



AIRCRAFT MAINTENANCE MANUAL

APU MOUNTING SUPPORT ASSY - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the APU Mounting Support Assembly.
- B. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
49-12-04-000-801-A	APU MOUNTING SUPPORT ASSEMBLY - ALL REMOVAL	
49-12-04-400-801-A	APU MOUNTING SUPPORT ASSEMBLY - ALL INSTALLATION	



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 49-12-04-000-801-A

EFFECTIVITY: ALL

2. APU MOUNTING SUPPORT ASSEMBLY - REMOVAL

A. General

- (1) The APU mounting support assembly is attached to the fuselage at five points. It is made up of a lower mounting assembly and an upper support assembly.
 - (a) The lower mounting assembly is attached to the fuselage at four points.
 - (b) The upper support assembly is attached to the fuselage at only one point.

B. References

REFERENCE	DESIGNATION
AMM MPP 49-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 49-10-01-000-801-A/400	AUXILIARY POWER UNIT (APU) - REMOVAL
AMM TASK 49-14-01-000-801-A/400	AUXILIARY POWER UNIT (APU) - REMOVAL
S.B.145-49-0031	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
311		Rear electronic compartment - LH
312		Rear electronic compartment - RH
313	313	Aircraft tail cone

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the work area	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
2	Do the task	Aircraft tail cone and rear electronic compartment



I. Preparation

SUBTASK 841-002-A

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN (AMM MPP 49-00-00/200) TO PREVENT INJURY TO THE PERSONS AND DAMAGE TO THE MATERIAL.

- (1) Remove the APU (AMM TASK 49-10-01-000-801-A/400 or AMM TASK 49-14-01-000-801-A/400), as applicable.

J. Removal (Figure 401) (Figure 402)

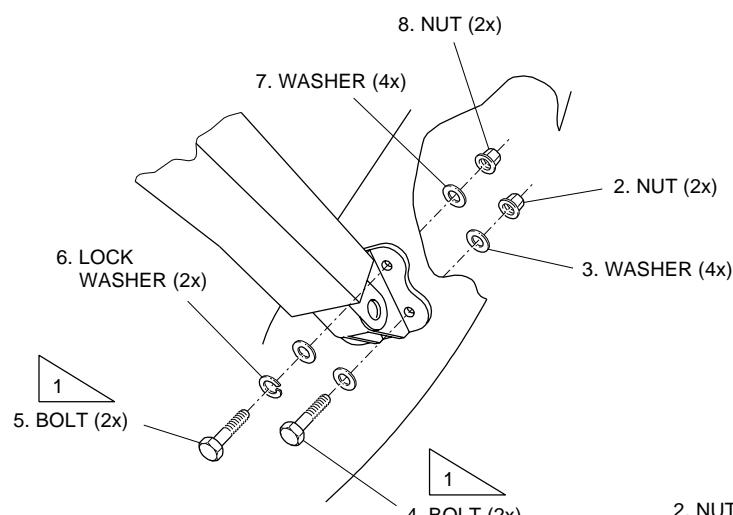
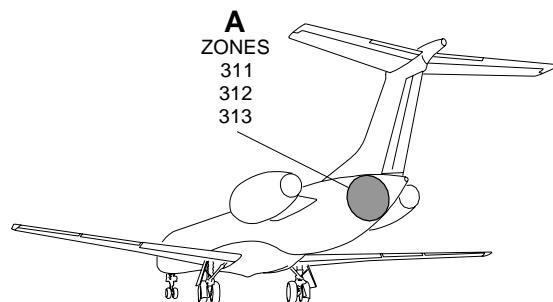
SUBTASK 020-002-A

- (1) Remove the nuts (2), washers (3), and bolts (4).
- (2) Remove the nut (8), washers (7), lock washers (6), and bolts (5).
- (3) For aircraft POST-MOD S.B.145-49-0031, refer to DET. F of [Figure 402](#):
 - (a) Remove the nuts (22), washers (21), bolts (19), and washers (20) to release the APU bleed support (18) and the auxiliary link.
- (4) Remove the lower mounting assembly (1).
- (5) Remove the nut (10), washers (11), lock washer (13), and bolt (14) to remove the bonding wire (12) from the firewall. Refer to DET. E of [Figure 401](#) or [Figure 402](#), as applicable.
- (6) Remove the nuts (17), washers (16), and bolts (15).
- (7) Remove the upper support assembly (9).

