

SPECIFICATIONS

| | 4.5 | 7.5 |
|---------------------------------------|---|--|
| Models | E5RCS - Standard length E5RLCS - Long shaft E5RHCS (with portable tank) E5RHLCS (with portable tank) | E8RCS - Standard length E8RLCS - Long shaft |
| POWERHEAD | | |
| *Horsepower (B.I.A. - certified) . . | 4.5 hp (3.35 kW) at 5000 rpm | 7.5 hp (5.59 kW) at 5000 rpm |
| Full throttle operating range | 4500 to 5500 rpm | 4500 to 5500 rpm |
| Test tank rpm with test wheel | 5100 rpm - Part No. 390123 | 4900 rpm - Part No. 390239 |
| Idle rpm | 600 rpm | 650 rpm |
| Engine type | 2-cylinder, 2 stroke cycle alternate firing | 2-cylinder, 2 stroke cycle alternate firing |
| Bore and stroke | 1.5625" (39.69 mm) bore x 1.375" (34.93 mm) stroke | 1.9375" (49.21 mm) bore x 1.700" (43.18 mm) stroke |
| Piston displacement | 5.28 cubic inches (86.58 cm ³) | 10.0 cubic inches (163.9 cm ³) |
| Piston ring sets (2 per set) | | |
| standard | Part Number 383920 | Part Number 390082 |
| 0.030" oversize | Part Number 384312 | Part Number 390083 |
| Width of ring | 0.0625-0.0615 in. (1.588 - 1.562 mm) | 0.0625-0.0615 (1.588 - 1.562 mm) |
| Piston assembly | | |
| standard | Part Number 390834 | Part Number 390233 |
| 0.030" oversize | Part Number 390836 | Part Number 390084 |
| Crankshaft size | | |
| top journal | 0.751 - 0.7505 in. (19.075 - 19.063 mm) | 0.87725 - 0.87225 (22.282 - 22.155 mm) |
| center journal | 0.6690 - 0.6685 in. (16.993 - 16.980 mm) | 0.81545 - 0.81045 (20.712 - 20.585 mm) |
| bottom journal | 0.7502 - 0.7498 in. (19.055 - 19.045 mm) | 0.7562 - 0.7498 (19.207 - 19.045 mm) |
| Crank pin size | 0.6700 - 0.6695 (17.018 - 17.005 mm) | 0.6700 - 0.6695 (17.018 - 17.005 mm) |
| FUEL SYSTEM | | |
| Carburetion | Single barrel float feed, with fixed high and adjustable low-speed jet, manual choke, integral fuel pump | Single barrel float feed, with fixed high and adjustable low-speed jet, manual choke |
| Float level setting | Between steps on gage 324891 | Use marks "2 thru 6 hp" on gauge 324891 |
| High speed orifice | Part No. 320015 Size 0.033" (0.84 mm) | Part No. 390249 Size 0.035" (0.89 mm) |
| Inlet needle seat | 0.063 - 0.060 (1.60 - 1.52 mm) Use a .0625 drill as gage | |
| Fuel tank capacity | 2.1 quarts (2.0 litres) or 3 gallons (11.35 litres) | 3 gallons (11.35 litres) |
| LOWER UNIT | | |
| Cooling system | Combination positive displacement and centrifugal pump | Thermostatically controlled |
| Propeller gear ratio | 13:29 (.448) | 13:29 (.448) |
| Propeller | 8-1/2" dia. x 7" pitch, 3 blade aluminum | 8-1/2" dia x 9" pitch, 3 blade aluminum |
| MISCELLANEOUS | | |
| Shift control | Forward, neutral, reverse | Forward, neutral, reverse |
| Speed control | Twist grip, synchronized throttle and spark | Twist grip, synchronized throttle and spark |
| Weight | Standard length - 51.5 lbs. (23.4 kg) Long shaft - 54.0 lbs. (24.5 kg) | Standard length - 56.0 lbs. (25.4 kg) Long shaft - 58.5 lbs. (26.5 kg) |
| Starter | Automatic rewind - nylon rope | Automatic rewind - nylon rope |
| IGNITION SYSTEM | | |
| Ignition | Flywheel magneto, breakerless C.D. | Flywheel magneto, breakerless C.D. |
| Spark plug | AC-M40FFX Champion L77J4, - 14 mm | AC-M40FFX Champion L77J4, - 14 mm |
| Spark plug gap | .040 inch (1.0 mm) | .040 inch (1.0 mm) |
| Spark plug torque | 17.5 - 20.5 foot-pounds (23.73 - 27.79 N·m) | 17.5 - 20.5 foot-pounds (23.73 - 27.79 N·m) |
| Ignition Coil | No. 1 - Part No. 581997 No. 2 - Part No. 581998 | Part No. 581997 |

| IGNITION COIL TEST SPECIFICATIONS | | | **Use Model CD-1 Adapter Red test clip to orange/black Black test clip to orange | |
|--|------------------------|----------------------|---|-----------------------|
| Stevens Model ST-75 | | | 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 | |
| Reverse Polarity (Switch Setting CD) 1.2 | | | | |
| Stevens Tester Model M.A.-75 or M.A.-80 | | | | |
| Switch **A | Index Adjustment 20 | | | |
| Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980 | | | | |
| Operating Amperage | Primary Resistance | Secondary Continuity | Gap Index 50 (Coil must fire spark gap on tester at this setting.) | |
| 1.4 | 0.1 Ohm OR LESS | 5 Approx | IGNITION COIL OHMMETER TEST | |
| | | | Primary (Low Ohms) | Secondary (High Ohms) |
| | | | 0.1 ± 0.05 | 275 ± 50 |