

# SPECIFICATIONS

Model Numbers	6R77 - Standard 15" (381 mm) transom 6RL77 Long 20" (508 mm) transom	Speed control	Twist-grip, synchronized throttle and spark																																																							
*Horsepower (B.I.A. - certified)	6 hp at 4500 rpm	Gear shift control	Forward, neutral, and reverse																																																							
Full throttle operating range	4000 - 5000 rpm	Weight (without fuel tank)	Standard - 54 pounds (24.5 kg) Long - 55 pounds (25 kg) (Fuel tank weight 11 pounds (5 kg) net)																																																							
Tank test with test wheel	4500 rpm Part Number 379673	Fuel capacity	6 gallons (22.7 liters)																																																							
Engine type	2 cylinder, 2 cycle, alternate firing	Starter	Manual, self-rewinding																																																							
Bore and stroke	1-15/16" bore x 1-1/2" stroke (49.21 x 38.10 mm)	Ignition	Flywheel magneto breakerless CD																																																							
Piston displacement	8.84 cubic inches (145 cm <sup>3</sup> )	Spark plug	AC-M40FFX, Champion L77J4, - 14 mm																																																							
Piston ring sets (2 per set) standard	Part Number 378432	Spark plug gap	.040 inch (1.0 mm)																																																							
.030 oversize	Part Number 384336	Spark plug torque	17-1/2 - 20-1/2 Foot-pounds (24 - 27 N.m)																																																							
Diameter of ring	1.9375 in. (standard) (49.21 mm)	Charge coil resistance	575 ± 75 ohms																																																							
Width of ring	.0935 - .0925 in. (2.37 - 2.34 mm)	Ignition coil	Part No. 581686																																																							
Piston less rings standard	Part Number 386692	<h2>COIL TEST SPECIFICATIONS</h2> <table border="1" style="margin: auto;"> <thead> <tr> <th colspan="3">Stevens Model ST-75</th> </tr> <tr> <th colspan="3">Reverse Polarity (Switch Setting CD)</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td style="text-align: right;">1.9</td> </tr> <tr> <th colspan="3">Stevens Tester Model M.A.-75 or M.A.-80</th> </tr> <tr> <th>Switch</th> <th colspan="2">Index Adjustment</th> </tr> <tr> <td>**A</td> <td colspan="2" style="text-align: center;">20</td> </tr> <tr> <th colspan="3">Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980</th> </tr> <tr> <th>Operating Amperage</th> <th>Primary Resistance</th> <th>*Secondary Continuity</th> </tr> <tr> <td>Min. - Max.</td> <td>Min. - Max.</td> <td>Min. - Max.</td> </tr> <tr> <td>1.9</td> <td>.1 Ohm</td> <td>8 - 20</td> </tr> <tr> <td colspan="3">**Use Model CD-1 Adapter Red test clip to orange/black Black test clip to orange</td> </tr> <tr> <th colspan="3">Graham Tester Model 51</th> </tr> <tr> <td>Maximum Secondary</td> <td colspan="2" style="text-align: right;">3,000 ohms</td> </tr> <tr> <td>Maximum Primary</td> <td colspan="2" style="text-align: right;">0.6 ohm</td> </tr> <tr> <td>Coil Index</td> <td colspan="2" style="text-align: right;">50</td> </tr> <tr> <td>Coil Test Minimum AMPLIFIED</td> <td colspan="2" style="text-align: right;">27 (With secondary circuit "open.")</td> </tr> <tr> <td colspan="3" style="text-align: right;">Hi tension lead disconnected</td> </tr> <tr> <td>Gap Index</td> <td colspan="2" style="text-align: right;">50 (Coil must fire spark gap on tester at this setting.)</td> </tr> </tbody> </table>			Stevens Model ST-75			Reverse Polarity (Switch Setting CD)					1.9	Stevens Tester Model M.A.-75 or M.A.-80			Switch	Index Adjustment		**A	20		Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980			Operating Amperage	Primary Resistance	*Secondary Continuity	Min. - Max.	Min. - Max.	Min. - Max.	1.9	.1 Ohm	8 - 20	**Use Model CD-1 Adapter Red test clip to orange/black Black test clip to orange			Graham Tester Model 51			Maximum Secondary	3,000 ohms		Maximum Primary	0.6 ohm		Coil Index	50		Coil Test Minimum AMPLIFIED	27 (With secondary circuit "open.")		Hi tension lead disconnected			Gap Index	50 (Coil must fire spark gap on tester at this setting.)	
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Connecting rod crank pin	.6690 - .6685 in. (17.526 - 16.979 mm)	<h2>IGNITION COIL OHMMETER TEST</h2> <table border="1" style="margin: auto;"> <thead> <tr> <th>Primary Low Ohms</th> <th>Secondary High Ohms</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">.1 ± .05</td> <td style="text-align: center;">1,300 ± 200</td> </tr> </tbody> </table>			Primary Low Ohms	Secondary High Ohms	.1 ± .05	1,300 ± 200																																																		
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Carburetion	Single barrel, float feed, low-speed adjustment. Fixed high speed jet																																																									
Float level setting	Flush with rim of casting																																																									
Carburetor orifice plug	Hole size .052" (1.32 mm) Part Number 322249																																																									
Inlet needle seat	.053" to .050" (1.35 - 1.27 mm). Use a #55 drill as gage																																																									
Cooling system	Combination positive displacement and centrifugal pump Thermostatically controlled																																																									
Propeller gear ratio	12:25																																																									
Propeller drive pin	Part Number 307949, 3/16" x 1-25/64" (4.76 x 35.32 mm) stainless steel																																																									
Propeller	8" diameter x 7" pitch, 3 blade																																																									

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