



## AIRCRAFT MAINTENANCE MANUAL

### APU STARTER/GENERATOR - INSPECTION/CHECK

EFFECTIVITY: ALL

#### 1. General

- A. This section gives the procedures to do the detailed visual inspection of the APU starter/generator brushes and the visual inspection of the APU starter/generator installation.
- 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
24-34-01-200-801-A	APU STARTER/GENERATOR BRUSHES - ALL DETAILED VISUAL INSPECTION	
24-34-01-200-802-A	APU STARTER/GENERATOR INSTALLA- TION - VISUAL INSPECTION	



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TASK 24-34-01-200-801-A

EFFECTIVITY: ALL

2. APU STARTER/GENERATOR BRUSHES - DETAILED VISUAL INSPECTION

A. General

- (1) The function of this task is to do an inspection on the brushes for their remaining life.

B. References

REFERENCE	DESIGNATION
AMM TASK 24-34-01-000-801-A/400	APU STARTER/GENERATOR - REMOVAL
AMM TASK 24-34-01-400-801-A/400	APU STARTER GENERATOR - INSTALLATION
AMM TASK 49-11-00-000-801-A/400	APU COWLING - REMOVAL
AMM TASK 49-11-00-400-801-A/400	APU COWLING - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
313		Tail cone

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	Tail cone

I. Preparation

SUBTASK 841-002-A

- (1) Remove the APU cowling ( [AMM TASK 49-11-00-000-801-A/400](#)).

J. Inspect (Detailed Inspection) APU Starter/Generator Brushes ([Figure 601](#))

SUBTASK 220-002-A

- (1) Remove the brush access cover.
- (2) Use a stiff wire hook and remove the brushes from their holders.

- (3) Make an analysis of the remaining life of the brushes. Do a check of the wear groove, on the side of the brushes.
- (4) If the wear groove shows less than 1/2 of remaining life, replace all brushes. For this, it is necessary to replace the APU starter/generator with a different one, in conditions for flight ( [AMM TASK 24-34-01-000-801-A/400](#) and [AMM TASK 24-34-01-400-801-A/400](#)). Send the starter/generator with the worn-out brushes to a workshop for replacement of the brushes. Refer to the latest revision of the Component Maintenance Manual with Illustrated Parts List for DC Starter-Generator, 23080 Series III by Lucas Aerospace.
- (5) If the wear groove is within the limits, install the brushes back on their holders.
- (6) Install the brush access cover.

**K. Follow-on**

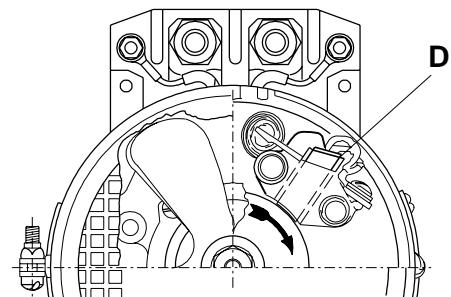
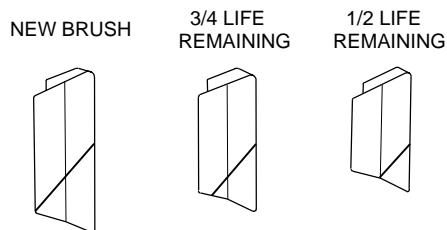
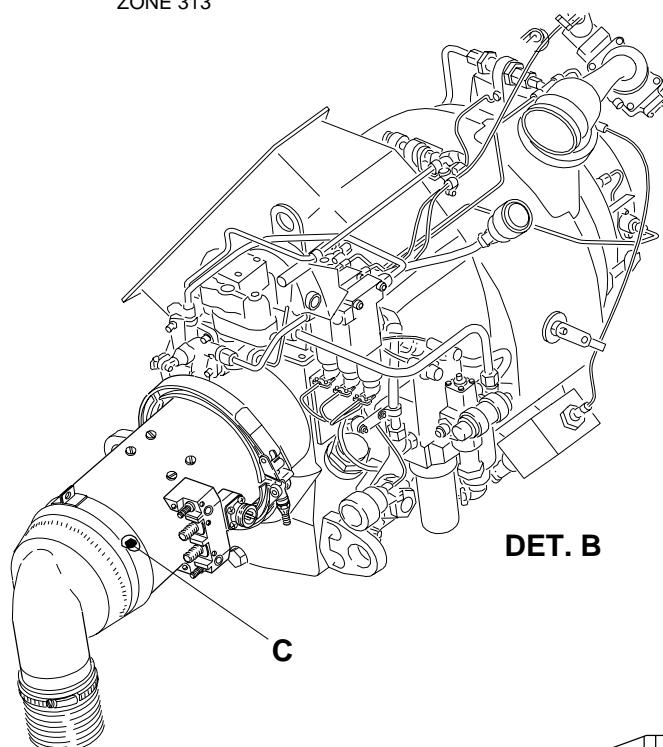
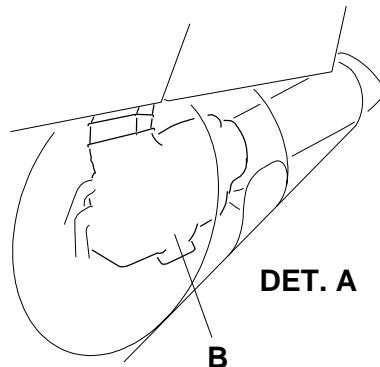
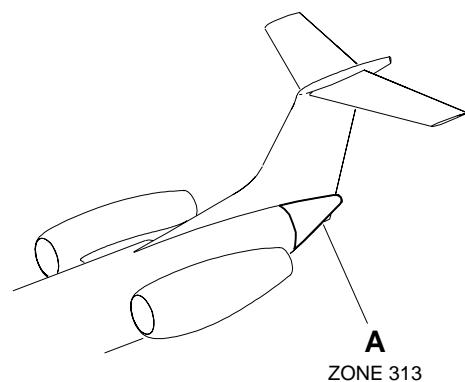
**SUBTASK 842-002-A**

