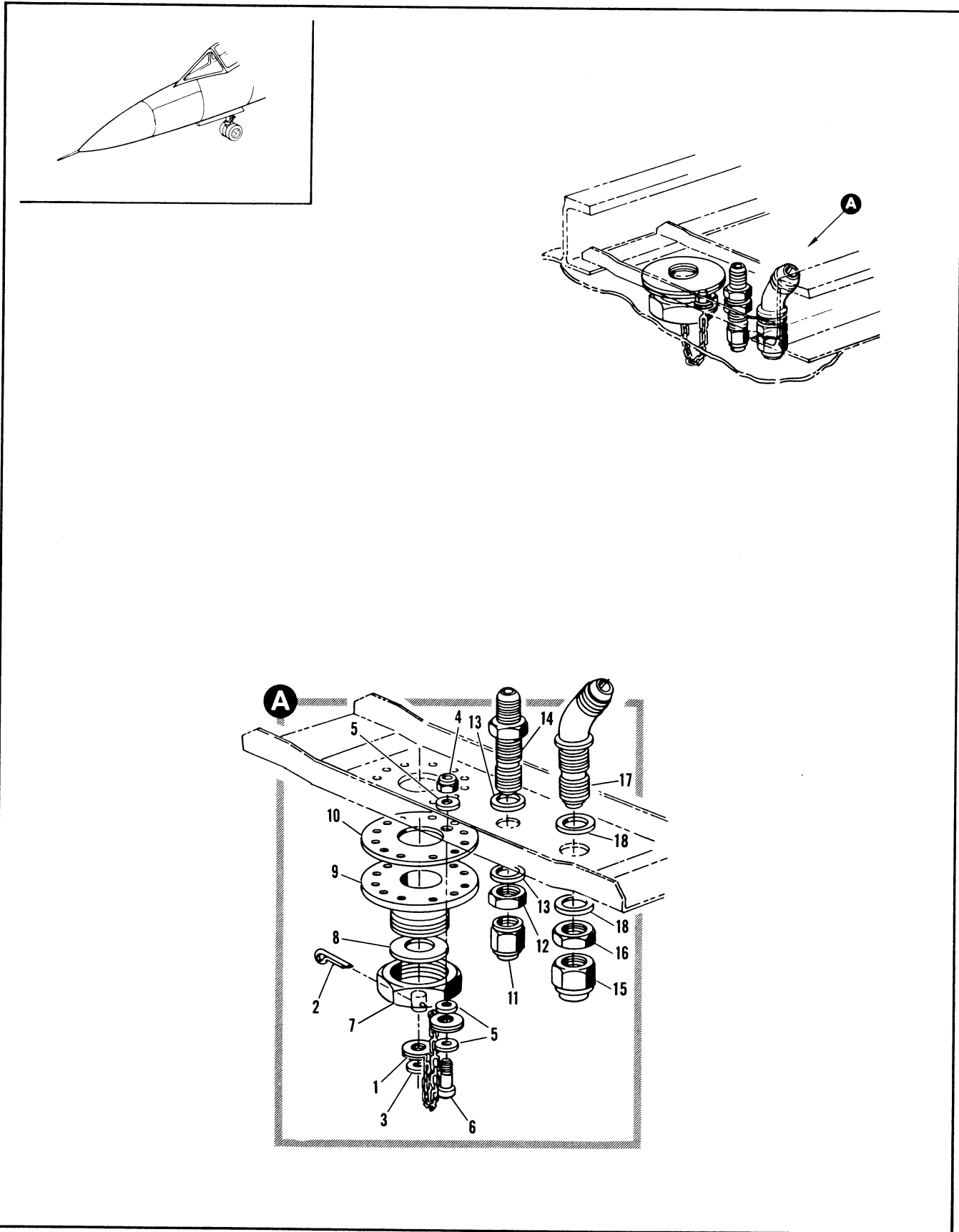


Figure 2.13-2. Ground Test Cockpit Pressure Fitting Installation

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION 1 2 3 4 5 6	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-2	8-23340-1	FITTING INSTALLATION, COCKPIT PRESSURE GROUND TEST FOR NHA SEE FIG. 2.3-4	RF	A	
- 1	NAF1088-1A5	• CHAIN, COCKPIT TEST FITTING ATTACHING PARTS	1	A	
- 2	AN380-1-1	• PIN, COTTER	1	A	
- 3	AN960D6	• WASHER	1	A	
- 4	NAS679A06	• NUT	1	A	
- 5	AN960D6	• WASHER	3	A	
- 6	AN500A6-8	• SCREW	1	A	
		-----X-----			
- 7	8-87860	• CAP, COCKPIT PRESSURE TEST FITTING	1	A	
- 8	99-53900-002	• WASHER	1	A	
- 9	8-87861	• FITTING, COCKPIT PRESSURE GROUND TEST	1	A	
- 10	8-87862	• SEAL, COCKPIT PRESSURE TEST FITTING	1	A	
- 11	AN929-3	• CAP	1	A	
- 12	AN924-3	• NUT	1	A	
- 13	AN960D616	• WASHER	2	A	
- 14	AN832-3	• UNION	1	A	
- 15	MS21914-4	• CAP	1	A	
- 16	AN924-4D	• NUT	1	A	
- 17	MS21907D4	• ELBOW	1	A	
- 18	AN960D716	• WASHER	2	A	
		A AIRPLANES #35 THRU 47 AND 49 THRU 89			

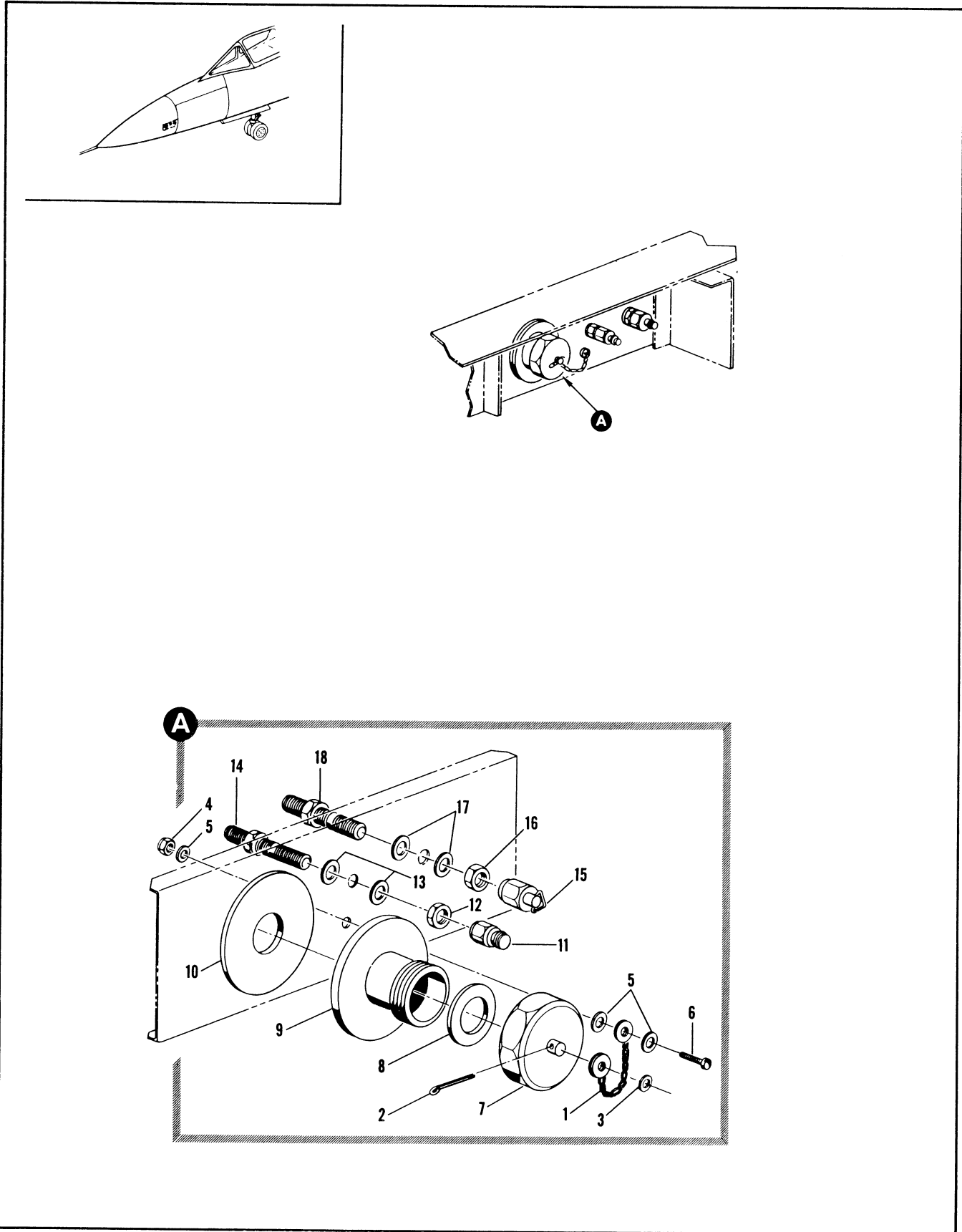


Figure 2.13-3. Ground Test Cockpit Pressure Fitting Installation

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-3	R-23968	FITTING INSTALLATION, COCKPIT PRESSURE GROUND TEST FOR NHA SEE FIG. 2.3-4	RF	A	
- 1	NAS1088-1A5	• CHAIN, COCKPIT TEST FITTING ATTACHING PARTS	1	A	
- 2	AN380-1-1	• PIN, COTTER	1	A	
- 3	AN96006	• WASHER	1	A	
- 4	NAS679A06	• NUT	1	A	
- 5	AN96006	• WASHER	3	A	
- 6	AN500A6-8	• SCREW	1	A	
		-----X-----			
- 7	R-87860	• CAP, COCKPIT PRESSURE TEST FITTING	1	A	
- 8	99-53004-002	• WASHER	1	A	
- 9	R-87861	• FITTING, COCKPIT PRESSURE GROUND TEST	1	A	
- 10	R-87862	• SEAL, COCKPIT PRESSURE TEST FITTING	1	A	
- 11	AN929-3	• CAP	1	A	
- 12	AN924-3	• NUT	1	A	
- 13	AN9600616	• WASHER	2	A	
- 14	AN032-3	• UNION	1	A	
- 15	MS21914-4	• CAP	1	A	
- 16	AN924-4D	• NUT	1	A	
- 17	AN9600716	• WASHER	2	A	
- 18	MS21924D4	• UNION	1	A	
		A AIRPLANES #48, 90 AND ON			

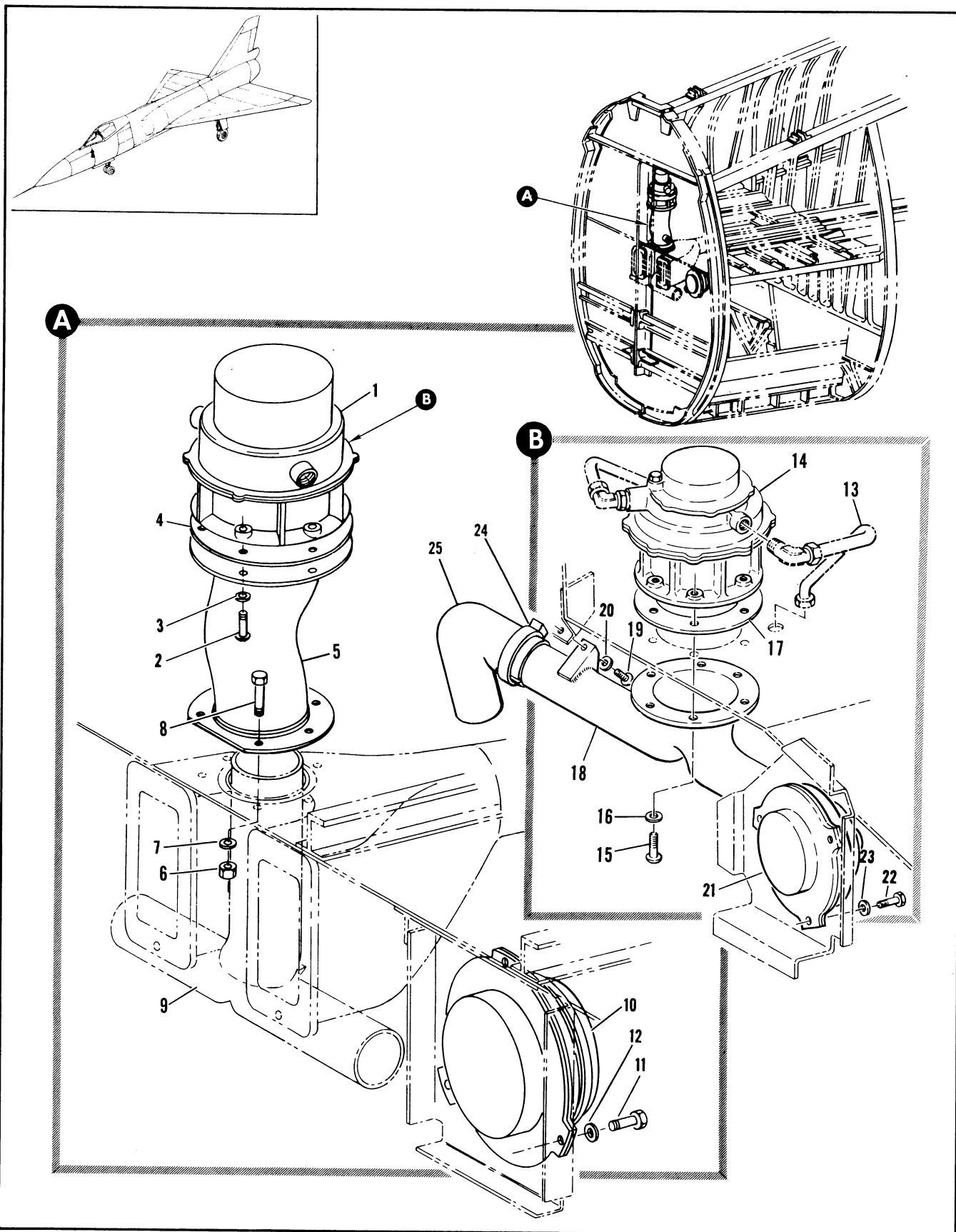


Figure 2.13-4. Cockpit Air Pressure Regulator



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-4	8-23320-3	COCKPIT AIR PRESSURE REGULATOR	RF		A
- 1	102204-2	• REGULATOR INSTL, COCKPIT AIR PRESSURE FOR NHA SEE FIG. 2.3-4 • VALVE ASSY, OUTFLOW COCKPIT AIR <70210> SPEC 8-02257-3 T.O. 15A2-3-14-23 REPLACED BY SUITABLE SUR 102204-4 ATTACHING PARTS	1		A
- 2	AN526-1032R12	• SCREW	6		A
- 3	AN960-10L	• WASHER	6		A
- 4	8-23361	• GASKET, REPLACED BY NOT INTCHG WITH 8-87272	1		A
- 5	8-23301-9	• SUPPORT ATTACHING PARTS	1		A
- 6	NAS679A3	• NUT	5		A
- 7	AN960-10L	• WASHER	5		A
- 8	AN3-5A	• BOLT	5		A
- 9		• DUCT ASSY, ELECTRONIC COOLING TEE STA 105 SEE FIG. 2.13-5	RF		
	8-23320-5	• CONTROL INSTL, COCKPIT AIR PRESSURE REGULATOR FOR NHA SEE FIG. 2.3-4	RF		A
- 10	102020-60	• CONTROL, COCKPIT AIR PRESSURE REGULATOR <70210> SPEC 8-02257-5 T.O. 15A1-2-12-123 ATTACHING PARTS	1		A
- 11	AN3-4A	• BOLT	3		A
- 12	AN960-10L	• WASHER	3		A
	8-23865	• REGULATOR INSTL, COCKPIT AIR PRESSURE FOR NHA SEE FIG. 2.3-4	RF		R
- 13		• TUBING INSTL, LOW PRESSURE PNEUMATIC SEE FIG. 2.9-4	RF		
- 14	102204-4	• VALVE ASSY, AIR OUTFLOW <70210> SPEC 8-02257-7 T.O. 15A2-3-14-33 REPLACES SUITABLE SUR FOR 102204-2 ATTACHING PARTS	1		B
- 15	AN526-1032R12	• SCREW	6		B
- 16	AN960-10L	• WASHER	6		B
- 17	8-87272	• GASKET, REPLACES NOT INTCHG WITH 8-23361	1		B
- 18	8-23862	• DUCT ASSY, COCKPIT DISCHARGE WELDED ATTACHING PARTS	1		B
- 19	AN526-1032R10	• SCREW	32		B
- 20	AN960-10L	• WASHER	32		B
- 21	102020-60	• CONTROL, COCKPIT AIR PRESSURE REGULATOR <70210> SPEC 8-02257-5 T.O. 15A1-2-12-123 ATTACHING PARTS	1		B
- 22	AN3-4A	• BOLT	3		B
- 23	AN960-10L	• WASHER	3		B
	7242863-10	DUCT INSTL, BATTERY CHARGER EXTENDER	1		B
- 24	AN737TW82	• CLAMP	1		B
- 25	7242942-01	• DUCT	1		B
		A AIRPLANES #35 THRU 47 AND 49 THRU 89 B AIRPLANES #48, 90 AND ON			

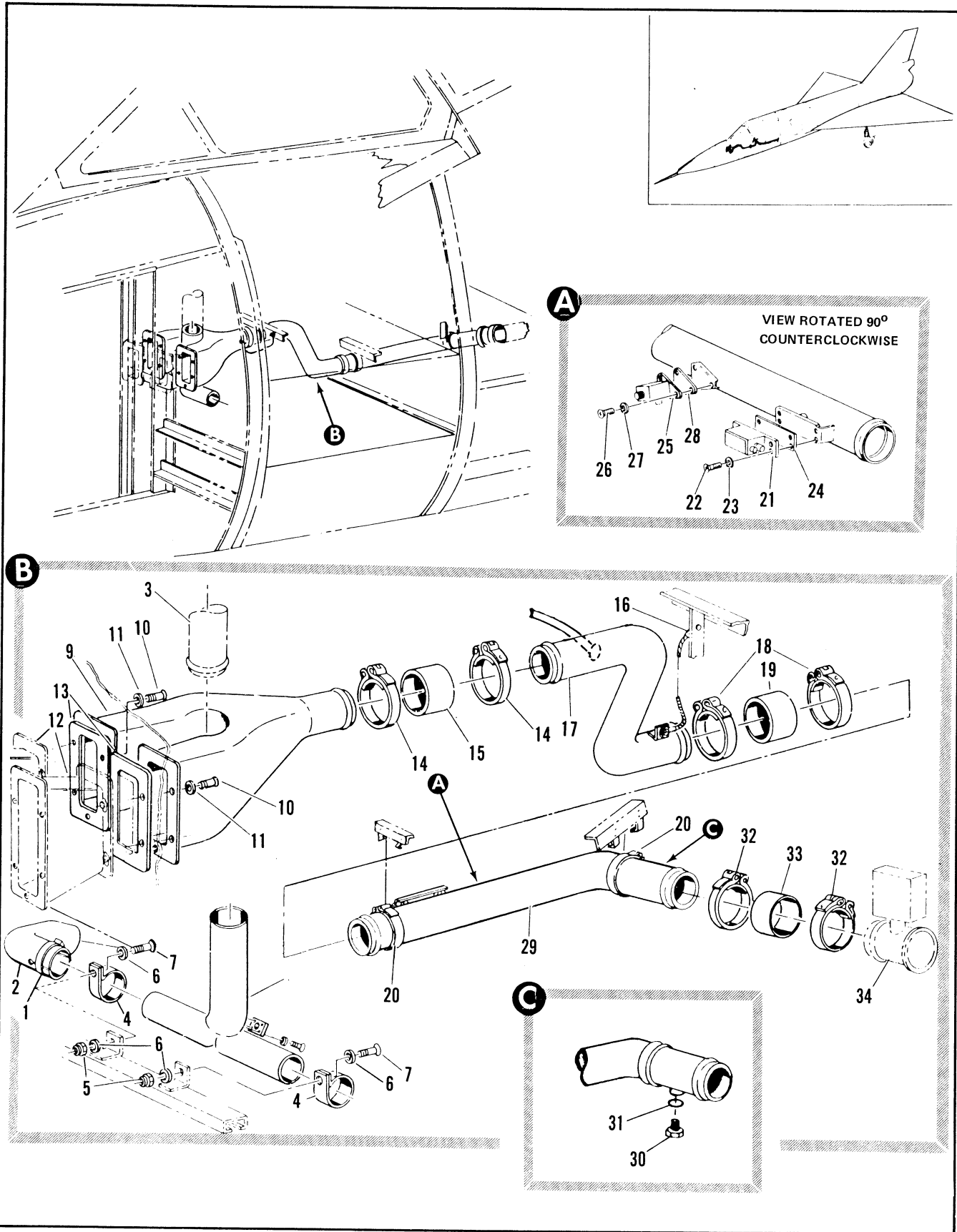


Figure 2.13-5. Forward Radar Compartment Cooling Duct Installation Sta 102 to 168 (Sheet 1 of 2)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-5	7242862-10	DUCT INSTL, BATTERY CHARGER EXTENDER	1	B	
- 1	AN737TW82	• CLAMP	1	B	
- 2	7242941-01	• DUCT	1	B	
- 3		• SUPPORT, SEE FIG. 2.13-5 INDEX 7	RF		
- 4	91-98017-034	• CLAMP, 0936DL36 ATTACHING PARTS	2	B	
- 5	NAS679A3	• NUT	2	B	
- 6	AN960C10L	• WASHER	4	B	
- 7	AN520C10R12	• SCREW	2	B	
- 8	8-23506-1	• DUCT ASSY, ELECTRONIC COOLING TEE STA 135 WELDED	1	B	
- 9	8-20805-7	• DUCT ASSY, FWD RADAR COMPARTMENT COOLING OUTLET WELDED	1	B	
	8-21893-23	• DUCT ASSY, FWD RADAR COMPARTMENT COOLING OUTLET WELDED	1	B	
	7242870-10	PIPE INSTL, NOSE WHEEL WELL FOR NHA SEE FIG. 2.3-4	RF	B	
	64D34199-1	• DUCT ASSY, FWD RADAR COMPARTMENT COOLING INLET, WELDED REPLACED BY SUITABLE SUB 64D34199-3	1		
	64D34199-3	• DUCT ASSY, FWD RADAR COMPARTMENT COOLING INLET, WELDED, REPLACES SUITABLE SUB FOR 64D34199-1 ATTACHING PARTS	1		
- 10	AN520-8R8	• SCREW	10	B	
- 11	AN960C8L	• WASHER	10	B	
- 12	651009-1	• DUCT ASSY, FLEX RUBBER <82577> FURNISHED WITH <82577> 464073 LH AND 464273 SERIES MB-1 RADAR RACKS	RF	B	
- 13	8-23507	• GASKET, ELECTRONIC COOLING STA 102	2	B	
- 14	326-62-325S	• CLAMP, <98625> 91-97801-025	2	B	
- 15	AD297-3	• COUPLING, <92799> SPEC 8-00297-3	1	B	
- 16	MS25083-2BB6	• JUMPER, STA 133 ATTACHING PARTS	1	B	
	AN345C10	• NUT, GROUND STUD	4	B	
	AN935-10L	• WASHER, GROUND STUD	4	B	
	AN960D10L	• WASHER, GROUND STUD	4	B	
	AN960C10L	• WASHER, GROUND STUD	4	B	
	AN526C1032-12	• SCREW, GROUND STUD	2	B	
- 17	8-23501 *5	• DUCT ASSY, WELDED	1	B	
	778814-10 *6	• DUCT ASSY, ALTERED FROM 8-23501	1	B	
- 18	326-62-325S	• CLAMP, <98625> 91-97801-025	2	B	
- 19	AD297-3	• COUPLING, <92799> SPEC 8-00297-3	1	B	
- 20	326-62-312S	• CLAMP, <98625> 91-97801-004	2	B	
- 21	67D36655-1	• DETECTOR, AIR COOLING (98750) MODIFICATION OF 25830021 (80234)	1		
	67B36656-1	• PLATE IDENTIFICATION ATTACHING PARTS	1		
- 22	NAS623-3-4	• SCREW	4		
- 23	AN960PD10L	• WASHER	4		
		----X----			
		A AIRPLANES #35 THRU 47 AND 49 THRU 60 B AIRPLANES #35 THRU 47 AND 49 THRU 89			

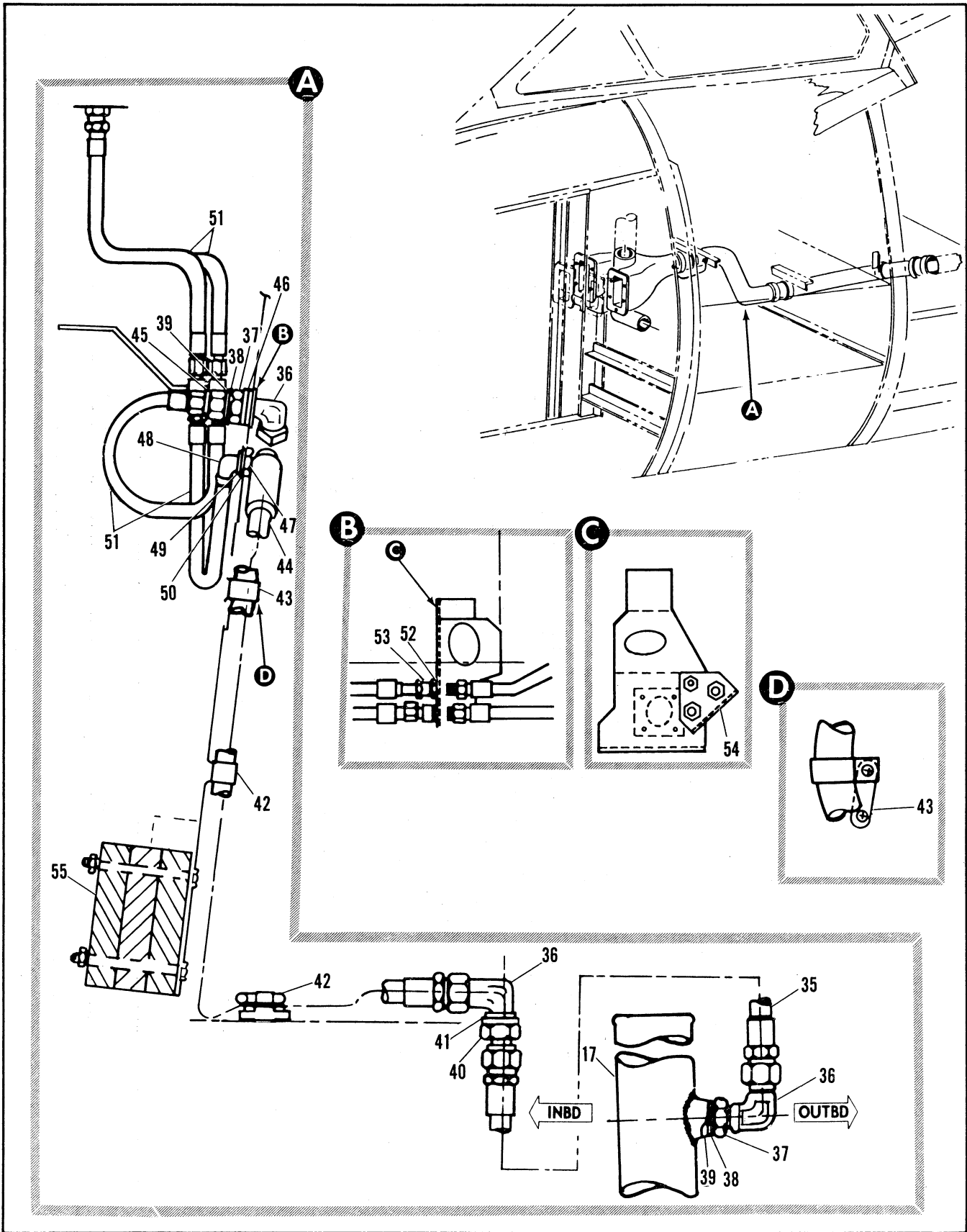


Figure 2.13-5. Forward Radar Compartment Cooling Duct Installation Sta 102 to 168 (Sheet 2 of 2)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-5- 24	B-23965-1	• GASKET	1	B	
- 25	25820031	• SENSOR, HIGH TEMPERATUER <R0234> SPEC R-02948-3 ATTACHING PARTS	1		
- 26	NAS623-2-4	• SCREW	3		
- 27	AN960PD&L	• WASHER	3		
		----X----			
- 28	B-23965-3	• GASKET	1	B	
- 29	64E34297-1	• DUCT ASSY	1	B	
- 30	AN814-6DL	• PLUG	1	B	
- 31	MS2877A-6	• GASKET	1	B	
- 32	326-62-325S	• CLAMP, <98625> 91-97801-025	2	B	
- 33	AD297-3	• COUPLING, <92799> SPEC R-02297-3	1	B	
- 34		• VALVE, RAM AIR COOLING SEE FIG. 2.13-8 INDEX 3	RF		
	7748809	*R HOSE INSTALLATION I.R. COOLING SYSTEM		B	
- 35	AN6270-8D-160	• HOSE ASSEMBLY	1	B	
- 36	AN833-8D	• ELBOW	1	B	
- 37	AN62890-8	• NUT	1	B	
- 38	MS28777-8	• WASHER	1	B	
- 39	MS28778-8	• PACKING	1	B	
- 40	AN924-8D	• NUT	1	B	
- 41	AN960PD1216	• WASHER	2	B	
- 42	MS21104012	• CLAMP	1	B	
		ATTACHING PARTS			
	NAS1635-3-8	SCREW	1	B	
	AN960C1CL	WASHER	1	B	
	NAS1291-C3	NUT	2	B	
		----X----			
- 43	7748808-01	• CLUP	1	B	
		ATTACHING PARTS			
	MS21104012	CLAMP	1	R	
	NAS1635-3-8	SCREW	2	B	
	NAS1291-C3	NUT	2	B	
- 44	7748804-10	• HOSE ASSEMBLY	1	B	
- 45	AN89408-4	• BUSHING	1	R	
- 46	AN960PD1216	• WASHER	1	B	
- 47	AN924-4D	• NUT	3	B	
- 48	7748812-10	• ELPOW, ALTERED FROM AN833-4D	1	B	
- 49	AN960PD914	• WASHER	2	R	
- 50	AN960PD716L	• WASHER	2	R	
- 51	AN627-4D-0120	• HOSE ASSEMBLY	1	B	
- 52	AN924-4D	NUT	2	R	
- 53	AN832-4D	UNION	2	B	
- 54	7748819-01	CLIP	1	R	
		ATTACHING PARTS			
	MS51056-53	SCREW	1	B	
	NAS1070-416	WASHER	1	B	
	MS21042-3	NUT	1	B	
		----X----			
- 55	7748817-01	• BALLAST ASSEMBLY	1	B	
		ATTACHING PARTS			
	AN4H35A	BOLT	4	R	
	AN970-4	WASHER	4	R	
	NAS1070-416	WASHER	4	R	
	MS21042-4	NUT	4	B	
		----X----			

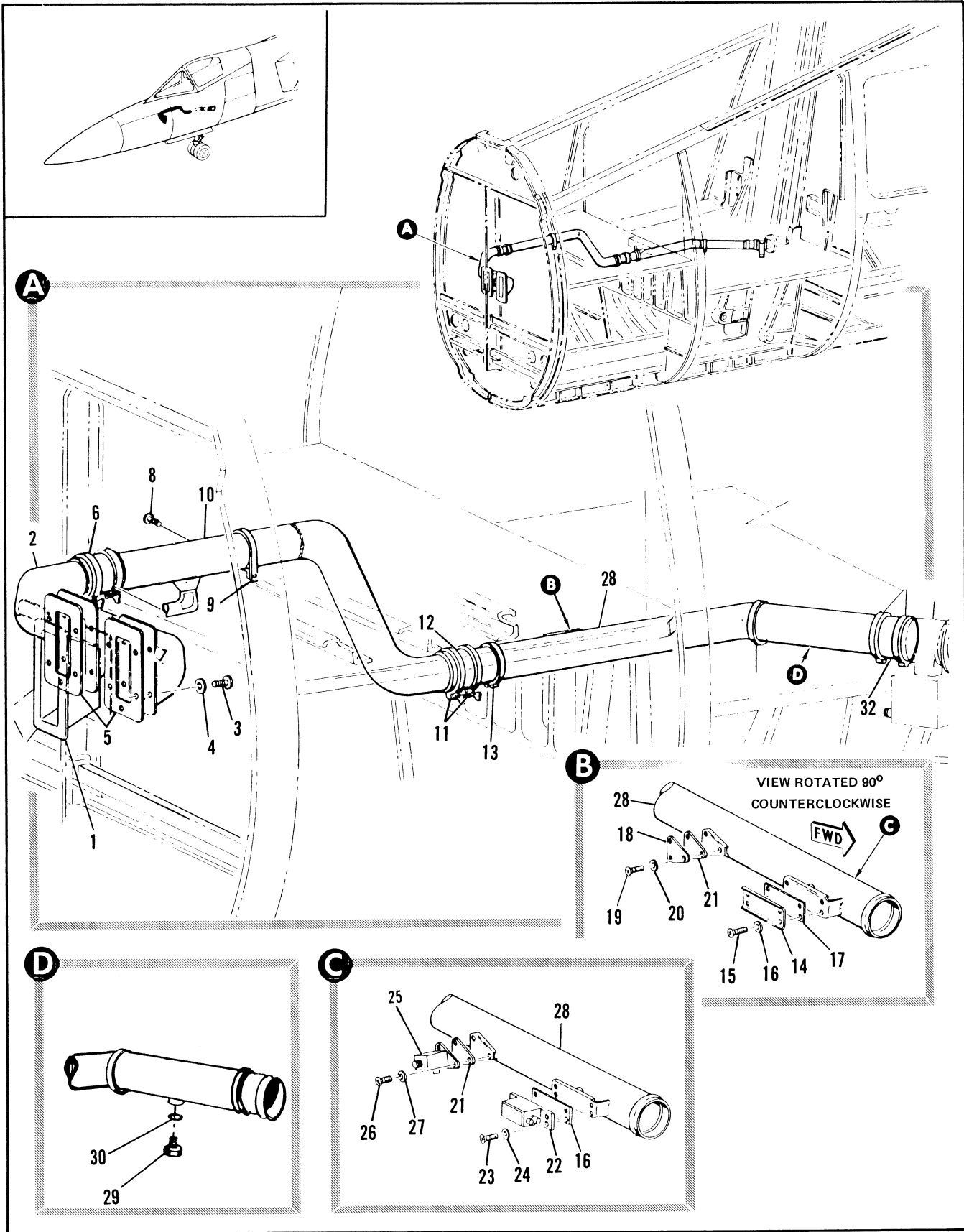


Figure 2.13-6. Forward Radar Compartment Cooling Duct Installation Sta 102 to 168 (Sheet 1 of 2)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-6	8-23500-807	DUCT INSTL, FWD RADAR COMPT COOLING STA 102 TO 168 MODIFIED BY 8-21892, 8-90160 AND 67036603 FOR NHA SEE FIG 2.3-4	RF	B	
	7242469-10	*1 PIPE INSTL, FWD ELECTRONIC COMPARTMENT FOR NHA SEE FIG. 2.3-4	RF	B	
- 1	651009-1	• DUCT ASSY, FLEX RUBBER <R2577> FURNISHED WITH <32577> 464073 LH AND 464273 RH SERIES MP-1 FORWARD RADAR RACKS	RF	B	
- 2	64034286-1	• DUCT ASSY, MANIFOLD INLET, FWD ELECTRONICS COMPARTMENT, WELDED REPLACED BY SUITABLE SUB 64034286-3	1		
	7242922-01	• PIPE ATTACHING PARTS	1	B	
- 3	AN520-8R8	• SCREW	10	B	
- 4	AN960CPL	• WASHER	10	B	
		-----X-----			
- 5	8-23507	• GASKET	2	B	
- 6	AN737TW91	• CLAMP	2	B	
- 7	NAS521-20-12	• COUPLING	1	R	
- 8	AN520-10R8	• SCREW	1	R	
- 9	8-23500-45	• CLAMP	1	B	
- 10	8-23860	• DUCT ASSY, WELDED	1	B	
	7748811-10	• DUCT ASSY, WELDED, ALTERED FROM 8-23860	1	B	
- 11	AN737TW56	• CLAMP	2	B	
	326-62-325S	• CLAMP, <98625> 91-97801-025 ALT INTCHG WITH AN737TW56	RF	B	
- 12	AD297-3	• COUPLING, <92799> SPEC 8-00297-3	1	B	
- 13	326-62-212S	• CLAMP, <98625> 91-97801-004	2	B	
- 14	8-23864-7	• CAP	1	C	
		• CAP			
- 15	NAS623-3-2	• SCREW	4	C	
- 16	AN960PD10L	• WASHER	4	C	
		-----X-----			
- 17	8-23865-1	• GASKET	1	B	
- 18	8-23864-9	• CAP	1	C	
		ATTACHING PARTS			
- 19	NAS623-3-2	• SCREW	3	C	
- 20	AN960PD10L	• WASHER	3	C	
		-----X-----			
- 21	8-23865-3	• GASKET	1	R	
- 22		• DETECTOR, DEFICIENT COOLING (80234) MOD BY 67036655-1	1	B	
		ATTACHING PARTS			
- 23	NAS623-3-4	• SCREW	4	130	
- 24	AN960PD10L	• WASHER	4	130	
		-----X-----			

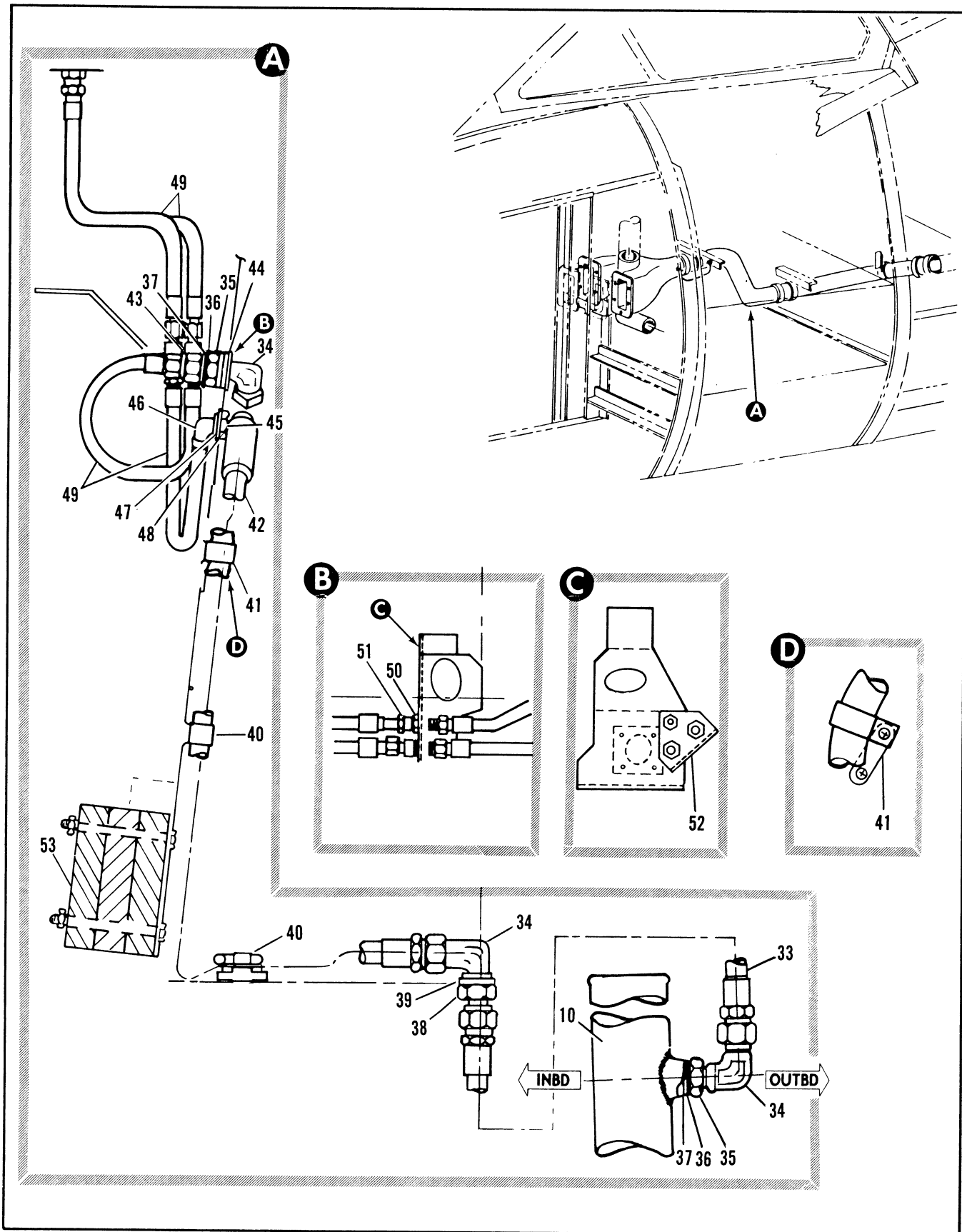


Figure 2.13-6. Forward Radar Compartment Cooling Duct Installation Sta 102 to 168 (Sheet 2 of 2)



