FILE IN THE

prestolite SERVICE MANUAL ALJ

ALTERNATOR SECTION

(Issued 3-16-78)

VOLTS 6 VENTILATED Yes RATED OUTPUT 55 Amperes

BRUSHES 2 CONTROL Voltage Regulator ROTATION Bi-directional

BEARINGS Sealed, Ball at Drive 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.

With the use of an Allen wrench and a piece of stiff wire, the brushes can easily be spread. See figure 1.

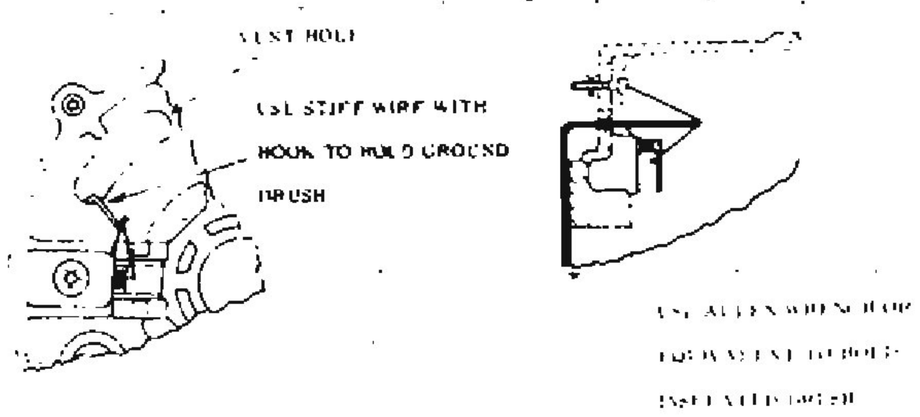


Figure 1.

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

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

ROTOR CURRENT DRAW (70°F.) 2.2 to 2.3 maximum amperes at 5.0 volts.

OUTPUT TEST (70°F.) 6.5 volts, 10 minimum amperes, 1130 RPM alternator speed.
7.1 volts, 55 minimum amperes, 5200 RPM alternator speed.

UNIT	INTERNAL WIRING	GROUND POLARITY	TYPE SLIP RING BEARING
ALJ-5101S, S-1	Figure 2	Negative	Roller
ALJ-5102PS-1	Figure 3	Positive	Sealed ball
ALJ-5102S-1	Figure 2	Negative	Sealed ball

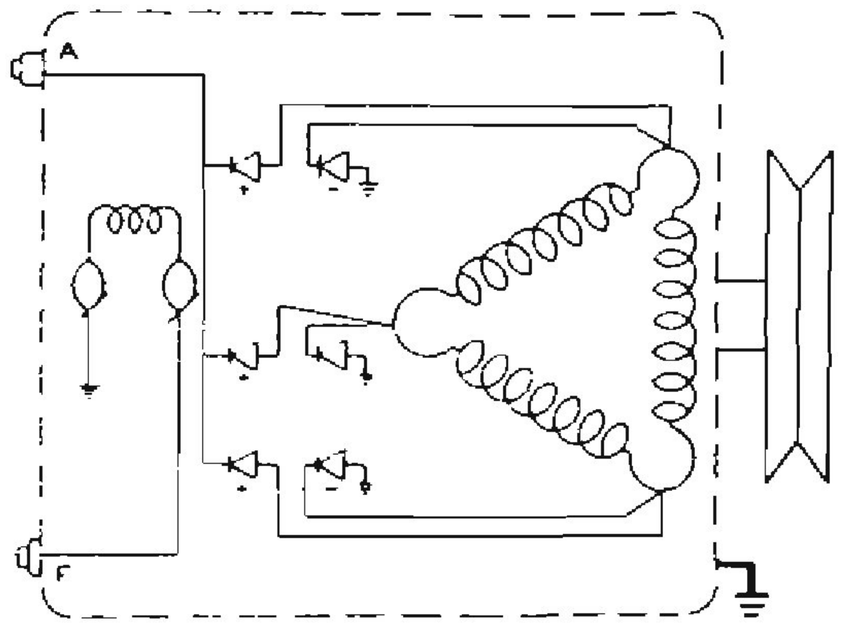


Figure 2

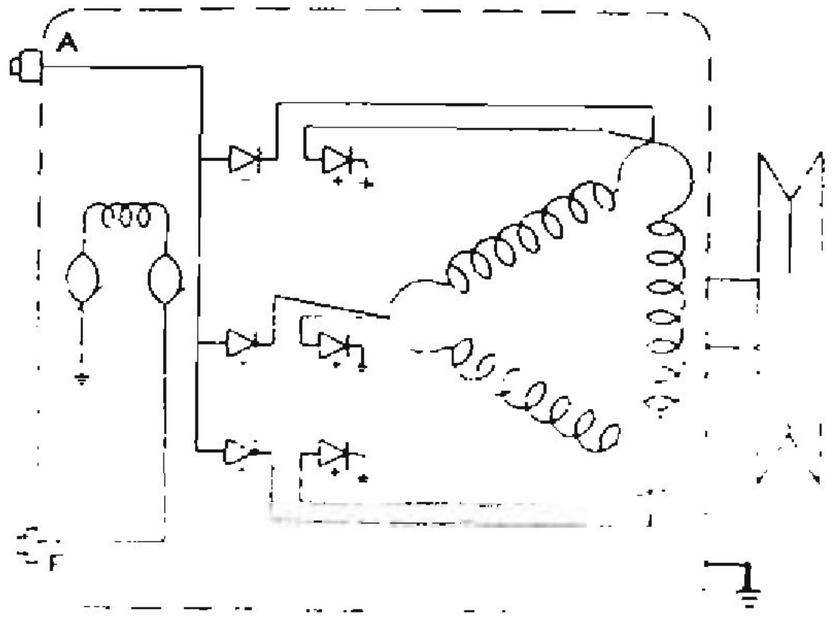


Figure 3