



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

CROSS BLEED VALVE - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the cross-bleed valve.
- 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
36-10-01-000-801-A	CROSS-BLEED VALVE - REMOVAL	ALL
36-10-01-400-801-A	CROSS-BLEED VALVE - INSTALLATION	ALL
36-10-01-000-802-A	FILTER - REMOVAL	ALL
36-10-01-400-802-A	FILTER - INSTALLATION	ALL



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TASK 36-10-01-000-801-A

EFFECTIVITY: ALL

2. CROSS-BLEED VALVE - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the cross-bleed valve.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
272	272DR	Fuselage rear section I

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the aft electronic compartment

I. Preparation

SUBTASK 841-002-A

- (1) Remove access panel 272DR (AMM MPP 06-41-01/100).
- (2) On the circuit breaker panel, open the CROSS BLEED circuit breaker and attach a DO-NOT-CLOSE tag to it.

J. Removal (Figure 401)

SUBTASK 020-002-A

WARNING: DO NOT TOUCH THE BLEED-AIR SYSTEM DUCTS OR COMPONENTS IMMEDIATELY AFTER THE ENGINE OR APU STOPS BECAUSE OF THE HIGH BLEED-AIR TEMPERATURE.

- (1) Disconnect the electrical connector (6).



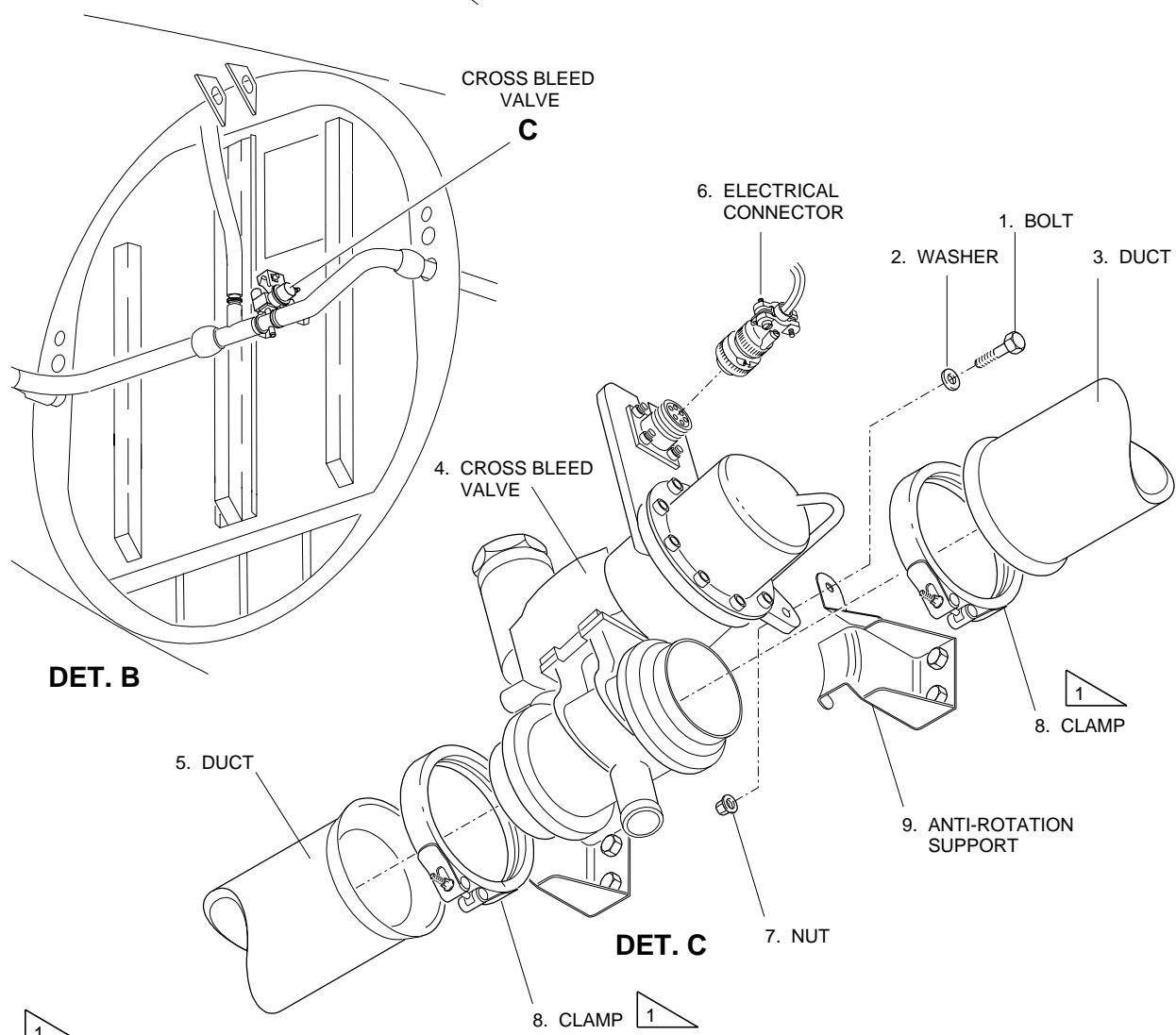
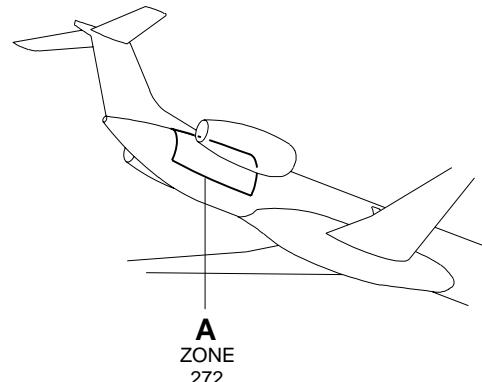
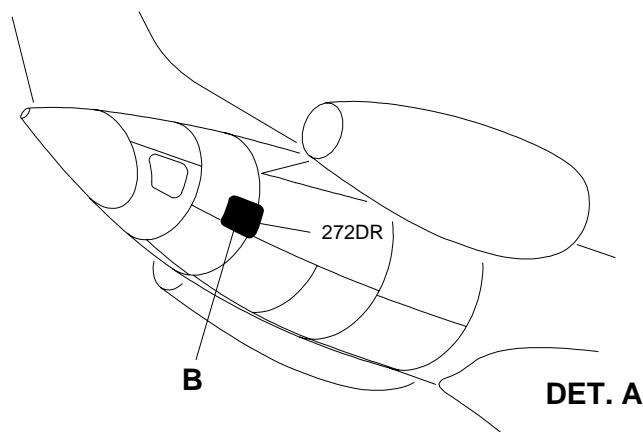
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- (2) Release the Marman clamp (8) to disconnect the cross-bleed valve (4).
- (3) Remove the bolt (1), washer (2), and nut (7) to disconnect the anti-rotation support (9).
- (4) Install the plastic plugs to the ducts (3) and (5).

