SPECIFICATIONS

Model Numbers . . . . . 25402 - Standard length (15" transom)
25403 - 5" longer (20" transom)
25452 - Standard length (15" transom) electric start
25453 - 5" longer (20" transom) electric start
*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 309517 . . . . . .072"
Inlet needle seat . . . . . .065" - .062" Use a #52 drill as a gage
Cooling system . . Centri-Matic (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"

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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) . . . . . 25402-85 lbs., 25403-87 lbs.
25452-95 lbs., 25453-97 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 gap . . . . . .030 inch
Spark plug torque . . . . . 17-1/2 - 20-1/2 Foot-pounds
Breaker point gap . . . . . .020 inch
Condenser . . . . . Part Number 580422
Capacity . . . . . .25 - .29 Mfd.
Driver coil resistance . . . . . .80 ± .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.