

SPECIFICATIONS

Models 25R77 and 35R77,
Manual Start
Standard Length (15" transom) (381 mm)
Models 25E77 and 35E77,
Electric Start
Standard Length
Models 25RL77 and 35RL77,
Manual Start
Long Shaft (20" transom) (508 mm)
Models 25EL77 and 35EL77,
Electric Start
Long Shaft

POWERHEAD

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 388295, 4650 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 .030" oversize
Thickness of ring
Upper - .0900 - .0895 in. (2.286 - 2.273 mm)
Lower - .0625 - .0615 in. (1.588 - 1.562 mm)

Crankshaft size
Top journal 1.2495 - 1.2500 in. (31.737 - 31.750 mm)
Center journal .9995 - 1.0000 in. (25.387 - 25.400 mm)
Bottom journal .9842 - .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 320921
Identification Number 55-D
35 HP - Part Number 319831
Identification Number 59-D
Flush with rim of casting
.065 - .062 (1.65 - 1.57 mm)
Use #53 drill as gage

Float level setting 1-1/4 turns open
Inlet needle seat 650 rpm maximum
Initial low speed needle setting 4500 - 6000 rpm
Idle speed
Maximum neutral rpm
Cooling system Combination positive displacement and centrifugal pump
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 9-1/2" dia. x 7" pitch
3 blade 9" dia. x 9" pitch
3 blade 9-1/4" dia. x 7" pitch (weedless)
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 10-1/2" dia. x 11" pitch SST
3 blade 11" dia. x 9" pitch SST

Speed control On steering handle (Manual start)
Remote control available (Electric start)

Gear shift control Forward, neutral and reverse

Weight (without fuel tank)
Model 25R77, 101 lbs. (45.8 kg)
Model 25RL77, 104 lbs. (47.2 kg)
Model 25E77, 103 lbs. (46.7 kg)
Model 25EL77, 106 lbs. (48.1 kg)
Model 35R77, 114 lbs. (51.7 kg)
Model 35RL77, 118 lbs. (53.5 kg)
Model 35E77, 117 lbs. (53.1 kg)
Model 35EL77, 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 L77J4 or AC M40FFX
Spark plug gap .040 inch (1.0 mm)
Spark plug torque 17-1/2 - 20-1/2 foot-pounds (24 - 27 N·m)

IGNITION COIL TEST SPECIFICATIONS

Stevens Model ST-75		
Reverse Polarity (Switch Setting CD)	1.9	
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
Min. - Max.	Min. - Max.	Min. - Max.
1.9	.1 Ohm	8 - 20
Graham Tester Model 51		
Maximum Secondary	3,000 ohms	
Maximum Primary	0.6 ohm	
Coil Index	50	
Coil Test Minimum (AMPLIFIED)	27 (With secondary circuit open") Hi tension lead disconnected	
Gap Index	50 (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.