VOLTAGE 12 ROTATION See Tabulation BRUSHES 4 POLES 4

DIAMETER 3-1/16"

LUBRICATION

At overhaul, soak absorbent bronze bearings in medium engine oil. Allow to drain thoroughly before assembly.

Lubricate drive end of armature shaft with Lubriplate or equivalent before assembly.

BRUSH REPLACEMENT

Replace brushes when they have worn to a length of 1/4" or less.

SPRING TENSION

Spring tension should be 35 to 40 ounces when spring is compressed to 9/32".

END PLAY

Adjust to .010" to .035" with thrust washers at commutator end. See Parts & Equipment List for thrust washer package.

TEST SPECIFICATIONS ($77^{\circ}F/25^{\circ}C$)

	Terminal Voltage	Maximum Amperes	RPM	Torque Ft. Lbs.
No Load Test	12.0	90	5,500	- 0 -
Stall Torque Test	4.0	300	- 0 -	3.2

Unit	Rotation	Pinion Position	Notes
MJL-4001,A,B	CCWDE	------	Note 1
MJL-4002,A	CCWDE	------	Note 1
MJL-4003B	CCWDE	*1-49/64" - 1-53/64"	Notes 1,2,3
MJL-4003C	CWDE	*1-49/64" - 1-53/64"	Notes 1,2,3
MJL-4004	CCWDE	*1-49/64" - 1-53/64"	Notes 1,2,3
MJL-4005	CCWDE	**3-7/64" - 3-3/16"	Notes 1,2,3

* Measured from mounting face to outside edge of pinion.

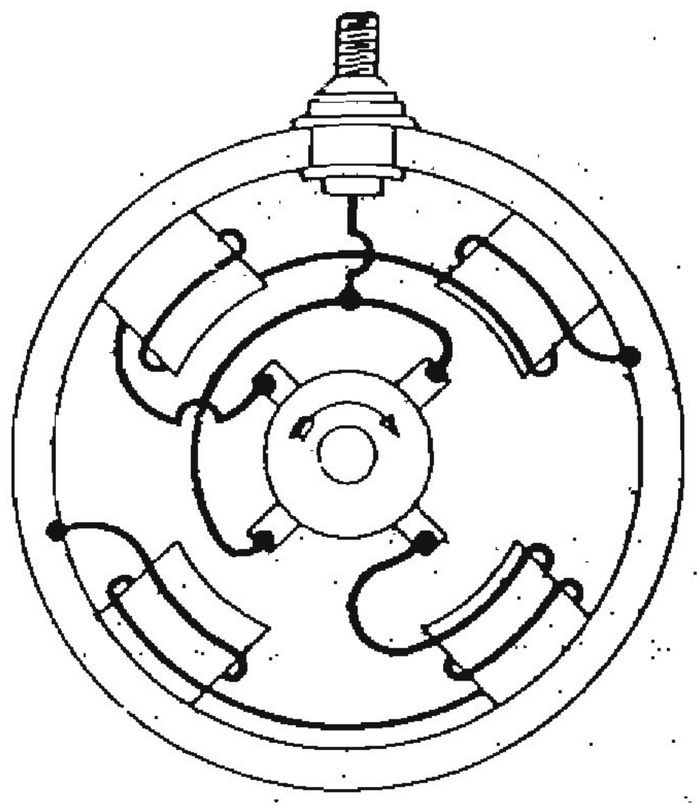
** Measured from centerline of mounting foot to edge of pinion gear.

prestolite.
SERVICE
INFORMATION

NOTE 1 – Drive end bearing must be flush with outside edge of bearing bore.

NOTE 2 – Commutator end bearing must be flush with top of bearing bore.

NOTE 3 – Tighten pinion retaining nut to 25 to 30 Ft. Lbs.



VIEWED FROM COMMUTATOR END