

SPECIFICATIONS

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| Models 25R78 and 35R78, Manual Start | Standard Length (15" transom) (381 mm) |
| Models 25E78 and 35E78, Electric Start | Standard Length |
| Models 25RL78 and 35RL78, Manual Start | Long Shaft (20" transom) (508 mm) |
| Models 25EL78 and 35EL78, Electric Start | Long Shaft |

POWER HEAD

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| 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 |

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| Tank test | |
| 25 HP - Wheel part number 388880, 5200 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 cm ³) | |
| Piston and rings available standard and 0.030" oversize | |
| Thickness of ring | Upper - 0.0900 - 0.0895 in. (2.286 - 2.273 mm) Lower - 0.0625 - 0.0615 in. (1.588 - 1.562 mm) |
| Crankshaft size | |
| Top journal | 1.2510 - 1.2515 in. (31.775 - 31.788 mm) |
| Center journal | 1.1805 - 1.1810 in. (29.985 - 29.997 mm) |
| Bottom journal | 0.9842 - 0.9846 in. (24.999 - 25.009 mm) |
| Connecting rod crank pin | 1.1828 - 1.1823 in. (30.043 - 30.030 mm) |

CARBURETOR

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| Carburetion | Single barrel, float feed, fixed high speed, adjustable low-speed (under motor cover), manual choke |
| High speed orifice plug | 25 HP - Part Number 324020 Identification Number 49-D 35 HP - Part Number 319831 Identification Number 59-D |
| Float level setting | Flush with rim of casting |
| Inlet needle seat | 0.065 - 0.062 (1.65 - 1.57 mm) Use #53 drill as gage |
| Initial low speed needle setting | 1-1/4 turns open |
| Idle speed | 650 rpm maximum |
| Maximum neutral rpm | 2000 - 3500 rpm |
| Cooling system | Combination positive displacement and centrifugal pump Pressure relief and 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 9-1/4" dia. x 9" pitch SST 3 blade 9" dia. x 9" pitch 3 blade 9" dia. x 10" pitch 3 blade 9-1/4" dia. x 7" pitch 3 blade 9-1/4" dia. x 9" pitch SST |

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| | 3 blade 9-1/4" dia. x 12" pitch SST |
| | 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 10-1/4" dia. x 13" pitch SST |
| | 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 25R78, 101 lbs. (45.8 kg) Model 25RL78, 104 lbs. (47.2 kg) Model 25E78, 103 lbs. (46.7 kg) Model 25EL78, 106 lbs. (48.1 kg) Model 35R78, 114 lbs. (51.7 kg) Model 35RL78, 118 lbs. (53.5 kg) Model 35E78, 117 lbs. (53.1 kg) Model 35EL78, 121 lbs. (54.9 kg) (Fuel tank weight 11 pounds - net 5 kg) 6 gallons (22.7 litres) |
| Fuel capacity | |

ELECTRICAL SYSTEM

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| 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

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| Ignition | Magneto breakerless C.D. |
| Spark plug | Champion L78V |
| Alternate Spark plug | Champion L77J4 or AC M40FFX gapped at 0.040" (1.0 mm) |
| Spark plug torque | 17-1/2 - 20-1/2 foot-pounds (24 - 27 N·m) |
| Ignition coil | Part No. 581862 |

IGNITION COIL TEST SPECIFICATIONS

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| Stevens Model ST-75 | | |
| Reverse Polarity (Switch Setting CD) | | 1.6 |
| 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 |
| 1.7 | 0.1 Ohm or less | 5 (approx.) |
| Graham Tester Model 51 | | |
| Maximum Secondary | 1,000 ohms | |
| Maximum Primary | 0.6 ohm | |
| Maximum Primary DC Ohms (Point Test) | 1.0 ohms | |
| 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.) | |

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