These series type motors are reversible and are designed for outboard motor lifting. They have two field coils, one coil for each rotation.

VOLTS 12 ROTATION Reversible POLES 2 BRUSHES 2

BEARINGS — Absorbent bronze.

LUBRICATION — At overhaul, add 10 drops of medium engine oil to felts at armature shaft bearings. At assembly apply a light coat of rust preventative oil to armature shaft at drive end only.

ARMATURE TEST — Due to the internal connections and low resistance of the windings, the armature cannot be checked on a growler as all coils will check shorted. These armatures can be tested by using an A.C. milliammeter (5 amperes with 100 scale divisions) and making a test between bars.

SHAFT END PLAY — .010" to .040" on armature. Adjust by installing EMV-21, EMV-22, EMV-45 thrust washers as required to hold these limits.

PERFORMANCE TEST — (70°F) 12 volts, 46 to 57 amperes, 1640-2010 RPM
7 oz. ft. (CWDE)
12 volts, 57 to 62.5 amperes, 2150-2650 RPM
7 oz. ft. (CCWDE)

WIRING — For CWDE rotation, connect green to battery.
For CCWDE rotation, connect blue to battery.

UNIT	SPECIAL INSTRUCTION
ESW-4001	See Note 1
ESW-4002	See Note 1
ESW-4003	See Note 1
ESW-4004	See Note 1
ESW-4005	See Note 1

prestolite.

SERVICE

INFORMATION

NOTE 1 - When reassembling motor, pull out on blue and green leads to remove excess slack from interior of motor. Apply a bead of RTV or equivalent sealer around both leads where they emerge from the grommet.