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION 1 2 3 4 5 6	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-6- 25	25820031	• SENSOR, HIGH TEMPERATURE (80234) SPEC 8-02948-3 T.O. 5A5-4-3-3 ATTACHING PARTS	1	130	
- 26	NAS623-2-4	• SCREW	3	130	
- 27	AN960PDL	• WASHER	3	130	
- 28	64E34297-1	• DUCT ASSY	1	B	
- 29	AN814-EDL	• • PLUG	1	B	
- 30	MS28778-6	• • GASKET	1	B	
- 31	326-62-325S	• CLAMP, (98625) 91-97801-325	2	B	
- 32	AN297-3	• COUPLING (92799) SPEC 8-0297-3	1	B	
- 33	AN6270-RD-120	• HOSE ASSEMBLY	1	B	
- 34	AN833-RD	• ELBOW	1	B	
- 35	AN62890-8	• NUT	1	B	
- 36	MS28777-8	• WASHER	1	B	
- 37	MS28778-R	• PACKING	1	B	
- 38	AN924-8D	• NUT	1	B	
- 39	AN960PD1216	• WASHER	2	B	
- 40	MS21104-012	• CLAMP	1	B	
		ATTACHING PARTS			
	NAS1635-3-8	SCREW	1	B	
	AN960C10L	WASHER	1	B	
	NAS1291-C3	NUT	2	B	
		----X----			
- 41	7748808-01	• CLIP	1	B	
		ATTACHING PARTS			
	MS21104012	CLAMP	1	B	
	NAS1635-3-8	SCREW	2	B	
	NAS1291-C3	NUT	2	B	
- 42	7748804-10	• HOSE ASSEMBLY	1	B	
- 43	AN89408-4	• PUSHING	1	B	
- 44	AN960PD1216	• WASHER	1	B	
- 45	AN924-4D	• NUT	3	B	
- 46	7748812-10	• ELBOW, ALTERED FROM AN833-40	1	B	
- 47	AN960PD916	• WASHER	2	B	
- 48	AN960PD716L	• WASHER	2	B	
- 49	AN6270-4D-0120	• HOSE ASSEMBLY	1	B	
- 50	AN924-4D	NUT	2	B	
- 51	AN832-4D	UNION	2	B	
- 52	7748819-01	CLIP	1	B	
		ATTACHING PARTS			
	MS51958-63	SCREW	1	B	
	NAS1070-416	WASHER	1	B	
	MS21042-3	NUT	1	B	
		----X----			
- 53	7748817-01	BALLAST ASSEMBLY	1	B	
		ATTACHING PARTS			
	AN4H35A	BOLT	4	B	
	AN970-4	WASHER	4	B	
	NAS1070-416	WASHER	4	B	
	MS21042-4	NUT	4	B	
		ATTACHING PARTS			
		B 4R, 90 AND ON			

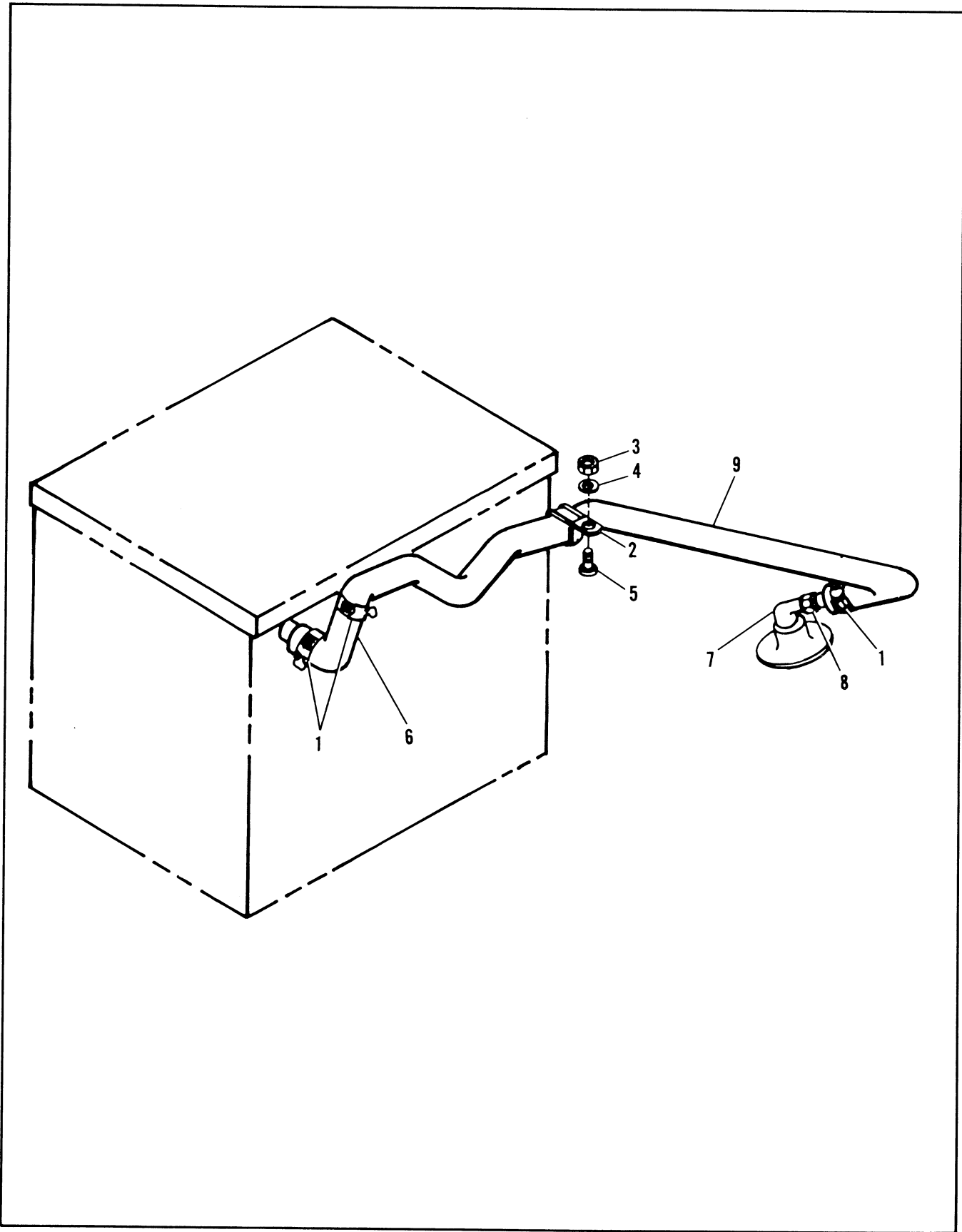


Figure 2.13-7. RH NWW Battery Vent Installation

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION 1 2 3 4 5 6	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-7	7242864-10	VENT INSTL, RH NWW BATTERY	1	35	
- 1	AN737TW30	• CLAMP	3	35	
- 2	MS21919WDF11	• CLAMP	1	35	
		ATTACHING PARTS			
- 3	MS21042-08	• NUT	1	35	
- 4	AN960PDR	• WASHER	2	35	
- 5	MS35206-242	• SCREW	1	35	
		----X----			
- 6	9555A	• ELBOW, RUBBER (74144)	1	35	
- 7	MS25822-8J	• ELBOW	1	35	
- 8	7242865-10	• TUBE ASSY	1	35	
- 9	7242874-10	• HOSE	1	35	

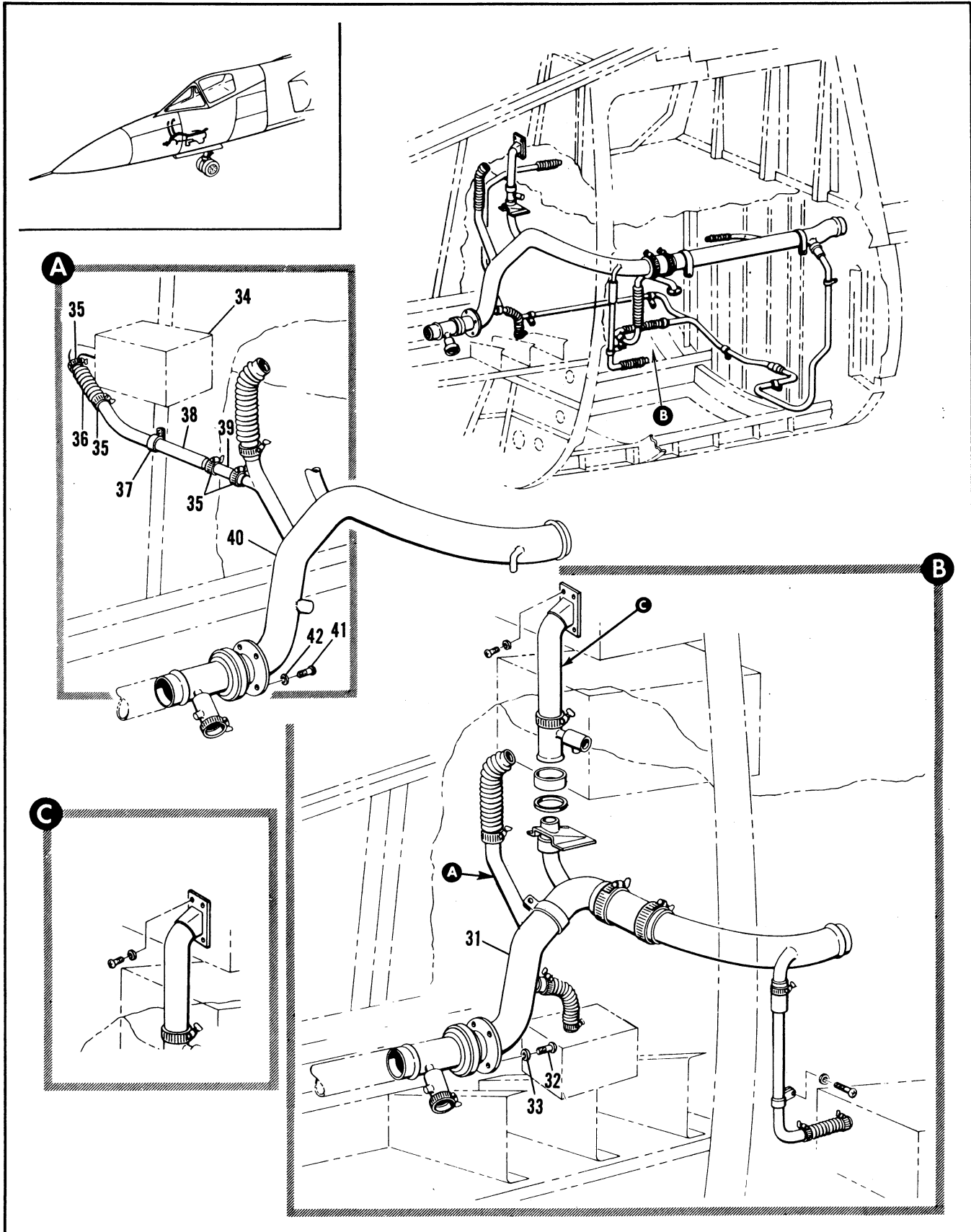


Figure 2.13-8. Aft Electronic Compartment Cooling Duct Installation (Sheet 2 of 4)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION 1 2 3 4 5 6	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-8- 31	64D34279-1	• DUCT ASSY, ELECTRONIC COOLING WELDED ALTERED FROM 8-21893-7 ATTACHING PARTS	1		
- 32	AN520C10R8	• SCREW	4	35	129
- 33	AN960C10L	• WASHER	4	35	129
		-----X-----			
- 34	464220-150	• CONVERTER, DATA LINK TYPE CV703/ARR61 AERNO-1-8222 GFAE SEE FIG. 2.18-20 INDEX 43	PF	160	
- 35	AN757TW46	• CLAMP	4	160	
- 36	3-1664-8-33-6	• DUCT, FLEX <7562R> 94-80005-013	1	160	
- 37	AN742016	• CLAMP	1	160	
		ATTACHING PARTS			
	AN520-10P7	• SCREW	1	160	
		-----X-----			
- 38	64D34273-1	• TUBE ASSY, DATA LINK CONVERTER COOLING INLET WELDED ALTERED FROM 8-23871	1	35	
- 39	NAS521-8-12	• COUPLING	1	35	
- 40	64D34276-1	• DUCT ASSY, ELECTRONIC COOLING WELDED ALTERED FROM 8-23581-3 ATTACHING PARTS	1	130	
- 41	AN520C10R8	• SCREW	4	130	
- 42	AN960C10L	• WASHER	4	130	
		-----X-----			

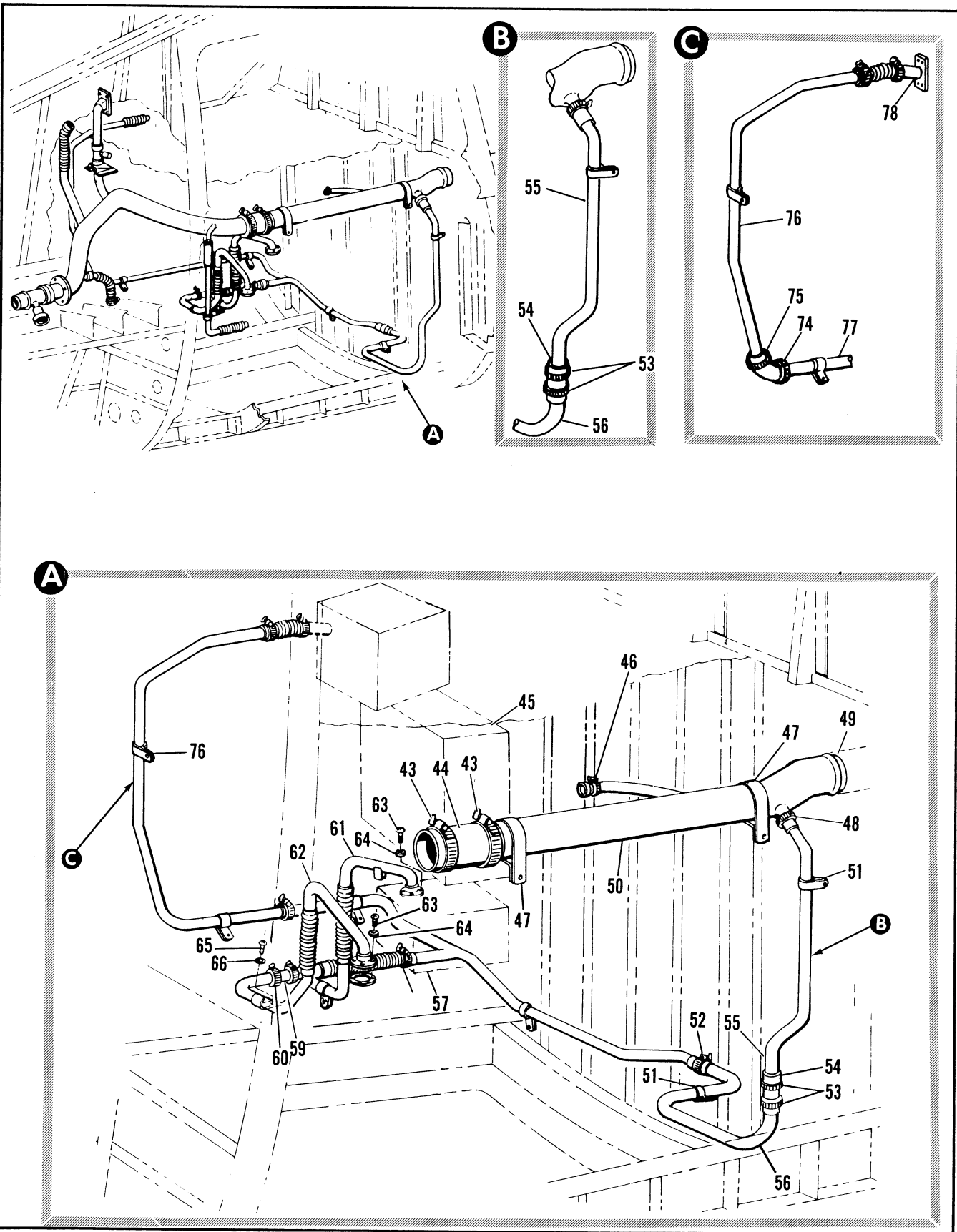


Figure 2.13-8. Aft Electronic Compartment Cooling Duct Installation (Sheet 3 of 4)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-8- 43	AN737TW107	• CLAMP	2	35	
- 44	AD297-3	• COUPLING, <92799> SPEC 8-00297-3	1	35	
- 45		• CODER-DECODER, IFF TRANSPONDER	RF		
- 46	AN737TW38	• CLAMP	2	35	
- 47	AN742D48	• CLAMP	2	35	
		ATTACHING PARTS			
	AN526-1032R8	• SCREW	2	35	
	AN960PD10L	• WASHER	2	35	
		----X----			
- 48	AN737TW58	• CLAMP	1	35	
- 49		• DUCT ASSY, ELECTRONIC COOLING	RF		
		SEE FIG. 2.13-9			
- 50	7242933-10	• DUCT ASSY, WELDED	1	35	
- 51	AN742D24	• CLAMP	1	35	
		ATTACHING PARTS			
	NAS679A3	• NUT	1	35	
	AN960PD10L	• WASHER	2	35	
	NAS43DD3-20	• SPACER	1	35	
	AN526-1032R12	• SCREW	1	35	
	AN526-1032R8	• SCREW	1	35	
		----X----			
- 52	AN737TW58	• CLAMP	1	35	
- 53	AN737TW58	• CLAMP	2	35	
- 54	NAS521-12-12	• COUPLING	1	35	
- 55	7242930-10	• TUBE ASSY	1	35	
- 56	7243031-10	• TUBE ASSY	1	35	
- 57		• RECEIVER-TRANSMITTER, IFF RADIO	RF		
- 58	AN737TW38	• CLAMP	3	A	
- 59	8-23840-47	• SLEEVE	1	A	
- 60	64D34281-1	• TUBE ASSY, IFF RADIO RECEIVER COOLING	1		
		INLET WELDED ALTERED FROM CR785-803			
		(82830) SPEC 8-02922-803			
- 61	3010-1	• DUCT ASSY, FLEX (97100) SPEC	1	49	215
		8-02922-1 REPLACED BY SUITABLE			
		SUB CR735-801			
	64D34280-1	• TUBE ASSY, IFF RADIO RECEIVER	1	35	
		COOLING WELDED ALTERED FROM			
		CR735-801 (82830) SPEC			
		8-02922-801			
- 62	3010-5	• DUCT ASSY, FLEX (97100) SPEC			
		8-02922-5			
	64D34281-1	• TUBE ASSY, IFF RADIO RECEIVER	1	35	
		COOLING INLET WELDED ALTERED			
		FROM CR735-803 (82830)			
		SPEC 8-02922-803			
		ATTACHING PARTS			
- 63	AN515DD8R6	• SCREW	8	49	
- 64	AN960PD8L	• WASHER	8	49	
	AN515DD6R6	• SCREW	8	35	47
	AN960PD6L	• WASHER	8	35	47
- 65	NAS221-6	• SCREW	1	35	47
- 66	AN935-10	WASHER, LOCK	1	35	47
		----X----			

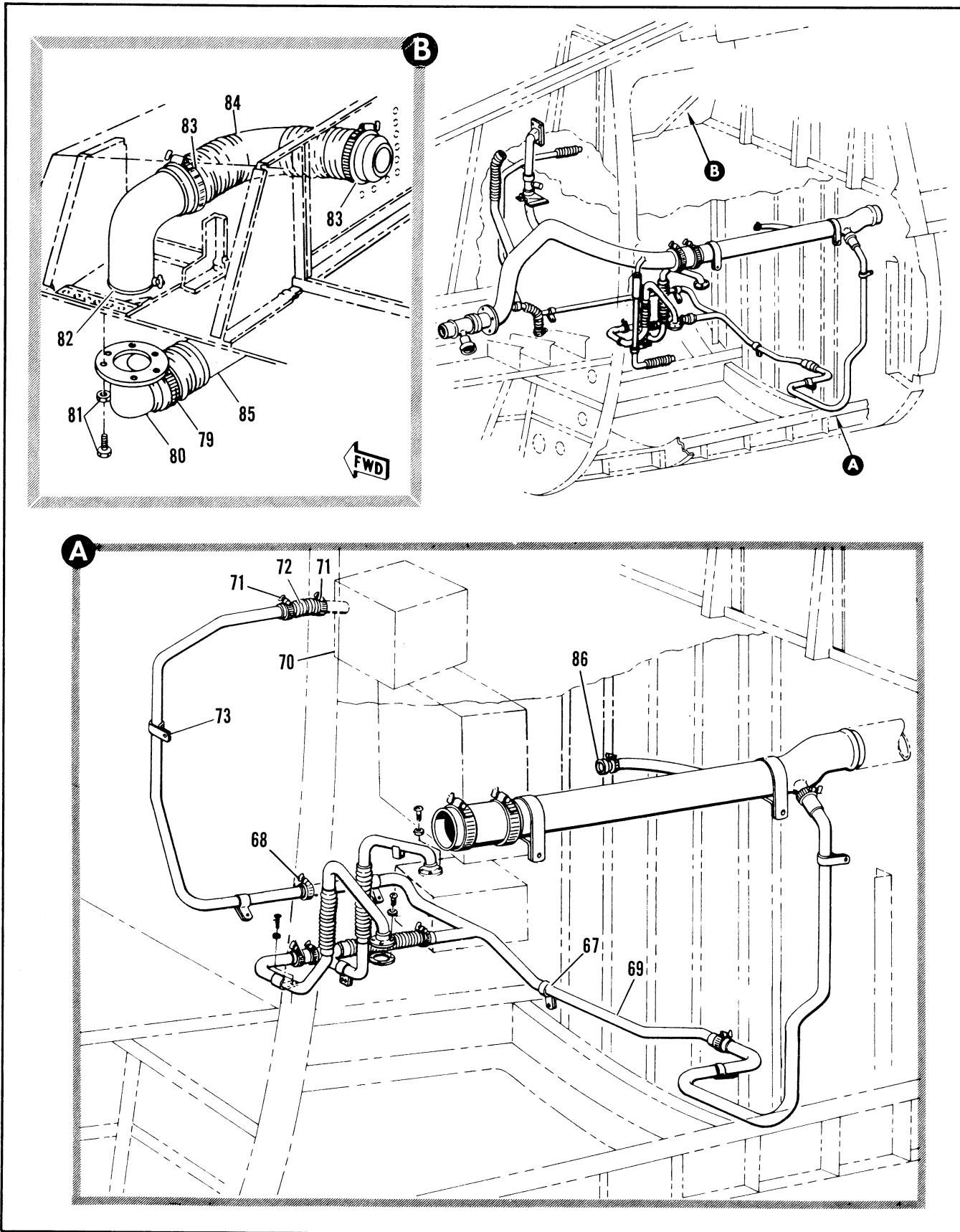


Figure 2.13-8. Aft Electronic Compartment Cooling Duct Installation (Sheet 4 of 4)



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-8- 67	AN742D24	• CLAMP ATTACHING PARTS	2	35	
	AN526-1032R8	• SCREW	2	35	
	AN960PD10L	• WASHER ----X----	2	35	
- 68	AN737TW38	• CLAMP	1	35	
- 69	7242931-10	• TUBE ASSY	1	35	
- 70		• AMPLIFIER, NAVIGATION AND LANDING APPROACH COMPUTER	RF		
- 71	AN737TW58	• CLAMP	2	35	
- 72	NAS1376A06SD014	• DUCT, FLEX	1	35	
- 73	AN742D24	• CLAMP ATTACHING PARTS	1	35	
	AN526-1032R8	• SCREW	2	35	
	AN960PD10L	• WASHER ----X----	2	35	
- 74	AN742D24	• CLAMP ATTACHING PARTS	2	35	
	MS21045L3	• NUT	1	35	
	AN960PD10L	• WASHER	2	35	
	AN526-1032R8	• SCREW ----X----	2	35	
- 75	AN737TW38	• CLAMP	2	35	
- 76	7242932-10	• TUBE ASSY	1	35	
- 77	7243037-10	• TUBE ASSY	1	35	
- 78	7242884-10	• CONNECTION STRAIGHT, FLANGED HOSE ATTACHING PARTS	1	35	
	AN4-6A	• BOLT	4	35	
	AN960D4-10	• WASHER	4	35	
	7242890-01	• GASKET ----X----	4	35	
- 79	902-287	• CLAMP (98625)	1		
- 80	67E36567-1	• PIPE, AIR CONDITIONING • HEATING GROUND COOLING AIR ATTACHING PARTS	1		
- 81	MS35207-264	• SCREW	6		
	AN960PD-10	• WASHER ----X----	6		
- 82	66E40085-1	• DUCT, OUTLET GROUND AIR	1		
- 83	AN737TW9R	• CLAMP	2		
- 84	NAS1374A11S048	• DUCT	1		
- 85		• RACK, ELECTRONIC EQUIPMENT (#2577) GFAE SEE FIG. 2.18-21 INDEX 6	RF		
- 86	NAS521-8-10	• SLEEVE	2	35	

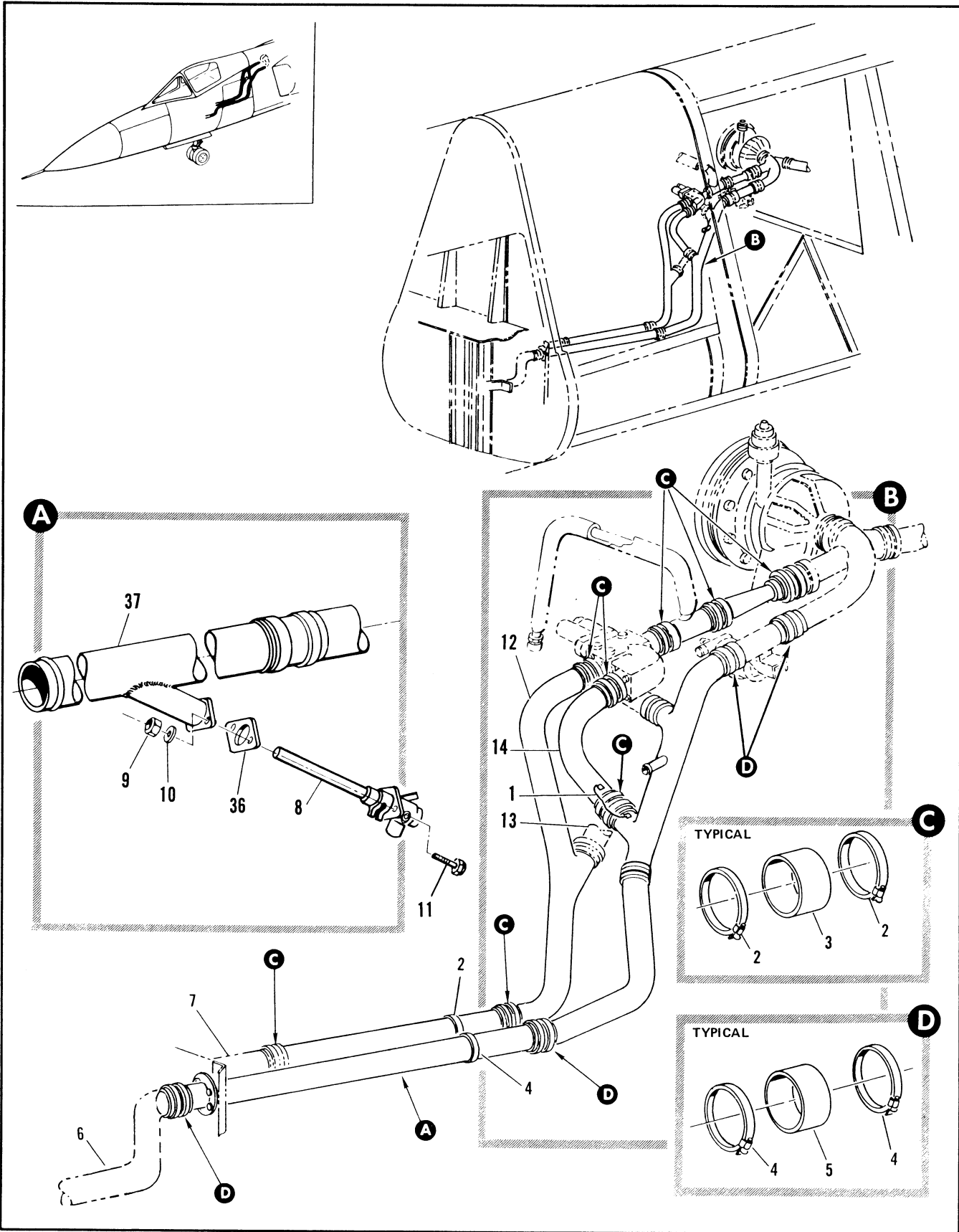


Figure 2.13-9. Forward Radar Compartment and Cockpit Cooling Duct Installation (Sheet 1 of 4)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-9	8-23520-801	DUCT INSTALLATION, FWD RADAR COMPARTMENT AND COCKPIT COOLING FOR NHA SEE FIG. 2.3-9	PF	35	
- 1	MS25083-2BB6	• JUMPER, STA 263	1	35	89
	MS25083-3SR	• JUMPER, STA 263	1	90	
	MS25083-3FR3	• JUMPER, STA 263	1	90	
		ATTACHING PARTS			
	AN345-10	• NUT, GROUND STUD	2	35	
	AN935-10L	• WASHER, GROUND STUD	4	35	
	AN960-10L	• WASHER, GROUND STUD	4	35	
	AN960D10L	• WASHER, GROUND STUD	4	35	
	AN526-1032R12	• SCREW, GROUND STUD	2	35	
		----X----			
- 2	AN737TW74	• CLAMP	17	35	
- 3	AD297-7	• COUPLING, <92799> SPEC 8-00297-7	8	35	
- 4	AN737TW107	• CLAMP	9	35	
- 5	AD297-3	• COUPLING, <92799> SPEC 8-00297-3	4	35	
- 6		• DUCT ASSY, FWD ELECTRONIC STA 168 TO 203 SEE FIG. 2.13-8	RF		
- 7		• DUCT, SEE FIG. 2.13-15	RF		
	AN3-3A	• BOLT	5	35	240
	AN960D10L	• WASHER	5	35	240
		----X----			
- 8	107890-1	• THERMOSTAT ASSY, MOISTURE SEPARATOR OUTLET HOT AIR BYPASS (99193) SPEC 8-09989-1	1	241	
- 9	NAS679A3	• NUT	2	241	
- 10	AN960D10L	• WASHER	2	241	
- 11	NAS1103-5	• BOLT	2	241	
		----X----			
- 12	8-23351-1	• DUCT ASSY, COCKPIT COOLING WELDED	1		
- 13		• DUCT INSTL, RAM AIR SEE FIG. 2.13-1	RF		
- 14	8-23352	• DUCT ASSY, DIVERTER ELBOW WELDED	1	35	38
	8-23352-1	• DUCT ASSY, ALT INTCHG WITH 8-23352 REPLACED BY SUITABLE SUB 8-23352-5	RF	35	38
	8-23352-3	• DUCT ASSY, DIVERTER ELBOW WELDED	1	39	
	8-23352-5	• DUCT ASSY, ALT INTCHG WITH 8-23352-3 REPLACES SUITABLE SUB FOR 8-23352-1	RF	39	

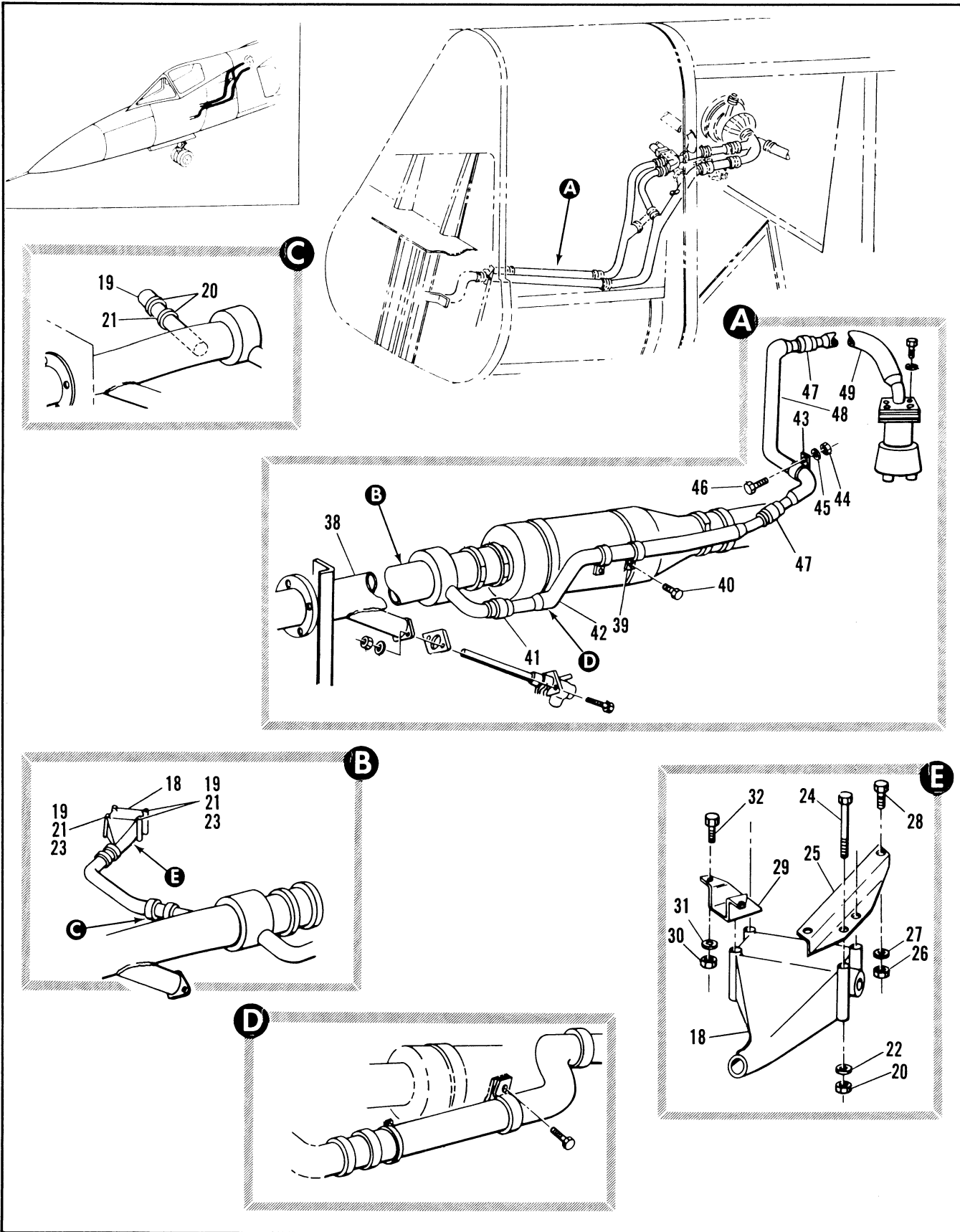


Figure 2.13-9. Forward Radar Compartment and Cockpit Cooling Duct Installation (Sheet 2 of 4)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-9- 15	AN737RM34	• CLAMP	4		
	AN737TW34	• CLAMP	4		
- 16	NAS521-6-10	• COUPLING	2		
- 17	64C34066-1	• TUBE, COOLING RAPID TUNE MAGNETRON	1		
- 18	8534130	• COOLER, AIR-OIL (27462) SPEC 8-08689-1 ATTACHING PARTS	1		
- 19	MS21042L3	• NUT	3		
- 20	MS21042L3	• NUT	4		
- 21	AN960C10	• WASHER	3		
- 22	AN960C10	• WASHER	4		
- 23	AN3-23A	• BOLT	3		
- 24	AN3-23A	• BOLT	4		
		-----X-----			
- 25	8-23864-11	• ANGLE ATTACHING PARTS	1		
- 26	MS21042L3	• NUT	2		
- 27	AN960C10	• WASHER	2		
- 28	AN3-3A	• BOLT	2		
		-----X-----			
- 29	8-23884-13	• HAT ATTACHING PARTS	1		
- 30	MS21042L3	• NUT	2		
- 31	AN960C10	• WASHER	2		
- 32	AN3-3A	• BOLT	2		
		-----X-----			
- 33	64C34295-1	• CAP	1		
- 34	AN737TW34	• CLAMP	2		
- 35	NAS521-6-10	• COUPLING	1		
- 36	8-238779-9	• GASKET	1	241	
- 37	8-23513-1	• DUCT ASSY, ELECTRONIC COOLING WELDED REPLACES NOT INTCHG WITH 8-23513 ATTACHING PARTS	1	241	
	AN3-3A	• BOLT	5	241	
	AN960D10L	• WASHER	5	241	
		-----X-----			
- 38	64E34054-1	• DUCT ASSY, MOISTURE SEPARATOR WELDED	1		
- 39	MS21919H20	• CLAMP ATTACHING PARTS	1		
- 40	AN3-3A	• BOLT	1		
		-----X-----			
- 41	NAS595-16	• RING	1		
- 42	63E35780-1	• DUCT ASSY, ELECTRONIC HOT AIR BYPASS WELDED	1		
- 43	MS21919H20	• CLAMP ATTACHING PARTS	1		
- 44	MS21042L3	• NUT	1		
- 45	AN960PD10L	• WASHER	1		
- 46	AN3-3A	• BOLT	1		
		-----X-----			
- 47	4185-12	• RING (98159)	2		
- 48	63E35692-1	• DUCT ASSY, ELECTRONIC HOT AIR BYPASS WELDED	1		
- 49	63E35694-1	• DUCT ASSY, ELECTRONIC HOT AIR BYPASS WELDED	1		

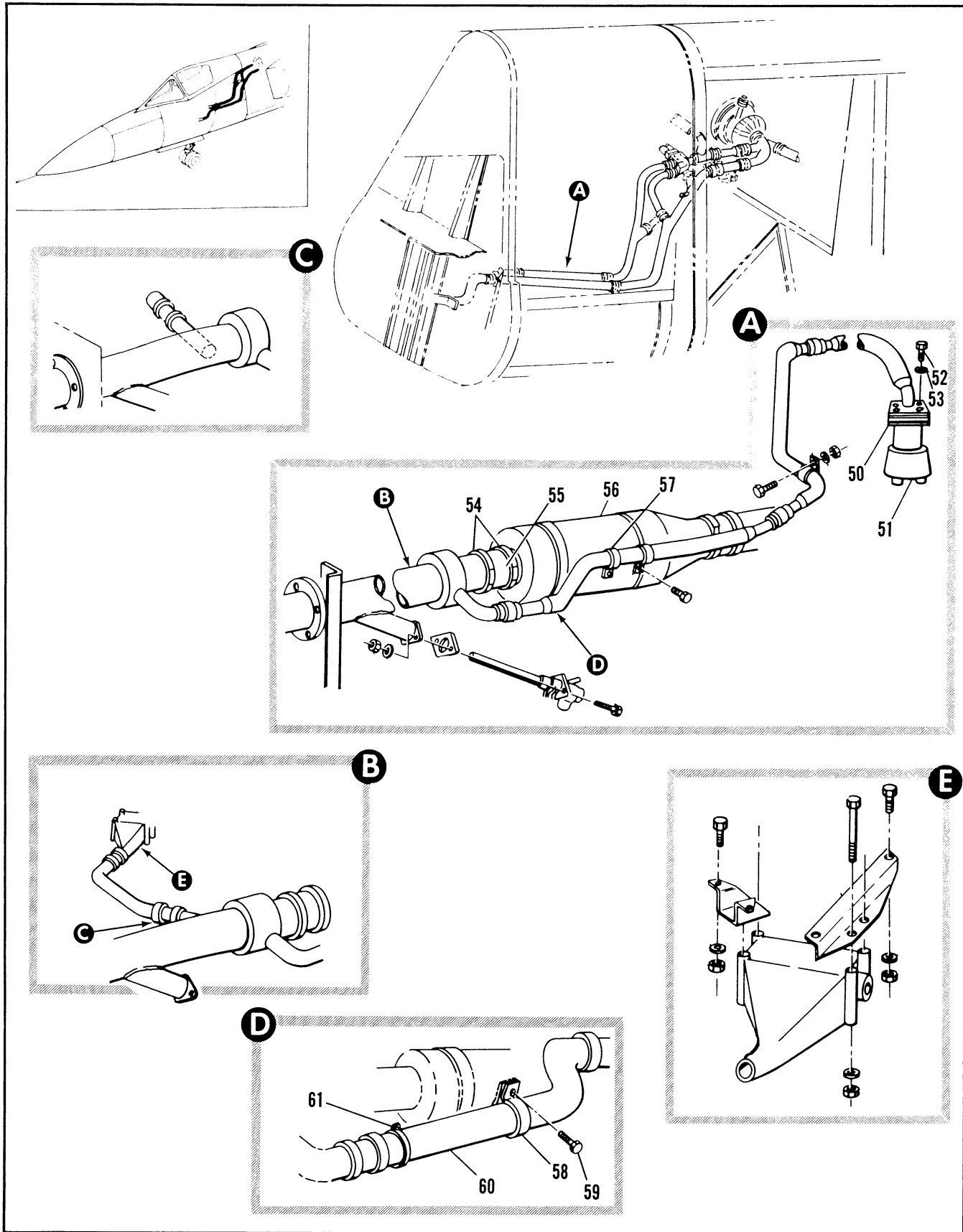


Figure 2.13-9. Forward Radar Compartment and Cockpit Cooling Duct Installation (Sheet 3 of 4)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION 1 2 3 4 5 6	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-9- 50	8-23879-7	• GASKET, <MADE FROM P/N 60-1-16X36X33>	2		
- 51	106780-1	• VALVE ASSY, MOSTURE SEPARATOR OUTLET HOT AIR BYPASS (99193) SPEC 8-09988-1 ATTACHING PARTS	1		
- 52	AN3-6A	• BOLT	4		
- 53	AN960C10L	• WASHER -----X-----	4		
- 54	AN737TW107	• CLAMP	2		
- 55	AD297-3	• COUPLING (92799) SPEC 8-00297-3	1		
- 56	HS595350-1	• SEPARATOR, MOISTURE AIRCRAFT AIR CONDITIONING SYSTEM SEE FIG. 2.13-1 INDEX 78-1	RF		
- 57	MS21919H19	• CLAMP ATTACHING PARTS	1		
	AN520-10R6	• SCREW	1		
	AN960-10	• WASHER	1		
	NAS679A3	• NUT	1		
- 58	MS21919DG32	• CLAMP ATTACHING PARTS	1		
- 59	AN3-3A	• BOLT -----X-----	1		
- 60	64E34064-1	• DUCT ASSY, CABIN COOLING WELDED	1		
- 61	AN735D32	• CLAMP	1		

