

SPECIFICATIONS

Model Numbers	40802 (Big Twin, standard length) 40803 (Big Twin, 5" longer) 40852 (Big Twin Electric, standard length) 40853 (Big Twin Electric, 5" longer) 40872 (Lark; standard length) 40873 (Lark; 5" longer)	Propeller gear ratio	12.21																			
*Horsepower (O.B.C.-certified)	40 hp at 4500 rpm	Propeller drive pin	Part No. 304575, 1/4" x 1-15/32" stainless steel																			
Full throttle operating range	4000 to 5000 rpm	Propeller	10-1/2" diameter x 12" pitch, 3-blade																			
Tank test with test wheel	4300 rpm	Alternate propellers	10-3/8" x 11-1/2" pitch 10-3/8" x 14" pitch																			
Engine type	2 cylinder, 2 cycle, alternate firing	Speed control	Big Twin - Rope Only Knob on steering bracket or remote control Big Twin Electric and Lark - Remote control Synchronized throttle and spark																			
Bore and stroke	3-3/16" bore x 2-3/4" stroke	Gear shift control	Forward, neutral, reverse - Lark - Selectric push-button remote control																			
Piston displacement	43.9 cubic inches	Weight (without fuel tank)	Model 40802 - 132 lbs. Model 40803 - 138 lbs. Model 40852 - 143 lbs. Model 40853 - 149 lbs. Model 40872 - 154 lbs. Model 40873 - 159 lbs. (Fuel tank weight 11 lbs. net)																			
Piston ring sets (3 per set) standard	Part Number 380108	Fuel capacity	6 gallons, suction type tank																			
.025" oversize	Part Number 380109	Starter	Big Twin - Simplex self-rewinding Big Twin Electric and Lark - Electric																			
Diameter of ring	3.1875 in. (standard)	Starter amp draw when cranking	120 amperes maximum																			
Width of ring	.0935 - .0925 in.	Ignition	Flywheel magneto																			
Lbs. Compression recommended when compressed	7 to 10.4 lbs.	Spark plug	AC-M42K, Champion J4J, Auto-Lite A21X - 14mm																			
Piston less rings standard	Part Number 380567	Spark plug gap	.030 inch																			
.025" oversize	Part Number 381005	Spark plug torque	17-1/2 - 20-1/2 foot-pounds																			
Crankshaft size top journal	1.2500 - 1.2495 in.	Breaker point gap	.020 inch																			
center journal	1.000 - .9995 in.	Condenser Capacity	Part No. 580422 .25 - .29 mfd.																			
bottom journal	1.000 - 9.995 in.	Part No. 580416 Coil Test Specifications Old Stevens Tester																				
Connecting rod crank pin	1.1828 - 1.1823 in.	<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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Carburetion	Float feed with low-speed adjustment. Spring-loaded choke (Big Twin) or automatic choke and manual lever (Big Twin Electric and Lark)	<table border="1"> <thead> <tr> <th colspan="2">New Stevens Tester Model No. M.A. - 75</th> </tr> <tr> <th>Switch</th> <th>Index Adjustment</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>24</td> </tr> </tbody> </table>		New Stevens Tester Model No. M.A. - 75		Switch	Index Adjustment	A	24													
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Float level setting	Remove float bowl, turn it upside down so weight of float closes needle; float should now be even with rim of casting.	<table border="1"> <thead> <tr> <th colspan="5">Merc-O-Tronic</th> </tr> <tr> <th rowspan="2">Operating Amperage</th> <th colspan="2">Primary Resistance</th> <th colspan="2">Secondary Continuity</th> </tr> <tr> <th>Min.</th> <th>Max.</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>1.6</td> <td>.45</td> <td>.55</td> <td>30</td> <td>45</td> </tr> </tbody> </table>		Merc-O-Tronic					Operating Amperage	Primary Resistance		Secondary Continuity		Min.	Max.	Min.	Max.	1.6	.45	.55	30	45
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Operating Amperage	Primary Resistance		Secondary Continuity																			
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Carburetor orifice plug	Hole size .064"	<table border="1"> <thead> <tr> <th colspan="5">Graham Tester Model 51</th> </tr> <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>		Graham Tester Model 51					Maximum Secondary	Maximum Primary	Coil Index	Minimum Coil Test	Gap Index	4000	1.2	75	33	75				
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Maximum Secondary	Maximum Primary	Coil Index	Minimum Coil Test	Gap Index																		
4000	1.2	75	33	75																		
Inlet needle seat	.065 - .062 Use a #52 drill as gage.																					
Cooling system	Thermostatically controlled recirculating system																					

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