

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	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 ³)	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	COIL TEST SPECIFICATIONS		
.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)	Switch **A	Index Adjustment 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		
Propeller drive pin	Part Number 307949,	Maximum Secondary 1,000 ohms		
Propeller	8" diameter x 7" pitch, 3 blade	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.)		
		IGNITION COIL OHMMETER TEST		
		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.