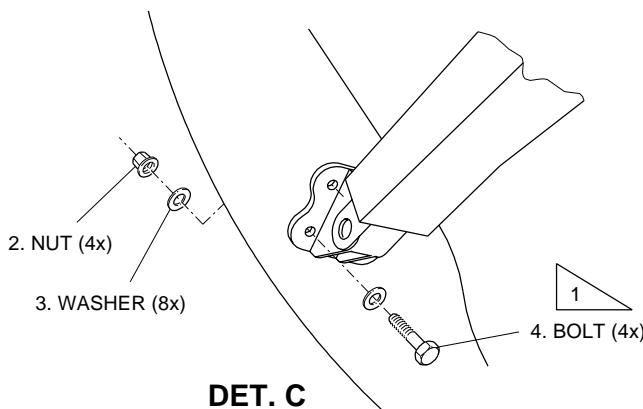
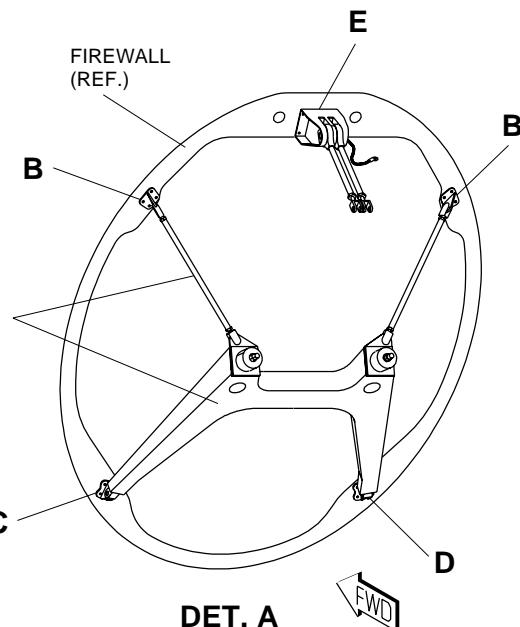
EFFECTIVITY: PRE-MOD S.B. 145-49-0031

APU Mounting Support Assembly - Removal/Installation

Figure 401 - Sheet 1

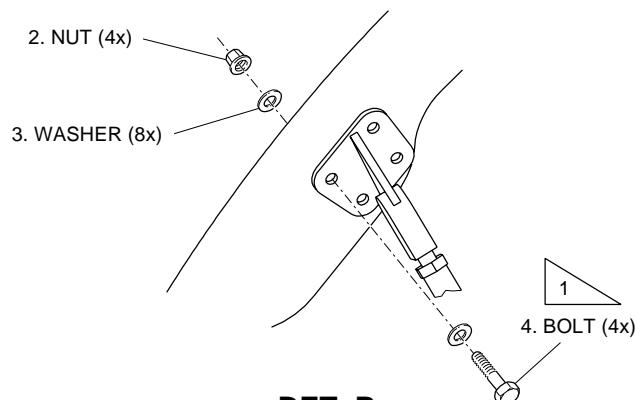


DET. D



DET. C

TORQUE: 2.8 N.m (25 lb.in)

