



Service Manual Outline

Section 1 - Important Information

- A - Specifications
- B - Maintenance
- C - General Information
- D - Outboard Motor Installation

Section 2 - Electrical

- A - Ignition
- B - Charging & Starting System
- C - Timing, Synchronizing & Adjusting

Section 3 - Electronic Fuel Injection

- A - Theory of Operation
- B - Diagnostics and Troubleshooting
- C - Service Procedures
- D - Emissions

Section 4 - Powerhead

- A - Cylinder Head
- B - Cylinder Block/Crankcase
- C - Lubrication

Section 5 - Mid-Section

- A - Clamp/Swivel Brackets & Drive Shaft Housing
- B - Power Trim
- C - Manual Tilt Assist

Section 6 - Lower Unit

- A - Non-Bigfoot Gear Housing
- B - Bigfoot Gear Housing

Section 7 - Attachments/Control Linkage


- A - Throttle/Shift Linkage
- B - Tiller Handle

Section 8 - Color Diagrams

Important Information	1
Electrical	2
Electronic Fuel Injection	3
Powerhead	4
Mid-Section	5
Lower Unit	6
Attachments/ Control Linkage	7
Color Diagrams	8



Notice

Throughout this publication, “Dangers”, “Warnings” and “Cautions” (accompanied by the International HAZARD Symbol ) are used to alert the mechanic to special instructions concerning a particular service or operation that may be hazardous if performed incorrectly or carelessly. **OBSERVE THEM CAREFULLY!**

These “Safety Alerts” alone cannot eliminate the hazards that they signal. Strict compliance to these special instructions when performing the service, plus “Common Sense” operation, are major accident prevention measures.

DANGER

DANGER - Immediate hazards which WILL result in severe personal injury or death.

WARNING

WARNING - Hazards or unsafe practices which COULD result in severe personal injury or death.

CAUTION

Hazards or unsafe practices which could result in minor personal injury or product or property damage.

Notice to Users of This Manual

This service manual has been written and published by the Service Department of Mercury Marine to aid our dealers’ mechanics and company service personnel when servicing the products described herein.

It is assumed that these personnel are familiar with the servicing procedures of these products, or like or similar products manufactured and marketed by Mercury Marine, that they have been trained in the recommended servicing procedures of these products which includes the use of mechanics’ common hand tools and the special Mercury Marine or recommended tools from other suppliers.

We could not possibly know of and advise the service trade of all conceivable procedures by which a service might be performed and of the possible hazards and/or results of each method. We have not undertaken any such wide evaluation. Therefore, anyone who uses a service procedure and/or tool, which is not recommended by the manufacturer, first must completely satisfy himself that neither his nor the products safety will be endangered by the service procedure selected.

All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of publication. As required, revisions to this manual will be sent to all dealers contracted by us to sell and/or service these products.

It should be kept in mind, while working on the product, that the electrical system and ignition system are capable of violent and damaging short circuits or severe electrical shocks. When performing any work where electrical terminals could possibly be grounded or touched by the mechanic, the battery cables should be disconnected at the battery.

Any time the intake or exhaust openings are exposed during service they should be covered to protect against accidental entrance of foreign material which could enter the cylinders and cause extensive internal damage when the engine is started.



It is important to note, during any maintenance procedure replacement fasteners must have the same measurements and strength as those removed. Numbers on the heads of the metric bolts and on the surfaces of metric nuts indicate their strength. American bolts use radial lines for this purpose, while most American nuts do not have strength markings. Mismatched or incorrect fasteners can result in damage or malfunction, or possibly personal injury. Therefore, fasteners removed should be saved for reuse in the same locations whenever possible. Where the fasteners are not satisfactory for re-use, care should be taken to select a replacement that matches the original.

Cleanliness and Care of Outboard Motor

A marine power product is a combination of many machined, honed, polished and lapped surfaces with tolerances that are measured in the ten thousands of an inch/mm. When any product component is serviced, care and cleanliness are important. Throughout this manual, it should be understood that proper cleaning, and protection of machined surfaces and friction areas is a part of the repair procedure. This is considered standard shop practice even if not specifically stated.

