VOLTAGE 12 ROTATION See Tabulation BRUSHES 8 POLES 4

DIAMETER 5-3/16"

LUBRICATION — At overhaul, soak all bronze bearings in SAE-20 oil. Allow bearings to drain thoroughly before assembly. Lubricate armature shaft at drive end and with approved low temperature grease.

BRUSH REPLACEMENT — Replace brushes when they have worn for a length of 3/8" or less.

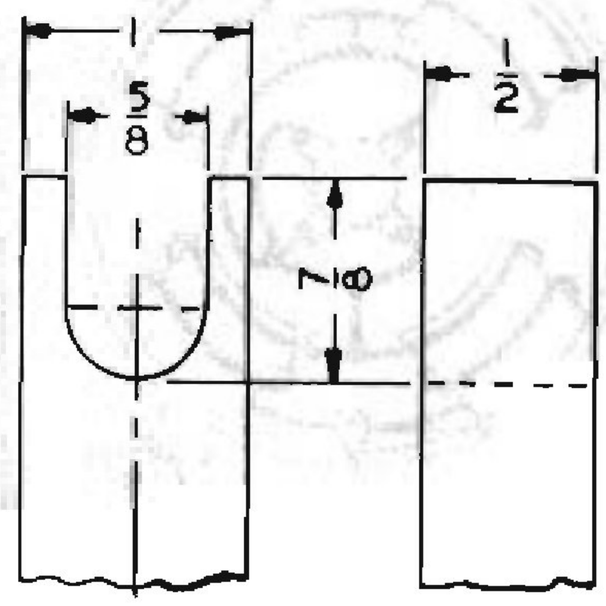
SPRING TENSION — 70 to 90 ounces with new brushes measure with a spring scale hooked under the brush springs at the brush. Pull the scale on a line opposite the line of force exerted by the brush spring and take the reading just as the spring leaves the brush.

TRANSMISSION — Mag. Clutch.

END PLAY — Adjust to .005" to .030" with thrust washer at comm end head. See Parts & Equipment List for thrust washer package.

SWITCH ACTION TEST — Energize solenoid with a 6 volt source between solenoid terminal and motor terminal. Adjust movable core assembly to give 1/64"-3/16" clearance between drive sleeve and thrust surface with solenoid sealed and pinion pushed toward commutator end.

To test switch action, slip a steel spacer (See illustration for dimensions) over the armature shaft between the pinion and the pinion stop. With this spacer in place, the magnetic switch should bottom and the switch contacts should close under normal voltages.



TEST SPECIFICATIONS (77°F/25°C)

	Terminal Voltage	Maximum Amperes	RPM	Torque Ft. Lbs.
No Load Test	10.0	200	6000	-0-
Stall Torque Test	1.0	690	-0-	6.5

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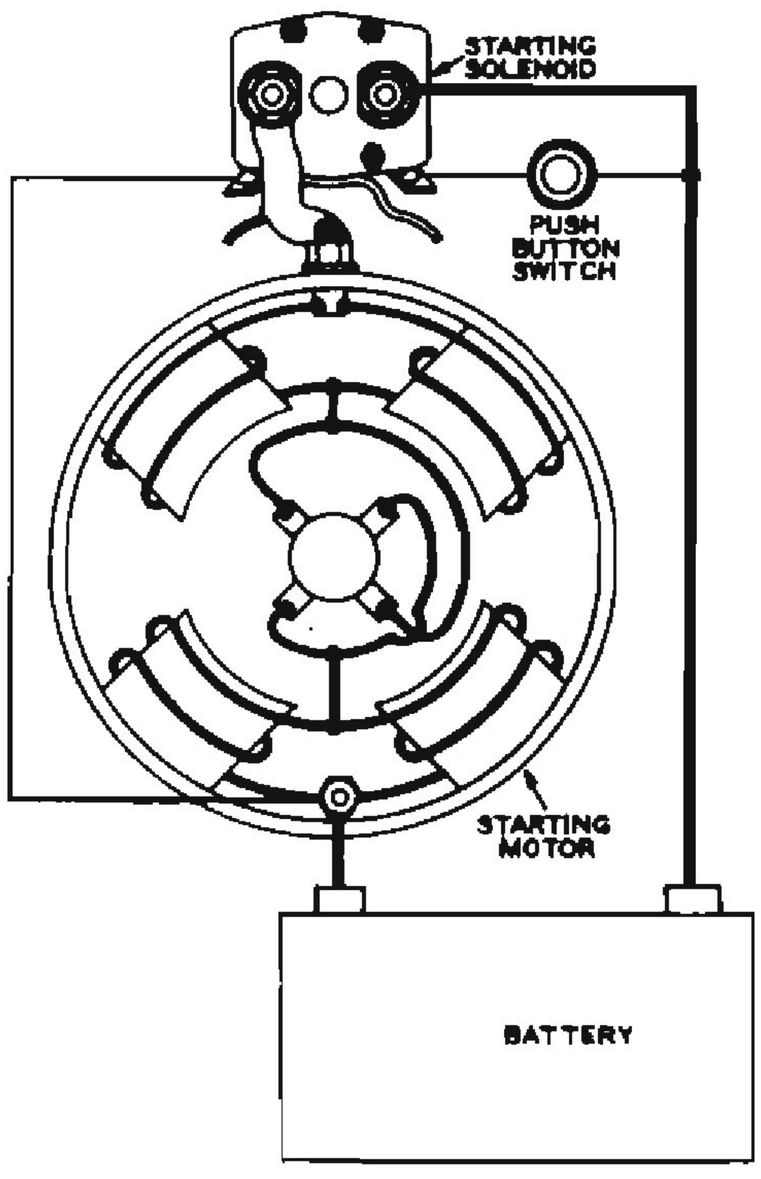
prestolite
SERVICE
INFORMATION

