



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

ENGINE BLEED VALVE - CLEANING/PAINTING

EFFECTIVITY: PRE-MOD. S.B. 145-36-0028

1. General

- A. This section gives the procedures to do the cleaning of the engine-bleed valve air filters.
- B. The engine-bleed valve air filters are installed in the LH/RH pylons.
- 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).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
36-11-05-100-801-A ♦	ENGINE-BLEED VALVE FILTER - CLEANING BY ULTRASONIC METHOD	PRE-MOD. S.B. 145-36-0028
36-11-05-100-802-A	ENGINE-BLEED VALVE AIR FILTER - CLEANING BY AIR BLAST METHOD	PRE-MOD. S.B. 145-36-0028



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TASK 36-11-05-100-801-A

EFFECTIVITY: PRE-MOD. S.B. 145-36-0028

2. ENGINE-BLEED VALVE FILTER - CLEANING BY ULTRASONIC METHOD

A. General

- (1) The engine-bleed valve filters are installed in the LH/RH pylons.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-43-00/100	- COMPONENT LOCATION
AMM TASK 36-11-05-000-802-A/400	FILTER - REMOVAL
AMM TASK 36-11-05-400-802-A/400	FILTER - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
414	414DB	LH Pylon
424	424DB	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 414DB and 424DB ([AMM MPP 06-43-00/100](#)).

WARNING: MAKE SURE THAT THE AIRCRAFT IS IN A SAFE CONDITION BEFORE YOU DO THE MAINTENANCE PROCEDURES. THIS IS TO PREVENT INJURY TO PERSONS AND/OR DAMAGE TO THE EQUIPMENT.

- (2) Remove the Engine-Bleed Valve Air Filter ([AMM TASK 36-11-05-000-802-A/400](#)).



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- J. Cleaning Engine-Bleed Valve Filter by Ultrasonic Method ([Figure 701](#))

SUBTASK 130-002-A

- (1) To do the procedure, refer to the last revision of Hamilton Standard CMM 21-32-23.

- K. Follow-on

SUBTASK 842-002-A

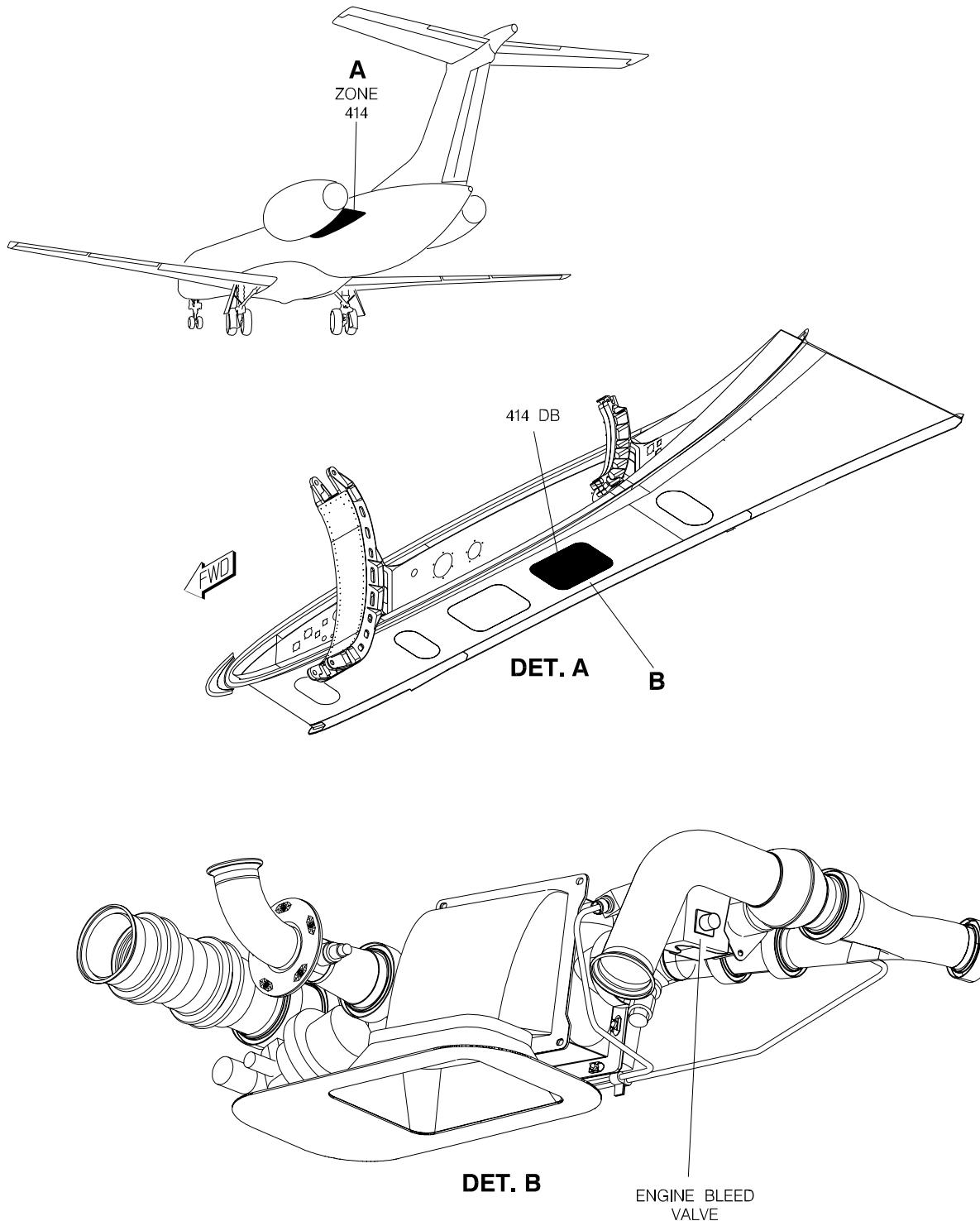
- (1) Install access panels 414DB and 424DB ([AMM MPP 06-43-00/100](#)).

