

# SPECIFICATIONS

Model Numbers	6R78 - Standard 15" (381 mm) transom 6RL78 - 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 (24.9 kg) (Fuel tank weight 8.2 pounds (3.7 kg) net)	
Tank test with test wheel	4500 rpm	Fuel capacity	3 gallons (11.4 litres)	
Idle speed	Part Number 379673 550 rpm in gear	Starter	Manual, self-rewinding	
Engine type	2 cylinder, 2 cycle, alternate firing	Ignition	Flywheel magneto breakerless CD	
Bore and stroke	1-15/16" bore x 1-1/2" stroke (49.21 x 38.10 mm)	Spark plug	Champion L78V	
Piston displacement	8.84 cubic inches (145 cm <sup>3</sup> )	Alternate spark plug	Champion L77J4 or AC M40FFX gapped at 0.040" (1.0 mm)	
Piston ring sets (2 per set) standard	Part Number 378432	Spark plug torque	17-1/2 - 20-1/2 Foot-pounds (24 - 27 N·m)	
.030 oversize	Part Number 384336	Charge coil resistance	575 ± 75 ohms	
Width of ring	0.0935 - 0.0925 in. (2.375 - 2.350 mm)	Ignition coil	Part No. 581862	
Piston less rings standard	Part Number 386692	<b>COIL TEST SPECIFICATIONS</b>		
.030" oversize	Part Number 386691			
Crankshaft size top journal	0.8080 - 0.8075 in. (20.523 - 20.510 mm)	Stevens Model ST-75		
center journal		Reverse Polarity (Switch Setting CD) 1.6		
bottom journal		Stevens Tester Model M.A.-75 or M.A.-80		
Connecting rod crank pin	0.6690 - 0.6685 in. (16.993 - 16.980 mm)	<u>Switch</u> **A	<u>Index Adjustment</u> 20	
Carburetion	Single barrel, float feed, low-speed adjustment. Fixed high speed jet	Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980		
Float level setting	Flush with rim of casting	Operating Amperage	Primary Resistance	*Secondary Continuity
Carburetor orifice plug	Hole size 0.042 (1.07 mm) Part Number 322249	Min. - Max.	Min. - Max.	Min. - Max.
Inlet needle seat	0.053" to 0.050" (1.35 - 1.27 mm) Use a #55 drill as gage	1.7	0.1 Ohm or Less	5 approx.
Cooling system	Combination positive displacement and centrifugal pump Thermostatically controlled	**Use Model CD-1 Adapter Red test clip to orange/black Black test clip to orange		
Propeller gear ratio	12:25	Graham Tester Model 51 Maximum Secondary . . . . . 1,000 ohms Maximum Primary . . . . . 0.6 ohm Maximum Primary DC Ohms (Point Test). . 1.0 ohm 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.)		
Propeller drive pin	Part Number 307949,			
Propeller	8" diameter x 7" pitch, 3 blade	<b>IGNITION COIL OHMMETER TEST</b>		
		Primary Low Ohms		Secondary High Ohms
		0.1 ± 0.05		275 ± 25

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