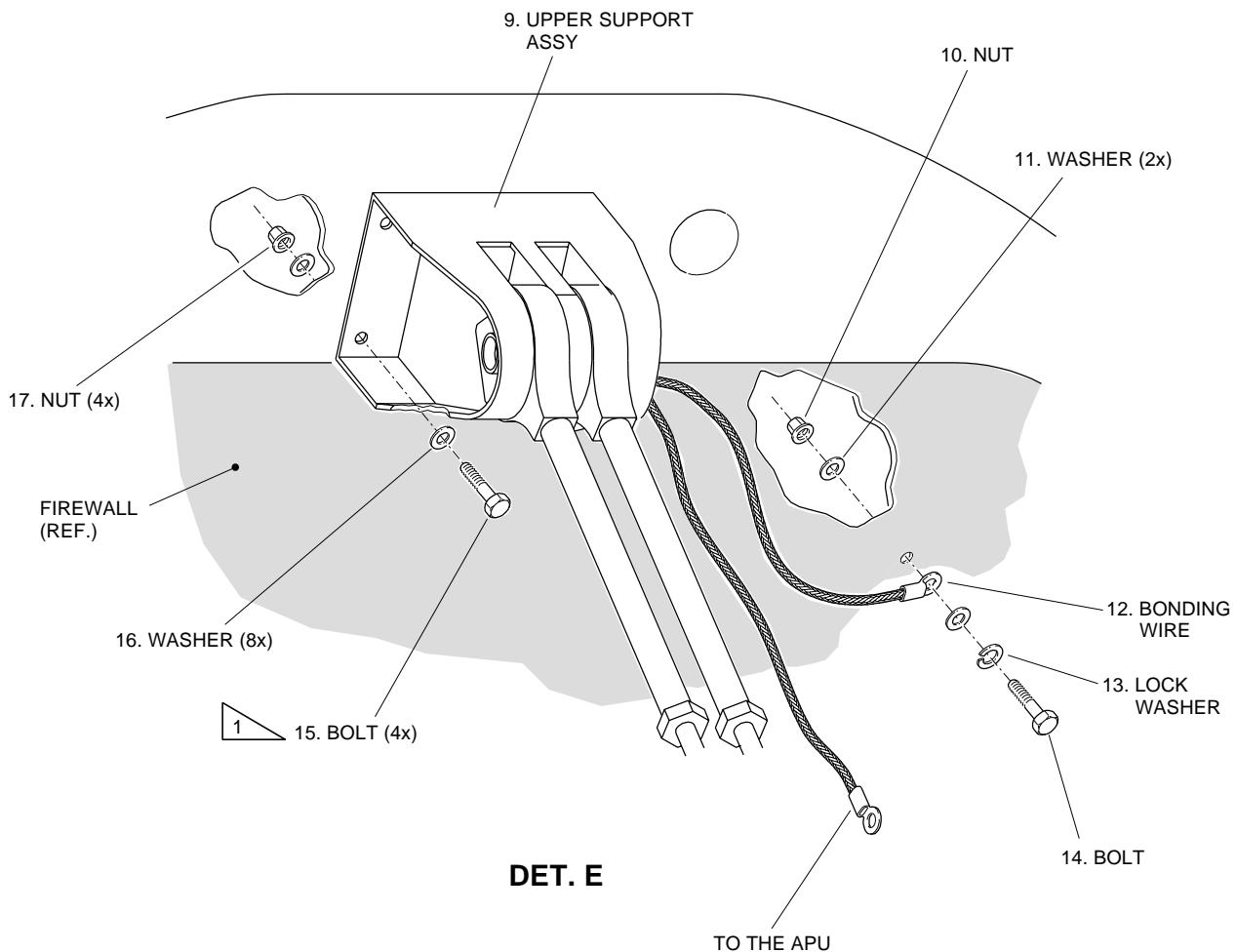


**DET. B
(TYPICAL)**

EFFECTIVITY: PRE-MOD S.B. 145-49-0031

APU Mounting Support Assembly - Removal/Installation

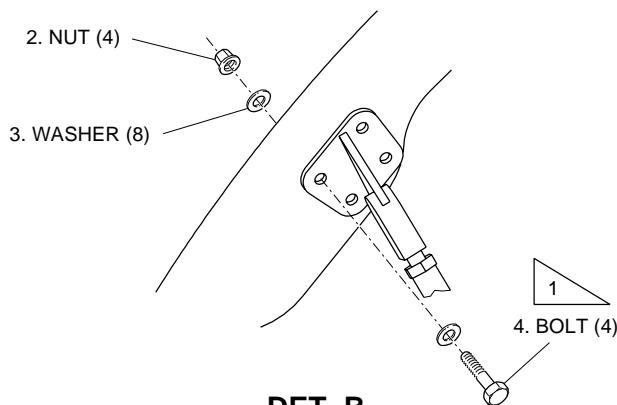
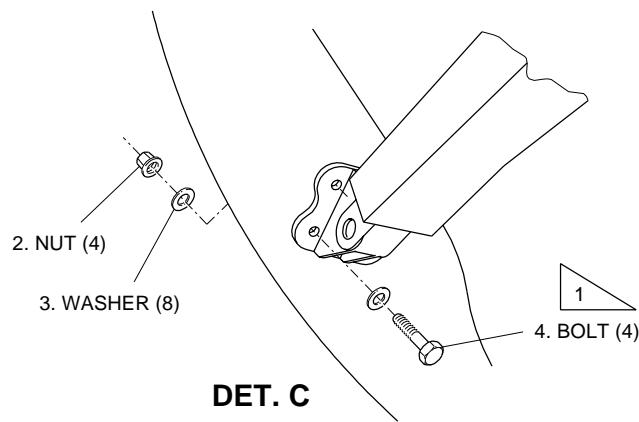
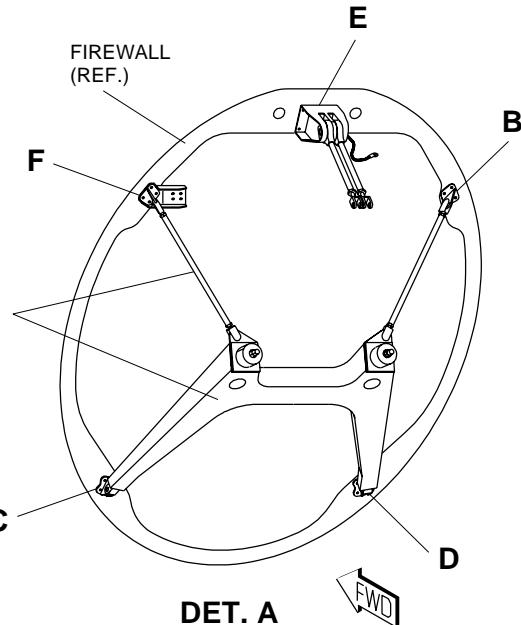
