

SPECIFICATIONS

Model Numbers . . . 25E74 - Standard length (15" transom) electric start
 25EL74 5" longer (20" transom) electric start
 25R74 - Standard length (15" transom)
 25RL74 - 5" longer (20" transom)

*Horsepower (B.I.A.-certified) 25 hp at 5500 rpm
 Full throttle operating range 5000 to 6000 rpm
 Tank test with test wheel Part Number 376913 4900 rpm
 Engine type 2 cylinder, 2 cycle, alternate firing
 Bore and stroke 2-1/2" bore x 2-1/4" stroke
 Piston displacement 22.0 cubic inches
 Piston ring sets (2 per set) standard Part Number 385349
 .030" oversize Part Number 385350
 Diameter of ring 2.5000 in. (standard)
 Width of ring Upper .0900 - .0895 in.
 Lower .0625 - .0615 in.
 Lbs. compression recommended when compressed . . . Upper 2 to 5 lbs.
 Lower 3 to 5-1/2 lbs.
 Piston and rings standard Part Number 385339
 .030" oversize Part Number 385340

Crankshaft size
 Top journal 1.0000 - .9995 in.
 Center journal 1.0000 - .9995 in.
 Bottom journal 1.0000 - .9995 in.
 Connecting rod crank pin 1.0005 - 1.0000 in.

Carburetion Single barrel, float feed, low-speed adjustment
Float level setting Parallel to and 1/16 above gasket surface
Carburetor orifice plug 309517072"
Inlet needle seat065" - .062" Use a #52 drill as a gage
Cooling system . . Vari-Volume (combination positive displacement and centrifugal pump). Thermostatically controlled by-pass system
Propeller gear ratio 12:21
Propeller drive pin Part Number 307949 3/16" x 1-25/64"

Propeller, supplied with motor 3 blade, 9" dia. x 10" pitch
Propeller, optional 3 blade, 9" dia. x 9" pitch
Propeller, optional 3 blade 9" dia. x 10" pitch weedless
Speed control Twist grip, synchronized throttle and spark
Gear shift control Forward, neutral and reverse
Weight (less fuel tank) 25E74-95 lbs., 25EL74-97 lbs.
 25R74-85 lbs., 25RL74-87 lbs.
Fuel tank (net) 11 lbs.
Fuel capacity 6 gallons
Starter 12 volt electric key and automatic rewind rope
Starter amperage draw when cranking 120 amperes maximum
Ignition Low tension magneto
Spark plug Champion UJ4J, - 14 mm
Spark plug gap030 inch
Spark plug torque 17-1/2 - 20-1/2 Foot-pounds
Breaker point gap020 inch
Condenser Part Number 580422
 Capacity25 - .29 Mfd.
Driver coil resistance80 ± .05 ohm
Ignition coil Part Number 581370

COIL TEST SPECIFICATIONS

Stevens Tester Model No. M.A.-75 or M.A.-80

Switch	Index Adjustment with MA14 Adapter
B	25

Merc-O-Tronic

Operating Amperage	Primary Resistance		Secondary Continuity	
	Min.	Max.	Min.	Max.
1.7	.8	1.2	60	70

*Horsepower established at sea level. Allow 2% reduction per 1000' above sea level.