

HIGH STAGE VALVE - CLEANING/PAINTING

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to clean the high-stage valve filter.
- 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
36-11-02-100-801-A ◆	HIGH-STAGE VALVE FILTER - CLEANING BY ULTRASONIC METHOD	ALL
36-11-02-100-802-A	HIGH-STAGE VALVE FILTER - CLEANING BY AIR BLAST METHOD	ALL

TASK 36-11-02-100-801-A

EFFECTIVITY: ALL

2. HIGH-STAGE VALVE FILTER - CLEANING BY ULTRASONIC METHOD

A. General

- (1) The high stage valves are installed in the LH/RH nacelles, on the top of the engines.
- (2) This task gives the procedure to clean the high-stage valve filter.

B. References

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

C. Zones and Accesses

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

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ultrasonic Bath	To clean parts	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Goggles	For eye protection	1
Commercially available	Gloves	For hand protection	1
Locally available	Source of dry and filtered compressed air or nitrogen	To blow dry air into the component	1
Commercially available	Ladder	To get access to the work area	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
AMS3160	Petroleum solvent	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH/RH Engines

I. Preparation

SUBTASK 841-002-A

- (1) Keep the aircraft grounded ([AMM TASK 20-40-02-910-801-A/200](#)).
- (2) Put the ladder on the work area.
- (3) Remove the upper-cowling access panel 412BT or 422BT ([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 high-stage valve filter ([AMM TASK 36-11-02-000-802-A/400](#)).

J. Clean High-Stage Valve Filter by Ultrasonic Method ([Figure 701](#))

SUBTASK 130-002-A

- (1) Clean the high-stage valve filter as follows:

NOTE: Refer to the last revision of CMM 21-32-20 of Hamilton Standard, as necessary.

WARNING: THE USE OF COMPRESSED AIR CAN CREATE AN ENVIRONMENT OF PROPELLED FOREIGN OBJECTS THAT CAN ENTER THE EYES AND CAUSE INJURY. PUT ON EYE PROTECTION AND DO NOT USE MORE THAN 207 KPa (30 psi). IF YOU DO NOT OBEY THIS PRECAUTION, INJURY TO THE EYES CAN OCCUR.

- (a) Blow 25 psig maximum compressed air through the high-stage valve filter to remove contamination.

WARNING: DO NOT GET THE CLEANING MATERIAL ON YOUR SKIN OR IN YOUR EYES OR MOUTH. PUT ON APPROVED PROTECTIVE CLOTHING, GOGGLES AND GLOVES. ALWAYS OBEY THE MANUFACTURER'S HEALTH AND SAFETY PRECAUTIONS WHEN YOU USE THE CLEANING MATERIAL. THE CLEANING MATERIAL IS DANGEROUS AND CAN CAUSE AN INJURY.

WARNING: CLEANING PRODUCTS ARE TOXIC AND FLAMMABLE. A GOOD AIRFLOW MUST BE AVAILABLE WHEN YOU DO THE WORK IN CLOSED AREAS.

WARNING: SOLVENTS ARE HAZARDOUS MATERIALS. REFER TO PRODUCT/MATERIAL SAFETY DATA SHEETS AND LOCAL REQUIREMENTS FOR CORRECT HANDLING PROCEDURES.

- (b) Clean the air filter in an ultrasonic cleaner tank or equivalent with petroleum solvent (AMS3160), at ambient temperature for approximately 10 minutes.
- (c) Blow compressed air, with a pressure of 25 psig maximum, through the high-stage valve filter to remove any remaining contamination.

