TO: ALL HOLDERS OF FAT LIP NOSE COWL ASSEMBLY OVERHAUL MANUAL, 71-13-02

REVISION NO. 19, DATED NOV 1/02

HIGHLIGHTS

DESCRIPTION OF CHANGE	TOPICS AFFECTED												
	D & O	D / Assy	Cleaning	Insp/Chk	Repair	Assy	F/C	Test	T/Shooting	S/Tools	Storage	IPL	L/Overhaul
Updated Fig. 2, Item 220 part number and vendor code												X	

NOSE COWL ASSEMBLY, FAT LIP

71-13-02

BOEING P/N 65-85378-1, -2, -101, -102, -281 thru -284, -311 thru -316, -359, -360, -363, -364, -383 thru -388, -391 thru -398
65-86025-9, -10

AIRLINE P/N

THE FOLLOWING DIRECTIVES APPLY TO THIS SUBJECT:

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVES	DATE DIRECTIVE INCORPORATED INTO TEXT
30-1010R2		PRR 32771	Jan 5/79
71-1045		PRR 32731-1	Jan 5/79
71-1046		PRR 32731-2	Jan 5/79
		PRR 32932	Jul 5/79
		PRR 33048	Jan 5/82
		PRR 33175	Mar 5/84
		PRR 33519	Jun 5/84
		PRR 33800-6	Dec 5/85
		MC 3461-45K	Dec 5/85
71-1140			Dec 5/86
71-1256		MC 5460MK3003	Jun 5/91
71-1221		MC 5460MK3003	Dec 5/91
71-1253		MC 5460MK3003	Dec 5/91
71-1131		MC 3461-38K	Mar 5/92
71-1131		MC 3461-39K	Mar 5/92
71-1111			Dec 5/93

LIST OF EFFECTIVE PAGES

* Indicates pages revised, added or deleted in latest revision
F Indicates foldout pages - print one side only

	PAGE	DATE	PAGE	DATE	PAGE	DATE
	71-13-02					
	T-1	Dec 5/93				
	T-2	BLANK				
*	LEP-1	Nov 1/02				
	LEP-2	BLANK				
	T/C-1	Jan 5/82				
	T/C-2	BLANK				
	1	Jul 5/81				
	2	Jul 1/01				
	2A	Jul 1/01				
	2B	Jul 1/01				
	2C	Jul 1/01				
	2D	BLANK				
	3	Jan 5/82				
	4	Jul 1/01				
	4A	Jun 5/84				
	4B	BLANK				
	5	Mar 1/99				
	6	Jul 5/77				
	7	Jul 5/77				
	8	BLANK				
	8A	Jul 5/80				
	8B	Jul 5/80				
	9	Dec 5/93				
	10	Mar 5/92				
*	11	Nov 1/02				
	12	Mar 5/92				
	13	Mar 5/92				
	14	Mar 5/92				
	15	Mar 5/92				
*	16	Nov 1/02				

TABLE OF CONTENTS

*[1] Special instructions not required. Use standard industry practices.

NOSE COWL ASSY, FAT LIP

1. Description and Operation (Fig. 2)

   A. The nose cowl consists of two hold open rod assemblies, anti-icing duct, two latch brackets, anti-icing mixing chamber, porous metal or polyimide inlet liner panels, and vortex dissipator boom.

   B. When installed, the vortex boom discharges engine bleed air through nozzles forward and below the cowl inlet to prevent foreign object ingestion. Engine bleed air is discharged into the mixing chamber, mixed with ambient air, and distributed around the forward edge of the cowl inlet through holes in the anti-icing duct. The metal or acoustic panels aid in dissipating engine inlet noise.

   C. Leading Particulars (Approximate)

      Length -- 41 inches
      Width -- 50 inches
      Height -- 57 inches
      Weight -- 160 pounds

2. Disassembly

   A. Basic structure of nose cowl is joined by rivets or lockbolts. Disassemble using standard industry practices to make repairs or replace parts.

   B. Remove lip skin (515) only if required to replace it due to hail or other damage, or to repair or replace TAI duct assy (400, 405) or structure.

      (1) If lip skin is to be reinstalled, index mark with tape or other means to aid in alignment.

      CAUTION: PREVENT METALLIC SHIPS OR DEBRIS CAUSED BY DRILLING TO CONTACT OR BECOME INBEDDED IN THE ACOUSTICAL PANEL. ANY SUCH CONTACT WILL RESULT IN RAPID CORROSION OF THE ACOUSTICAL PANEL.

      (2) Remove rivets (520 or 525).

      (3) If lip skin is to be replaced, make templates of heavy, 0.015-0.03 inch thick, clear plastic sheet (acrylic, mylar, or equivalent). Positively locate templates by means of tape and index marks on cowl skins and templates. Transfer locations of rivet holes accurately to templates.

      (4) Remove lip skin.

      (5) Remove TAI duct assy, if required.

C. Remove acoustic panel (75, 95) only if required to repair damage.

CAUTION: PREVENT METALLIC CHIPS OR DEBRIS CAUSED BY DRILLING TO CONTACT OR BECOME INBEDDED IN THE ACOUSTICAL PANEL. Any such contact will result in rapid corrosion of the acoustical panel.

(1) Remove rivets (520, 525) securing acoustic panel leading edge to nose inlet cowl skin.

(2) Place indexing marks on engine attach ring flange and nose inlet cowl flange to ensure correct realignment. Remove bolts from engine attach ring and separate attach ring and acoustic panel from the nose inlet cowl.

CAUTION: PREVENT METALLIC CHIPS OR DEBRIS CAUSED BY DRILLING TO CONTACT OR BECOME INBEDDED IN THE ACOUSTICAL PANEL. ANY SUCH CONTACT WILL RESULT IN RAPID CORROSION OF THE ACOUSTICAL PANEL.

(3) Place index mark on engine attach ring forward flange at acoustic panel longitudinal splices. Remove rivets attaching acoustic panel to engine attach ring forward flange.

3. Cleaning

A. Materials

NOTE: Equivalent substitutes may be used.

(1) Solvent -- BMS 11-7 (SOPM 20-30-03)

B. Except as detailed in par. B and C, clean nose cowl parts using procedures in SOPM 20-30-03 and standard industry practices.

CAUTION: USE OF ALKALINE CLEANERS, SOLVENTS, AND ABRASIVES WILL CAUSE DAMAGE TO POLYIMIDE PANELS.

C. Polyimide acoustic panels (75, 95) -- Fresh-water spray or steam clean only.

D. Areas to which aerodynamic sealant will be applied shall be cleaned as follows:

(1) Remove oil, grease, and dirt using standard practice.

(2) Clean with solvent, BMS 11-7 or methyl ethyl ketone. Avoid use of excessive solvent.

(3) Remove excess solvent by clean air blast.

