

**BLEED-AIR SERVO LINE - REMOVAL/INSTALLATION**

**EFFECTIVITY: ACFT MODEL(S) EMB-135**

**1. General**

- A. This section gives the procedures to remove and install the left and right bleed-air servo lines.
- B. Each bleed-air servo line connects the fan-air valve to the related fan-air control thermostat.
- C. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

<b>TASK NUMBER</b>	<b>DESCRIPTION</b>	<b>EFFECTIVITY</b>
36-11-11-000-801-A	BLEED-AIR SERVO LINE - REMOVAL	ACFT MODEL(S) EMB-135
36-11-11-400-801-A	BLEED-AIR SERVO LINE - INSTALLATION	ACFT MODEL(S) EMB-135



# AIRCRAFT MAINTENANCE MANUAL

TASK 36-11-11-000-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-135

## 2. BLEED-AIR SERVO LINE - REMOVAL

### A. General

- (1) This task gives the procedure to remove the right and left bleed-air servo lines.
- (2) A bleed-air servo line connects the fan-air valve to the related fan-air control thermostat.
- (3) The LH (RH) fan-air valve is installed in the LH (RH) pylon and the LH (RH) fan-air control thermostat is installed below the LH (RH) baggage compartment floor.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM MPP 06-41-05/100	- COMPONENT LOCATION
AMM MPP 06-43-00/100	- COMPONENT LOCATION
AMM TASK 25-51-01-000-801-A/400	BAGGAGE COMPARTMENT LINING - REMOVAL
AMM TASK 36-11-09-300-801-A/200	THERMAL INSULATION OF THE DUCT LINES OF AIR BLEED SYSTEM - REPAIR
AMM TASK 53-01-03-000-801-A/400	BAGGAGE-COMPARTMENT FLOOR PANELS - REMOVAL

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
271	271ALW	Lining of the baggage compartment
272	272ARW	Lining of the baggage compartment
271	271AF	Floor panel of the baggage compartment
272	272AF	Floor panel of the baggage compartment
414	414AB	LH Pylon
414	414BB	LH Pylon
414	414CB	LH Pylon
414	414DB	LH Pylon
424	424AB	RH Pylon
424	424BB	RH Pylon
424	424CB	RH Pylon
424	424DB	RH Pylon

### D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the baggage compartment work area	1
Commercially available	Workstand	To get access to the work area in the pylon	1
Commercially available	Protective caps or plugs	To prevent contamination of open lines	AR

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Baggage compartment and pylon work area

I. Preparation

SUBTASK 841-009-B

**WARNING: YOU MUST REMOVE THE PRESSURE FROM THE PNEUMATIC DUCTS BEFORE YOU REMOVE A PNEUMATIC SYSTEM COMPONENT. HOT HIGH PRESSURE AIR CAN CAUSE INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT.**

- (1) Do the procedure to make the aircraft safe for maintenance.
- (2) Make sure that there is no pressure in the bleed-air servo lines.
- (3) Put the workstand in a position in which you can get access to the work area in the pylon.
- (4) Remove the access panels of the bleed-air servo line installed:
  - (a) On the left pylon: 414AB, 414BB, 414CB, and 414DB ([AMM MPP 06-43-00/100](#)).
  - (b) On the right pylon: 424AB, 424BB, 424CB, and 424DB ([AMM MPP 06-43-00/100](#)).
- (5) Put the workstand in a position in which you can get access to the baggage compartment.
- (6) Remove access panels 271ALW (left), and 272ARW (right) to get access to the bleed-air servo lines installed on the laterals of the baggage compartment ([AMM MPP 06-41-05/100](#) and [AMM TASK 25-51-01-000-801-A/400](#)).



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- (7) Remove the access panels 271AF, and 272AF to get access to bleed-air servo lines installed below the floor of the baggage compartment (AMM MPP 06-41-02/100 and [AMM TASK 53-01-03-000-801-A/400](#)).

J. Removal ([Figure 401](#)) ([Figure 402](#))

SUBTASK 020-009-B

**WARNING: DO NOT TOUCH THE BLEED-AIR SYSTEM DUCTS OR COMPONENT IMMEDIATELY AFTER ENGINE STOPS. THE HOT, HIGH-PRESSURE AIR CAN CAUSE INJURY TO PERSONS.**

- (1) To remove the segment of the bleed-air servo lines installed in the left pylon ([Figure 401](#), sheet 2), do as follows:

- (a) Remove the hose (6) as follows:

1 **NOTE:** Hold the fitting of fan-air valve (7) with a wrench while you disconnect the hose (6).

Disconnect the hose (6) from the fan-air valve (7).

2 Disconnect the hose (6) from the fitting (5).

3 Remove the hose (6).

4 Install protective caps or plugs to the hose (6) and fitting of the fan-air valve (7).

- (b) Remove the tube (1) as follows:

1 Disconnect the tube (1) from the fittings (5) and (8).

2 Remove the tube (1).

3 Install protective caps or plugs to the tube (1).

- (c) Remove the fitting (5) as follows:

1 Remove the nut (2) and washer (3) that attach the fitting (5) to the support.

2 Remove the fitting (5) and washer (4).

- (2) To remove the segment of the bleed-air servo lines installed on the baggage compartment ([Figure 401](#), sheet 3), do as follows:

**NOTE:** Some bleed-air servo lines installed on the baggage compartment have a protection of thermal insulation. If the thermal insulation is damaged, refer to [AMM TASK 36-11-09-300-801-A/200](#). The outside diameter of the servo line plus the thermal insulation is  $16 \pm 2$  mm (0.63  $\pm$  0.08 in).

- (a) Remove the tube (12) as follows:

1 Remove the bolt (13) and washer (14) that attach the clamp (15) to the support.

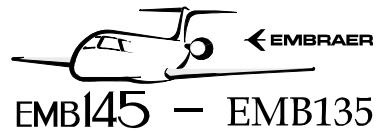
2 Remove the clamp (15) from the tube (12).