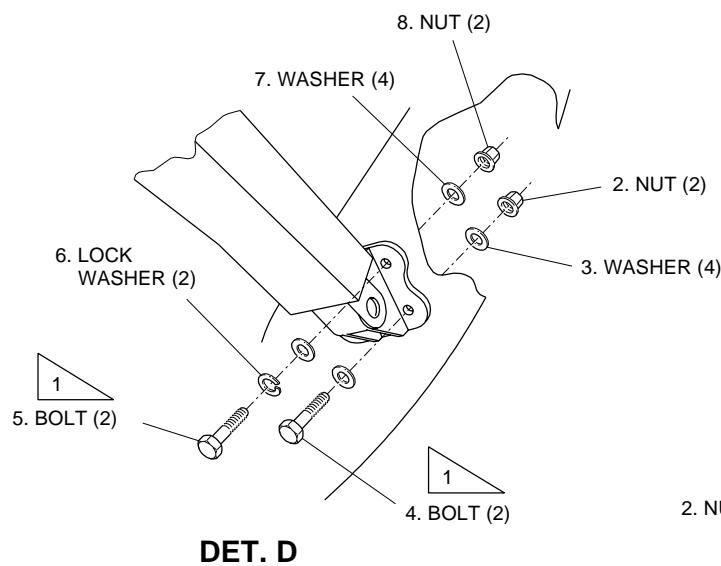
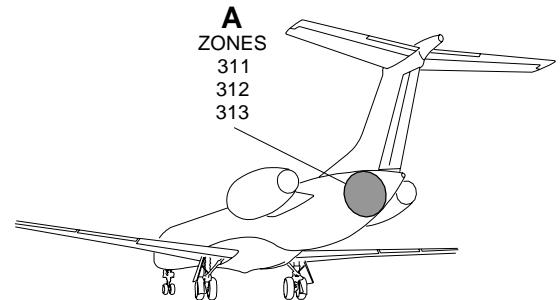
Figure 401 - Sheet 2



TORQUE: 2.3 – 2.8 N.m (20 – 25 lb.in)

EM145AMM490319A.DGN

EFFECTIVITY: POST-MOD S.B. 145-49-0031
APU Mounting Support Assembly - Removal/Installation
Figure 402 - Sheet 1



