
FAN AIR VALVE - REMOVAL/INSTALLATION*EFFECTIVITY: ALL*1. General

- A. This section gives the procedures to remove and install the fan-air 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 |
|--------------------|-------------------------------------|-------------|
| 36-11-03-000-801-A | FAN-AIR VALVE - REMOVAL | ALL |
| 36-11-03-400-801-A | FAN-AIR VALVE - INSTALLATION | ALL |
| 36-11-03-000-802-A | FAN-AIR VALVE FILTER - REMOVAL | ALL |
| 36-11-03-400-802-A | FAN-AIR VALVE FILTER - INSTALLATION | ALL |

TASK 36-11-03-000-801-A

EFFECTIVITY: ALL

2. FAN-AIR VALVE - REMOVAL

A. General

- (1) This task gives the instructions to remove the fan-air valve.
- (2) This task is applicable to the fan-air valves installed in the LH/RH pylons.

B. References

| REFERENCE | DESIGNATION |
|--------------------------------------|----------------------|
| AMM MPP 06-43-00/100 | - COMPONENT LOCATION |

C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION |
|------|------------|----------|
| 414 | 414CB | LH pylon |
| 424 | 424CB | RH pylon |

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 LH/RH pylons |

I. Preparation

SUBTASK 841-002-A

- (1) Remove access panels 414CB and 424CB ([AMM MPP 06-43-00/100](#)).

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) Remove the tubes (10) and (11) as follows:

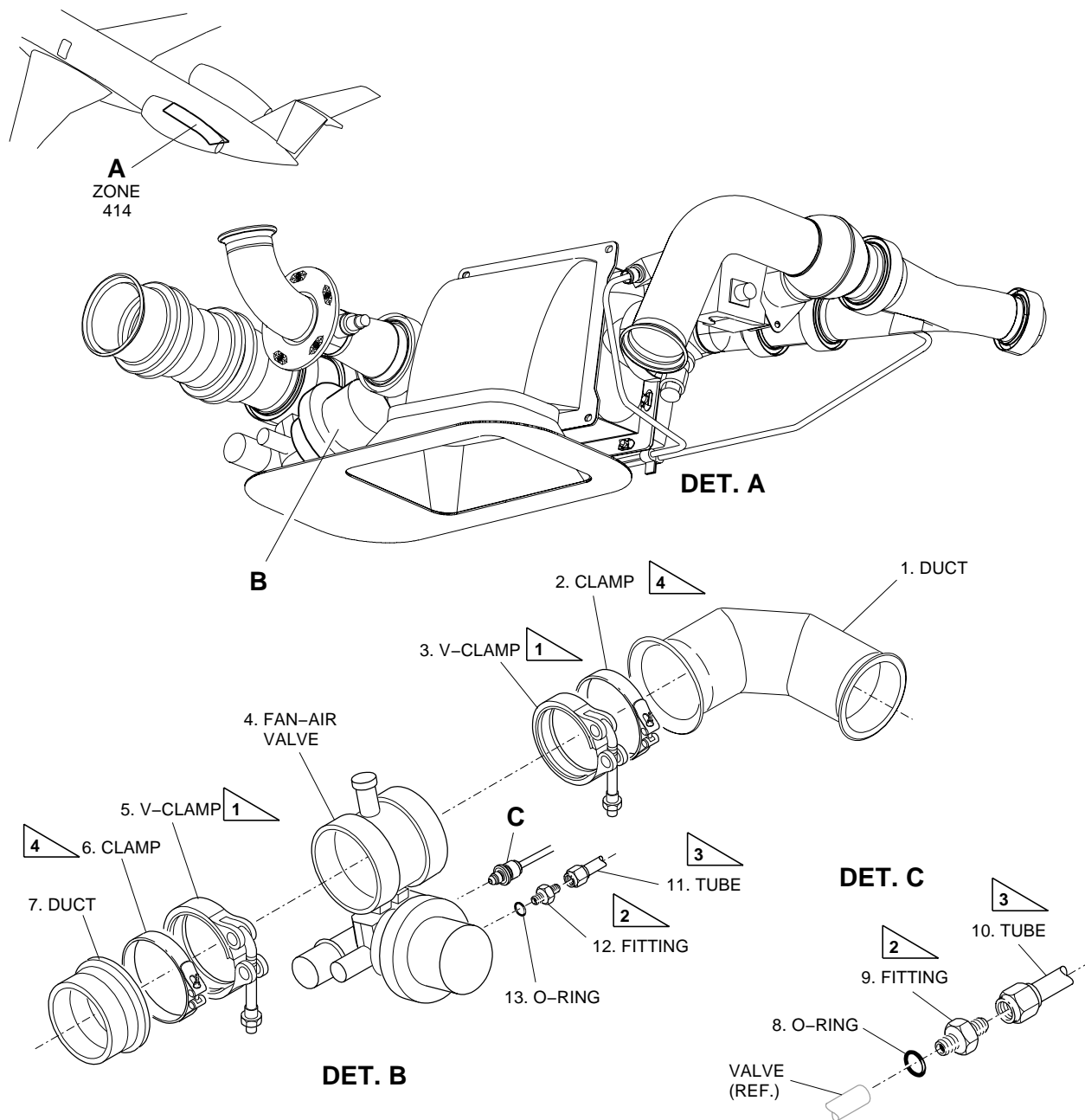
NOTE: Hold the fittings of the fan-air valve (4) with a wrench while you disconnect the tubes (10) and (11).

