

SPECIFICATIONS

Model Numbers	50302 (standard length) 50303 (5" longer) 50372 (standard length) 50373 (5" longer)
*Horsepower (B.I.A.-certified)	50 hp at 5500 rpm
Full throttle operating range	5000 to 6000 rpm
Tank test with test wheel Part No. 384769	5300 rpm
Engine type	2 cycle, 2 cylinders in line
Bore and stroke	3.060 (3-1/16) bore x 2.820 (2-13/16 stroke)
Piston displacement	41.5 cubic inches
Piston ring sets (2 per set) standard	Part Number 385798
.030" oversize	Part Number 385799
Diameter of ring	3.060 in. (standard)
Width of ring	
Upper, Part Number 3184110900 - .0895 in.
Lower, Part Number 3184120625 - .0615 in.
Piston ring lbs. compression recommended when compressed	
Upper	1.0 to 3.0 lbs.
Lower	4.0 to 8.0 lbs.
Piston without rings	
Standard	Part Number 386094
.030" oversize	Part Number 386097
Crankshaft size	
Top journal	1.4979 - 1.4974 in.
Center journal	1.3752 - 1.3748 in.
Bottom journal	1.1815 - 1.1810 in.
Connecting rod crank pin	1.1828 - 1.1823 in.
Carburetion	2 carburetors - Float feed with low-speed adjustment. Automatic, thermo electric, manual lever and remove control choke (electric only)
Float level setting	Remove float bowl, turn it upside down so weight of float closes needle; float should now be parallel to and 1/16" above surface of gasket
Carburetor orifice plug	Part Number 308977 - Hole size .058"
Inlet needle seat065 - .062 Use a #52 drill as gage.
Cooling system	Thermostatically controlled recirculating system
Propeller gear ratio	12:32
Propeller supplied with motor	(Aluminum) 3 blade, 13-3/4" dia. x 15" pitch
Alternate propellers	(Aluminum) 3 blade, 14" dia. x 9" pitch (Aluminum) 3 blade, 14" dia. x 11" pitch (Aluminum) 3 blade, 14" dia. x 13" pitch (Aluminum) 3 blade, 13-1/4" dia. x 17" pitch (Aluminum) 3 blade, 13" dia. x 19" pitch (Aluminum) 3 blade, 12-3/4" dia. x 21" pitch (Aluminum) 3 blade, 12-3/4" dia. x 23" pitch (Bronze) 2 blade, 13-3/4" dia. x 21" pitch (Bronze) 2 blade cupped, 13-3/4" dia. x 21" pitch (Bronze) 2 blade cupped, 13-3/4" dia. x 23" pitch (Stainless Steel) 3 blade, 13-3/4" dia. x 15" pitch (Stainless Steel) 3 blade, 13-3/8" dia. x 17" pitch (Stainless Steel) 3 blade, 13" dia. x 19" pitch (Stainless Steel) 3 blade, 12-3/4" dia. x 21" pitch
Speed control	Steering handle (manual only), remote control-synchronized throttle and spark
Gear shift control	Manual or Power Pilot - forward neutral, reverse - remote control
Weight (without fuel tank)	Model 50302 - 182 lbs., Model 50303 - 187 lbs. Model 50372 - 187 lbs., Model 50373 - 192 lbs. (Fuel tank weight 11 lbs. net)
Fuel capacity	6 gallons
Starter	Manual and Electric with emergency rope
Electrical system	6 amp alternating current generator (electric start) 50 Watt power take off 12 volt (manual start)
Starter amp draw when cranking (Prestolite)	135 amperes maximum
(Bosch)	110 amperes maximum
Ignition (Magneto breakerless C.D.)	Power Pack
Spark plug	Champion UL-77V
Spark plug torque	17-1/2 - 20-1/2 foot-pounds
Sensor air gap	Fixed

Coil Test Specifications

Part No. 580821 - New Stevens Tester Model No. M.A. - 75
**Use Model CD-1 Adapter

<u>Switch</u>	<u>Coil</u>	<u>Index Adjustment</u>
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Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980		
<u>Operating Amperage</u>	<u>Primary Resistance</u>	<u>Secondary Continuity</u>
Min. - Max.	Min. - Max.	Min. - Max.
1.4		22 - 26

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