

## STARTER CONTROL VALVE - CLEANING/PAINTING

*EFFECTIVITY: ALL*

1. General

- A. This section gives the procedure to clean the starter control-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
80-10-02-100-801-A ◆	STARTER CONTROL-VALVE FILTER - CLEANING	ALL

TASK 80-10-02-100-801-A

EFFECTIVITY: ALL

## 2. STARTER CONTROL-VALVE FILTER - CLEANING

### A. General

- (1) This task gives the procedure to clean the starter control-valve filter.
- (2) This task is valid for both LH and RH engines.

### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 71-12-01-000-801-A/400</a>	ENGINE LOWER COWLING - OPENING
<a href="#">AMM TASK 71-12-01-400-801-A/400</a>	ENGINE LOWER COWLING - CLOSING
<a href="#">AMM TASK 80-10-02-000-802-A/400</a>	STARTER CONTROL-VALVE FILTER - REMOVAL
<a href="#">AMM TASK 80-10-02-400-802-A/400</a>	STARTER CONTROL-VALVE FILTER - INSTALLATION

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
413		LH Engine Lower Cowling
423		RH Engine Lower Cowling

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Compressed-air source		
Commercially available	Ultrasonic cleaner tank		

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the starter control valve	1
Commercially available	Plastic squeeze bottle	To flush the filter element with electrocleaner solution	1

### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Turco C MXP	electrocleaner solution	AR
Commercially available	hydrochloric acid (35% HCl, commercial grade)	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Engine

I. Preparation

*SUBTASK 841-002-A*

- (1) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:
  - START 1/2.
- (2) Open the lower cowling ( [AMM TASK 71-12-01-000-801-A/400](#)) to get access to the starter control valve.
- (3) Remove the starter control-valve filter ( [AMM TASK 80-10-02-000-802-A/400](#)).

J. Clean Start Control-Valve Filter

*SUBTASK 160-002-A*

- (1) Do the procedure below to remove the grease and carbon from the filter:
- (2) Flush the filter element internally and externally with clean water at a high pressure.
- (3) Put the filter element in a beaker with the open end of the filter down and fill the beaker with an electrocleaner solution.
- (4) Put the beaker, with the filter element, in an ultrasonic cleaner tank. Fill the tank with water until the water level is 3/8 in (1 cm) from top of the beaker.
- (5) Operate the ultrasonic cleaner tank for five minutes. Remove the filter element and discard the dirty electrocleaner solution. Flush the filter element and the beaker with clean electrocleaner solution with the use of a plastic squeeze bottle.
- (6) Repeat the procedures given in steps (3) to (5), as many times as necessary, until the electrocleaner solution remains clean after five minutes of operation of the ultrasonic cleaner tank.

**WARNING: WEAR PROTECTIVE GLASSES WHEN YOU USE THE COMPRESSED AIR SOURCE TO DRY THE FILTER ELEMENT. IF ANY LOOSE PARTICLES GET INTO YOUR EYES, INJURIES CAN HAPPEN.**

- (7) Remove the filter element from the beaker and flush internally and externally with clean water at a high pressure. Dry the filter element with compressed air.
- (8) If the procedures above are not effective, proceed as follows:
- (9) Put the filter element in an electrocleaner solution for four to six minutes. During this time, make the filter element an anode for one or two minutes at 4 to 7 V DC. Flush the filter element in water.

- (10) Put the filter element in a solution of equal parts by volume of hydrochloric acid and water, at room temperature for one-half to one minute. Flush the filter element with water.
- (11) Put the filter element in electrocleaner solution for four to six minutes. Flush the filter element with water.

K. Follow-on

*SUBTASK 842-002-A*

- (1) Install the SCV filter ( [AMM TASK 80-10-02-400-802-A/400](#)).
- (2) Close the lower cowling ( [AMM TASK 71-12-01-400-801-A/400](#)).
- (3) On the circuit breaker panel, remove the DO-NOT-CLOSE tags from the circuit breakers below and close them:
  - START 1/2.