(4) Use clean cloth dampened with solvent for final cleaning.

4. Repair (Fig. 2)

A. Materials

NOTE: Equivalent substitutes may be used.

(1) Primer - BMS 10-11, Type 1 (SOPM 20-60-02)

(2) Paint - BMS 10-60, Type 2 (SOPM 20-60-02)

B. Repair minor defects using standard industry practices.

(1) Refer to Structural Repair Manual 54-10 for repair of sheet metal structural items and to 51-40-11 for repair of polyimide acoustic panel.

(2) For repair of acoustic panel (95) refer to Rohr Industries Inc., Repair Manual, 54-30-01.

C. Aluminum Thermal Anti Ice duct repair (65-59686-24).

(1) Hole repair

(a) Clean area to be repaired and remove damaged duct material.

(b) Fabricate a repair plug from 0.063 inch 5052-0 aluminum sheet and form to match the contour of the duct.

(c) Fusion weld the repair plug per BAC5975, Class B. Use filler wire 4043 per QQ-R-566.

(d) Grind welds flush.

(e) Penetrant inspect the weld per SOPM 20-20-02.

(f) Drill 0.242-0.252 inch and 0.261-0.271 inch holes as required.

(g) Chemically treat welded area per MIL-C-5541,

(2) Replacement of duct section

(a) Remove damaged section of duct.

NOTE: Insure the cut ends of the duct are square and free of burrs.

(b) Fabricate a duct replacement section from 0.050 inch 5052-0 seamless aluminum tubing or 0.049 inch 3003-H14 seamless alunimum tubing.

(c) Fusion weld the duct replacement section per BAC 5975, Class B. Use filler wire 4043 per QQ-R-566.

(d) Grind welds flush.

(e) Penetrant inspect the weld per SOPM 20-20-02.

(f) Drill 0.242-0.252 inch and 0.261-0.271 inch hole as required.

(g) Chemically treat welded area per MIL-C-5541.

D. Refinish

NOTE: Refer to SOPM 20-30-02 for stripping of protective finishes and to SOPM 20-41-01 for explanation of F and SRF finish codes.

(1) Rod end (155) -- Cadmium plate F-1.20. Material: 17-4PH CRES per AMS 5355, 140-160 ksi.

(2) Rod end (185) -- Cadmium plate F-1.20. Material: 17-4PH CRES per AMS 5643, 180-220 ksi.

(3) Tube (140) -- Alodize per SRF-2.901 followed by primer, BMS 10-11 Type 1, and enamel per SRF-14.9264 (SRF-14.9623 optional) 0.008-0.012 thick to area shown in Fig. 401. Material: Alum alloy.

(4) Tube assy (475, 480) -- Chromic acid anodize per SRF-2.115 followed by primer, BMS 10-11, Type 1. Material: Alum alloy.

(5) Rub strip area -- Alodize or chromic acid anodize per SRF-2.30 followed by teflon coating per SRF-14.9625. Material: Alum alloy.

(6) Apply aerodynamic smoothing sealant per SOPM 20-50-11.

(7) Acoustic panel (65-85380-1, -11, item 75)

(a) Remove contaminants by manual sanding using 150 grit, or finer, abrasive paper. Remove sanding residue by wiping with clean cloth saturated with methyl ethyl ketone or equivalent.

(b) Optional method -- steam clean per standard practices and dry thoroughly.

CAUTION: APPLICATION OF COATING OTHER THAN BMS 10-60, TYPE 2, WILL DEGRADE THE PANEL ACOUSTICAL PROPERTIES.

(c) Apply 0.7-1.2 mils equivalent dry film thickness of BMS 10-60, Type 2, flat black polyurethane paint. Do not prime or apply static conditioner, pin hole filler, surfacer or BMS 10-21 conductive coating.

E. Replacement

(1) Bushing (195) -- Install per SOPM 20-50-03 using staking tool ST922C-5. After staking, machine bushing ID 0.312-0.316 inch.

(2) Rod ends (155, 185) -- (Fig. 1).

(3) Rod assembly components (160 thru 180) -- Assemble per Fig. 1 using portable swaging tool Model AT520C, AT520D or AT520JK.

(4) Vortex dissipator (315, 320) -- Install coverplate (365) gasket (390) and bolts (330) when vortex dissipator installation is removed.

(5) Lip skin (515) -- Chromic acid anodize, Type 1 or sulfuric acid anodize, Type 2 (F-17.05) all over. Interior only apply one coat BMS 10-11, Type 1 primer (F-20.02). Material: Al alloy

(6) If lip skin (515) or acoustic panel (75, 95) is removed, it is recommended that lip station 5.75 bulkhead and other parts be replaced with stronger parts per SB 71-1045 or 71-1046.

5. Assembly

A. Materials

(1) Aerodynamic Filler -- BMS 5-79, Class B (SOPM 20-60-04)

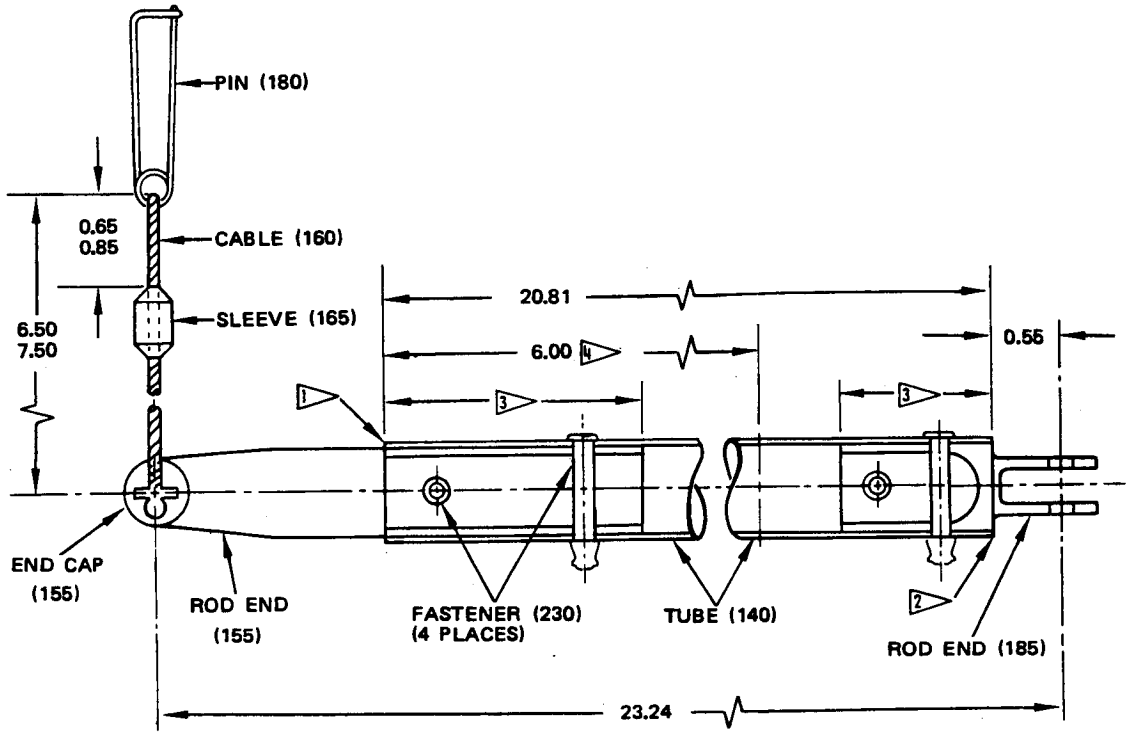
(2) Adhesive Primer -- BMS 5-89 (SOPM 20-41-02)

