

# SPECIFICATIONS

Model	4W77 (Weedless gearcase) 4R77 (Standard gearcase)
*Horsepower (B.I.A. - certified)	4 hp at 4500 rpm
Full throttle operating range	4000 to 5000 rpm
Test tank rpm with test wheel	4100 rpm Part No. 316021 for Weedless 4550 rpm Part No. 317738 for Standard
Engine type	2-cylinder, 2 cycle alternate firing
Bore and stroke	1-9/16" (39.69 mm) bore x 1-3/8" (34.93 mm) stroke
Piston displacement	5.28 (86 cm <sup>3</sup> ) cubic inches
Piston ring sets (2 per set) standard .030" oversize	Part Number 383920 Part Number 384312
Diameter of ring	1.563 in. (39.70 mm) standard
Width of ring	.0625-.0615 in. (1.588 - 1.562 mm)
Piston assembly standard .030" oversize	Part Number 384651 Part Number 384666
Crankshaft size top journal	0.7520 - .7515 in. (19.101-19.088mm)
center journal	0.6854 - .6849 in. (17.409-17.396mm)
bottom journal	0.6854 - .6849 in. (17.41-17.396mm)
Connecting rod crank pin	0.6255 - .6250 in. (15.888 - 15.875mm)
Carburetion	Single barrel float feed, with high and low-speed adjust- ments manual choke
Float level setting	Flush with casting
Inlet needle seat	.053 - .050 (1.35 - 1.27mm) Use a #55 drill as gage.
Cooling system	Combination positive displacement and centrifugal pump.
Propeller gear ratio	17:28 Weedless 12:25 Standard
Propeller drive pin	Part Number 316558 1/8" x 1.234" stainless steel
Propeller	Standard - 7-1/2" dia x 6" pitch, 3 blade plastic

Propeller	Weedless - 6-1/4" dia x 6" pitch, 2 blades plastic
Speed control	Single lever, synchronized throttle and spark
Weight	Weedless - 36.0 lbs. (16.3kg) Standard - 38.0 lbs. (17.2kg)
Fuel tank capacity	3 (11.4 liters) gallons
Starter	Automatic rewind - nylon rope
Ignition	Flywheel magneto, breaker- less C.D.
Spark plug	AC-M40FFX Champion L77J4, - 14 mm
Spark plug gap	.040 inch (1.0mm)
Spark plug torque	17-1/2 - 20-1/2 foot-pounds (24 - 27 N·m)
Ignition Coil	#1 Cylinder - Part No. 581686 #2 Cylinder - Part No. 581685

### IGNITION COIL TEST SPECIFICATIONS

Stevens Model ST-75		
Reverse Polarity (Switch Setting CD)		1.9
Stevens Tester Model M.A.-75 or M.A.-80		
Switch **A	Index Adjustment	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.)

### IGNITION COIL OHMMETER TEST

Primary (Low Ohms)	Secondary (High Ohms)
0.1 ± 0.05	1300 ± 200

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