

## ENGINE BLEED-AIR CHECK VALVE - INSPECTION/CHECK

*EFFECTIVITY: ALL*

### 1. General

- A. This section gives the procedures to inspect the bleed-air check valves of the LH/RH engines.
- 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
36-11-01-200-801-A	ENGINE BLEED-AIR CHECK VALVE - GENERAL VISUAL INSPECTION	ALL
36-11-01-200-802-A ♦	ENGINE LOW PRESSURE BLEED AIR CHECK VALVES - DETAILED/DIMEN- SIONAL	APPLICABLE TO AIR- CRAFT WITH CHECK VALVE P/N 816603-3

TASK 36-11-01-200-801-A

EFFECTIVITY: ALL

## 2. ENGINE BLEED-AIR CHECK VALVE - GENERAL VISUAL INSPECTION

### A. General

- (1) There are two bleed-air check valves installed at the LH engine and two others at the RH engine that permit air flow from the engine to the bleed line.

### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 36-11-01-000-801-A/400</a>	ENGINE BLEED-AIR CHECK VALVE - REMOVAL
<a href="#">AMM TASK 36-11-01-200-802-A/600</a>	ENGINE LOW PRESSURE BLEED AIR CHECK VALVES - DETAILED/DIMENSIONAL
<a href="#">AMM TASK 36-11-01-400-801-A/400</a>	ENGINE BLEED-AIR CHECK VALVE - INSTALLATION
<a href="#">AMM TASK 71-11-01-000-801-A/400</a>	ENGINE UPPER COWLING - REMOVAL
<a href="#">AMM TASK 71-11-01-400-801-A/400</a>	ENGINE UPPER COWLING - INSTALLATION

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
412	412	LH engine upper cowling
422	422	RH engine upper cowling

### 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	LH and RH engines

### I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Remove the upper cowlings ([AMM TASK 71-11-01-000-801-A/400](#)).
- (3) Remove the engine bleed-air check valves ( [AMM TASK 36-11-01-000-801-A/400](#)).

J. General Visual Inspection of the Engine Bleed-Air Check Valves ([Figure 601](#))

*SUBTASK 212-002-A*

- (1) Do a visual inspection of the valve for condition, which must include:
  - (a) Check for general condition of the spring (if applicable), wear, breakage, load and correct assembly.
  - (b) Integrity of the flappers.
  - (c) Check on the hinge pin for too much clearance from the flapper and swaged areas.
  - (d) Check on the pins for wear, deformation, signs of impact because of use and vertical play.
- (2) If a part of the check valve is damage, do [AMM TASK 36-11-01-200-802-A/600](#).

K. Follow-on

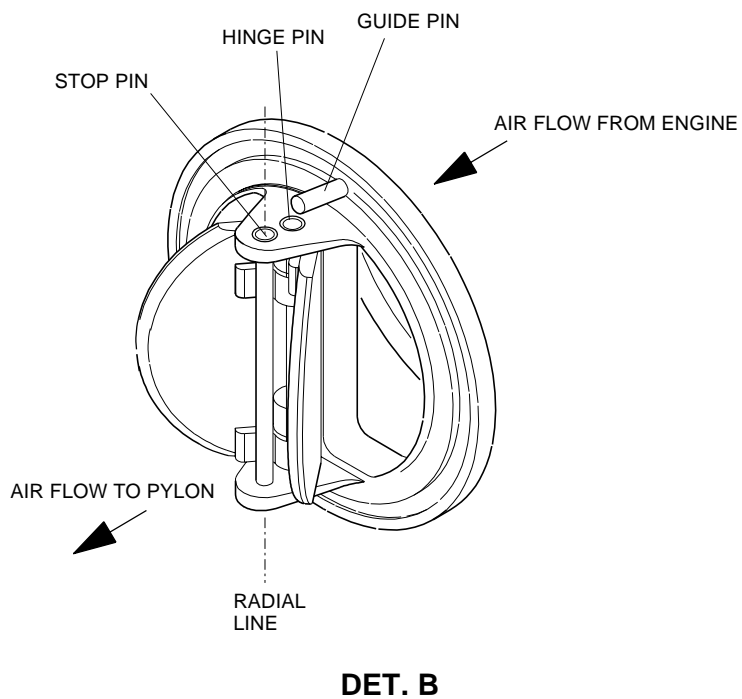
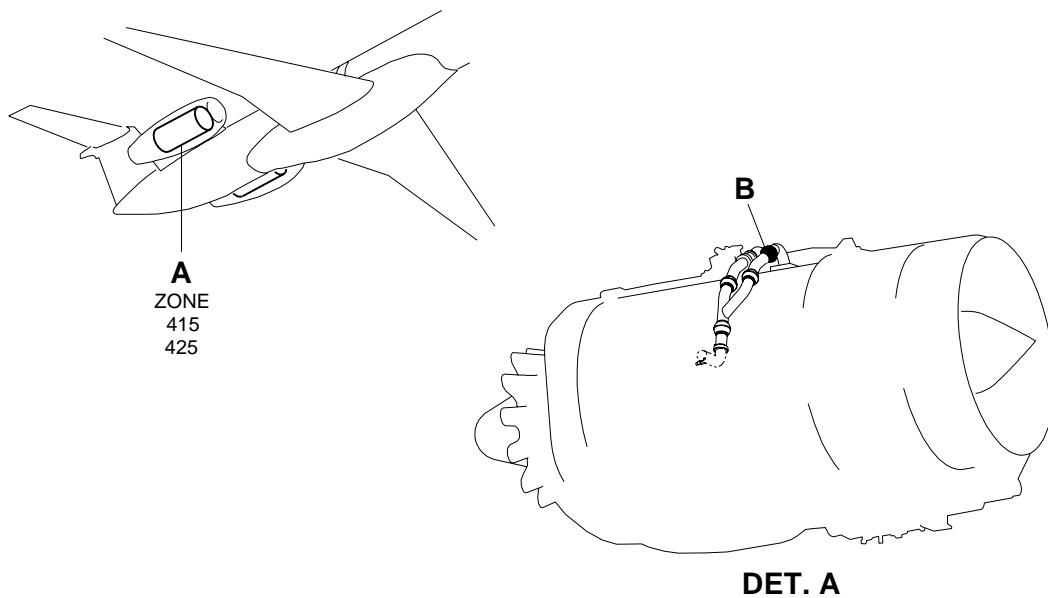
*SUBTASK 842-002-A*

