

TO: ALL HOLDERS OF AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSEMBLY  
 OVERHAUL MANUAL, 49-13-01

REVISION NO. 16, DATED JUL 1/09

HIGHLIGHTS

DESCRIPTION OF CHANGE	TOPICS AFFECTED												
	D & O	D / A s s y	C l e a n i n g	I n s p / C h k	R e p a i r	A s s y	F / C	T e s t	T / S h o o t i n g	S / T o o l s	S t o r a g e	I P L	L / O v e r h a u l
Changed the part number of rivet (22)												X	

# AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSEMBLY

## 49-13-01

**BOEING P/N** 65-62575-1, -21, -22, -29, -31, -32, -33, -35, -45, -46  
 65C36935-6, -9, -10  
 65C36936-3, -6, -8  
 65C36937-10

### AIRLINE P/N

THE FOLLOWING DIRECTIVES APPLY TO THIS SUBJECT:

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVES	DATE DIRECTIVE INCORPORATED INTO TEXT
49-1015, Rev 1		PRR 31887 PRR 32410	Jun 10/71 Dec 25/74 Dec 25/75
49-1025 49-1026			Jul 5/76 Jul 5/76
49-1101 49-1101, Rev 2		PRR 32457-R PRR 33890-99	Sep 5/93 Mar 1/95

## 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
49-13-01					
T-1	Mar 1/08				
T-2	BLANK				
* LEP-1	Jul 1/09				
LEP-2	BLANK				
T/C-1	Sep 5/93				
T/C-2	BLANK				
1	Sep 5/84				
2	Jun 1/97				
3	Mar 1/95				
4	Mar 1/08				
5	Mar 1/95				
6	Mar 1/08				
7	Sep 5/93				
8	Sep 5/93				
9	Jul 1/98				
10	Mar 1/08				
11	Mar 1/08				
12	Mar 1/08				
13	Mar 1/08				
* 14	Jul 1/09				
15	Mar 1/08				
16	Mar 1/08				
17	Mar 1/08				
18	BLANK				

**BOEING**   
**COMMERCIAL JET**  
**OVERHAUL MANUAL**

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

AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSEMBLY

1. DESCRIPTION AND OPERATION

A. Description

- (1) The APU exhaust duct muffler assembly is a cylindrical metal unit with a felt metal liner.

B. Operation

- (1) The muffler is fitted inside the heat shield in such a way that a cylindrical air space exists between the muffler and the heat shield. A felt metal liner is installed on the inside surface of the muffler for reducing the sound level of the APU exhaust. The exhaust duct is air cooled by aspiration. The gas flow in the muffler develops negative pressure at the gap between the turbine exhaust flange and the forward end of the muffler. This draws the ambient cooling air through the air holes in the aft fairing. The cooling air passes between the inside surface of the heat shield and the outside surface of the muffler into the opening aft of the turbine exhaust port, where it mixes with the engines exhaust gases and is exhausted overboard.

2. DISASSEMBLY

NOTE: Disassemble this component only as necessary to complete fault isolation, determine the serviceability of parts, perform required repairs, and restore the unit to serviceable condition.

3. CLEANING

- A. Flush unit with approximately 1 gallon of MEK. Air dry.
- B. Heat caustic alkali cleaning solution to 175°F and immerse muffler in solution. Leave muffler in solution for 5 minutes.
- C. Agitate solution to wash muffler interior thoroughly, and lightly brush all over with bristle brush.
- D. Remove muffler from cleaning solution and immerse in detergent solution heated to 175°F.
- E. Agitate detergent solution and brush with bristle brush.
- F. Remove muffler from detergent solution and stand it on one end to drain.

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- G. After draining, place muffler in a hot environment at 150°F for 5 hours.
- H. Remove muffler from hot air environment and cool to room temperature.
- I. Materials

- (1) Solvent – Methyl Elthyl Ketone (MEK) (Ref. 20-60-01).
- (2) Cleaning solution, caustic alkali -- Heavy duty soak cleaner (Ref. 20-60-01). Mix one part of caustic compound with 35 parts water.
- (3) Detergent solution -- Any commercially available detergent can be used (Ref. 20-60-01). Mix in ratio of 1.5 pounds to 35 gallons of water.

4. INSPECTION/CHECK

- A. Check for foreign matter trapped inside muffler.
- B. Visually check fusion welds.
- C. Special Checks
  - (1) Allowable Wrinkles
    - (a) Maximum height - 0.25 inch
    - (b) Ratio height to 1/2 width - 1:4
    - (c) Length - No limit
    - (d) Form - Smooth contour; no sharp edges allowed
    - (e) Number - No limit
  - (2) Allowable Cracks (Fig. 2)
    - (a) Maximum length of crack - 2.0 inches except tube (16) and liner (19).
    - (b) Minimum space between cracks - Not less than 2 times length of crack.
    - (c) Total length of all cracks in any one panel not to exceed 10.0 inches.
    - (d) Cracks originating from rivet holes not to exceed 0.5 inch in length.

- (e) Cracks originating from the following are not permissible.
  - 1) Adjacent rivet holes.
  - 2) Edge of material
  - 3) Support brackets (1, 2 and 2A) and their attachment points.
- (f) Maximum length of cracks in tube (16) and liner (19) is 3.0 inches.

## 5. REPAIR

### A. Repair (Fig. 2)

- (1) If liner (19) defects exceed limits in par. 4.C., and tube (16) is fractured, repair as follows:
  - (a) Trim damaged area per Fig. 1, Detail A. If damaged area exceeds 9 square inches, replace part.
  - (b) Insert cerafelt (Thermal Ceramics, 2102 Old Savannah Road, Augusta, Georgia 30903) 6-pound density (8-pound optional), 3/4 inch thick, through liner (19) (Fig. 1, Detail B).
  - (c) Patch with 0.040 THK 10 RAYLS nominal flow resistance 347 CRES porous metal sheet, feltmetal, FM 125 (Technetics, 1600 Industrial Drive, Deland, Florida 32724). Optional — Aircraft Porous Media, Specification PMS1507 (Pall Trinity Micro Corp, Micro Metallic Division, Route 281, Cortland, New York 13045) with doubler being 0.032 THK 321 or 347 CRES per MIL-S-6721 ANL (Fig. 1, Detail C).