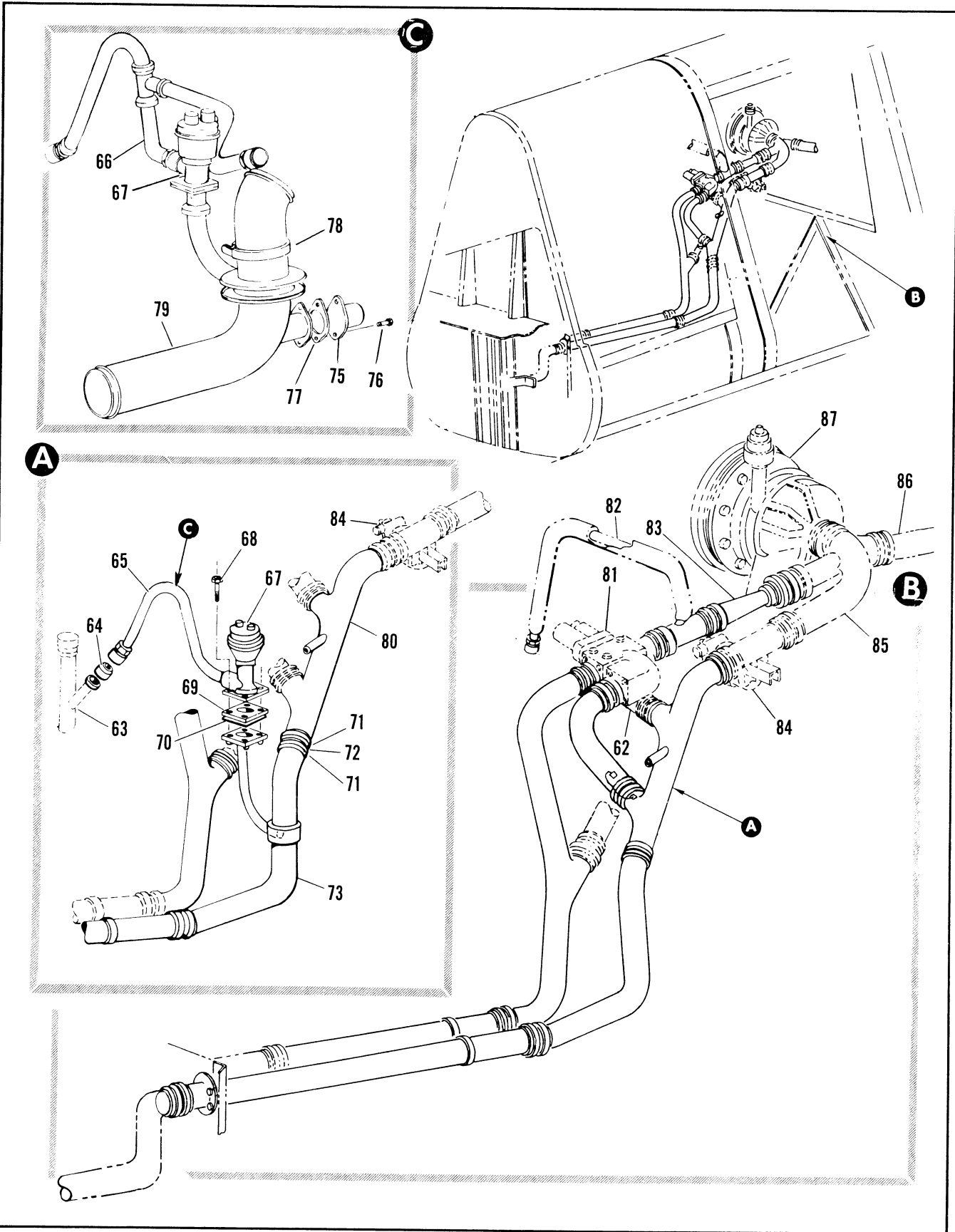


Figure 2.13-9. Forward Radar Compartment and Cockpit Cooling Duct Installation (Sheet 4 of 4)



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION 1 2 3 4 5 6	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-9- 62		• DUCT INSTL, EMERGENCY ELECTRONIC RAM AIR SEE FIG. 2.13-1	RF		
- 63		• DUCT INSTL, COCKPIT HOT AIR BYPASS SEE FIG. 2.13-24	RF		
- 64	2894	• RING, RUTE 97-60502-006	1	241	
- 65	8-23801-1	• DUCT ASSY, ELECTRONIC HOT AIR BYPASS WELDED	1	241	
- 66	63E35696-1	• DUCT ASSY, ELECTRONIC HOT AIR BYPASS WELDED	1		
- 67	106780-1	• VALVE ASSY, MOISTURE SEPARATOR INLET HOT AIR BYPASS (39193) SPEC 8-09588-1 ATTACHING PARTS	1	241	
- 68	NAS1003-6	• BOLT -----X-----	4	241	
- 69	8-23879-7	• GASKET	1	241	
- 70	8-23879-7	• GASKET	1		
- 71	AN737TW107	• CLAMP	2	241	
- 72	AD297-3	• COUPLING, <92799> SPEC 8-00297-3	1	241	
- 73	8-23514-801	• DUCT ASSY, ELECTRONIC COOLING WELDED REPLACES NOT INTCHG WITH 8-23514-5	1	241	
- 74	8-23514-801	• DUCT ASSY, ELECTRONIC COOLING WELDED REPLACES NOT INTCHG WITH 8-23514-5	1	241	
- 75	107890-6	• THERMOSTAT ASSY, MOISTURE SEPARATOR INLET HOT AIR BYPASS (39193) ATTACHING PARTS	1		
- 76	NAS1103-5	• BOLT -----X-----	2		
- 77	8-23879-9	• GASKET, <MADE FROM P/N 60-1-16X36X33>	1		
- 78	AN742-48	• CLAMP	1		
- 79	64E34063-1	• ELBOW ASSY, MOSTURE SEPARATOR INLET WELDED	1		
- 80	8-23514-803	• DUCT ASSY, ELECTRONIC COOLING WELDED REPLACES NOT INTCHG WITH 8-23514-5	1	241	
- 81		• VALVE INSTL, COCKPIT DIVERter AND SHUTOFF SEE FIG. 2.13-1	RF		
- 82		• DUCT INSTL, COCKPIT HOT AIR BYPASS STA 267 TO 319 SEE FIG. 2.13-22	RF		
- 83	106472	• CONTROL, DUCT FLOW <72210> SPEC 8-02270-1	1	35	
- 84		• VALVE INSTL, ELECTRONIC COMPARTMENT COOLING SEE FIG. 2.13-1	RF		
- 85		• DUCT ASSY, REFRIGERATION TURBINE OUTLET SEE FIG. 2.13-31 INDEX 8	RF		
- 86		• DUCT INSTL, GROUND COOLING SEE FIG. 2.13-21	RF		
- 87		• TURBINE AND COMPRESSOR ASSY, REFRIGERATION SEE FIG. 2.13-31 INDEX 19	RF		

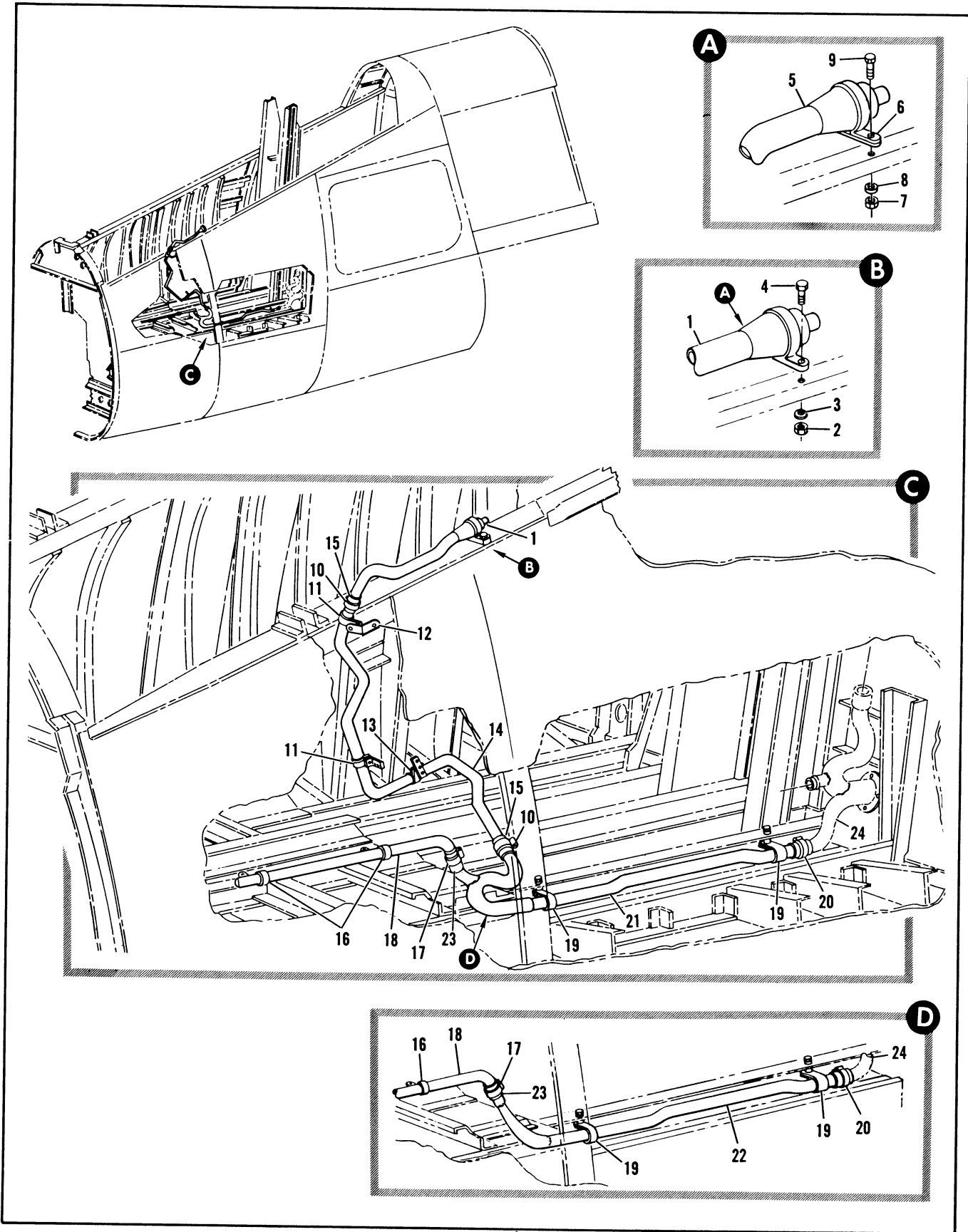


Figure 2.13-10. Cockpit Air-Conditioning Forward LH Duct Installation

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-10	8-23300-803	DUCT INSTALLATION, COCKPIT AIR-CONDITIONING FWD LH FOR NHA SEE FIG. 2-3-4	RF	A	
	8-23300-811	DUCT INSTALLATION, COCKPIT AIR CONDITIONING FWD LH FOR NHA SEE FIG. 2-3-4	RF	B	
- 1	2112-3	• VENTILATOR, PILOT <R1896> SPEC 8-00484-3 REPLACED BY SUITABLE SUB 2112-5 ATTACHING PARTS	1	35	38
- 2	NAS679A3	• NUT	1	35	38
- 3	AN960D10L	• WASHER	1	35	38
- 4	AN3-4A	• BOLT	1	35	38
		-----X----			
- 5	2112-5	• VENTILATOR, PILOT <R1896> SPEC 8-00484-5 REPLACES SUITABLE SUP FOR 2112-3	1	C	
- 6	AN742D21	• CLAMP ATTACHING PARTS	1	C	
- 7	NAS679A3	• NUT	1	C	
- 8	AN960D10L	• WASHER	1	C	
- 9	AN3-4A	• BOLT	1	C	
		-----X----			
- 10	AN737TW30	• CLAMP	2	A	
- 11	AN742D10	• CLAMP ATTACHING PARTS	2	A	
	NAS679A3	• NUT	2	A	
	AN960D10L	• WASHER	3	A	
	AN526-1032R8	• SCREW	1	A	
	AN520C10R8	• SCREW	1	A	
		-----X----			
- 12	AN743-12	• BRACKET ATTACHING PARTS	1	A	
	NAS679A3	• NUT	1	A	
	AN960D10L	• WASHER	1	A	
	AN3-3A	• BOLT	1	A	
		-----X----			
- 13	MS21919D611	• CLAMP ATTACHING PARTS	1	A	
	NAS679A3	• NUT	1	A	
	AN960D10L	• WASHER	2	A	
	AN520C10R8	• SCREW	1	A	
		-----X----			
- 14	8-23398	• TUBE ASSY, COCKPIT AIR VENT	1	A	
- 15	NAS521-5-9	• COUPLING	2	A	
- 16	AN742D12	• CLAMP ATTACHING PARTS	2	35	
	NAS679A3	• NUT	2	35	
	AN960D10L	• WASHER	4	35	
	AN3-5A	• BOLT	2	35	
		-----X----			
- 17	AN737TW34	• CLAMP	1	35	
- 18	8-23385	• PICCOLO ASSY, WELDED	1	35	
- 19	8-23321	• CLAMP ATTACHING PARTS	2	35	
	NAS679A3	• NUT	2	35	
	AN960D10L	• WASHER	4	35	
	NAS430D3-12	• SPACER	2	35	
	AN3-6A	• BOLT	2	35	
		-----X----			

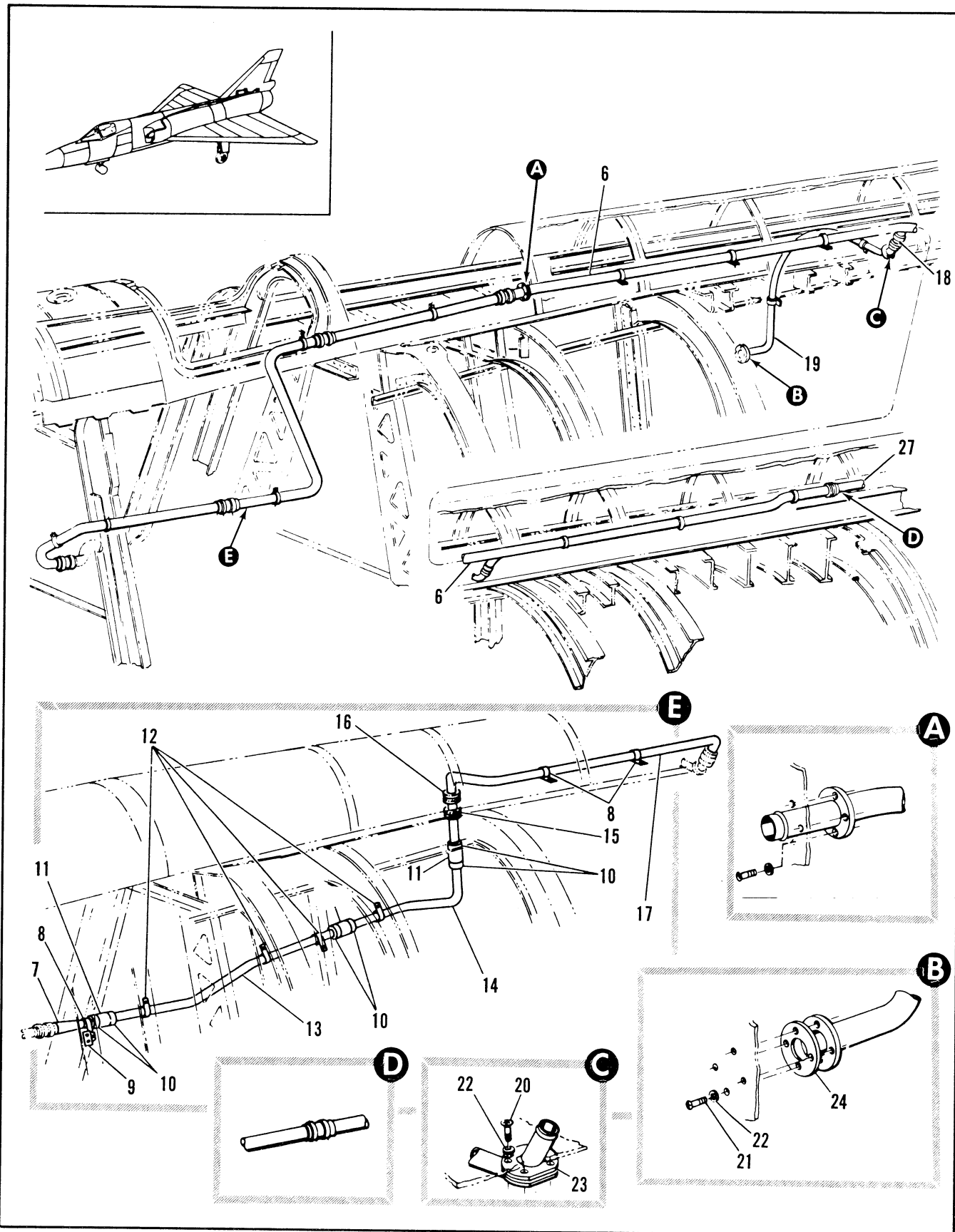


Figure 2.13-11. IFF Cooling Duct Installation Sta 260 to 628 (Sheet 1 of 3)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-11	8-23850-3	DUCT INSTL, IFF COOLING STA 260 TO 628 MODIFIED BY 66J40464 FOR NHA SEE FIG. 2.3-3			
	8-23850-5	DUCT INSTL, IFF COOLING STA 260 TO 628 MODIFIED BY 66J40464 FOR NHA SEE FIG. 2.3-3			
	8-23450-401	DUCT INSTL, IFF COOLING STA 260 TO 482 MODIFIED BY 66J40464 FOR NHA SEE FIG. 2.3-3			
	8-86309	DUCT INSTL, IFF COOLING STA 482 TO 628 MODIFIED BY 66J40464 FOR NHA SEE FIG. 2.3-3	RF		
- 1		• DUCT INSTL, FWD RADAR COMPARTMENT AND COCKPIT COOLING SEE FIG. 2.13-9	PF		
- 2	AN742D24	• CLAMP	2	35	
		ATTACHING PARTS			
	NAS679A3	• NUT	1	35	
	NAS679A3	• NUT	1	35	89
	AN966PD10L	• WASHER	5	35	
	AN966PD10	• WASHER	2	35	
	AN520-10P10	• SCREW	2	35	
		-----X-----			
- 3	AN737TW58	• CLAMP	4	35	
- 4	NAS520-12-12	• COUPLING	2	35	
- 5	8-23854-1	• DUCT ASSY, WELDED STA 260 TO 297	1	35	
	8-23854-3	• DUCT ASSY, WELDED STA 260 TO 297 ALT INTCHG WITH 8-23854-1	RF	35	
- 6	8-23851-3	• DUCT ASSY, STA 342 TO 482 REPLACES NCT INTCHG WITH 8-23851-1	1	44	
- 7	66C40474-1	• DUCT, TRANSITION	1		
- 8	AN742D12	• CLAMP	3		
		ATTACHING PARTS			
	MS35207-262	• SCREW	1		
	AN966D10L	• WASHER	1		
		-----X-----			
- 9	66C40475-1	• BRACKET	1		
		ATTACHING PARTS			
	MS21442L3	• NUT	2		
	AN966D10L	• WASHER	2		
	MS35207-262	• SCREW	2		
		-----X-----			
- 10	AN737TW30	• CLAMP	6		
- 11	NAS520-6-12	• COUPLING	4		
- 12	AN742D12	• CLAMP	4		
		ATTACHING PARTS			
	MS21442L3	• NUT	1		
	AN966D10L	• WASHER	1		
	MS35207-262	• SCREW	1		
		-----X-----			
- 13	66A40476-1	• TUBE	1		
- 14	66A40477-1	• TUBE	1		
- 15	MS35489-28	• GROMMET	1		
- 16	MS35489-78	• GROMMET	1		
- 17	67A36628-1	• TUBE	1		

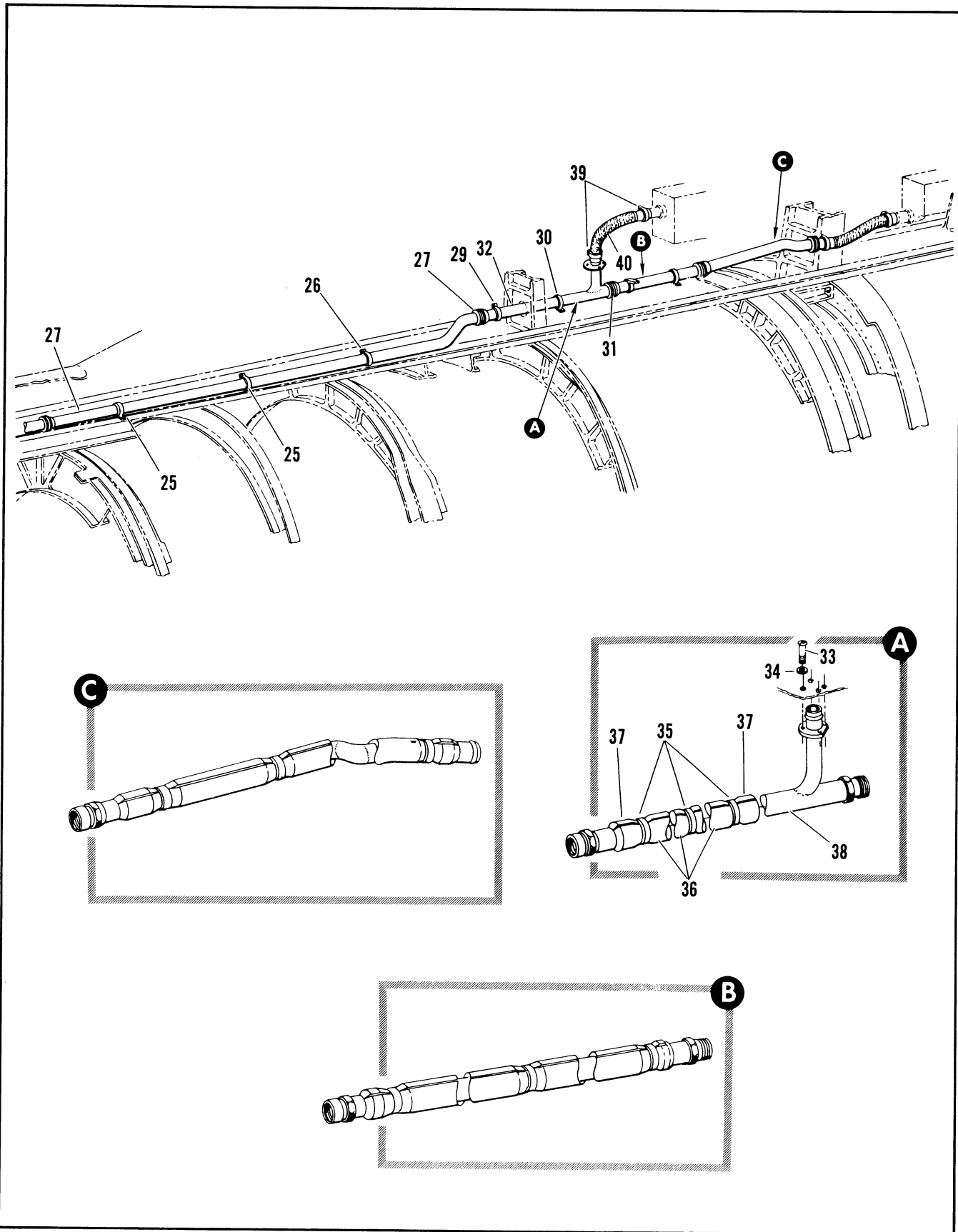


Figure 2.13-11. IFF Cooling Duct Installation Sta 260 to 628 (Sheet 2 of 3)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-11- 18	NAS520-6-12	• COUPLING	1	35	
- 19	64J34050	• DUCT ASSY, WELDED ATTACHING PARTS	1		
- 20	AN520-10R7	• SCREW	4	35	
- 21	AN520-10R6	• SCREW	4	35	
- 22	AN960PD10L	• WASHER	4	35	
		-----X-----			
- 23	8-23857-1	• GASKET	1	35	
- 24	8-23856	• GASKET	1	35	
- 25	AN742D26	• CLAMP	2	35	
		ATTACHING PARTS			
	AN520-10R7	• SCREW	2	35	
	AN960PD10L	• WASHER	2	35	
	NAS679A3	• NUT	2	278	
		-----X-----			
- 26	AN742D22	• CLAMP	1	35	
		ATTACHING PARTS			
	AN520-10R7	• SCREW	1	35	
	AN960PD10L	• WASHER	1	35	
	NAS679A3	• NUT	1	278	
		-----X-----			
- 27	NAS592-16	• RING	1	35	
- 28	R-23526-3	• DUCT ASSY, STA 482 TO 553 REPLACED BY NGT INTCHG WITH 8-23526-5	1	35	43
	8-23526-5	• DUCT ASSY, STA 482 TO 550 REPLACES NGT INTCHG WITH R-23526-3	1	44	
- 29	AN742D16	• CLAMP	1	35	
		ATTACHING PARTS			
	AN520-10R7	• SCREW	1	35	
	AN960PD10L	• WASHER	1	35	
	NAS679A3	• NUT	1	278	
		-----X-----			
- 30	AN742D22	• CLAMP	1	35	
		ATTACHING PARTS			
	AN520-10R7	• SCREW	1	35	
	AN960PD10L	• WASHER	1	35	
		-----X-----			
- 31	NAS592-16	• RING	1	35	
- 32	8-23534-1	• TUBE ASSY, STA 550 TO 577	1	35	
	8-23841-11	• TUBE ASSY, STA 553 TO 577 ALT INTCHG WITH 8-23534-1 ALTERED FROM 8-23534	RF	35	
	8-23534	• TUBE ASSEMBLY	RF		
		ATTACHING PARTS			
- 33	AN520-10R7	• SCREW	4	35	
- 34	AN960PD10L	• WASHER	4	35	
		-----X-----			
- 35	PC425	• CLAMP, <04911> SPEC R-02434-1	3	35	
- 36	18-22229-1	• INSULATION, <08741> SPEC 8-02451-1	1	35	
- 37	18-22229-2	• INSULATION, <08741> SPEC 8-02451-2	1	35	
- 38	8-23534-27	• TUBE ASSY, WELDED	1	35	
	8-23534-17	• TUBE ASSY, WELDED USE WITH 8-23841-11	RF	35	
- 39	AN737TW30	• CLAMP	2	35	
- 40	3-1644-0-42-6	• HOSE, FLEX <76628> 64-80005-001	1	35	

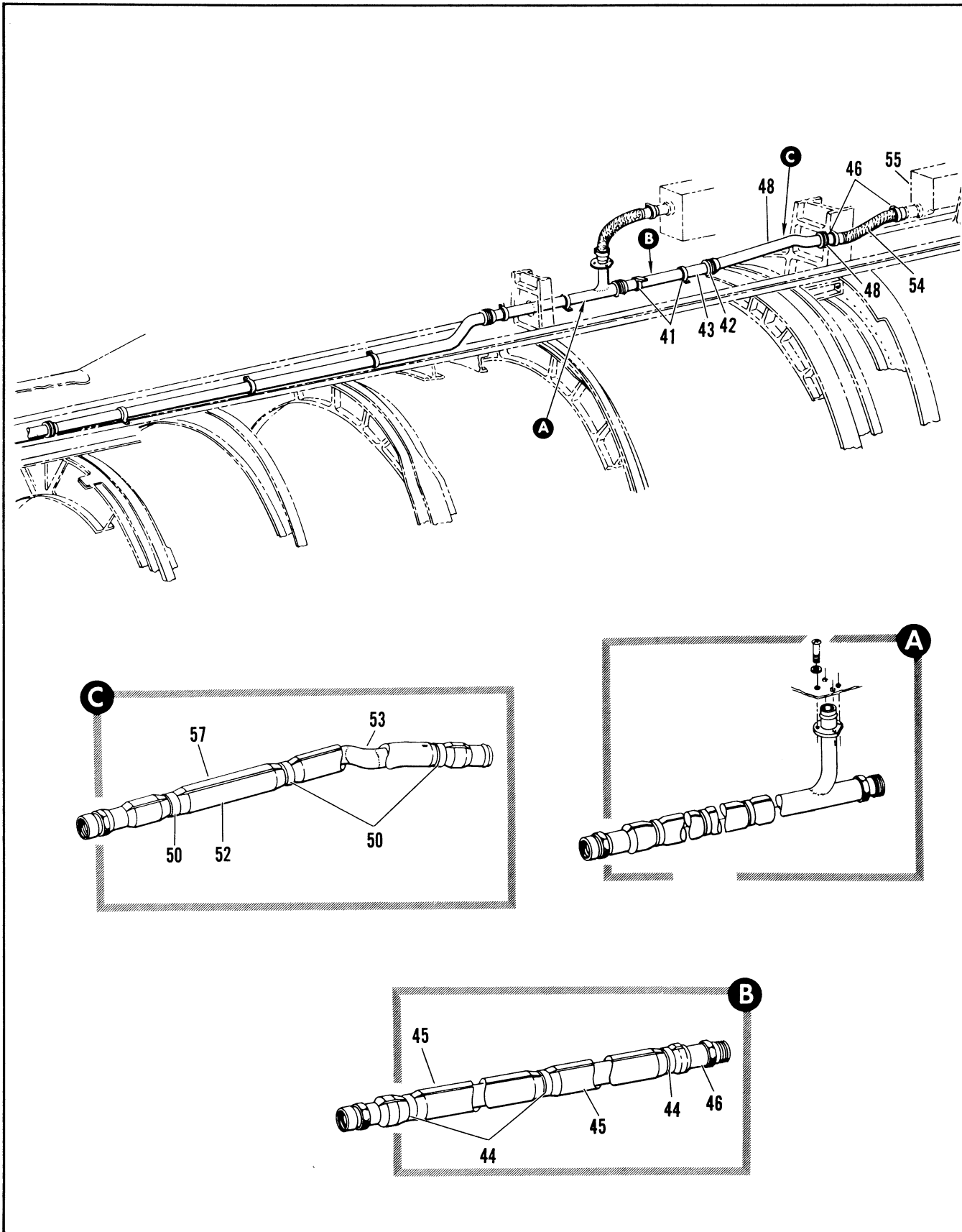


Figure 2.13-11. IFF Cooling Duct Installation Sta 260 to 628 (Sheet 3 of 3)



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-11- 41	AN742D22	• CLAMP ATTACHING PARTS	2	35	
	AN520-10R7	• SCREW	2	35	
	AN960PD10L	• WASHER -----X-----	2	35	
- 42	NASS92-16	• RING	1	35	
- 43	8-23535	• TUBE ASSY, STA 577 TO 598	1	35	
- 44	PC425	• • CLAMP, <04811> SPEC 8-02434-1	3	35	
- 45	18-22230-1	• • BLANKET, INSULATION TMH SPEC 8-02452-1	2	35	
- 46	8-23535-9	• • TUBE ASSY, WELDED	1	35	
- 47	AN737TW30	• CLAMP	2	35	
- 48	AN931C14S20	• GROMMET	1	35	69
	AN931C16S22	• GROMMET	1	70	
- 49	8-23536-1	• TUBE ASSY, STA 598 TO 617	1	35	
- 50	PC425	• • CLAMP, <04811> SPEC 8-02434-1	3	35	
- 51	18-22227-3	• • BLANKET, INSULATION <78741> SPEC 8-02446-3	1	35	
- 52	18-22227-1	• • BLANKET, INSULATION <78741> SPEC 8-02446-1	1	35	
- 53	8-23536-19	• • TUBE ASSY, WELDED	1	35	
- 54	3-1664-8-54-6	• HOSE, FLEX <78628> 94-80005-002	1	35	
- 55		• EQUIPMENT INSTL, IFF AN/APX-27 AFT SEE FIG. 2.18-4	RF		

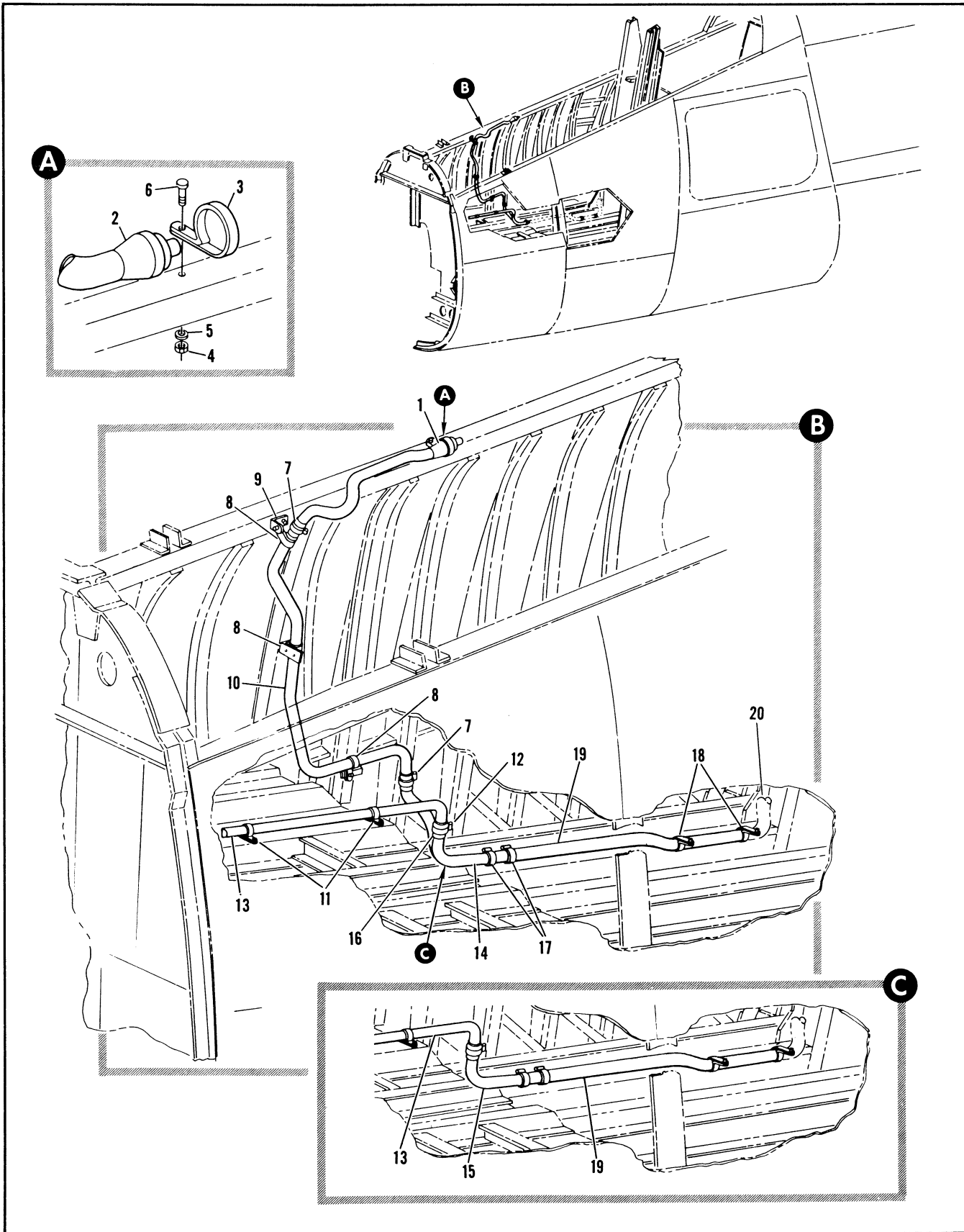


Figure 2.13-12. Cockpit Air-Conditioning Forward RH Duct Installation

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-12	8-23300-805	DUCT INSTALLATION, COCKPIT AIR-CONDITIONING FWD RH FOR NHA SEE FIG. 2.3-4	RF	A	
	8-23300-813	DUCT INSTALLATION, COCKPIT AIR-CONDITIONING FWD RH FOR NHA SEE FIG. 2.3-4	RF	B	
- 1	2111-2	• VENTILATOR, PILOT <R1896> SPEC 8-00368-1 REPLACED BY SUITABLE SUB 2111-3 ATTACHING PARTS	1	35	38
	NAS679A3	• NUT	1	35	38
	AN960D10L	• WASHER	1	35	38
	AN3-4A	• BOLT	1	35	38
		-----X-----			
- 2	2111-3	• VENTILATOR, <R1896> SPEC 8-00368-3 REPLACES SUITABLE SUB FOR 2111-2	1	C	
- 3	AN742D21	• CLAMP ATTACHING PARTS	1	C	
- 4	NAS679A3	• NUT	1	C	
- 5	AN960D10L	• WASHER	1	C	
- 6	AN3-4A	• BOLT	1	C	
		-----X-----			
- 7	AN737TW30	• CLAMP	2	A	
- 8	AN742D10	• CLAMP ATTACHING PARTS	3	A	
	NAS679A3	• NUT	2	A	
	AN960D10L	• WASHER	5	A	
	NAS43DD3-10	• SPACER	1	A	
	AN520C10R10	• SCREW	1	A	
	AN520C10R7	• SCREW	2	A	
		-----X-----			
- 9	8-23300-15	• CLIP ATTACHING PARTS	1	A	
	NAS679A3	• NUT	1	A	
	AN960D10L	• WASHER	2	A	
	AN520C10R8	• SCREW	1	A	
		-----X-----			
- 10	8-23373-1	• TUBE ASSY, CABIN AIR VENT BONDED	1	A	
- 11	AN742D12	• CLAMP ATTACHING PARTS	2	35	
	NAS679A3	• NUT	2	35	
	AN960D10L	• WASHER	4	35	
	AN3-5A	• BOLT	2	35	
		-----X-----			
- 12	AN737TW34	• CLAMP	1	35	
- 13	8-23324	• PICCOLO ASSY, WELDED	1	35	
- 14	8-23366-1	• DUCT ASSY, AIR-CONDITIONING WELDED	1	A	
	8-23323-17	• DUCT ASSY, COCKPIT AIR-CONDITIONING WELDED	1	A	
- 15	8-23452	• COUPLING	1	B	
- 16	NAS521-6-9	• CLAMP	1	35	
- 17	AN737TW56	• CLAMP	2	35	
- 18	AN742D20	• CLAMP ATTACHING PARTS	2	35	
	NAS679A3	• NUT	2	35	
	AN960D10L	• WASHER	4	35	
	AN3-6A	• BOLT	2	35	
		-----X-----			
- 19	8-23309	• DUCT ASSY, COCKPIT AIR RH	1	35	
- 20		• DUCT ASSY, SEE FIG. 2.13-13 INDEX 59	RF		
		A AIRPLANES #35 THRU 47 AND 49 THRU 89 B AIRPLANES #48, 90 AND ON C AIRPLANES #39 THRU 47 AND 49 THRU 89			

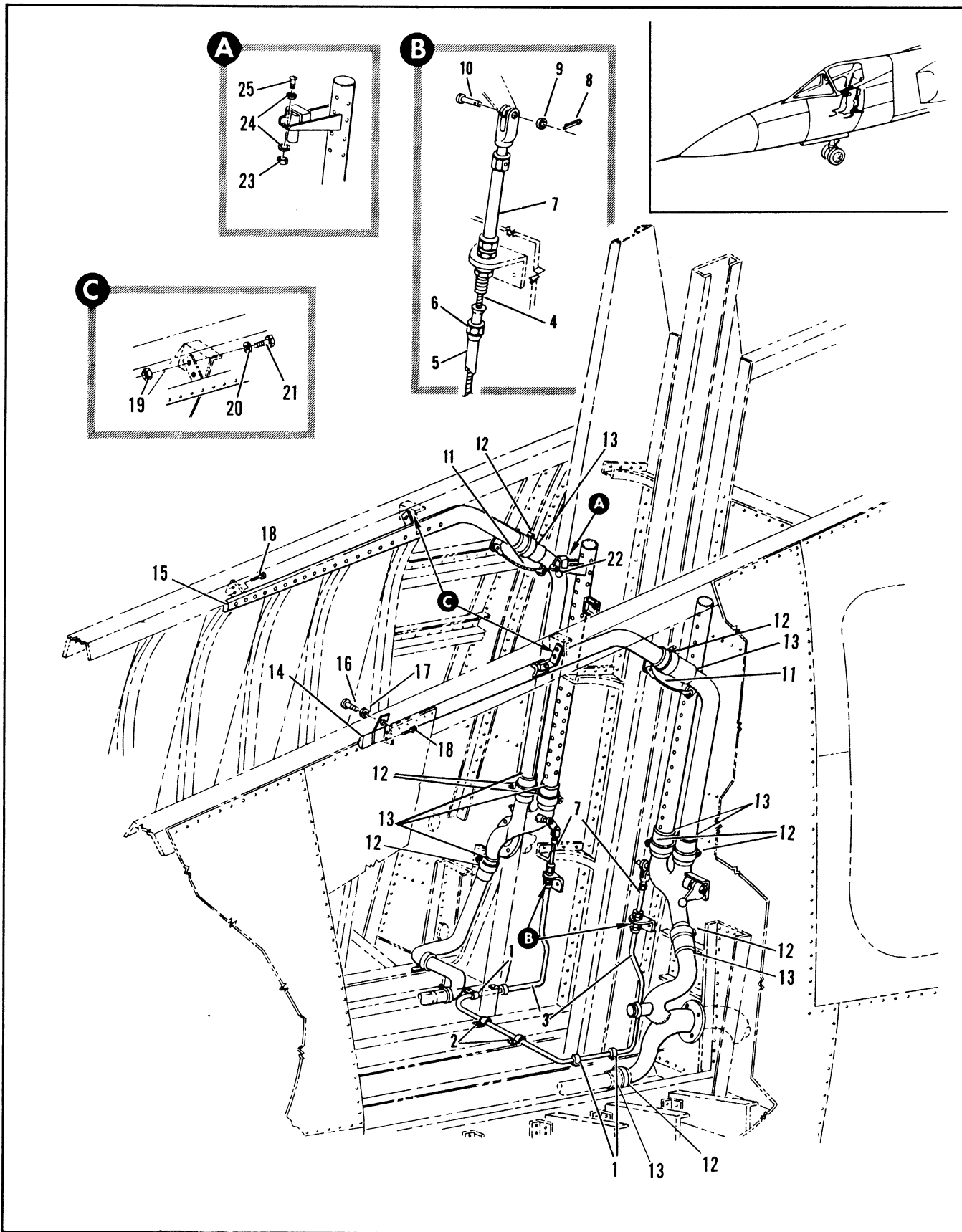


Figure 2.13-13. Cockpit Air-Conditioning Aft Duct Installation (Sheet 1 of 3)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-13	8-23300-807	DUCT INSTALLATION, COCKPIT AIR-CONDITIONING AFT FOR NHA SEE FIG. 2.3-4	RF	A	
	8-23300-809	DUCT INSTALLATION, COCKPIT AIR-CONDITIONING AFT FOR NHA SEE FIG. 2.3-4	RF	B	
- 1	A5506	• SUPPORT, CONDUIT <78710> 98-59800-001 ATTACHING PARTS	4	35	
	NAS679A3	• NUT	4	35	
	AN960D10L	• WASHER	8	35	
	AN520-10R10	• SCREW, LH	2	35	
	AN520-10R12	• SCREW, RH	2	35	
		----X----			
- 2	A5506	• SUPPORT, CONDUIT <78710> 98-59800-001 ATTACHING PARTS	2	61	
	NAS679A3	• NUT	2	61	
	AN960D10L	• WASHER	4	61	
	AN520-10R12	• SCREW	2	61	
		----X----			
- 3	8-23300-29	• TELEFLEX ASSEMBLY	1	35	
- 4	8-23300-23	• CABLE	1	35	
- 5	8-23300-27	• TUBE	1	35	
- 6	A6338	• NUT, <78710> 96-36503-301	2	35	
- 7	C7745-8	• TELESCOPIC UNIT, <78710> 92-65800-012 T.O. 16C1-4-7-3 ATTACHING PARTS	2	35	
- 8	AN381-2-12	• PIN, COTTER	2	35	
- 9	AN960PD10	• WASHER	2	35	
- 10	AN393-17	• PIN	2	35	
		----X----			
- 11	MS25083-2685	• JUMPER ATTACHING PARTS	2	35	
	AN345C10	• NUT	8	35	
	AN960C10L	• WASHER	8	35	
	AN935-10L	• WASHER	8	35	
	AN960D10L	• WASHER	8	35	
	AN526C1032-12	• SCREW	4	35	
		----X----			
- 12	AN737TW66	• CLAMP	7	35	
- 13	NAS521-12-9	• COUPLING	9	35	
- 14	8-23315-805	• PICCOLO ASSY, COCKPIT AIR LH WELDED	1	35	
- 15	8-23315-807	• PICCOLO ASSY, COCKPIT AIR RH WELDED REPLACED BY NOT INTCHG WITH 8-23315-806	1	35	60
	8-23315-806	• PICCOLO ASSY, COCKPIT AIR RH WELDED REPLACES NOT INTCHG WITH 8-23315-807 ATTACHING PARTS	1	61	
- 16	AN520-10R8	• SCREW, LH	1	35	
	AN520-10R8	• SCREW, RH	1	61	
- 17	AN960D10L	• WASHER, LH	1	35	
	AN960D10L	• WASHER, RH	1	61	
- 18	NAS464P4A6	• BOLT	4	35	
- 19	NAS679A3	• NUT	4	35	
- 20	AN960D10L	• WASHER	4	35	
- 21	AN3-4A	• BOLT	4	35	
		----X----			
- 22	AYLF5725	• SENSOR, <65149> SPEC 8-08495-2	1	35	240
- 23	NAS679A58	• NUT	4	35	240
- 24	AN960PD8L	• WASHER	8	35	240
- 25	AN515-8R7	• SCREW	4	35	240
		A AIRPLANES #35 THRU 47 AND 49 THRU 89 B AIRPLANES #48, 90 AND ON			

