

SPECIFICATIONS

Model Numbers 55E78 (standard length)
 55EL78 (longer)
 *Horsepower (B.I.A.-certified) . . 55 hp at 5500 rpm
 Full throttle operating range . . . 5000 to 6000 rpm

NOTE

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.

Tank test with test wheel
 Part No. 387635 5300 rpm
 Idle speed 1000-1100 rpm (neutral)
 700-750 rpm (in gear)
 Engine type 2 cycle, 2 cylinders in line
 Bore and stroke 3.1875" bore x 2.820" stroke
 (80.96 x 71.63 mm)
 Piston displacement 45.0 cu. in. (737 cm³)
 Piston ring sets
 (2 per set) standard Part No. 385798
 0.030" oversize Part No. 385799
 Diameter of ring 3.1875" (standard)
 Width of ring
 Upper, Part No. 318411 0.0900" - 0.0895"
 (2.286 - 2.273 mm)
 Lower, Part No. 318412 0.0625" - 0.0615"
 (1.588 - 1.562 mm)
 Piston without rings
 Standard Part No. 386094
 0.030" oversize Part No. 386097
 Crankshaft size
 Top journal 1.4979" - 1.4974"
 (38.047 - 38.034 mm)
 Center journal 1.3752" - 1.3748"
 (34.930 - 34.920 mm)
 Bottom journal 1.1815" - 1.1810"
 (30.010 - 29.997 mm)
 Connecting rod crank pin 1.1828" - 1.1823"
 (30.043 - 30.030 mm)
 Carburetion 2 carburetors - Float feed.
 Manual and remote control choke
 Float level setting Parallel to and 1/16"
 (1.6 mm) above surface of gasket

High speed orifice plug Part No. 321407 -
 Hole size 0.054" (1.37 mm)
 Idle orifice plug
 Top carburetor Part No. 318823
 0.031" (0.79 mm)
 Lower carburetor Part No. 317473
 0.030" (0.76 mm)
 Inlet needle set . 0.065" - 0.062" (1.65 - 1.57 mm)
 Use a #52 drill as gage.
 Cooling system Temperature and
 pressure controlled system
 Propeller gear ratio 12:29
 Propeller supplied with motor (Aluminum)
 3 blade, 12-1/4" dia. x 15" pitch
 Alternate propellers (Aluminum) 3 blade,
 13" dia. x 11" pitch
 (Aluminum) 3 blade, 12-1/2" dia. x 13" pitch
 (Aluminum) 3 blade, 11-3/4" dia. x 17" pitch
 (Aluminum) 3 blade, 11-1/2" dia. x 19" pitch
 (SST) 3 blade, 12-1/2" dia. x 13" pitch
 (SST) 3 blade, 12-1/4" dia. x 15" pitch
 (SST) 3 blade, 11-3/4" dia. x 17" pitch
 (SST) 3 blade, 11-1/4" dia. x 19" pitch
 Speed control Remote control synchronized
 throttle and spark
 Gear shift control Forward, neutral,
 reverse - remote control
 Weight
 (without fuel tank) . . Standard - 180 lbs. (81.6 kg),
 Long - 187 lbs. (84.8 kg)
 (Fuel tank weight 11 lbs. (5.0 kg) net)
 Fuel capacity 6 gallons (22.7 litres)
 Starter Electric with emergency rope
 Electrical system 5 amp alternating current
 generator
 Starter amp draw when cranking
 (Prestolite) 160 amperes maximum
 (Bosch) 110 amperes maximum
 Ignition (Magneto breakerless C.D.) CD-2
 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
 Reverse Polarity (Switch Setting CD) 1.6
 Stevens Tester Model M.A.-75 or M.A.-80
 Switch A (Use Model CD-1 Adapter - Red
 test clip to orange/black -
 Black test clip to orange
 Index Adjustment 20
 Merc-O-Tronic with
 Capacitor Discharge Adapter Model 55-980
 Operating Amperage 1.7

Primary Resistance 0.1 Ohm or less
 Secondary Continuity 5 approx
 Graham Tester Model 51
 Maximum Secondary 1,000 ohms
 Maximum Primary 0.6 ohm
 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)