- 3 Disconnect the tube (12) from the fittings (8) and (31).
  - 4 Remove the tube (12).
  - 5 Install protective caps or plugs to the tube (12).
- (b) Remove the fitting (8) as follows:
- 1 Remove the nut (9) and washer (10) that attach the fitting (8) to the fuselage wall.
  - 2 Remove the fitting (8) and washer (11).
- (c) Remove the tube (30) as follows:
- 1 Remove the bolt (27) and washer (28) that attach the clamp (29) to the support.
  - 2 Remove the clamp (29) from the tube (30).
  - 3 Disconnect and remove the fitting (31) from the tube (30).
  - 4 Disconnect the tube (30) from the fitting (26).
  - 5 Remove the tube (30).
  - 6 Install protective caps or plugs to the tube (30).
- (d) Remove the tube (25) as follows:
- 1 Remove the bolt (23) and washer (24) that attach the clamp (22) to the support.
  - 2 Remove the bolt (19) and washer (20) that attach the clamp (21) to the support.
  - 3 Remove the clamps (22) and (21) from the tube (25).
  - 4 Disconnect and remove the fitting (26) from the tube (25).
  - 5 Disconnect the tube (25) from the restrictor (18).
  - 6 Remove the tube (25).
  - 7 Install protective caps or plugs to the tube (25).
- (e) Remove the hose (17) as follows:
- 1 Disconnect and remove the restrictor (18) from the hose (17).
  - 2 **NOTE:** Hold the fitting of the fan-air control thermostat (16) with a wrench while you disconnect the hose (17).  
Disconnect the hose (17) from the fan-air control thermostat (16).
  - 3 Remove the hose (17).

- 4 Install protective caps or plugs to the hose (17) and the fitting of fan-air control thermostat (16).
- (3) To remove the segment of the bleed-air servo lines installed in the right pylon ([Figure 402](#), sheet 2), do as follows:
- (a) Remove the tube (2) as follows:
    - 1 Remove the nut (7), the washers (6) and (4) and bolt (3) that attach the clamp (5) to the other clamp.
    - 2 Remove the clamp (5) from the tube (2).
    - 3 **NOTE:** Hold the fitting of the fan-air valve (1) with a wrench while you disconnect the tube (2).  
Disconnect the tube (2) from the fan-air valve (1).
    - 4 Disconnect the tube (2) from the fitting (8).
    - 5 Remove the tube (2).
    - 6 Install protective caps or plugs to the tube (2) and fitting of the fan-air valve (1).
  - (b) Remove the tube (9) as follows:
    - 1 Disconnect and remove the fitting (8) from the tube (9).
    - 2 Disconnect the tube (9) from the fitting (10).
    - 3 Remove the tube (9).
    - 4 Install protective caps or plugs to the tube (9).
  - (c) Remove the tube (14) as follows:
    - 1 Disconnect the tube (14) from the fittings (10) and (15).
    - 2 Remove the tube (14).
    - 3 Install protective caps or plugs to the tube (14).
  - (d) Remove the fitting (10) as follows:
    - 1 Remove the nut (13) and washer (12) that attach the fitting (10) to the support.
    - 2 Remove the fitting (10) and washer (11).

- (4) To remove the segment of the bleed-air servo lines installed on the baggage compartment ([Figure 402](#), sheet 3), do as follows:

**NOTE:** Some bleed-air servo lines installed on the baggage compartment have a protection of thermal insulation. If the thermal insulation is damaged, refer to [AMM TASK 36-11-09-300-801-A/200](#). The outside diameter of the servo line plus the thermal insulation is  $16 \pm 2$  mm ( $0.63 \pm 0.08$  in).



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- (a) Remove the tube (22) as follows:
  - 1 Remove the bolt (19) and washer (20) that attach the clamp (21) to the support.
  - 2 Remove the clamp (21) from the tube (22).
  - 3 Disconnect the tube (22) from the fittings (15) and (23).
  - 4 Remove the tube (22).
  - 5 Install protective caps or plugs to the tube (22).
- (b) Remove the fitting (15) as follows:
  - 1 Remove the nut (16) and washer (17) that attach the fitting (15) to the fuselage wall.
  - 2 Remove the fitting (15) and washer (18).
- (c) Remove the tube (27) as follows:
  - 1 Remove the bolt (25) and washer (24) that attach the clamp (26) to the support.
  - 2 Remove the clamp (26) from the tube (27).
  - 3 Disconnect and remove the fitting (23) from the tube (27).
  - 4 Disconnect the tube (27) from the fitting (28).
  - 5 Remove the tube (27).
  - 6 Install protective caps or plugs to the tube (27).
- (d) Remove the tube (32) as follows:
  - 1 Remove the bolt (29) and washer (30) that attach the clamp (31) to the support.
  - 2 Remove the bolt (33) and washer (34) that attach the clamp (35) to the support.
  - 3 Remove the clamps (31) and (35) from the tube (32).
  - 4 Disconnect and remove the fitting (28) from the tube (32).
  - 5 Disconnect the tube (32) from the restrictor (36).
  - 6 Remove the tube (32).
  - 7 Install protective caps or plugs to the tube (32).
- (e) Remove the hose (37) as follows:
  - 1 Disconnect the restrictor (36) from the hose (37).