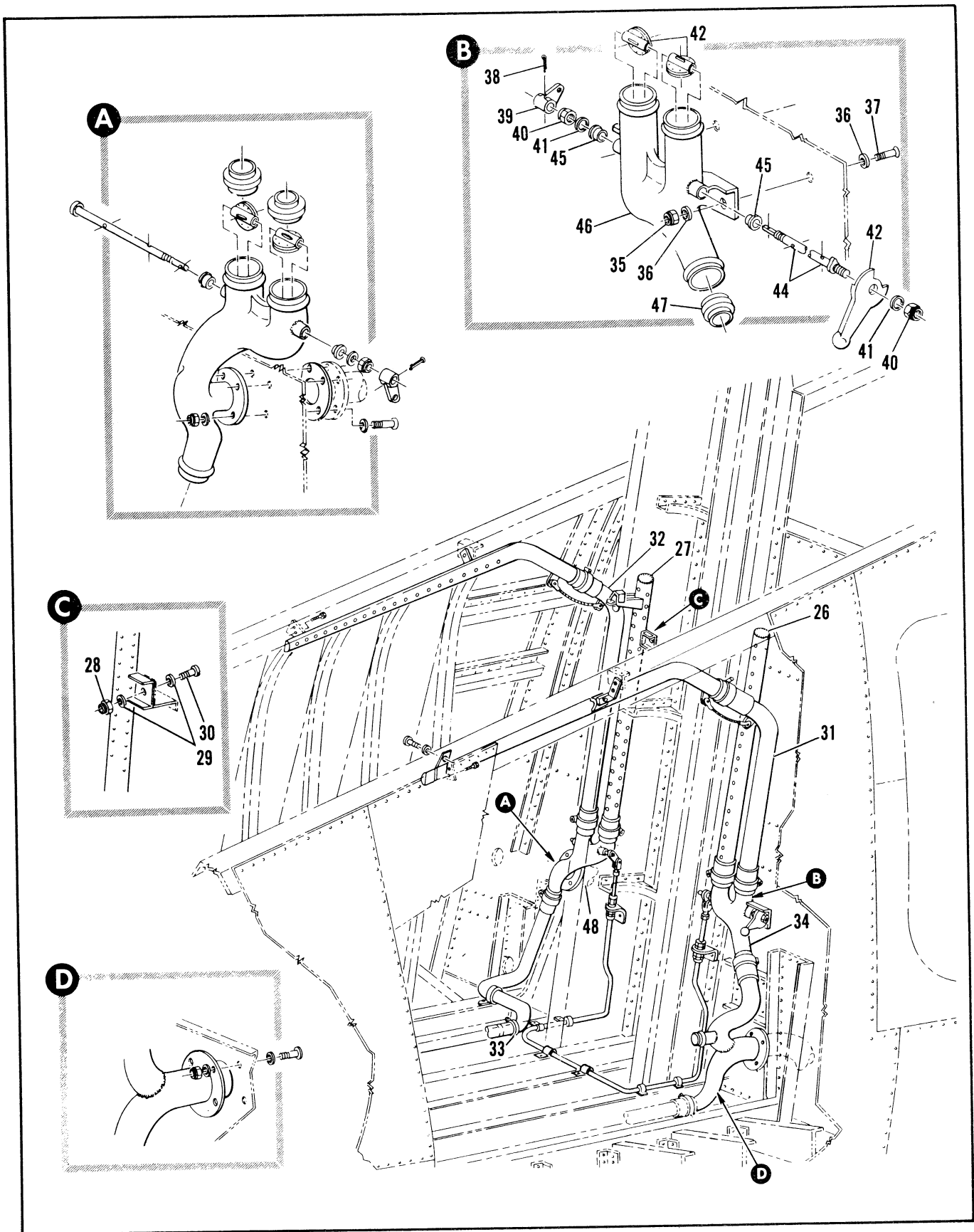


Figure 2.13-13. Cockpit Air-Conditioning Aft Duct Installation (Sheet 2 of 3)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-13- 26	8-23384-2	• PICCOLO ASSY, COCKPIT AIR BYPASS LH WELDED	1	A	
	8-23384-4	• PICCOLO ASSY, COCKPIT AIR BYPASS LH WELDED	1	B	
- 27	8-23384-3	• PICCOLO ASSY, COCKPIT AIR BYPASS RH WELDED	1	A	
	8-23384-5	• PICCOLO ASSY, COCKPIT AIR BYPASS RH WELDED	1	C	
	8-23384-801	• PICCOLO ASSY, COCKPIT AIR BYPASS RH WELDED ATTACHING PARTS	1	241	
- 28	NAS679A3	• NUT	4	35	
- 29	AN960D10L	• WASHER	8	35	
- 30	AN520-10R8	• SCREW	4	35	
		-----X-----			
- 31	8-23382	• ELBOW ASSY, LH WELDED	1	A	
	8-23382-1	• ELBOW ASSY, LH WELDED	1	B	
- 32	8-23382-2	• ELBOW ASSY, RH WELDED	1	35	
- 33	AN737TW56	• CLAMP	1	35	
- 34	8-23388-1	• VALVE ASSY, COCKPIT AIR DIVERter LH REPLACED BY SUITABLE SUB 8-23388-5	1	35	47
	8-23388-5	• VALVE ASSY, COCKPIT AIR DIVERter LH REPLACES SUITABLE SUB FOR 8-23388-1 REPLACED BY NOT INTCHG WITH 8-23388-805	1	48	48
	8-23388-801	• VALVE ASSY, COCKPIT AIR DIVERter LH REPLACED BY NOT INTCHG WITH 8-23388-805	1	49	89
	8-23388-805	• VALVE ASSY, COCKPIT AIR DIVERter LH REPLACES NOT INTCHG WITH 8-23388-5 AND 8-23388-801 REPLACED BY NOT INTCHG WITH 8-23388-803	1	90	129
	8-23388-803	• VALVE ASSY, COCKPIT AIR DIVERter LH REPLACES NOT INTCHG WITH 8-23388-805 ATTACHING PARTS	1	130	
- 35	NAS679A3	• NUT	2	35	
- 36	AN960D10L	• WASHER	4	35	
- 37	AN520-10P10	• SCREW	2	35	
		-----X-----			
- 38	AN385H70-7	• PIN, COTTER	1	35	89
- 39	8-23395-7	• ARM, ACTUATOR REPLACED BY NOT INTCHG WITH 8-23395-9	1	35	89
	8-23395-9	• ARM, ACTUATOR REPLACES NOT INTCHG WITH 8-23395-7	1	90	
- 40	NAS679A4	• NUT	2	35	
- 41	AN960-416L	• WASHER	2	35	
- 42	8-23319-9	• LEVER, REPLACED BY SUITABLE SUB 8-23319-11	1	A	
	8-23319-11	• LEVER, REPLACES SUITABLE SUB FOR 8-23319-9	1	B	
- 43	8-23316	• BUTTERFLY	2	35	
- 44	8-23379	• SHAFT, REPLACED BY SUITABLE SUB 8-23379-7	1	35	129
	8-23379-7	• SHAFT, REPLACES SUITABLE SUB FOR 8-23379	1	130	
- 45	8-23383	• RUSHING	2	35	
- 46	8-23381-7	• VALVE, BODY	1	A	
	8-23381-8	• VALVE, BODY	1	B	
- 47	8-23377-1	• ORIFICE, LH	1	35	
.. 48		• DUCT ASSY, COCKPIT AIR SEE FIG. 2.13-17 INDEX 5	RF		

A AIRPLANES #35 THRU 47 AND 49 THRU 89  
 B AIRPLANES #48, 90 AND ON  
 C AIRPLANES #48 AND 90 THRU 240

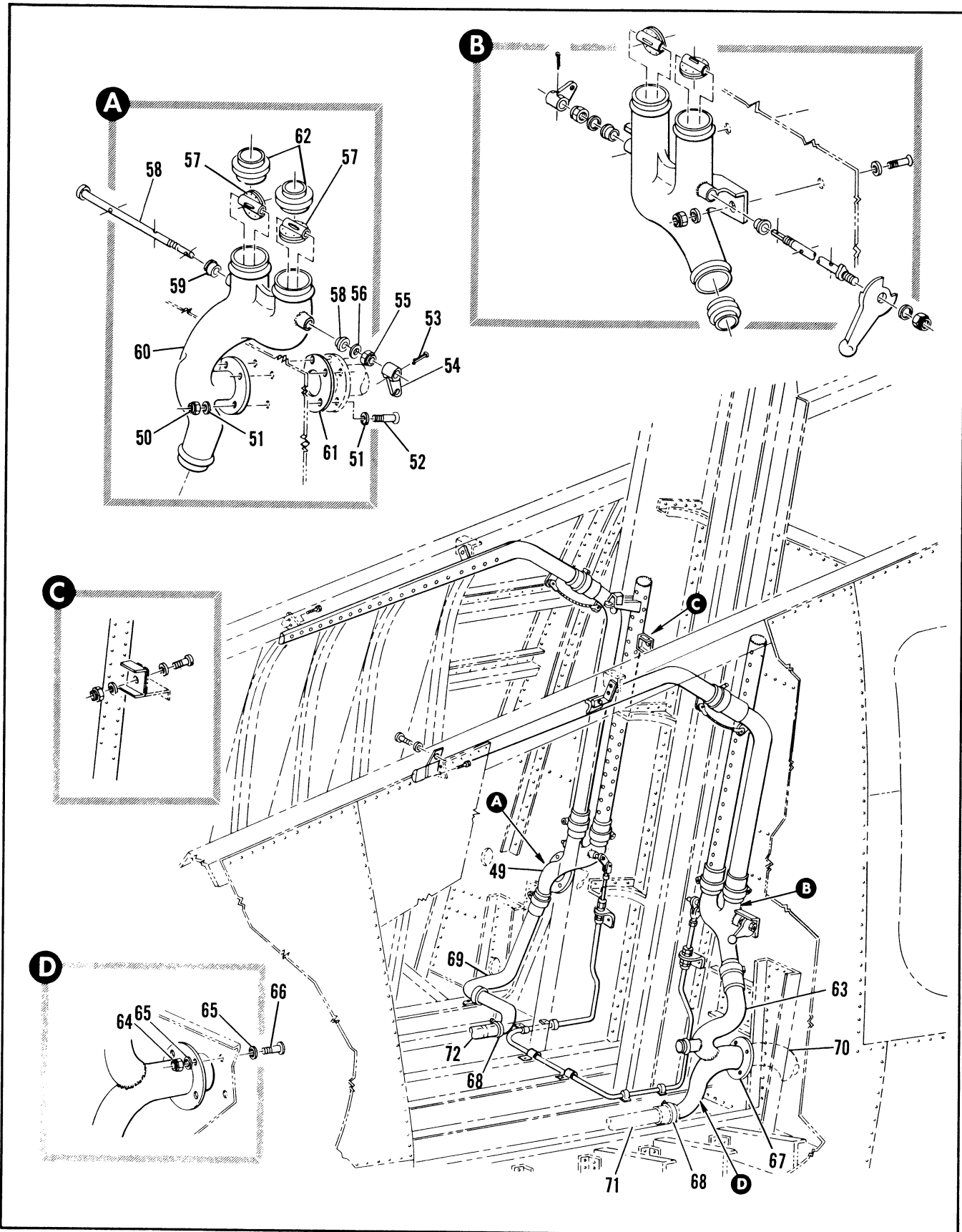


Figure 2.13-13. Cockpit Air-Conditioning Aft Duct Installation (Sheet 3 of 3)



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE		
				FROM	TO	
2.13-13- 49	8-23389-1	• VALVE ASSY, COCKPIT AIR DIVERTER RH REPLACED BY SUITABLE SUB 8-23389-5	1	35	47	
	8-23389-5	• VALVE ASSY, COCKPIT AIR DIVERTER RH REPLACES SUITABLE SUB FOR 8-23389-1	1	48	48	
	8-23389-801	• VALVE ASSY, COCKPIT AIR DIVERTER RH	1	49	89	
	8-23389-803	• VALVE ASSY, COCKPIT AIR DIVERTER RH	1	90	129	
	8-23389-805	• VALVE ASSY, COCKPIT AIR DIVERTER RH ATTACHING PARTS	1	130		
	- 50	NAS679A3	• NUT	4	35	
	- 51	AN960D10L	• WASHER	8	35	
	- 52	AN520-10RR AN3-5A	• SCREW • BOLT	4 4	A B	
	- 53	AN385H70-7	• PIN, COTTER	1	35	89
	- 54	8-23395-7	• ARM, ACTUATOR	1	35	89
		8-23395-9	• ARM, ACTUATOR	1	90	
	- 55	NAS679A4	• NUT	1	35	
	- 56	AN960C416L	• WASHER	1	35	
	- 57	8-23316	• BUTTERFLY	2	35	
	- 58	8-23378	• SHAFT	1	35	
	- 59	8-23383	• PUSHING	2	35	
	- 60	8-23392-9	• VALVE, BODY	1	A	
		8-23392-11	• VALVE, BODY	1	B	
	- 61	8-23385-9	• GASKET	1	35	
	- 62	8-23377-1	• ORIFICE, LH	2	35	
- 63	8-23394-1	• DUCT ASSY, COCKPIT AIR CONDITIONING LH WELDED REPLACED BY SUITABLE SUB 8-23394-3	1	A		
	8-23394-3	• DUCT ASSY, COCKPIT AIR CONDITIONING LH WELDED REPLACES SUITABLE SUB FOR 8-23394-1 ATTACHING PARTS	1	B		
- 64	NAS679A3	• NUT	4	35		
- 65	AN960D10L	• WASHER	8	35		
- 66	AN520-10RR AN3-5A	• SCREW • BOLT	4 4	A B		
- 67	8-23385-7	• GASKET	1	35		
- 68	AN737TW56	• CLAMP	2	35		
- 69	8-23386	• DUCT ASSY, COCKPIT AIR RH BONDED	1	35		
- 70		• DUCT ASSY, COCKPIT AIR WELDED SEE FIG. 2.13-15 INDEX 5	RF			
- 71		• DUCT ASSY, AIR-CONDITIONING SEE FIG. 2.13-11	RF			
- 72		• DUCT ASSY, AIR CONDITIONING SEE FIG. 2.13-12 R AIRPLANES #48, 99 AND ON				

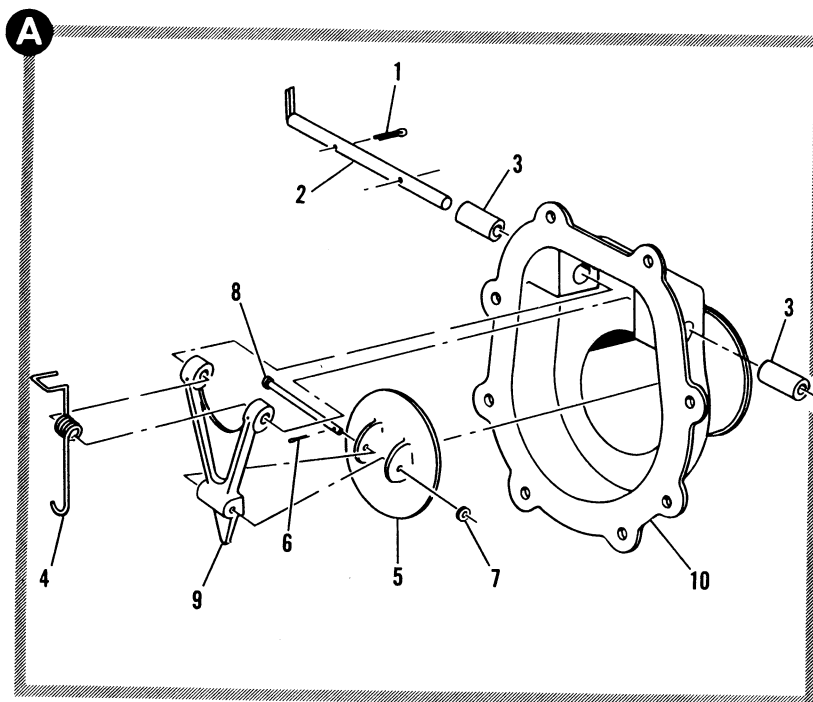
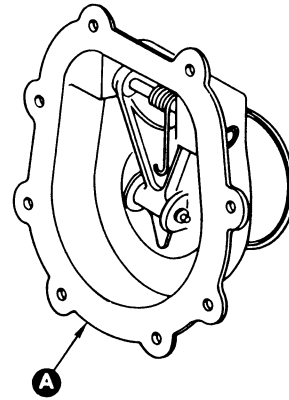
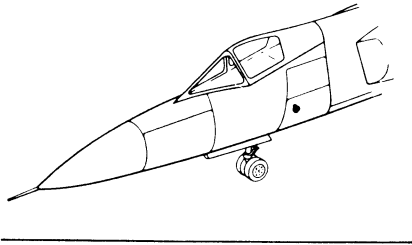


Figure 2.13-14. Cockpit Air Check Valve Assembly

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-14	8-23380	VALVE ASSEMBLY, COCKPIT AIR CHECK FOR NHA SEE FIG. 2.13-15 INDEX 11	RF	35	
- 1	AN380-1-3	• PIN, COTTER	2	35	
- 2	8-23339-1	• SHAFT ASSY, WELDED	1	35	
- 3	8-23338	• RUSHING	2	35	
- 4	8-23337	• SPRING	1	35	
- 5	8-23336	• FLAPPER	1	35	
		ATTACHING PARTS			
- 6	AN380-2-1	• PIN, COTTER	1	35	
- 7	AN960-4L	• WASHER	1	35	
- 8	AN392-25	• PIN	1	35	
		-----X-----			
- 9	8-23335-7	• ARM	1	35	
- 10	8-23334-9	• BODY, VALVE	1	35	

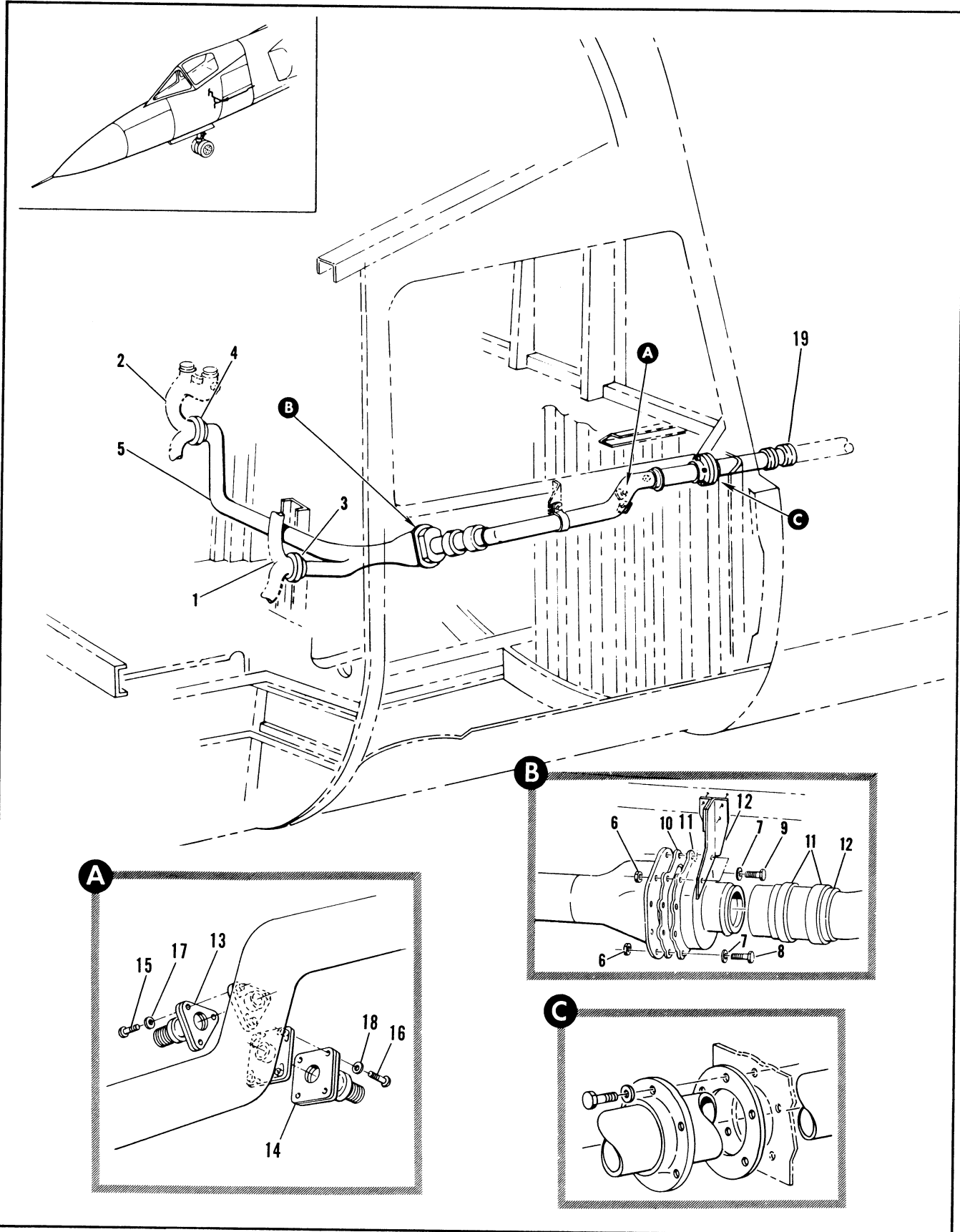


Figure 2.13-15. Cockpit Air Duct Installation Sta 171 to 228 (Sheet 1 of 2)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-15	8-23900-803	DUCT INSTALLATION, COCKPIT AIR STA 171 TO TO 228 FOR NHA SEE FIG. 2.3-3	RF	35	
- 1		• DUCT ASSY, SEE FIG. 2.13-13	RF		
- 2		• VALVE ASSY, COCKPIT AIR DIVERTER RH SEE FIG. 2.13-13	RF		
- 3	8-23385-7	• GASKET	1	35	
- 4	8-23385-9	• GASKET	1	35	
- 5	8-23399	• DUCT ASSY, COCKPIT AIR WELDED ATTACHING PARTS	1	35	
- 6	NAS679A3	• NUT	8	35	
- 7	AN960C10	• WASHER	8	35	
- 8	AN526-1032R9	• SCREW	6	35	
- 9	AN526-1032R12	• SCREW	2	35	
		-----X-----			
- 10	8-23344	• GASKET	1	35	
- 11	8-23380	• VALVE ASSY, COCKPIT AIR CHECK FOR BREAKDOWN SEE FIG. 2.13-14	1	35	
- 12	8-23900-15	• BRACKET ASSY, RIVETED	1	35	
- 13	AYLF5826-1	• ELEMENT, DUCT TEMPERATURE HIGH LIMIT <65149> SPEC 8-08495-7	1	35	
- 14	AYLF5825-1A	• ELEMENT, DUCT TEMPERATURE SENSOR <65149> SPEC 8-08495-5 NO REPLACEMENT ATTACHING PARTS	1	35	240
- 15	AN520C10R8	• SCREW	3	35	
- 16	AN520C10R8	• SCREW	4	35	240
- 17	AN960C10L	• WASHER	3	35	
- 18	AN960C10L	• WASHER	4	35	240
		-----X-----			
- 19		• DUCT, COCKPIT COOLING SEE FIG. 2.13-9 INDEX 15 AND 15.3	RF		

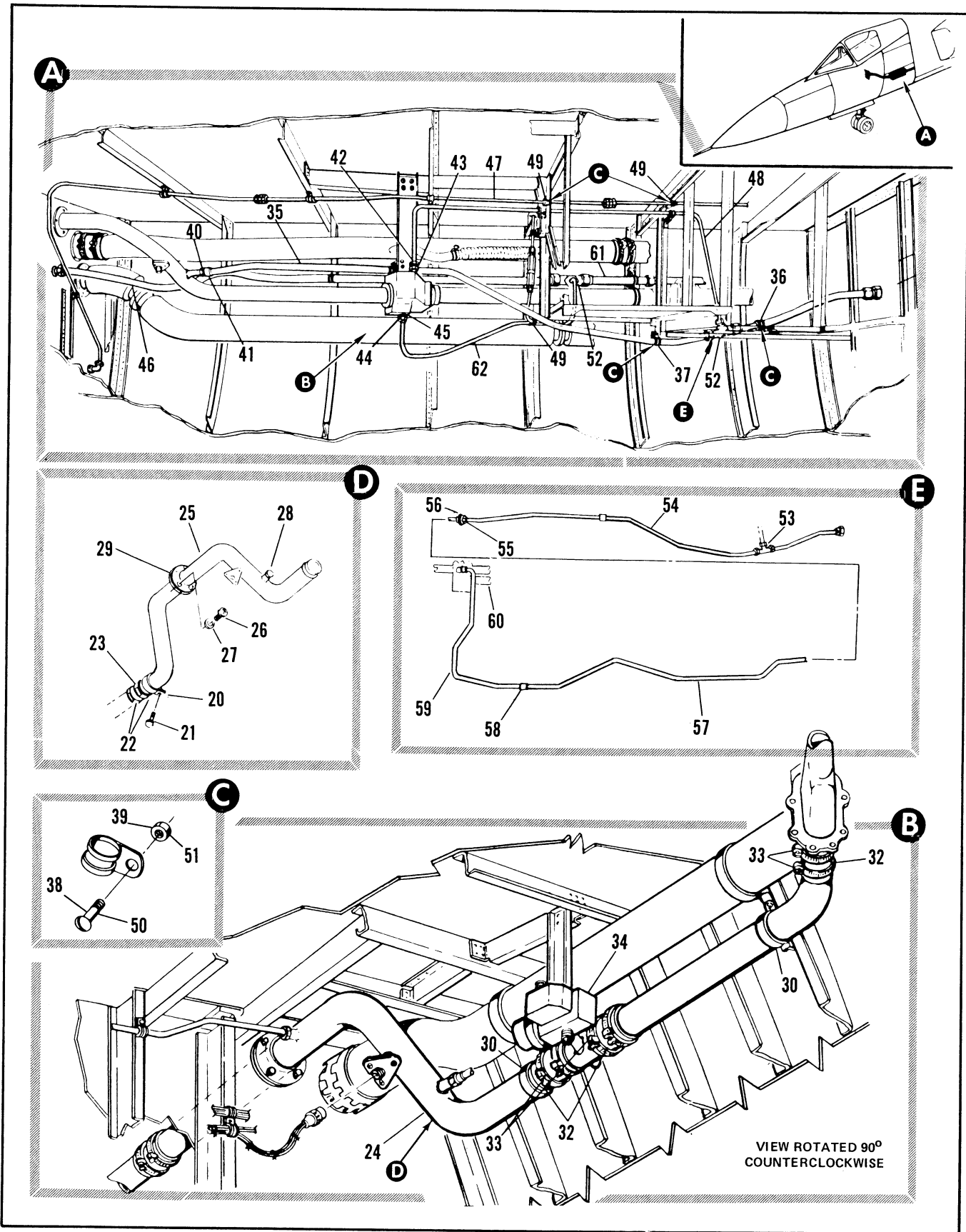


Figure 2.13-15. Cockpit Air Duct Installation Sta 171 to 228 (Sheet 2 of 2)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-15- 20	MS21919D032	• CLAMP ATTACHING PARTS	1		
- 21	AN3-3A	• BOLT -----X----	1		
- 22	AN737TW74	• CLAMP	2		
- 23	AD297-7	• COUPLING	1		
- 24	62J35007-3	• DUCT ASSY	1		
	62J35007-5	• DUCT ASSY	1		
- 25	64J34065-1	• DUCT ASSY, CABIN AIR CONDI- TIONING ATTACHING PARTS	1		
- 26	AN526-1032R8	• SCREW	3		
- 27	AN960C10	• WASHER -----X-----	5		
- 28	64J34065-15	• • CAP	1		
- 29	8-23345	• GASKET	1		
- 30	AN742D32	• CLAMP	2		
- 31	62J35007-1	• DUCT ASSY	1		
- 32	AD297-7	• COUPLING	3		
- 33	AN737TW74	• CLAMP	2		
- 34	26040030	• REGULATOR	1		
- 35	62A35027-1	• TUBE ASSY ATTACHING PARTS	1		
- 36	91-98026-011M	• CLAMP	1		
- 37	91-98026-011M	• CLAMP	1		
- 38	AN520-10R8	• SCREW	4		
- 39	NAS1291-3	• NUT -----X-----	3		
- 40	NAS521-6-9	• COUPLING	1		
- 41	AN737TW30	• CLAMP	2		
- 42	MS21902D4	• UNION	1		
- 43	MS28778-4	• O-RING	1		
- 44	MS2191605-4	• REDUCER	1		
- 45	MS28778-5	• O-RING	1		
- 46	62A35023-1	• TUBE ASSY	1		
- 47	62A35029-1	• TUBE ASSY	1		
- 48	62A35025-1	• TUBE ASSY ATTACHING PARTS	1		
- 49	91-98026-003	• CLAMP	4		
- 50	AN520-10R8	• SCREW	3		
- 51	NAS1291-3	• NUT -----X-----	3		
- 52	ER8240121204	• TEE	1		
- 53	ER8240121204	• TEE	1		
- 54	64A34220-1	• TUBE ASSY, LOW PRESSURE PNEUMATIC	1		
- 55	AN924-120	• NUT	1		
- 56	MS21924012	• UNION	1		
- 57	64A34221-1	• TUBE ASSY, AIR CONDITIONING	1		
- 58	MS21922D12	• UNION	1		
- 59	64A34222-1	• TUBE ASSY, AIR CONDITIONING	1		
- 60	64J34050-5	• VALVE ASSY, CABIN AIR DIVERTER AND SHUTOFF SEE FIG. 2.13-1 INDEX 108	RF		
- 61	62A35024-14	• TUBE ASSY	1		
- 62	62A35026-1	• TUBE ASSY	1		

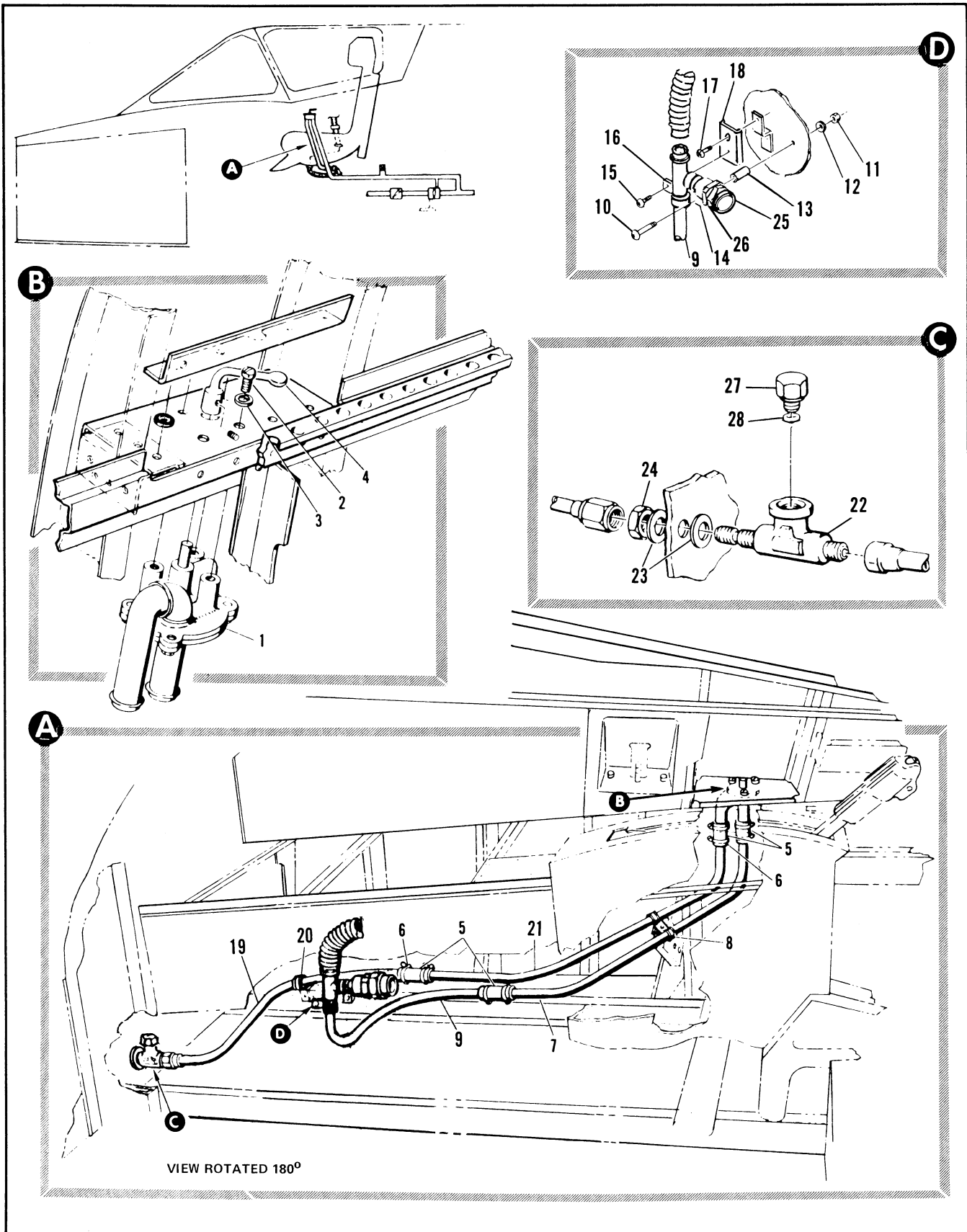


Figure 2.13-16. Cockpit Installation Pressure Suit Ventilation



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-16		CGCKPIT INSTALLATION PRESSURE SUIT VENTILATION			
-	61J34801	• VALVE INST, PRESSURE SUIT MANUAL CONTROL <979907> 62D35003-1	1		
- 1	41C435	• VALVE, PRESSURE SUIT MANUAL CONTROL <979900> 62D35003-1 ATTACHING PARTS	1		
- 2	AN502-10-8	• SCREW	3		
- 3	AN960PD1C	• WASHER -----X-----	3		
- 4	61D34805-1	• HANDLE	1		
- 5	NAS521-6-9	• COUPLING	4		
- 6	AN737TW30	• CLAMP	8		
- 7	62A35032-1	• TUBE ASSEMBLY ATTACHING PARTS	1		
- 8	91-98026-011	• CLAMP -----X-----	1		
- 9	65D35937-1	• TUBE ASSEMBLY, WELDED ATTACHING PARTS	1		
- 10	MS35207-268	• SCREW	1		
- 11	MS21042L3	• NUT	1		
- 12	AN960PD10L	• WASHER	1		
- 13	NAS43DD3-4R	• SPACER	1		
- 14	MS21919D014	• CLAMP (REPLACES 91-98026-013)	1		
- 15	MS35207-263	• SCREW	1		
- 16	91-98026-011	• CLAMP	1		
- 17	AN520-10R7	• SCREW	1		
- 18	65C35947-1	• BRACKET -----X-----	1		
- 19	62A350-1	• TUBE ASSEMBLY ATTACHING PARTS	1		
- 20	91-98026-011	• CLAMP -----X-----	2		
- 21	62A35031-1	• TUBE ASSEMBLY	1		
- 22	MS21910D12	• TEE ATTACHING PARTS	1		
- 23	AN960D1716	• WASHER	2		
- 24	AN924D12	• NUT -----X-----	1		
- 25	62E5006-1	• VALVE	1		
- 26	MS28778-16	• O-RING	1		
- 27	MS21913D12	• PLUG	1		
- 28	MS28778-12	• O-RING	1		