- (a) Disconnect the tube (10) from the fitting (9).
 - (b) Disconnect the tube (11) from the fitting (12).
 - (c) Disconnect the fittings (9) and (12) from the fan-air valve (4).
 - (d) Remove and discard the o-rings (8) and (13).
 - (e) Install protective caps or plugs to the fittings and all opened connections of the fan-air valve and tubes.
- (2) Release the clamps (2) and (6).
 - (3) Release the V-clamps (3) and (5) to disconnect the fan-air valve (4) from the ducts (1) and (7).
 - (4) Remove the fan-air valve (4).
 - (5) Install protective plastic plugs to the ducts (1) and (7).

EFFECTIVITY: ALL

Fan-Air Valve - Removal/Installation

Figure 401



1 TORQUE: 6.2 – 6.8 N.m (55 – 60 lb.in).
REFER TO TASK 20-10-10-910-801- A FOR CORRECT INSTALLATION OF V-CLAMP.

2 TORQUE: 5.65 – 7.34 N.m (50 – 65 lb.in)

3 TORQUE: 15.25 – 16.95 N.m (135 – 150 lb.in)

4 TORQUE: 2.26 – 2.82 N.m (20 – 25 lb.in)

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TASK 36-11-03-400-801-A
EFFECTIVITY: ALL

3. FAN-AIR VALVE - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the fan-air valve.
- (2) This task is applicable to the fan-air valve removed from the LH/RH pylons.

B. References

| REFERENCE | DESIGNATION |
|---------------------------------|---|
| AMM MPP 06-43-00/100 | - COMPONENT LOCATION |
| AMM TASK 20-10-10-910-801-A/200 | V-BAND CLAMPS - INSTALLATION |
| AMM TASK 36-00-00-700-803-A/500 | AIR BLEED SYSTEM - OPERATIONAL TEST |
| AMM TASK 36-00-00-700-806-A/500 | AIR BLEED SYSTEM - OPERATIONAL TEST |
| AMM TASK 36-11-09-820-801-A/200 | ENGINE-BLEED SYSTEM DUCT LINES - ADJUSTMENT |
| AMM TASK 36-11-11-700-801-A/500 | SERVO LINE - ADJUSTMENT/TEST |

C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION |
|------|------------|----------|
| 414 | 414CB | LH pylon |
| 424 | 424CB | RH pylon |

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 LH/RH pylons |

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Remove the protective plastic plugs from the ducts (1) and (7).

- (2) Put the fan-air valve (4) with the arrow in the bleed-air-flow direction in the installation position.

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

- (3) **NOTE:** If the connection is stressed and/or the ducts are misaligned, refer to [AMM TASK 36-11-09-820-801-A/200](#).

Put the clamps (2) and (6) in the installation position to attach the fan-air valve (4) seat to the ducts (1) and (7). Tighten the V-clamps (3) and (5) to the torque shown in (Figure 401).