NOTE: Do not attempt to remove liner (19) from muffler assembly to patch repair. Damage to liner may result. If fracture is in an inaccessible area, replace liner.

  - (d) Rivet with MS20604MP4W2-4 as required.
- (2) If cracks or holes exist in tube (16), liner (9 and 19), skin (7, 12 and 20), refer to par. 4.C. If repair is required proceed as follows:
  - (a) Trim damaged area per Fig. 1, Detail A.
  - (b) Patch - skin (7 and 12) or liner (9), patch with 0.032 THK 6AL-4V TI, MIL-T-9046 or AMS 4911, type III COMP C ANL; skin (20), patch with 0.032 THK 321 or 347 CRES per MIL-S-6721 ANL; tube (16) or liner (19), refer to par. 5.A.(1)(c).

- (c) Patch skin (7, 12 and 20) on the outside of muffler. Patch liner (9) on the inside of muffler (Fig. 1, Detail C and D).
- (d) Rivet
  - 1) On skin (7 and 12), liner (9), skin (20) use rivets (22 thru 22H) as required (Fig. 1, Detail D).
  - 2) On tube (16) or liner (19) use MS20604MP4W2-4 rivets as required (Fig. 1, Detail C).

#### B. Replacement (Fig. 2)

##### (1) Replace liner (9 and 19) as follows:

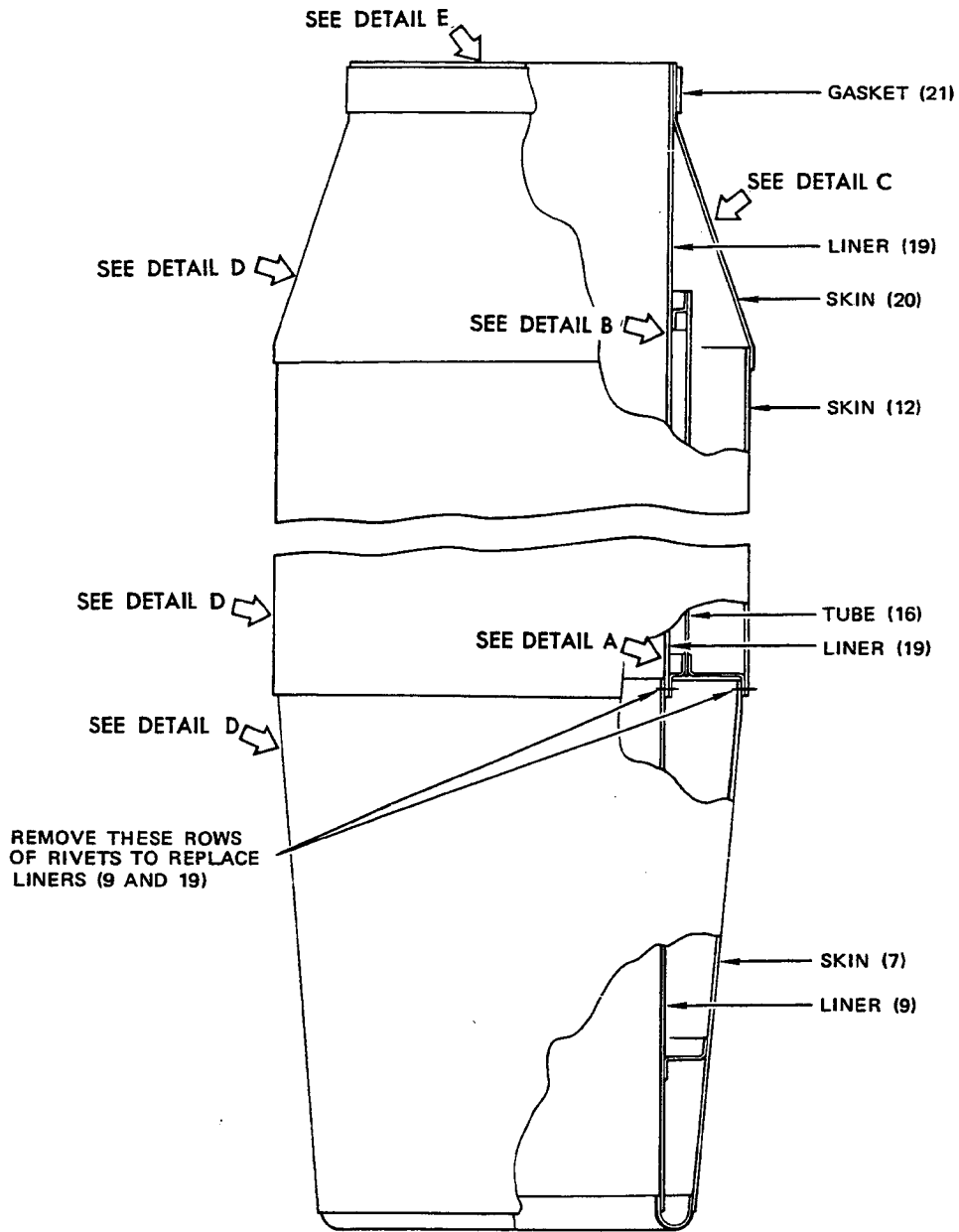
- (a) Remove rivets (24) from liner (19), skin (20), and gasket (21) (Fig. 1, Detail E) (65-62575-1 only).
- (b) Remove rivets attaching skin (12) and skin (7). Separate skin (12) from skin (7).
- (c) Remove rivets attaching liner (9) and liner (19). Separate liner (9 and 19).
- (d) Attach gasket (21) to skin (20) using rivets (24) countersunk both sides, using same rivet pattern (65-62575-1 only).
- (e) Attach liner (19), sleeve (8B), spacer (8A), and shims (8, 8C) to inner baffle (18) with rivet (22F) (65C36936-3, -6, -8) (Fig. 1A).
- (f) Attach skin (7 and 12) and liner (9 and 19) using rivets (22 thru -22H).