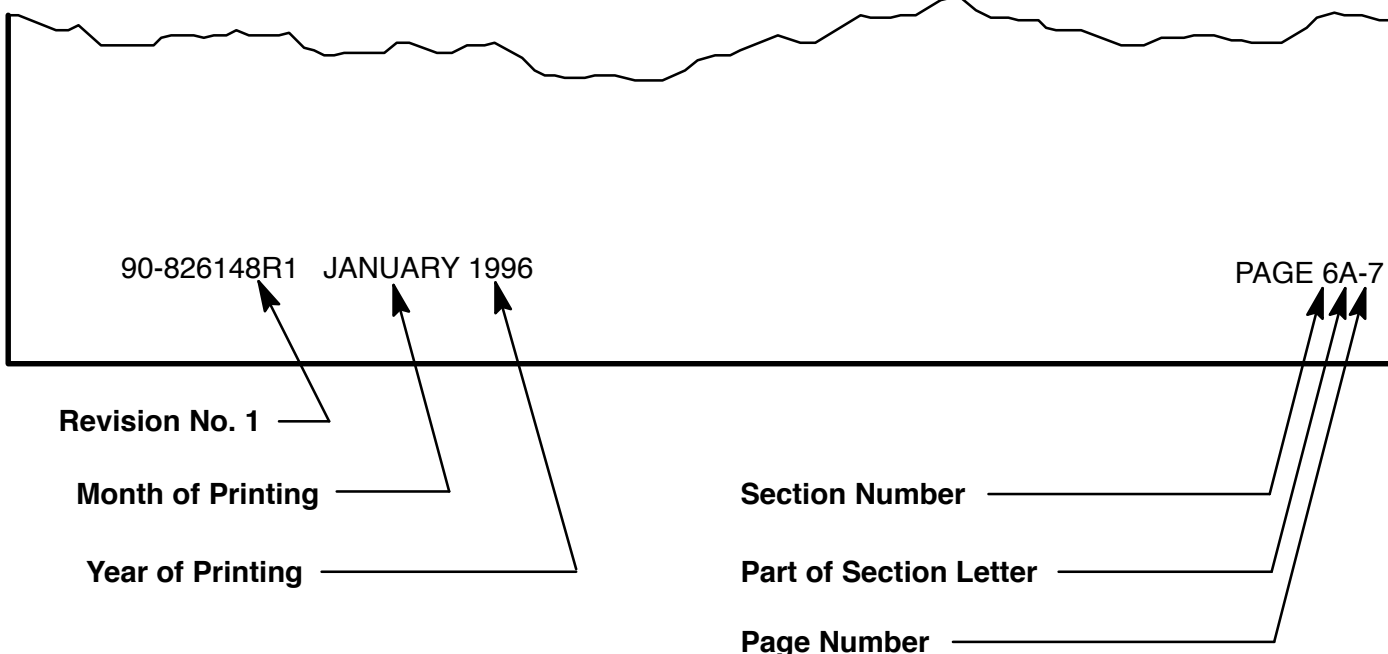
Whenever components are removed for service, they should be retained in order. At the time of installation, they should be installed in the same locations and with the same mating surfaces as when removed.

Personnel should not work on or under an outboard which is suspended. Outboards should be attached to work stands, or lowered to ground as soon as possible.

We reserve the right to make changes to this manual without prior notification.

Refer to dealer service bulletins for other pertinent information concerning the products described in this manual.

EXAMPLE:





IMPORTANT INFORMATION

Section 1A - Specifications

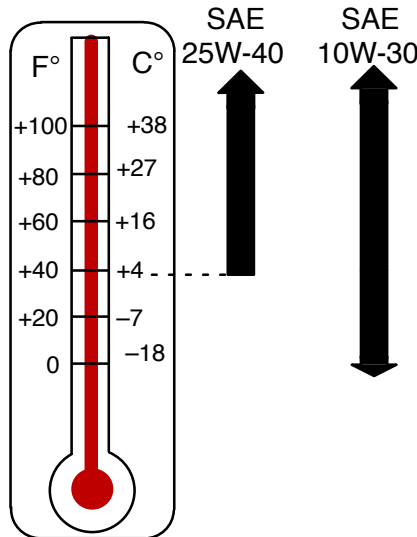
**1
A**

Table of Contents

Specifications	1A-1	Propeller Information Charts	1A-8
----------------------	------	------------------------------------	------