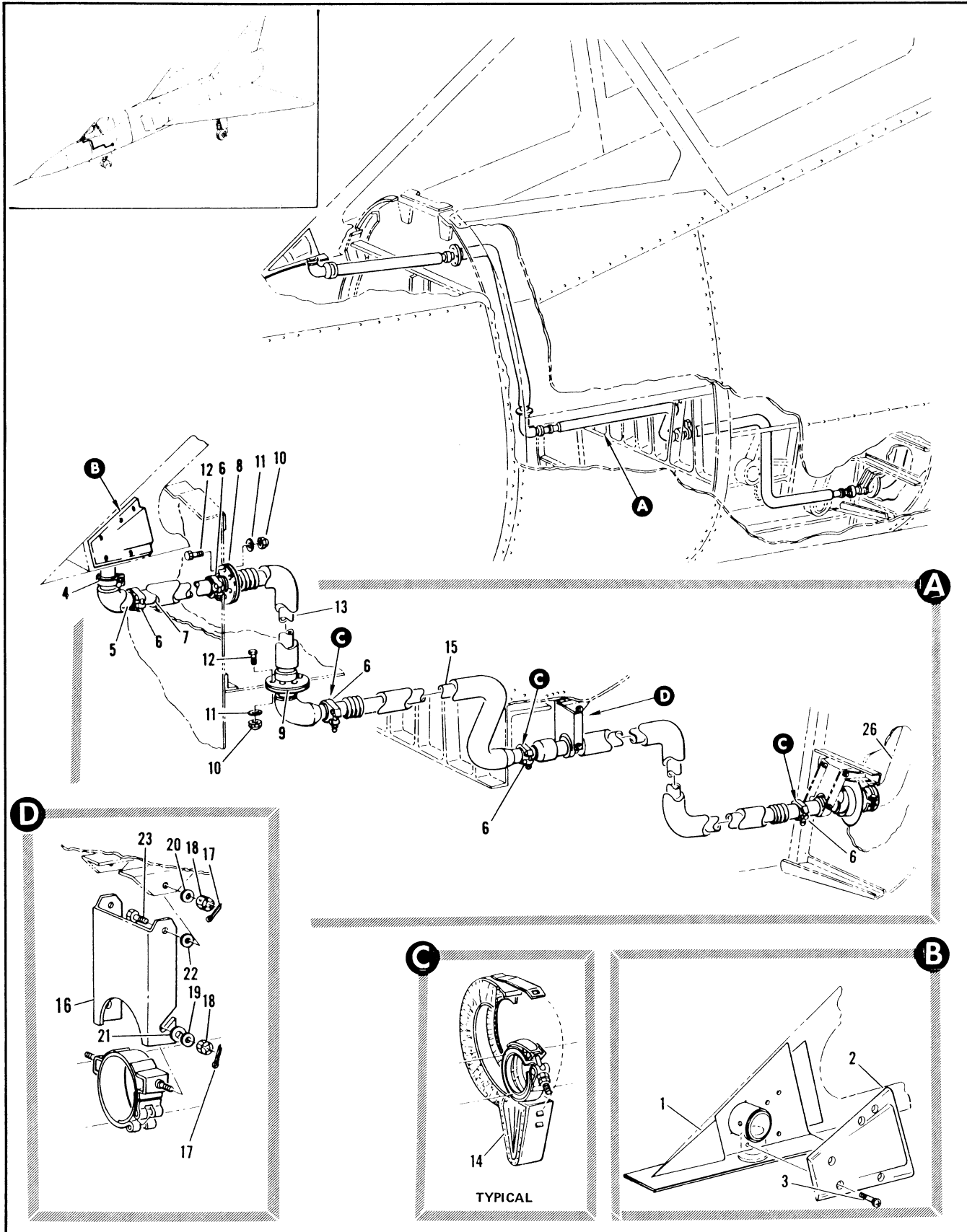


Figure 2.13-17. Rain Removal Duct Installation Sta 84 to 160 (Sheet 1 of 2)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION 1 2 3 4 5 6	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-17	8-23400-5	DUCT INSTL, RAIN REMOVAL STA #4 TO 160 MODIFIED BY 66J38401 FOR NHA SEE FIG. 2.3-4	RF		
	8-23400-803	DUCT INSTL, RAIN REMOVAL STA #4 TO 160 MODIFIED BY 66J38401 FOR NHA SEE FIG. 2.3-4	RF		
- 1		• FAIRING ASSY, WINDSHIELD FWD SEE FIG. 2.4-2	RF		
- 2	8-23401-9	• NOZZLE, RAIN REMOVAL ATTACHING PARTS	1	35	
- 3	MS24694096	• SCREW	5	35	
- 4	4369-231M	• COUPLING, <98625> 92-73005-013 REPLACED BY SUITABLE SUB 24502-150	1	35	129
	24502-150	• COUPLING, <98625> 92-73012-008 REPLACES SUITABLE SUB FOR 4369-231M	1	130	
	7-2053-4	• GASKET, <00307> 94-16002-010	1	35	
	21200-048	• NUT	1		
- 5	8-23402	• DUCT ASSY, RAIN REMOVAL WELDED REPLACED BY SUITABLE SUB 8-23402-1	1	35	159
	8-23402-1	• DUCT ASSY, RAIN REMOVAL WELDED REPLACES SUITABLE SUB FOR 8-23402	1	160	
- 6	24502-175	• COUPLING, <98625> 92-73002-006	5	35	
	17189-175C	• GASKET, <98625> 94-16009-002	5	35	
- 7	8-23403-1	• DUCT ASSY, RAIN REMOVAL WELDED REPLACED BY SUITABLE SUB 8-23403-3	1	35	159
	8-23403-3	• DUCT ASSY, RAIN REMOVAL WELDED REPLACES SUITABLE SUB FOR 8-23403-1	1	160	
- 8	8-23409	• INSULATOR	1	35	
- 9	8-23411	• INSULATOR ATTACHING PARTS	1	35	
- 10	NAS679A3	• NUT	12	35	
- 11	AN960-10	• WASHER	12	35	
- 12	AN3-5A	• BOLT	12	35	
- 13	8-23404-1	• DUCT ASSY, RAIN REMOVAL WELDED REPLACED BY SUITABLE SUB 8-23404-3	1	35	159
	8-23404-3	• DUCT ASSY, RAIN REMOVAL WELDED REPLACES SUITABLE SUB FOR 8-23404-1	1	160	
- 14	634-1	• COVER, <08741> SPEC 8-00452-1	3	35	
- 15	8-23405-1	• DUCT ASSY, RAIN REMOVAL WELDED	1	A	
	8-23405-5	• DUCT ASSY, RAIN REMOVAL WELDED REPLACED BY SUITABLE SUB 8-23405-801	1	C	
	8-23405-801	• DUCT ASSY, RAIN REMOVAL WELDED REPLACES SUITABLE SUB FOR 8-23405-5	1	163	
- 16	8-23413	• SUPPORT ASSY, WELDED ATTACHING PARTS	1	35	
- 17	AN321-2-8	• PIN, COTTER	4	35	
- 18	AN310-3	• NUT	4	35	
- 19	AN960-10L	• WASHER	2	35	
- 20	AN960-10	• WASHER	2	35	
- 21	AN9600416	• WASHER	2	A	
- 22	98-29803-100	• SPACER	2	35	
- 23	AN3-5	• BOLT	2	35	

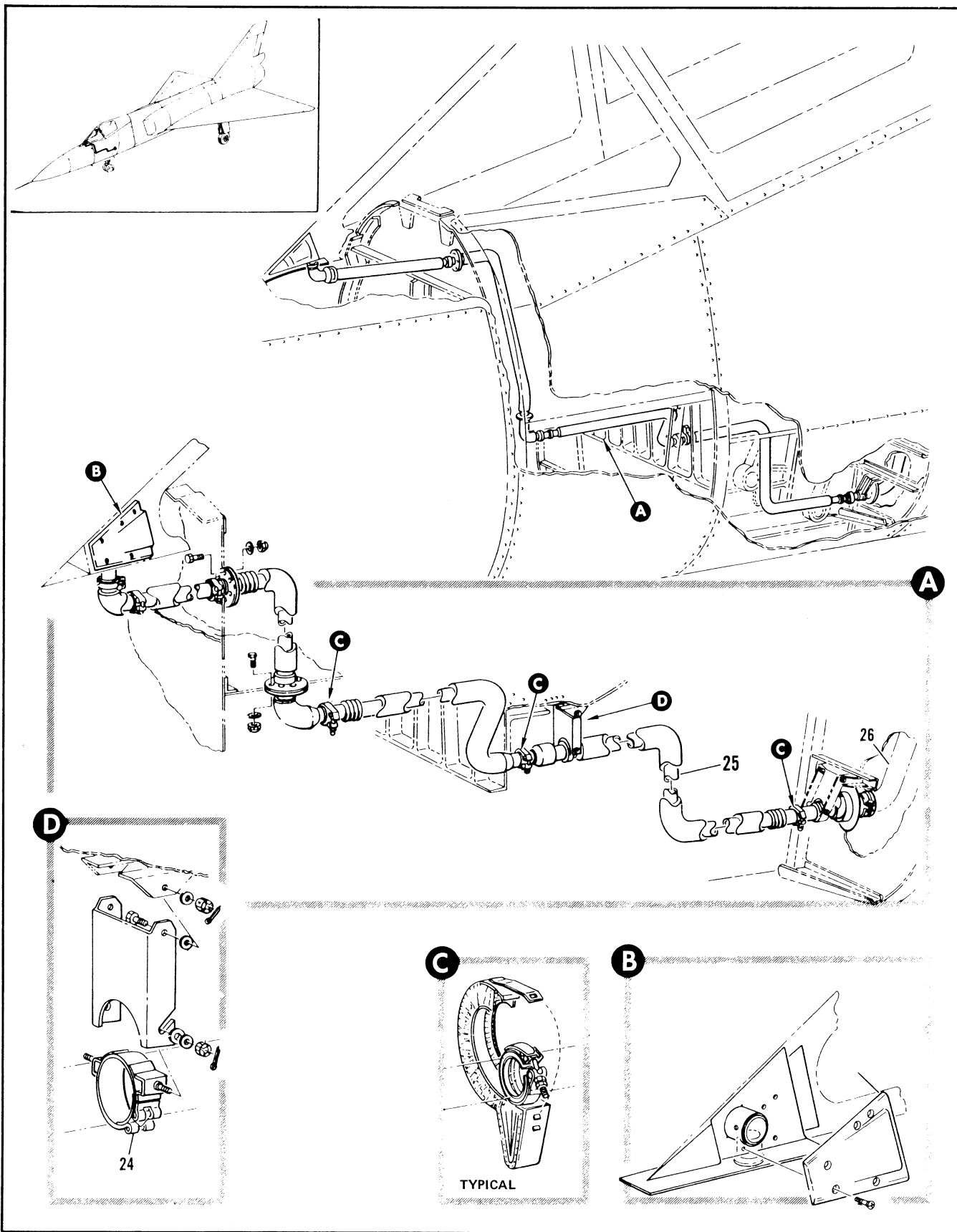


Figure 2.13-17. Rain Removal Duct Installation Sta 84 to 160 (Sheet 2 of 2)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-17- 24 - 25 - 26	50240-200 66J3R400-1	<p>1 2 3 4 5 6</p> <ul style="list-style-type: none"> <li>• SUPPORT, CLAMP &lt;98625&gt; 98-60000-011</li> <li>DUCT ASSY, RAIN RAIN REMOVAL WELDED</li> <li>• DUCT ASSY, RAIN REMOVAL WELDED</li> <li>SEE FIG. 2.13-18 INDEX 14</li> </ul> <p>A AIRPLANES #35 THRU 47 AND 49 THRU 89                      B AIRPLANES #48, 90 AND ON                      C AIRPLANES #48 AND 90 THRU 159</p>	1 1 RF	35	

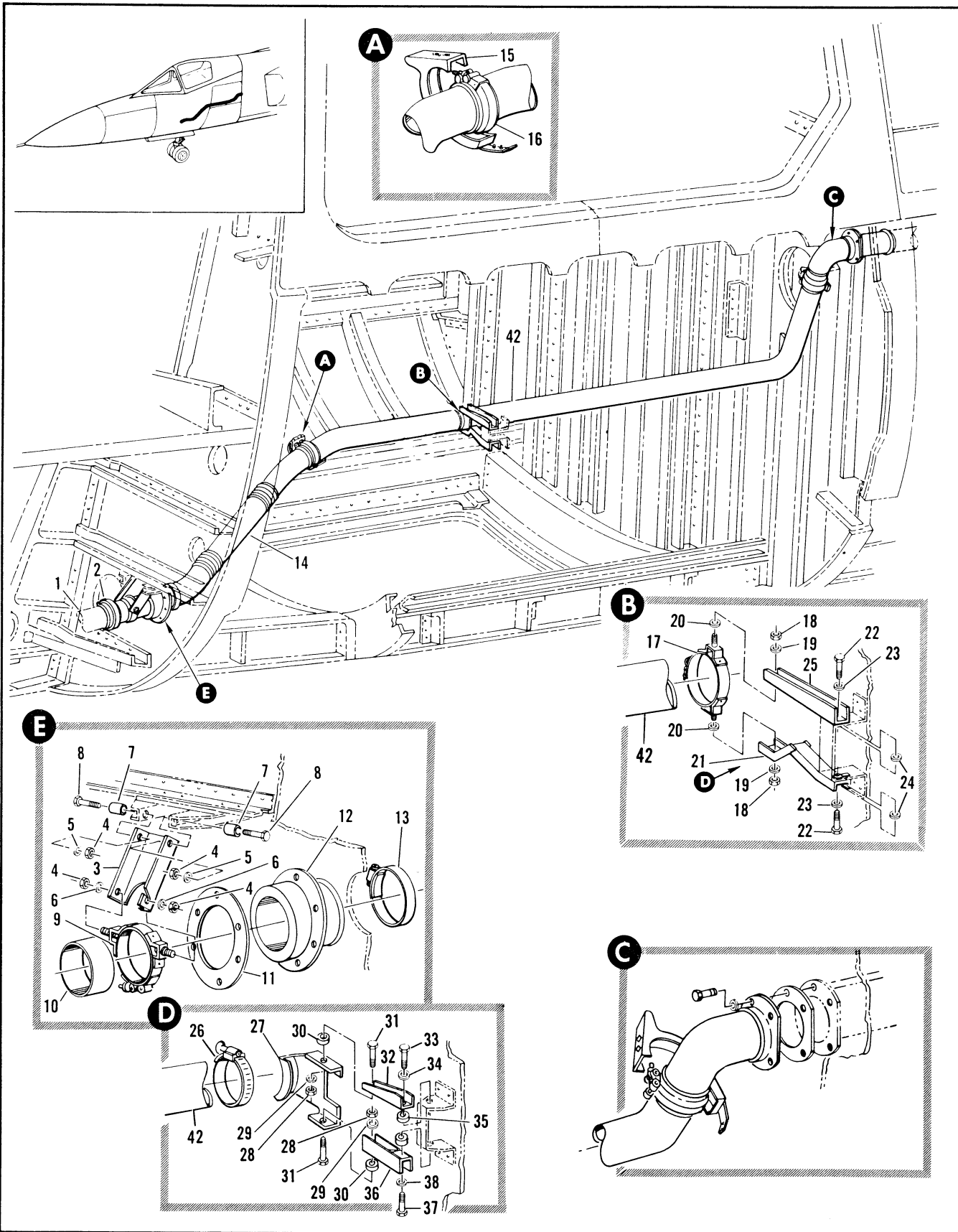


Figure 2.13-18. Rain Removal Duct Installation Sta 160 to 217 (Sheet 1 of 2)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-18	8-23400-801	DUCT INSTALLATION, RAIN REMOVAL STA 160 TO 217 FOR NHA SEE FIG. 2.3-3	RF	35	
- 1		• DUCT ASSY, RAIN REMOVAL SEE FIG. 2.13-17	RF	35	
- 2	24502-175	• COUPLING, <98625> 92-73002-006	1	35	
	17189-175C	• GASKET, <98625> 94-16009-002	1	35	
- 3	8-23414-3	• SUPPORT ASSY, WELDED ATTACHING PARTS	1	35	
- 4	AN310-3	• NUT	4	35	
- 5	AN960-10	• WASHER	2	35	
- 6	AN960-10L	• WASHER	2	35	
	AN9600416	• WASHER	2	35	
- 7	98-29503-012	• SPACER	2	35	
- 8	AN3-5	• BOLT -----X-----	2	35	
- 9	50240-2.000	• SUPPORT, CLAMP <98625> 93-60000-011	1	35	
- 10	8-23400-11	• INSULATOR	1	35	159
- 11	8-23421	• RETAINER	1	35	
- 12	D1805	• SEAL, <75345> SPEC 8-02286-1	1	35	
- 13	AN737TW2	• CLAMP	1	35	159
- 14	8-23407	• DUCT ASSY, RAIN REMOVAL WELDED	1	160	
	8-23407-1	• DUCT ASSY, RAIN REMOVAL WELDED	1	35	
- 15	634-1	• COVER, <08741> SPEC 8-30452-1	1	35	
- 16	24502-175	• COUPLING, <98625> 92-73002-006	1	35	
	17189-175C	• GASKET, <98625> 94-16009-002	1	35	
- 17	50240-2.000	• SUPPORT, <98625> 92-60000-011 ATTACHING PARTS	1	35	102
- 18	AN310-0	• NUT	2	35	102
- 19	AN960C10L	• WASHER	2	35	102
- 20	99-53000-125	• WASHER -----X-----	2	35	102
- 21	P-23442-9	• SUPPORT ASSY, WELDED ATTACHING PARTS	1	35	102
- 22	AN3-4A	• BOLT	2	35	102
- 23	AN960C10L	• WASHER	2	35	102
- 24	99-53000-129	• WASHER -----X-----	2	35	102
- 25	8-23442-7	• SUPPORT	1	35	102
- 26	AN737TW74	• CLAMP	1	103	
- 27	8-23442-15	• SUPPORT ATTACHING PARTS	1	103	
- 28	AN363-428	• NUT	2	103	
- 29	AN960PD416L	• WASHER	2	103	
- 30	99-53000-125	• WASHER	2	103	
- 31	AN4-4A	• BOLT -----X-----	2	103	
- 32	8-23442-17	• CHANNEL ATTACHING PARTS	1	103	
- 33	AN3-4A	• BOLT	1	103	
- 34	AN960C10L	• WASHER	1	103	
- 35	99-53000-129	• WASHER -----X-----	1	103	
- 36	8-23442-23	• SUPPORT ASSY, WELDED ATTACHING PARTS	1	103	
- 37	AN3-4A	• BOLT	1	103	
- 38	AN960C10L	• WASHER			

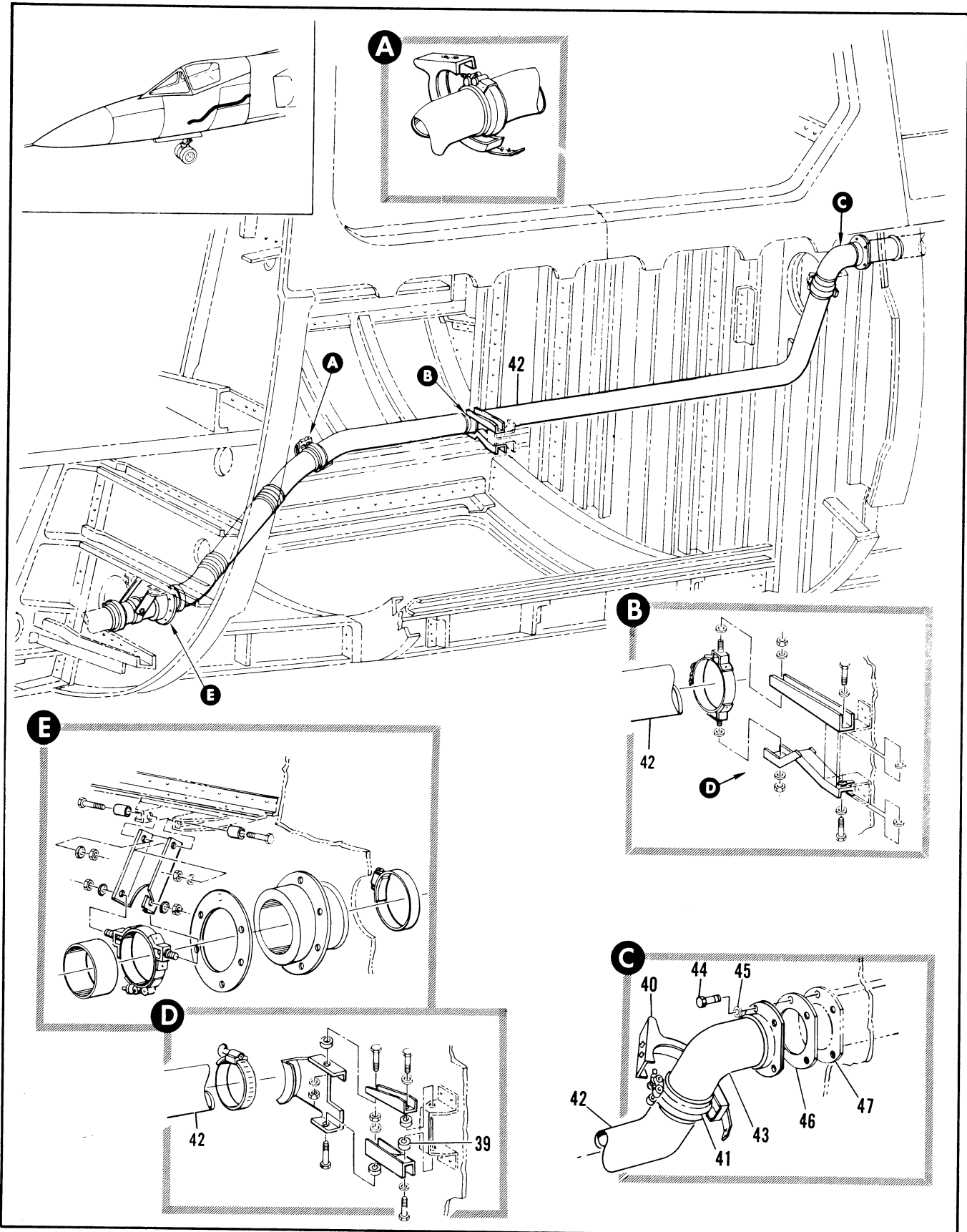


Figure 2.13-18. Rain Removal Duct Installation Sta 160 to 217 (Sheet 2 of 2)



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-18- 39	99-53000-129	1 2 3 4 5 6 • WASHER -----X-----	1	103	
- 40	634-1	• COVER, <98741> SPEC 8-00452-1	1	35	
- 41	24502-175	• COUPLING, <98625> 92-73002-006	1	35	
	17199-175C	• GASKET, <98625> 94-16009-002	1	35	
- 42	8-23441	• DUCT ASSY, RAIN REMOVAL REPLACED BY SUITABLE SUB 8-23441-1	1	35	159
	8-23441-1	• DUCT ASSY, RAIN REMOVAL REPLACES SUITABLE SUB FOR 8-23441	1	160	
- 43	8-23425-1	• DUCT ASSY, RAIN REMOVAL REPLACED BY SUITABLE SUB 8-23425-3	1	35	159
	8-23425-3	• DUCT ASSY, RAIN REMOVAL REPLACES SUITABLE SUB FOR 8-23425-1	1	160	
- 44	AN3-5A	ATTACHING PARTS	4	35	
- 45	AN960-10	• BOLT	4	35	
		• WASHER -----X-----			
- 46	8-23433	• INSULATOR	1	35	
- 47		• DUCT ASSY, SEE FIG. 2.13-23	RF		

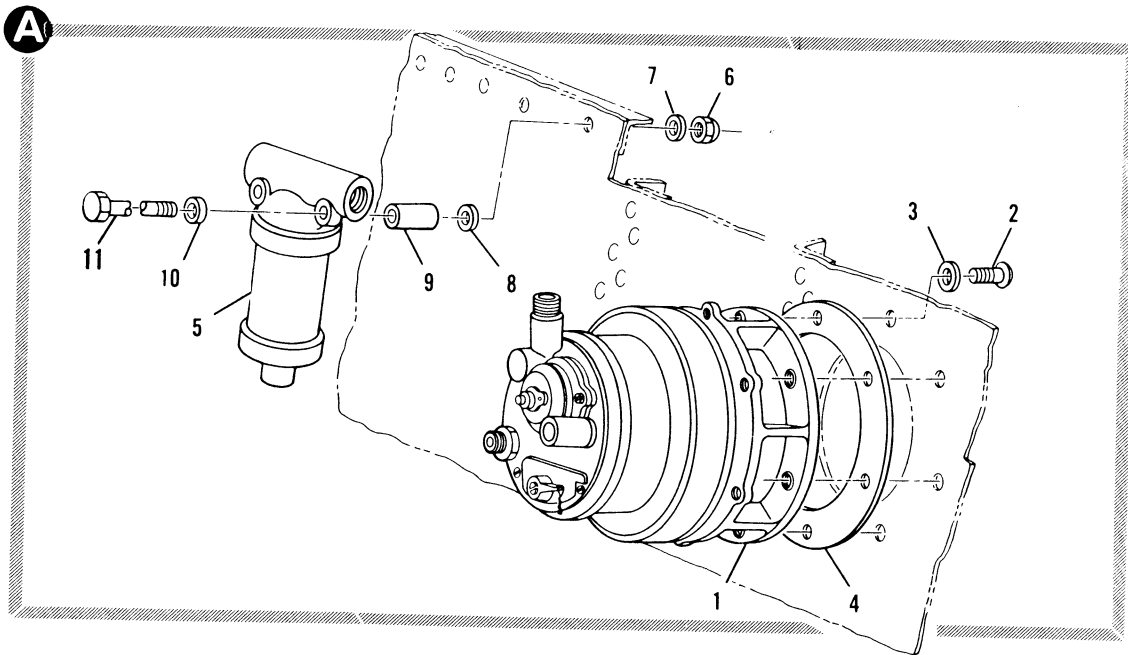
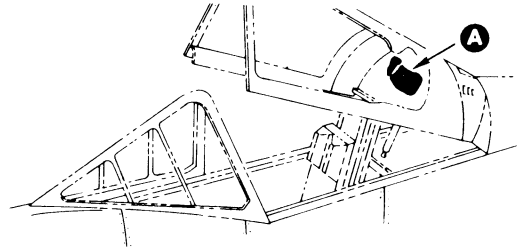


Figure 2.13-19. Cockpit Air Safety Valve Installation

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-19	8-23330	VALVE INSTALLATION, COCKPIT AIR SAFETY FOR NHA SEE FIG. 2.3-3	RF	35	
- 1	103089-40	• VALVE ASSY, <70210> SPEC 8-C2285-3 T.O. 15A2-4-4-93 ATTACHING PARTS	1	35	
- 2	AN526-1032R12	• SCREW	6	35	
- 3	AN960-10	• WASHER -----X-----	6	35	
- 4	8-87272	• GASKET	1	35	
- 5	AV181376	• VALVE ASSY, SOLENOID <73760> 99-35000-001 T.O. 6J15-10-1-54 ATTACHING PARTS	1	35	
- 6	NAS679A3	• NUT	2	35	
- 7	AN960D10	• WASHER	2	35	
- 8	99-51509-006	• WASHER	2	35	
- 9	NAS43DD3-32	• SPACER	2	35	
- 10	NAS43DD3-12	• SPACER	2	35	
- 11	AN3-20A	• BOLT -----X-----	2	35	

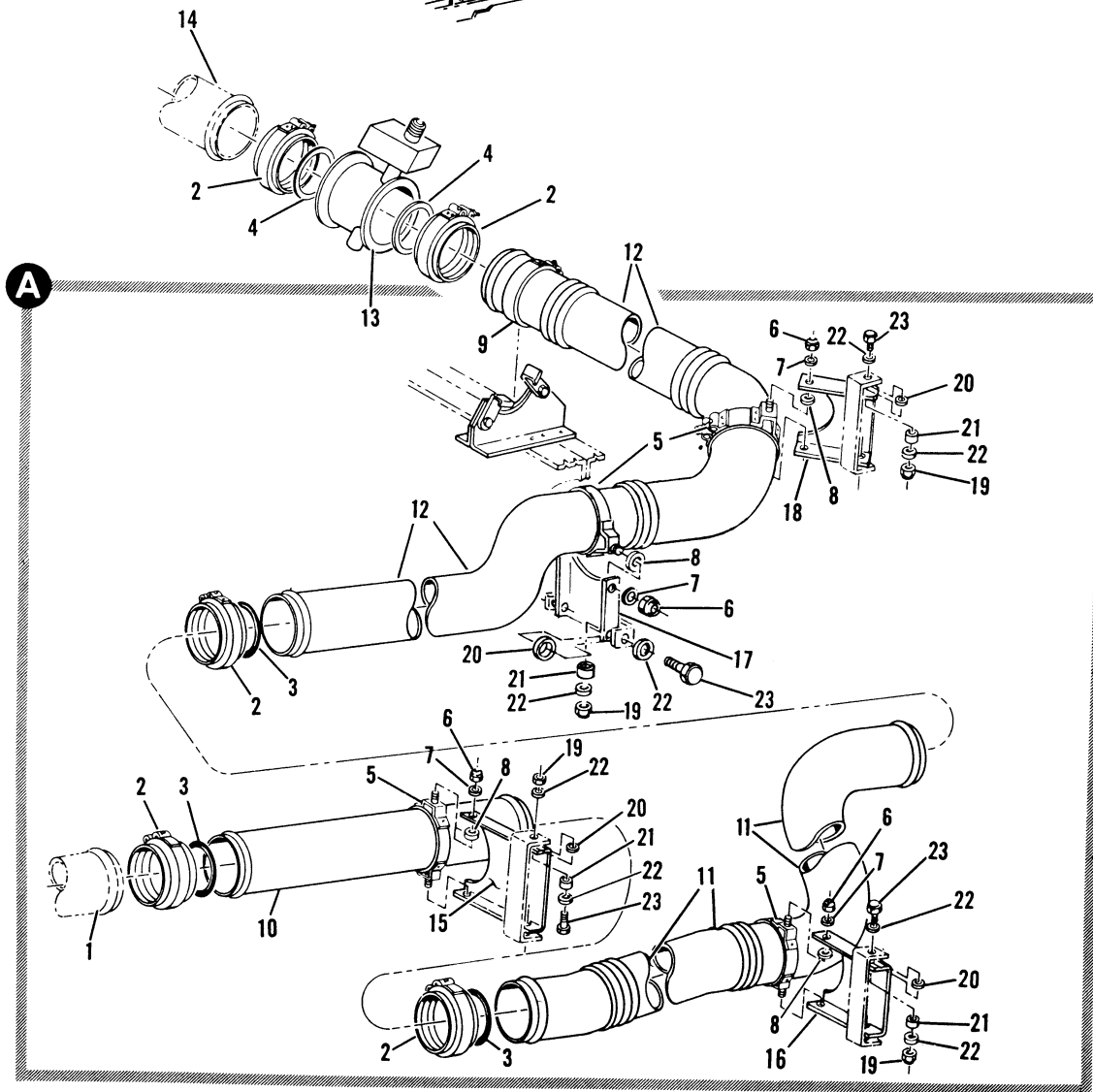
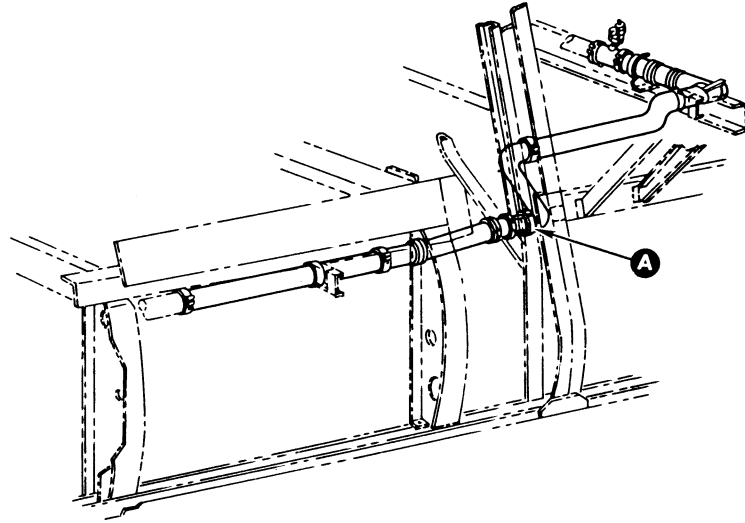
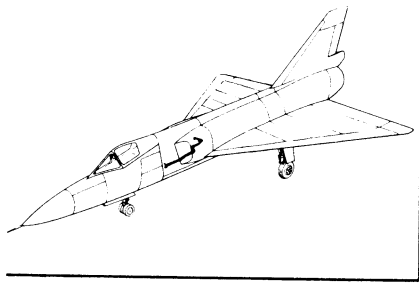


Figure 2.13-20. Windshield Rain Removal Duct Installation Sta 227 to 295

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-20	8-23450-1	DUCT INSTALLATION, WINDSHIELD RAIN REMOVAL STA 227 TO 295 FOR NHA SEE FIG. 2.3-3	RF	35	
- 1		• DUCT INSTL, RAIN REMOVAL SEE FIG. 2.3-15	RF		
- 2	24502-175	• COUPLING, <98625> 92-73002-006	5	35	
- 3	17189-175C	• GASKET, <98625> 94-16009-002	3	35	
- 4	24096-175C	• GASKET, <98625> 94-16005-003	2	35	
- 5	50240-2.000	• SUPPORT, CLAMP <98625> 98-50000-011	4	35	
		ATTACHING PARTS			
- 6	NAS679A3	• NUT	8	35	
- 7	AN960-10	• WASHER	8	35	
- 8	AN960-416L	• WASHER	8	35	
		-----X-----			
- 9	320-52-225M	• CLAMP, <98625> 91-97802-029	1	35	
- 10	8-23427	• DUCT ASSY, WELDED REPLACED BY SUITABLE SUB 8-23427-1	1	35	159
	8-23427-1	• DUCT ASSY, WELDED REPLACES SUITABLE SUB FOR 8-23427	1	160	
- 11	8-23439	• DUCT ASSY, WELDED REPLACED BY SUITABLE SUB 8-23439-1	1	35	159
	8-23439-1	• DUCT ASSY, WELDED REPLACES SUITABLE SUB FOR 8-23439	1	160	
- 12	8-23432-1	• DUCT ASSY, WELDED REPLACED BY SUITABLE SUB 8-23432-3	1	35	159
	8-23432-3	• DUCT ASSY, WELDED REPLACES SUITABLE SUB FOR 8-23432-1	1	160	
- 13	105946	• VALVE, SOLENOID <7210> SPEC 8-C2974-1 T.O. 15E2-516-3	1	35	
- 14		• DUCT INSTL, ENGINE BLEED AIR SEE FIG. 2.13-25	RF		
- 15	8-23435	• SUPPORT ASSY, WELDED	1	35	
- 16	8-23435-1	• SUPPORT ASSY, WELDED	1	35	
- 17	8-23435-3	• SUPPORT ASSY, WELDED	1	35	
- 18	8-23437	• SUPPORT ASSY, WELDED	1	35	
		ATTACHING PARTS			
- 19	NAS679A3	• NUT	8	35	
- 20	NAS43HT6-6	• SPACER	8	35	
- 21	NAS43HT3-10	• SPACER	8	35	
- 22	AN960-10L	• WASHER	16	35	
- 23	AN3-5A	• BOLT	8	35	
		-----X-----			

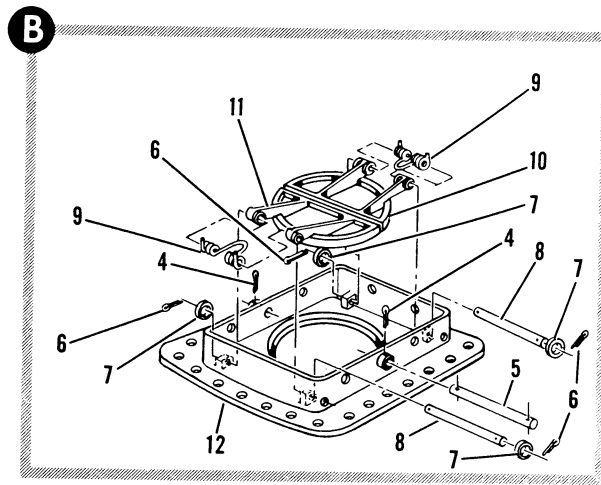
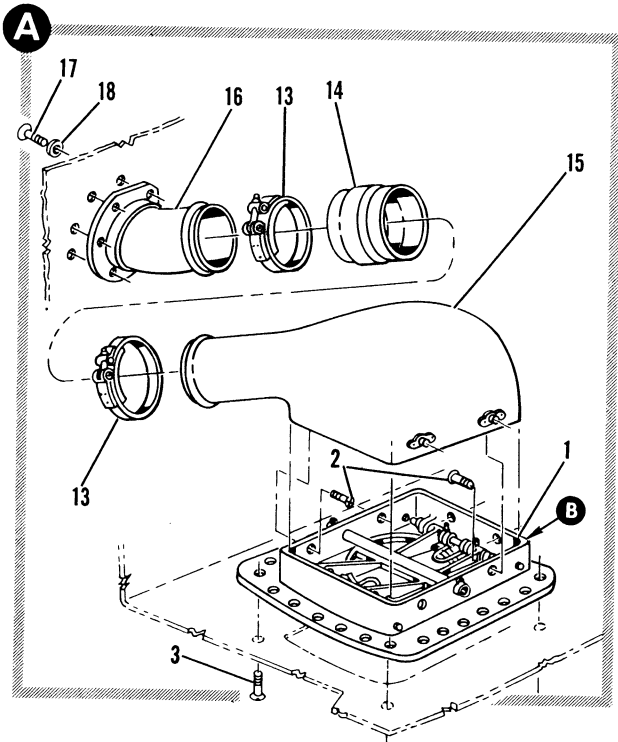
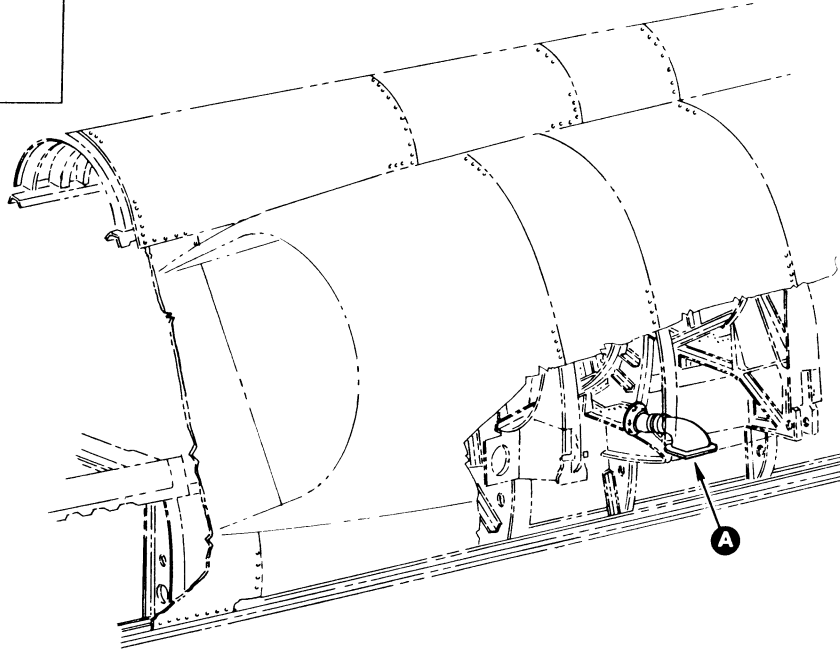
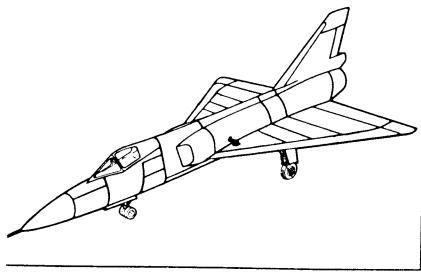


Figure 2.13-21. Armament Bay Ground Air-Conditioning Duct Installation

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-21	8-23680	DUCT INSTL, ARMAMENT BAY GROUND AIR-CONDITIONING CONNECTOR STA 340 FOR NHA SEE FIG. 2.3-11	RF	35	
- 1	8-23686	• DOOR ASSY, ARMAMENT BAY GROUND AIR-CONDITIONING ACCESS ATTACHING PARTS	1	35	
- 2	AN526-1032R6	• SCREW	6	35	
- 3	NAS333PA4-5	• SCREW	26	35	
- 4	AN380-2-3	• • PIN, COTTER	2	35	
- 5	8-23548	• • SHAFT	1	35	
- 6	AN380-2-1	• • PIN	4	35	
- 7	AN960C10	• • WASHER	4	35	
- 8	8-23528	• • PIN	2	35	
- 9	8-00638-1	• • SPRING	2	35	
- 10	8-23547-19	• • DOOR	1	35	
- 11	8-23547-21	• • DOOR	1	35	
- 12	8-777#5-11	• • FRAME	1	35	
- 13	321-26-420S	• CLAMP	2	35	
- 14	AD297-1	• COUPLING, FLEXIBLE LOOP <78R#1> SPEC 8-00297-1	1	35	
- 15	8-23681	• DUCT ASSY, GROUND HEATING TRANSITION RIVETED	1	35	
- 16	8-23682	• DUCT ASSY, ARMAMENT BAY HEATING WELDED ATTACHING PARTS	1	35	
- 17	AN526C1032R6	• SCREW	6	35	
- 18	AN960PD10L	• WASHER	6	35	

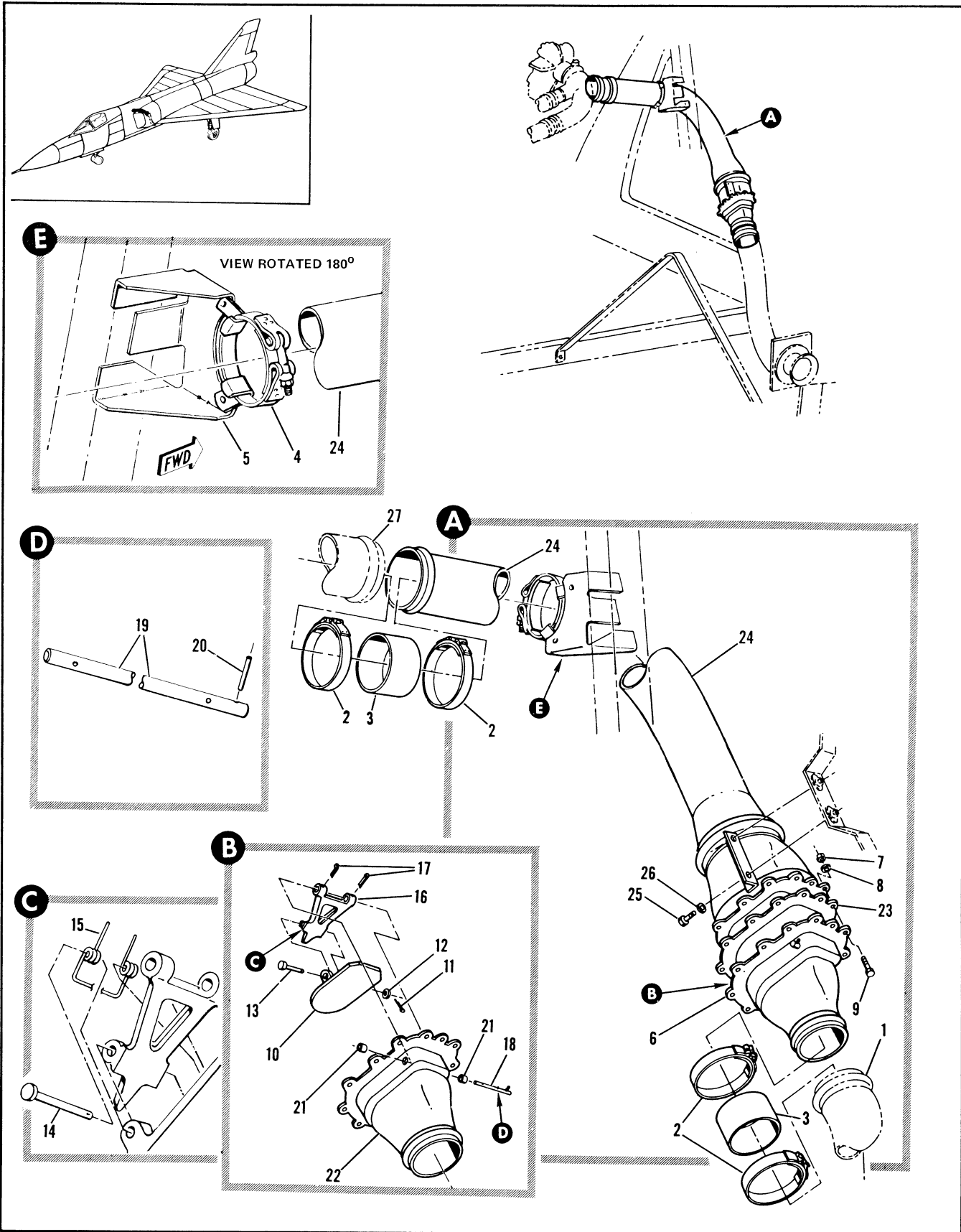


Figure 2.13-22. Ground Cooling Duct Installation



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-22	8-23580	DUCT INSTALLATION, GROUND COOLING FOR NHA SEE FIG. 2.3-10	RF	35	
- 1		• DUCT ASSY, SFE FIG. 2.13-1 INDEX 144	RF		
- 2	361-62-420S	• CLAMP, <98625> 91-97801-020	4	35	
- 3	AD297-1	COUPLING, FLEXIBLE <92799> SPEC 8-00297-1	2	35	
- 4	326-62-400M	• CLAMP, <98625> 91-97801-006	1	35	
- 5	8-23578-1	• SUPPORT ASSY, RIVETED	1	160	
- 6	8-23640-1	• VALVE ASSY, GROUND COOLING REPLACED BY SUITABLE SUB 8-23640-3	1	35	89
	8-23640-3	• VALVE ASSY, GROUND COOLING REPLACES SUITABLE SUB FOR 8-23640-1 ATTACHING PARTS	1	190	
- 7	NAS679A3	• NUT	11	35	
- 8	AN960C10	• WASHER	11	35	
- 9	AN3H4A	• BOLT	11	35	
		-----X-----			
- 10	8-23553-9	• FLAPPER ATTACHING PARTS	1	35	
- 11	AN380-2-1	• PIN, COTTER	1	35	
- 12	AN960-4L	• WASHER	1	35	
- 13	AN392-57	• PIN	1	35	89
- 14	MS20392-1-63	• PIN	1	90	
		-----X-----			
- 15	8-23641	• SPRING	1	90	
- 16	8-23552-7	• ARM	1	35	
- 17	AN300-1-3	• PIN, COTTER	2	35	
- 18	8-23559-1	• SHAFT ASSEMBLY	1	35	
- 19	8-23559-9	• SHAFT	1	35	
- 20	79-012-062-3625	• PIN, <72962> 96-79301-005	1	35	
- 21	8-23564	• BUSHING	2	35	
- 22	8-23551-7	• BODY	1	35	
- 23	8-23556	• GASKET	1	35	
- 24	8-23563-1	• DUCT ASSY, TRANSITION WELDED REPLACES SUITABLE SUB FOR 8-23563 ATTACHING PARTS	1	160	
- 25	AN3-3A	• BOLT	2	35	
- 26	AN960C10	• WASHER	2	35	
		-----X-----			
- 27		• DUCT ASSY, REFRIGERATION TURBINE OUTLET SEE FIG. 2.13-31 INDEX 8	RF		