#### C. 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.

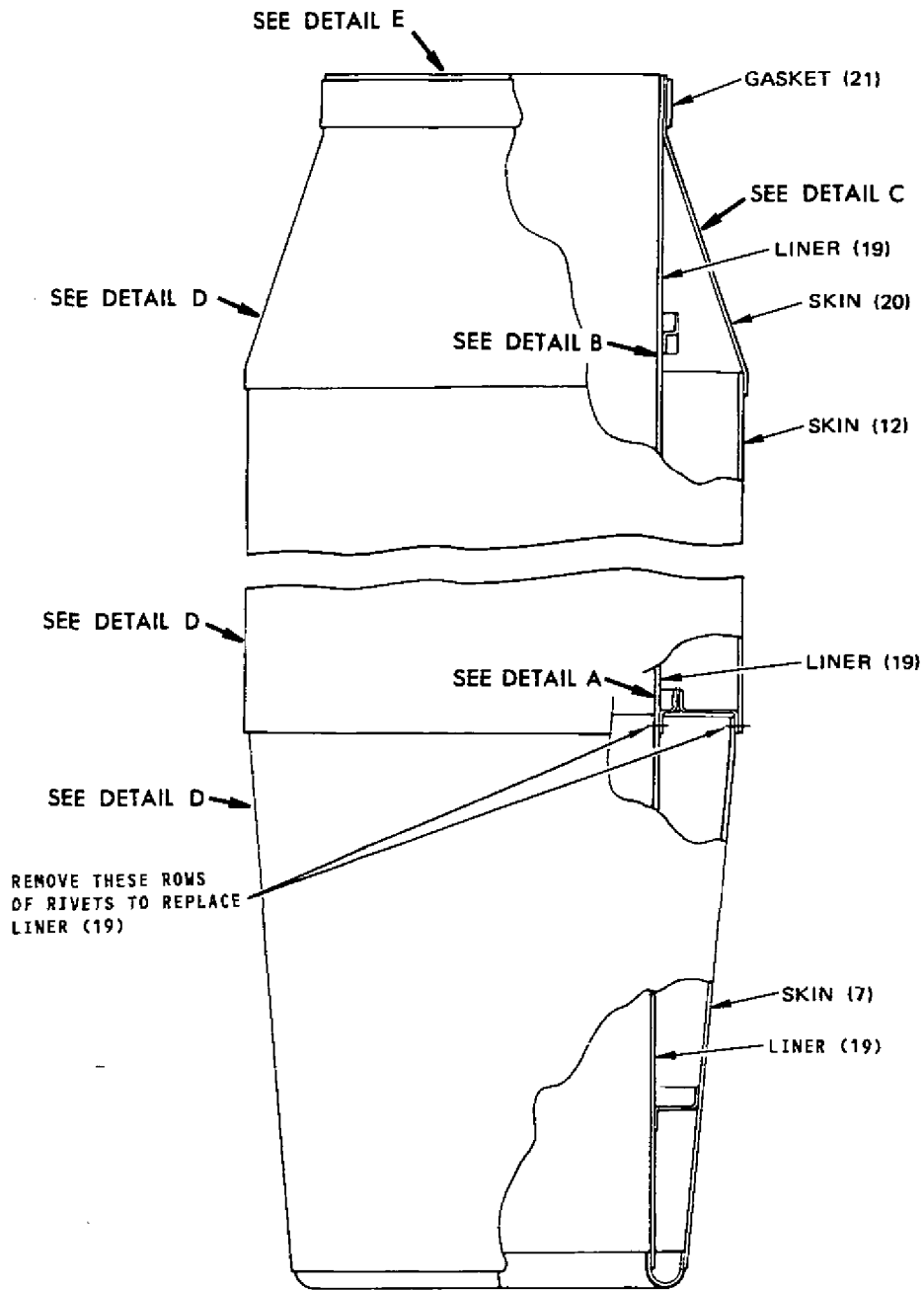
- (1) Bracket 69-67533-3 (35, IPL Fig. 3) -- Passivate (F-8.07). Material: AISI 321/347 CRES (AISI 301 CRES OPT).
- (2) Bracket 69-67533-7 (35, IPL Fig. 3) -- Passivate (F-17.25, which replaces F-17.09). Material: AISI 321/347 CRES (AISI 301 CRES OPT).





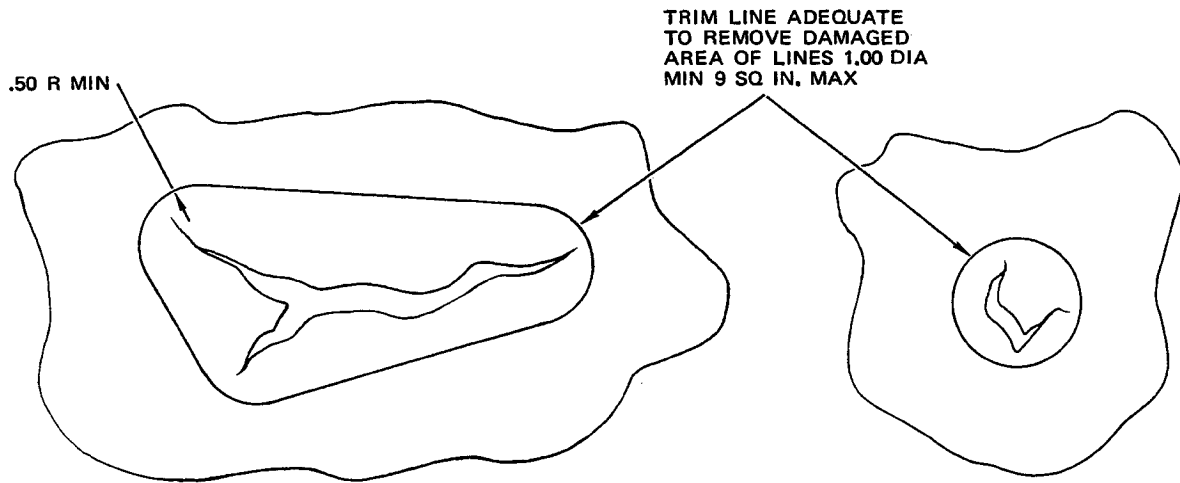
65-62575-1,-21,-22,-29,-31,-32,-45  
65C36935-6,-9,-10  
65C36936-3,-6,-8  
65C36937-10