- (4) Install the tubes (10) and (11) as follows:
- (a) Remove the protective caps or plugs from the fittings and all opened connections of the fan-air valve and tubes.
 - (b) Install new o-rings (8) and (13) to the fittings (9) and (12) respectively.
 - (c) Connect the fittings (9) and (12) to the fan-air valve (4).
 - (d) Apply torque of 5.65 - 7.34 N.m (50-65 lb.in) to the fittings connected to the fan-air valve.
 - (e) **NOTE:** Hold the fittings of the fan-air valve (4) with a wrench while you connect the tubes (10) and (11).
Connect the tubes (10) and (11) to the fittings (9) and (12) respectively.
 - (f) Apply torque of 135-150 lb.in to the nut installed at the end of the tubes.

J. Follow-on

SUBTASK 842-002-A

- (1) Do the Fan-Air Valve Servo-Line Leakage Test ([AMM TASK 36-11-11-700-801-A/500](#) or [AMM TASK 36-00-00-700-803-A/500](#) and [AMM TASK 36-00-00-700-806-A/500](#)).
- (2) Install access panels 414CB and 424CB ([AMM MPP 06-43-00/100](#)).

TASK 36-11-03-000-802-A

EFFECTIVITY: ALL

4. FAN-AIR VALVE FILTER - REMOVAL

A. General

- (1) This task gives the instructions to remove the filter from the fan-air valve.
- (2) This task is applicable to the fan-air valves of the LH/RH pylons.

B. References

| REFERENCE | DESIGNATION |
|--------------------------------------|----------------------|
| AMM MPP 06-43-00/100 | - COMPONENT LOCATION |

C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION |
|------|------------|----------|
| 414 | 414CB | LH pylon |
| 424 | 424CB | RH pylon |

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 LH/RH pylons |

I. Preparation

SUBTASK 841-003-A

- (1) Remove access panels 414CB and 424CB ([AMM MPP 06-43-00/100](#)).

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) Cut and remove the lock wire (1) from the plug.

