prestolite SERVICE MANUAL

GENERATOR SECTION

(Issued 3-16-78)

VOLTS 12 — RATED OUTPUT See Tabulation — VENTILATED Yes

ROTATION CWDE — BRUSHES 2 — POLES 2

CONTROL — Vibrating Current-Voltage Regulator

GROUND POLARITY See Tabulation — BEARINGS Ball at both ends

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 - some ball bearings are sealed, these units are prelubricated and require no additional lubrication.

BRUSH SPRING TENSION — 34 to 41 ounces with new brushes. Brush spring tension is measured with the scale hooked in the hole in the end of the brush arm and pulled on a line perpendicular to the top of the brush. Take the reading just as the arm leaves the brush.

FIELD COIL DRAW (70°F.) — 1.1 to 1.3 amperes at 10.0 volts

MOTORING DRAW (70°F.) — 2.3 to 2.6 amperes at 10.0 volts. If generator has felt oil seal in drive end head, the motoring draw will be 3.1 to 3.5 amperes at 10.0 volts.

OUTPUT TESTS (70°F.) — 14.6 volts, 4.0 amperes at 900 maximum RPM.
15.0 volts, 40.0 amperes at 1500 maximum RPM.

Unit	Rated Output (Amperes)	Ground Polarity	Internal Wiring	Special Instructions
GGA-4801A	40	Negative	Fig. 1	Notes 1, 2
GGA-4812A	40	Positive	Fig. 2	Note 3
GGA-4813	40	Positive	Fig. 2	Note 3
GGA-4814A, B, F, G, H	40	Positive	Fig. 2	Note 3
GGA-4814EN	40	Negative	Fig. 2	Note 3
GGA-4816	35	Positive	Fig. 2	Notes 2, 3, 4
GGA-4816T	35	Positive	Fig. 2	Notes 2, 3, 4, 5
GGA-4817	35	Positive	Fig. 2	Notes 2, 3, 4
GGA-4817T	35	Positive	Fig. 2	Notes 2, 3, 4, 5
GGA-6001AB, AC, AD, AE, AF, AH, AJ, AL, AM, AP, AR, AV, EN, K, L, M, N, N-S1, P, R, SN, SN-1, V, W, X, Y, Z	40	Negative	Fig. 2	Note 3

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Unit	Rated Output (Amperes)	Ground Polarity	Internal Wiring	Special Instructions
GGA-6001, A, AK, B, C, D, E, F, G, H, J, N-1, S, S-1	40	Positive	Fig. 2	Note 3
GGA-6002, A, AA, B, BA, C, D, E, F, G, S, S-1	40	Negative	Fig. 2	Note 3
GGA-6003, A, B, C, D, E, F, G, S-1	40	Negative	Fig. 2	Note 3
GGA-6004, A, B, S-1	40	Negative	Fig. 2	Note 3
GGA-6006, A, B, C, D, E, F, G, H, J, K, L, N, P, R, S, V, W	40	Negative	Fig. 2	Note 3
GGA-6009Y	40	Negative	Fig. 2	Note 3

NOTE 1 - Connect field terminal to armature terminal when measuring motoring draw.

NOTE 2 - Stake drive end bearing screws.

NOTE 3 - Connect field terminal to ground when measuring motoring draw.

NOTE 4 - This generator has a felt oil seal in the drive end head which will affect motoring specifications as noted.

NOTE 5 - 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 air-drying, fungus-resistant varnish. Allow varnish to soak into field coils and armature windings. Drain and dry thoroughly before assembling generator.

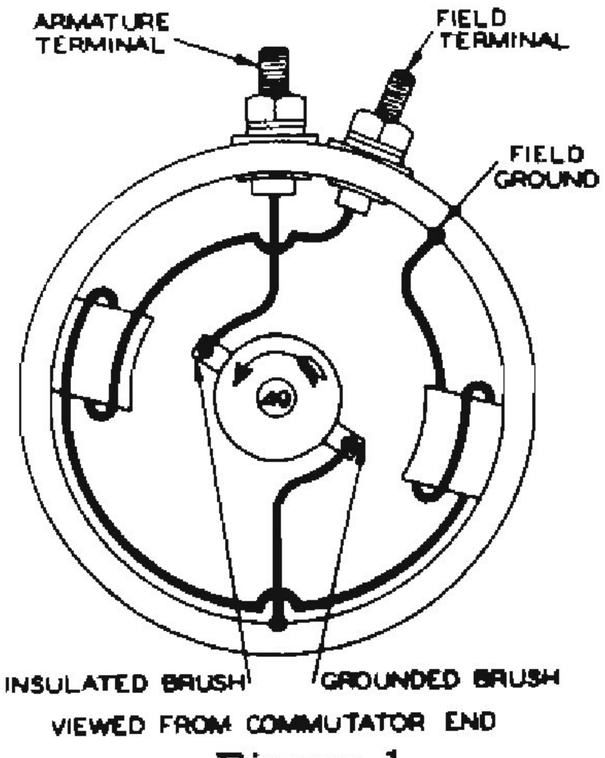


Figure 1

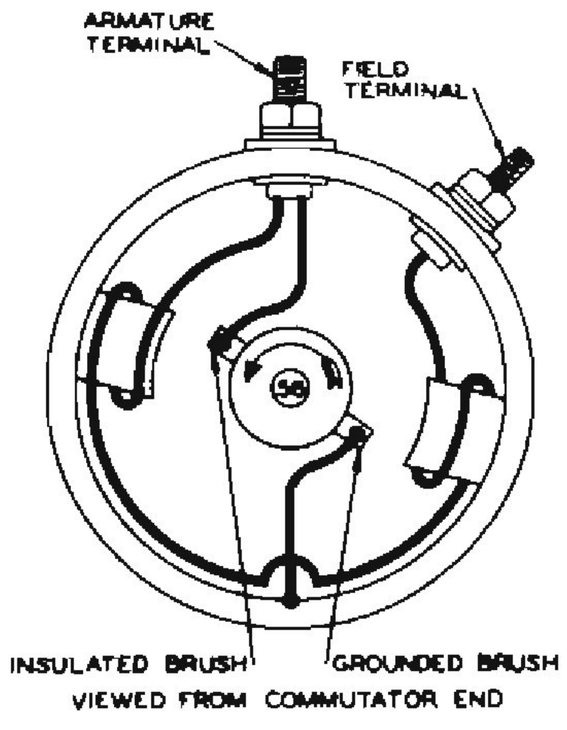


Figure 2

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