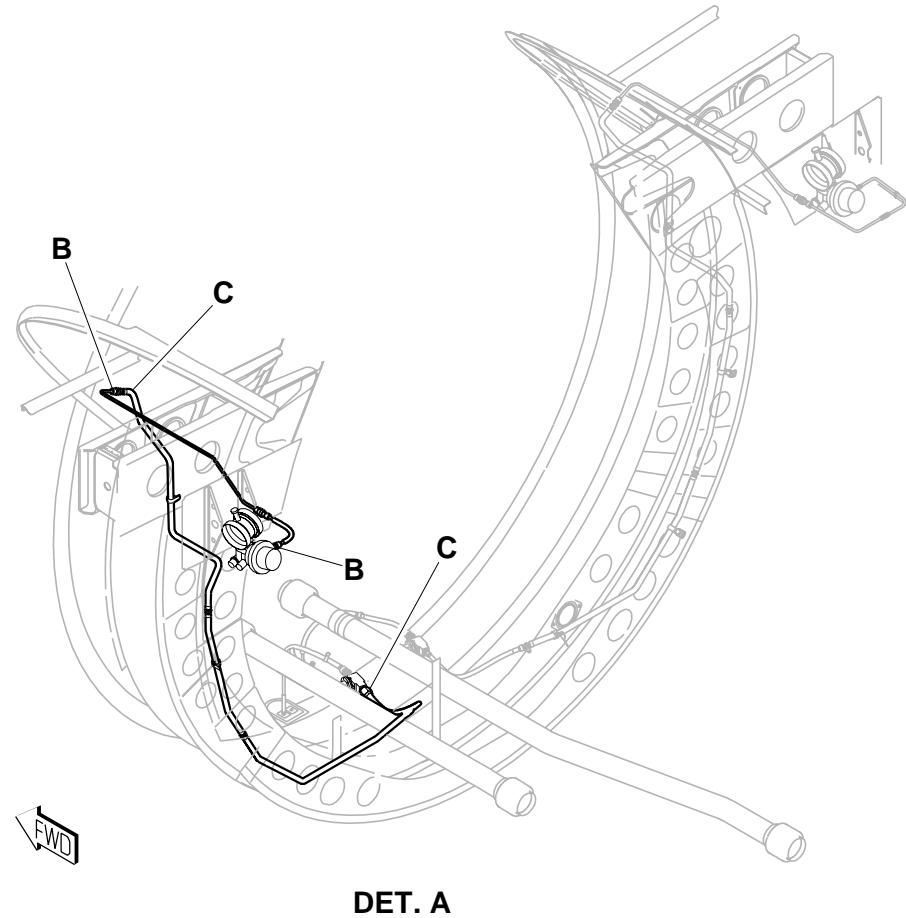
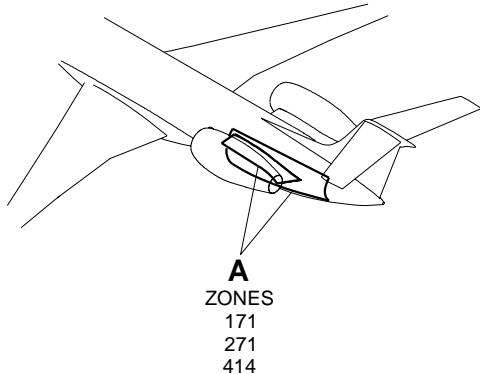
- 2 **NOTE:** Hold the fitting of the fan-air control thermostat (38) with a wrench while you disconnect the hose (37).

Disconnect the hose (37) from the fan-air control thermostat (38).

- 3 Remove the hose (37).

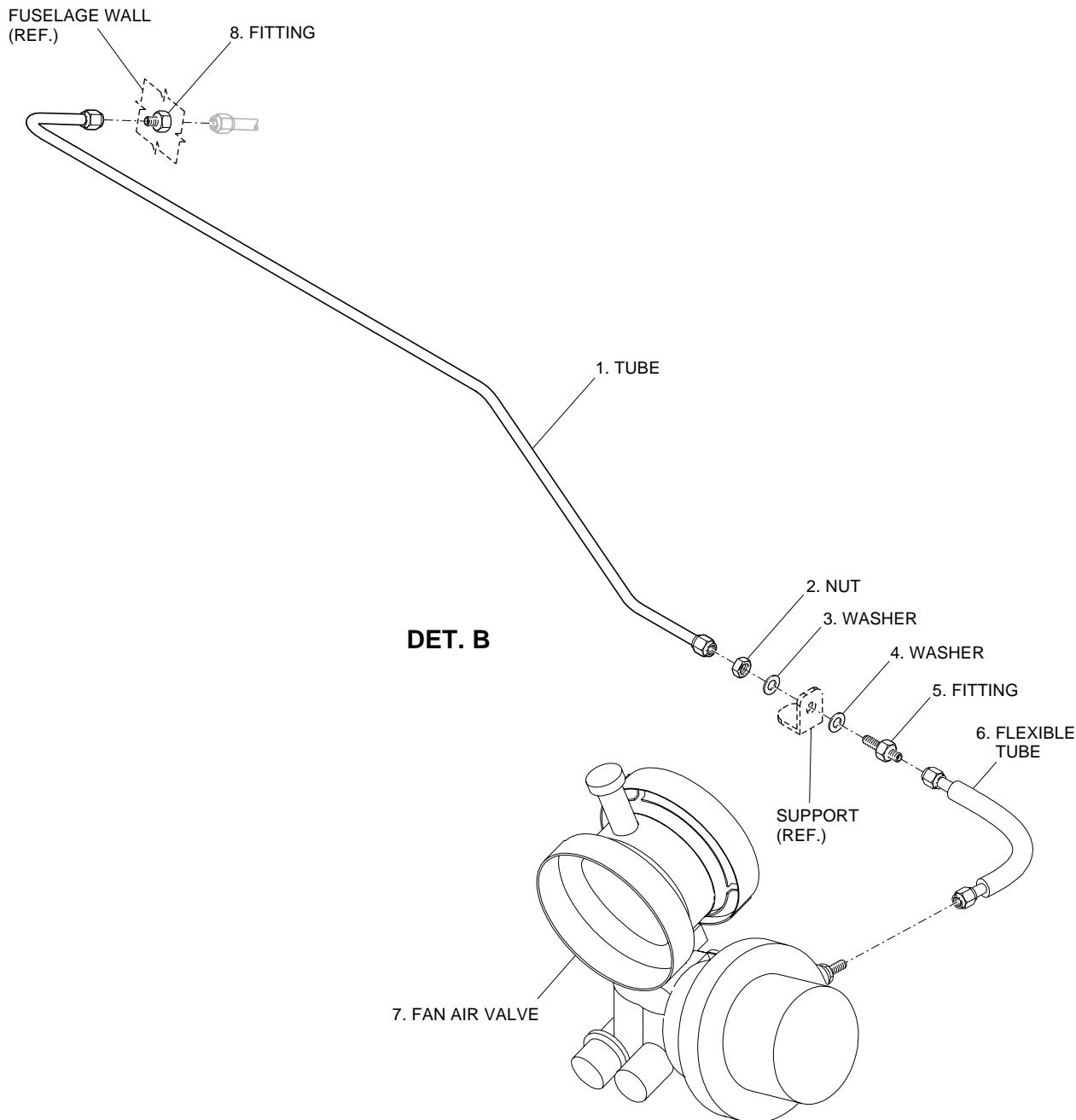
- 4 Install protective caps or plugs to the hose (37) and fitting of the fan-air control thermostat (38).

