

STARTER/GENERATOR - INSPECTION/CHECK**1. General**

- A. This section has the inspections and checks necessary to keep the starter/generator in a serviceable condition.

TASK 80-10-00-220**2. Starter/Generator Inspection and Checks**

NOTE: This inspections and checks procedure applies only to Lucas Model 23081-023 Starter/Generator. The Aircraft Parts Corporation 300-amp Starter/Generator is a remove-and-replace-only part.

- A. Inspections and Checks.

- (1) Remove starter/generator.
- (2) Visually check commutator for worn, pitted or burned commutator bars.

NOTE: If the commutator bars are damaged, starter/generator must be returned for overhaul.

- (3) Check damper assembly for looseness and excessive wear. Check for loose rivets.

NOTE: If the damper assembly is excessively worn, reveals looseness or has loose rivets, the starter/generator must be returned for overhaul.

- (4) Check drive shaft for worn, chipped, cracked, and/or twisted splines.

NOTE: Any visible damage to drive shaft or splines requires that starter/generator be returned for overhaul.

- (5) Check starter/generator housing for cracks and loose stator poles. Tighten stator poles as necessary and stake screws.

NOTE: If housing is cracked or damaged, return starter/generator for overhaul.

- (6) With brushes removed, rotate armature slowly to feel bearings for roughness.

NOTE: This step does not apply to the 23081-023A, which is not field serviceable.

NOTE: If armature movement is rough, starter/generator must be returned for overhaul.

- (7) Inspect fan for bent or distorted blades, cracks, or looseness.

3. Starter-Generator (Part Number 23081 Series only) Detailed Inspection

- A. General

- (1) This task gives the procedures to do a detailed inspection of the starter-generator (Part Number 23081 Series only).

WARNING: Parts and brushes are not interchangeable between the 23081-023 and 23081-023A.

NOTE: The model 23081-023 starter/generator brushes have a diagonal wear mark that shows when the brush replacement is necessary.

- B. Special Tools

- (1) None

- C. Access

- (1) Remove the left and right upper cowling doors. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.

- D. Do a Detailed Inspection of the Starter-Generator (Part Number 23081 Series Only).

- (1) Examine the starter-generator for condition, security of installation, and signs of overheating.
- (2) Examine the terminal block and the boot for condition, cracks, and security.
- (3) Examine the electrical connections at terminal block for cleanliness, signs of heat or arcing, and signs of damage.
- (4) Examine the quick attach/detach mount for condition, cracks, corrosion, and security of installation.
- (5) Examine the mount clamp for condition, cracks, and security.
- (6) Remove the starter/generator from the airplane. Refer to Starter/Generator - Removal/Installation.
- (7) Examine the starter-generator brushes and brush holders. Refer to Goodrich Component Manual With Illustrated Parts List, DC Starter-Generator 23081 Series I.
- (8) Clean the starter-generator splines. Refer to Starter-Generator Splines Cleaning.
- (9) Install the starter/generator. Refer to Starter/Generator - Removal/Installation.

E. Restore Access

- (1) Install the left and right upper cowling doors. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.

END OF TASK

TASK 80-10-00-960

4. Starter/Generator Restoration

A. General

- (1) This task gives the procedures to do the starter/generator restoration.

B. Special Tools

- (1) None

C. Access

- (1) Remove the left and right upper cowling doors. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.

D. Do the Starter/Generator Restoration.

- (1) Remove the starter/generator from the airplane. Refer to Starter/Generator - Removal/Installation.
- (2) Replace the starter/generator or send the starter/generator to an authorized repair facility for restoration (overhaul).
- (3) Install the starter/generator. Refer to Starter/Generator - Removal/Installation.

E. Restore Access

- (1) Install the left and right upper cowling doors. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.

END OF TASK