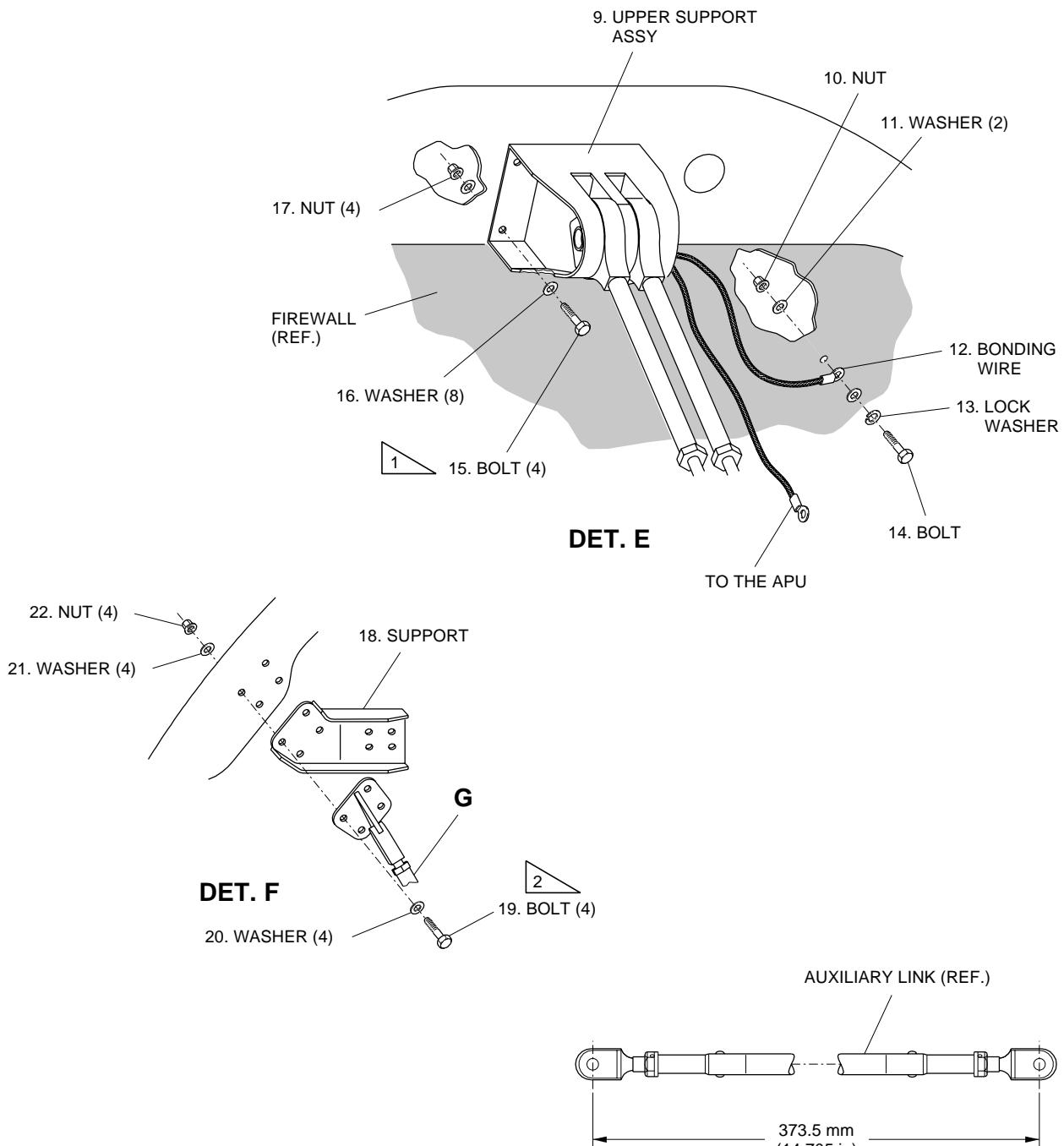
1. TRIANGLE INDICATOR
TORQUE: 2.8 N.m (25 lb.in)

