FILE IN THE

GJT

prestolite SERVICE MANUAL

GENERATOR SECTION

(Issued 3-16-78)

VOLTS 12 RATED OUTPUT See Tabulation VENTILATED See Tabulation

ROTATION CWDE BRUSHES 2 POLES 2

CONTROL Vibrating Current-Voltage Regulator

GROUND POLARITY See Tabulation BEARINGS Ball at drive end. Absorbent bronze at commutator end.

LUBRICATION — Periodically add 5 drops of medium engine oil to end head oilers. At overhaul, pack open ball bearings 1/4 to 1/2 full with a good ball bearing lubricant. NOTE - Soem ball bearings are sealed, these units are prelubricated and require no additional lubrication.

BRUSH SPRING TENSION — 18 to 36 ounces with new brushes. Brush spring tension is measured by using an adaptor and hooking it under the brush arm as near to the brush as possible. Take the reading just as the arm leaves the brush.

FIELD COIL DRAW (70°F.) — 1.6 to 1.7 amperes at 10.0 volts

MOTORING DRAW (70°F.) — 2.9 to 3.3 amperes at 10.0 volts

OUTPUT TEST (70°F.) — 15.0 volts, 10 amperes at 1500 maximum RPM.
15.0 volts, 20 amperes at 1900 maximum RPM.
15.0 volts, 25 amperes at 2200 maximum RPM.

Unit	Rated Output (Amperes)	Vent.	Ground Polarity	Internal Wiring	Special Instructions
GJT-7101A, B, C, E, S	25	Yes	Positive	Fig. 1	Note 1
GJT-7101BN, DN, EN, FN, GN, H, SN	25	Yes	Negative	Fig. 1	Note 1
GJT-7101HT	25	Yes	Negative	Fig. 1	Notes 1, 2
GJT-7102A, B, C, S	20	Yes	Positive	Fig. 1	Note 1
GJT-7102SN	20	Yes	Negative	Fig. 1	Note 1
GJT-7103A, B, C, D, F, S	20	Yes	Positive	Fig. 1	Note 1
GJT-7103AN, EN FN, SN	20	Yes	Negative	Fig. 1	Note 1
GJT-7104A	25	Yes	Positive	Fig. 1	Note 1
GJT-7105A, B	20	Yes	Positive	Fig. 1	Notes 1, 3
GJT-7106A, S	25	Yes	Positive	Fig. 1	Note 1
GJT-7106B, SN	25	Yes	Negative	Fig. 1	Note 1
GJT-7301A, B, F, S	10	No	Positive	Fig. 1	Note 1
GJT-7301EN, SN	10	No	Negative	Fig. 1	Note 1
GJT-7302A	10	No	Positive	Fig. 1	Note 1
GJT-7303A, B, C, D, E, F, G, H, S	10	No	Positive	Fig. 1	Note 1
GJT-7303B-1, C-1, E-1, F-1, J, SN	10	No	Negative	Fig. 1	Note 1
GJT-7304A	10	No	Positive	Fig. 1	Note 1
GJT-7304AN	10	No	Negative	Fig. 1	Note 1
GJT-7403A	25	Yes	Negative	Fig. 2	Note 4
GJT-7404A, B	25	Yes	Negative	Fig. 2	Note 4
GJT-7405A, S	20	Yes	Positive	Fig. 2	Note 4
GJT-7405AN	20	Yes	Positive	Fig. 2	Note 4

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Note 1 - When measuring motoring draw, have field and armature terminals connected together.

Note 2 - After inspection of the various parts, paint terminal stud and brush holder insulation with red glyptol. Cover glyptol and all metal surfaces except pilots, head seats, threads, commutator and bearing surfaces with an air-drying, fungus-resistant varnish. Allow varnish to soak into field coils and armature windings. Drain and dry thoroughly before assembling generator.

Note 3 - These units have ball bearings at both ends.

Note 4 - When measuring motoring draw, have field terminal grounded to frame.

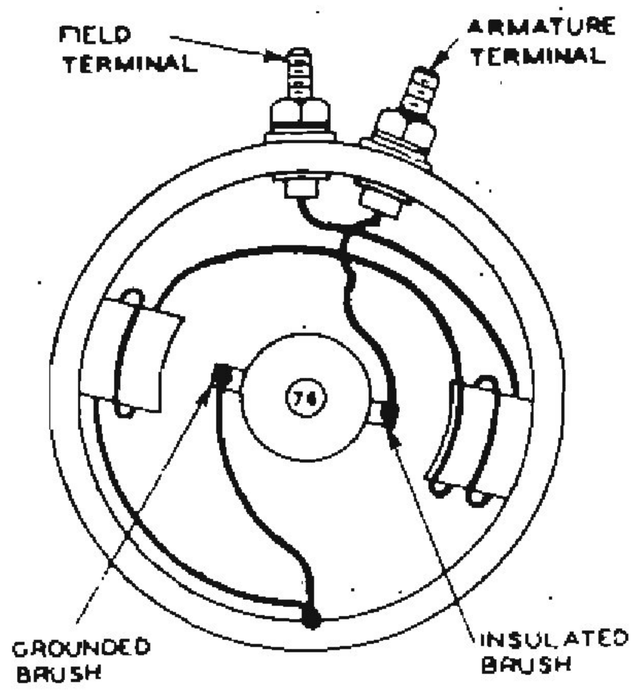

Figure 1

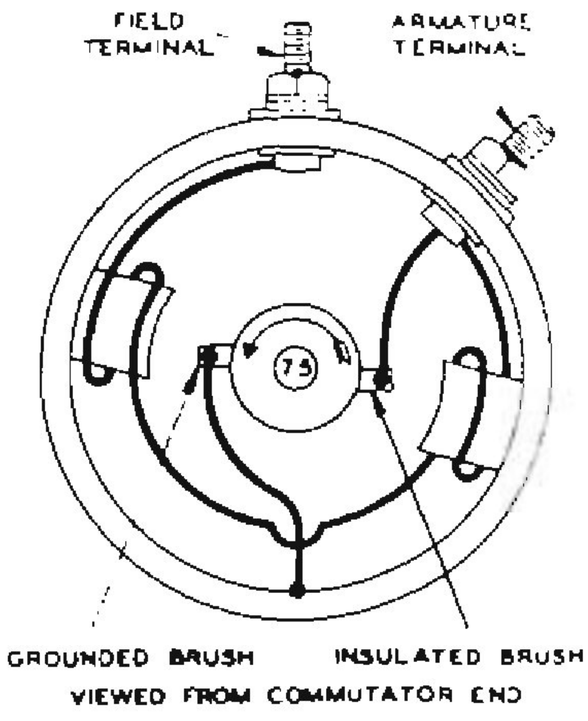

Figure 2

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