

Specifications - 65

General

65

Full Throttle Operating Range	4500 - 5500
Idle rpm in Forward Gear	750 rpm
Test Wheel and rpm	Part No. 386665 (11-3/16" dia. x 1-27/32" wide) RS and WMLP-4650 rpm WT, WMLC, RW and TE-5000 rpm

Powerhead

Bore and Stroke	76,20 mm x 59,53 mm (3.000" Bore x 2.3437" Stroke)
Piston Displacement	814 cm ³ (49.7 cu. in.)
Crankshaft Size	
Top Journal	38,047 - 38,034 mm (1.4979" - 1.4974")
Center Journal	34,930 - 34,920 mm (1.3752" - 1.3748")
Bottom Journal	30,110 - 29,997 mm (1.1815" - 1.1810")
Connecting Rod Crankpin	30,043 - 30,030 mm (1.1828" - 1.1823")
+Standard Bore Size	76,213 - 76,187 mm (2.9995 - 3.0005")

+To determine correct bore size for oversize pistons, merely add oversize dimension to standard bore size.

Ignition System

Ignition	Flywheel magneto, breakerless C.D.
Spark Plugs	
Sustained Low Speed Operation	QL77JC4
Alternate	L77JC4
Gap Setting	1,0 mm (0.040")
Sustained High Speed Operation	QL78V
Alternate	L78V
Gap Setting	Gap is permanent
Ignition Coil	Part No. 582508
RPM Limiter Powerpack	Part No. 582537 (5800 rpm)

Ignition Coil Test Specifications - Part No. 582508

Stevens Model ST-75	Merc-O-Tronic 9800 or 98 with Adapter Model 55-980
Maximum Operating Amperage (Reverse Polarity - Switch Setting: CD) 1.1 Amps	Maximum Operating Amperage (Reverse Polarity) 1.5 Amps
Stevens Tester Model M.A.-75 or M.A.-80	Primary Resistance 0.1
Switch A (Use Model CD-1 Adapter - Reverse Polarity)	Secondary Continuity 5 approx.
Index Adjustment 20	

Specifications - 100 and 155

General

100

155

Full Throttle Operating Range	4500 - 5500 rpm	4500 - 5500 rpm
Idle rpm in Forward Gear	650 rpm	650 rpm
Test Wheel and rpm	WML, WTL-P/N 387388 WMP, WTP-P/N 386246 (11-1/8" dia. x 2-1/4" wide) All models - 4800 rpm	WTL, WTX-P/N 392622 WTPL, WTPX-P/N 387388 (11-1/8" dia. x 2-1/4" wide) All models - 4500 rpm

Powerhead

Bore and Stroke	88,90 mm x 65,74 mm (3.500" Bore x 2.588" Stroke)	88,90 mm x 65,74 mm (3.500" Bore x 2.588" Stroke)
Piston Displacement	1632 cm ³ (99.6 cu. in.)	2448 cm ³ (149.4 cu. in.)
Width of Ring		
Upper	2,273 - 2,286 mm (0.0895" - 0.0900")	2,273 - 2,286 mm (0.0895" - 0.0900")
Lower	1,562 - 1,588 mm (0.0615" - 0.0625")	1,562 - 1,588 mm (0.0615" - 0.0625")
Crankshaft Size		
Top Journal	41,158 - 41,145 mm (1.6204" - 1.6199")	41,158 - 41,145 mm (1.6204" - 1.6199")
Center Journal(s)	55,563 - 55,550 mm (2.1875" - 2.1870")	55,563 - 55,550 mm (2.1875" - 2.1870")
Bottom Journal	35,011 - 34,999 mm (1.3784" - 1.3779")	35,011 - 34,999 mm (1.3784" - 1.3779")
Connecting Rod Crankpin	34,955 - 34,943 mm (1.3762" - 1.3757")	34,955 - 34,943 mm (1.3762" - 1.3757")
+Standard Bore Size	88,887 - 88,913 mm (3.4995" - 3.5005")	88,887 - 88,913 mm (3.4995" - 3.5005")

+To determine correct bore size for oversize pistons, merely add oversize dimension to standard bore size.

Ignition System

Ignition	Flywheel magneto, breakerless C.D.	Flywheel magneto, breakerless C.D.
Spark Plug		
Champion	L78V or QL78V	UL77V or QUL77V
Ignition Coil	Part No. 582508	Part No. 582508
RPM Limiter Powerpack	Part No. 582684 (5700 rpm)	Part No. 582651 (5800 rpm)

Ignition Coil Test Specifications - Part No. 582508

Stevens Model ST-75	Merc-O-Tronic 9800 or 98 with Adapter Model 55-980
Maximum Operating Amperage (Reverse Polarity - Switch Setting: CD) 1.1 Amps	Maximum Operating Amperage (Reverse Polarity) 1.5 Amps
Stevens Tester Model M.A.-75 or M.A.-80	Primary Resistance 0.1
Switch A (Use Model CD-1 Adapter - Reverse Polarity)	Secondary Continuity 5 approx.
Index Adjustment 20	

Ignition Component Tests - 100

	Resistance		Ground Test		Output (Cranking)	
	Meter Setting	Reading	Meter Setting	Reading	Meter Setting	Reading
Charge coil	High ohms scale	560 ± 25 Ω	High ohms scale	∞	(-), 500	150
Sensor coil	Low ohms scale	40 ± 10 Ω	Low ohms scale	∞	S, 5	0,3
Power pack	—	—	—	—	(-), 500	150
Ignition coil primary	Low ohms scale	0,1 ± 0,05 Ω				
Secondary	High ohms scale	275 ± 50 Ω				