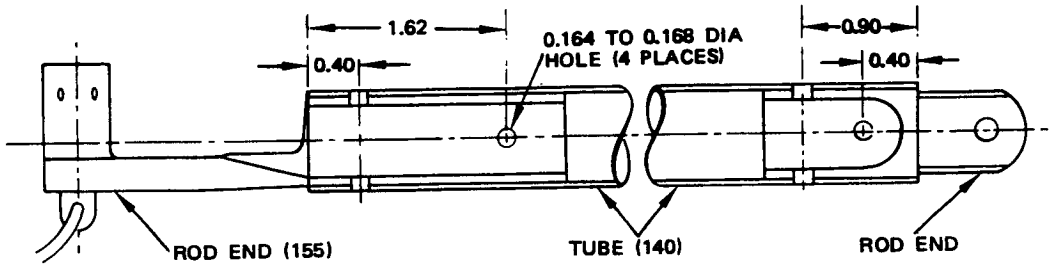
B. Install acoustic panel:

(1) Perform trial installation of acoustic panel (75, 95) and engine attach ring in the nose inlet cowl to ensure 0.06 +0.00-0.02 inch gap at fore and aft edges of acoustic panel.

CAUTION: PREVENT METALLIC CHIPS OR DEBRIS CAUSED BY DRILLING TO CONTACT OR BECOME IMBEDDED IN THE ACOUSTICAL PANEL. ANY SUCH CONTACT WILL RESULT IN REPID CORROSION OF THE ACOUSTICAL PANEL.

(2) Assemble acoustic panel to engine attach ring, aligning splices in acoustic panel with engine attach ring index marks. Maintain 0.06 $\pm$0.02 in. gap between acoustic panel and engine attach ring. Drill holes in aft lip of acoustic panel to match holes in engine attach ring. Install using BACR15BA6D-8 rivets.





ROD ASSEMBLY

NOTE: ALL DIMENSIONS SHOWN IN INCHES

1. SIZE TUBE 0.656 – 0.666 I.D. X 2.38 – 2.42
2. SIZE TUBE 0.656 – 0.666 I.D. X 1.48 – 1.52
3. APPLY BMS 10-11, TYPE 1 PRIMER TO FAYING SURFACES OF ROD ENDS (155) AND (185) AND TUBE (140)
4. APPLY SRF 14.9624 (SRF - 14.9623 OPTIONAL)

CAUTION: PREVENT METALLIC CHIPS OR DEBRIS CAUSED BY DRILLING TO CONTACT OR BECOME IMBEDDED IN THE ACOUSTIC PANEL. ANY SUCH CONTACT WILL RESULT IN RAPID CORROSION OF THE ACOUSTIC PANEL.

(3) Install acoustic panel and engine attach ring assembly in nose inlet cowl (515). Align index marks on engine attach ring with index marks on nose inlet cowl flange. Install bolts, nuts and washers (10, 15, 20, 25). Torque nuts to 130-180 pound-inches.

(4) Ensure that 0.06 $\pm$0.02 inch gap exists between acoustic panel and nose inlet cowl. Drill 0.205-inch holes in forward lip of acoustic panel to match holes in nose inlet skin. Install rivets (520, 525).

(5) Fill 0.06-inch gaps between acoustic panel and nose inlet cowl with aerodynamic filler, BMS 5-79, Class B.

C. Install TAI duct assy (400, 405) using clamps (410), if removed.

D. Locate lip skin (515) on structure:

(1) If lip skin is being reinstalled, align original holes using marks applied before disassembly. If new lip Sta. 5.75 bulkhead has been installed, drill holes in bulkhead flanges to match lip skin.

(2) If new lip skin is installed on bulkhead, use templates made before disassembly, indexed to marks on cowl skins, to locate holes on new parts. Drill and countersink holes.

(3) Install blind rivets (525).

E. If shims are required to maintain contour, fabricate, finish, and install shims conforming to the following description.

(1) Material - 2024-T3 clad aluminum sheet, QQ-A-250/5.

(2) Thickness - 0.032 inch maximum.

(3) Width - not to exceed width of frame flange.

(4) Length - as required but not to exceed 35% of the developed length of flange affected.

(5) Contour - form and taper as required.

(6) Finish - (F-20.26) Apply BMS 5-89 corrosion resistant bondable primer per 20-41-02 prior to handling.