- (2) Install the engine-bleed valve air filter ([AMM TASK 36-11-05-400-802-A/400](#)).

EFFECTIVITY: PRE-MOD. S.B. 145-36-0028

Engine Bleed Valve - Location

Figure 701



145MM36002.MCE

TASK 36-11-05-100-802-A
EFFECTIVITY: PRE-MOD. S.B. 145-36-0028
3. ENGINE-BLEED VALVE AIR FILTER - CLEANING BY AIR BLAST METHOD
A. General

- (1) This task gives the procedures to clean the engine-bleed valve air filters.
- (2) The engine-bleed valve air filters are installed in the LH/RH pylons.

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM MPP 06-43-00/100	- COMPONENT LOCATION
AMM TASK 20-40-02-910-801-A/200	STATIC GROUNDING - STANDARD PRACTICES
AMM TASK 36-11-05-000-802-A/400	FILTER - REMOVAL
AMM TASK 36-11-05-400-802-A/400	FILTER - INSTALLATION

C. Zones and Accesses

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
414	414DB	LH Pylon
424	424DB	RH Pylon

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
Commercially available	Ladder	To get access to the pylon	1
Commercially available	Goggles	To protect your eyes	1
Commercially available	Gloves	To protect your hands	1
Locally available	Respirator mask	To protect your respiratory tract	
Locally available	Source of dry and filtered compressed air	To blow and dry	1

F. Consumable Materials

<i>SPECIFICATION (BRAND)</i>	<i>DESCRIPTION</i>	<i>QTY</i>
Electro 140	Contact Cleaner, LPS	AR
Petroleum solvent AMS3160	General agent used to clean	AR



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G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the LH/RH pylons

I. Preparation

SUBTASK 841-003-A

WARNING: MAKE SURE THAT THE AIRCRAFT IS IN A SAFE CONDITION BEFORE YOU DO THE MAINTENANCE PROCEDURES. THIS IS TO PREVENT INJURY TO PERSONS AND/OR DAMAGE TO THE EQUIPMENT.

- (1) Keep the aircraft grounded ([AMM TASK 20-40-02-910-801-A/200](#)).
- (2) Put the ladder in the work area.
- (3) Remove access panels 414DB and 424DB ([AMM MPP 06-43-00/100](#)).

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.

- (4) Remove the Engine-Bleed Valve Air Filter ([AMM TASK 36-11-05-000-802-A/400](#)).

J. Cleaning of Engine-Bleed Valve Air Filter by Air Blast Method ([Figure 702](#))

SUBTASK 170-002-A

WARNING: USE EYE AND HAND PROTECTION WHEN YOU USE AN AIR SOURCE TO CLEAN. CONTAMINANTS CAN BECOME AIRBORNE AND CAUSE INJURY TO YOUR EYES AND HANDS.

CAUTION: DO NOT USE METAL WOOL, METAL BRUSHES, OR ABRASIVES TO CLEAN PARTS. THESE MATERIALS CAN CAUSE SCRATCHES AND DAMAGE TO PARTS. DO NOT USE PAPER TOWELS TO DRY PARTS. PAPER TOWELS CAN LET CONTAMINANTS STAY ON PARTS,

- (1) Blow air at 25 psi maximum pressure from the regulated source of air through the engine-bleed valve air filter to remove contamination.

WARNING: DO NOT LET PETROLEUM SOLVENT GET IN TOUCH WITH YOUR SKIN OR EYES. DO NOT BREATHE THE FUMES FROM PETROLEUM SOLVENT. ALWAYS PUT ON GOGGLES, GLOVES, AND RESPIRATOR MASK WHEN YOU USE PETROLEUM SOLVENT CAN CAUSE INJURY TO YOUR SKIN, EYES, AND RESPIRATORY TRACT.

