



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

SERVO CONTROLLED BLEED AIR VALVE - CLEANING/PAINTING

EFFECTIVITY: FOR AIRCRAFT WITH APU T-62T-40C14

1. General

- A. This section gives the procedure to clean the APU bleed-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
36-12-03-130-801-A	APU-BLEED VALVE FILTER - CLEANING	FOR AIRCRAFT WITH APU T-62T-40C14



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MAINTENANCE MANUAL

TASK 36-12-03-130-801-A

EFFECTIVITY: FOR AIRCRAFT WITH APU T-62T-40C14

2. APU-BLEED VALVE FILTER - CLEANING

A. General

- (1) This task gives the procedure to clean the APU bleed-valve filter.
- (2) The APU bleed-valve filter is installed in the APU bleed valve.

B. References

REFERENCE	DESIGNATION
AMM MPP 20-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 36-12-03-000-803-A/400	APU-BLEED VALVE FILTER - REMOVAL
AMM TASK 36-12-03-400-803-A/400	APU-BLEED VALVE FILTER - INSTALLATION
AMM TASK 49-13-00-910-803-A/200	APU - SHUTDOWN
AMM TASK 71-00-01-910-804-A/200	ENGINE STOP PROCEDURE

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Thermostatically Controlled Ultrasonic bath cleaner device	Cleaning by ultrasonic process	
Commercially available	Safety goggles	Protection for the eyes	
Commercially available	Rubber gloves	Protection for the hands	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Stiff bristle brush	Clean the filter	

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MEP 21-018	Removegrax MLS-12E	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

Not Applicable

I. Preparation

SUBTASK 940-002-A

- (1) Make sure that the aircraft is safe for maintenance ([AMM MPP 20-00-00/200](#)).
- (2) Make sure that the APU is not in operation ([AMM TASK 49-13-00-910-803-A/200](#)).
- (3) Make sure that the engine is not in operation ([AMM TASK 71-00-01-910-804-A/200](#)).
- (4) Use a workstand (or the multipurpose ladder) to get access to the APU bleed valve filter.
- (5) Remove the APU bleed-valve air filter ([AMM TASK 36-12-03-000-803-A/400](#)).

NOTE: After you remove the valve filter, inspect the filter housing for dirt and contaminants. If dirt or contaminants are found, clean the filter cavity with a pneumatic vacuum device, or other method, make sure that no residues are left in the cavity. Use visual inspection aids as necessary to make sure that dirt and contamination are correctly removed.

J. Cleaning of the APU Bleed Valve Filter by Ultrasonic Method

SUBTASK 130-002-A

WARNING: DO NOT USE COMPRESSED OR SHOP AIR WITH A PRESSURE OF MORE THAN 30 PSIG TO CLEAN THE FILTER. USE OF GOGGLES OR A FACE SHIELD FOR EYE PROTECTION REQUIRED. DO NOT POINT THE AIR AT YOUR SKIN. FAILURE TO OBEY THESE INSTRUCTIONS, MAY RESULT IN PERSONEL INJURY AND OR DAMAGE TO THE EQUIPMENT.

WARNING: DURING THE CLEANING PROCEDURE, DO NOT LET THE CLEANING SOLUTION TOUCH YOU AND DO NOT BREATHE ITS VAPORS OR MISTS. DO THE PROCEDURE IN AN AREA WITH A GOOD AIRFLOW. PUT ON SAFETY CLOTHES, GOGGLES, AND GLOVES.

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

- (1) To do the cleaning of the APU bleed-valve filter by ultrasonic method, do as follows:
 - (a) Use safety goggles and gloves to do the cleaning.
 - (b) Put the APU bleed-valve filter horizontally in a suitable container and put in a degreaser solution (Removegrax MLS-12E) at 135 to 145°F (57 to 63°C) for 15 minutes.
 - (c) Remove the filter APU bleed-valve filter from the degreaser solution (Removegrax MLS-12E) and use a stiff bristle brush to loosen contamination on the inside of the filter.
 - (d) Return the filter to the degreaser solution (Removegrax MLS-12E) at 135 to 145°F (57 to 63°C) for 15 minutes.

- (e) Remove the APU bleed-valve filter from the degreaser solution (Removegrax MLS-12E) and immediately immerse it in clean water at 110 to 120°F (43 to 49°C) for five minutes or spray it with clean warm water at 30 PSIG for a minimum of two minutes.
- (f) Flush the APU bleed-valve filter from the outside to the inside with the Cleaner solution (alkaline aqueous cleaner 815MX) at 135 to 145°F (57 to 63°C).
- (g) Immerse the APU bleed-valve filter in clean water at 110 to 120°F (43 to 49°C) for five minutes or spray it with warm water at 30 PSIG for a minimum of two minutes.
- (h) Put the APU bleed-valve filter horizontally in a clean, thermostatically controlled ultrasonic bath of the degreaser (Removegrax MLS-12E) at 135 to 145°F (57 to 63°C) for 20 minutes.
- (i) Rotate the APU bleed-valve filter at five minutes intervals.
- (j) Remove the APU bleed-valve filter from the bath and immediately immerse it in clean water at 110 to 120°F (43 to 49°C) for five minutes or spray it with clean warm water at 30 PSIG for a minimum of two minutes.
- (k) Dry the filter with clean filtered compressed or shop air.

K. Follow-on

SUBTASK 940-003-A

- (1) Install the APU bleed-valve filter ([AMM TASK 36-12-03-400-803-A/400](#)).
- (2) Remove from the work area all tools, equipment and materials that you used.
- (3) Remove the workstand (or the multipurpose ladder) from the aircraft.