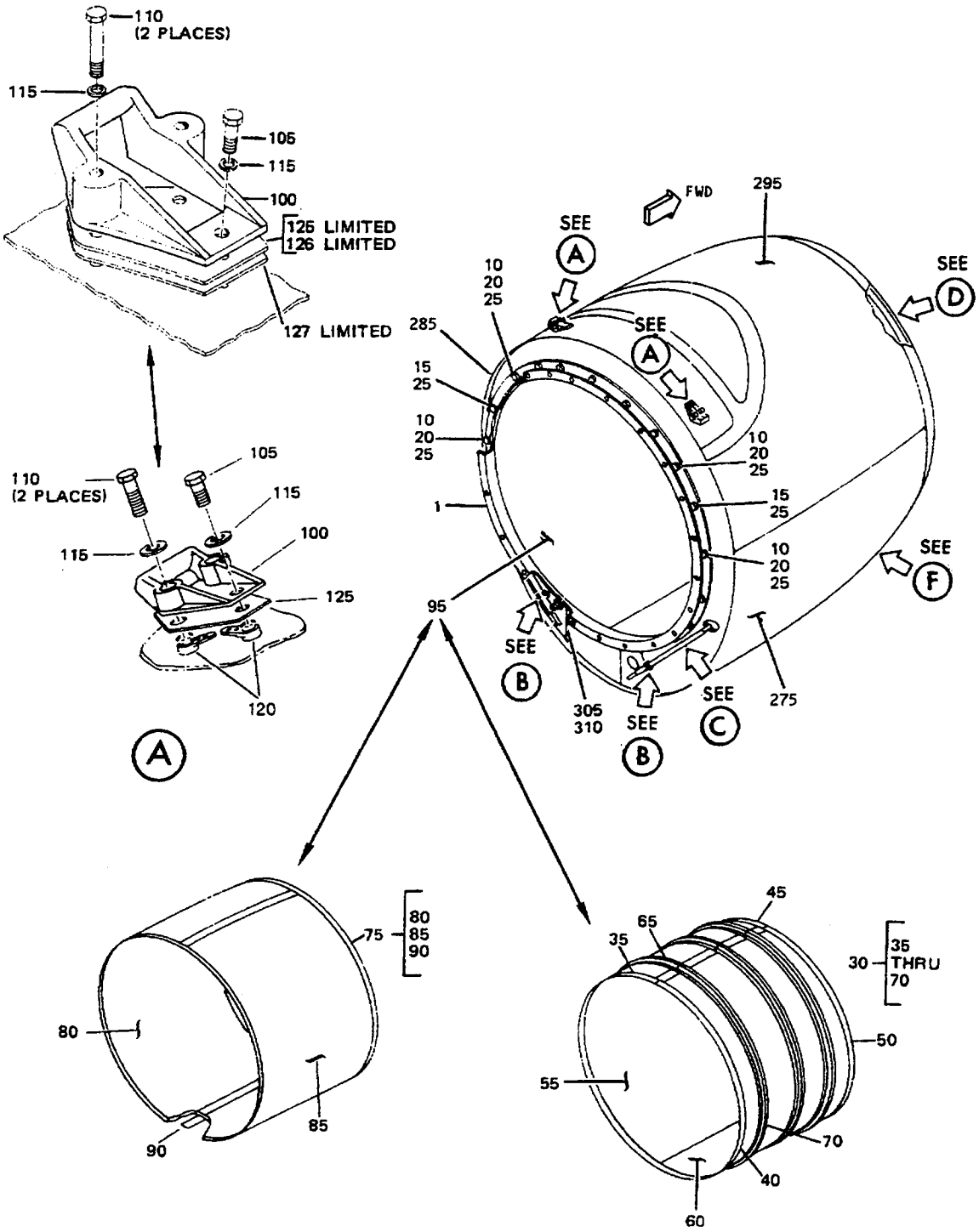
(7) Gap - end gap between shims not to exceed 0.06 inch.

6. Special Tools, Fixtures, and Equipment

NOTE: Equivalent tools may be used.

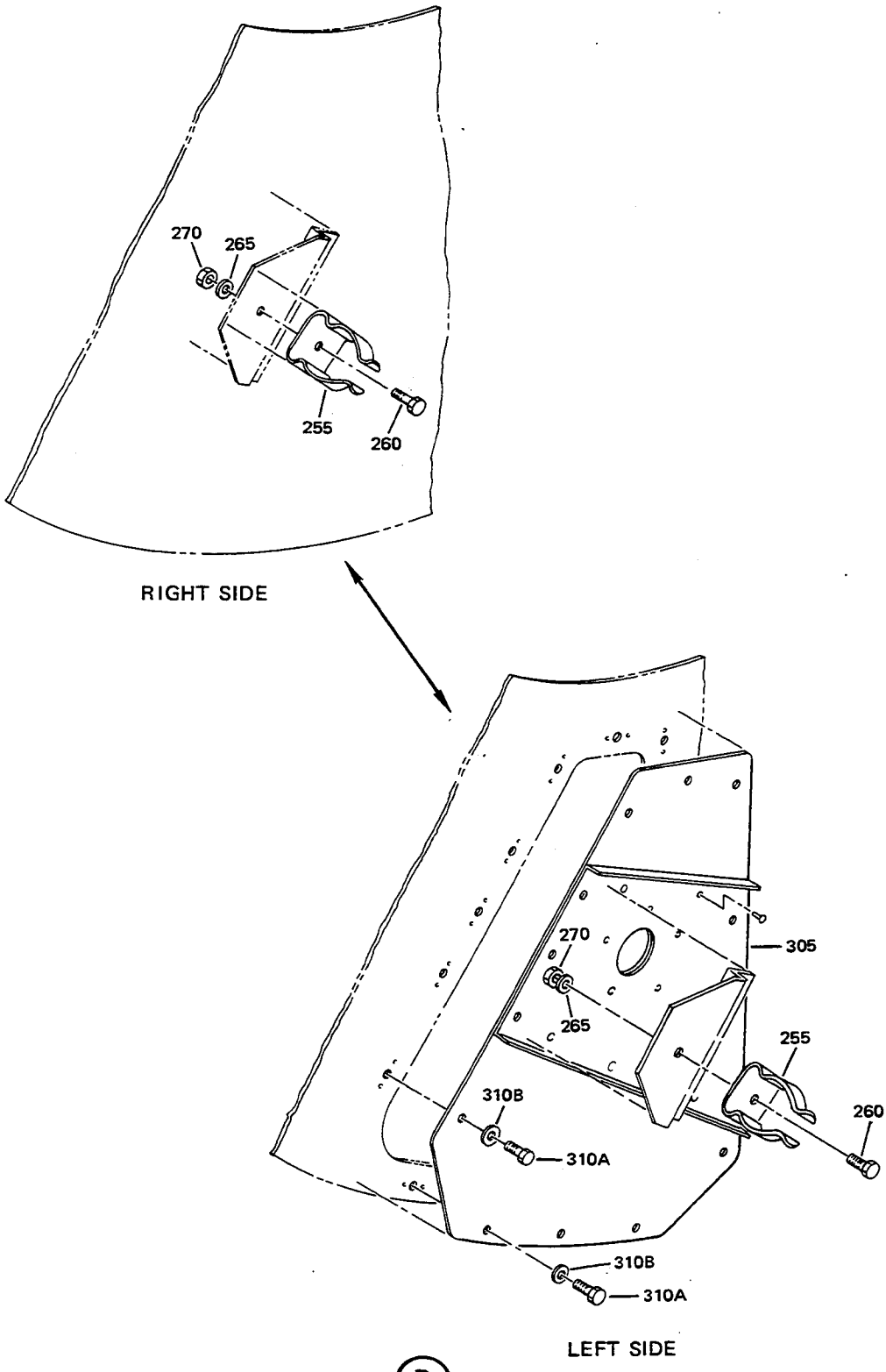
A. Staking Tool -- ST922C-5 (Ref 20-50-03)

