

SPECIFICATIONS

<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Model</td> <td>4706, (Weedless gearcase) 4736, (Standard gearcase)</td> </tr> <tr> <td>*Horsepower (B.I.A. - certified)</td> <td>4 hp at 4500 rpm</td> </tr> <tr> <td>Full throttle operating range</td> <td>4000 to 5000 rpm</td> </tr> <tr> <td>Test tank rpm with test wheel</td> <td>4100 rpm Part No. 316021 for Weedless 4550 rpm Part No. 317738 for Standard</td> </tr> <tr> <td>Engine type</td> <td>2-cylinder, 2 cycle alternate firing</td> </tr> <tr> <td>Bore and stroke</td> <td>1-9/16" (39.69 mm) bore x 1-3/8" (34.93 mm) stroke</td> </tr> <tr> <td>Piston displacement</td> <td>5.28 (86 cm³) cubic inches</td> </tr> <tr> <td>Piston ring sets (2 per set) standard .030" oversize</td> <td>Part Number 383920 Part Number 384312</td> </tr> <tr> <td>Diameter of ring</td> <td>1.563 in. (39.70 mm) standard</td> </tr> <tr> <td>Width of ring</td> <td>.0625-.0615 in. (1.588 - 1.562 mm)</td> </tr> <tr> <td>Piston assembly standard .030" oversize</td> <td>Part Number 384651 Part Number 384666</td> </tr> <tr> <td>Crankshaft size top journal</td> <td>0.7520 - .7515 in. (19.101-19.088mm)</td> </tr> <tr> <td>center journal</td> <td>0.6854 - .6849 in. (17.409-17.396mm)</td> </tr> <tr> <td>bottom journal</td> <td>0.6854 - .6849 in. (17.41-17.396mm)</td> </tr> <tr> <td>Connecting rod crank pin</td> <td>0.6255 - .6250 in. (15.888 - 15.875mm)</td> </tr> <tr> <td>Carburetion</td> <td>Single barrel float feed, with high and low-speed adjust- ments manual choke</td> </tr> <tr> <td>Float level setting</td> <td>Flush with casting</td> </tr> <tr> <td>Inlet needle seat</td> <td>.053 - .050 (1.35 - 1.27mm) Use a #55 drill as gage.</td> </tr> <tr> <td>Cooling system</td> <td>Combination positive displacement and centrifugal pump.</td> </tr> <tr> <td>Propeller gear ratio</td> <td>17:28 Weedless 12:25 Standard</td> </tr> <tr> <td>Propeller drive pin</td> <td>Part Number 316558 1/8" x 1.234" stainless steel</td> </tr> <tr> <td>Propeller</td> <td>Standard - 7-1/2" dia x 6" pitch, 3 blade plastic</td> </tr> </table>	Model	4706, (Weedless gearcase) 4736, (Standard gearcase)	*Horsepower (B.I.A. - certified)	4 hp at 4500 rpm	Full throttle operating range	4000 to 5000 rpm	Test tank rpm with test wheel	4100 rpm Part No. 316021 for Weedless 4550 rpm Part No. 317738 for Standard	Engine type	2-cylinder, 2 cycle alternate firing	Bore and stroke	1-9/16" (39.69 mm) bore x 1-3/8" (34.93 mm) stroke	Piston displacement	5.28 (86 cm ³) cubic inches	Piston ring sets (2 per set) standard .030" oversize	Part Number 383920 Part Number 384312	Diameter of ring	1.563 in. (39.70 mm) standard	Width of ring	.0625-.0615 in. (1.588 - 1.562 mm)	Piston assembly standard .030" oversize	Part Number 384651 Part Number 384666	Crankshaft size top journal	0.7520 - .7515 in. (19.101-19.088mm)	center journal	0.6854 - .6849 in. (17.409-17.396mm)	bottom journal	0.6854 - .6849 in. (17.41-17.396mm)	Connecting rod crank pin	0.6255 - .6250 in. (15.888 - 15.875mm)	Carburetion	Single barrel float feed, with high and low-speed adjust- ments manual choke	Float level setting	Flush with casting	Inlet needle seat	.053 - .050 (1.35 - 1.27mm) Use a #55 drill as gage.	Cooling system	Combination positive displacement and centrifugal pump.	Propeller gear ratio	17:28 Weedless 12:25 Standard	Propeller drive pin	Part Number 316558 1/8" x 1.234" stainless steel	Propeller	Standard - 7-1/2" dia x 6" pitch, 3 blade plastic	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Propeller</td> <td>Weedless - 6-1/4" dia x 6" pitch, 2 blades plastic</td> </tr> <tr> <td>Speed control</td> <td>Single lever, synchronized throttle and spark</td> </tr> <tr> <td>Weight</td> <td>Weedless - 36.0 lbs. (16.3kg) Standard - 38.0 lbs. (17.2kg)</td> </tr> <tr> <td>Fuel tank capacity</td> <td>3 (11.4 liters) gallons</td> </tr> <tr> <td>Starter</td> <td>Automatic rewind - nylon rope</td> </tr> <tr> <td>Ignition</td> <td>Flywheel magneto, breaker- less C.D.</td> </tr> <tr> <td>Spark plug</td> <td>AC-M40FFX Champion L77J4, - 14 mm</td> </tr> <tr> <td>Spark plug gap</td> <td>.040 inch (1.0mm)</td> </tr> <tr> <td>Spark plug torque</td> <td>17-1/2 - 20-1/2 foot-pounds (24 - 27 N·m)</td> </tr> <tr> <td>Ignition Coil</td> <td>#1 Cylinder - Part No. 581686 #2 Cylinder - Part No. 581685</td> </tr> </table> <p style="text-align: center;">IGNITION COIL TEST SPECIFICATIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: center;">Stevens Model ST-75</td> </tr> <tr> <td style="text-align: center;">Reverse Polarity (Switch Setting CD)</td> <td colspan="2" style="text-align: center;">1.9</td> </tr> <tr> <td colspan="3" style="text-align: center;">Stevens Tester Model M.A.-75 or M.A.-80</td> </tr> <tr> <td style="text-align: center;"><u>Switch</u> **A</td> <td colspan="2" style="text-align: center;"><u>Index Adjustment</u> 20</td> </tr> <tr> <td colspan="3" style="text-align: center;">Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980</td> </tr> <tr> <td style="text-align: center;">Operating Amperage</td> <td style="text-align: center;">Primary Resistance</td> <td style="text-align: center;">**Secondary Continuity</td> </tr> <tr> <td style="text-align: center;">Min. - Max.</td> <td style="text-align: center;">Min. - Max.</td> <td style="text-align: center;">Min. - Max.