**EFFECTIVITY: ACFT MODEL(S) EMB-135**  
 Left Bleed-Air Servo Line - Removal/Installation  
 Figure 401 - Sheet 1



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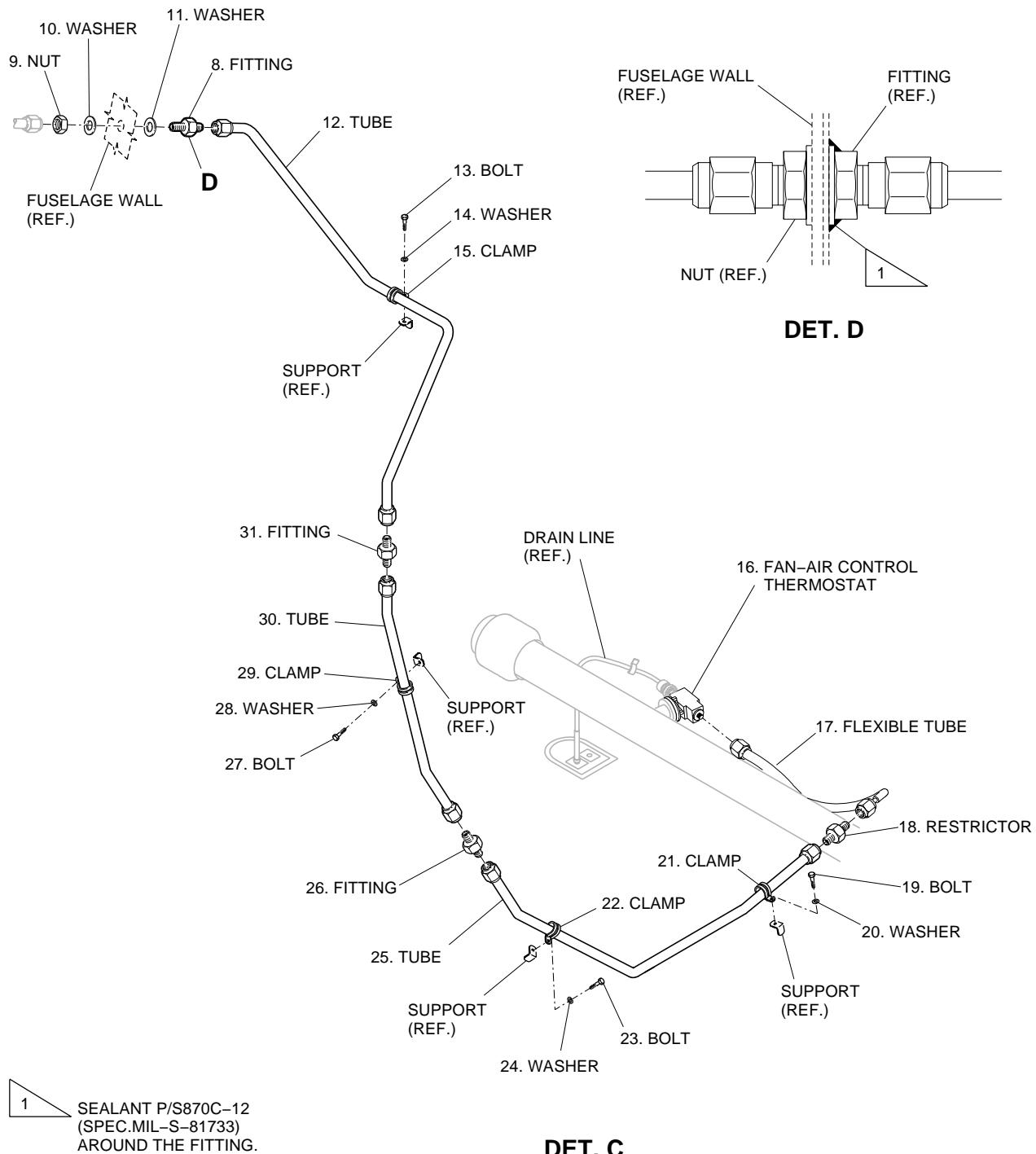
**EFFECTIVITY: ACFT MODEL(S) EMB-135**  
 Left Bleed-Air Servo Line - Removal/Installation  
 Figure 401 - Sheet 2


**NOTES:**

- APPLY TORQUE TO ALL NUTS OF TUBING, FLEXIBLE TUBE, AND FITTINGS. THE TORQUE VALUE MUST BE BETWEEN 15.25 Nm (135 lb.in) AND 16.95 Nm (150 lb.in).
- APPLY GREASE GGA (80TF/B) ON THE CONNECTION THREADS.

