

# SPECIFICATIONS

Models	4W78 Weedless gearcase, standard length 4R78 Standard gearcase, standard length 4RL78 Standard gearcase, long shaft	<b>LOWER UNIT</b>														
<b>POWERHEAD</b>		Cooling system	Combination positive displacement and centrifugal pump.													
*Horsepower (B.I.A. - certified)	4 hp at 4500 rpm	Propeller gear ratio	17:28 Weedless 12:25 Standard													
Full throttle operating range	4000 to 5000 rpm	Propeller drive pin	Part Number 316558													
Test tank rpm with test wheel	3800 rpm Part No. 316021 for Weedless	Propeller	Standard - 7-1/2" dia x 6" pitch, 3 blade plastic													
	4550 rpm Part No. 317738 for Standard	Propeller	Weedless - 6-1/4" dia x 6" pitch, 2 blades plastic													
Idle rpm	700 rpm	<b>MISCELLANEOUS</b>														
Engine type	2-cylinder, 2 cycle alternate firing	Speed control	Single lever, synchronized throttle and spark													
Bore and stroke	1-9/16" (39.69 mm) bore x 1-3/8" (34.93 mm) stroke	Weight	Weedless - 38.0 lbs. (17.2 kg) Standard - 38.0 lbs. (17.2 kg)													
Piston displacement	5.28 cubic inches (87 cm <sup>3</sup> )	Starter	Automatic rewind - nylon rope													
Piston ring sets (2 per set) standard	Part Number 383920	<b>IGNITION SYSTEM</b>														
0.030" oversize	Part Number 384312	Ignition	Flywheel magneto, breakerless C.D.													
Width of ring	0.0625-0.0615 in. (1.588 - 1.562 mm)	Spark plug	AC-M40FFX Champion L77J4, - 14 mm													
Piston assembly standard	Part Number 388726	Spark plug gap	.040 inch (1.0 mm)													
0.030" oversize	Part Number 388728	Spark plug torque	17-1/2 - 20-1/2 foot-pounds (24 - 27 N·m)													
0.020" oversize	Part Number 388727	Ignition Coil	#1 Cylinder - Part No. 581862 #2 Cylinder - Part No. 581819													
Crankshaft size top journal	0.751 - 0.7505 in. (19.075 - 19.063 mm)	<b>IGNITION COIL TEST SPECIFICATIONS</b>														
center journal	0.6690 - 0.6685 in. (16.993 - 16.980 mm)	Stevens Model ST-75														
bottom journal	0.7502 - 0.7498 in. (19.055 - 19.045 mm)	Reverse Polarity (Switch Setting CD) 1.6														
Connecting rod crank pin	0.6690 - 0.6685 (16.993 - 16.980)	Stevens Tester Model M.A.-75 or M.A.-80														
<b>FUEL SYSTEM</b>		<table border="1"> <thead> <tr> <th>Switch **A</th> <th colspan="2">Index Adjustment 20</th> </tr> </thead> <tbody> <tr> <td colspan="3">Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980</td> </tr> <tr> <td>Operating Amperage</td> <td>Primary Resistance</td> <td>**Secondary Continuity</td> </tr> <tr> <td>1.7</td> <td>0.1 Ohm OR LESS</td> <td>5 - APPROX.</td> </tr> </tbody> </table>			Switch **A	Index Adjustment 20		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.
Switch **A	Index Adjustment 20															
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.														
Carburetion	Single barrel float feed, with fixed high and adjustable low-speed jet, manual choke															
Float level setting	Flush with casting															
Inlet needle seat	0.053 - 0.050 (1.35 - 1.27 mm) Use a #55 drill as gage.															
Fuel tank capacity	3 gallons (11.4 litres)															

\*\*Use Model CD-1 Adapter Red test clip to orange/black  
Black test clip to orange