

SPECIFICATIONS

- Model Numbers 50172 (standard length)
50173 (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 384315
- .030" oversize Part Number 384317
- Diameter of ring 3.060 in. (standard)
- Width of ring
 - Upper Part Number 3161490900 - .0985 in.
 - Lower, Part Number 3161500625 - .0615 in.
- Piston ring lbs. compression recommended when compressed
 - Upper5 to 2.5 lbs.
 - Lower 4 to 8 lbs.
- Piston without rings
 - Standard Part Number 383977
 - .030" oversize Part Number 384304
- Crankshaft size
 - Top journal 1.4979 - 1.4974 in.
 - Center journals 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 remote control choke
- 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, 13-1/4" dia. x 17" 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, 13-3/4" dia. x 15" 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" dia. x 19" pitch
(Stainless Steel) 3 blade, 12-3/4" dia. x 21" pitch
(Stainless Steel) 3 blade, 12-3/4" dia. x 23" pitch
- Speed control Remote control - synchronized throttle and spark
- Gear shift control Electric - Hydraulic - forward,
neutral, reverse - remote control
- Weight (without fuel tank) Model 50172 - 186 lbs.
Model 50173 - 191 lbs.
(Fuel tank weight 11 lbs. net)
- Fuel capacity 6 gallons
- Starter Electric and emergency rope
- Electrical system 6 amp alternating current generator
- Starter amp draw when cranking 135 amperes maximum
- Ignition (Magneto breakerless C.D.) Magneto
- Spark plug Champion UL-77V
- Spark plug torque 17-1/2 - 20-1/2 foot-pounds
- Shift solenoid resistance Lo ohms scale 5-6 ohms
- 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>
**A	580821	20

Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980

Operating Amperage	Primary Resistance	Secondary Continuity
Min. - Max.	Min. - Max.	Min. - Max.
1.4		22 - 26

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