Muffler Repair and Replacement  
Figure 1 (Sheet 1)

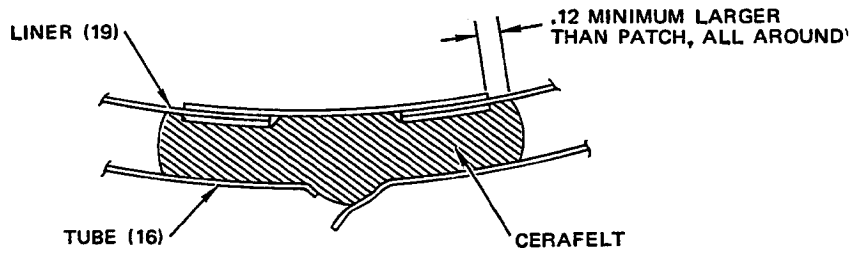


65-62575-33,-35,-46

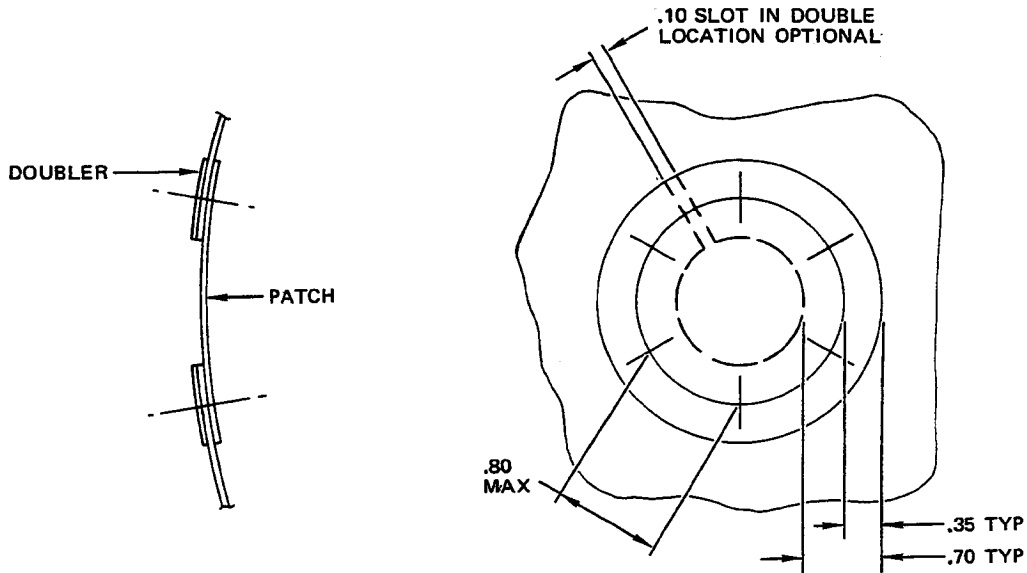
Muffler Repair and Replacement  
Figure 1 (Sheet 2)



