

SPECIFICATIONS

Model Numbers	2R77
*Horsepower (B.I.A.-certified)	2 HP at 4500 rpm
Full throttle operating range	4200 to 4800 RPM
Test tank with test wheel	3900 RPM
Test wheel	Part Number 316021
Engine type	Single cylinder, 2 cycle
Bore and stroke	1-9/16" bore x 1-3/8" stroke (39.69 x 34.93 mm)
Piston displacement	2.64 cubic inches (43 cm ³)
Piston ring sets (2 per set)	
Standard	Part Number 383920
.030" (0.76 mm) oversize	Part Number 384312
Diameter of ring	1.563 in. (standard) (39.7 mm)
Width of ring	.0625 - .0615 in. (1.59 - 1.565 mm)
Width of ring	.0625 - .0615 in.
Piston assembly - standard	Part Number 384651
.030" (0.76 mm) oversize piston less rings	Part Number 384666
Crankshaft size	
Top journal	.7502 - .7497 in. (17.409 - 17.396 mm)
Bottom journal	.7502 - .7497 in. (17.409 - 17.396 mm)
Connecting rod crank pin	.6690 - .6685 in. (15.811 - 15.875 mm)
Carburetion	Single barrel float feed, with high and low speed adjustments
Float level setting	Flush with casting
Inlet needle seat	.050 - .053 (1.27 - 1.346 mm) Use a #55 drill as gage
Cooling system	Vari-volume pump
Propeller gear ratio	12:25
Propeller drive pin	Part Number 316558
Propeller	7-1/4 x 4-1/2 (184 x 114.3 mm)
Speed control	Single lever, synchronized throttle and spark
Weight	24 lbs. (10.9 Kg)
Fuel capacity	Gravity feed integral tank 1 qt. (.95 liter)
Starter	Manual self rewinding
Ignition	Flywheel magneto
Spark plug	AC-M44C, Champion J6J - 14 mm
Spark plug gap	.030 inch (0.76 mm)
Spark plug torque	17-1/2 - 20-1/2 foot-pounds (24-27 N·m)
Breaker point gap	.020 inch (0.51 mm)
Condenser	Part Number 580321
Capacity	.18 to .22 Mfd.
Coil	Part Number 580971

COIL TEST SPECIFICATIONS

Stevens Tester Model ST-75

Normal Polarity (Switch Setting Standard)	2.2
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Stevens Tester Model No. M.A. -75 or 80

Switch	Index Adjustment
B	22

Merc-O-Tronic

Operating Amperage	Primary Resistance		Secondary Continuity	
	Min.	Max.	Min.	Max.
1.6	.5	.7	35	45

Graham Tester Model 51

Maximum Secondary	Maximum Primary	Coil Index	Minimum Coil Test	Max. Gap Index
5500	1.2	75	33	75

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