K. Follow-on

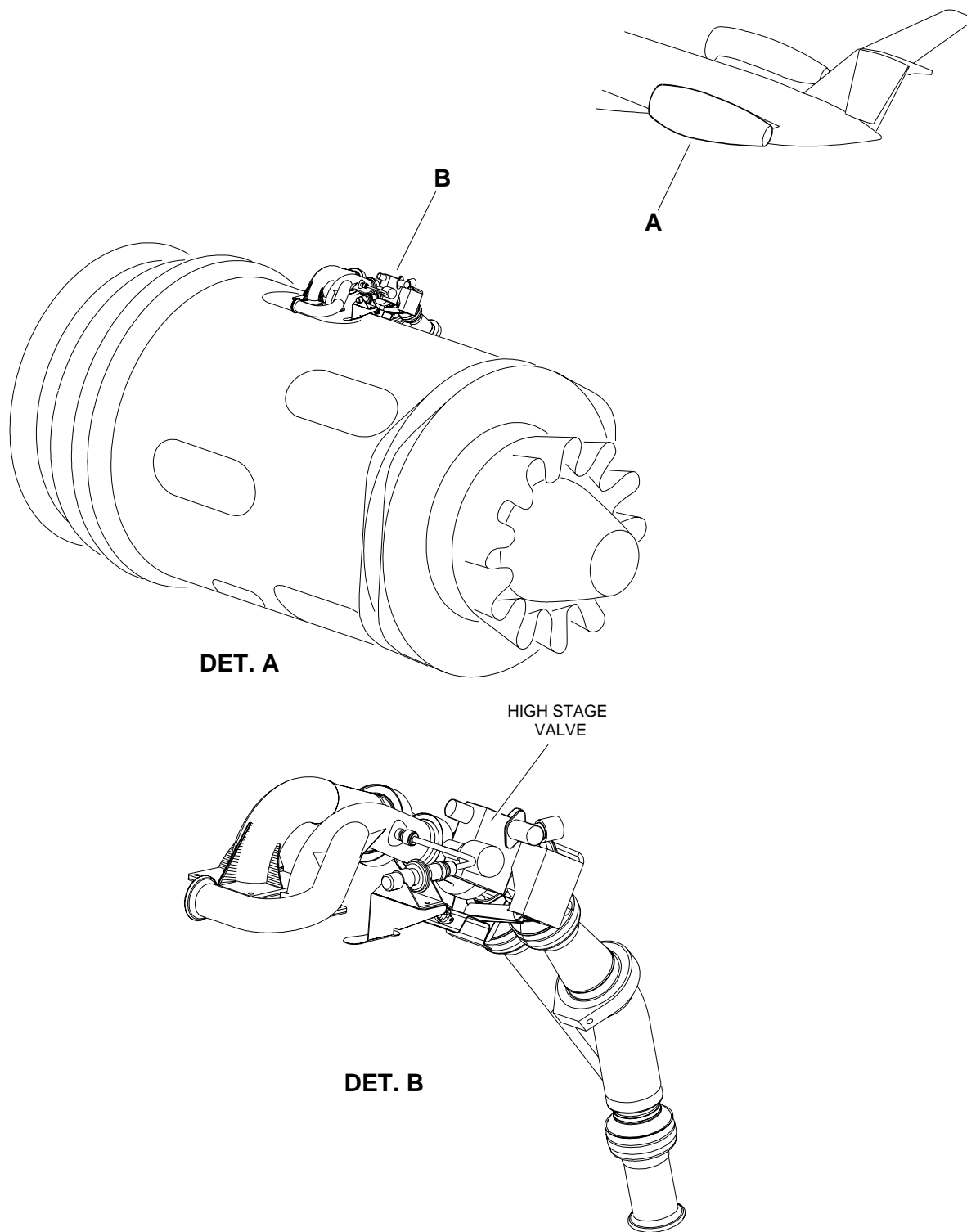
SUBTASK 842-002-A

- (1) Install the high-stage valve filter ([AMM TASK 36-11-02-400-802-A/400](#)).
- (2) Install the upper-cowling access panel 412BT or 422BT ([AMM MPP 06-43-00/100](#)).
- (3) Remove the ladder from the work area.

EFFECTIVITY:: ALL

High-Stage Valve Filter - Location

Figure 701



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TASK 36-11-02-100-802-A

EFFECTIVITY: ALL

3. HIGH-STAGE VALVE FILTER - CLEANING BY AIR BLAST METHOD

A. General

(1) The high stage valves are installed in the LH/RH nacelles, on the top of the engines.

B. References

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

C. Zones and Accesses

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

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the pylon	1
Commercially available	Goggles	For protection of your eyes	1
Commercially available	Gloves	For protection of your hands	1
Locally available	Source of dry and filtered compressed air	To blow contamination away and dry parts	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Electro 140	Contact Cleaner, LPS	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH/RH Engines

I. Preparation

SUBTASK 841-003-A

- (1) Keep the aircraft grounded ([AMM TASK 20-40-02-910-801-A/200](#)).
- (2) Put a ladder in the work area.
- (3) Remove the upper cowling access panel 412BT or 422BT ([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 high-stage valve filter ([AMM TASK 36-11-02-000-802-A/400](#)).

J. Clean High-Stage Valve 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.

- (1) Blow air at 25-psi maximum pressure from the regulated air source to remove heavy contaminants.
- (2) Spray the high stage valve filter with an electro-contact cleaning solution.
- (3) To remove the residual cleaning solution, let the filter air-dry or blow on it with a 25-psi maximum pressure from the air source.

