FILE IN THE

prestolite SERVICE MANUAL

ALN

ALTERNATOR SECTION

(Issued 3-16-78)

VOLTS 24 VENTILATED Yes RATED OUTPUT 55 Amperes

BRUSHES 2 CONTROL Voltage Regulator ROTATION Bi-Directional

BEARINGS Sealed, Ball at both ends.

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 inch welding rod or a common coat hanger. See figure 1.

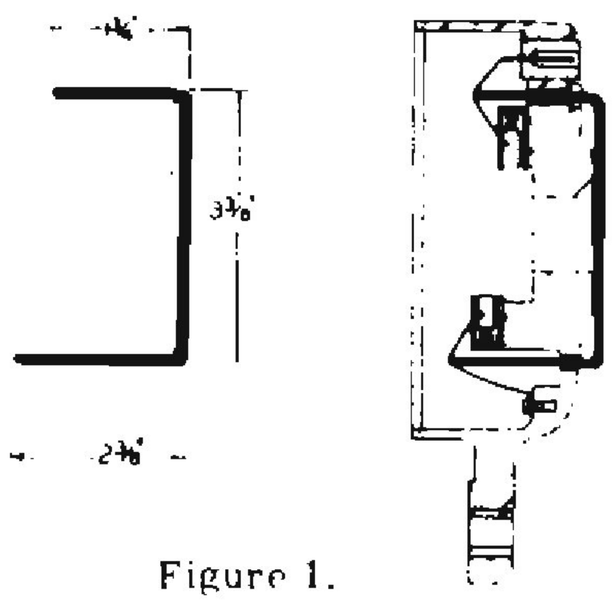


Figure 1.

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

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

ROTOR CURRENT DRAW (70°F) 1.2 to 1.3 Maximum Amperes at 20 volts.

OUTPUT TESTS (70°F) 28.2 volts, 10 Minimum Amperes, 1150 RPM alternator speed.
28.4 volts, 55 Minimum Amperes, 5200 RPM alternator speed.

UNIT	INTERNAL WIRING	GROUND POLARITY
ALN-5001	Fig. 2	NEG.
ALN-5101S-1	Fig. 3	NEG. & POS.
ALN-5102S-1	Fig. 3	NEG. & POS.

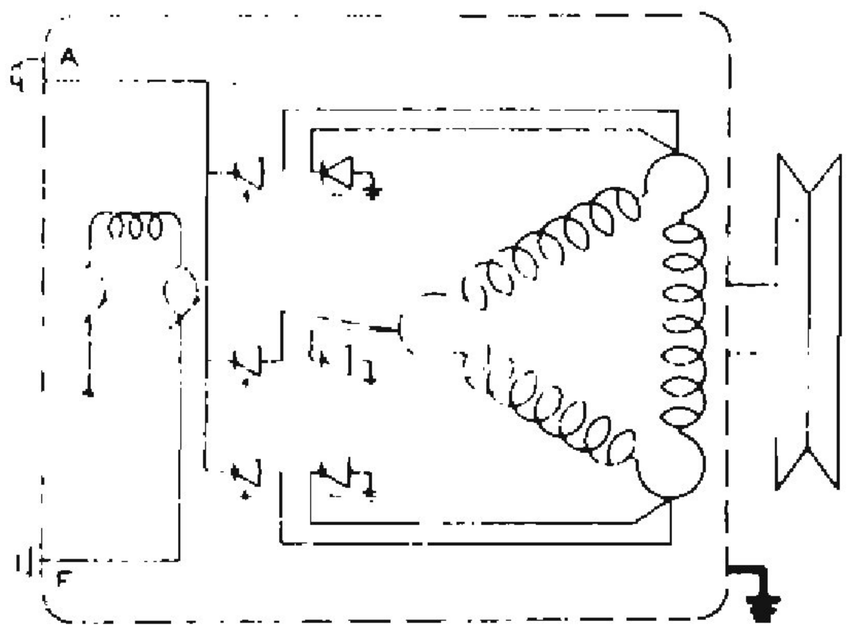


Figure 2

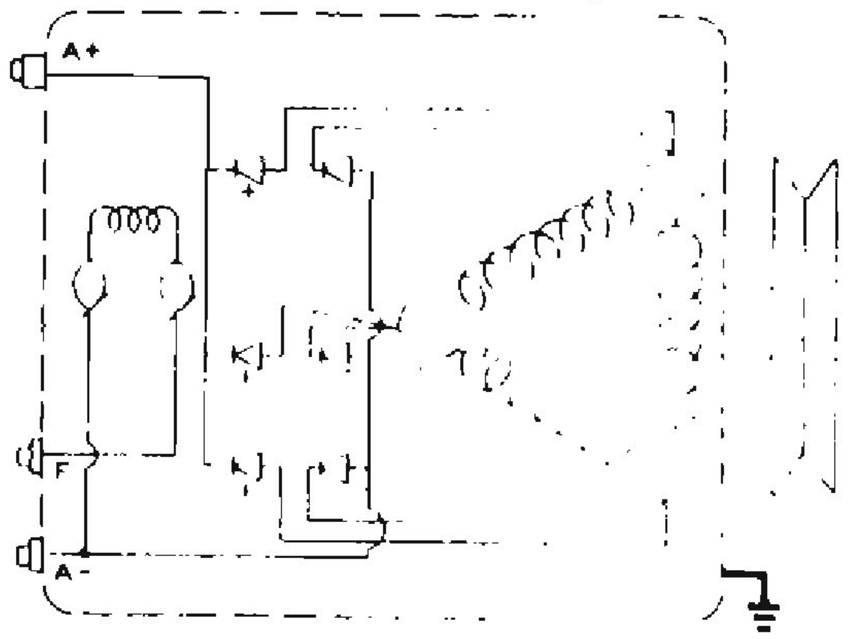


Figure 3

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