

SPECIFICATIONS

| | 4.5 | 7.5 |
|-------------------------------|--|--|
| Models | | |
| Standard length | J5RC1 (integral tank) E5RC1 (integral tank) J5RHC1 (portable tank) E5RHC1 (portable tank) | J8RC1 E8RC1 |
| Long shaft | J5RLC1 (integral tank) E5RLC1 (integral tank) J5RHLC1 (portable tank) E5RHLC1 (portable tank) | J8RLC1 E8RLC1 |
| POWERHEAD | | |
| *Horsepower (BIA - certified) | 4.5 hp (3.2 kW) at 5000 rpm | 7.5 hp (5.3 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 number 390123 | 4900 rpm - Part Number 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 (86.5 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 in. (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 in. (22.282 - 22.155 mm) |
| center journal | 0.6690 - 0.6685 in. (16.993 - 16.980 mm) | 0.81545 - 0.81045 in. (20.712 - 20.585 mm) |
| bottom journal | 0.7502 - 0.7498 in. (19.055 - 19.045 mm) | 0.7562 - 0.7498 in. (19.207 - 19.045 mm) |
| Crank pin size | 0.6700 - 0.6695 in. (17.018 - 17.005 mm) | 0.6700 - 0.6695 in. (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 gage 324891 |
| Float drop setting | 1-1/8" - 1-1/2" below casting | 1-1/8" - 1-1/2" below casting |
| +High speed orifice | Part Number 320015 Size 0.033" (0.84 mm) | Part Number 390249 Size 0.035" (0.89 mm) |
| Inlet needle seat | 0.053 - 0.050 in. (1.35 - 1.27 mm) Use number 55 drill as gage | 0.053 - 0.050 in. (1.35 - 1.27 mm) Use number 55 drill as gage |
| Fuel tank capacity | 2.1 quarts (2.0 liters) or 3 gallons (11.4 liters) | 3 gallons (11.4 liters) |
| LOWER UNIT | | |
| Cooling system | Combination positive displacement and centrifugal pump | Thermostatically controlled |
| Propeller gear ratio | 13:29 (0.448) | 13:29 (0.448) |
| Propeller | 8" 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) Automatic rewind - nylon rope | Standard length - 56.0 lbs. (25.4 kg) Long shaft - 58.5 lbs. (26.5 kg) Automatic rewind - nylon rope |
| Starter | | |
| 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 | 0.040 inch (1.0 mm) | 0.040 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 | Part Number 582366 | Part Number 582366 |

| 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 | |
| Reverse Polarity (Switch Setting CD) | 1.1 | | Maximum Secondary | 400 ohms |
| Stevens Tester Model M.A.-75 or M.A.-80 | | | Primary Continuity, Point Test Scale | 0.1 ohm, maximum |
| Switch | Index Adjustment | | Maximum Primary | 0.4 ohm |
| **A | 20 | | Coil Index | 50 |
| Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980 | | | Coil Test Minimum AMPLIFIED | 26 (With secondary circuit "open.") Hi tension lead disconnected |
| Operating Amperage | Primary Resistance | Secondary Continuity | Gap Index | 50 (coil must fire spark gap on tester at this setting.) |
| 1.0 | 0.1 Ohm OR LESS | 5 Approx | IGNITION COIL OHMMETER TEST | |
| | | | Primary (Low Ohms) | Secondary (High Ohms) |
| | | | 0.1 ± 0.05 | 275 ± 50 |

+Orifice part numbers and size are subject to change due to atmospheric conditions, manufacturing changes, and other conditions beyond our control. Check with current part catalogs or Service Bulletins before making any jet changes.

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