</td> </tr> <tr> <td style="text-align: center;">1.9</td> <td style="text-align: center;">.1 Ohm</td> <td style="text-align: center;">8 - 20</td> </tr> <tr> <td colspan="3" style="text-align: center;">**Use Model CD-1 Adapter Red test clip to orange/black Black test clip to orange</td> </tr> <tr> <td colspan="3" style="text-align: center;">Graham Tester Model 51</td> </tr> <tr> <td colspan="2">Maximum Secondary ,</td> <td style="text-align: center;">3,000 ohms</td> </tr> <tr> <td colspan="2">Maximum Primary</td> <td style="text-align: center;">0.6 ohm</td> </tr> <tr> <td colspan="2">Coil Index</td> <td style="text-align: center;">50</td> </tr> <tr> <td colspan="2">Coil Test Minimum AMPLIFIED</td> <td style="text-align: center;">27 (With secondary circuit "open.") Hi tension lead disconnected</td> </tr> <tr> <td colspan="2">Gap Index</td> <td style="text-align: center;">50 (Coil must fire spark gap on tester at this setting.)</td> </tr> </table> <p style="text-align: center;">IGNITION COIL OHMMETER TEST</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Primary (Low Ohms)</td> <td style="text-align: center;">Secondary (High Ohms)</td> </tr> <tr> <td style="text-align: center;">0.1 ± 0.05</td> <td style="text-align: center;">1300 ± 200</td> </tr> </table>	Propeller	Weedless - 6-1/4" dia x 6" pitch, 2 blades plastic	Speed control	Single lever, synchronized throttle and spark	Weight	Weedless - 36.0 lbs. (16.3kg) Standard - 38.0 lbs. (17.2kg)	Fuel tank capacity	3 (11.4 liters) gallons	Starter	Automatic rewind - nylon rope	Ignition	Flywheel magneto, breaker- less C.D.	Spark plug	AC-M40FFX Champion L77J4, - 14 mm	Spark plug gap	.040 inch (1.0mm)	Spark plug torque	17-1/2 - 20-1/2 foot-pounds (24 - 27 N·m)	Ignition Coil	#1 Cylinder - Part No. 581686 #2 Cylinder - Part No. 581685	Stevens Model ST-75			Reverse Polarity (Switch Setting CD)	1.9		Stevens Tester Model M.A.-75 or M.A.-80			<u>Switch</u> **A	<u>Index Adjustment</u> 20		Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980			Operating Amperage	Primary Resistance	**Secondary Continuity	Min. - Max.	Min. - Max.	Min. - Max.	1.9	.1 Ohm	8 - 20	**Use Model CD-1 Adapter Red test clip to orange/black Black test clip to orange			Graham Tester Model 51			Maximum Secondary ,		3,000 ohms	Maximum Primary		0.6 ohm	Coil Index		50	Coil Test Minimum AMPLIFIED		27 (With secondary circuit "open.") Hi tension lead disconnected	Gap Index		50 (Coil must fire spark gap on tester at this setting.)	Primary (Low Ohms)	Secondary (High Ohms)	0.1 ± 0.05	1300 ± 200
Model	4706, (Weedless gearcase) 4736, (Standard gearcase)																																																																																																																	
*Horsepower (B.I.A. - certified)	4 hp at 4500 rpm																																																																																																																	
Full throttle operating range	4000 to 5000 rpm																																																																																																																	
Test tank rpm with test wheel	4100 rpm Part No. 316021 for Weedless 4550 rpm Part No. 317738 for Standard																																																																																																																	
Engine type	2-cylinder, 2 cycle alternate firing																																																																																																																	
Bore and stroke	1-9/16" (39.69 mm) bore x 1-3/8" (34.93 mm) stroke																																																																																																																	
Piston displacement	5.28 (86 cm ³) cubic inches																																																																																																																	
Piston ring sets (2 per set) standard .030" oversize	Part Number 383920 Part Number 384312																																																																																																																	
Diameter of ring	1.563 in. (39.70 mm) standard																																																																																																																	
Width of ring	.0625-.0615 in. (1.588 - 1.562 mm)																																																																																																																	
Piston assembly standard .030" oversize	Part Number 384651 Part Number 384666																																																																																																																	
Crankshaft size top journal	0.7520 - .7515 in. (19.101-19.088mm)																																																																																																																	
center journal	0.6854 - .6849 in. (17.409-17.396mm)																																																																																																																	
bottom journal	0.6854 - .6849 in. (17.41-17.396mm)																																																																																																																	
Connecting rod crank pin	0.6255 - .6250 in. (15.888 - 15.875mm)																																																																																																																	
Carburetion	Single barrel float feed, with high and low-speed adjust- ments manual choke																																																																																																																	