- (1) Install the APU cowling ( [AMM TASK 49-11-00-400-801-A/400](#)).

**EFFECTIVITY: ALL**

APU Starter/Generator Brushes - Detailed Visual Inspection

Figure 601



BRUSHES WEAR LINE REFERENCE

**DET. D**

APU STARTER/GENERATOR

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TASK 24-34-01-200-802-A

EFFECTIVITY: ALL

3. APU STARTER/GENERATOR INSTALLATION - VISUAL INSPECTION

A. General

- (1) The function of this task is to do a check of the APU starter/generator installation for general conditions.

B. References

REFERENCE	DESIGNATION
AMM TASK 49-11-00-000-801-A/400	APU COWLING - REMOVAL
AMM TASK 49-11-00-400-801-A/400	APU COWLING - INSTALLATION
AMM TASK 49-15-00-000-801-A/400	APU COWLING - REMOVAL
AMM TASK 49-15-00-400-801-A/400	APU COWLING - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
300	313	Tail cone

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

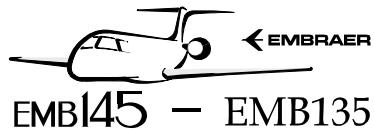
QTY	FUNCTION	PLACE
1	Does the task	Tail cone

I. Preparation

SUBTASK 841-003-A

NOTE: You must do the inspection in usually available lighting conditions (daylight, hangar lighting, flashlights, or droplight).

- (1) Remove the APU cowling ( [AMM TASK 49-11-00-000-801-A/400](#) ) or ( [AMM TASK 49-15-00-000-801-A/400](#) ), as applicable.



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### J. Inspection Procedure ([Figure 602](#))

#### SUBTASK 212-002-A

- (1) Do the inspection as follows:

- (a) Examine the APU starter/generator, air ducts, clamps, and electrical cables for general conditions, clear deterioration, damage, or irregular condition.
  - (b) Examine the electrical connections for overheating or discoloration.