7. ILLUSTRATED PARTS LIST

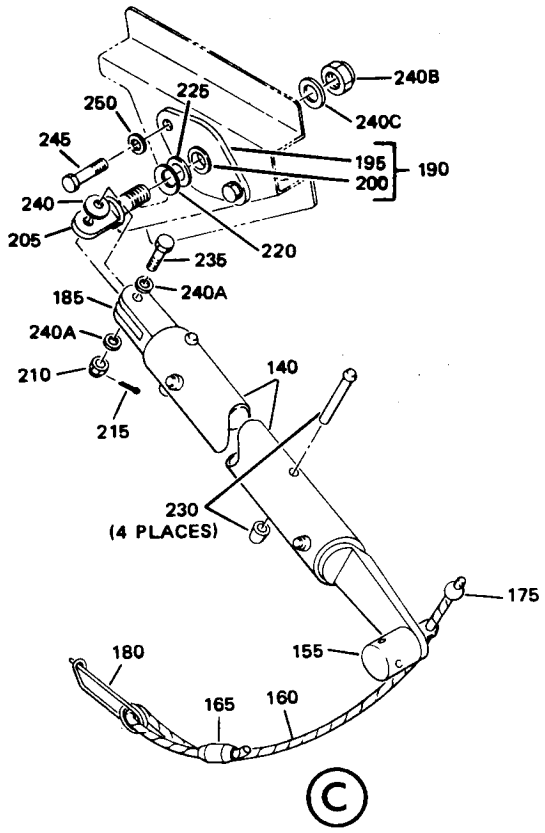


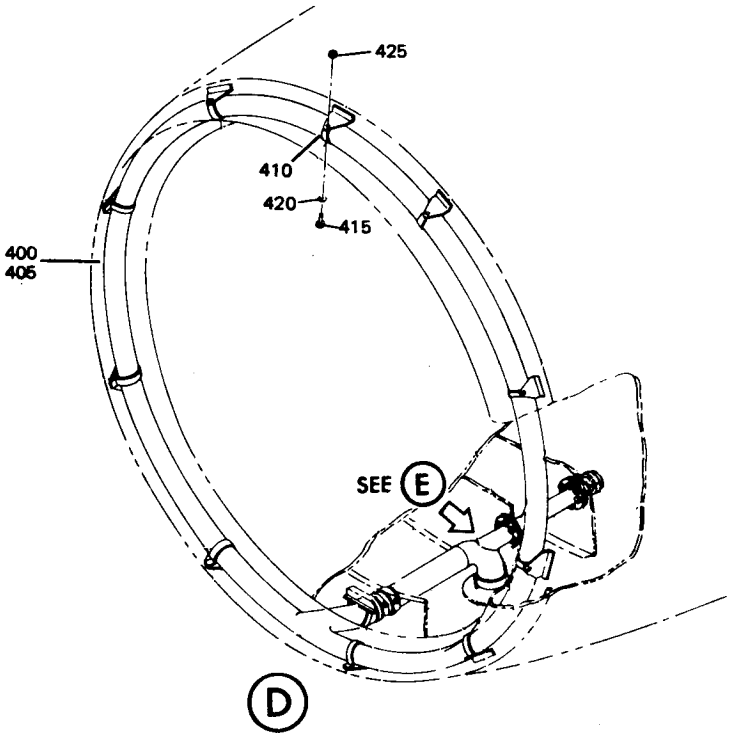
Nose Cowl Assembly Fat Lip
Figure 2 (Sheet 1)

H99188

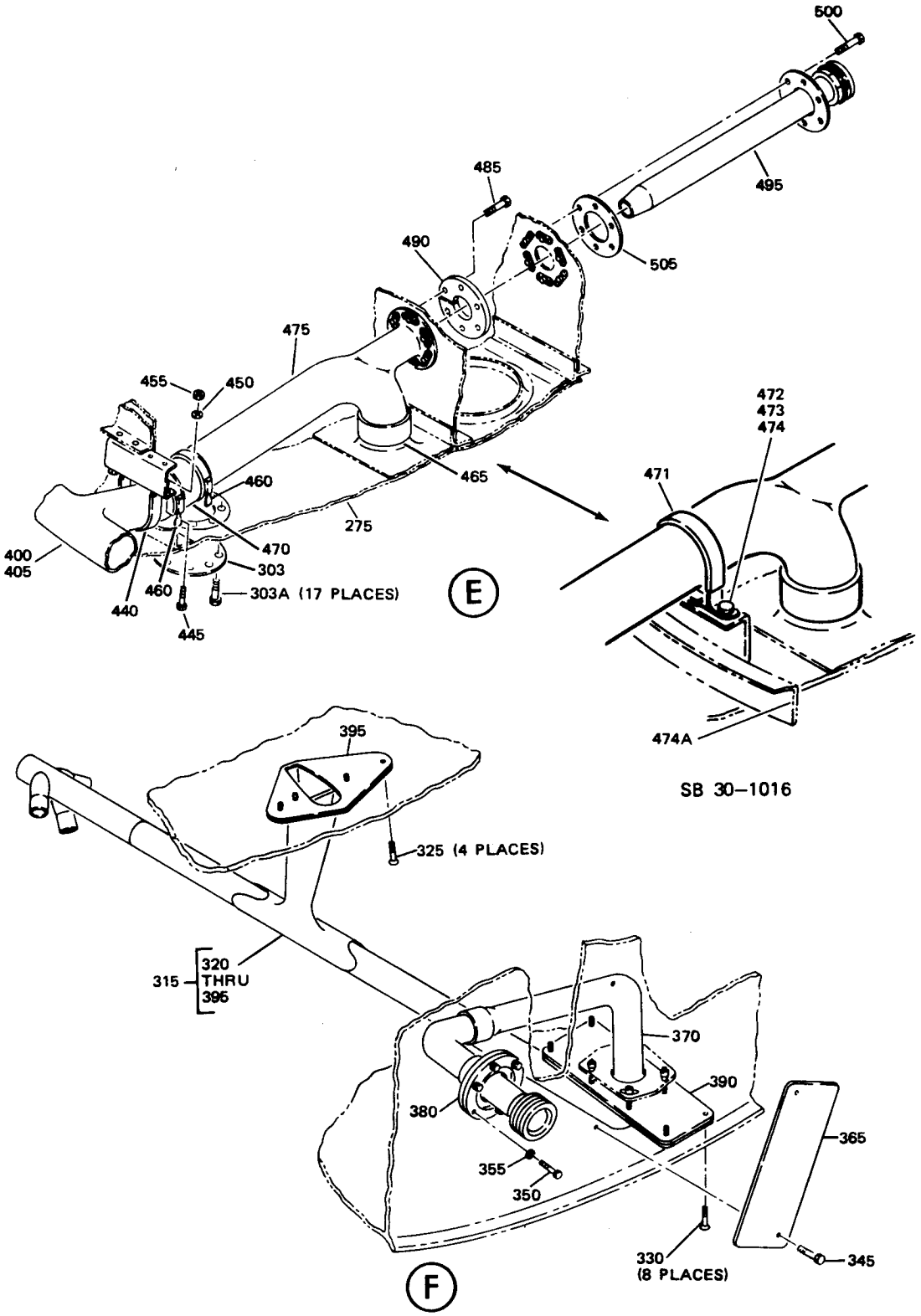


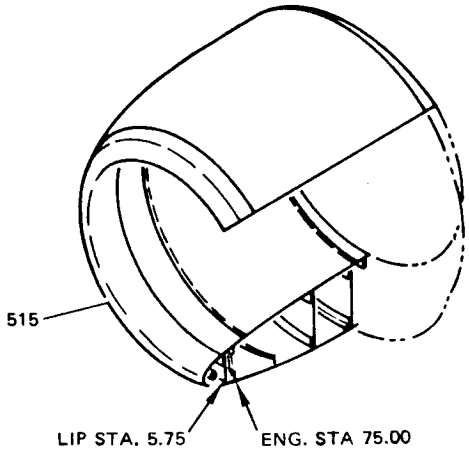
Nose Cowl Assembly Fat Lip
Figure 2 (Sheet 2)