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**EFFECTIVITY: ACFT MODEL(S) EMB-135**  
**Left Bleed-Air Servo Line - Removal/Installation**  
**Figure 401 - Sheet 3**

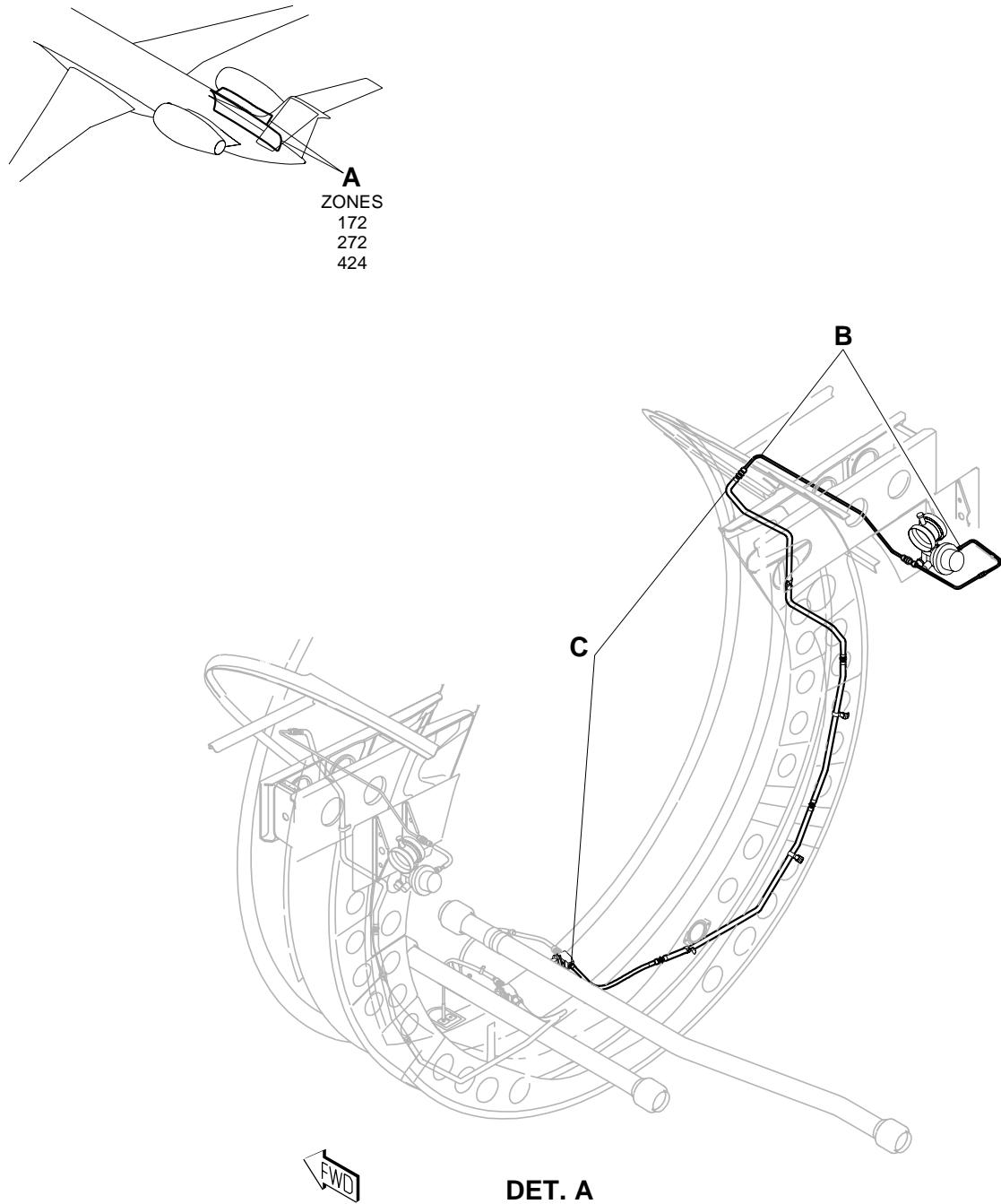


**NOTES:**

- APPLY TORQUE TO ALL NUTS OF TUBINGS, HOSE AND FITTINGS. THE TORQUE VALUE MUST BE BETWEEN 15.25 Nm (135 lb.in) AND 16.95 Nm (150 lb.in).
- APPLY GREASE (GGA 80TF/B) TO THE CONNECTION THREADS.

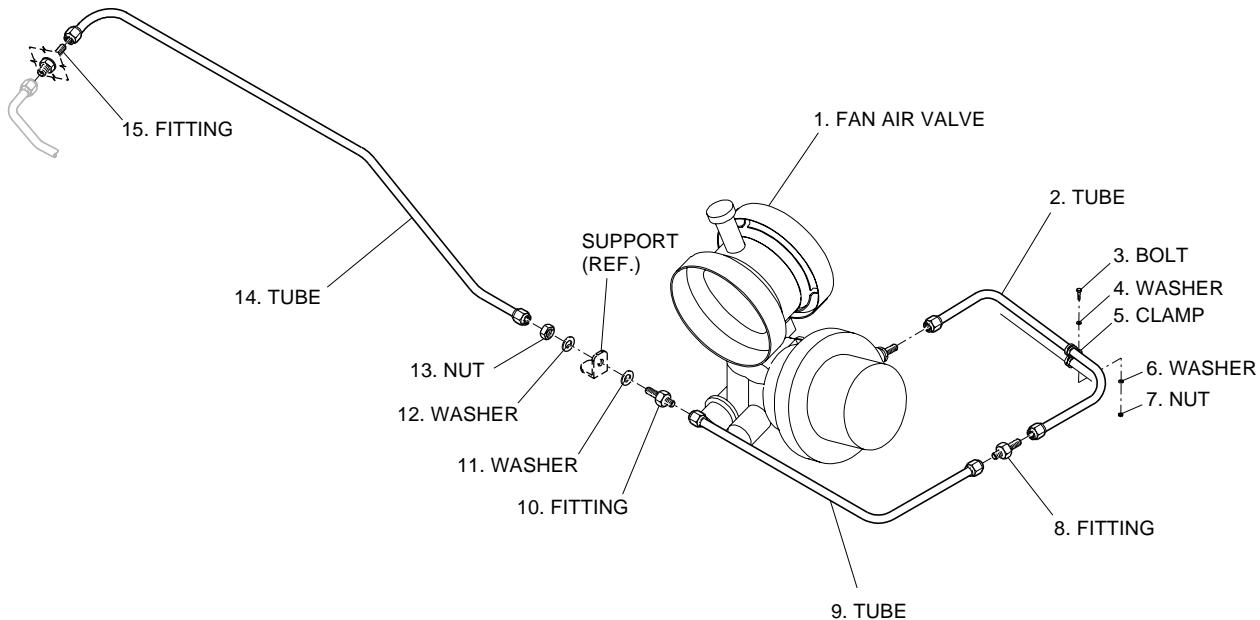
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**EFFECTIVITY: ACFT MODEL(S) EMB-135**  
 Right Bleed Servo Line - Removal/Installation  
 Figure 402 - Sheet 1