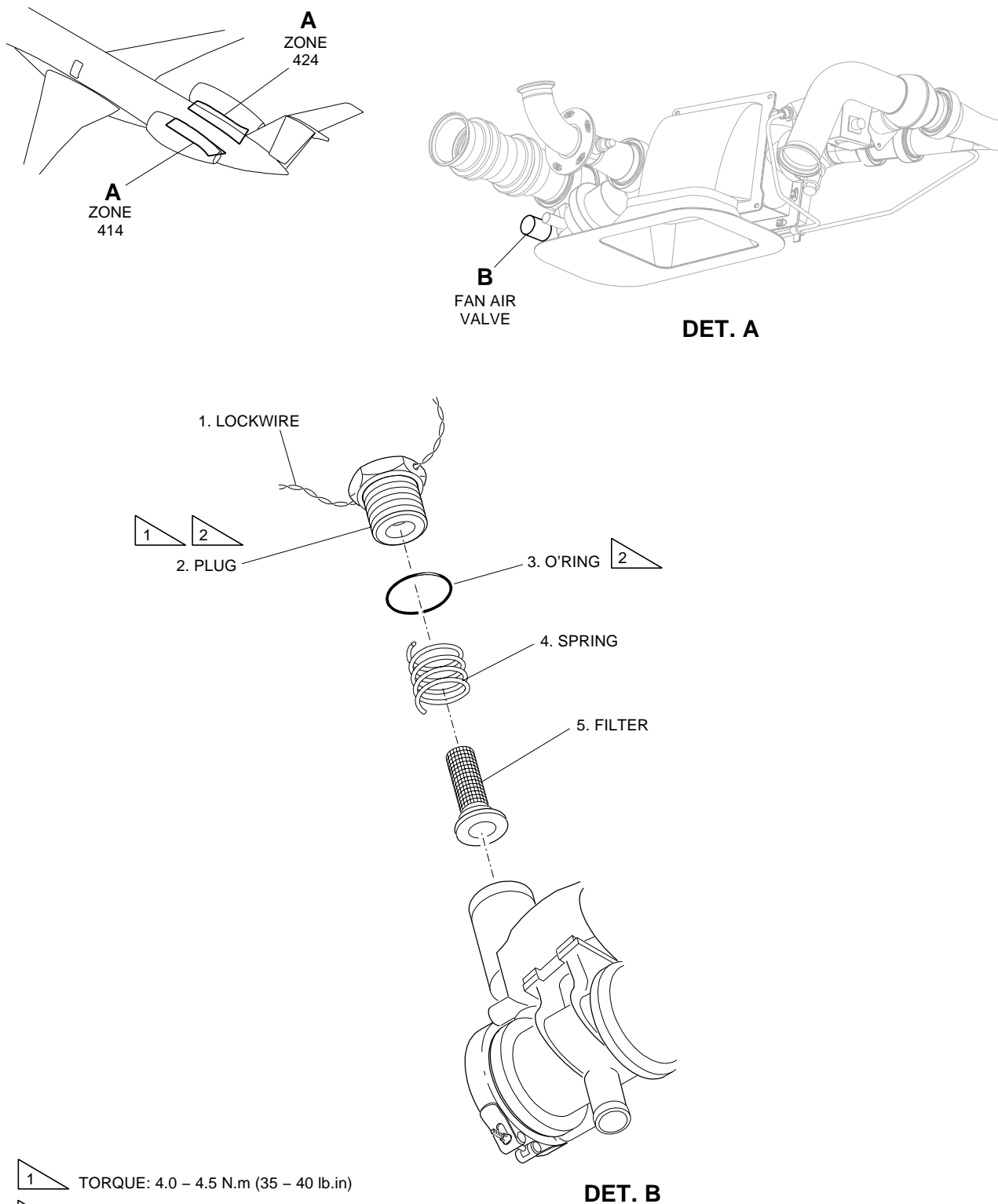


- (2) Remove the plug (2) from the fan-air valve.
- (3) Remove the O-ring (3) and spring (4) from the filter (5). Discard the O-ring.
- (4) Remove the filter (5) from the fan-air valve.
- (5) Install the plug (2) to the fan-air valve to prevent contamination..

EFFECTIVITY: ALL

Fan-Air Valve Filter - Removal/Installation

Figure 402



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TASK 36-11-03-400-802-A

EFFECTIVITY: ALL

5. FAN-AIR VALVE FILTER - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the filter in the fan-air valve.
- (2) This task is applicable to the fan-air valve of the LH/RH pylons.

B. References

| REFERENCE | DESIGNATION |
|--------------------------------------|-------------------------|
| AMM MPP 06-43-00/100 | - COMPONENT LOCATION |
| IPC 36-11-00 | ENGINE BLEED AIR SYSTEM |

C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION |
|------|------------|----------|
| 414 | 414CB | LH pylon |
| 424 | 424CB | RH pylon |

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

| SPECIFICATION (BRAND) | DESCRIPTION | QTY |
|--------------------------|---|-----|
| MS20995C20 | Lock wire | AR |
| SAE-AS8660 | Silicone Compound (Dow Corning 4 or Dow Corning 44) | AR |
| - | Mo-Lith No. 2 Thread Lubricant | AR |

G. Expendable Parts

| ITEM | IPC REFERENCE (VENDOR REFERENCE) | QTY |
|--------|-------------------------------------|-----|
| O-ring | IPC 36-11-00 | AR |

H. Persons Recommended

| QTY | FUNCTION | PLACE |
|-----|---------------|---------------------|
| 1 | Does the task | In the LH/RH pylons |

I. Installation (Figure 402)

SUBTASK 420-003-A

- (1) Remove the plug (2) from the fan-air valve.

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

- (2) Install the filter (5) and the spring (4) in the fan-air valve.
- (3) Apply a thin layer of Mo-Lith No. 2 lubricant on the threads of the plug (4) and Dow Corning 44 on the new O-ring (3) .
- (4) Install the O-ring (3).
- (5) Install the plug (2) in the fan-air valve.
- (6) Use a torque wrench to torque the plug (2) to 3.95 - 4.51 N.m (35 - 40 lb.in).
- (7) Safety the plug (2) with lockwire (1).

J. Follow-on

SUBTASK 842-003-A

- (1) Install access panels 414CB and 424CB ([AMM MPP 06-43-00/100](#)).

