

Specifications - 6.5

General

6.5

Full Throttle Operating Range	4500 - 5500 rpm
Idle rpm in Forward Gear	650 rpm
Test Wheel and rpm	Part No. 390239 (5-3/4" dia. x 1-1/8" wide) 4900 rpm

Powerhead

Bore and Stroke	49,21 mm x 43,18 mm (1.9375" Bore x 1.700" Stroke)
Piston Displacement	164 cm ³ (10.0 cu. in.)
Crankshaft Size	
Top Journal	22,282 - 22,155 mm (0.87725" - 0.87225")
Center Journal	20,712 - 20,585 mm (0.81545" - 0.8104")
Bottom Journal	19,207 - 19,045 mm (0.7562" - 0.7498")
Connecting Rod Crank Pin	17,018 - 17,005 mm (0.6700" - 0.6695")
+Standard Bore Size	49,23 - 49,20 mm (1.9380" - 1.9373")

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

Ignition System

Ignition	Flywheel magneto, breakerless C.D.
Spark Plug (Champion)	
Sustained Low Speed Operation	QL77J4
Alternate	L77J4
Gap Setting	1,0 mm (0.040")
Sustained High Speed Operation	QL78V
Alternate	L78V
Gap Setting	Gap Is Permanent
Ignition Coil	Part No. 582508

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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)	Maximum Operating Amperage (Reverse Polarity)
1.1 Amps	1.5 Amps
Stevens Tester Model M.A.-75 or M.A.-80	Primary Resistance
	0.1
Switch	Secondary Continuity
A (Use Model CD-1 Adapter - Reverse Polarity)	5 approx.
Index Adjustment	
20	

Ignition Component Tests						
	Resistance		Ground Test		Cranking Output	
	Meter Setting	Reading	Meter Setting	Reading	Meter Setting	Reading
Charge coil	High ohms scale	575 ± 25 Ω	High ohms scale	∞	(-), 500	230
Sensor coil	Low ohms scale	40 ± 10 Ω	Low ohms scale	∞	S, 5	2
Power pack	—	—	—	—	(-), 500	200
Ignition coil primary	Low ohms scale	0,1 ± 0,05 Ω				
Secondary	High ohms scale	275 ± 50 Ω				

Specifications - 10, 11 and 14

General

	11	10 and 14
Full Throttle Operating Range	4500 - 5500 rpm	10 - 4000 - 5000 rpm 14 - 5000 - 6000 rpm
Idle rpm in Forward Gear	900 rpm Max.	900 rpm Max.
Test Wheel and rpm	Part No. 395096 4850 rpm	Part No. 395096 10 - 5150 rpm Min. 14 - 5250 rpm Min.

Powerhead

Bore and Stroke	55,58 Bore x 44,70 mm Stroke (2.188" x 1.760")	55,58 Bore x 44,70 mm Stroke (2.188" x 1.760")
Piston Displacement	216 cm ³ (13.20 cu. in.)	216 cm ³ (13.20 cu. in.)
Crankshaft Size		
Top Journal	22,255 - 22,243 mm (0.8762" - 0.8757")	22,255 - 22,243 mm (0.8762" - 0.8757")
Center Journal	20,638 - 20,625 mm (0.8125" - 0.8120")	20,638 - 20,625 mm (0.8125" - 0.8120")
Bottom Journal	19,200 - 19,990 mm (0.7874" - 0.7870")	19,200 - 19,990 mm (0.7874" - 0.7870")
Connecting Rod Crankpin	20,638 - 20,625 mm (0.8125" - 0.8120")	20,638 - 20,625 mm (0.8125" - 0.8120")
+Standard Bore Size	55,58 - 55,56 mm (2.1883" - 2.1875")	55,58 - 55,56 mm (2.1883" - 2.1875")

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

Ignition System

Ignition	Flywheel magneto, breakerless C.D.	Flywheel magneto, breakerless C.D.
Spark Plugs (Champion)		
Recommended	QUL77V	QL78V
Alternate	UL77V	L78V
Gap Setting	Gap Is Permanent	Gap Is Permanent
Ignition Coil	Part No. 582508	Part No. 582508

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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)	Maximum Operating Amperage (Reverse Polarity)
1.1 Amps	1.5 Amps
Stevens Tester Model M.A.-75 or M.A.-80	Primary Resistance
Switch	Secondary Continuity
A (Use Model CD-1 Adapter - Reverse Polarity)	0.1 5 approx.
Index Adjustment	
20	

