

SPECIFICATIONS

Model Numbers	9R69 - Standard length (15" transom) 9RL69 - 5" longer (20" transom)	Speed control	On steering handle, synchronized throttle and spark											
*Horsepower (O.B.C.-certified)	9-1/2 hp at 4500 rpm	Gear shift control	Forward, neutral, & reverse											
Full throttle operating range	4000 to 5000 rpm	Weight	Model 9R69 - 60 lbs Model 9RL69 - 61 lbs (without fuel tank) (fuel tank weight 11 pounds net)											
Tank test with test wheel	4400 rpm	Fuel capacity	6 gallons, suction type tank											
Engine type	2 cylinder, 2 cycle alternate firing	Starter	Manual - self rewind											
Bore and stroke	2-5/16" bore x 1-13/16" stroke	Ignition	Flywheel magneto											
Piston displacement	15.2 cubic inches	Spark plug	AC-M42K, Champion J4J, Auto-Lite A21X - 14mm											
Piston ring sets (3 per set)		Spark plug gap	.030 inch											
standard	Part No. 379360	Spark plug torque	17-1/2 - 20-1/2 foot-pounds											
.020" oversize	Part No. 379373	Breaker point gap	.020 inch											
.040" oversize	Part No. 379371	Condenser Capacity	Part Number 580321 .18 - .22 mfd.											
Diameter of ring	2.3125" (standard)	Part No. 580416 Coil Test Specifications												
Width of ring	.0935" - .0925"	Old Stevens Tester												
Lbs. compression recommended when compressed	3 to 5 lbs.	<table border="1"> <thead> <tr> <th>Switch</th> <th>Index Reading</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>2.0 - 2.5</td> </tr> </tbody> </table>			Switch	Index Reading	A	2.0 - 2.5						
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Piston less rings standard	Part No. 379134	New Stevens Tester Model No. M.A.-75												
.020" oversize	Part No. 379372	<table border="1"> <thead> <tr> <th>Switch</th> <th>Index Adjustment</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>24</td> </tr> </tbody> </table>			Switch	Index Adjustment	A	24						
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.040" oversize	Part No. 379369	Merc-O-Tronic												
Crankshaft size top journal	.8125" - .8120"	<table border="1"> <thead> <tr> <th>Operating Amperage</th> <th>Primary Resistance Min. - Max.</th> <th>Secondary Continuity Min. - Max.</th> </tr> </thead> <tbody> <tr> <td>1.7</td> <td>.4 - .6</td> <td>30 - 40</td> </tr> </tbody> </table>			Operating Amperage	Primary Resistance Min. - Max.	Secondary Continuity Min. - Max.	1.7	.4 - .6	30 - 40				
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1.7	.4 - .6	30 - 40												
center journal	.8132" - .8127"	Graham Tester Model 51												
bottom journal	.8125" - .8120"	<table border="1"> <thead> <tr> <th>Maximum Secondary</th> <th>Maximum Primary</th> <th>Coil Index</th> <th>Minimum Coil Test</th> <th>Gap Index</th> </tr> </thead> <tbody> <tr> <td>4000</td> <td>1.2</td> <td>75</td> <td>33</td> <td>75</td> </tr> </tbody> </table>			Maximum Secondary	Maximum Primary	Coil Index	Minimum Coil Test	Gap Index	4000	1.2	75	33	75
Maximum Secondary	Maximum Primary	Coil Index	Minimum Coil Test	Gap Index										
4000	1.2	75	33	75										
Connecting rod crank pin	.8132" - .8127"													
Cooling system	Vari-Volume (combination positive displacement & centrifugal pump) thermostatically controlled													
Carburetion	Float feed, low-speed adjustment and manual choke													
Float level setting	Parallel with face of casting													
Carburetor orifice plug	Hole size - .048". Use a #56 drill as gage.													
Inlet needle seat	.053" - .050". Use a #55 drill as gage.													
Propeller gear ratio	13:23													
Propeller drive pin	Part No. 307949 3/16" x 1-25/64" stainless steel													
Propeller	3 Blade, 8-1/8" dia. x 8" Pitch													

*Horsepower established at sea level. Allow 2% reduction per 1000' above sea level.