Specifications

Models 40/50/60 EFI (4-Stroke)		
HORSEPOWER (kW)	Model 40 Model 50 Model 60	40 hp (29.8 Kw) @ 5750 rpm 50 hp (37.7 Kw) @ 5750 rpm 60 hp (44.7 Kw) @ 5750 rpm
OUTBOARD WEIGHT	Electric 40/50/60 ELPT 40/50/60 ELPT BIGFOOT	248 lb (112.7 kg) 264 lb (119.9 kg)
FUEL	RECOMMENDED GASOLINE	Automotive Unleaded with a Minimum Pump Posted Octane Rating of 87
OIL	OIL FILTER OIL FILTER WRENCH ENGINE OIL CAPACITY ENGINE OIL	<p>p/n 35-822626A2 p/n 91-802653Q1 Either 3 Quarts or 3 Liters SAE 10W-30 viscosity oil is recommended for use in all temperatures. SAE 25W-40 viscosity oil may be used at temperatures above 40° F (4° C).</p> <p>Use Quicksilver 4-Cycle Marine Oil with the proper viscosity for the expected temperature in your area (see range thermometer on left). If not available, use a premium quality 4-cycle engine oil, certified to meet or exceed anyone of the following American Petroleum Institute (API) service classifications SH, SG, SF, CF-4, CE, CD, CDII.</p>



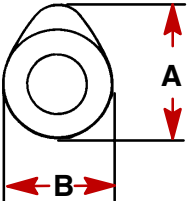
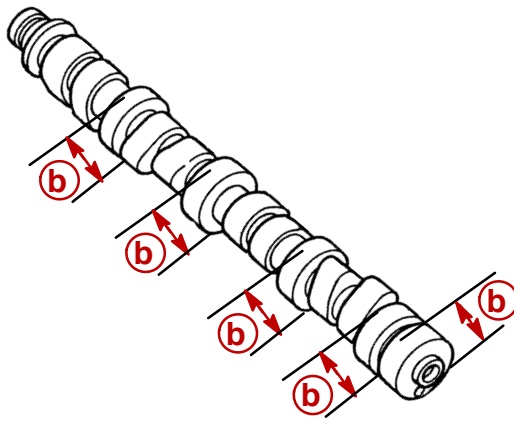
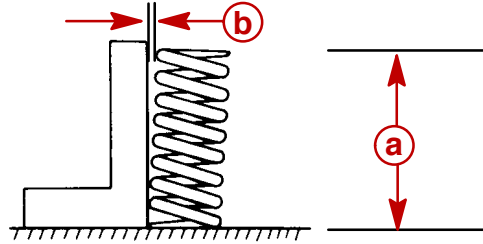


