

# SPECIFICATIONS

Model	3802 (Lightwin, folding, standard length) 3803 (Lightwin, folding, 5" longer) 3806 (Lightwin, rigid, standard length) 3807 (Lightwin, rigid, 5" longer) 3832 (Yachtwin, folding, standard length) 3833 (Yachtwin, folding, 5" longer) 3836 (Yachtwin, rigid, standard length) 3837 (Yachtwin, rigid, 5" longer)	Propeller gear ratio	17:28 Lightwin 12:25 Yachtwin														
*Horsepower (O.B.C. - certified)	3 hp at 4000 rpm	Propeller drive pin	Part Number 203230 1/8" x 13/16" stainless steel														
Full throttle op.-range	3500 to 4500 rpm	Propeller	Yachtwins - Standard - 8" diameter x 5-1/2" pitch, 3 blade Optional - 8" x 4-1/2", 3 blade Lightwins - 6-1/8" diameter x 6-1/4" pitch, 2 blades														
Test tank rpm with test wheel	3850 rpm	Speed control	Single lever, synchronized throttle and spark														
Engine type	2-cylinder, 2 cycle alternate firing	Weight	Model 3802 - 35 lbs. Model 3803 - 36-1/2 lbs. Model 3806 - 33 lbs. Model 3807 - 33-1/2 lbs. Model 3832 - 35-1/2 lbs. Model 3833 - 37 lbs. Model 3836 - 33-1/2 lbs. Model 3837 - 34 lbs.														
Bore and stroke	1-9/16" bore x 1-3/8" stroke	Hi Lift vacuum fuel system	3 gal. tank and plug in hose														
Piston displacement	5.28 cubic inches	Fuel capacity	3 gallons														
Piston ring sets (2 per set) standard	Part Number 378412	Starter	Eas-A-Matic, self-rewinding														
.020" oversize	Part Number 378414	Ignition	Flywheel magneto														
Diameter of ring	1.563 in. (standard)	Spark plug	AC-M42K, Champion J4J, Auto-Lite A21X - 14mm														
Width of ring	.0935 - .0925 in.	Spark plug gap	.030 inch														
Lbs. compression recommended when compressed	2 to 3-1/2 lbs.	Spark plug torque	17-1/2 - 20-1/2 foot-pounds														
Piston less rings standard	Part Number 376991	Breaker point gap	.020 inch														
.020" oversize	Part Number 277283	Condenser Capacity	Part Number 580321 .18 to .22 Mfd.														
Crankshaft size top journal	.6854 - .6849 in.	<b>COIL SPECIFICATIONS</b>															
center journal	.6854 - .6849 in.	Part No. 580416 Coil Test Specifications:															
bottom journal	.6854 - .6849 in.	Old Stevens Tester															
Connecting rod crank pin	.6255 - .6250 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	Single barrel float feed, with high and low-speed adjustments manual choke	New Stevens Tester Model No. M.A.-75															
Float level setting	Flush with casting	<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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Inlet needle seat	.065 - .062 Use a #52 drill as gage.	Merc-O-Tronic															
Cooling system	Centri-matic (combination positive displacement and centrifugal pump).	<table border="1"> <thead> <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>1.7</td> <td>.4</td> <td>.6</td> <td>30</td> <td>40</td> </tr> </tbody> </table>		Operating Amperage	Primary Resistance		Secondary Continuity		Min.	Max.	Min.	Max.	1.7	.4	.6	30	40
Operating Amperage	Primary Resistance		Secondary Continuity														
	Min.	Max.	Min.	Max.													
1.7	.4	.6	30	40													
		Graham Tester Model 51															
		Maximum Secondary	Maximum Primary	Coil Index	Minimum Coil Test	Gap Index											
		4000	1.2	75	33	75											

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