K. Follow-on

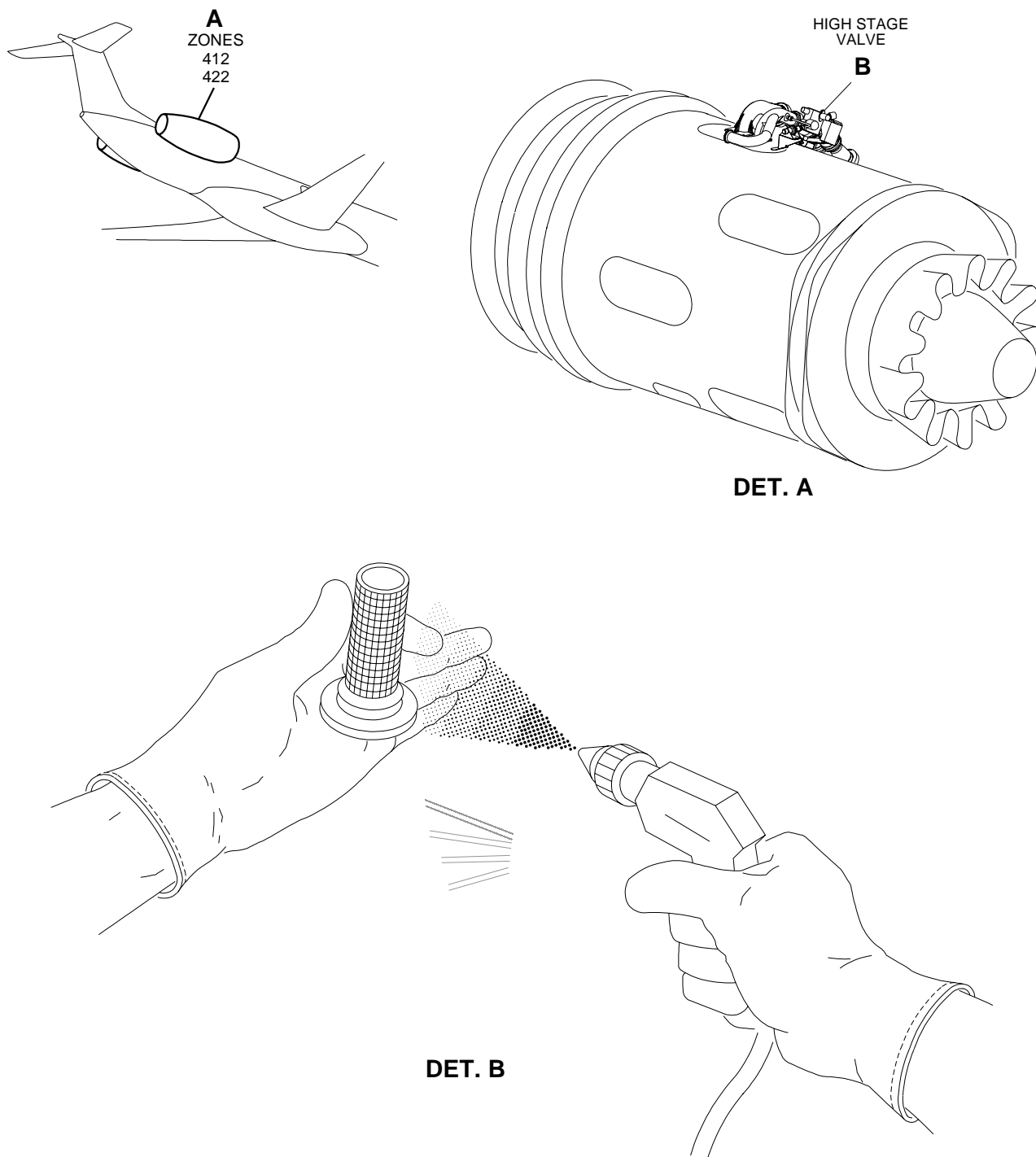
SUBTASK 842-003-A

- (1) Install the high-stage valve filter ([AMM TASK 36-11-02-400-802-A/400](#)).
- (2) Install the upper cowling access panel 412BT or 422BT ([AMM MPP 06-43-00/100](#)).
- (3) Remove the ladder from the work area.

EFFECTIVITY:: ALL

High-Stage Valve Filter - Cleaning

Figure 702



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