FILE IN THE

prestolite SERVICE MANUAL

GHM

GENERATOR SECTION

(Issued 3-16-78)

VOLTS 12 RATED OUTPUT 30 Amperes 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 overhual, place 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 — 35 to 53 ounces with new brushes. Brush 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.

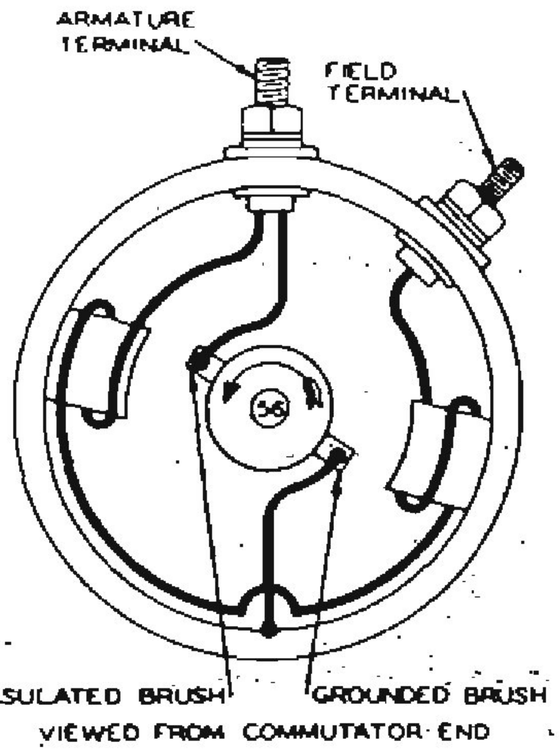
MOTORING DRAW (70°F.) — 3.0 to 3.5 amperes at 10.0 volts
(Have field terminal grounded to frame.)

OUTPUT TESTS (70°F.) — 14.0 volts, 5 amperes, 920 RPM.
15.0 volts, 30 amperes, 1500 RPM.

Units	Ground Polarity	Special Instructions
GHM-6001S-1	Negative	
GHM-6003D, SN1	Negative	See Notes 1, 2
GHM-6003S-1	Positive	See Notes 1, 2
GHM-6004H, K, L	Positive	
GHM-6004NS, P, SN	Negative	
GHM-6007S-1	Negative	
GHM-6012B	Negative	
GHM-6013A, S-1	Negative	
GHM-6014A, B-1	Negative	
GHM-6015S-1	Negative	
GHM-6016S	Negative	
GHM-6017A	Negative	
GHM-6018A	Negative	
GHM-8002S-1	Negative	
GHM-8005S-1	Negative	
GHM-8006S-1	Negative	

Note 1 - The drive coupling on the commutator end of the shaft must be pressed tight against the shoulder before inserting the screw. Tighten screw with a torque of 10 to 15 foot pounds.

Note 2 - The commutator end ball bearing is a prest fit on the armature shaft. To remove the bearings, first take out the bearing retainer screws and lift off the commutator end head. Remove the armature and drive end head as an assembly and pull the commutator end bearing with a bearing puller.


ARMATURE TERMINAL
FIELD TERMINAL
INSULATED BRUSH
GROUNDED BRUSH
VIEWED FROM COMMUTATOR END