**DETAIL A**



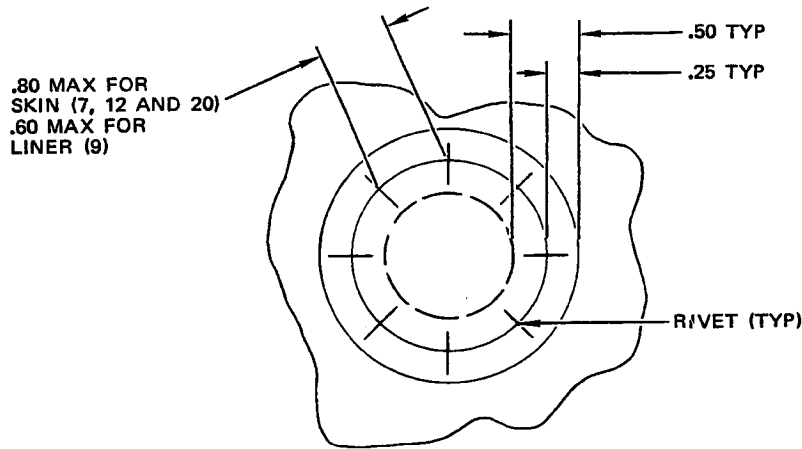
**DETAIL B**



**REPAIR PATCH FOR TUBE (16) AND LINER (19)**

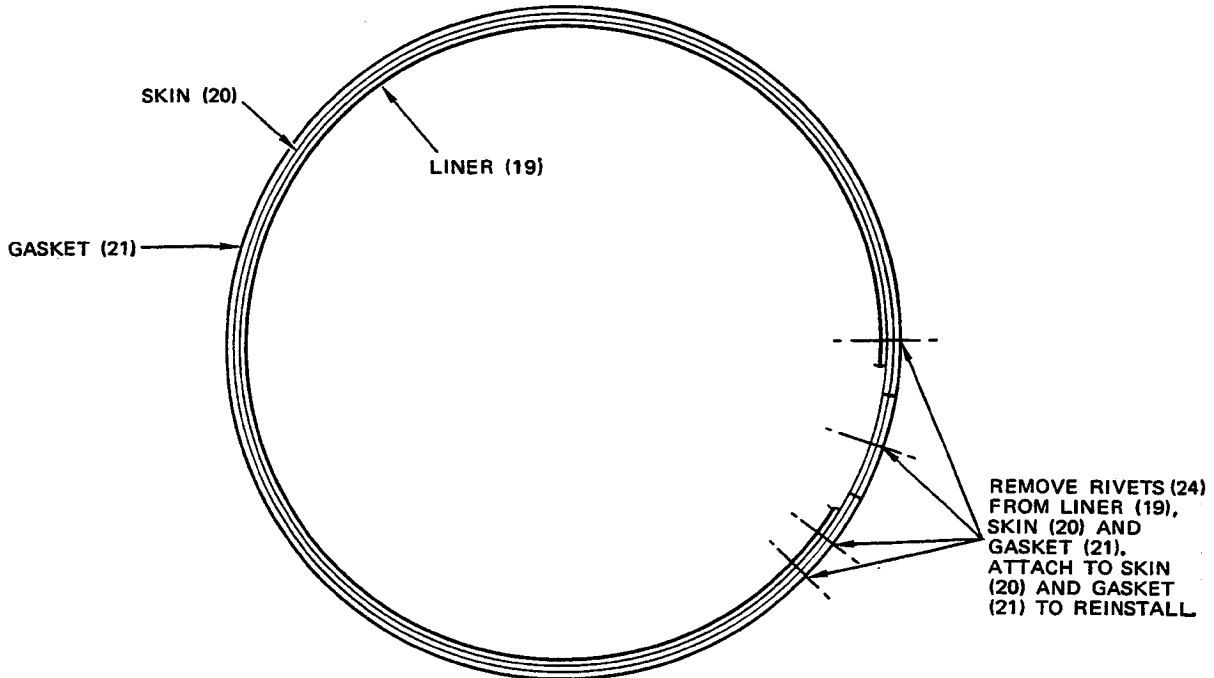
**DETAIL C**

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REPAIR PATCH FOR SKIN (7, 12 AND 20)  
AND LINER (9).

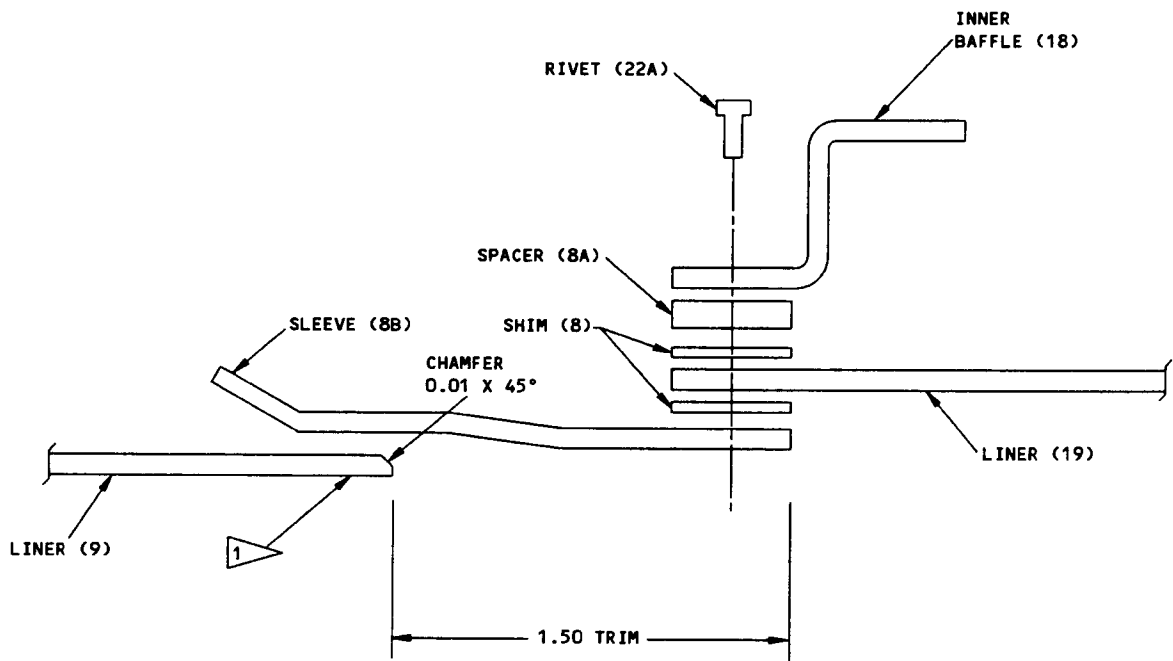
**DETAIL D**



ASSEMBLY 65-62575-1 ONLY

**DETAIL E**

Muffler Repair and Replacement  
Figure 1 (Sheet 4)