Ignition Component Tests						
	Resistance		Ground Test		Cranking Output	
	Meter Setting	Reading	Meter Setting	Reading	Meter Setting	Reading
Charge coil	High ohms scale	575 ± 25 Ω	High ohms scale	∞	(-), 500	230
Sensor coil	Low ohms scale	40 ± 10 Ω	Low ohms scale	∞	S, 5	2
Power pack	—	—	—	—	(-), 500	200
Ignition coil primary	Low ohms scale	0,1 ± 0,05 Ω				
Secondary	High ohms scale	275 ± 50 Ω				

Specifications - 25 and 40

General

25

40

Full Throttle Operating Range	4000 - 5000 rpm	4000 - 5000 rpm
Idle rpm in Forward Gear	650 rpm	700 rpm
Test Wheel and rpm	Part No. 396561	Part No. 378566
	4200 rpm Min.	(7" dia. x 1-5/8" wide)
		4600 rpm

Powerhead

Bore and Stroke	76,20 x 57,15 mm	80,90 x 69,85 mm
	(3.000" Bore x 2.250" Stroke)	(3.1875" Bore x 2.7500" Stroke)
Piston Displacement	521 cm ³ (31.8 cu. in.)	719 cm ³ (43.9 cu. in.)
Crankshaft Size		
Top Journal	31,775 - 31,788 mm (1.2510" - 1.2515")	38,046 - 38,034 mm (1.4979" - 1.4974")
Center Journal	30,056 - 30,069 mm (1.1833" - 1.1838")	34,930 - 34,620 mm (1.3752" - 1.3748")
Bottom Journal	24,999 - 25,009 mm (0.9842" - 0.9846")	30,017 - 29,997 mm (1.1815" - 1.1810")
Connecting Rod Crankpin	30,043 - 30,030 mm (1.1828" - 1.1823")	30,043 - 30,030 mm (1.1828" - 1.1823")
+Standard Bore Size	76,21 - 76,19 mm (3.0005" - 2.9995")	80,98 - 80,95 mm (3.1880" - 3.1870")

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

Ignition System

Ignition	Flywheel magneto, breakerless C.D.	Flywheel magneto, breakerless C.D.
Spark Plug (Champion)		
Sustained Low Speed Operation	QL77JC4 (QUL77V-KERO)	QL78VJ4
Alternate	L77JC4 (UL77V-KERO)	L78V
Gap Setting	1,0 mm (0.040")	Gap Is Permanent
Sustained High Speed Operation	QL78V (QUL77V-KERO)	QL78V
Alternate	L78V (UL77V-KERO)	L78V
Gap Setting	Gap Is Permanent	Gap Is Permanent
Ignition Coil	Part No. 582508	Part No. 582508
RPM Limiter Powerpack	P/N 582504 (5100 rpm)	P/N 582714 (5100 rpm)

Ignition Coil Test Specifications - Part No. 582366

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

Specifications - 45 and 55

General

45 AND 55

Full Throttle Operating Range	4500 - 5500
Idle rpm in Forward Gear	750 rpm
Test Wheel and rpm	Part No. 382861 (10" dia. x 2" wide) 5200 rpm

Powerhead

Bore and Stroke	80,96 - 71,63 mm (3.1875" Bore x 2.820" Stroke)
Piston Displacement	737 cm ³ (45 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	80,98 - 80,95 mm (3.1880" - 3.1870")

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

Ignition System

Ignition	Flywheel magneto breakerless C.D.
Ignition Coil	Part No. 582508
RPM Limiter Powerpack	Part No. 582889 (5800 rpm)
Spark Plug (Champion)	
Sustained Low Speed Operation	45 - QL78V, 55 - QL77JC4
Alternate	45 - L78V, 55 - L77JC4
Gap Setting	55 - 1,0 mm (0.040")
Sustained High Speed Operation	QL78V
Alternate	L78V
Gap Setting	Gap Is Permanent

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

	Resistance		Ground Test		Cranking Output	
	Meter Setting	Reading	Meter Setting	Reading	Meter Setting	Reading
Charge coil	High ohms scale	575 ± 25 Ω	High ohms scale	∞	(-), 500	230
Sensor coil	Low ohms scale	45 ± 10 Ω	Low ohms scale	∞	S, 5	2
Power Pack					(-), 500	200
Ignition coil primary	Low ohms scale	0,1 ± 0,05 Ω				
Secondary	High ohms scale	275 ± 50 Ω				