

STARTING - GENERAL

1. Scope

A. This chapter contains maintenance information on starter/generators, troubleshooting of starter/generators, brush replacement procedures for selected starter/generators, removal/installation for the starter/generator overheat switch, and removal/installation for the cooling air blast tube.

2. Tools, Equipment and Materials

NOTE: Equivalent substitutes may be used for the following items:

NAME	NUMBER	MANUFACTURER	USE
Digital Voltmeter	Model 87	John Fluke Mfg. Co. 6920 Seaway Blvd. Everett, WA 98206	To measure current, voltage and resistance.
Davco Aero 28C Cart (GPU)	28C	Davco Industries P.O. Box 273 Paso Robles, CA 93446	To provide auxiliary power for ground starting.
Sponge Rubber Padded V Blocks		Locally fabricate	To support starter/generator during brush run-in procedures.
Switch SPST (75 amps DC minimum capacity)		Commercially available	To provide on/off control for brush run-in procedures.
Rheostat (0 to 10 ohms, 15 amp minimum)			To provide variable control for brush run-in procedures.
Tachometer or Stroboscope (0 to 15,000 RPM)			To measure RPM.
Resistor (0.1 ohm, 250 watt)			Used for brush run-in.
Solvent (MIL-PRF-680 or equivalent).			To clean the starter-generator splines
10X Magnifying Glass			To examine for evidence of electrical arcing damage

3. Definition

A. This chapter is divided into sections to aid maintenance technicians in locating information. Consulting the Table of Contents will further assist in locating a particular subject. A brief definition of the sections incorporated in this chapter is as follows:

- (1) The section on starter/generators provides description/operation, troubleshooting, removal/installation, inspection/checks, and cleaning/painting for all starter/generators.
- (2) The section on starter/generator brushes provides maintenance practices for the starter/generator brushes.
NOTE: This section of procedures apply to only the Lear Siegler/Lucas Aerospace Model 23081-023 starter/generator
- (3) The section on starter/generator overheat switch provides removal/installation for the starter/generator overheat switch.
- (4) The section on cooling air blast tubes provides removal/installation procedures for the blast tube.