<p style="text-align: center;">IGNITION SYSTEM</p> <p>Readings taken @ 68°F (20°C).</p>	<p>Type Spark Plug: Type Gap Hex Size Torque Hole Size Firing Order Ignition Timing: @Idle @1500-1800 @ WOT (6000 rpm) Stator Resistance Crank Position Sensor (CPS) Resistance Ignition Coil Resistance: Internal Shielding Electronic Spark Trigger (EST) Secondary High Tension Lead/Boot Resistance ECM Engine Speed Limiter Fuel/Spark Cut-out on Cylinders #2 and #3 Fuel/Spark Cut-out on All Cylinders ECM Overheat Speed Control ECM Low Oil Pressure Speed Control MAT/ECT Temperature Sensor Manifold Absolute Pressure (MAP) Sensor Resistance Fuel Injector Resistance Main Power Relay Idle Air Control (IAC) Throttle Position Sensor Typical Range Output Voltage @Idle Output Voltage @WOT (6000)</p>	<p>Capacitor Discharge Ignition</p> <p>Champion RA8HC 0.040 in. (1.0 mm) 5/8 in. (16 mm) 150 lb-in. (17 Nm) 12 mm 1-3-4-2</p> <p>Controlled by ECM 14° B.T.D.C 28° B.T.D.C 0.20 - 0.30 Ω (YEL-YEL)</p> <p>300 - 350 Ω (RED - WHT)</p> <p>0 - 10.0 KΩ (Pin A - Mounting Bracket) 8.5 - 12KΩ (Pin B - Pin C) 3.0 - 7.0 kΩ (Pin A - Coil Tower)</p> <p>0.600 - 1.100 KΩ</p> <p>6225 rpm</p> <p>6350 rpm</p> <p>Guardian System is activated. Power limit will vary with level of overheat.</p> <p>Guardian System is activated. Engine power is limited to 10% of maximum (Approximately 2000 RPM) See Graph Section 3B - EFI</p> <p>See Table Section 3B - EFI 10.0 - 13.5Ω</p> <p>81-99 Ω (Pin 85 - Pin 86) 24-30 Ω (Between Pins)</p> <p>0.39-1.00 Volts 3.66-4.80 Volts</p>
<p style="text-align: center;">CHARGING SYSTEM</p> <p>Readings taken @ 68°F (20°C).</p>	<p>Alternator Type: 20 Amp. Electric Alternator Output</p> <p>Stator Resistance Quicksilver Tachometer Setting</p>	<p>Single Phase (12 Pole) 12.6 V-20 Amps. (252 Watts) (Rectified/Regulated) 0.20 - 0.30 Ohms (YEL-YEL) "6P" or "4"</p>
<p style="text-align: center;">STARTING SYSTEM</p>	<p>Electric Start: Starter Type Output Ampere Draw Under: (Load) (No Load)</p>	<p>Bendix 1.1 kW</p> <p>174.0 Amps 23.7 Amps</p>

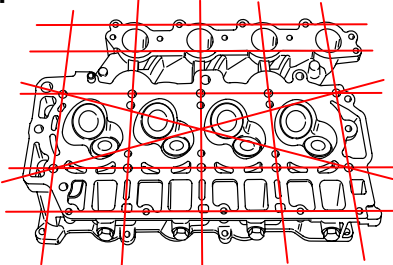
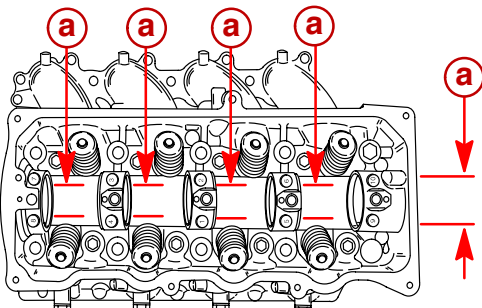
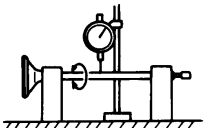


BATTERY	Battery Rating Minimum Requirement For operation below 32° F (0° C)	465 Marine Cranking Amps (MCA) or 350 Cold Cranking Amps (CCA) 1000 Marine Cranking Amps (MCA) or 775 Cold Cranking Amps (CCA)
	Ampere-Hours (Ah) Minimum For operation above 32° F (0° C) For operation below 32° F (0° C)	70 105
FUEL SYSTEM	Fuel Pump Type	Mechanical Water Cooled (Plunger/Diaphragm)
	Fuel Pump: Pressure Fuel Tank Capacity	3-6 psi Accessory
FUEL INJECTION	Fuel Injector System	Batch (1 & 4) - (2 & 3)
	Idle rpm (Out Of Gear) Idle rpm (In Forward Gear) Wide Open Throttle rpm (WOT) Range Fuel Pump Pressure - Electric	725 ± 25 rpm 725 ± 25 rpm 5500-6000 42-44 psi (290-303 kPa)
CYLINDER BLOCK	Type	4 Stroke Cycle – Over Head Camshaft
	Displacement Number of Cylinders	60.8 cu. in. (995 cc) 4
STROKE	Length	2.953 in. (75 mm)
CYLINDER BORE	Diameter Standard Oversize-0.010 in. (0.25 mm) Oversize-0.020 in. (0.50 mm)	2.5591 in. (65 mm) 2.5689 in. (65.25 mm) 2.5787 in. (65.5 mm)
	Taper/Out of Round Maximum Bore Type	0.003 in. (0.08 mm) Cast Iron
PISTON	Piston Type O.D. at Skirt Standard Oversize-0.010 in. (0.25 mm) Oversize-0.020 in. (0.50 mm)	Aluminum 2.5570 - 2.5578 in. (64.950 - 64.965 mm) 2.5669 - 2.5675 in. (65.2 - 65.215 mm) 2.5768 - 2.5774 in. (65.450 - 65.465 mm)
	PISTON CLEARANCE	Piston to Cylinder Clearance
RINGS	Ring End Gap (Installed) Top Middle Bottom (Oil Ring)	0.006 - 0.012 in. (0.15 - 0.03 mm) 0.012 - 0.020 in. (0.30 - 0.50 mm) 0.008 - 0.028 in. (0.20 - 0.70 mm)
	Side Clearance: Top Middle	0.0008 - 0.0024 in. (0.02 - 0.06 mm) 0.0008 - 0.0024 in. (0.02 - 0.06 mm)
COMPRESSION RATIO	Compression Ratio Cylinder Compression* (Electric Models Only, Cold Engine @ W.O.T.)	9.7:1 180 - 210 psi (Peak)
PISTON PIN	Piston Pin Diameter	0.6285 - 0.6287 in. (15.965 - 15.970 mm)
CONNECTING ROD	Oil Clearance (Big End)	0.0008 - 0.0020 in. (0.020 - 0.052 mm)
	Small End Inside Diameter	0.6293 - 0.6298 in. (15.985 - 15.998 mm)



