

# SPECIFICATIONS

Models 25904 and 35902, Manual Start	Standard Length (15" transom) (381 mm)
Models 25952 and 35952, Electric Start	Standard Length
Models 25905 and 35903, Manual Start	Long Shaft (20" transom) (508 mm)
Models 25953 and 35953, Electric Start	Long Shaft

## POWER HEAD

Horsepower (B.I.A. certified)	
25 HP Model	25 HP (17.7 kw) at 5000 rpm
35 HP Model	35 HP (24.7 kw) 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 cm <sup>3</sup> )	
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
Float level setting	Between steps on gauge #324891
Inlet needle seat	0.065 - 0.062 (1.65 - 1.57 mm) Use #53 drill as gauge
Initial low speed needle setting	1-1/4 turns open (35 hp) 1/2 turn open (25 hp)
Idle speed	650 rpm maximum
Maximum neutral rpm	2000 - 3500 rpm

## LOWER UNIT

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" dia. x 13" 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 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 10-1/2" dia. x 11" 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)
Speed control	Forward, neutral and reverse
Gear shift control	Forward, neutral and reverse
Weight (without fuel tank)	Model 25904, 101 lbs. (45.8 kg) Model 25905, 103 lbs. (46.7 kg) Model 25952, 104 lbs. (47.2 kg) Model 25953, 106 lbs. (48.1 kg) Model 35902, 114 lbs. (51.7 kg) Model 35903, 118 lbs. (53.5 kg) Model 35952, 117 lbs. (53.1 kg) Model 35953, 121 lbs. (54.9 kg) (Fuel tank weight 11 pounds - net 5 kg)
Fuel capacity	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 or ACV40FFK
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)
Timing	25 H. P. - 34° BTDC 35 H. P. - 30°
Ignition coil	Part No. 581997

## IGNITION COIL TEST SPECIFICATIONS

Stevens Model ST-75		
Reverse Polarity (Switch Setting CD)		1,2
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 (Reverse Polarity)		
Operating Amperage	Primary Resistance	Secondary Continuity
1.4	0.1 Ohm or less	5 (approx.)

Graham Tester Model 51	
Maximum Secondary . . . . .	1,000 ohms
Maximum Primary . . . . .	0.5 ohm
Coil Index . . . . .	50
Coil Test Minimum AMPLIFIED . . . . .	17 (With secondary circuit open") Hi tension lead disconnected
Gap Index . . . . .	50 (Coil must fire spark gap on tester at this setting.)

IGNITION COIL OHMMETER TEST	
Primary (Low Ohms)	Secondary (High Ohms)
0.1 ± 0.05	275 ± 50

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