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**EFFECTIVITY: ACFT MODEL(S) EMB-135**  
 Right Bleed Servo Line - Removal/Installation  
 Figure 402 - Sheet 2



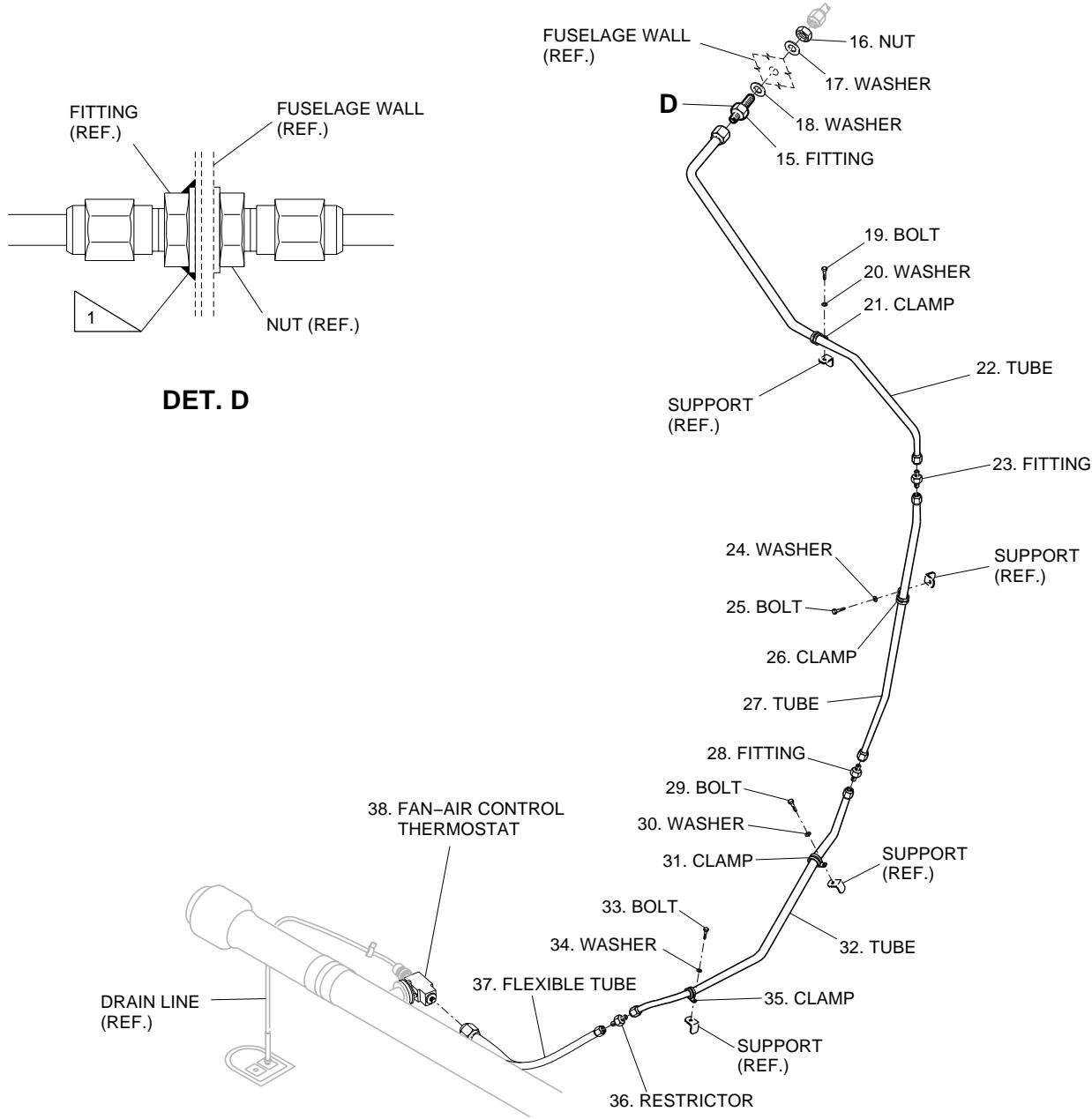
**DET. B**

**NOTES:**

- APPLY TORQUE TO ALL NUTS OF TUBINGS AND FITTINGS. THE TORQUE VALUE MUST BE BETWEEN 15.25 Nm (135 lb.in) AND 16.95 Nm (150 lb.in).
- APPLY GREASE (GGA 80TF/B) TO THE CONNECTION THREADS.

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**EFFECTIVITY: ACFT MODEL(S) EMB-135**  
 Right Bleed Servo Line - Removal/Installation  
 Figure 402 - Sheet 3

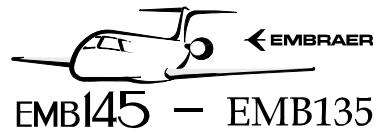


**1** APPLY SEALANT P/S870C-12  
 (SPEC.MIL-S-81733) AROUND  
 THE FITTING.

**NOTES:**

- APPLY TORQUE TO ALL NUTS OF TUBINGS, HOSE AND FITTINGS. THE TORQUE VALUE MUST BE BETWEEN 15.25 Nm (135 lb.in) AND 16.95 Nm (150 lb.in).
- APPLY GREASE (GGA 80TF/B) ON THE FITTING THREADS.