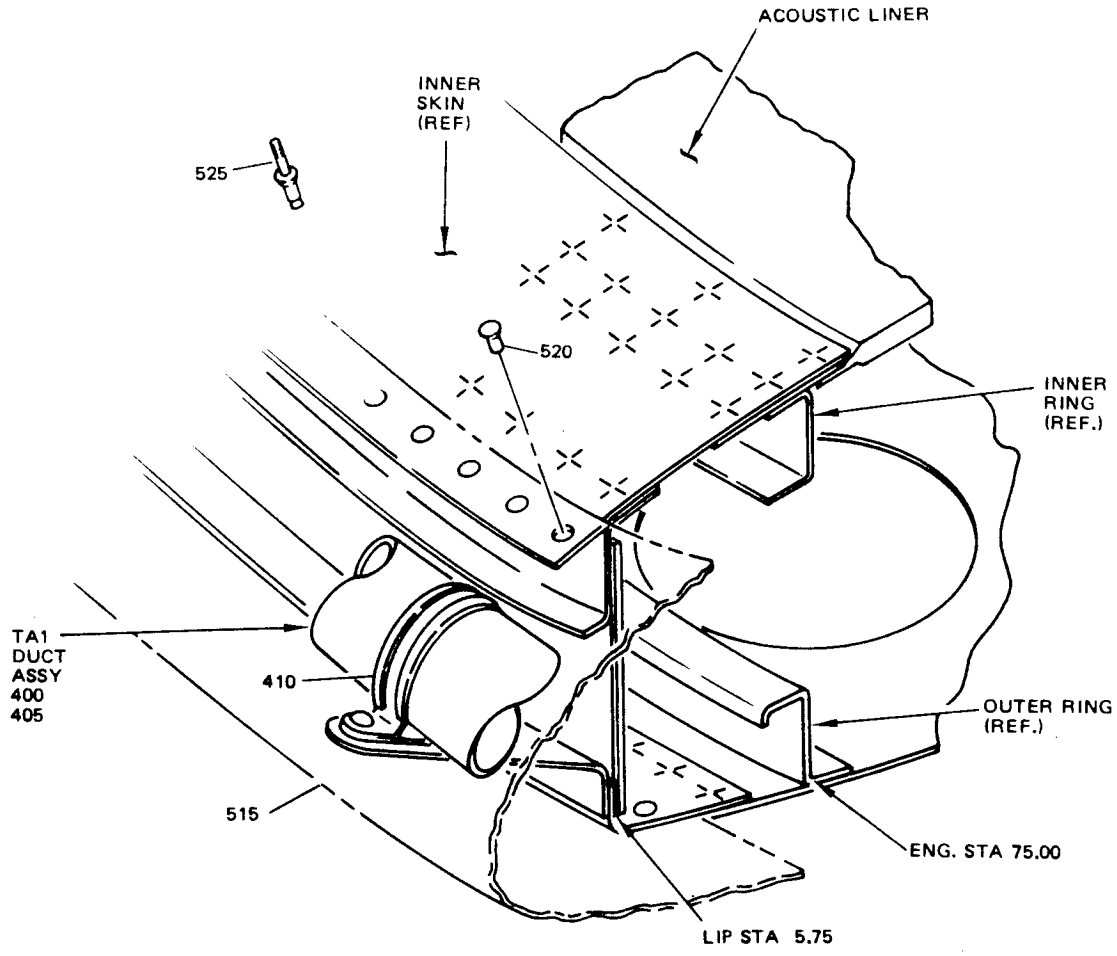




Nose Cowl Assembly Fat Lip
Figure 2 (Sheet 3)


500
485
495
490
505
475
455
450
472
473
474
465
460
471
275
400
405
470
303
460
303A (17 PLACES)
440
445
E
474A
SB 30-1016
395
325 (4 PLACES)
315
320
THRU
395
370
390
380
365
355
350
330
(8 PLACES)
345
F





Nose Cowl Assembly Fat Lip
Figure 2 (Sheet 5)

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
2-					
	65-85378-1		COWL ASSY, NOSE FAT LIP, NONACOUSTIC (PRE SB 71-1256)	A	RF
	65-85378-101		COWL ASSY, NOSE FAT LIP, ACOUSTIC (PRE SB 71-1131)	B	RF
	65-85378-311		COWL ASSY, NOSE FAT LIP, ACOUSTIC	C	RF
	65-85378-2		COWL ASSY, NOSE FAT LIP, NONACOUSTIC (PRE SB 71-1256)	D	RF
	65-85378-102		COWL ASSY, NOSE FAT LIP, ACOUSTIC (PRE SB 71-1131)	E	RF
	65-85378-312		COWL ASSY, NOSE FAT LIP, ACOUSTIC	F	RF
	65-85378-315		COWL ASSY, NOSE FAT LIP, ACOUSTIC BASIC (POST SB 71-1046, 71-1256) *[2]	G	RF
	65-85378-316		COWL ASSY, NOSE FAT LIP, ACOUSTIC BASIC (POST SB 71-1046, 71-1256) *[2]	H	RF
	65-85378-359		COWL ASSY, NOSE FAT LIP, NONACOUSTIC VARIABLE (POST SB 71-1045)(PRE SB 71-1256)	I	RF
	65-85378-360		COWL ASSY, NOSE FAT LIP, NONACOUSTIC VARIABLE (POST SB 71-1045)(PRE SB 71-1256)	J	RF
	65-85378-383		COWL ASSY, NOSE FAT LIP, ACOUSTIC BASIC (POST SB 71-1256) *[2]	K	RF
	65-85378-384		COWL ASSY, NOSE FAT LIP, ACOUSTIC BASIC (POST SB 71-1256) *[2]	L	RF
	65-85378-387		COWL ASSY, NOSE FAT LIP, ACOUSTIC BASIC (POST SB 71-1256, 71-1111) *[2]	M	RF
	65-85378-388		COWL ASSY, NOSE FAT LIP, ACOUSTIC BASIC (POST SB 71-1256, 71-1111) *[2]	N	RF
	65-85378-395		COWL ASSY, NOSE FAT LIP, ACOUSTIC BASIC (POST SB 71-1256) *[2]	O	RF
	65-85378-396		COWL ASSY, NOSE FAT LIP, ACOUSTIC BASIC (POST SB 71-1256) *[2]	P	RF
	65-85378-281		SPARES ASSY, NOSE COWL, LH NONACOUSTIC	Q	RF
	65-85378-282		SPARES ASSY, NOSE COWL, RH NONACOUSTIC	R	RF
	65-85378-283		SPARES ASSY, NOSE COWL, LH ACOUSTIC	S	RF
	65-85378-284		SPARES ASSY, NOSE COWL, RH ACOUSTIC	T	RF
	65-85378-313		SPARES ASSY, NOSE COWL, LH ACOUSTIC	U	RF
	65-85378-314		SPARES ASSY, NOSE COWL, RH ACOUSTIC	V	RF
	65-85378-363		SPARES ASSY, NOSE COWL, LH ACOUSTIC	W	RF
	65-85378-364		SPARES ASSY, NOSE COWL, RH ACOUSTIC	X	RF