EFFECTIVITY: ALL

Cross-bleed Valve - Removal/Installation

Figure 401



 **TORQUE: 4.5 - 5.6 Nm (40-50 lb.in)**

REFER TO TASK 20-10-10-910-801-A FOR CORRECT INSTALATION OF V-CLAMP

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TASK 36-10-01-400-801-A

EFFECTIVITY: ALL

3. CROSS-BLEED VALVE - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the cross-bleed valve.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 36-00-00-700-803-A/500	AIR BLEED SYSTEM - OPERATIONAL TEST
AMM TASK 36-00-00-860-802-A/200	PNEUMATIC ENERGY - AIR BLEED THROUGH THE APU
AMM TASK 36-11-09-200-803-A/600	AIR-BLEED LINES - LEAK INSPECTION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
272	272DR	Fuselage rear section I

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the aft electronic compartment

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Remove the plastic plugs from the ducts (3) and (5).
- (2) Put the cross-bleed valve (4) with the arrow in the bleed-air flow direction in the installation position.
- (3) Install the washer (2), bolt (1), and nut (7) to connect the anti-rotation support (9).
- (4) Connect the cross-bleed valve ducts (3) and (5) and tighten the Marman clamp (8) to the torque shown in (Figure 401).



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- (5) Tighten the bolt (1) and nut (7) that attach the cross-bleed valve to the support (9).
- (6) Connect the electrical connector (6).

J. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, close the CROSS BLEED circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (2) Do the operational test of the air bleed system ([AMM TASK 36-00-00-700-803-A/500](#)) or bleed the air through the APU ([AMM TASK 36-00-00-860-802-A/200](#)) and do a check for leakage at the cross-bleed valve clamps ([AMM TASK 36-11-09-200-803-A/600](#)).
- (3) Install access panel 272DR (AMM MPP 06-41-01/100).



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TASK 36-10-01-000-802-A

EFFECTIVITY: ALL

4. FILTER - REMOVAL

A. General

- (1) This task gives the instructions to remove the filter from the cross-bleed valve.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
272	272DR	Fuselage rear section I

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the aft electronic compartment

I. Preparation

SUBTASK 841-003-A

- (1) Remove access panel 272DR (AMM MPP 06-41-01/100).
- (2) On the circuit breaker panel, open the CROSS BLEED circuit breaker and attach a DO-NOT-CLOSE tag to it.

J. Removal (Figure 402)

SUBTASK 020-003-A

WARNING: DO NOT TOUCH THE BLEED-AIR SYSTEM DUCTS OR COMPONENTS IMMEDIATELY AFTER THE ENGINE OR APU STOPS BECAUSE OF THE HIGH BLEED-AIR TEMPERATURE.

- (1) Remove the plug (1) from the cross-bleed valve.