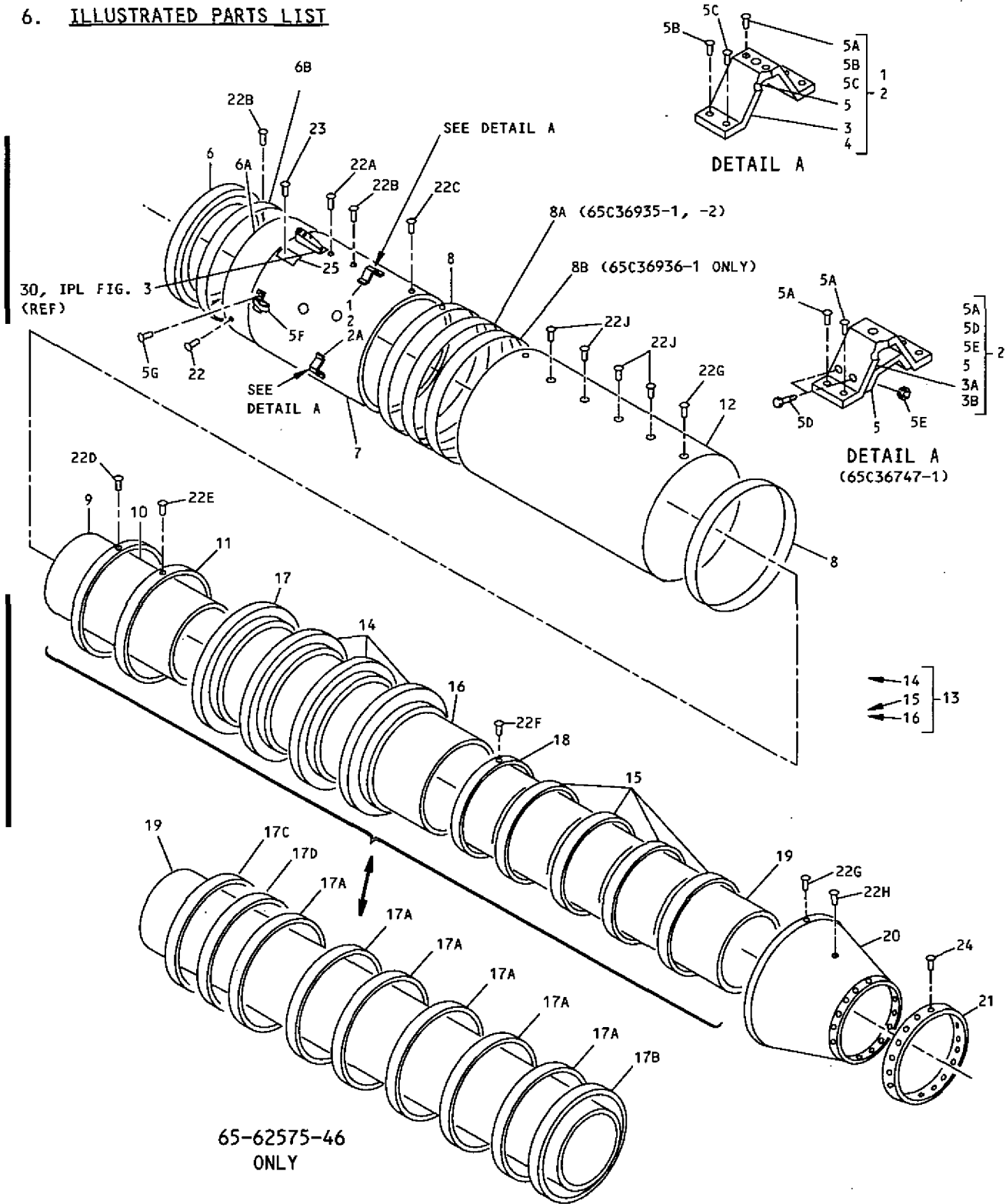


65C36936-1 MUFFLER ASSEMBLY

1 REWORK EXISTING FORWARD LINER (9) 65-62575-10 BY TRIMMING AND CHAMFERING AS SHOWN TO REWORK 65-62575-1,-21,-22,-29,-45 TO A 65C36936-3,-6 OR -8.

Repair and Replacement Diagram  
Figure 1A

6. ILLUSTRATED PARTS LIST



Auxiliary Power Unit Exhaust Duct Muffler Assembly  
Figure 2

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE							USE CODE	QTY PER ASSY
			1	2	3	4	5	6	7		
2-	65-62575-1		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (PRE SB 49-1101, 49-1015)							A	RF
	*[1]		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (POST SB 49-1015) (PRE SB 49-1101)							A	RF
	65-62575-21		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (PRE SB 49-1025, 49-1101)							B	RF
	65-62575-22		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (PRE SB 49-1101)							C	RF
	65-62575-29		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (POST SB 49-1025) (PRE SB 49-1101)							D	RF
	65-62575-45		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (PRE SB 49-1101)							E	RF
	65-62575-46		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY							F	RF
	65C36935-6		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (POST SB 49-1101)*[9]							G	RF
	65C36936-3		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (POST SB 49-1101)*[9]							H	RF
	65C36935-9		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (POST SB 49-1101)*[10]							J	RF
	65C36936-6		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (POST SB 49-1101)*[10]							K	RF
	65C36937-10		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (POST SB 49-1101)*[10]							L	RF
	65C36935-10		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (POST SB 49-1101)*[10]							M	RF
	65C36936-8		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (POST SB 49-1101)*[10]							N	RF
	65-62575-31		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (FOR DETAILS SEE FIG. 3)							P	RF
	65-62575-32		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (FOR DETAILS SEE FIG. 3)							Q	RF
	65-62575-33		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (FOR DETAILS SEE IPL FIG. 3)							R	RF
65-62575-35		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSY (FOR DETAILS SEE IPL FIG. 3)							S	RF	

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE							USE CODE	QTY PER ASSY
			1	2	3	4	5	6	7		
2-1	69-50862-1		.							A-E G-K	2
2	69-50862-2		.							A-E G-K	2
2	65C36747-1		.							FL-N	4
3	69-50862-3		.	.							1
3A	65C36747-2		.	.							1
3A	65C36747-3		.	.							1
3B	65C36747-4		.	.	.						1
3B	65C36747-5		.	.	.						1
4	69-50862-4		.	.							1
5	NAS680C4K		.	.							1
5	BACN10JR4CR		.	.	.						1
5	BACN10JR4CR		.	.	.						1
5A	NAS1398MS5-2		.							F	16
5A	NAS1398MS4-5		.							A-E G-K	8
5A	NAS1398M5-2		.							L-N	16
			ATTACHING PARTS								
5B	NAS1398MW5-2		.							A-E G-K	8
5B	NAS1398C5-2		.							A-E G-K	8
5C	NAS1398MW5-1		.							A-E G-K	8
5C	NAS1398C5-1		.							A-E G-K	8
5D	BACB30LK2U1		.	.						F	4
5E	BACN10JC08CM		.	.						F	4
5F	TA12100004		.							F	4
5F	TA5000BH08AT		DELETED								
5F	TA5000BH08AT		DELETED								
5F	TA5000BH14AT		DELETED								
5G	NAS1398M6-2		.							F	8
5G	NAS1398M6-2		DELETED								
5H	69-67533-1		DELETED								
5J	69-67533-3		DELETED								
5K	BACN10JP3ACM		DELETED								
5L	BACR15CE3M		DELETED								
5M	NAS1398M4-2		DELETED								
5M	NAS1398C4-2		DELETED								
			-----*								
6	65-62575-11		.							ABG-N	1
6	65-62575-24		.							CDE G-N	1
6	65-62575-36		.							F	1
6A	65-62575-30		.							DEG-N	1
6A	65-62575-44		.							F	1
6B	65-62575-40		.							F	1
7	65-62575-9		.							A-E G-N	1

