

**SPECIAL TOOLS AND SERVICE SPECIFICATIONS**  
**TECHNICAL DATA**

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|  | <b>HP</b>  | <b>6</b>   | <b>8</b>  |
|--|--|--|---|
|  | Full Throttle Operating Range RPM                | 5500-6500  | 5000-6000   |
|  | Power  | 6 HP (4.5 kw) @ 6000 RPM   | 8 HP (6.0 kw) @ 5500  |
|  | Idle RPM in Gear                                 | 1200 ± 50  | 1000 ± 50   |
|  | Weight   | (R) Models: 68 lbs. (31 kg)<br>(RL) Models: 71.5 lbs. (33 kg)  | (R) Models: 82 lbs. (37 kg)<br>(RL) Models: 87 lbs. (39 kg) |
|  | Lubrication                                      | <i>Evinrude/Johnson Ultra</i> 4-Stroke synthetic blend oil<br>Refer to <b>Engine Lubricant</b> , this section. |   |
|  | Crankcase Oil Capacity                           | 27.0 fl. oz. (0.8 liter)   | 33.8 fl. oz. (1.0 liter)                                    |
|  | Engine Type                                      | Four-Stroke, In-line 1 cylinder, OHC   | Four-Stroke, In-line 2 cylinder, OHC                        |
|  | Displacement                                     | 7.8 cu. in. (128 cc)   | 12.87 cu. in. (211 cc)                                      |
|  | Bore   | 2.22 in. (56.6 mm)   | 2.22 in. (56.6 mm)  |
|  | Stroke   | 2.01 in. (51.0 mm)   | 1.65 in. (42.0 mm)  |
|  | Standard Bore                                    | 2.2244 to 2.2248 in. (56.50 to 56.51 mm)   | 2.2244 to 2.2248 in. (56.50 to 56.51 mm)                    |
|  |  | To bore oversize, add piston oversize dimension to standard bore   |   |
|  | Top Crankshaft Journal                           | 0.9837 to 0.9842 in. (24.98 to 25.00 mm)   | 1.2200 to 1.2204 in. (30.99 to 31.00 mm)                    |
|  | Bottom Crankshaft Journal                        | 0.9837 to 0.9842 in. (24.98 to 25.00 mm)   | 1.2200 to 1.2204 in. (30.99 to 31.00 mm)                    |
|  | Rod Crankpin                                     | 1.1795 to 1.1791 in. (29.96 to 29.95 mm)   | 1.1401 to 1.1398 in. (28.96 to 28.95 mm)                    |
|  | Camshaft Intake Lobe                             | 0.954 ± 0.002 in. (24.222 ± 0.05 mm)   | 0.954 ± 0.002 in. (24.222 ± 0.05 mm)                        |
|  | Camshaft Exhaust Lobe                            | 0.955 ± 0.002 in. (24.262 ± 0.05 mm)   | 0.955 ± 0.002 in. (24.262 ± 0.05 mm)                        |
|  | Piston Ring End Gap, Top Two Rings               | 0.006 to 0.014 in. (0.15 to 0.36 mm)   | 0.006 to 0.014 in. (0.15 to 0.36 mm)                        |
|  | Piston Ring Groove Side Clearance, Top Two Rings | 0.004 in (0.10 mm) maximum   |   |
|  | Intake Tappet Clearance                          | 0.003 in. (0.08 mm) cold   | 0.003 in. (0.08 mm) cold                                    |
|  | Exhaust Tappet Clearance                         | 0.005 in. (0.12 mm) cold   | 0.005 in. (0.12 mm) cold                                    |
|  | Test Propeller                                   | 444508   | 386537  |
|  | Minimum Test RPM                                 | 5500   | 4800  |

**ENGINE**