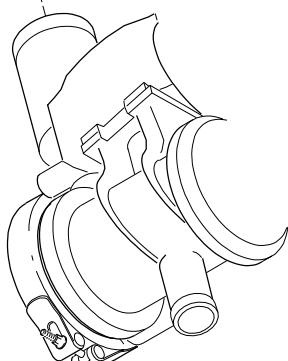
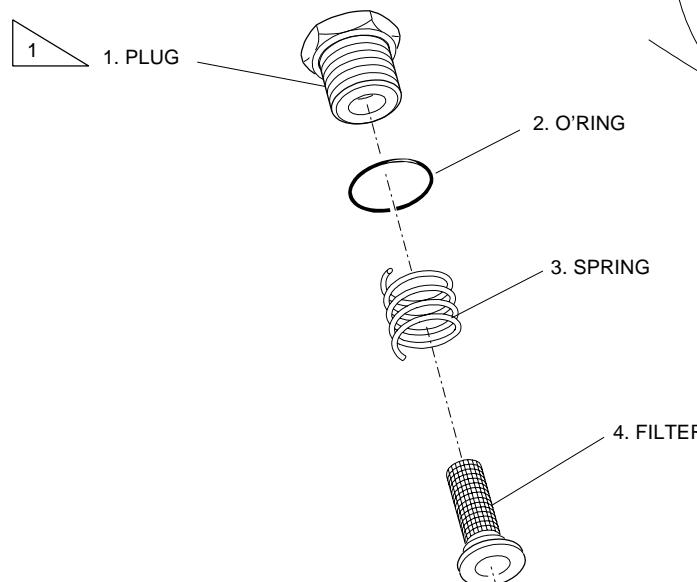
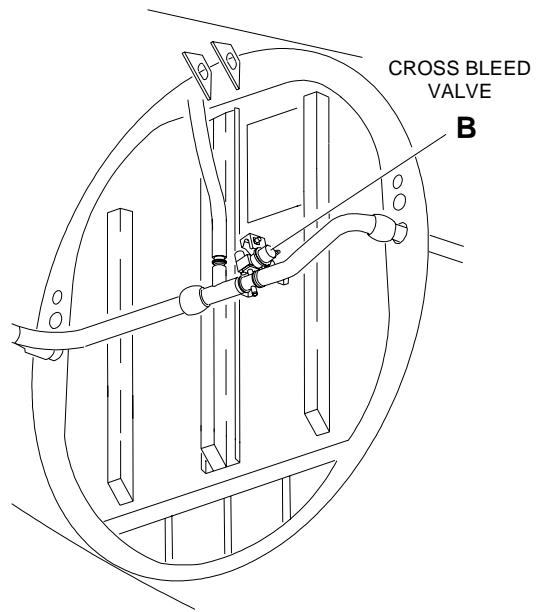
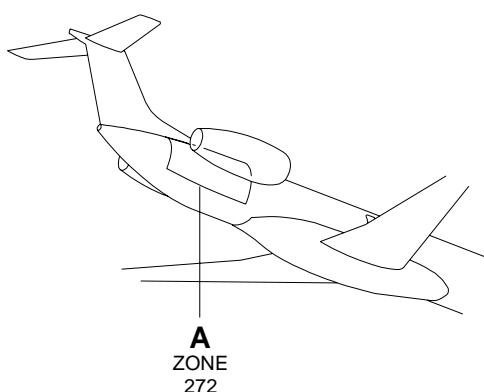


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- (2) Remove the O-ring (2) and spring (3) from the filter (4).
- (3) Remove the filter (4) from the cross-bleed valve.
- (4) Install the plug (1) on the cross-bleed valve.

EFFECTIVITY: ALL
 Filter - Removal/Installation
 Figure 402



DET. B

 **TORQUE: 4.0 – 4.5 N.m (35 – 40 lb.in)**

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TASK 36-10-01-400-802-A

EFFECTIVITY: ALL

5. FILTER - INSTALLATION

A. General

- (1) This task gives the instructions to install the filter in the cross-bleed valve.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
272	272DR	Fuselage rear section I

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench (Range: 0 - 75 lb.in)	To tighten the plug	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the aft electronic compartment

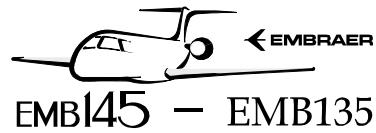
I. Installation (Figure 402)

SUBTASK 420-003-A

- (1) Remove the plug (1) from the cross-bleed valve.

CAUTION: REFER TO FIGURE 402 FOR THE CORRECT INSTALLATION POSITION OF THE FILTER IN THE CROSS-BLEED VALVE.

- (2) Install the filter (4) in the cross-bleed valve.
(3) Install the O-ring (2) and spring (3) on the filter (4).
(4) Install the plug (1) in the cross-bleed valve.



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- (5) Tighten the plug (1) to the specified torque (Figure 402).

J. Follow-on

SUBTASK 842-003-A

- (1) Install the access panel 272DR (AMM MPP 06-41-01/100).
- (2) On the circuit breaker panel, close the CROSS BLEED circuit breaker and remove the DO-NOT-CLOSE tag from it.