### K. Follow-on

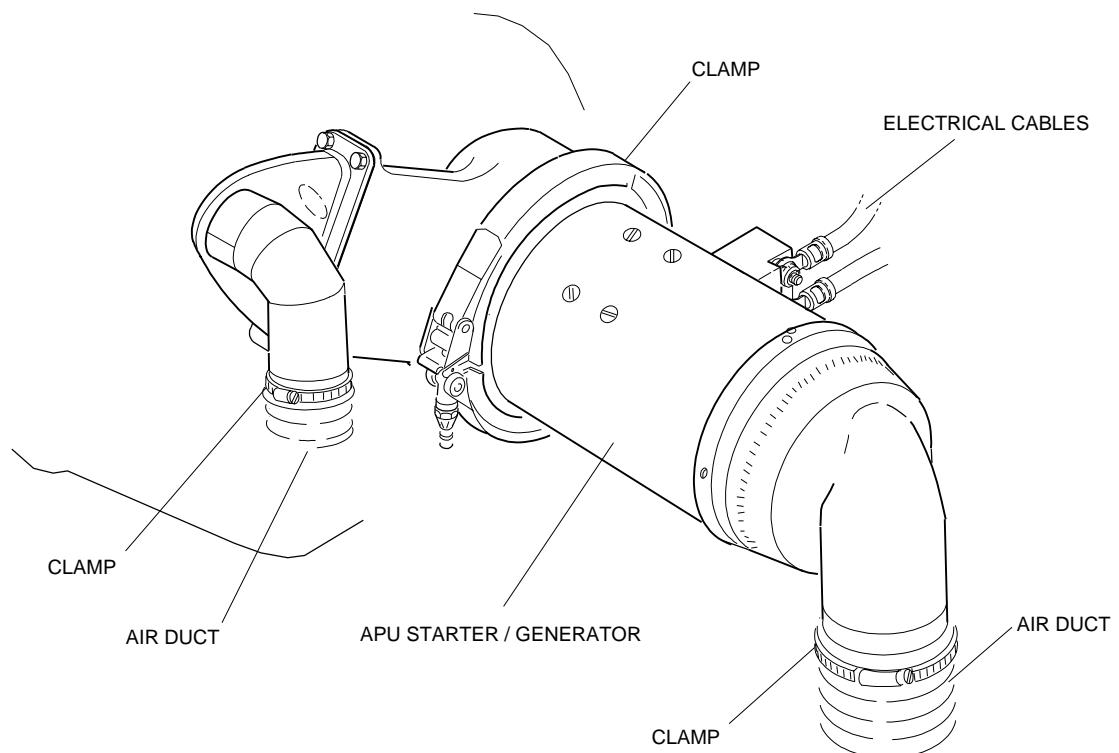
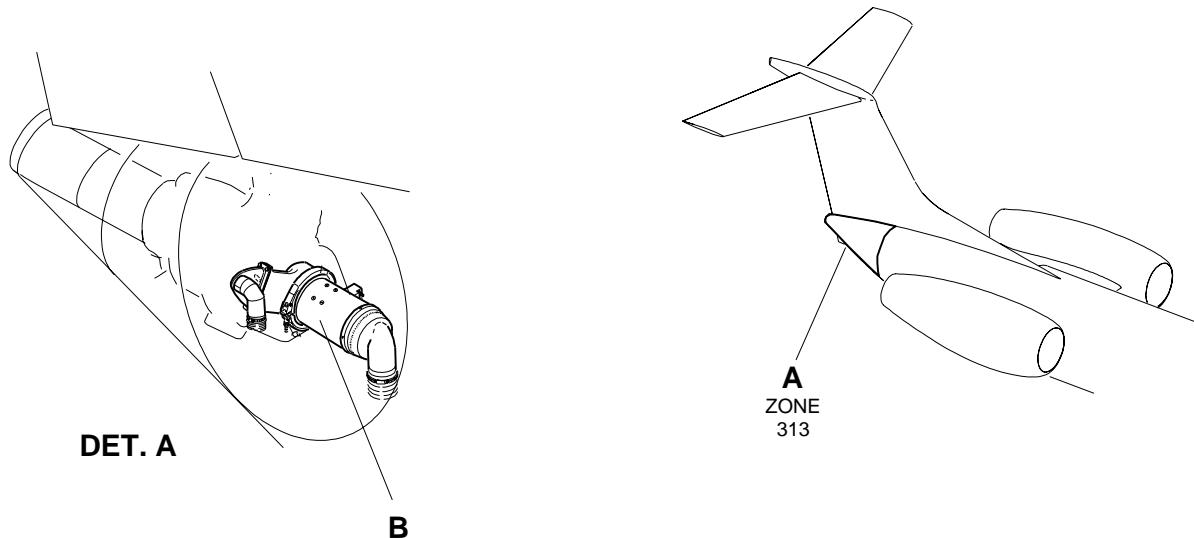
#### SUBTASK 842-003-A

- (1) Install the APU cowling ([AMM TASK 49-11-00-400-801-A/400](#)) or ([AMM TASK 49-15-00-400-801-A/400](#)), as applicable.

**EFFECTIVITY: ALL**

APU Starter/Generator Installation - Visual Inspection

Figure 602


**DET. B**

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