- (1) Install the bleed-air check valves ( [AMM TASK 36-11-01-400-801-A/400](#)).
- (2) Install the upper cowling ([AMM TASK 71-11-01-400-801-A/400](#)).

**EFFECTIVITY: ALL**

Engine Bleed-Air Check Valve - Inspection

Figure 601



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TASK 36-11-01-200-802-A

EFFECTIVITY: APPLICABLE TO AIRCRAFT WITH CHECK VALVE P/N 816603-3

### 3. ENGINE LOW PRESSURE BLEED AIR CHECK VALVES - DETAILED/DIMENSIONAL

#### A. General

- (1) This task gives the procedures to do the detailed inspection of the engine low-pressure bleed air check valves.
- (2) There is one bleed-air check valve installed at the LH and RH engines that permit air from low pressure bleed air.

#### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 36-11-01-000-801-A/400</a>	ENGINE BLEED-AIR CHECK VALVE - REMOVAL
<a href="#">AMM TASK 36-11-01-400-801-A/400</a>	ENGINE BLEED-AIR CHECK VALVE - INSTALLATION
<a href="#">AMM TASK 71-11-01-000-801-A/400</a>	ENGINE UPPER COWLING - REMOVAL
<a href="#">AMM TASK 71-11-01-400-801-A/400</a>	ENGINE UPPER COWLING - INSTALLATION

#### C. Zones and Accesses

Not Applicable

#### 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	LH and RH engines

#### I. Preparation

##### *SUBTASK 841-003-A*

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Remove the upper cowlings ([AMM TASK 71-11-01-000-801-A/400](#)).
- (3) Remove the engine low pressure bleed-air check valves ( [AMM TASK 36-11-01-000-801-A/400](#)).

J. Inspect (Detailed Inspection) Engine Low-Pressure Bleed-Air Check Valve

*SUBTASK 220-002-A*

- (1) Examine the stop pin for wear, as follows:
  - (a) Inspect the stop pin for wear at the LOC 1, LOC 2, LOC 3, and LOC 4 positions and record the smallest value measured at each location. Refer to [Figure 602](#), DET. B and VIEW C.

Result:

    - 1 If the measured diameter across the stop pin is less than 4.52 mm (0.178 inch) in a location, replace the check valve with a new valve with the same configuration.
    - 2 If the measured diameter across the stop pin is greater than or equal to 4.52 mm (0.178 inch) in all locations, install the check valve back.
- (2) Do the Flap Actuation Test, as follows:
  - (a) Manually hold the engine bleed valve with the flap mounting surface in a vertical position. Refer to [Figure 602](#), VIEW D.
  - (b) Manually open one flap at a time to the full, open position.
  - (c) Make sure that the flap assembly moves freely and does not bind up.

K. Follow-on

*SUBTASK 842-003-A*

- (1) Install the bleed-air check valves ( [AMM TASK 36-11-01-400-801-A/400](#) ).
- (2) Install the upper cowling ( [AMM TASK 71-11-01-400-801-A/400](#) ).

Figure 602