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# AIRCRAFT MAINTENANCE MANUAL

TASK 36-11-11-400-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-135

## 3. BLEED-AIR SERVO LINE - INSTALLATION

### A. General

- (1) This task gives the procedure to install the right and left bleed-air servo lines.
- (2) A bleed-air servo line connects the fan-air valve to the related fan-air control thermostat.
- (3) The LH (RH) fan-air valve is installed in the LH (RH) pylon and the LH (RH) fan-air control thermostat is installed below the LH (RH) baggage compartment floor.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
<a href="#">AMM MPP 06-41-05/100</a>	- COMPONENT LOCATION
<a href="#">AMM MPP 06-43-00/100</a>	- COMPONENT LOCATION
<a href="#">AMM TASK 25-51-01-400-801-A/400</a>	BAGGAGE COMPARTMENT LINING - INSTALLATION
<a href="#">AMM TASK 36-11-11-700-801-A/500</a>	SERVO LINE - ADJUSTMENT/TEST
<a href="#">AMM TASK 53-01-03-400-801-A/400</a>	BAGGAGE-COMPARTMENT FLOOR PANELS - INSTALLATION

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
271	271ALW	Lining of the baggage compartment
272	272ARW	Lining of the baggage compartment
271	271AF	Floor panel of the baggage compartment
272	272AF	Floor panel of the baggage compartment
414	414AB	LH Pylon
414	414BB	LH Pylon
414	414CB	LH Pylon
414	414DB	LH Pylon
424	424AB	RH Pylon
424	424BB	RH Pylon
424	424CB	RH Pylon
424	424DB	RH Pylon

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench, range: 0 - 33.89 N.m (0 - 300 lb.in)	To apply torque to the nuts of the tubes	



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## E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the baggage compartment	1
Commercially available	Workstand	To get access to the work area in the pylon	1

## F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
GGA80TF/B	Grease	AR
P/S870C-12 (SPEC. MIL-S 81733)	Sealant	AR

## G. Expandable Parts

Not Applicable

## H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Baggage compartment and pylon work area

## I. Installation (Figure 401) (Figure 402)

## SUBTASK 420-009-B

- (1) To install the segment of the left bleed-air servo line on the baggage compartment (Figure 401), sheet 3), do as follows:

- (a) Install the hose (17) as follows:

- 1 Remove the protective caps or plugs from the hose (17) and fitting of the fan-air control thermostat (16).
- 2 Apply GGA80TF/B grease to the fitting threads.
- 3 Put the hose (17) in position.
- 4 Connect the hose (17) to the fan-air control thermostat (16).
- 5 Connect the restrictor (18) to the hose (17).
- 6 NOTE: Hold the fitting of the fan-air control thermostat (16) with a wrench while you apply the torque.

Apply torque to the nuts of the hose (17). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).

- (b) Install the tube (25) as follows:

- 1 Remove the protective caps or plugs from the tube (25).

- 2 Apply GGA80TF/B grease to the fitting threads.
  - 3 Connect the fitting (26) to the tube (25).
  - 4 Put the tube (25) in position.
  - 5 Connect the tube (25) to the restrictor (18).
  - 6 Put the clamp (21) on the tube (25) and then put them in position.
  - 7 Install the washer (20) and the bolt (19) that attach the clamp (21) to the support.
  - 8 Put the clamp (22) on the tube (25) and then put them in position.
  - 9 Install the washer (24) and the bolt (23) that attach the clamp (22) to the support.
  - 10 Apply torque to the nuts of the tube (25). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).
- (c) Install the tube (30) as follows:
- 1 Remove the protective caps or plugs from the tube (30).
  - 2 Apply GGA80TF/B grease to the fitting threads.
  - 3 Connect the fitting (31) to the tube (30).
  - 4 Put the tube (30) in position.
  - 5 Connect the tube (30) to the fitting (26).
  - 6 Put the clamp (29) on the tube (30) and put it in position.
  - 7 Install the washer (28) and the bolt (27) that attach the clamp (29) to the support.
  - 8 Apply torque to the nuts of the tube (30). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).
- (d) Install the fitting (8) as follows:
- 1 Put the washer (11) on the fitting (8) and put them on the fuselage wall.
  - 2 Install the washer (10) and the nut (9).
  - 3 Apply torque to the nut (9) of the fitting (8). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).
  - 4 Apply sealant P/S870C-12 (SPEC. MIL-S 81733) around the fitting (8). Refer to (Figure 401), sheet 3, DET D.
- (e) Install the tube (12) as follows:
- 1 Remove the protective caps or plugs from the tube (12).

- 2 Apply GGA80TF/B grease to the fitting threads.
  - 3 Put the tube (12) in position.
  - 4 Connect the tube (12) to the fittings (31) and (8).
  - 5 Put the clamp (15) on the tube (12) and then put them in position.
  - 6 Install the washer (14) and the bolt (13) that attach the clamp (15) to the support.
  - 7 Apply torque to the nuts of the tube (12). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).
- (2) To install the segment of the bleed-air servo line in the left pylon (Figure 401), sheet 2), do as follows:
- (a) Install the fitting (5) as follows:
    - 1 Put the washer (4) on the fitting (5) and put them on the support.
    - 2 Install the washer (3) and the nut (2) that attach the fitting (5) to the support.
    - 3 Apply torque to the nut (2). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).
  - (b) Install the tube (1) as follows:
    - 1 Remove the protective caps or plugs from the tube (1).
    - 2 Apply GGA80TF/B grease to the fitting threads.
    - 3 Put the tube (1) in position.
    - 4 Connect the tube (1) to the fittings (5) and (8).
    - 5 Apply torque to the nuts of the tube (1). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).
  - (c) Install the hose (6) as follows:
    - 1 Remove the protective caps or plugs from the hose (6) and fitting of the fan-air valve (7).
    - 2 Apply GGA80TF/B grease to the fitting threads.
    - 3 Put the hose (6) in position.
    - 4 Connect the hose (6) to the fitting (5).
    - 5 Connect the hose (6) to the fan-air valve (7).
    - 6 **NOTE:** Hold the fitting of the fan-air valve (7) with a wrench while you apply the torque.