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
2-					
	65-85378-385		SPARES ASSY, NOSE COWL, LH ACOUSTIC	Y	RF
	65-85378-386		SPARES ASSY, NOSE COWL, RH ACOUSTIC	Z	RF
	65-85378-391		COWL ASSY, NOSE FAT LIP, LH NON-ACOUSTIC	BA	RF
	65-85378-392		COWL ASSY, NOSE FAT LIP, RH NONACOUSTIC	CA	RF
	65-85378-393		SPARES ASSY, NOSE COWL, LH ACOUSTIC	DA	RF
	65-85378-394		SPARES ASSY, NOSE COWL, RH ACOUSTIC	EA	RF
	65-85378-397		SPARES ASSY, NOSE COWL, LH ACOUSTIC (POST SB 71-1140)	FA	RF
	65-85378-398		SPARES ASSY, NOSE COWL, RH ACOUSTIC (POST SB 71-1140)	GA	RF
	65-86025-9		COWL ASSY, NOSE FAT LIP, ACOUSTIC (POST SB 71-1131)	HA	RF
	65-86025-10		COWL ASSY, NOSE FAT LIP, ACOUSTIC (POST SB 71-1131)	IA	RF
1	65-85378-293		. RING, ATTACHMENT LH	ABCGI KMOQS UWY BA DA FA HA	1
-5	65-85378-294		. RING, ATTACHMENT RH	DEFHJ NPRTV XZ CA EA GA IA	1
10	BACB30NE5-5		. BOLT		23
15	BACB30NE5-6		. BOLT		2
20	AN960D516		. WASHER		23
25	BACN10GW5		. NUT		25
30	65-85381-1		. PANEL ASSY, LINER NONACOUSTIC	ADQR	1
30	65-85381-20		. PANEL ASSY, LINER NONACOUSTIC	IJ BA CA	1
35	65-85381-10		. . RING HALF		1
40	65-85381-11		. . RING HALF		1
45	65-85381-12		. . RING HALF		1
50	65-85381-13		. . RING HALF		1
55	65-85381-2		. . PANEL		1
60	65-85381-3		. . PANEL		1
65	65-85381-4		. . FRAME		1
70	65-85381-5		. . FRAME		1
75	65-85380-1		. PANEL ASSY, ACOUSTIC (PRE SB 71-1131)	BEST HA IA	1
75	65-85380-11		. PANEL ASSY, ACOUSTIC (REPLS 65-85381-1)	BEST HA IA	1

- ITEM NOT ILLUSTRATED

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
2-					
80	65-85380-2		. . PANEL ASSY, LH		1
80	65-85380-12		. . PANEL ASSY, LH		1
85	65-85380-3		. . PANEL ASSY, RH		1
85	65-85380-13		. . PANEL ASSY, RH		1
90	65-85380-5		. . STRIP, SPLICE		1
95	10-61900-3		. PANEL, ACOUSTIC (REPLS 65-85380-11)	CFGHUV WX	1
95	10-61900-4		. PANEL, ACOUSTIC	KLMNYZ DA EA	1
95	10-61900-6		. PANEL, ACOUSTIC (POST SB 71-1131)	OP FA GA HA IA	1
100	65-79484-3		. BRACKET, LATCH *[1]	G-P W-GA	2
100	65-79484-1		. BRACKET, LATCH *[1]		2
105	BACB30NE3-5		. BOLT		2
110	BACB30NE3-15		. BOLT		2
115	AN960C10L		. WASHER		3
120	BACN10KB3F		. NUTPLATE		4
125	BACS40M35-40		. SHIM *[1] (USED WITH 65-79484-1)		2
126	BACS40R21C25F		. SHIM *[1] (USE WITH 65-79484-3)	G-P W-GA	2
127	BACS40R21D25F		. SHIM *[1] (USE WITH 65-79484-3)	G-P W-GA	2
130	65-55748-3		. ROD INSTL, COWL SUPPORT		2
135	65-46695-9		. . ROD ASSY		2
140	65-46695-8		. . . TUBE		1
150	65-46695-10		. . . ROD END ASSY		
155	66-5563-4		. . . . ROD END		1
160	BACC13G208-090CA		. . . . CABLE		1
165	28-1C		. . . . SLEEVE, V76691		1
-170	BACT14A4		. . . . TERMINAL (OPT TO 28-1C)		1
175	BACT14B2		. . . . CAP		1
180	NUMBER 2		. . . . PIN, V00357		1
185	63-2892-2		. . . ROD END		1
190	66-16151-2		. . . PLATE ASSY		1
195	BACB28B5-260		. . . . BUSHING		1
200	66-16151-3		. . . . PLATE		1
205	66-23351-3		. . . BOLT		1
210	BACN10JD4		. . . NUT (REPLS AN310-4)		1
215	MS24665-151		. . . PIN (REPLS AN318-2-8)		1
220	3502-18-04-4102		. . . WASHER, V77900		1