- (2) Clean the engine-bleed valve air filter with an electro-contact cleaning solution or equivalent with petroleum solvent at ambient temperature for approximately 10 minutes.
- (3) To remove the remaining cleaning solution, let the air filter dry or blow it with a 25 psi maximum pressure from the source of air through the engine-bleed air filter.



- NOTE:
- Make sure that no remaining cleaning solution stays in the cavity of the engine-bleed valve air filter.
 - Use visual inspection aids as necessary to make sure that dirt and contamination are correctly removed.

K. Follow-on

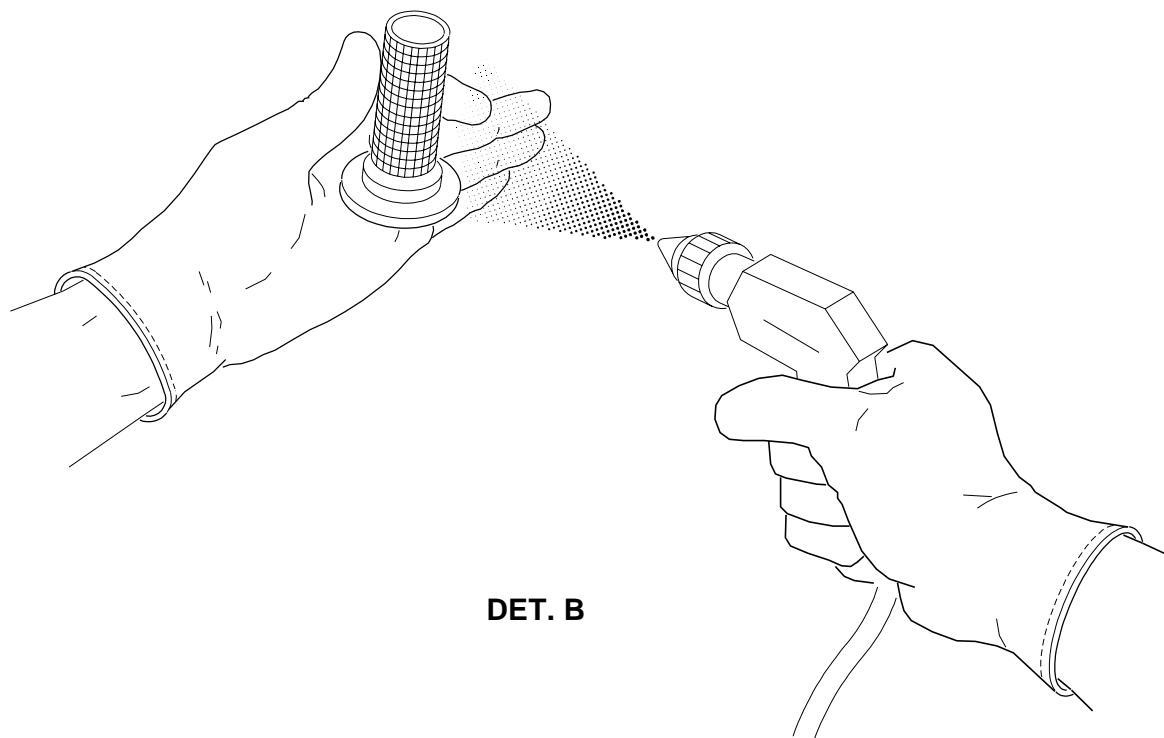
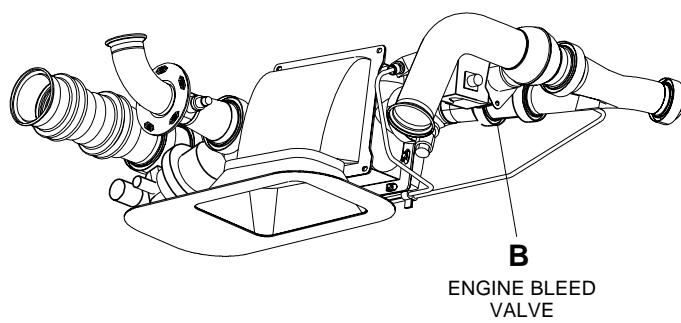
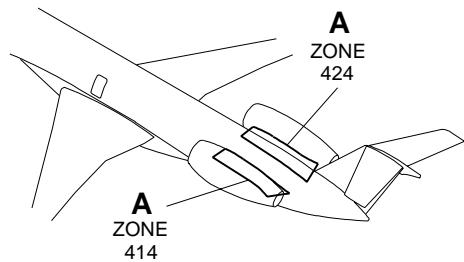
SUBTASK 842-003-A

- (1) Install the engine-bleed valve air filter ([AMM TASK 36-11-05-400-802-A/400](#)).
- (2) Install access panels (414DB and 424DB) ([AMM MPP 06-43-00/100](#)).
- (3) Remove the ladder from the work area.

EFFECTIVITY: PRE-MOD. S.B. 145-36-0028

Engine-Bleed Valve Air Filter - Cleaning

Figure 702



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