



AIRCRAFT MAINTENANCE MANUAL

ENGINE BLEED-AIR CHECK VALVE - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the engine bleed-air check 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
36-11-01-000-801-A	ENGINE BLEED-AIR CHECK VALVE - RE- MOVAL	ALL
36-11-01-400-801-A	ENGINE BLEED-AIR CHECK VALVE - IN- STALLATION	ALL



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TASK 36-11-01-000-801-A

EFFECTIVITY: ALL

2. ENGINE BLEED-AIR CHECK VALVE - REMOVAL

A. General

- (1) This task gives the instructions to remove the engine bleed-air check valve.
- (2) This task is applicable to the four bleed-air check valves. They are installed two on the LH engine and two on the RH engine.

B. References

REFERENCE	DESIGNATION
AMM TASK 71-11-01-000-801-A/400	ENGINE UPPER COWLING - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
412	412 - Upper cowling	LH engine
422	422 - Upper cowling	RH engine

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the work area	2

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH engine and RH engine

I. Preparation

SUBTASK 841-002-A

- (1) Remove the upper cowling ([AMM TASK 71-11-01-000-801-A/400](#)).



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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.

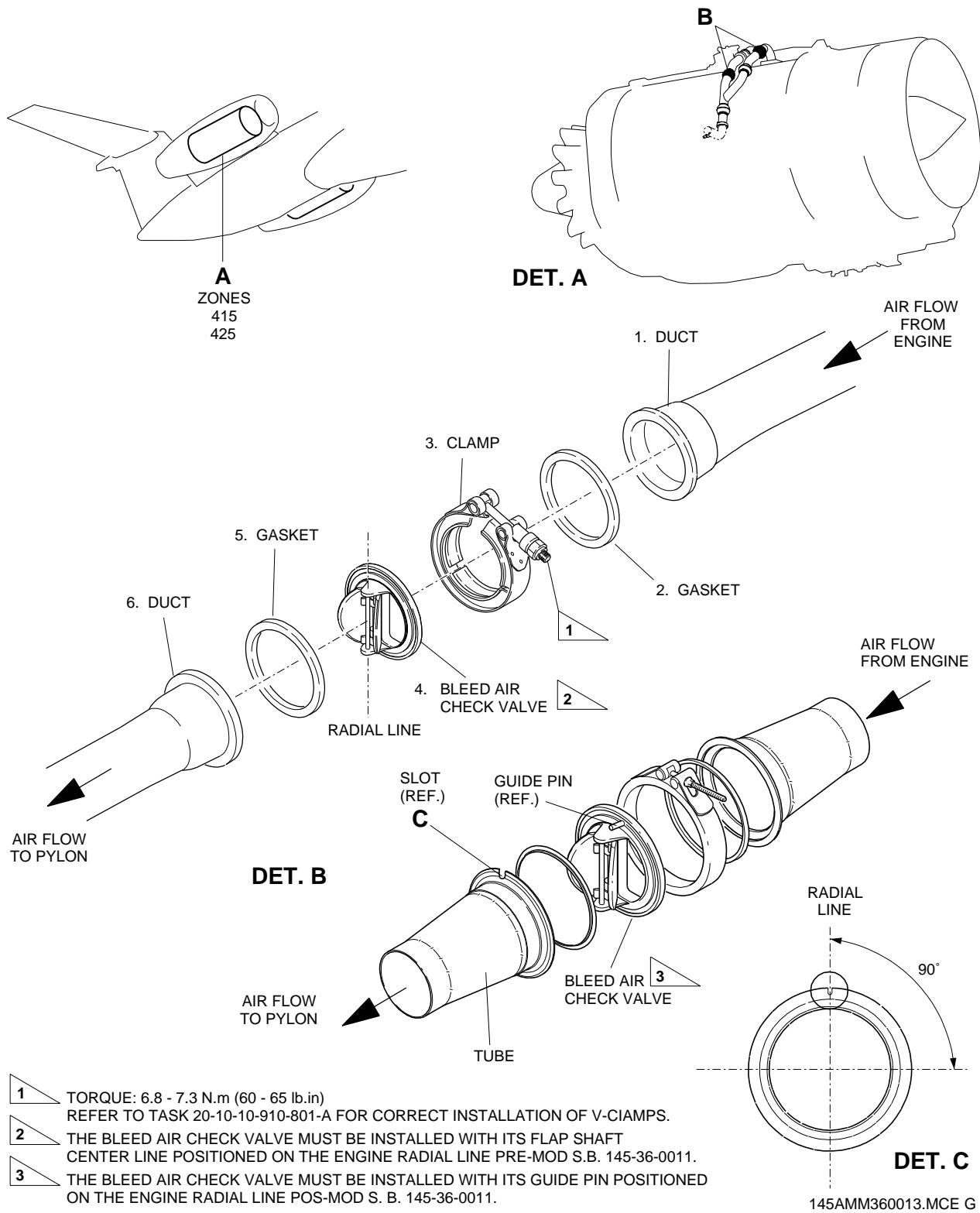
CAUTION: WHEN YOU REMOVE THE VALVE, BE CAREFUL NOT TO LET ITS GASKETS FALL DOWN INTO THE ENGINE.