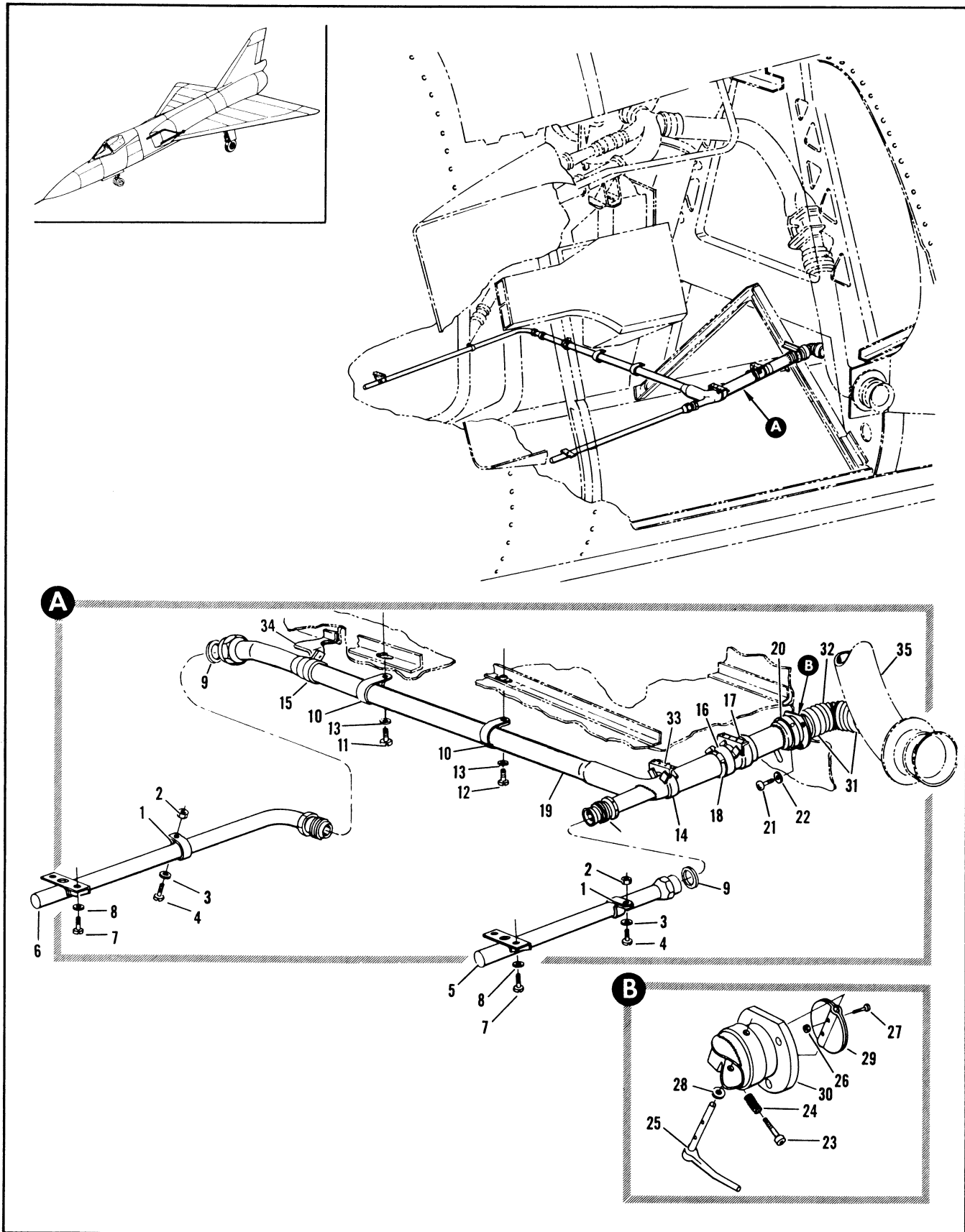


Figure 2.13-23. Ground Air-Conditioning Duct Installation

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-23	8-23990-1	DUCT INSTALLATION, GROUND AIR-CONDITIONING FOR NHA SEE FIG. 2.3-13	RF	35	
- 1	AN735-20	• CLAMP	2	35	
		ATTACHING PARTS			
- 2	NAS679A3	• NUT	2	35	
- 3	AN960PD10L	• WASHER	2	35	
- 4	NAS221-9	• SCREW	2	35	
		-----X-----			
- 5	8-23994-1	• DUCT ASSY, GROUND AIR DELIVERY LH WELDED REPLACED BY SUITABLE SUB 8-23994-3	1	35	129
	8-23994-3	• DUCT ASSY, GROUND AIR DELIVERY LH WELDED REPLACES SUITABLE SUB FOR 8-23994-1	1	130	
- 6	8-23993-1	• DUCT ASSY, GROUND AIR DELIVERY RH WELDED REPLACED BY SUITABLE SUB 8-23993-3	1	35	129
	8-23993-3	• DUCT ASSY, GROUND AIR DELIVERY RH WELDED REPLACES SUITABLE SUB FOR 8-23993-1	1	130	
		ATTACHING PARTS			
- 7	NAS221-9	• SCREW	4	35	
- 8	AN960PD10L	• WASHER	4	35	
		-----X-----			
- 9	NAS592-20	• RING	2	35	
- 10	MS21919D628	• CLAMP	2	35	
		ATTACHING PARTS			
- 11	NAS221-9	• SCREW	1	35	
- 12	AN4-5A	• BOLT	1	35	
- 13	AN960PD10L	• WASHER	2	35	
		-----X-----			
- 14	AN737W74	• CLAMP	1	35	
- 15	AN737TW66	• CLAMP	1	35	
- 16	AN737TW82	• CLAMP	1	35	188
	AN737TW74	• CLAMP	1	189	
- 17	AN737TW74	• CLAMP	1	35	
- 18	NAS521-16-12	• COUPLING	1	35	
- 19	8-23992-5	• DUCT ASSY, GROUND AIR DISTRIBUTION WELDED REPLACED BY SUITABLE SUB 8-23992-801	1	35	188
	8-23992-801	• DUCT ASSY, GROUND AIR DISTRIBUTION WELDED REPLACES SUITABLE SUB FOR 8-23992-5	1	189	
- 20	8-23607	• VALVE ASSY, BUTTERFLY	1	35	
		ATTACHING PARTS			
- 21	NAS221-9	• SCREW	3	35	
- 22	AN960PD10L	• WASHER	3	35	
		-----X-----			
- 23	8-23614	• PIN, VALVE BUTTERFLY MANUAL	1	35	
- 24	8-02932-1	• SPRING	1	35	
- 25	8-23607-13	• ARM ASSY, WELDED	1	35	
		ATTACHING PARTS			
- 26	NAS679AC4	• NUT	2	35	
- 27	AN515C4R8	• SCREW	2	35	
		-----X-----			
- 28	AN960-416L	• WASHER	1	35	
- 29	8-23609	• BUTTERFLY ASSY, WELDED	1	35	
- 30	8-23607-15	• BODY ASSY, WELDED	1	35	
- 31	AN737TW74	• CLAMP	2	35	
- 32	13-116B	• DUCT, GROUND AIR CONDITIONING FLEXIBLE SPEC 8-00490-1	1	35	
- 33	8-23996	• BRACKET	1	35	
- 34	8-23995	• BRACKET	1	35	
- 35		• DUCT ASSY, SEE FIG. 2.13-1 INDEX 144	RF		

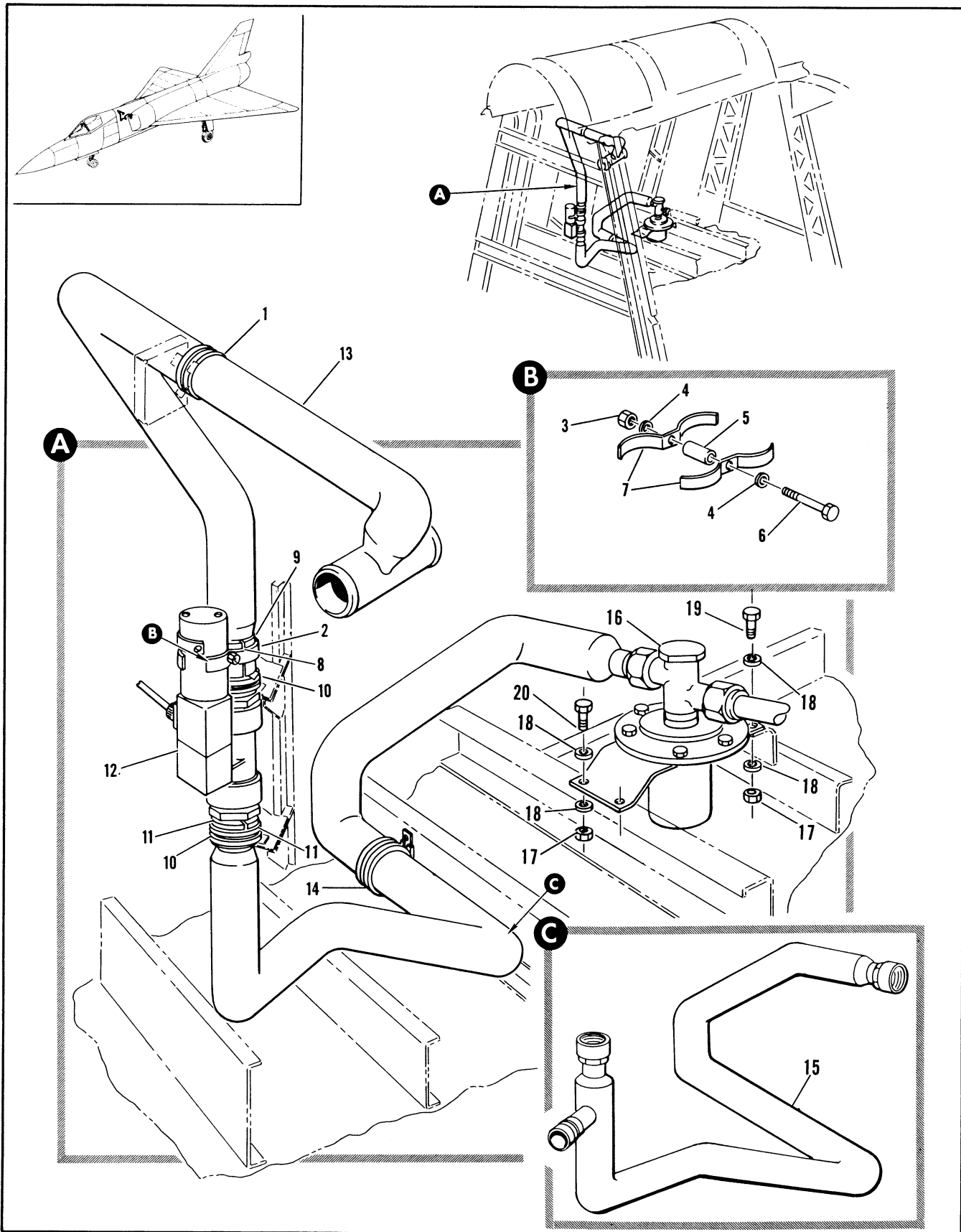


Figure 2.13-24. Cockpit Hot Air Bypass Duct Installation Sta 267 to 309

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-24	8-23575-1	DUCT INSTALLATION, COCKPIT HOT AIR BYPASS STA 267 TO 309 FOR NHA SEE FIG. 2.3-1?	RF	35	
- 1	320-62-225M	• CLAMP, <98625> 91-97802-029	1	35	
- 2	8-23540-17	• CLAMP ASSY, COCKPIT HOT AIR BYPASS	1	35	
- 3	NAS679C3	• • NUT	1	35	
- 4	99-51509-006	• • WASHER	2	35	
- 5	NAS43HT3-66	• • SPACER	1	35	
- 6	AN3C15A	• • BOLT	1	35	
- 7	8-23540-25	• • BRACKET	2	35	
- 8	8-23542-13	• INSULATOR, HALF	1	35	
- 9	8-23542-15	• INSULATOR, HALF	1	35	
- 10	320C62-1R1SH	• CLAMP, <98625> 91-97802-026	2	35	
- 11	8-23542-11	• INSULATOR, HALF	2	35	
- 12	DYLZ5701	• VALVE ASSY, COCKPIT TEMPERATURE CONTROL <65149> SPEC 8-02958-3 T.O. 15A2-2-14-63	1	35	
- 13	8-23842	• TUBE ASSY, COCKPIT HOT AIR BYPASS WELDED REPLACED BY SUITABLE SUB 8-23842-3	1	35	159
	8-23842-3	• TUBE ASSY, COCKPIT HOT AIR BYPASS WELDED REPLACES SUITABLE SUB FOR 8-23842	1	160	
- 14	320C62-206SH	• CLAMP, <98625> 91-97802-024	1	35	
- 15	8-23576-803	• DUCT ASSY, COCKPIT HOT AIR BYPASS WELDED REPLACES NOT INTCHG WITH 8-23576-5	1	241	
- 16	108390-6	• VALVE ASSY, REGULATOR AND SHUTOFF HOT AIR PRESSURE <70210> SPEC 8-02977-13 T.O. 15E2-4-6-114 REPLACES SUITABLE SUB FOR 108390 ATTACHING PARTS	1	241	
- 17	NAS679C3	• NUT	4	35	
- 18	AN960PD10L	• WASHER	8	35	
- 19	AN3C4A	• BOLT	4	35	
		-----X-----			

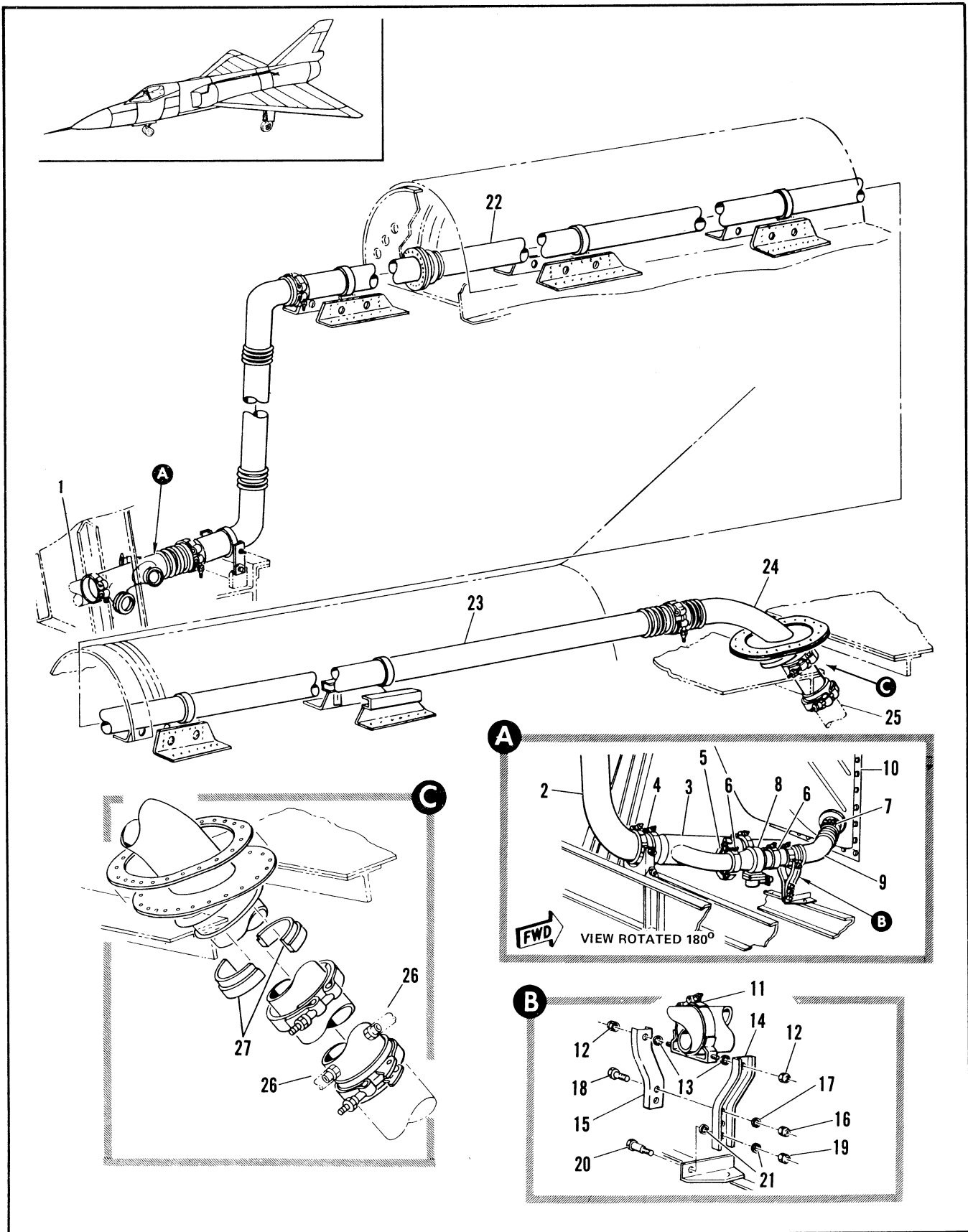


Figure 2.13-25. Engine Bleed Air Duct Installation

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
				1	2 3 4 5 6
2.13-25- 1		• HEAT EXCHANGER ASSY, REFRIGERATION UNIT SEE FIG. 2.13-31	RF		
- 2	8-23246-803	• DUCT ASSY, BLEED AIR EJECTOR	1	278	303
	8-23246-801	• DUCT ASSY, BLEED AIR EJECTOR	1	304	
- 3	8-23246-5	• DUCT ASSY, BLEED AIR EJECTOR	1	278	
- 4	24503-300	• CLAMP V BAND CRES	1	35	
- 5	634-1	• INSULATION ASSY, CLAMP COVER SPEC 8-00452-1	1	278	
	17189-300C	• GASKET, <98625> 94-16009-005	1	278	
- 6	24502-175	• COUPLING, <98625> 92-73012-011	2	278	
	24096-175C	• GASKET, <98625> 94-16005-003	2	278	
- 7	24502-175	• COUPLING, <98625> 92-73012-011	1	278	
	17189-175C	• GASKET, <98625> 94-16009-002	1	278	
- 8	21013	• VALVE, JET PUMP BLEED AIR EJECTOR SYSTEM SPEC 8-09995-1 T.O. 15A2-2-91-3	1	278	
- 9	8-23245-1	• DUCT ASSY, BLEED AIR EJECTOR ELBOW	1	278	
- 10		• HEADER AND EJECTOR ASSY, SEE FIG. 2.13-31	RF		
- 11	54077-175	• SUPPORT, <98625> 98-60000-062 ATTACHING PARTS	1	278	
- 12	NAS1291-3	• NUT	2	278	
- 13	99-53000-125	• WASHER	2	278	
		----X----			
- 14	8-23244-15	• SUPPORT	1	278	
- 15	8-23244-17	• SUPPORT ATTACHING PARTS	1	278	
- 16	NAS679C3	• NUT	2	278	
- 17	AN960C16L	• WASHER	2	278	
- 18	AN3C4A	• BOLT	2	278	
- 19	NAS679A3	• NUT	1	278	
- 20	AN960C416L	• WASHER	2	278	
- 21	NAS1297-3-2	• BOLT	1	278	
		----X----			
- 22	68E37334-1	• DUCT, ENGINE BLEED AIR, WELDED, MODI- FIED FROM 8-23225-1	1	35	
- 23	68E37334-3	• DUCT, ENGINE BLEED AIR, WELDED, MODI- FIED FROM 8-23225-1	1	35	
- 24	8-23224-803	• DUCT ASSY, SEE FIG. 2.13-26	RF		
- 25		• DUCT ASSY, ENGINE BLEED AIR MANIFOLD SEE FIG. 2.10-7 INDEX 42	RF		
- 26		• HOSE ASSY, FLEX	RF		
- 27	8-23201	• INSULATOR	1	35	

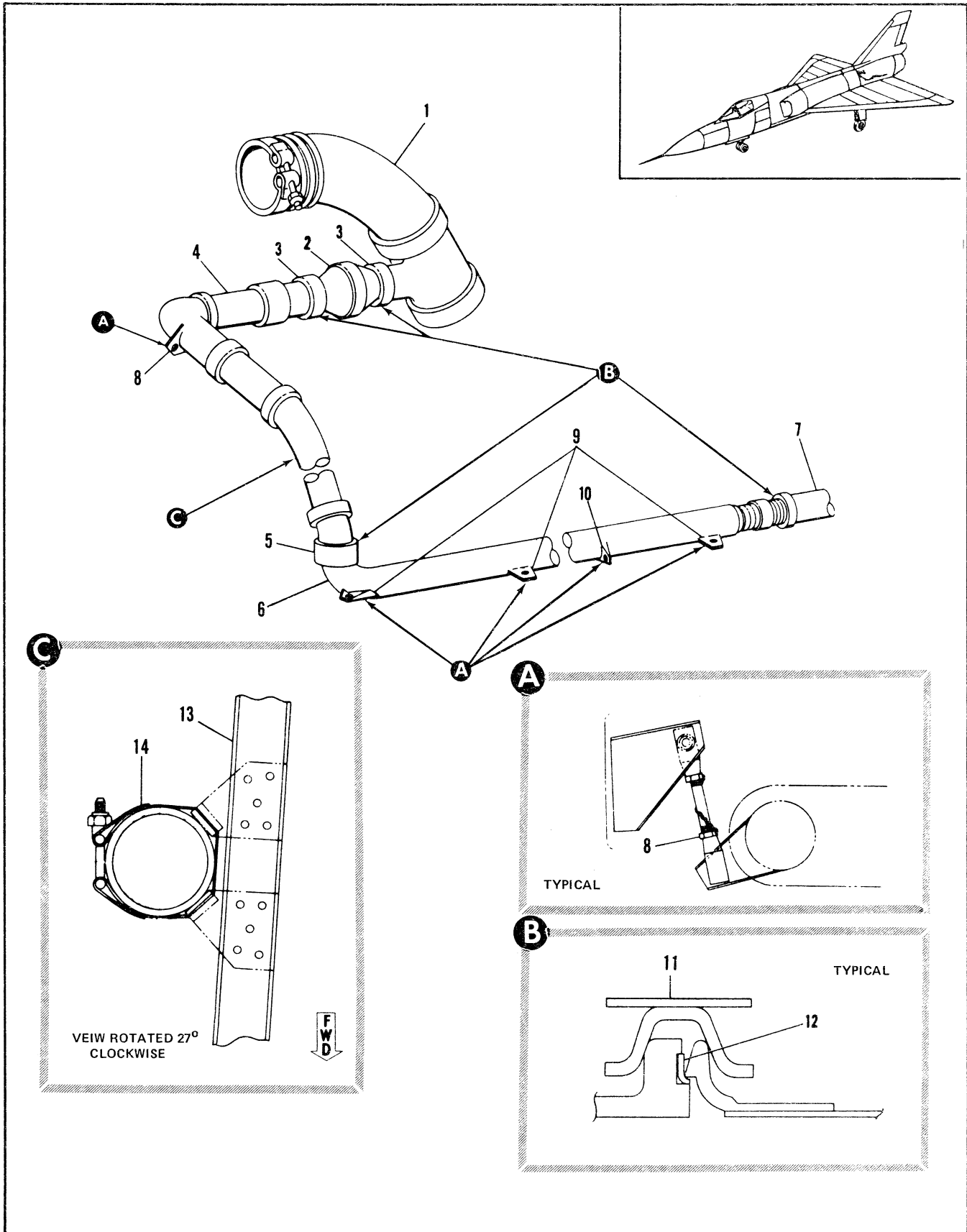




FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-26	8-80303	DUCT INSTALLATION, ENGINE BLEED AIR TO AIR DRIVEN EMERGENCY AC GENERATOR	RF		
- 1	8-23224-803	• DUCT ASSY	1		
- 2	21013	• VALVE, SHUTOFF	1		
- 3	24502-175	• CLAMP	2		
	24096-175-C	• GASKET	2		
- 4	8-80305-1	• DUCT ASSY	1		
- 5	634-1	• INSULATION ASSY	1		
	24505-175	• CLAMP	1		
	17189-175-C-1	• GASKET	1		
- 6	8-80306-1	• DUCT ASSY	1		
	8-80306-3	• DUCT ASSY, ALT INTCHG	RF		
- 7		• GENERATOR INSTALLATION, SEE FIG. 2.17-8	RF		
		INDEX 57			
- 8	90-45201-001	• JOINT ASSY	2		
	NAS354-4-240	• ROD	1		
	NAS509-4	• NUT	2		
	AN960-416L	• WASHER	4		
	NAS1291-4	• NUT	2		
- 9	90-45201-001	• JOINT ASSY	6		
	NAS354-4-300	• ROD	3		
	NAS509-4	• NUT	6		
	AN960-416L	• WASHER	12		
	NAS1291-4	• NUT	6		
- 10	90-45201-001	• JOINT ASSY	2		
	NAS354-4-310	• ROD	1		
	NAS509-4	• NUT	2		
	AN960-416L	• WASHER	4		
	NAS1291-4	• NUT	2		
- 11	24502-175	• CLAMP	1		
- 12	24096-175-C	• GASKET	1		
- 13	8-80303-37	• CHANNEL	RF		
- 14	91-97815-013	• CLAMP	1		

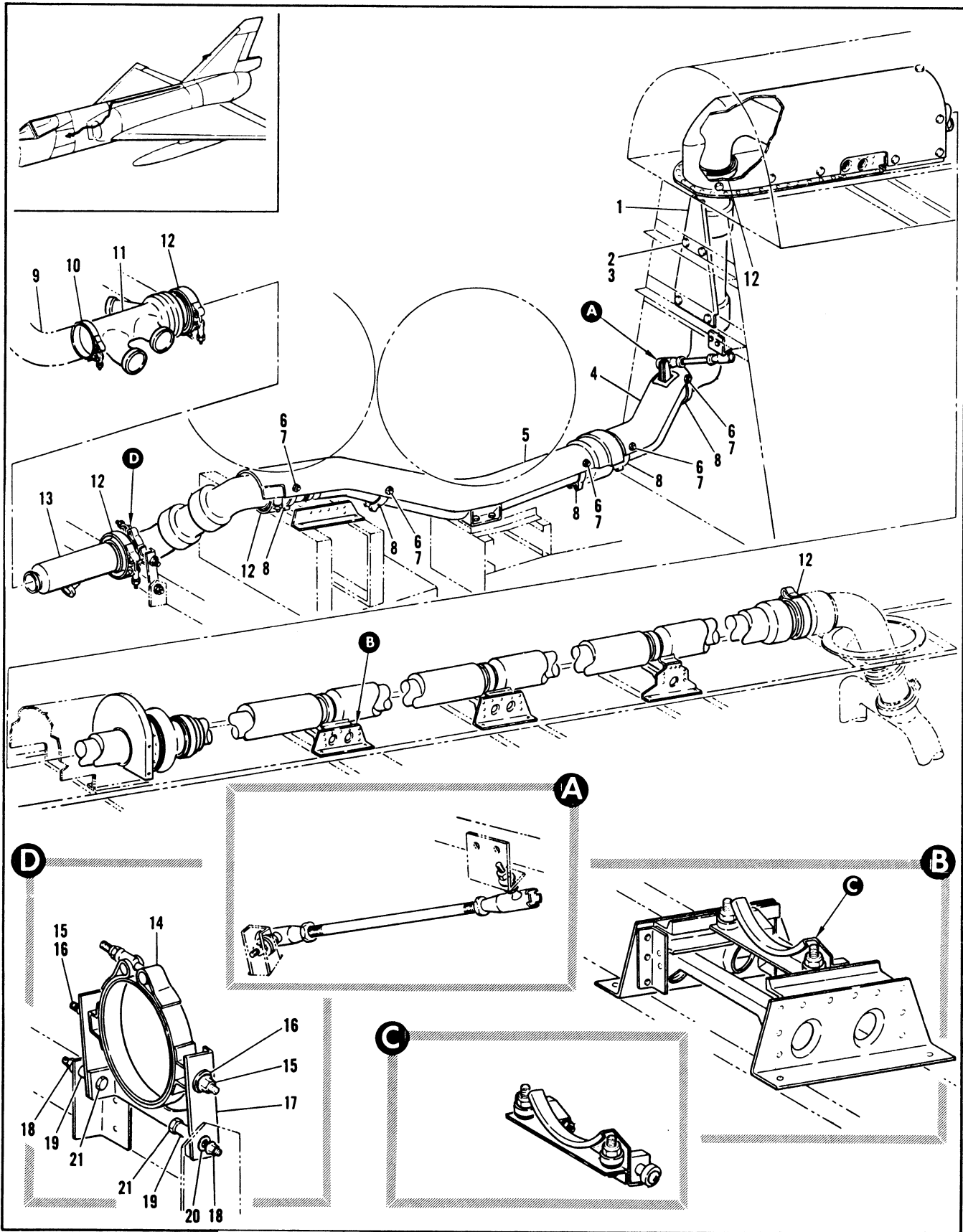


Figure 2.13-27. Engine Bleed Air Duct Installation (Sheet 1 of 2)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-27	8-23200	DUCT INSTL, ENGINE BLEED AIR MODIFIED BY 66J40228 FOR NHA SEE FIG. 2.3-3	RF		
	8-23200-3	DUCT INSTL, ENGINE BLEED AIR MODIFIED BY 66J40228 FOR NHA SEE FIG. 2.3-3	RF		
	8-23200-5	DUCT INSTL, ENGINE BLEED AIR MODIFIED BY 66J40228 FOR NHA SEE FIG. 2.3-3	RF		
- 1	66J40462-1 66D40513-1	• SHROUD INSTL, BLEED AIR DUCT • • BAFFLE ASSY, RIVETED ATTACHING PARTS	1 1		
- 2	AN3-4A	• • BOLT	4		
- 3	AN960010L	• • WASHER -----X-----	4		
- 4	66E40603-1	• • SHROUD, AFT	1		
- 5	66J40512-1	• • SHROUD, FWD ATTACHING PARTS	1		
- 6	MS21042L3	• • NUT	10		
- 7	AN960010L	• • WASHER	10		
- 8	900-400-2-3A	• • CLAMP (98625) -----X-----	5		
- 9		• HEAT EXCHANGER ASSY, REFRIGERATION UNIT SEE FIG. 2.13-31 INDEX 53	RF		
- 10	24502-250	• COUPLING (98625) 92-73002-001	1		
	17189-250C	• GASKET (98625) 94-16009-004	1		
- 11	8-23208-5	• DUCT ASSY, BLEED AIR WELDED REPLACED BY SUITABLE SUBSTITUTE 8-23208-805	1		
	8-23208-805	• DUCT ASSY, BLEED AIR WELDED REPLACES SUITABLE SUBSTITUTE FOR 8-23208-5	1		
- 12	24503-300	• CLAMP, V BAND CRES (98625)	5		
	17189-300C	• GASKET (98625) 94-16009-005	5		
- 13	8-23246-5	• DUCT ASSY, BLEED AIR EJECTOR	1		
- 14	50240-325	• SUPPORT (98625) ATTACHING PARTS	1		
- 15	MS21042L4	• NUT	2		
- 16	AN960-416L	• WASHER -----X-----	2		
- 17	66C40446-1	• BRACKET ASSY, WELDED ATTACHING PARTS	1		
- 18	NAS21042L3	• NUT	2		
- 19	NAS43HT3-28	• SPACER	2		
- 20	AN960-516L	• WASHER	1		
- 21	AN3-7A	• BOLT -----X-----	2		

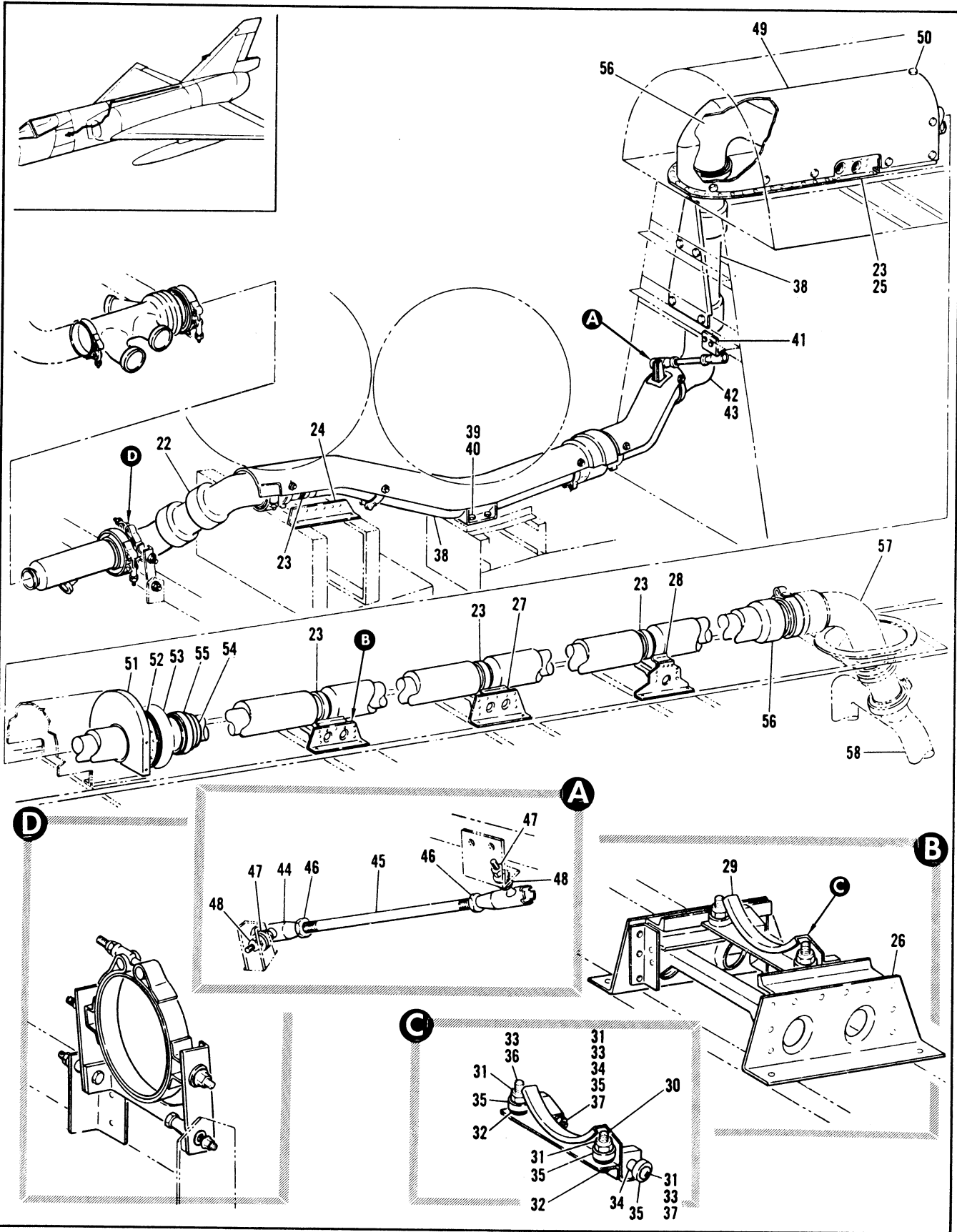


Figure 2.13-27. Engine Bleed Air Duct Installation (Sheet 2 of 2)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-27- 22	66J40229-6	. DUCT ASSY, WELDED (98750)	1		
- 23	325-62-325M	. CLAMP (98625) 91-97802-010	5		
- 24	8-23220-801	. SUPPORT ASSY, MODIFIED BY 66J40228 (98750)	1		
	8-23220-805	. SUPPORT ASSY, MODIFIED BY 66J40228 (98750)	1		
- 25	8-23220	. SUPPORT ASSY, MODIFIED BY 66J40228 (98750)	1		
- 26	8-23220-3	. SUPPORT ASSY, STA 412 TO 418.5	1		
- 27	8-23220-1	. SUPPORT ASSY, STA 451.9 TO 458.3	1		
	8-23220-809	. SUPPORT ASSY, STA 451.9 TO 458.3	1		
- 28	8-23220-803	. SUPPORT ASSY, STA 495.8 TO 502.9	1		
- 29	8-23210	. . . ROLLER ASSY, ENGINE BLEED AIR	1		
- 30	8-23210-15	. . . BLOCK ASSY, RIVETED	1		
- 31	NAS679A3	. . . NUT (80205)	4		
- 32	AN960-10	. . . WASHER (88044)	4		
- 33	AN960-10L	. . . WASHER (88044)	4		
- 34	NAS43HT3-16	. . . SPACER (80205)	2		
- 35	MS27641-3	. . . BEARING (96906)	4		
- 36	NAS221-14	. . . SCREW (80205)	2		
- 37	NAS221-30	. . . SCREW (80205)	2		
- 38	66J40230-16	. DUCT ASSY, WELDED (98750)	1		
- 39	AN3C4	. BOLT (88044)	4		
- 40	66C40449-1	. WASHER (98750)	4		
- 41	66C40233-1	. DUCT SUPPORT (98750)	1		
		ATTACHING PARTS			
- 42	MS21042L3	. NUT (96906)	2		
- 43	AN3-4	. BOLT (88044)	2		
		-----X-----			
- 44	AN276-6	. JOINT ASSY (88044)	2		
- 45	NAS354-4-210	. ROD (80205)	1		
- 46	NAS509-4	. NUT (80205)	2		
- 47	MS21042L4	. NUT (96906)	2		
- 48	AN960-416L	. WASHER (88044)	2		
- 49	66J40461-1	. COVER ASSY (98750)	1		
		ATTACHING PARTS			
- 50	NAS1103-1	. BOLT (80205)	13		
		-----X-----			
- 51	66E40453-1	. FLANGE ASSY, RIVETED (98750)	1		
- 52	8-23219-1	. RETAINER	1		
- 53	4591	. SEAL (98135) SPEC 8-02299-1	1		
- 54	8-23222	. . . INSULATOR	1		
- 55	325-62-431M	. CLAMP (98625) 91-97802-023	1		
- 56	66J40231-7	. DUCT ASSY, BLEED AIR (98750)	1		
- 57		. DUCT ASSY, SEE FIG. 2.13-25 INDEX 24	RF		
- 58		. DUCT ASSY, ENGINE BLEED AIR	RF		
		MANIFOLD SEE FIG. 2.10-7 INDEX 42			