Float level setting	Flush with casting																																																																																																																	
Inlet needle seat	.053 - .050 (1.35 - 1.27mm) Use a #55 drill as gage.																																																																																																																	
Cooling system	Combination positive displacement and centrifugal pump.																																																																																																																	
Propeller gear ratio	17:28 Weedless 12:25 Standard																																																																																																																	
Propeller drive pin	Part Number 316558 1/8" x 1.234" stainless steel																																																																																																																	
Propeller	Standard - 7-1/2" dia x 6" pitch, 3 blade plastic																																																																																																																	
Propeller	Weedless - 6-1/4" dia x 6" pitch, 2 blades plastic																																																																																																																	
Speed control	Single lever, synchronized throttle and spark																																																																																																																	
Weight	Weedless - 36.0 lbs. (16.3kg) Standard - 38.0 lbs. (17.2kg)																																																																																																																	
Fuel tank capacity	3 (11.4 liters) gallons																																																																																																																	
Starter	Automatic rewind - nylon rope																																																																																																																	
Ignition	Flywheel magneto, breaker- less C.D.																																																																																																																	
Spark plug	AC-M40FFX Champion L77J4, - 14 mm																																																																																																																	
Spark plug gap	.040 inch (1.0mm)																																																																																																																	
Spark plug torque	17-1/2 - 20-1/2 foot-pounds (24 - 27 N·m)																																																																																																																	
Ignition Coil	#1 Cylinder - Part No. 581686 #2 Cylinder - Part No. 581685																																																																																																																	
Stevens Model ST-75																																																																																																																		
Reverse Polarity (Switch Setting CD)	1.9																																																																																																																	
Stevens Tester Model M.A.-75 or M.A.-80																																																																																																																		
<u>Switch</u> **A	<u>Index Adjustment</u> 20																																																																																																																	
Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980																																																																																																																		
Operating Amperage	Primary Resistance	**Secondary Continuity																																																																																																																
Min. - Max.	Min. - Max.	Min. - Max.																																																																																																																
1.9	.1 Ohm	8 - 20																																																																																																																
**Use Model CD-1 Adapter Red test clip to orange/black Black test clip to orange																																																																																																																		
Graham Tester Model 51																																																																																																																		
Maximum Secondary ,		3,000 ohms																																																																																																																
Maximum Primary		0.6 ohm																																																																																																																
Coil Index		50																																																																																																																
Coil Test Minimum AMPLIFIED		27 (With secondary circuit "open.") Hi tension lead disconnected																																																																																																																
Gap Index		50 (Coil must fire spark gap on tester at this setting.)																																																																																																																
Primary (Low Ohms)	Secondary (High Ohms)																																																																																																																	
0.1 ± 0.05	1300 ± 200																																																																																																																	

*Horsepower established at sea level. Allow 2% reduction per 1000' (300 meters) above sea level.