This series type motor is reversible and is designed for outboard motor lifting. There are two field coils, one 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 internal connections and low resistance of these 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.
SWITCH	Mounted separately.
SHAFT END PLAY	Adjust to .010" to .040". Refer to Parts & Equipment List for thrust washer package.
COMMUTATOR	Minimum diameter .936". Replace armature when commutator has worn to this dimension.
SPRING TENSION	9.5 to 11.0 ounces when compressed to 1/4" in length.
BRUSH REPLACEMENT	The brushes must be replaced when they have worn down to a length of 1/4" or less.
CIRCUIT BREAKER	This unit has a thermal circuit breaker built in the commutator end head which protects the motor in the event of overloads. Contacts open in 4 to 12 seconds when passing 100 amperes of current at 77°F. Contacts close at 12 seconds maximum after initial opening.
TEST CONNECTIONS	For CWDE rotation, connect green lead to battery. For CCWDE rotation, connect blue lead to battery.
TEST SPECIFICATIONS	(77°F) Test in both directions of rotation.

	Terminal Voltage	Maximum Amperes	Min. RPM	Torque Ft. Lbs.
Load test	10.95	74	1640	1.00

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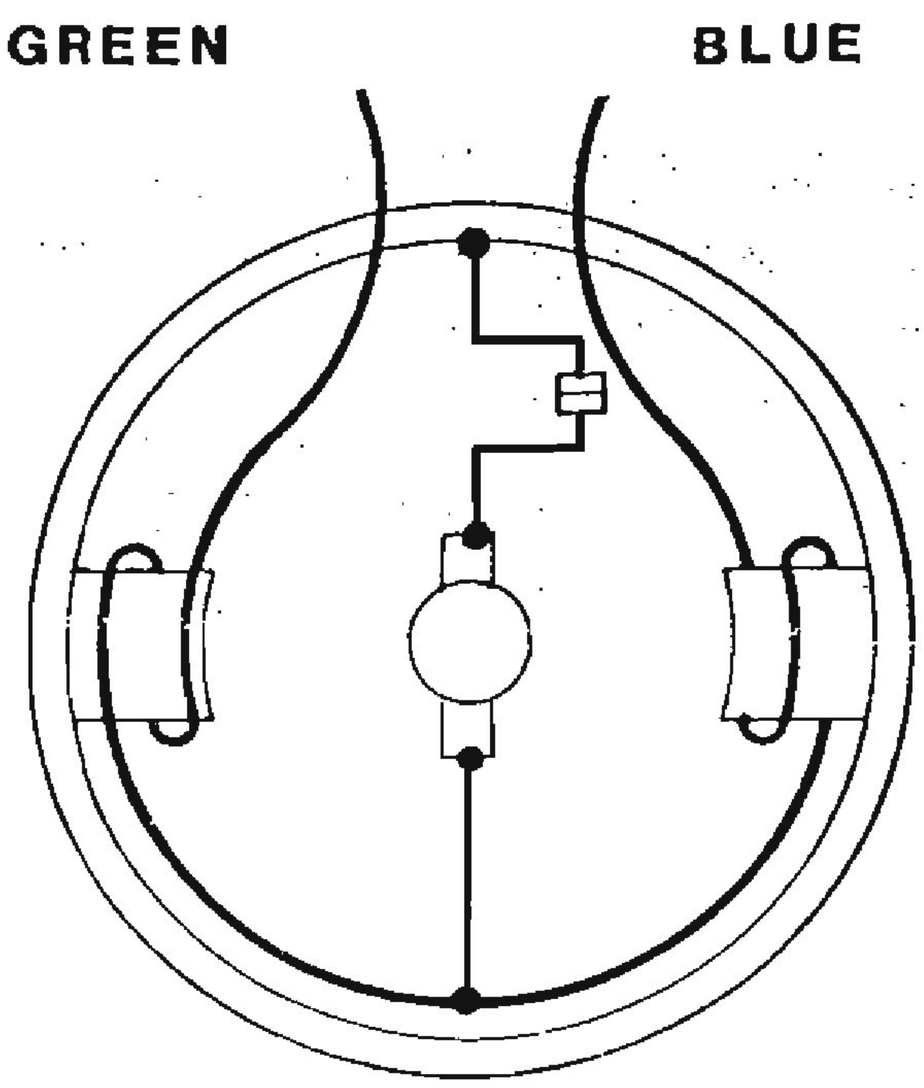
SERVICE
INFORMATION

UNIT

ETK-4102

NOTE: 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.



VIEWED FROM COMMUTATOR END