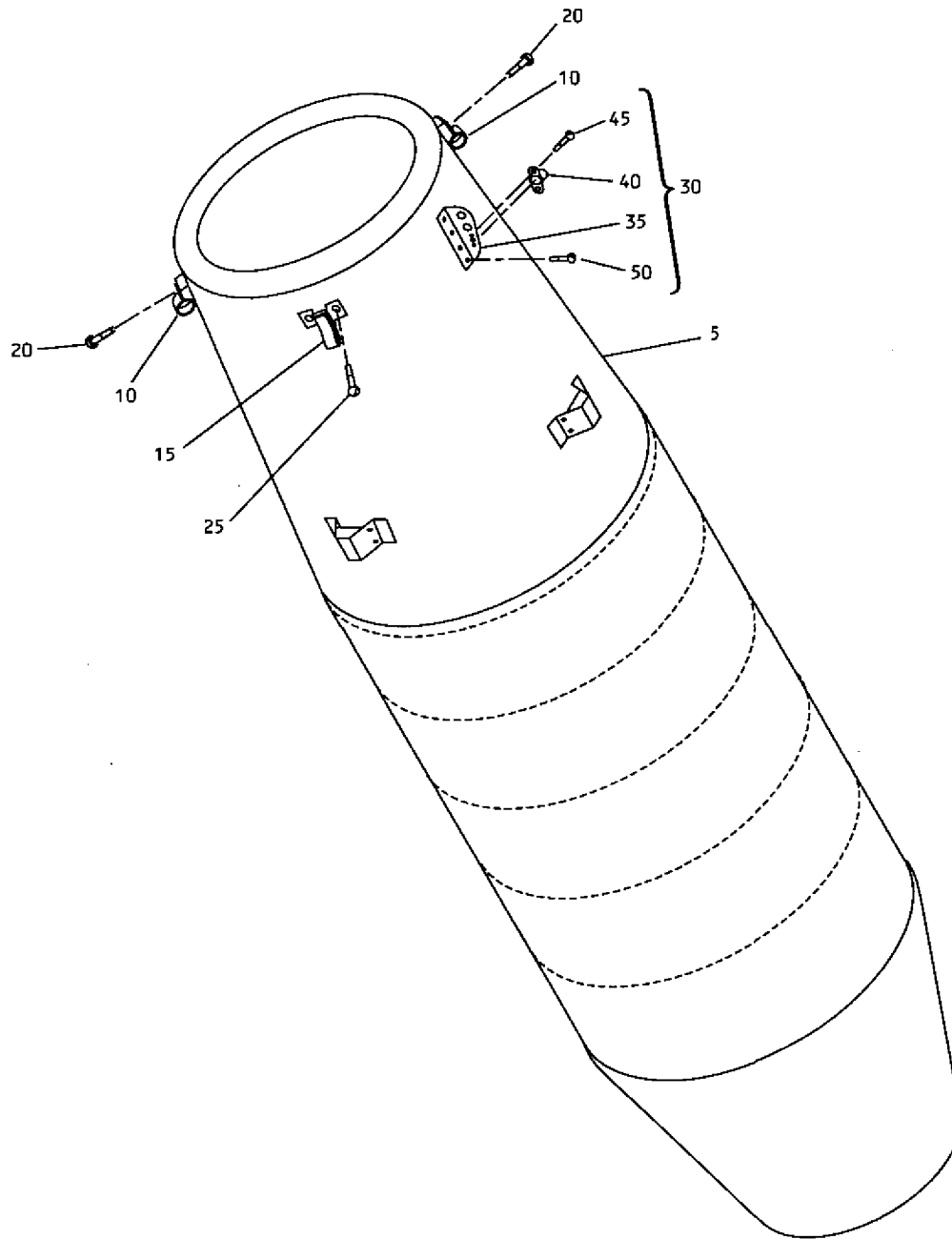


FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE							USE CODE	QTY PER ASSY
			1	2	3	4	5	6	7		
2-7	65-62575-41		.	SKIN, FORWARD						F	1
7A	ERT16AL4V		.	FILLER METAL						F	1
8	65-62575-17		.	SHIM							AR
8	65C36936-4		.	SHIM						G-N	AR
8A	65C36935-5		.	SPACER (OPT)						G-N	1
8A	10-62071-3		.	SPACER (PREF)						G-N	1
8B	65C36936-2		.	SLEEVE						HKN	1
9	65-62575-10		.	LINER						A-E G-N	1
10	65-62575-13		.	STIFFENER						ABG-N	1
10	65-62575-27		.	STIFFENER						CDE G-N	1
11	65-62575-14		.	STIFFENER						ABG-N	1
11	65-62575-26		.	STIFFENER						CDE G-N	1
12	65-62575-7		.	SKIN							1
13	65-62575-2		.	WELD ASSY						ABG-N	1
13	65-62575-23		.	WELD ASSY						CDE G-N	1
14	65-62575-4		.	. BAFFLE, OUTER (USED ON 65-62575-2)							1
14	65-62575-28		.	. BAFFLE, OUTER (USED ON 65-62575-23)							1
15	65-62575-5		.	. BAFFLE, INNER							1
16	65-62575-18		.	. TUBE (REPLD BY 65-62578-3) (USED ON 65-62575-2)							1
16	65-62575-3		.	. TUBE (REPLS 65-62575-18) (USED ON 65-62575-2)							1
16	65-62575-3		.	. TUBE (USED ON 65-62575-23)							1
17	65-62575-15		.	BAFFLE, OUTER						ABG-N	3
17	65-62575-25		.	BAFFLE, OUTER						CDE G-N	1
17A	65-62575-37		.	BAFFLE						F	6
17B	65-62575-38		.	BAFFLE						F	1
17C	65-62575-42		.	BAFFLE						F	1
17D	65-62575-43		.	BAFFLE						F	1
18	65-62575-16		.	BAFFLE, INNER						A-E G-N	1
19	65-62575-6		.	LINER (SUPERSEDES 65-62575-19)						A-E	1
19	65-62575-19		.	LINER (SUPERSEDED BY 65-62575-6)						A-E	1
19	65-62575-39		.	LINER (OPT TO 10-62064-1)						F	1
19	10-62064-1		.	LINER						F	1
19	65C36935-2		.	LINER (OPT TO 10-62071-1,10-62071-2)						G-N	1
19	10-62071-2		.	LINER (OPT TO 10-62071-1)						G-N	1
19	10-62071-1		.	LINER (PREF)						G-N	1

