


## SPECIFICATIONS

Model Numbers . . . . . 55E78 (standard length) 55EL78 (longer)	High speed orifice plug . . . . . Part No. 321407 - Hole size 0.054" (1.37 mm)
*Horsepower (B.I.A.-certified) . . 55 hp at 5500 rpm	Idle orifice plug
Full throttle operating range . . . 5000 to 6000 rpm	Top carburetor . . . . . Part No. 318823 0.031" (0.79 mm)
 NOTE	Lower carburetor . . . . . Part No. 317473 0.030" (0.76 mm)
The recommended full power operating range for this outboard motor is from 5000 - 6000 R.P.M. In order to get the best performance, the upper end of this range, from 5500 - 6000 rpm is the engine speed to use in selecting the proper propeller. The R.P.M. should be measured with your expected average load in the boat.	Inlet needle set . 0.065" - 0.062" (1.65 - 1.57 mm) Use a #52 drill as gage.
Tank test with test wheel	Cooling system . . . . . Temperature and pressure controlled system
Part No. 387635 . . . . . 5300 rpm	Propeller gear ratio . . . . . 12:29
Idle speed . . . . . 1000-1100 rpm (neutral) 700-750 rpm (in gear)	Propeller supplied with motor . . . . . (Aluminum) 3 blade, 12-1/4" dia. x 15" pitch
Engine type . . . . . 2 cycle, 2 cylinders in line	Alternate propellers . . . . . (Aluminum) 3 blade, 13" dia. x 11" pitch
Bore and stroke . . . . 3.1875" bore x 2.820" stroke (80.96 x 71.63 mm)	(Aluminum) 3 blade, 12-1/2" dia. x 13" pitch
Piston displacement . . . . . 45.0 cu. in. (737 cm <sup>3</sup> )	(Aluminum) 3 blade, 11-3/4" dia. x 17" pitch
Piston ring sets	(Aluminum) 3 blade, 11-1/2" dia. x 19" pitch
(2 per set) standard . . . . . Part No. 385798	(SST) 3 blade, 12-1/2" dia. x 13" pitch
0.030" oversize . . . . . Part No. 385799	(SST) 3 blade, 12-1/4" dia. x 15" pitch
Diameter of ring . . . . . 3.1875" (standard)	(SST) 3 blade, 11-3/4" dia. x 17" pitch
Width of ring	(SST) 3 blade, 11-1/4" dia. x 19" pitch
Upper, Part No. 318411 . . . . 0.0900" - 0.0895" (2.286 - 2.273 mm)	Speed control . . . . . Remote control synchronized throttle and spark
Lower, Part No. 318412 . . . . 0.0625" - 0.0615" (1.588 - 1.562 mm)	Gear shift control . . . . . Forward, neutral, reverse - remote control
Piston without rings	Weight (without fuel tank) . . Standard - 180 lbs. (81.6 kg), Long - 187 lbs. (84.8 kg)
Standard . . . . . Part No. 386094	(Fuel tank weight 11 lbs. (5.0 kg) net)
0.030" oversize . . . . . Part No. 386097	Fuel capacity . . . . . 6 gallons (22.7 litres)
Crankshaft size	Starter . . . . . Electric with emergency rope
Top journal . . . . . 1.4979" - 1.4974" (38.047 - 38.034 mm)	Electrical system . . . . 5 amp alternating current generator
Center journal . . . . . 1.3752" - 1.3748" (34.930 - 34.920 mm)	Starter amp draw when cranking
Bottom journal . . . . . 1.1815" - 1.1810" (30.010 - 29.997 mm)	(Prestolite) . . . . . 160 amperes maximum
Connecting rod crank pin . . . . . 1.1828" - 1.1823" (30.043 - 30.030 mm)	(Bosch) . . . . . 110 amperes maximum
Carburetion . . . . . 2 carburetors - Float feed. Manual and remote control choke	Ignition (Magneto breakerless C.D.) . . . . . CD-2
Float level setting . . . . . Parallel to and 1/16" (1.6 mm) above surface of gasket	Timing . . . . . 19° @ 3500 minimum rpm in gear
	Spark plug . . . . . Champion L77J4 or AC M40FFX
	Spark plug torque . . . . . 17-1/2 - 20-1/2 ft.-lbs. (24-27 N·m)
	Spark plug gap . . . . . 0.040" (1.0 mm)
	Ignition coil . . . . . Part No. 581862

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

## IGNITION COIL TEST SPECIFICATIONS

Stevens Model ST-75	Primary Resistance . . . . . 0.1 Ohm or less
Reverse Polarity (Switch Setting CD) . . . . . 1.6	Secondary Continuity . . . . . 5 approx
Stevens Tester Model M.A.-75 or M.A.-80	Graham Tester Model 51
Switch . . . . . A (Use Model CD-1 Adapter - Red test clip to orange/black - Black test clip to orange)	Maximum Secondary . . . . . 1,000 ohms
Index Adjustment . . . . . 20	Maximum Primary . . . . . 0.6 ohm
Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980	Coil Index . . . . . 60
Operating Amperage . . . . . 1.7	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)