FILE IN THE

prestolite SERVICE MANUAL

ALD

ALTERNATOR SECTION

(Issued 3-16-78)

VOLTS 12 — VENTILATED Yes — RATED OUTPUT 40 Amperes

BRUSHES 2 — CONTROL Voltage Regulator — ROTATION See tabulation

BEARINGS Sealed, Ball at Drive End. See tabulation for Slip Ring End.

LUBRICATION Bearings are pre-lubricated. No additional lubrication necessary.

BRUSH SPRING TENSION 9.5 to 11 ounces when spring is compressed to 1/4 inch.

BRUSH SPREADER TOOL When reassembling an alternator, it will be necessary to spread the brushes so that they will not interfere with the installation of the rotor.

A tool for spreading the brushes can be fashioned out of 1/8" welding rod or a common coat hanger. See figure 1.

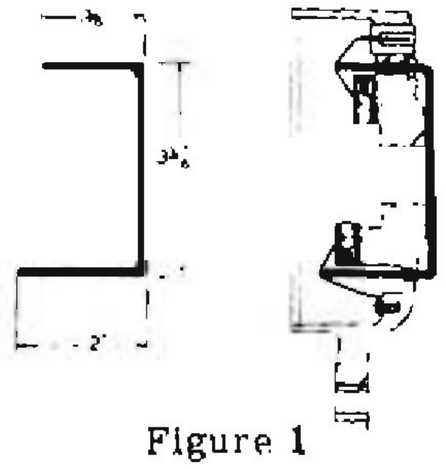


Figure 1

END PLAY Negligible. Unit should rotate freely without binding. A condition of end play would indicate improper assembly, damage or excessive wear.

GROUND POLARITY Negative. NOTE: DO NOT ATTEMPT TO POLARIZE AN ALTERNATOR-DAMAGE MAY OCCUR TO THE ALTERNATOR, REGULATOR or CIRCUITS.

ROTOR CURRENT DRAW (70°F.) 2.3 to 2.4 maximum amperes at 10.0 volts.

OUTPUT TEST (70°F.) 13.2 volts, 10 minimum amperes, 1050 RPM alternator speed.
14.2 volts, 40 minimum amperes, 3750 RPM alternator speed.

UNIT	ROTATION	TYPE SLIP RING BEARING	INTERNAL WIRING
ALD-5001	CWDE	Roller	Figure 2
ALD-5002, S	Bi-directional	Sealed, ball	Figure 3
ALD-5003	Bi-directional	Roller	Figure 2
ALD-5004	Bi-directional	Sealed, ball	Figure 2
ALD-5005	CWDE	Roller	Figure 2
ALD-5006	Bi-directional	Sealed, ball	Figure 3
ALD-5007	Bi-directional	Roller	Figure 2
ALD-5101, S, S-1	Bi-directional	Roller	Figure 2
ALD-5104	Bi-directional	Roller	Figure 2

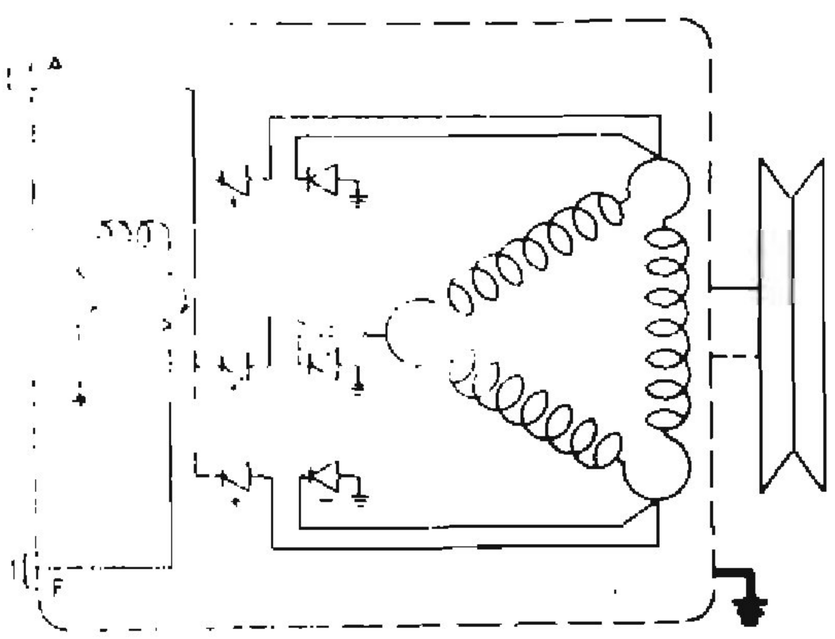


Figure 2

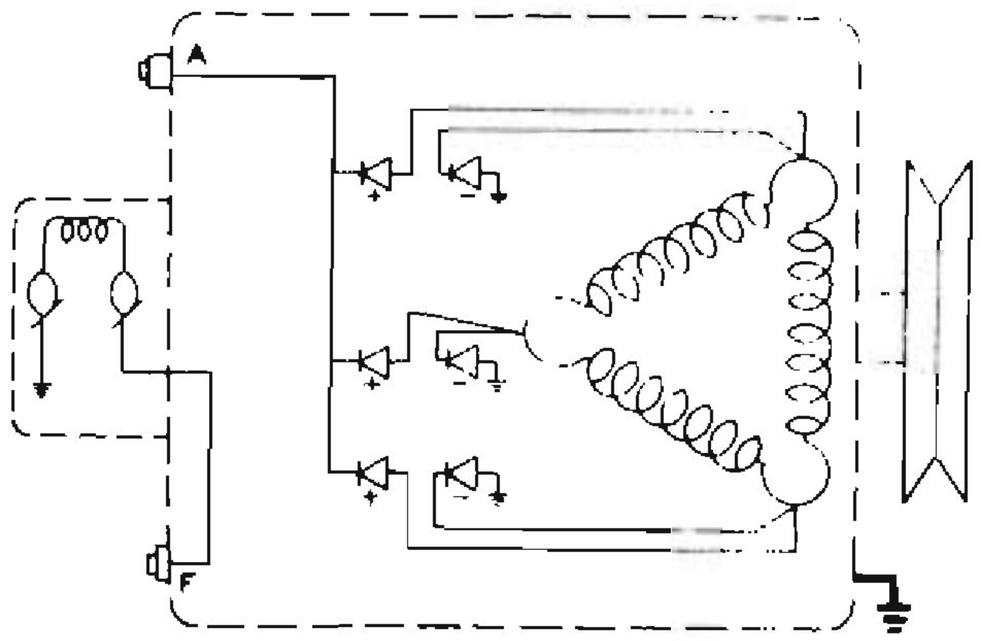


Figure 3