RD145AMM490001A.DGN

EFFECTIVITY: POST-MOD S.B. 145-49-0031

APU Mounting Support Assembly - Removal/Installation

Figure 402 - Sheet 2



1 TORQUE: 2.3 – 2.8 N.m (20 – 25 lb.in)

2 TORQUE: 2.8 N.m (25 lb.in)

RD145AMM490002B.DGN



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TASK 49-12-04-400-801-A

EFFECTIVITY: ALL

3. APU MOUNTING SUPPORT ASSEMBLY - INSTALLATION

A. General

- (1) Obey these instructions to install the APU mounting support assembly.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-13-21-700-801-A/200	ELECTRICAL BONDING TEST - STANDARD PROCEDURES
AMM TASK 20-13-21-910-801-A/200	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
AMM TASK 20-13-21-910-802-A/200	ELECTRICAL BONDING PROTECTION - STANDARD PROCEDURES
AMM TASK 49-10-01-400-801-A/400	AUXILIARY POWER UNIT (APU) - INSTALLATION
AMM TASK 49-14-01-400-801-A/400	AUXILIARY POWER UNIT (APU) - INSTALLATION
S.B.145-49-0031	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
311		Rear electronic compartment - LH
312		Rear electronic compartment - RH
313	313	Aircraft tail cone

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque Wrench	To tighten the attachment bolts	

E. Auxiliary Items

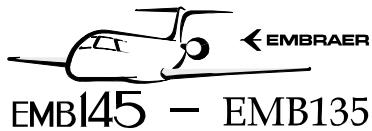
ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the work area	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-S-81733 Type IV-12	Sealant P/S 870C-12	AR

G. Expandable Parts

Not Applicable



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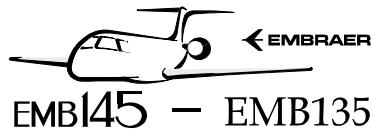
H. Persons Recommended

QTY	FUNCTION	PLACE
2	Do the task	Aircraft tail cone and rear electronic compartment

I. Installation (Figure 401) (Figure 402)

SUBTASK 420-002-A

- (1) Put the lower mounting assembly (1) in position.
- (2) For aircraft POST-MOD [S.B.145-49-0031](#), refer to DET. F of (Figure 402):
 - (a) Install the washers (20), bolts (19), washers (21), and nuts (22) to attach the APU bleed support (18) and the auxiliary link.
 - (b) Apply the final torque to the bolts (19). Refer to (Figure 402) for the torque values.
- (3) Install the bolts (4), washers (3), and nuts (2).
- (4) Apply the final torque to the bolts (4). Refer to (Figure 401) or (Figure 402) for the torque values.
- (5) Do the bonding procedures by method 3 ([AMM TASK 20-13-21-910-801-A/200](#)). Refer to DET. D of (Figure 401) or (Figure 402), as applicable.
- (6) Install the bolts (5), lock washers (6), washers (7), and nuts (8).
- (7) Apply the final torque to the bolts (5). Refer to (Figure 401) or (Figure 402) for the torque values.
- (8) Do the bonding test ([AMM TASK 20-13-21-700-801-A/200](#)).
- (9) Do the bonding protection ([AMM TASK 20-13-21-910-802-A/200](#)).
- (10) Apply sealant P/S 870C-12 to the base of the upper support assembly (9).
- (11) Put the upper support assembly (9) in position.
- (12) Install the bolts (15), washers(16), and nuts (17).
- (13) Apply the final torque to the bolts (15). Refer to (Figure 401) or (Figure 402) for the torque values.
- (14) Do the bonding procedures by method 7 ([AMM TASK 20-13-21-910-801-A/200](#)). Refer to DET. E of (Figure 401) or (Figure 402), as applicable.
- (15) Install the bonding wire (12) on the firewall with the bolt (14), lock washer (13), washers (11), and nut (10).
- (16) Tighten the bolt (14).
- (17) Do the bonding test ([AMM TASK 20-13-21-700-801-A/200](#)).
- (18) Do the bonding protection ([AMM TASK 20-13-21-910-802-A/200](#)).



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J. Follow-on

SUBTASK 842-002-A

- (1) Install the APU ([AMM TASK 49-10-01-400-801-A/400](#) or [AMM TASK 49-14-01-400-801-A/400](#)), as applicable.