- PARTS NOT ILLUSTRATED *[1] LIMITED USE

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
2-					
225	AN960C516L		. . . WASHER		1
230	HL18PB5-12		. . . FASTENER, V73917		4
235	NAS1104-7DW		. . . BOLT		1
240	5804-36-2		. . . WASHER, V86928		1
240A	AN960-416L		. . . WASHER		2
240B	NAS679A4W		. . . NUT		1
240C	AN960C416L		. . . WASHER		1
			ATTACHING PARTS		
245	BACB30NE3-3		. . BOLT (REPLS NAS1303-3)		2
250	AN960D10		. . WASHER		2
			---------*---------		
255	66-8350		. . CLIP		2
			ATTACHING PARTS		
260	BACB30NE3-3		. BOLT		2
65	AN960PD10		. WASHER		2
270	BACN10JC3		. NUT		2
			--------*--------		
275	65-85378-3		. COWL, INBD SKIN	ABCQSU HA	1
275	65-85378-367		. COWL, INBD SKIN *[1]	GIKWY	1
275	65-85378-389		. COWL, INBD SKIN	MO BA DA FA	1
-280	65-85378-4		. COWL, INBD SKIN *[1]	DEFHJL RTVXZ IA	1
-280	65-85378-390		. COWL, INBD SKIN	NP CA EA GA	1
285	65-85378-5		. COWL, OUTBD SKIN	ABCGIK MOQSUW Y BA DA FA HA	1
-290	65-85378-6		. COWL, OUTBD SKIN	DEFRTV IA	1
-290	65-85378-368		. COWL, OUTBD SKIN	HJLNPX Z CA EA GA	1
295	65-85378-7		. COWL, UPPER SKIN	ABCGIK MOQSUW Y BA DA FA HA	1

- PARTS NOT ILLUSTRATED *[1] LIMITED USE

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
2-					
-300	65-85378-8		. COWL, UPPER SKIN	DEFHJL NPRTVX Z CA EA GA IA	1
303	65-85378-365		. PLATE (POST SB 71-1045, -1046)	G-P W-GA	1
303A	BACB30LU3		. BOLT (POST SB 71-1045, -1046)	G-P W-GA	17
305	65-85378-211		. PANEL ASSY		1
310	65-85378-207		. . PANEL ATTACHING PARTS		1
310A	BACB30NE3-4		. BOLT		13
310B	AN960PD10		. WASHER		13
			--------*--------		
315	65-77432-213		. DISSIPATOR INSTL, VORTEX BOOM	ABCGIK MOQSUW Y BA DA FA HA	1
320	65-77432-214		. DISSIPATOR INSTL, VORTEX BOOM	DEFHJL NPRTVX Z CA EA GA IA	1
325	BACB30LR3-7		. . BOLT		4
330	BACB30LR3-4		. . BOLT		8
335	65-77432-215		. . BOOM ASSY	ABCGIK MOQSUW Y BA DA FA HA	1
340	65-77432-216		. . BOOM ASSY	DEFHJL NPRTVX Z CA EA GA IA	1
345	NAS6603-2		. . BOLT		2
350	BACB30LM3C-3		. . BOLT		6
355	AN960-10		. . WASHER		6
365	65-77432-212		. . PLATE		1

- PARTS NOT ILLUSTRATED

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
2-					
370	65-77432-171		. . TUBE ASSY	ABCGIK MOQSUW Y BA DA FA HA	1
-375	65-77432-181		. . TUBE ASSY	DEFHJL NPRTVW Z CA EA GA IA	1
380	65-77432-195		. . GASKET		1
390	65-77432-196		. . GASKET		1
395	65-77432-211		. . GASKET		1
400	65-59686-18		. DUCT ASSY, THERMAL A/I	ABCQSU HA	1
400	65-59686-24		. DUCT ASSY, THERMAL A/I (POST SB 71-1045, -1046)	HJLNPX Z CA EA GA	1
405	65-59686-19		. DUCT ASSY, THERMAL A/I	DEFRTV IA	1
405	65-59686-25		. DUCT ASSY, THERMAL A/I (POST SB 71-1045, -1046)	GIKMOW Y BA DA FA	1
410	BACC10EP32		. . CLAMP ATTACHING PARTS		10
415	BACS12CK3U9		. . SCREW		10
420	AN960C10L		. . WASHER		10
425	BACN10JC3C		. . NUT --------*--------		10
430	65-85367-19		. MIXING CHAMBER, TAI (SB 30-1010 R2)	GIKMOW Y BA DA FA	1
430	65-85367-1		. MIXING CHAMBER, TAI	ABCQSU HA	1
-435	65-85367-20		. MIXING CHAMBER, TAI (SB 30-1010 R2)	HJLNPX Z CA EA GA	1
-435	65-85367-2		. MIXING CHAMBER, TAI	DEFRTV IA	1
440	69-62732-1		. . CLAMP ASSY ATTACHING PARTS		1
445	BACB30LM3-3		. . BOLT		2
450	AN960XC10L		. . WASHER		2
455	BACN10GW3A		. . NUT --------*--------		2

- PARTS NOT ILLUSTRATED

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
2-					
460	69-70156-1		. . CLAMP (REPLS AN737TW82 PER SB 30-1010 R2)		2
460	AN737TW82		. . CLAMP		2
465	710043-2.25-4		. . SLEEVE, V70628		1
470	69-70158-1		. . SLEEVE (REPLS 710043-2.25-10 PER SB 30-1010 R2)		1
470	710043-2.25-10		. . SLEEVE, V70628		1
471	TA4C67H36AC		. . CLAMP (SB 30-1010 R2)		1
			ATTACHING PARTS		
472	BACB30LM-3-3		. . BOLT		2
473	AN960XC10L		. . WASHER		2
474	BACN10GW3A		. . NUT		2
			--------*--------		
474A	65-85367-21		. . ANGLE (SB 30-1010 R2)		1
-474B	65-85367-22		. . ANGLE (SB 30-1010 R2)		1
			ATTACHING PARTS		
-474C	BACR15BB6D		. . RIVET		4
			--------*--------		
475	65-85367-3		. . TUBE ASSY	ABCGIK MOQSUW Y BA DA FA HA	1
-480	65-85367-4		. . TUBE ASSY	DEFHJL NPRTVX Z CA EA GA IA	1
485	BACB30LM3-6		. . BOLT		6
490	65-85367-12		. . SEAL		1
495	65-85367-5		. . NOZZLE ASSY		1
500	BACB30LM3-3		. . BOLT		6
505	69-50826-4		. . GASKET		1
-510	MS27253-1		. PLATE, IDENT.		1
515	65-85378-15		. SKIN, LIP	ABCGIK MOQSUW Y BA DA FA HA	1
515	65-85378-16		. SKIN, LIP (OPP)	DEFHLN PRTVXZ CA EA GA IA	1

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
2-			ATTACHING PARTS		
520	BACR15BA5D		. RIVET		280
520	BACR15BA6D9		. RIVET (POST SB 71-1131)	HA IA	140
525	NAS1399D5-3		. RIVET, BLIND (REPLS BACR15BA5D PER SB 71-1045/46)		280
525	NAS1739E5-3		. RIVET, BLIND (OPT, PREF)		280
525	NAS1399D6-5		. RIVET, BLIND (REPLS BACR15BA5D PER SB 71-1131)	HA IA	140

- PARTS NOT ILLUSTRATED

*[1] LIMITED USE

*[2] (POST SB 71-1221, 71-1253) FOR PRE SB CONFIGURATION, SEE OHM 71-13-01 TOP ASSEMBLY 65-60529-767, -768

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