Unit	Rotation	Pinion Position*	Special Notes
MFJ-6101	CWDE	1-17/32"-1-39/64"	Notes 1,2
MFJ-6201,J,L	CWDE	1-51/64"-1- 7/8"	Notes 1,2
MFJ-6202,J,K	CWDE	1-51/64"-1- 7/8"	Notes 1,2
MFJ-6301,A.B,D,J,K	CWDE	1-51/64"-1- 7/8"	Notes 1,2
MFJ-6302,L	CWDE	1-51/64"-1- 7/8"	Notes 1,2
MFJ-6303,B,D,J	CWDE	1-51/64"-1- 7/8"	Notes 1,2
MFJ-6304	CWDE	1-51/64"-1- 7/8"	Notes 1,2
MFJ-6305,I,IA	CWDE	1-51/64"-1- 7/8"	Notes 1,2
MFJ-6306,C,D	CWDE	1-51/64"-1- 7/8"	Notes 1,2
MFJ-6401,K	CWDE	1-51/64"-1- 7/8"	Notes 1,2
MFJ-6501,J	CCWDE	1-51/64"-1- 7/8"	Notes 1,2
MFJ-6601,D	CWDE	1-51/64"-1- 7/8"	Notes 1,2

Note 1 - The intermediate bearing must be flush with the bearing bore nearest the armature.

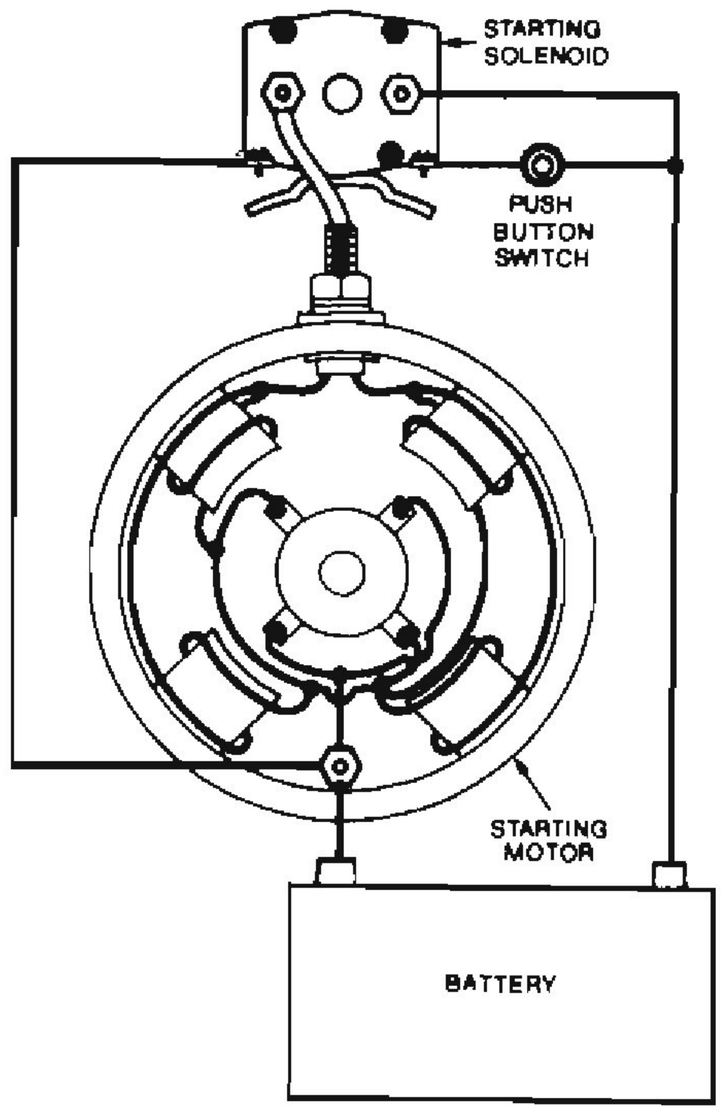
Note 2 - The pinion housing bearing must be flush with the bearing bore on the inside of the housing.

*This dimension is measured from the mounting face of the pinion housing to the outer edge of the pinion when in "at rest" position.



VIEWED FROM COMMUTATOR END

Internal Wiring of
CWDE Type Motors



VIEWED FROM COMMUTATOR END

Internal Wiring of
CCWDE Type Motors