Apply torque to the nuts of the hose (6). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).

- (3) To install the segment of the right bleed-air servo line on the baggage compartment (Figure 402, sheet 3), do as follows:

- (a) Install the hose (37) as follows:

- 1 Remove the protective caps or plugs from the hose (37) and fan-air control thermostat (38).
- 2 Apply GGA80TF/B grease to the fitting threads.
- 3 Put the hose (37) in position.
- 4 Connect the hose (37) to the fan-air control thermostat (38).
- 5 Connect the restrictor (36) to the hose (37).
- 6 **NOTE:** Hold the fitting of the fan-air control thermostat (38) with a wrench while you apply the torque.

Apply torque to the nuts of the hose (37). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).

- (b) Install the tube (32) as follows:

- 1 Remove the protective caps or plugs from the tube (32).
- 2 Apply GGA80TF/B grease to the fitting threads.
- 3 Put the tube (32) in position.
- 4 Connect the tube (32) to the restrictor (36).
- 5 Put the clamp (35) on the tube (32) and then put them in position.
- 6 Install the washer (34) and the bolt (33) that attach the clamp (35) to the support.
- 7 Put the clamp (31) on the tube (32) and then put them in position.
- 8 Install the washer (30) and the bolt (29) that attach the clamp (31) to the support.
- 9 Apply torque to the nuts of the tube (32). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).

- (c) Install the tube (27) as follows:

- 1 Remove the protective caps or plugs from the tube (27).
- 2 Apply GGA80TF/B grease to the fitting threads.
- 3 Connect the fitting (23) to the tube (27).
- 4 Put the tube (27) in position.

- 5 Connect the tube (27) to the fitting (28).
  - 6 Put the clamp (26) on the tube (27) and then put them in position.
  - 7 Install the washer (24) and bolt (25) that attach the clamp (26) to the support.
  - 8 Apply torque to the nuts of the tube (27). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).
- (d) Install the fitting (15) as follows:
- 1 Put the washer (18) on the fitting (15) and put them on the fuselage wall.
  - 2 Install the washer (17) and the nut (16).
  - 3 Apply torque to the nut (16). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).
  - 4 Apply sealant P/S870C-12 (SPEC. MIL-S 81733) around the fitting (15). Refer to (Figure 402), sheet 3, DET D.
- (e) Install the tube (22) as follows:
- 1 Remove the protective caps or plugs from the tube (22).
  - 2 Apply GGA80TF/B grease to the fitting threads.
  - 3 Put the tube (22) in position.
  - 4 Connect the tube (22) to the fittings (23) and (15).
  - 5 Put the clamp (21) on the tube (22) and put it in position.
  - 6 Install the washer (20) and the bolt (19) that attach the clamp (21) to the support.
  - 7 Apply torque to the nuts of the tube (22). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).
- (4) To install the segment of the bleed-air servo line in the right pylon (Figure 402), sheet 2, do as follows:
- (a) Install the fitting (10) as follows:
- 1 Put the washer (11) on the fitting (10) and put them on the support.
  - 2 Install the washer (12) and the nut (13).
  - 3 Apply torque to the nut (13). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).
- (b) Install the tube (14) as follows:
- 1 Remove the protective caps or plugs from the tube (14).
  - 2 Apply GGA80TF/B grease to the fitting threads.

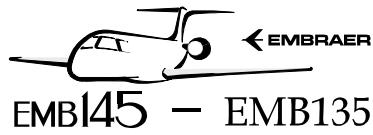
- 3 Put the tube (14) in position.
  - 4 Connect the tube (14) to the fittings (15) and (10).
  - 5 Apply torque to the nuts of the tube (14). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).
- (c) Install the tube (9) as follows:
- 1 Remove the protective caps or plugs from the tube (9).
  - 2 Apply GGA80TF/B grease to the fitting threads.
  - 3 Connect the fitting (8) to the tube (9).
  - 4 Put the tube (9) in position.
  - 5 Connect the tube (9) to the fitting (10).
  - 6 Apply torque to the nuts of the tube (9). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).
- (d) Install the tube (2) as follows:
- 1 Remove the protective caps or plugs from the tube (2) and fitting of the fan-air valve (1).
  - 2 Apply GGA80TF/B grease to the fitting threads.
  - 3 Put the tube (2) in position.
  - 4 Connect the tube (2) to the fan-air valve (1).
  - 5 Connect the tube (2) to the fitting (8).
  - 6 Put the clamp (5) on the tube (2) and then put them in position.
  - 7 Install the washer (4), bolt (3), the washer (6) and the nut (7) that attach the clamp (5) to the other clamp.
  - 8 NOTE: Hold the fitting of the fan-air valve (1) with a wrench while you apply the torque.

Apply torque to the nuts of the tube (2). The torque value must be between 15.25 N.m (135 lb.in) and 16.95 N.m (150 lb.in).

#### J. Follow-on

##### SUBTASK 842-009-B

- (1) Do a leakage test of the bleed-air servo lines ( [AMM TASK 36-11-11-700-801-A/500](#)).
- (2) Install the floor panels 271AF, and 272AF (AMM MPP 06-41-02/100 and [AMM TASK 53-01-03-400-801-A/400](#)).
- (3) Install access panels 271ALW, and 272ARW ( [AMM MPP 06-41-05/100](#) and [AMM TASK 25-51-01-400-801-A/400](#)).



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- (4) Install these access panels:
  - (a) On the left pylon: 414AB, 414BB, 414CB, and 414DB ( [AMM MPP 06-43-00/100](#)).
  - (b) On the right pylon: 424AB, 424BB, 424CB, and 424DB ( [AMM MPP 06-43-00/100](#)).
- (5) Remove the workstands from the aircraft work area.