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE							USE CODE	QTY PER ASSY
			1	2	3	4	5	6	7		
2-19	65C36935-3		DELETED								
19	65C36935-6		DELETED								
20	65-62575-8		. SKIN, AFT CONE *[2]*[8]								1
21	65-62575-12		. GASKET (SUPERSEDES 65-62575-20) *[2]*[8]								1
21	65-62575-20		. GASKET (SUPERSEDED BY 65-62575-12)							AG-N	1
22	NAS1398MW4-2		. RIVET							A-D G-N	38
22	NAS1398M4-2		. RIVET							A-D G-N	38
22	NAS1738C4-2		. RIVET							E	38
22	NAS1398M4-2		. RIVET (OPT)							E	38
22	NAS1398C4-2		. RIVET							F	38
22A	NAS1398M4-1		. RIVET							A-E G-N	21
22A	NAS1398MW4-2		. RIVET (OPT)							A-E G-N	21
22A	NAS1398M4-2		. RIVET							F	21
22B	NAS1398M4-1		. RIVET							A-E G-N	23
22B	NAS1398MW4-1		. RIVET (OPT)							A-E G-N	23
22B	NAS1398M4-2		. RIVET							F	23
22C	NAS1398M4-2		. RIVET							A-E	24
22C	NAS1398MW4-2		. RIVET (OPT)							A-E	24
22C	NAS1398M4-1		. RIVET							FG-N	24
22C	NAS1398M5-1		. RIVET (OPT)							FG-N	24
22D	NAS1398M4-2		. RIVET							A-E G-N	19
22D	NAS1398MW4-2		. RIVET (OPT)							A-D G-N	19
22D	NAS1398C4-2		. RIVET (OPT)							EG-N	19
22E	NAS1398M4-2		. RIVET							A-E G-N	19
22E	NAS1398MW4-2		. RIVET (OPT)							A-D G-N	19
22E	NAS1398C4-2		. RIVET (OPT)							EG-N	19
22F	NAS1398M4-2		. RIVET							A-E	19
22F	NAS1398MW4-2		. RIVET (OPT)							A-D	19
22F	NAS1398C4-2		. RIVET (OPT)							EG-N	19
22F	NAS1398C5-2		. RIVET (OPT)							G-N	19
22G	NAS1398M4-2		. RIVET							A-E G-N	24
22G	NAS1398MW4-2		. RIVET (OPT)							A-E G-N	24

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE							USE CODE	QTY PER ASSY
			1	2	3	4	5	6	7		
2-22G	NAS1398M4-1		.	R	I	V	E	T		F	24
22H	NAS1398M4-1		.	R	I	V	E	T		F	22
22J	NAS1398M4-1		.	R	I	V	E	T		F	96
23	NAS1398M4-2		.	R	I	V	E	T		A-E G-N	4
23	NAS1398M4-1		.	R	I	V	E	T		F	4
24	MS20427M3		.	R	I	V	E	T		A	19
25	65-56415-1		.	N	A	M	E	P	L	A	1

- \*[1] NO BOEING PART NUMBER ASSIGNED.
- \*[2] AFT CONE SKIN AND GASKET SPOTWELDED ON MUFFLER ASSYS 65-62575-21, -22, -29, -45, 65C36935-6 AND 65C36936-3.
- \*[3] DELETED
- \*[4] DELETED
- \*[5] DELETED
- \*[6] DELETED
- \*[7] DELETED
- \*[8] AFT CONE SKIN AND GASKET FUSION WELDED ON MUFFLER ASSEMBLY 65-62571-46
- \*[9] 65C36935-6 AND 65C36936-3 ARE REWORKED FROM 65-62575-1, -21, -22, -29 OR -45 PER SERVICE BULLETIN 737-49-1101.
- \*[10] 65C36935-9, 65C36936-6, 65C36937-10, 65C36935-10 AND 65C36936-8 ARE REWORKED FROM 65-62575-1, -21, -22, -29 OR -45 PER SERVICE BULLETIN 737-49-1101, REVISION 2.



Auxiliary Power Unit Exhaust Duct Muffler Assembly  
Figure 3

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE							USE CODE	QTY PER ASSY
			1	2	3	4	5	6	7		
3-	65-62575-31		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSEMBLY							P	RF
	65-62575-32		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSEMBLY							Q	RF
	65-62575-33		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSEMBLY							R	RF
	65-62575-35		AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSEMBLY							S	RF
5	65-62575-29		. AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSEMBLY (SEE FIG. 2 FOR DETAILS)							PQ	1
5	65-62575-46		. AUXILIARY POWER UNIT EXHAUST DUCT MUFFLER ASSEMBLY (SEE FIG. 2 FOR DETAILS)							RS	1
10	TA5000BH08AT		. CLAMP							PQ	4
15	TA5000BH08AT		. CLAMP							P	1
15	TA5000BH14AT		. CLAMP							Q	1
15	TA12100004		. CLAMP							R	1
15	TA5000BH14AT		. CLAMP							S	1
15	TA5000BH14HB		. CLAMP (OPT)							S	1
20	NAS1398M6-2		. RIVET							PQ	8
25	NAS1398M6-2		. RIVET								2
30	69-67533-1		. BRACKET ASSEMBLY							P	1
30	69-67533-7		. BRACKET ASSEMBLY							R	1
35	69-67533-3		. . BRACKET (USED ON 69-67533-1)								1
35	69-67533-8		. . BRACKET (USED ON 69-67533-7)								1
40	BACN10JP3ACM		. . NUTPLATE								1
45	BACR15CE3M		. . RIVET								2
50	NAS1398M4-2		. RIVET							PQ	4