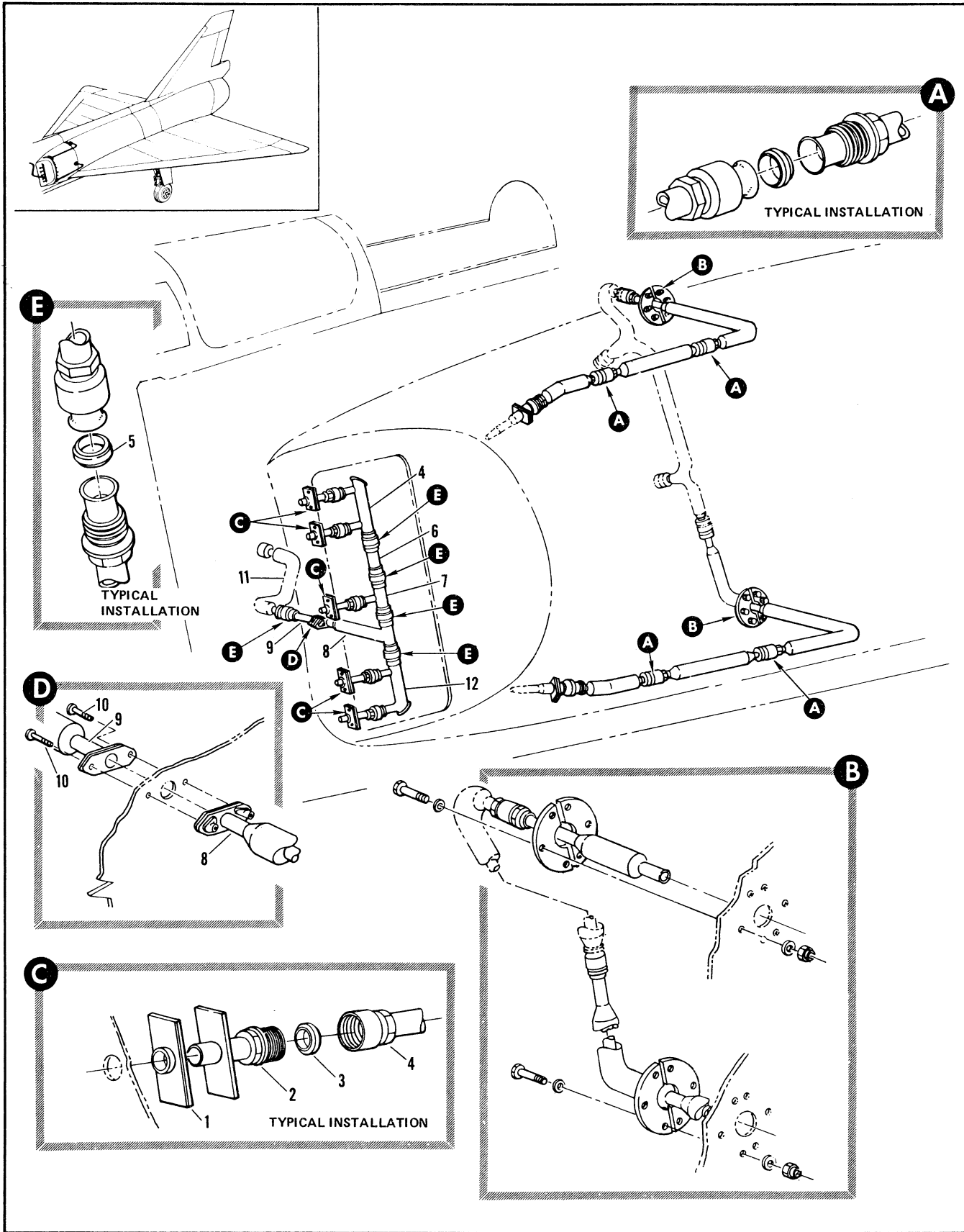


Figure 2.13-28. Leading Edge Duct Anti-Icing Tubing Installation (Sheet 1 of 2)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-28	8-77584-1	TUBING INSTALLATION, LEADING EDGE DUCT ANTI-ICING LH FOR MHA SEE FIG. 2.11-3	RF	35	
	8-77584-2	TUBING INSTALLATION, LEADING EDGE DUCT ANTI-ICING RH FOR MHA SEE FIG. 2.11-3	RF	35	
- 1	8-74545	. SLEEVE	5	35	
- 2	8-77511-21	. TUBE ASSEMBLY	5	35	
- 3	4185-6	. RING, <98159> 97-60502-001	5	35	
- 4	8-77511-25	. TUBE ASSY, WELDED REPLACED BY SUITABLE SUB 8-77511-225	1	35	159
	8-77511-225	. TUBE ASSY, WELDED REPLACES SUITABLE SUB FOR 8-77511-25	1	160	
	4184-6	. . COUPLING, <98159> 92-74004-001	2	35	
- 5	4185-10	. RING, <98159> 97-60502-002	5	35	129
	2838	. RING, <98159> 97-60502-005	5	160	
- 6	8-77511-29	. TUBE ASSEMBLY	1	35	
	4184-10	. . COUPLING, <98159> 92-74004-002	2	35	
- 7	8-77511-33	. TUBE ASSY, WELDED REPLACED BY SUITABLE SUB 8-77511-227	1	35	159
	8-77511-227	. TUBE ASSY, WELDED REPLACES SUITABLE SUB FOR 8-77511-33	1	160	
	4184-6	. . COUPLING, <98159> 92-74004-001	1	35	
- 8	8-77511-37	. TUBE ASSY, LH	1	35	
	8-77511-38	. TUBE ASSY, RH	1	35	
- 9	8-77511-127	. TUBE ASSY, WELDED REPLACED BY SUITABLE SUB 8-77511-233	1	35	159
	8-77511-233	. TUBE ASSY, WELDED REPLACES SUITABLE SUB FOR 8-77511-127	1	160	
		ATTACHING PARTS			
- 10	NAS221-10	. SCREW	2	35	
- 11		----X----			
		. TUBING INSTL, ANTI-ICING AIR INTAKE DUCT LIP SEE FIG. 2.13-29	RF		
- 12	8-77511-41	. TUBE ASSY, WELDED REPLACED BY SUITABLE SUB 8-77511-229	1	35	159
	8-77511-229	. TUBE ASSY, WELDED REPLACES SUITABLE SUB FOR 8-77511-41	1	160	
	4184-6	. . COUPLING, <98159> 92-74004-001	2	35	

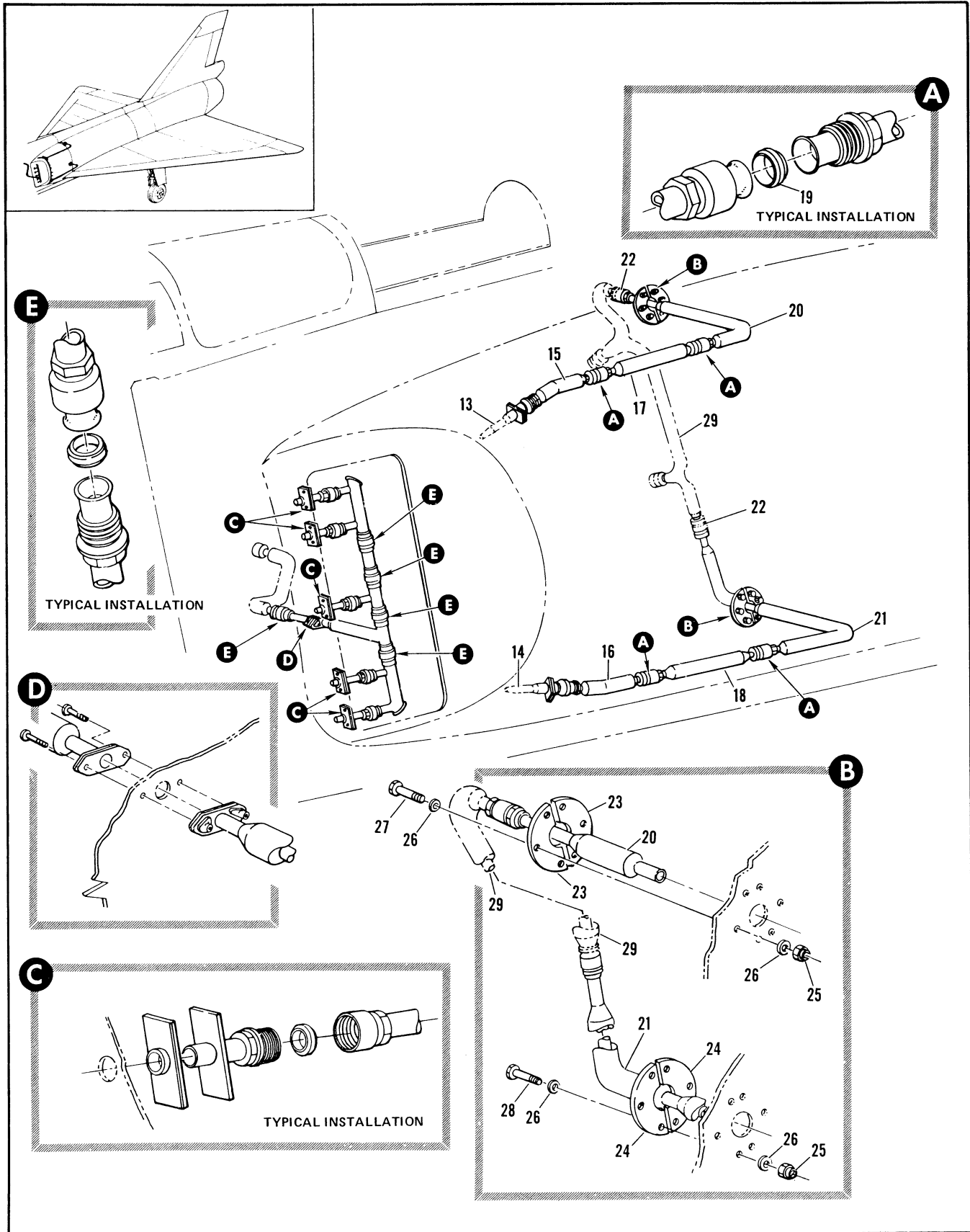


Figure 2.13-28. Leading Edge Duct Anti-Icing Tubing Installation (Sheet 2 of 2)



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-28- 13		• TUBE ASSY, UPPER LH SEE FIG. 2.11-3	RF		
- 14		• TUBE ASSY, LOWER LH SEE FIG. 2.11-3	1	35	
- 15	8-77584-61	• TUBE ASSY, UPPER LH WELDED	1	35	
	8-77584-62	• TUBE ASSY, UPPER RH WELDED	1	35	
- 16	8-77584-65	• TUBE ASSY, LOWER LH WELDED	1	35	
	8-77584-66	• TUBE ASSY, LOWER RH WELDED	1	35	
	2506-10	• . COUPLING, <98159> 92-74004-004	1	35	
- 17	8-77584-69	• TUBE ASSY, UPPER	1	35	
- 18	8-77584-71	• TUBE ASSY, LOWER	1	35	
	2506-10	• . COUPLING, <98159> 92-74004-004	1	35	
- 19	4185-10	• RING, RITE 97-60502-002	4	35	
- 20	8-77584-51	• TUBE ASSY, UPPER LH REPLACED BY NOT INTCHG WITH 8-77584-129	1	35	159
	8-77584-129	• TUBE ASSY, UPPER LH REPLACES NOT INTCHG WITH 8-77584-51	1	160	
	8-77584-52	• TUBE ASSY, UPPER RH REPLACED BY NOT INTCHG WITH 8-77584-130	1	35	159
	8-77584-130	• TUBE ASSY, UPPER RH REPLACES NOT INTCHG WITH 8-77584-52	1	160	
- 21	8-77584-55	• TUBE ASSY, LOWER LH REPLACED BY NOT INTCHG WITH 8-77584-139	1	35	159
	8-77584-139	• TUBE ASSY, LOWER LH REPLACES NOT INTCHG WITH 8-77584-55	1	160	
	8-77584-56	• TUBE ASSY, LOWER RH REPLACED BY NOT INTCHG WITH 8-77584-140	1	35	159
	8-77584-140	• TUBE ASSY, LOWER RH REPLACES NOT INTCHG WITH 8-77584-56	1	160	
	4184-10	• . COUPLING, <98159> 92-74004-002	1	35	60
	2506-10	• . COUPLING, <98155> 92-74004-004	1	61	
- 22	4185-10	• RING, <98159> 97-60502-002	2	35	159
	2838	• RING, <98159> 97-60502-005	2	160	
- 23	8-77511-221	• SEAL	2	35	
- 24	8-77511-223	• SEAL	2	35	
		ATTACHING PARTS			
- 25	AN310-3	• NUT	12	35	
- 26	AN960C10L	• WASHER	24	35	
- 27	AN3C5	• BOLT	6	35	
- 28	AN3C4	• BOLT	6	35	
		-----X-----			
- 29		• DUCT ASSY, ANTI-ICING LH WELDED SEE FIG. 2.13-29 INDEX 10	RF		

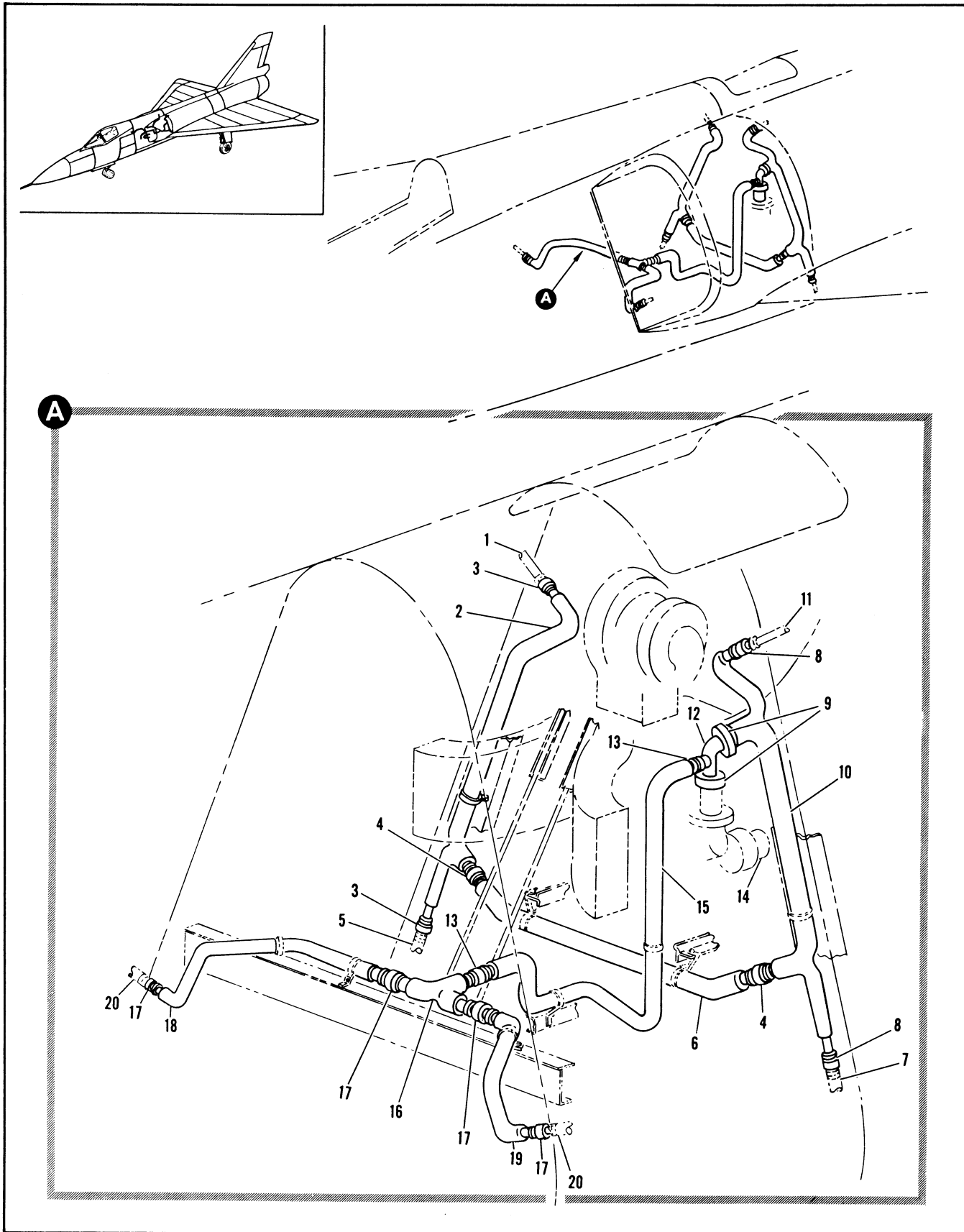


Figure 2.13-29. Anti-Icing Air Intake Duct Lip Tubing Installation

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-29	8-23800	TUBING INSTALLATION, ANTI-ICING AIR INTAKE DUCT LIP FOR NHA SEE FIG. 2.13-10	RF	35	
- 1		• TUBE ASSY, UPPER RH SEE FIG. 2.13-28	RF		
- 2	8-23804-1	• DUCT ASSY, ANTI-ICING RH WELDED REPLACED BY NOT INTCHG WITH 8-23804-5	1	35	159
	8-23804-5	• DUCT ASSY, ANTI-ICING RH WELDED REPLACES NOT INTCHG WITH 8-23804-1	1	160	
- 3	4185-10 2838	• RING, <98159> 97-60502-002	2	35	159
- 4	NAS595-16 2894	• RING, <98159> 97-60502-005	2	160	
		• RING	2	35	159
- 5		• RING, <98159> 97-60502-006	2	160	
		• TUBE ASSY, LOWER RH SEE FIG. 2.13-28	RF		
- 6	8-23807	• TUBE ASSY, AFT CONNECTING REPLACED BY NOT INTCHG WITH 8-23807-3	1	35	159
	8-23807-3	• TUBE ASSY, AFT CONNECTING REPLACES NOT INTCHG WITH 8-23807	1	160	
- 7		• TUBE ASSY, LOWER LH SEE FIG. 2.13-28 INDEX 21	RF		
- 8	4185-10 2838	• RING, <98159> 97-60502-002	2	35	159
		• RING, <98159> 97-60502-005	2	160	
- 9	4464C206M 7-2053-3	• COUPLING, (98625) 92-73005-016	2	35	
		• GASKET, <00307> 94-16002-014	2	35	159
- 10	8-23803-1	• DUCT ASSY, ANTI-ICING LH WELDED REPLACED BY SUITABLE SUB 8-23803-5	1	35	159
	8-23803-5	• DUCT ASSY, ANTI-ICING LH WELDED REPLACES SUITABLE SUB FOR 8-23803-1	1	160	
- 11		• TUBE ASSY, UPPER LH SEE FIG. 2.13-28 INDEX 23	RF		
- 12	8-23805	• ELBOW ASSY, WELDED REPLACED BY NOT INTCHG WITH 8-23805-1	1	35	159
	8-23805-1	• ELBOW ASSY, WELDED REPLACES NOT INTCHG WITH 8-23805	1	160	
- 13	NAS595-16 2894	• RING	2	35	159
		• RING, <98159> 97-60502-006	2	160	
- 14		• VALVE ASSY, AIR REGULATOR AND SHUTOFF	RF		
- 15	8-23801	• TUBE ASSY, FWD TAKE-OFF REPLACED BY SUITABLE SUB 8-23801-3	1	35	159
	8-23801-3	• TUBE ASSY, FWD TAKE-OFF REPLACES SUITABLE SUB FOR 8-23801	1	160	
- 16	8-23802-1	• TEE ASSY, FWD WELDED REPLACED BY SUITABLE SUB 8-23802-3	1	35	159
	8-23802-3	• TEE ASSY, FWD WELDED REPLACES SUITABLE SUB FOR 8-23802-1	1	160	
- 17	4185-10 2838	• RING, <98159> 97-60502-002	4	35	159
		• RING, <98159> 97-60502-005	4	160	
- 18	8-23806-1	• TUBE ASSY, FWD RH REPLACED BY NOT INTCHG WITH 8-23806-5	1	35	159
	8-23806-5	• TUBE ASSY, FWD RH REPLACES NOT INTCHG WITH 8-23806-1	1	160	
- 19	8-23808-1	• TUBE ASSY, FWD LH REPLACED BY NOT INTCHG WITH 8-23808-5	1	35	159
	8-23808-5	• TUBE ASSY, FWD LH REPLACES NOT INTCHG WITH 8-23808-1	1	160	
- 20		• TUBE ASSY, SEE FIG. 2.13-28 INDEX 2	RF		

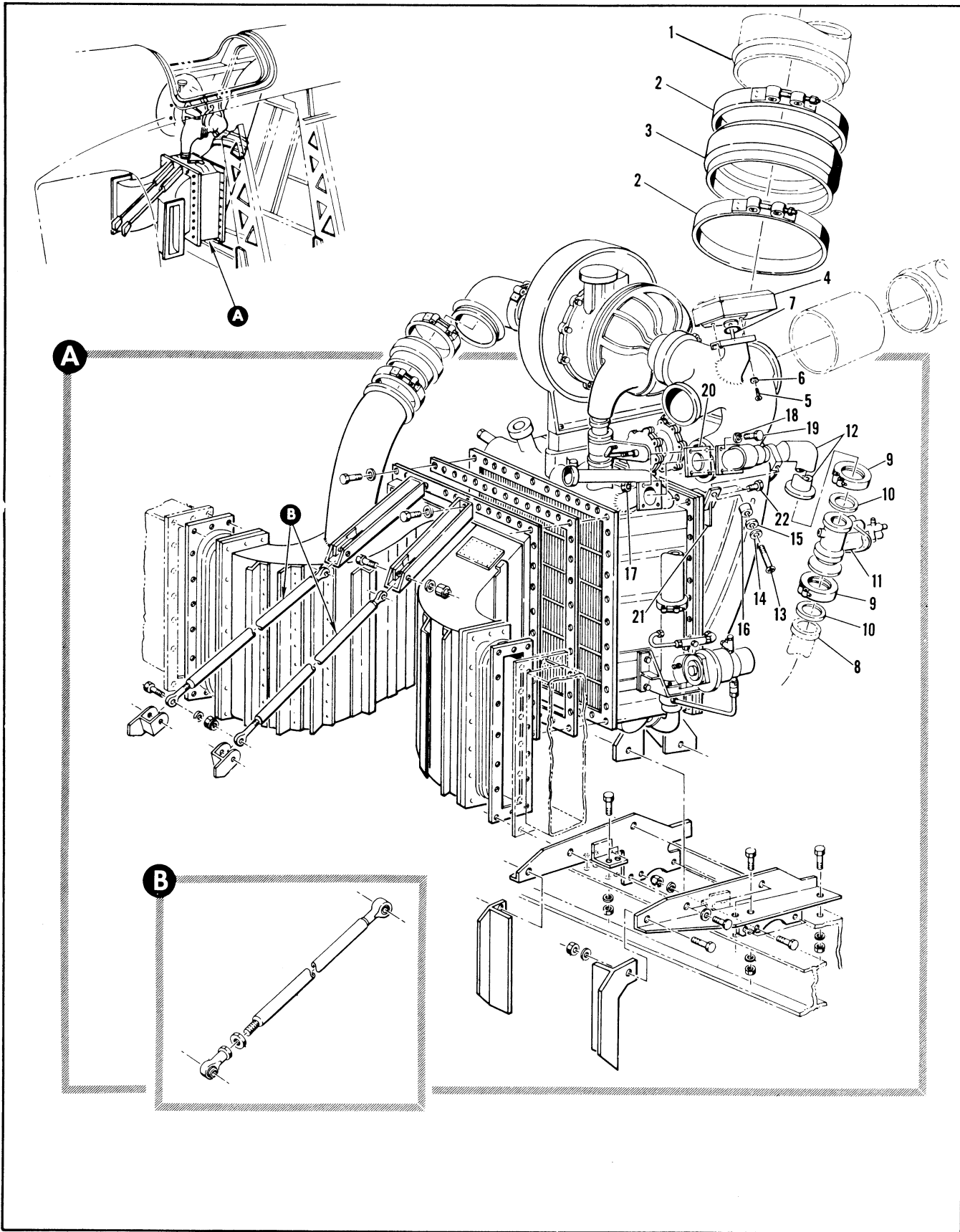


Figure 2.13-30. Refrigeration Unit and Ram Air Inlet Header Installation (Sheet 1 of 3)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-30	8-23130	• COUPLING INSTL, HEAT EXCHANGER EXHAUST EXIT DUCT FOR NHA SEE FIG. 2.1-1	RF	35	
-	8-23100-805	REFRIGERATION UNIT AND RAM AIR INLET HEADER INSTALLATION, MODIFIED BY 8-80310 FOR NHA SEE FIG. 2.3-8	RF	35	
	8-23100-801	HEADER INSTALLATION, RAM AIR INLET FOR NHA SEE FIG. 2.3-8	RF	35	43
	8-23100-809	HEADER INSTALLATION, RAM AIR INLET FOR NHA SEE FIG. 2.3-8	RF	44	
- 1		• DUCT ASSY, HEAT EXCHANGER SEE FIG. 2.13-1	RF		
- 2	365-62-862M	• CLAMP, <98625> 91-97003-007	2	35	
- 3	N12C-62-862M	• CLAMP	2	535	
- 4	NAS20-68-12	• COUPLING	1	35	
- 4	107808-8-1	• THERMOSTAT, LOW TEMPERATURE LIMITING (70210)	1		
		ATTACHING PARTS			
- 5	NAS221-12	• SCREW	3	35	
- 6	AN960PD10	• WASHER	3	35	
		----X----			
- 7	MS28775-218	• PACKING	1	35	
- 8		• DUCT ASSY, BLEED AIR SEE FIG. 2.13-23 INDEX 4	RF		
- 9	24502-200	• COUPLING, <98625> 92-73012-009	2	35	
- 10	24096-200C	• GASKET, <98625> 94-16005-002	2	35	
- 11	106638-3	• VALVE ASSY, BYPASS <70210> SPEC 8-09912-1 T.O. 15A2-2-20-183	1	35	
- 12	8-23997	• DUCT ASSY, EXCHANGER BYPASS WELDED	1	35	159
- 13	NAS221-11	• BOLT	1	35	
- 14	AN960C10	• WASHER	1	35	
- 15	AN960C516L	• WASHER	1	35	
- 16	NAS43HT3-14	• SPACER	1	35	
- 17	NAS679A4	• NUT	4	35	
- 18	AN960C416L	• WASHER	4	35	
- 19	AN4C7A	• BOLT	4	35	
		----X----			
- 20	A2375C	• GASKET, <97968> 94-16013-042	1	35	
- 21	8-23942	• BRACKET	1	35	
	8-23969	• BRACKET, ALT INTCHG WITH 8-23942	RF	35	
		ATTACHING PARTS			
- 22	AN3-5A	• BOLT	2	35	
		----X----			

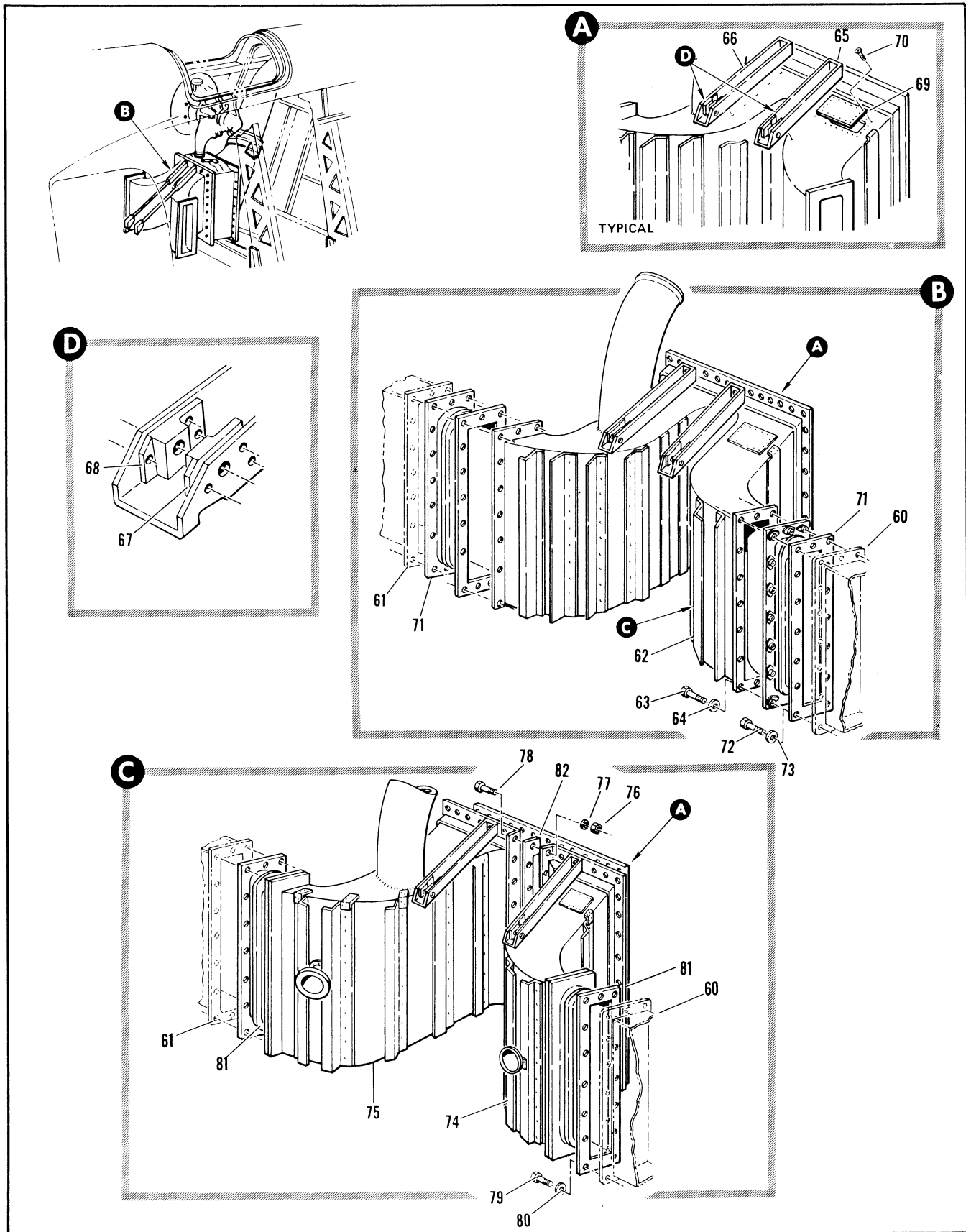


Figure 2.13-30. Refrigeration Unit and Ram Air Inlet Header Installation (Sheet 2 of 3)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION 1 2 3 4 5 6	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-30- 23	321-62-431M	• CLAMP, <98625> 91-97802-023	2	35	
- 24	AD297-1	• COUPLING, <92799> SPEC R-00297-1	1	35	
- 25		• COUPLING, SEE FIG. 2.13-22 INDEX 3	RF		
- 26		• DUCT ASSY, TRANSITION SEE FIG. 2.13-22 INDEX 24	RF		
- 27	8-23150-3	• REFRIGERATION UNIT ASSY, FOR BREAKDOWN SEE FIG. 2.13-31	1	35	240
	8-23150-805	• REFRIGERATION UNIT ASSY, FOR BREAKDOWN SEE FIG. 2.13-31 ATTACHING PARTS	1	241	
- 28	AN3-6A	• BOLT	2	35	
- 29	AN3-4A	• BOLT	47	35	43
	AN3-4A	• BOLT	46	44	
- 30	AN960D10L	• WASHER	49	35	43
	AN960D10L	• WASHER	48	44	
- 31	AN174A6	• BOLT	4	35	
- 32	AN960D416L	• WASHER	4	35	
		-----X-----			
- 33	8-23121	• GASKET	1	35	
- 34	8-23112	• STRUT ASSY, HEAT EXCHANGER STABILIZER ATTACHING PARTS	2	35	
- 35	NAS679A3	• NUT	4	35	
- 36	AN960D10L	• WASHER	4	35	
- 37	NAS464P3A17	• BOLT	2	35	
- 38	NAS464P3A10	• BOLT	2	35	
		-----X-----			
- 39	HRBM3	• BEARING, ROD END <97613> 90-60013-002	1	35	
- 40	AN316-4R	• NUT	1	35	
- 41	8-23112-9	• TUBE ASSY, RIVETED	1	35	
- 42	8-23113	• FITTING, STABILIZER LH	1	35	
- 43	8-23114	• FITTING, STABILIZER RH	1	35	
- 44	8-23100-11	• CLIP ATTACHING PARTS	2	35	
- 45	NAS679A3	• NUT	4	35	
- 46	99-51509-006	• WASHER	4	35	
- 47	NAS464P3A3	• BOLT	4	35	
		-----X-----			
- 48	8-23100-7	• TEE, LH	1	35	
- 49	8-23100-8	• TEE, RH ATTACHING PARTS	1	35	
- 50	NAS679A3	• NUT	2	35	
- 51	AN960D10L	• WASHER	2	35	
- 52	NAS464P3A3	• BOLT	2	35	
		-----X-----			
- 53	8-23100-9	• SUPPORT, LH	1	35	
- 54	8-23100-10	• SUPPLRT, RH ATTACHING PARTS	1	35	
- 55	NAS679A3	• NUT	12	35	
- 56	AN960D10L	• WASHER	8	35	
- 57	99-51509-006	• WASHER	4	35	
- 58	NAS464P3A3	• BOLT	10	35	
- 59	NAS464P3A15	• BOLT	2	35	
		-----X-----			

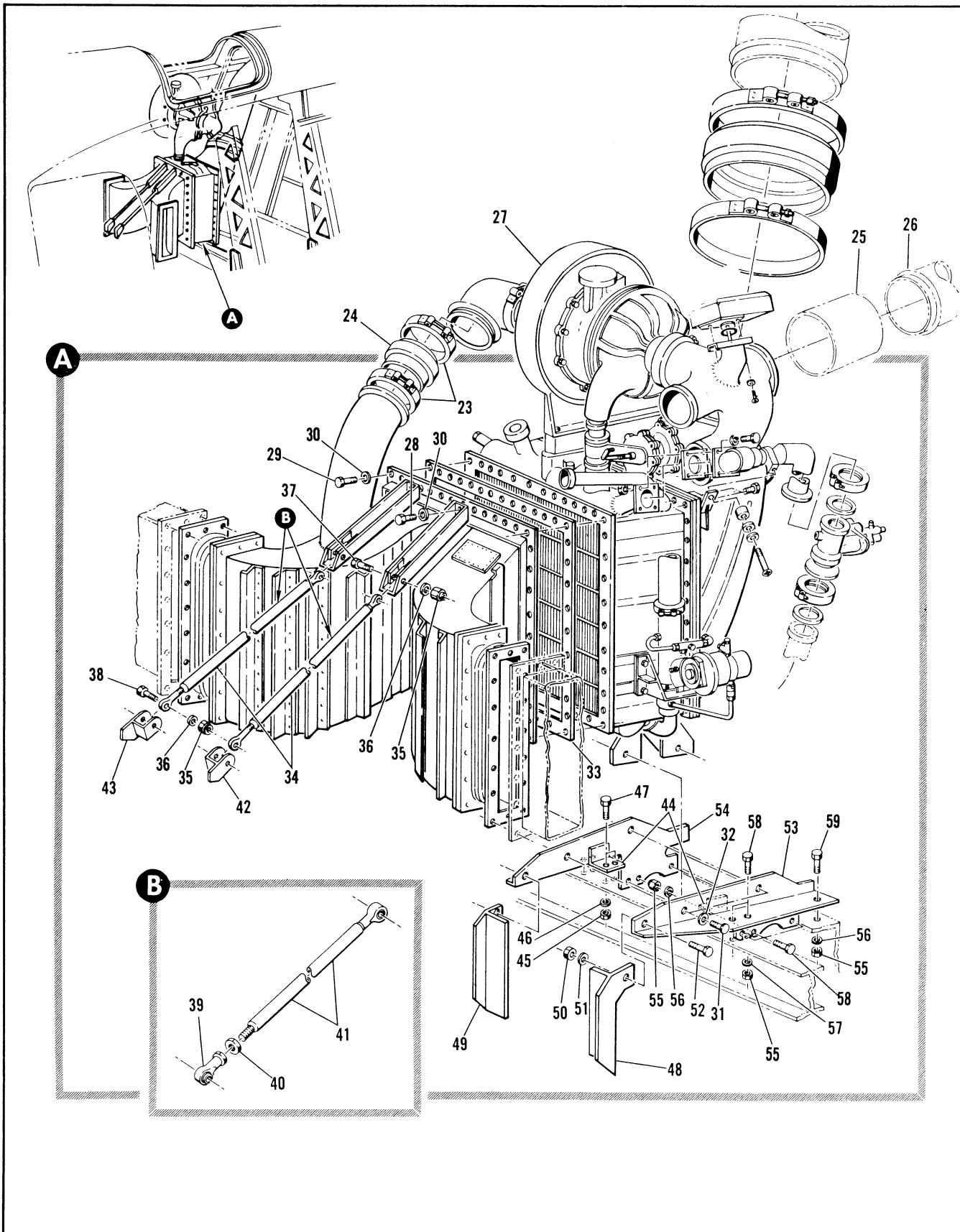


Figure 2.13-30. Refrigeration Unit and Ram Air Inlet Header Installation (Sheet 3 of 3)



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-30- 60			RF		
- 61		• DUCT ASSY, BOUNDARY BLEED FWD LH SEE FIG. 2.13-1 INDEX 97	RF		
- 62	8-23101-3	• DUCT ASSY, BOUNDARY BLEED FWD RH SEE FIG. 2.13-1 INDEX 97	1	35	43
- 63	AN3-3A	• HEADER ASSY, HEAT EXCHANGER INLET ATTACHING PARTS	36	35	43
- 64	AN960D10L	• BOLT	36	35	43
		• WASHER			
		-----X-----			
- 65	8-23108	• . CHANNEL ASSY, LH	1	35	43
- 66	8-23108-1	• . CHANNEL ASSY, RH	1	35	43
- 67	8-23107-7	• . . FITTING	1	35	43
- 68	8-23107-8	• . . FITTING	1	35	43
- 69	8-23101-119	• . DOOR, ACCFSS	1	35	43
		ATTACHING PARTS			
- 70	NAS221-8	• . SCREW	20	35	43
		-----X-----			
- 71	8-23100-17	• DUCT ASSY, HEAT EXCHANGER TO BOUNDARY BLEED RIVETED	2	35	43
		ATTACHING PARTS			
- 72	AN3-4A	• BOLT	32	35	43
- 73	AN960D10L	• WASHER	32	35	43
		-----X-----			
- 74	8-23101-801	• HEADER ASSY, HEAT EXCHANGER INLET LH	1	44	
- 75	8-23101-803	• HEADER ASSY, HEAT EXCHANGER INLET RH	1	44	
		ATTACHING PARTS			
- 76	NAS679A3	• NUT	11	44	
- 77	AN960D10L	• WASHER	11	44	
- 78	AN3C4A	• BOLT	11	44	
- 79	AN3-6A	• BOLT	32	44	
- 80	AN960D10L	• WASHER	32	44	
		-----X-----			
	8-23108	• . CHANNEL ASSY, LH	1	44	
	8-23108-1	• . CHANNEL ASSY, RH	1	44	
	8-23107-7	• . . FITTING	1	44	
	8-23107-8	• . . FITTING	1	44	
	8-23101-119	• . DOOR, LH	1	44	
		ATTACHING PARTS			
	NAS221-8	• . SCREW, LH	20	44	
		-----X-----			
- 81	3-4360	• . DUCT, FLEX <70628> SPEC 8-02453-1	1	44	
	8-23100-17	• . DUCT ASSY, ALT INTCHG WITH 3-4360 FOR REPLACEMENT USE 3-4360	RF	A	
- 82	8-23124	• GASKET	1	44	
		A AIRPLANES #283, 287, 301 AND ON			

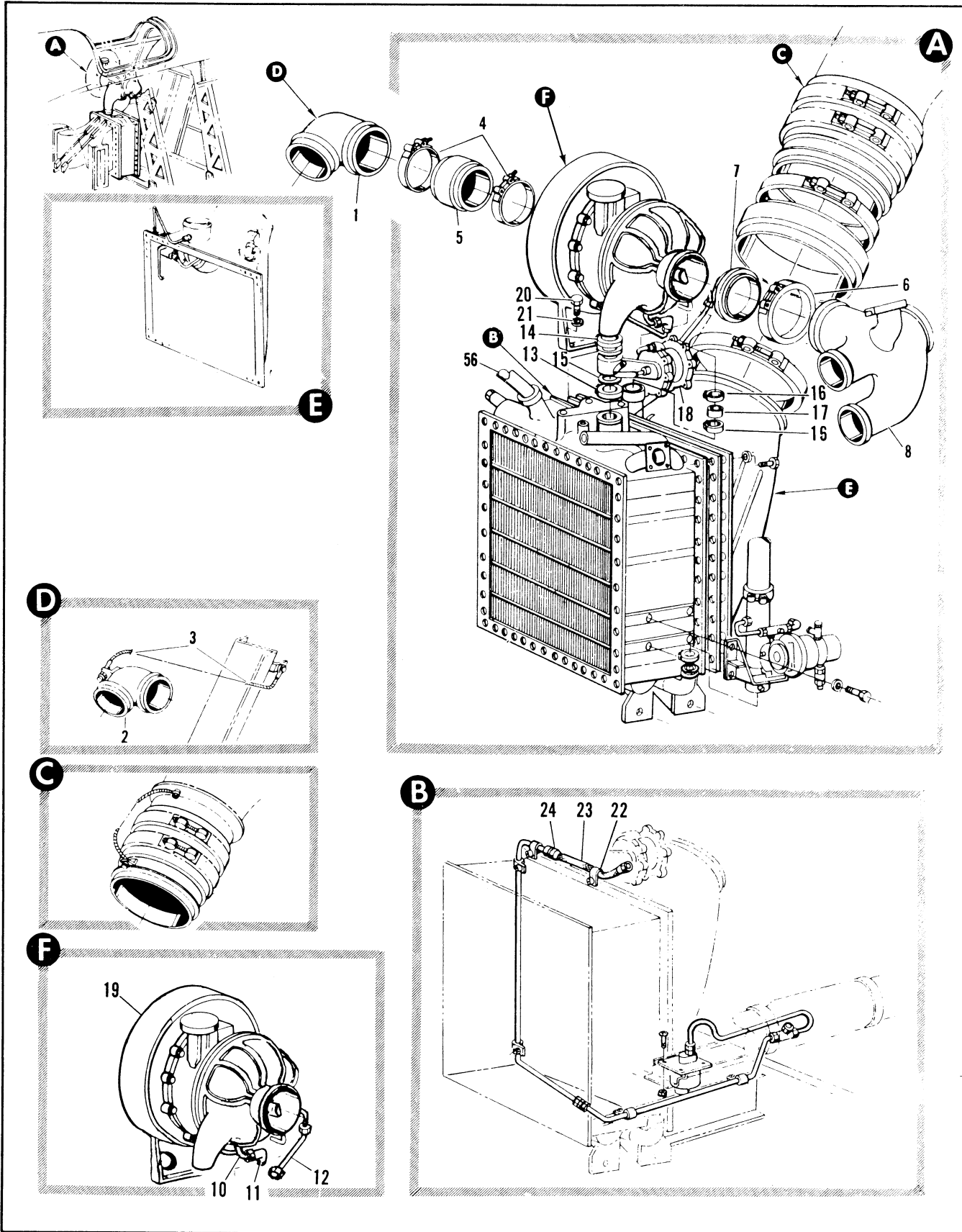


Figure 2.13-31. Refrigeration Unit Assembly (Sheet 1 of 3)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-31	8-23150-3	REFRIGERATION UNIT ASSEMBLY, FOR NHA SEE FIG. 2.13-30	RF	35	240
	8-23150-805	REFRIGERATION UNIT ASSEMBLY MODIFIED BY 8-21892 FOR NHA SEE FIG. 2.13-30	RF	241	
- 1	8-23120	• DUCT ASSY, COMPRESSION INLET WELDED REPLACED BY SUITABLE SUB 8-23120-1	1	35	38
- 2	8-23120-1	• DUCT ASSY, COMPRESSION INLET WELDED REPLACES SUITABLE SUB FOR 8-23120	10	39	
- 3	MS25083-2BB5	• JUMPER ATTACHING PARTS	1	39	
	AN345C10	• NUT	1	39	
	AN960C10L	• WASHER	1	39	
	AN935-10L	• WASHER	1	39	
	AN960D10L	• WASHER	1	39	
	AN526-1032R12	• SCREW	1	39	
	AN3-3A	• BOLT	1	39	
		----X----			
- 4	50230075-458M	• CLAMP, <98625> 91-97802-040	2	35	
- 5	AD297-5	• COUPLING, <92799> SPEC 8-00297-5	1	35	
- 6	15355-4.310 18276-350	• COUPLING, <92799> SPEC 8-00297-5 • COUPLING, <92799> REPLACES SUITABLE SUB FOR 15355-4.310	1	35	
- 7	7-2253-4	• GASKET, <00307> 94-16002-002	1	35	
- 8	8-23106-801	• DUCT ASSY, REFRIGERATION TURBINE OUTLET WELDED	1	160	
- 9	107097	*1 • TUBE ASSEMBLY REFRIGERATION UNIT (96193)	1	35	
- 10	107096	*1 • TUBE ASSEMBLY REFRIGERATION UNIT OIL PRESSURIZATION LINE (96193)	1	35	
- 11	AN837-4D	• ELBOW (88044)	1	35	
- 12	8-23150-13	• TUBE ASSEMBLY	1	35	
- 13	15095-2.810	• COUPLING, <98625> 92-73003-014	1	35	
- 14	15096-3.060	• COUPLING, <98625> 92-73003-013	1	35	
- 15	SS3805A26	• PACKING, <96193> 96-58515-001	2	35	
- 16	50230075-308M	• CLAMP, <98625> 91-97802-039	2	35	
- 17	AD390-3	• COUPLING, <92799> SPEC 8-00939-3	1	35	
- 18	104584-2	• VALVE ASSY, PRESSURE REGULATOR AND SHUTOFF, MODEL CV2560-3 (96193) ALTERED FROM 102119, T.O. 15A2-7-6-4	1	35	
- 19	107037-1	• TURBINE AND COMPRESSOR ASSEMBLY (96913) REPLACES SUITABLE SUB FOR 26003 ATTACHING PARTS	1	35	
- 20	AN4H5A	• BOLT	3	35	
- 21	AN960C416L	• WASHER	3	35	
		----X----			
- 22	MS21919D65	• CLAMP ATTACHING PARTS	1	278	
	NAS43-3-B	• SPACER	1	278	
		----X----			
- 23	R3800-4-0120	• HOSE ASSY, TETRAFLUORETHYLENE <50599> 94-80505-030	1	278	
- 24	AN815-4	• UNION	1	278	
		*1 USED WITH TURBINE, PART NO. 107037			

