

SPECIFICATIONS

Models 25802 and 35802,
Manual Start Standard Length (15" transom) (381 mm)
Models 25852 and 35852,
Electric Start Standard Length
Models 25803 and 35803,
Manual Start Long Shaft (20" transom) (508 mm)
Models 25853 and 35853,
Electric Start Long Shaft

POWER HEAD

Horsepower (B.I.A. certified)
25 HP Model 25 HP at 5000 rpm
35 HP Model 35 HP at 5500 rpm
Full throttle operating range 25 HP - 4500-5500 rpm
35 HP - 5000-6000 rpm

Tank test
25 HP - Wheel part number 388880, 5200 rpm
35 HP - Wheel part number 386891, 5300 rpm
Engine type 2 cyl., 2 cycle, alternate firing
Bore and stroke 3.000" bore x 2.250" (76.20 x 57.15 mm)
Piston displacement 31.8 cubic inches (521 cm³)
Piston and rings available standard and 0.030" oversize
Thickness of ring Upper - 0.0900 - 0.0895 in. (2.286 - 2.273 mm)
Lower - 0.0625 - 0.0615 in. (1.588 - 1.562 mm)
Crankshaft size
Top journal 1.2510 - 1.2515 in. (31.775 - 31.788 mm)
Center journal 1.1805 - 1.1810 in. (29.985 - 29.997 mm)
Bottom journal 0.9842 - 0.9846 in. (24.999 - 25.009 mm)
Connecting rod crank pin 1.1828 - 1.1823 in. (30.043 - 30.030 mm)

CARBURETOR

Carburetion Single barrel, float feed, fixed high speed, adjustable low-speed (under motor cover), manual choke
High speed orifice plug 25 HP - Part Number 324020
Identification Number 49-D
35 HP - Part Number 319831
Identification Number 59-D
Flush with rim of casting
Float level setting 0.065 - 0.062 (1.65 - 1.57 mm)
Inlet needle seat Use #53 drill as gage
Initial low speed needle setting 1-1/4 turns open
Idle speed 650 rpm maximum
Maximum neutral rpm 2000 - 3500 rpm
Cooling system Combination positive displacement and centrifugal pump
Pressure relief and thermostatically controlled
Propeller gear ratio 12:21 (25 HP) - 14:27 (35 HP)
Propeller supplied with motor 25 HP - 3 blade 9-1/4" dia. x 11" pitch
35 HP - 3 blade 10-1/2" dia. x 11" pitch
Propeller options 25 HP - 3 blade 9-1/4" dia. x 9" pitch SST
3 blade 9" dia. x 9" pitch
3 blade 9" dia. x 10" pitch
3 blade 9-1/4" dia. x 7" pitch
3 blade 9-1/4" dia. x 9" pitch SST

3 blade 9-1/4" dia. x 12" pitch SST
35 HP - 3 blade 11-1/4" dia. x 7" pitch alum.
3 blade 11" dia. x 9" pitch alum.
3 blade 10" dia. x 13" pitch alum.
3 blade 10-1/4" dia. x 13" pitch SST
3 blade 10-1/2" dia. x 11" pitch SST
3 blade 11" dia. x 9" pitch SST
On steering handle (Manual start)
Remote control available (Electric start)
Forward, neutral and reverse
Speed control
Gear shift control
Weight (without fuel tank)
Fuel capacity
Model 25802, 101 lbs. (45.8 kg)
Model 25803, 104 lbs. (47.2 kg)
Model 25852, 103 lbs. (46.7 kg)
Model 25853, 106 lbs. (48.1 kg)
Model 35802, 114 lbs. (51.7 kg)
Model 35803, 118 lbs. (53.5 kg)
Model 35852, 117 lbs. (53.1 kg)
Model 35853, 121 lbs. (54.9 kg)
(Fuel tank weight 11 pounds - net 5 kg)
6 gallons (22.7 litres)

ELECTRICAL SYSTEM

Charging system 5 amp flywheel alternator (Electric start models only)
Starter Manual - Self-winding
Electric - 12 volt
Starter amperage draw while cranking 100 amps Max.

IGNITION SYSTEM

Ignition Magneto breakerless C.D.
Spark plug Champion L78V
Alternate Spark plug Champion L77J4 or AC M40FFX gapped at 0.040" (1.0 mm)
Spark plug torque 17-1/2 - 20-1/2 foot-pounds (24 - 27 N·m)
Ignition coil Part No. 581862

IGNITION COIL TEST SPECIFICATIONS

Stevens Model ST-75		
Reverse Polarity (Switch Setting CD)		1.6
Stevens Tester Model M.A.-75 or M.A.-80		
Switch **A	Index Adjustment 20	
**Use Model CD-1 Adapter - Red test clip to orange/black - Black test clip to orange		
Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980		
Operating Amperage	Primary Resistance	Secondary Continuity
1.7	0.1 Ohm or less	5 (approx.)
Graham Tester Model 51		
Maximum Secondary		1,000 ohms
Maximum Primary		0.6 ohm
Maximum Primary DC Ohms (Point Test)		1.0 ohms
Coil Index		60
Coil Test Minimum AMPLIFIED		29 (With secondary circuit open") Hi tension lead disconnected
Gap Index		60 (Coil must fire spark gap on tester at this setting.)

*Horsepower established at sea level. Allow 2% reduction per 1000' (300 m) above sea level.