

**SPECIFICATIONS**

Model Numbers . . . . . 18302 - Standard length (15" transom)  
 18303 - 5" longer (20" transom)  
 \*Horsepower (B.I.A.-certified) . . . . . 18 hp at 4500 rpm  
 Full throttle operating range . . . . . 4000 to 5000 rpm  
 Tank test with test wheel Part Number 376913 . . . . . 4650 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 385338  
 .030" oversize . . . . . Part Number 385348

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 309935 . . . . . .068  
 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"  
 stainless steel

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) . . . . . 18302-86 lbs., 18303-88 lbs.

Fuel tank (net) . . . . . 11 lbs.  
 Fuel capacity . . . . . 6 gallons

Starter . . . . . Manual self-rewinding  
 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 No. 581124 Test Specifications -

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

Switch	Index Adjustment
A	16

Merc-O-Tronic

Operating Amperage	Primary Resistance		Secondary Continuity	
	Min.	Max.	Min.	Max.
1.0	.45	.6	45	55

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