- (1) Release the clamp (3) to disconnect the engine bleed-air check valve from the ducts (1) and (6).
- (2) Remove the engine bleed-air check valve (4).
- (3) Remove and discard the gaskets (2) and (5).
- (4) Install the protective plastic plugs to the ducts (1) and (6).

EFFECTIVITY: ALL

Engine Bleed-Air Check Valve - Removal/Installation

Figure 401





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TASK 36-11-01-400-801-A

EFFECTIVITY: ALL

3. ENGINE BLEED-AIR CHECK VALVE - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the engine bleed-air check valve.
- (2) This task is applicable to the bleed-air check valves of the LH engine and RH engine.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-10-10-910-801-A/200	V-BAND CLAMPS - INSTALLATION
AMM TASK 36-11-01-700-801-A/500	ENGINE BLEED AIR CHECK VALVES - OPERATIONAL CHECK
AMM TASK 71-11-01-400-801-A/400	ENGINE UPPER COWLING - INSTALLATION
IPC 36-11-00	ENGINE BLEED AIR SYSTEM

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
412	412 - Upper cowling	LH engine
422	422 - Upper cowling	RH engine

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To tighten the clamp	

E. Auxiliary Items

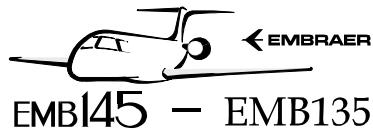
ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the work area	2

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Gasket	IPC 36-11-00	2



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H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH engine and RH engine

I. Installation (Figure 401)

SUBTASK 420-002-A

CAUTION: MAKE SURE THAT THE LINE TUBES ARE CLEAN, WITHOUT DUST, SOLIDS, GREASE, ETC.

- (1) Remove the plastic plugs from the ducts (1) and (6).
- (2) Install the new gaskets (2) and (5).

CAUTION: • THE BLEED AIR CHECK VALVE MUST BE INSTALLED WITH ITS FLAP SHAFT CENTER LINE ON THE ENGINE RADIAL LINE PRE-MOD. S.B. 145-36-0011.
• THE BLEED AIR CHECK VALVE MUST BE INSTALLED WITH ITS GUIDE PIN ON THE ENGINE RADIAL LINE POST-MOD. S.B. 145-36-0011.

- (3) Install the engine bleed-air check valve (4) with the arrow in the bleed-air flow direction.

NOTE: The direction of the air flow is from the engine to the pylon.

- (4) Connect the engine bleed-air check valve to the ducts (1) and (6).

CAUTION: REFER TO [AMM TASK 20-10-10-910-801-A/200](#) FOR CORRECT INSTALLATION OF MARMAN V-CLAMP.

- (5) Install the clamp (3).

- (6) Tighten the clamp (3) to the torque shown in (Figure 401).

J. Follow-on

SUBTASK 842-002-A

- (1) Install the upper cowling ([AMM TASK 71-11-01-400-801-A/400](#)).
- (2) Do an operational check of the Engine Bleed-Air Check Valve ([AMM TASK 36-11-01-700-801-A/500](#)).