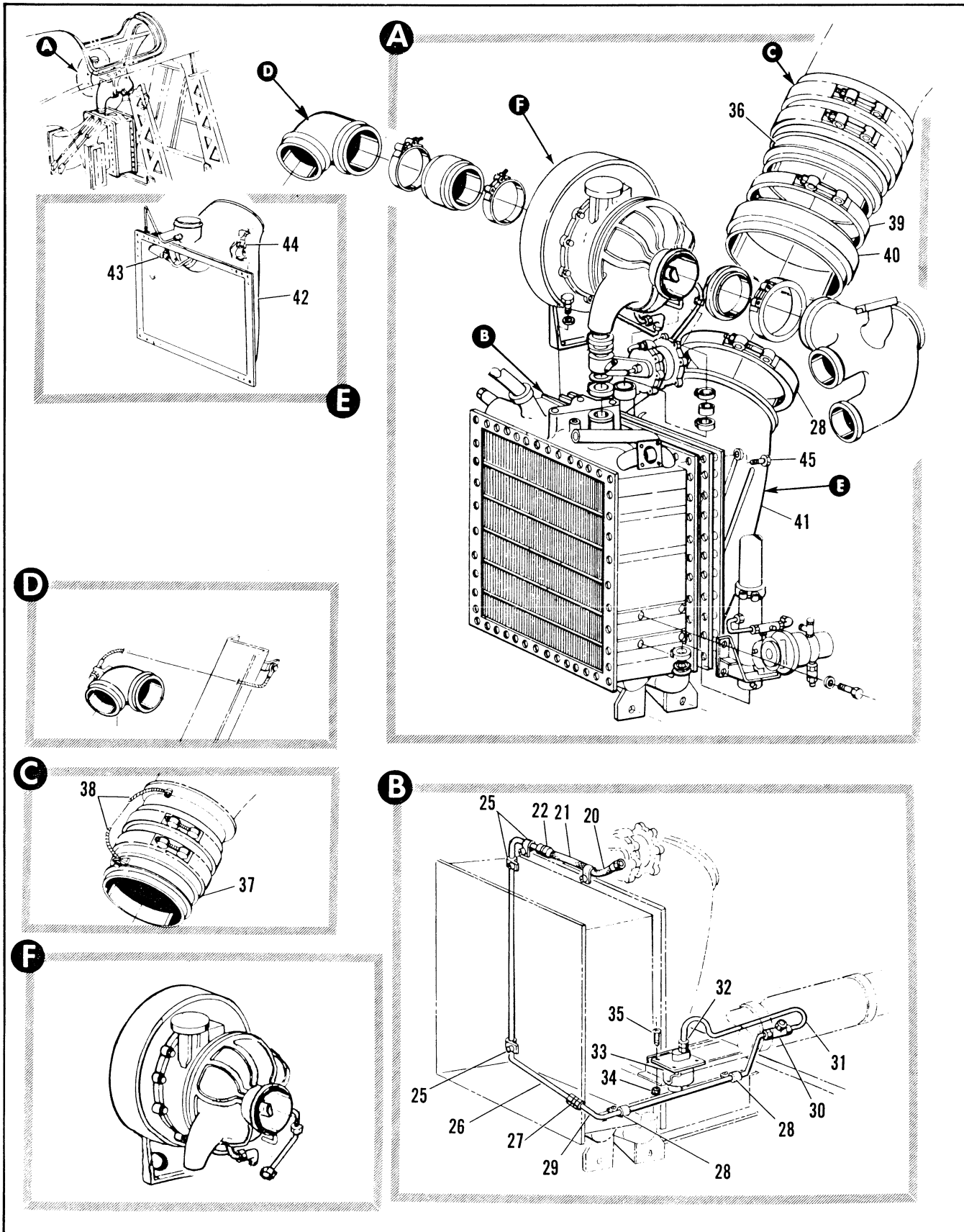


Figure 2.13-31. Refrigeration Unit Assembly (Sheet 2 of 3)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-31- 25	MS21919DG4	• CLAMP ATTACHING PARTS	3	278	
	AN3-7A	• BOLT	3	278	
	NAS43-3-24	• SPACER ----X----	3	278	
- 26	8-21892-29	• TUBE ASSEMBLY	1	278	
- 27	MS21902-4	• UNION	1	278	
- 28	MS21919DG4	• CLAMP ATTACHING PARTS	2	278	
	NAS1291-3	• NUT	2	278	
	NAS221-6	• SCREW ----X----	2	278	
- 29	8-21892-11	• TUBE ASSEMBLY	1	278	
- 30	MS21909-4	• TEE	1	278	
	AN924-4	• NUT	1	278	
	AN6295-4	• GASKET	1	278	
- 31	8-21892-7	• TUBE ASSEMBLY	1	278	
- 32	MS21902-4	• UNION	1	278	
	AN6290-4	• GASKET	1	278	
- 33	40063	• SWITCH, PRESSURE SENSING BLEED AIR EJECTOR SYSTEM <98505> SPEC 8-02986-5 ATTACHING PARTS	1	278	
- 34	NAS1291-3	• NUT	4	278	
- 35	NAS221-6	• SCREW ----X----	4	278	
- 36	8-23102	• DUCT ASSY, HEAT EXCHANGER EXHAUST WELDED	1	35	38
- 37	8-23102-3	• DUCT ASSY, HEAT EXCHANGER EXHAUST WELDED	1	39	
- 38	MS25083-2BB7	• JUMPER ATTACHING PARTS	1	39	
	AN345C10	• NUT	2	39	
	AN960C10L	• WASHER	2	39	
	AN935-10L	• WASHER	2	39	
	AN960010L	• WASHER	2	39	
	AN526-1032R12	• SCREW ----X----	2	39	
- 39	365-62-862M	• CLAMP, (98625) 91-97803-007	20	35	
	N120-62-862M	• CLAMP	20	35	
- 40	NAS520-62-12	• COUPLING	1	35	
- 41	8-23241-1	• AIR EJECTOR ASSY, ALTERED FROM 14002-3	1	278	303
	104580	AIR EJECTOR ASSY, MODEL EJ2-1 ALTERED FROM 8- 23241-1 IDENTIFIED AS 64J34059-3 T.O. 15A13-2-3	1		
	104581	• AIR EJECTOR ASSY, MODEL EJ2-2 ALTERED FROM 8- 23241-3 IDENTIFIED AS 64J34059-1 T.O. 15A13-2-3	1		
- 42	105429	• AIR EJECTOR (96193)	1		
- 43	104610	• ACTUATOR ASSEMBLY, EJECTOR VALVE (96193)	1	35	
- 44	104610	• VALVE ASSEMBLY, AIR EJECTOR NOZZLE (96193) ATTACHING PARTS	1	35	
- 45	AN3-4A	• BOLT	49	35	277
	AN3-4A	• BOLT	45	278	

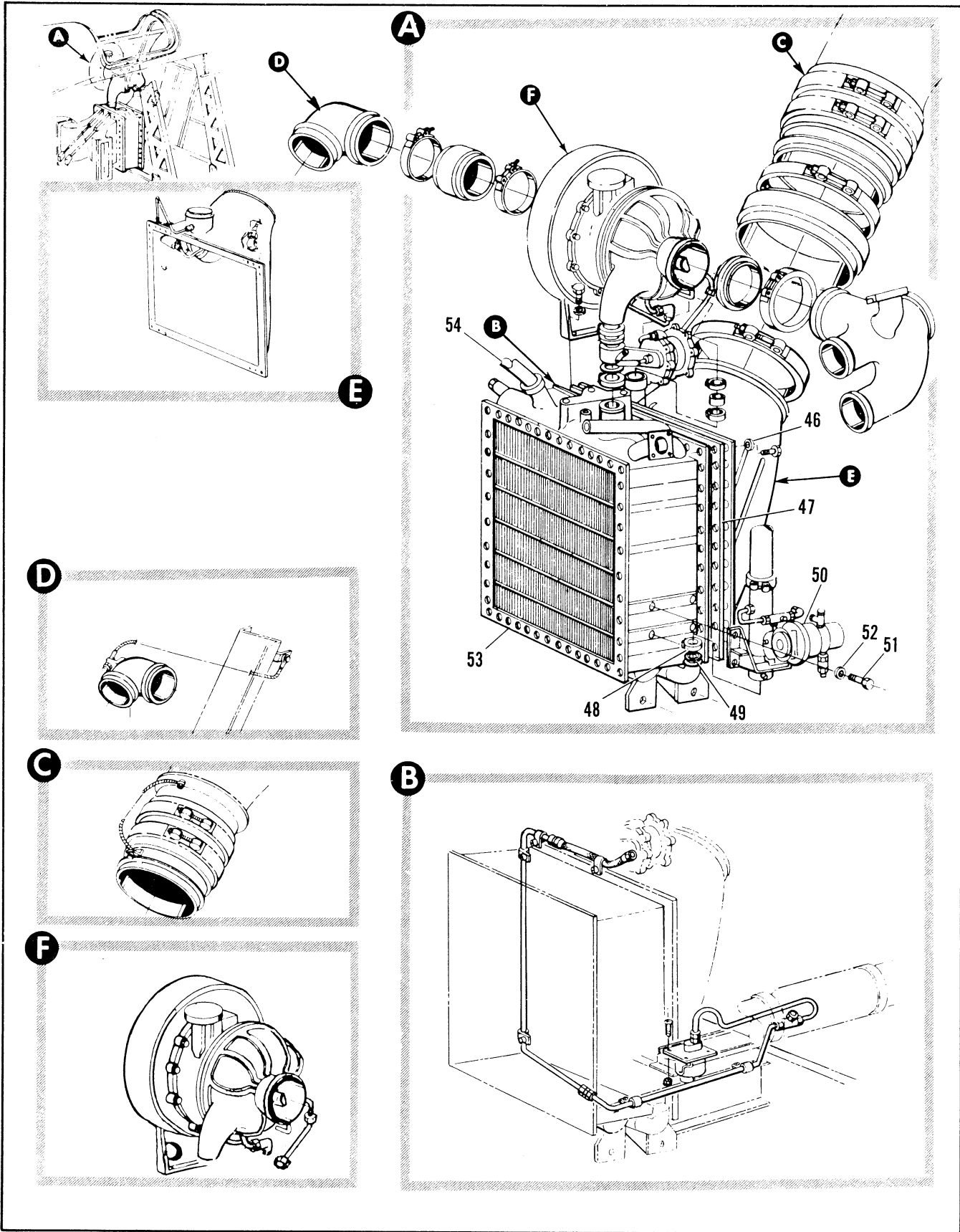


Figure 2.13-31. Refrigeration Unit Assembly (Sheet 3 of 3)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
2.13-31- 46	AN960D10L	<ul style="list-style-type: none"> <li>• WASHER</li> <li>• WASHER</li> <li>• GASKET</li> <li>• COUPLING, (98625) 92-73035-016</li> <li>• GASKET, (00307) 94-16002-C14</li> <li>• REGULATOR ASSY, DUCT LIP ANTI-ICING AIR PRESSURE SHUTOFF AND DIFFERENTIAL (70210) SPEC 8-02495-3 T.O. 15E2-4-6-33 ATTACHING PARTS</li> <li>• BOLT</li> <li>• WASHER</li> <li>-----X-----</li> <li>• HEAT EXCHANGER ASSY, AIR-TO AIR (96193)</li> <li>• HOSE ASSY, HEAT EXCHANGER OUTLET SEE FIG. 2.9-2 INDEX 75</li> </ul>	49	35	277
- 47	AN960D10L		45	278	
- 48	8-23121		1	35	
- 49	4464-206M		1	35	
- 50	7-2053-3		1	35	
	108322-26E-1-3		1	35	
- 51	AN3-4A		4	35	
- 52	AN960D10L		4	35	
- 53	109717		1	35	
- 54			RF		

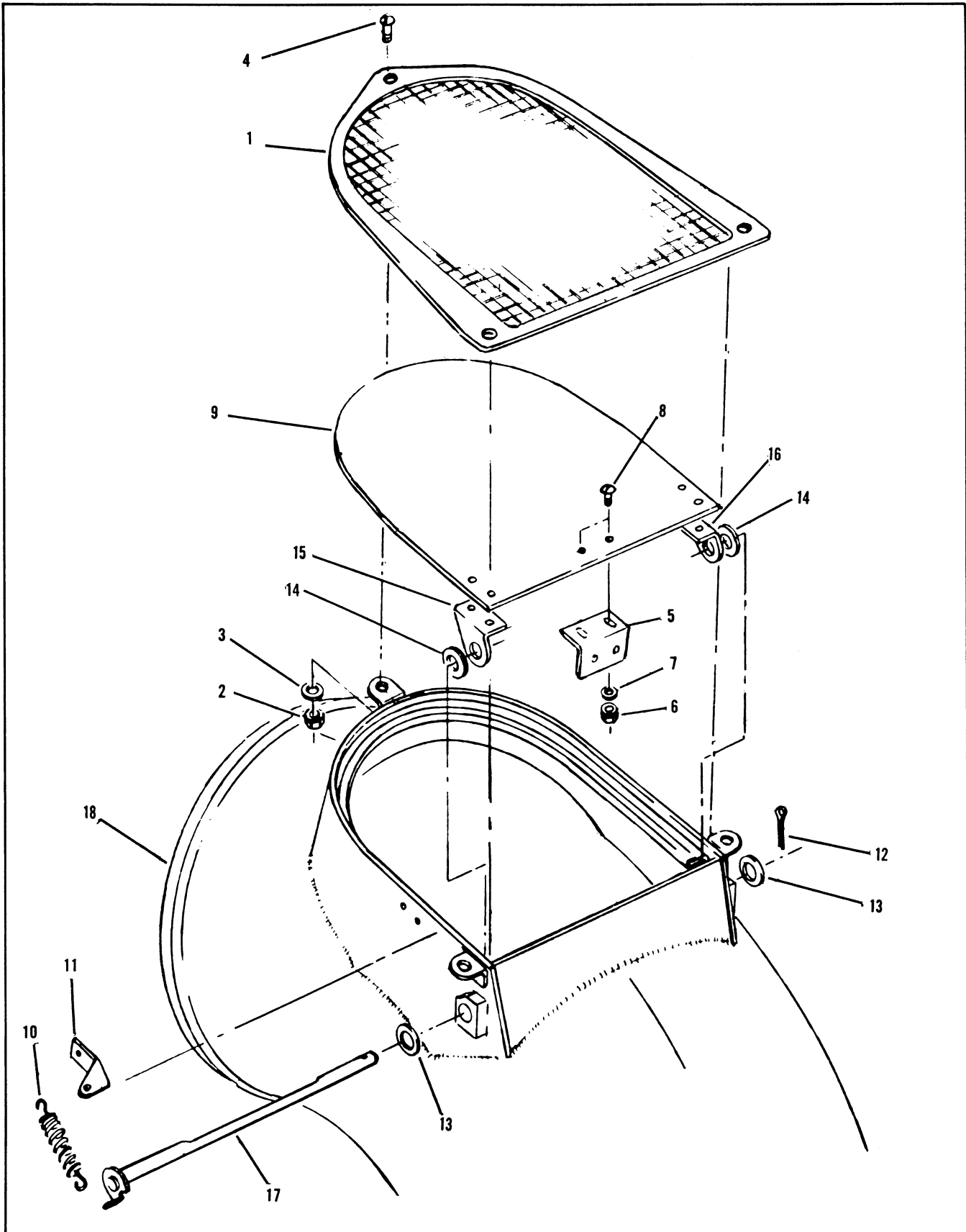


Figure 2.13-32. Valve Assembly Compressor Inlet Air Diverter



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-32	63E35687-1	VALVE ASSY, COMPRESSOR INLET AIR DIVERter FOR NHA SEE FIG. 2.13-31 INDEX 2	RF		
- 1	63C35685-1	• SCREEN ASSY	1		
		ATTACHING PARTS			
- 2	MS21042L3	• NUT	3		
- 3	AN960D10	• WASHER	3		
- 4	AN520-1CRB	• SCREW	3		
		-----X-----			
- 5	63C35678-1	• BRACKET	1		
		ATTACHING PARTS			
- 6	MS21042L3	• NUT	2		
- 7	AN960D10	• WASHER	2		
- 8	AN520-1CRB	• SCREW	2		
		-----X-----			
- 9	63C35682-1	• PLATE	1		
- 10	MS24586C62	• SPRING	1		
- 11	63C35680-1	• BRACKET	1		
- 12	MS24665-299	• PIN, COTTER	1		
- 13	AN960C516	• WASHER	1		
- 14	91-26003-005	• BUSHING	1		
- 15	63C35679-1	BRACKET	1		
- 16	63C35679-2	• BRACKET	1		
- 17	63C35681-1	• SHAFT ASSY, WELDED	1		
- 18	63E35675-1	• HOUSING ASSY, WELDED	1		

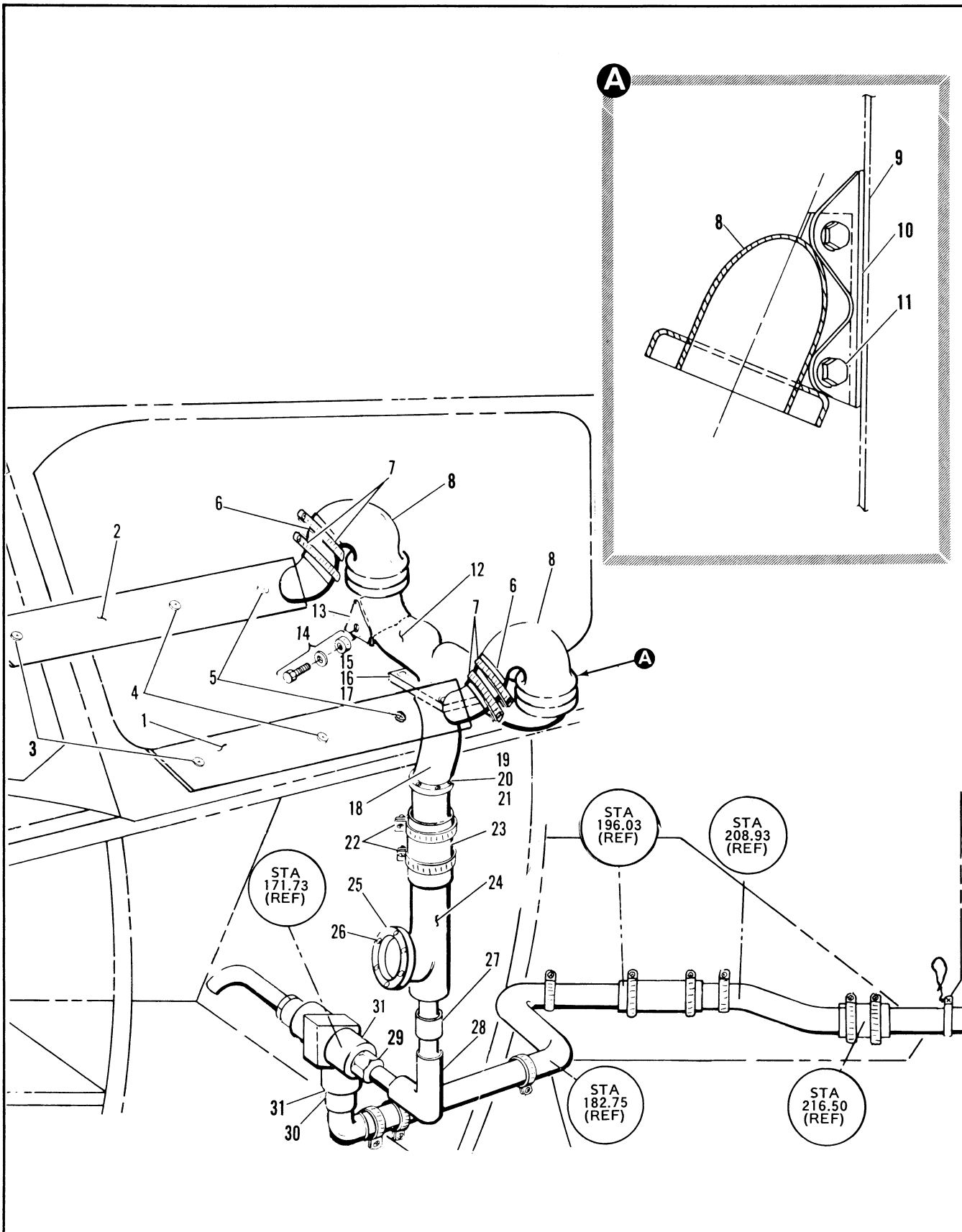


Figure 2.13-33. Valve, Canopy Defog-Pressure Regulator (Sheet 1 of 4)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-33	7037267-10	CANOPY HOT AIR DEFOG SYSTEM INSTALLATION STATION 126.38 TO 287.50 (98750)	REF	35	
	7037407-10	. CANOPY DUCT INSTALLATION L/H STA 126.38 TO 175.12 (98750)	REF	35	
	7037407-20	. CANOPY DUCT INSTALLATION. R/H STA 126.38 TO 175.12 (98750)	REF	35	
- 1	7036860-10	. . DUCT ASSY L/H (98750)	1		
- 2	7036860-20	. . DUCT ASSY R/H (98750)	1		
- 3	MS24694-60	. . SCREW (96906)	2		
	99-51507-003	. . WASHER (14170)	2		
- 4	MS24694-57	. . SCREW (96906)	2		
	99-51507-003	. . WASHER (14170)	2		
- 5	AN509-10R16	. . SCREW (88044)	2		
	99-51507-003	. . WASHER (14170)	2		
- 6	NAS520-14-12	. . COUPLING (80205)	2		
- 7	AN737TW66	. . CLAMP (88044)	4		
- 8	7037952-10	. . DUCT ASSY L/H (98750)	1		
	7037052-20	. . DUCT ASSY R/H (98750)	1		
- 9	8-74801-11	. . PANEL, CANOPY (14170)	REF		
- 10	7140017-01	. . CLIP L/H (98750)	1		
	7140017-02	. . CLIP R/H (98750)	1		
		ATTACHING PARTS			
- 11	AN3-4A	. . BOLT (88044)	4		
	AN960-10L	. . WASHER (88044)	4		
	MS2104AN3	. . NUT (96906)	4		
		-----X-----			
- 12	7036878-10	. MANIFOLD (98750)	1		
- 13	7036876-10	. BRACKET ASSY (98750)	2		
		ATTACHING PARTS			
- 14	AN3-3A	. BOLT (88044)	4		
	AN960-10L	. WASHER (88044)	4		
	MS21044N3	. NUT (96906)	4		
		-----X-----			
- 15	7036881-01	. FILLER (98750)	1		
- 16	7036880-01	. DOUBLER (98750)	1		
- 17	AN3-4A	. BOLT (88044)	4		
	AN960-10L	. WASHER (88044)	4		
- 18	703600-10	. DUCT ASSY (98750)	1		
- 19	7037016-01	. DOUBLER (98750)	1		
- 20	7036918-01	. SEAL (98750)	1		
- 21	7036918-03	. SEAL (98750)	1		
- 22	AN737TW74	. CLAMP (88044)	1		
- 23	NAS720-16-12	. COUPLING (80205)	2		
- 24	8-23938	. DUCT ASSY (14170)	1		
- 25	7036874-01	. FILLER (98750)	1		
- 26	7036950-10	. SCREW (98750)	1		
	AN3-4A	. BOLT (88044)	6		
	AN960-10L	. WASHER (88044)	6		
- 27	NAS595-12E	. RING (80205)	2		
- 28	70369668-10	. TUBE ASSY (98750)	1		
- 29	7037160-01	. GASKET (98750)	1		
- 30	7037153-01	. DOUBLER (98750)	1	35	
- 31	7037154-01	. FILLER (98750)	1		

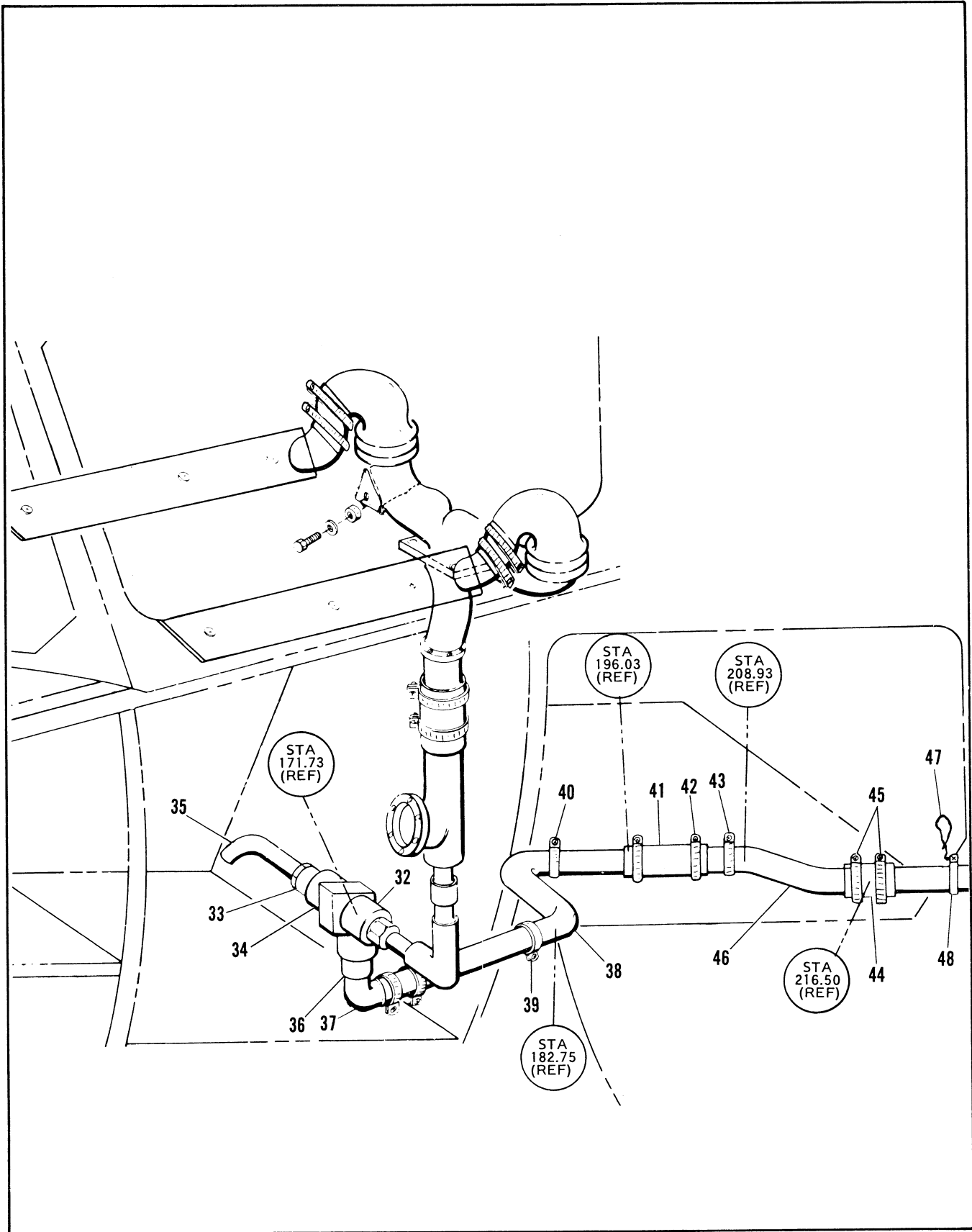


Figure 2.13-33. Valve, Canopy Defog-Pressure Regulator (Sheet 2 of 4)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-33- 32	5055	• REGULATOR ATTACHING PARTS	1		
	AN4-5A	• BOLT	2		
	AN960-416L	• WASHER	2		
	NAS679C4M	• NUT	2		
		----X----			
- 33	7037032-10	• TUBE ASSY	1		
- 34	MS21906-4D	• UNION	1		
	MS28778-4	• PACKING	1		
- 35	MS21908-4D	• ELBOW	1		
	AN924-4D	• NUT	1		
	AN960PD716	• WASHER	1		
- 36	AN924-12S	• NUT	1		
	MS29512-12	• PACKING	1		
- 37	MS24374-12S	• ELBOW	1		
- 38	7036967-10	• TUBE ASSEMBLY	1		
- 39	MS21919H20	• CLAMP	1		
		ATTACHING PARTS			
	AN3-3A	• BOLT	1		
	AN960-10L	• WASHER	1		
	MS21044N3	• NUT	1		
		----X----			
- 40	MS21919H20	• CLAMP	1		
		ATTACHING PARTS			
	AN3-4A	• BOLT	1		
		----X----			
- 41	NAS595-12E	• RING	1		
- 42	7037257-01	• COVER	1		
		ATTACHING PARTS			
	AN737TW44	• CLAMP	2		
		----X----			
- 43	MS21919H24	• CLAMP	1		
		ATTACHING PARTS			
	AN3-4A	• BOLT	1		
	AN960-10L	• WASHER	1		
	MS21044N3	• NUT	1		
		----X----			
- 44	7037257-05	• COVER	2		
		ATTACHING PARTS			

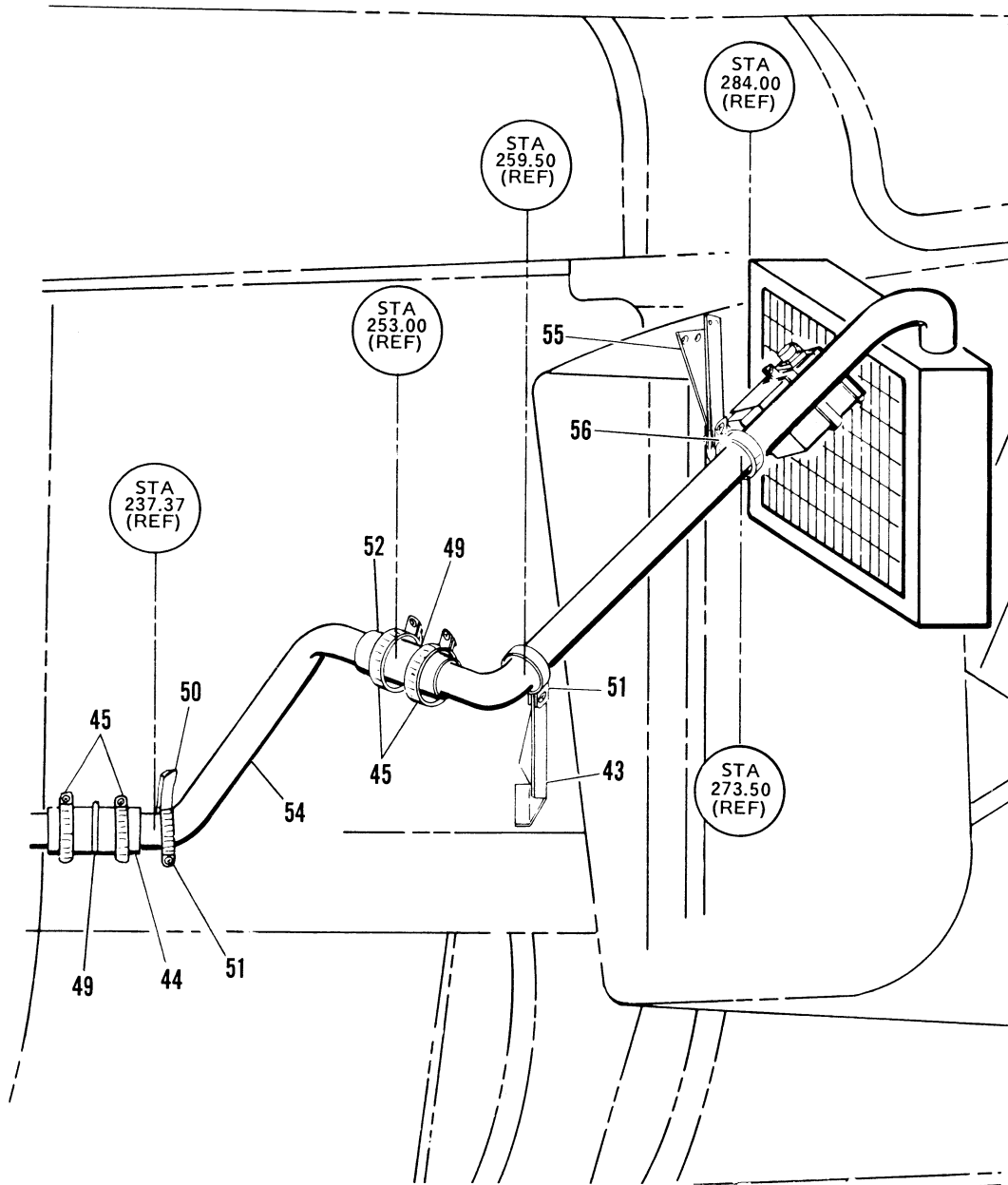


Figure 2.13-33. Valve, Canopy Defog-Pressure Regulator (Sheet 3 of 4)

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-33- 45	AN737TW58	• CLAMP -----X-----	6		
- 46	7036966-10	• TUBE ASSY	1		
- 47	7140247-10	• CLIP ASSY	1		
- 48	MS21919H24	• CLAMP ATTACHING PARTS	1		
	AN3-4 A	• BOLT	1		
	AN960-10L	• WASHER -----X-----	1		
- 49	NAS595-16E	• RING	2		
- 50	7037002-10	• BRACKET ATTACHING PARTS	1		
	AN3-3A	• BOLT	4		
	AN960-10L	• WASHER	4		
	MS21044N3	• NUT -----X-----	4		
- 51	MS21919H24	• CLAMP ATTACHING PARTS	2		
	MS35207-262	• SCREW	2		
	AN960-10L	• WASHER -----X-----	2		
- 52	7037257D3	COVER			
- 53	7037004-10	• BRACKET ATTACHING PARTS	1		
	MS35207-263	• SCREW	2		
	AN960-10L	• WASHER -----X-----	2		
- 54	7036964-10	• TUBE ASSY	1		
- 55	7037003-01	• BRACKET ATTACHING PARTS	1		
	AN3-5A	• BOLT	2		
	AN960-10L	• WASHER	4		
	NAS679C3	• NUT -----X-----	2		

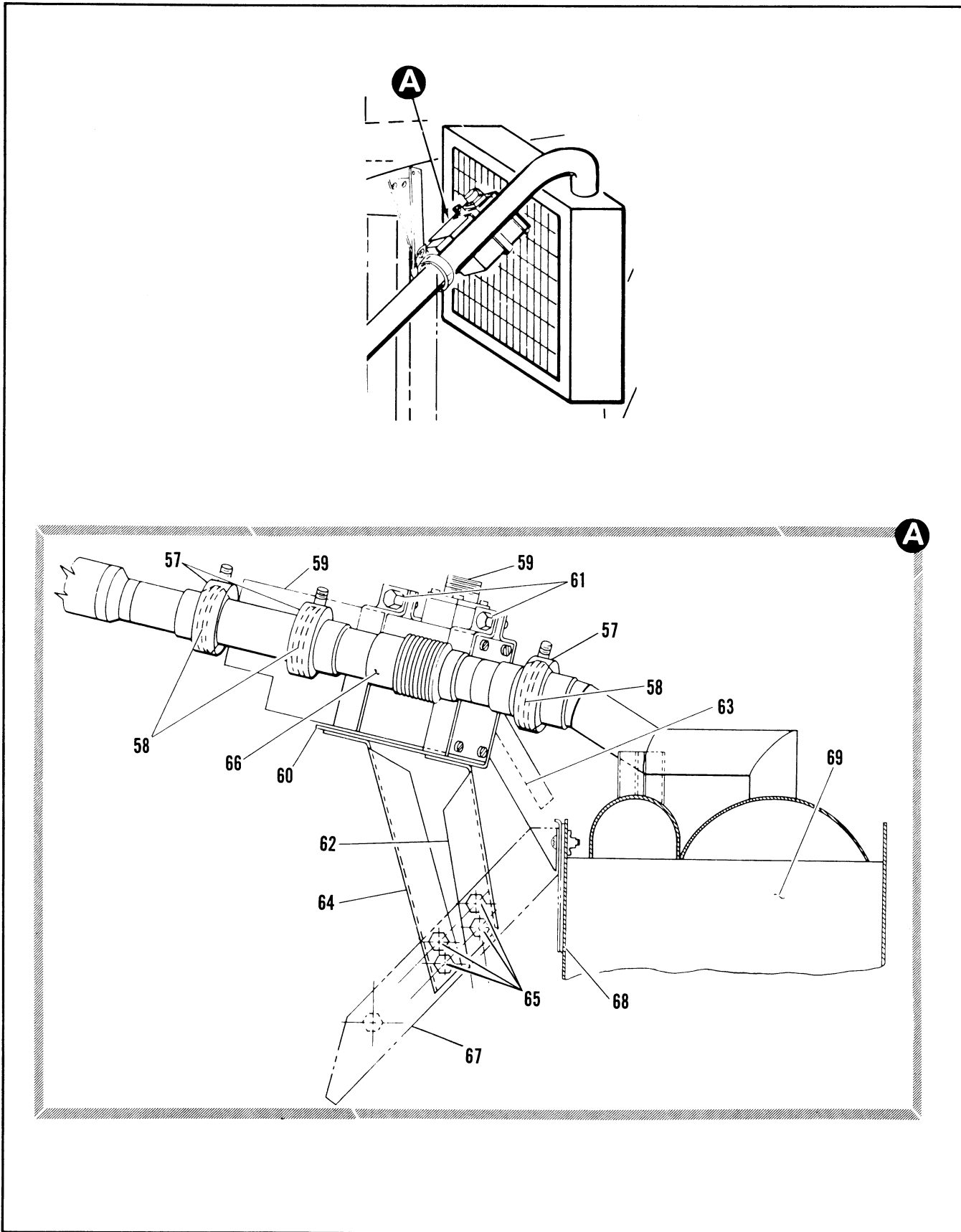


Figure 2.13-33. Valve, Canopy Defog-Pressure Regulator (Sheet 4 of 4)



FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	UNITS PER ASSY.	USABLE ON CODE	
				FROM	TO
		1 2 3 4 5 6			
2.13-33- 56	MS21919H24	• CLAMP ATTACHING PARTS	1		
	AN3-3A	• BOLT	1		
	AN960-10L	• WASHER	1		
	NAS679C3	• NUT	1		
		-----X-----			
- 57	4261C170-M	• VALVE INSTALLATION, SHUTOFF	1		
- 58	12067-100S	• CLAMP	3		
- 59	35-121A	• GASKET	3		
- 60	7036900-01	• VALVE	1		
- 61	7036887-10	• BRACKET, VALVE SUPPORT	1		
- 62	7036897-01	• CLAMP ASSY	2		
- 63	7036859-01	• BRACKET	1		
- 64	7036896-01	• BRACKET	1		
		ATTACHING PARTS			
- 65	AN3-4A	• BOLT	4		
	AN960-10L	• WASHER	4		
	MS21044N3	• NUT	4		
		-----X-----			
- 66	7036890-10	• TUBE ASSY	1		
- 67	8-23108	• CHANNEL ASSY L/H SEE FIG. 2.13-30 INDEX 65	REF		
- 68	8-23101	• HEATER ASSY L/H SEE FIG. 2.13-30 INDEX 75	REF		
- 69		• HEAT EXCHANGER SEE FIG. 2.13-27 INDEX 53	REF		