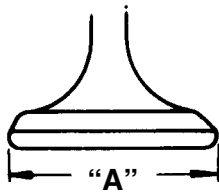
<p>CRANKSHAFT</p>	<p>Main Bearing Clearance Crankshaft Run-out</p>	<p>0.0005 - 0.0017 in. (0.012 - 0.044 mm) 0.0018 in. (0.046 mm)</p>
<p>CAMSHAFT</p>	<p>Camshaft Dimensions Intake "A" Exhaust "A" Intake "B" Exhaust "B"</p>  <p>Run-out Limit Camshaft Bearing Diameter "b"</p> 	<p>1.214 - 1.222 in. (30.83 - 31.03 mm) 1.214 - 1.222 in. (30.83 - 31.03 mm) 1.020 - 1.028 in. (25.90 - 26.10 mm) 1.020 - 1.028 in. (25.90 - 26.10 mm)</p> <p>0.0039 in. (0.1 mm) 1.4541 - 1.4549 in. (36.935 - 36.955 mm)</p>
<p>VALVE SPRING</p>	<p>Free Length "a" Tilt Limit "b"</p>  <p>Compressed Pressure (Installed) Intake Exhaust Tilt Limit (Intake & Exhaust) Dir. of Winding (Intake & Exhaust)</p>	<p>1.491-1.569 in. (37.85-39.85 mm) Less than 0.060 in. (1.7 mm)</p> <p>19.8 - 22.0 lbs. (9.0 - 10.0 kg) 19.8 - 22.0 lbs. (9.0 - 10.0 kg) 0.043 in. (1.1 mm) Left Hand</p>



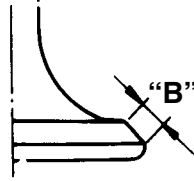
<p>CYLINDER HEAD</p>	<p>Warp Limit</p>  <p>* Lines indicate straight edge measurement</p> <p>Camshaft Bore Inside Diameter "a"</p> 	<p>0.004 in. (0.1 mm)</p> <p>1.4567 - 1.4577 in. (37.000 - 37.025 mm)</p>
<p>VALVES</p>	<p>Valve/Valve Seat/Valve Guides: Valve Clearance (cold) Intake Exhaust</p> <p>Valve Dimensions: "A" Head Diameter Intake Exhaust</p> <p>"B" Face Width Intake Exhaust</p> <p>"C" Seat Width Intake Exhaust</p> <p>"D" Margin Thickness Intake Exhaust</p> <p>Stem Outside Diameter Intake Exhaust</p> <p>Guide Inside Diameter Intake Exhaust</p> <p>Stem To Guide Clearance Intake Exhaust</p> <p>Stem Run-out Limit (max.)</p> 	<p>0.006 - 0.010 in. (0.15 - 0.25 mm) 0.010 - 0.014 in. (0.25 - 0.35 mm)</p> <p>1.256 - 1.264 in. (31.9 - 32.1 mm) 1.020 - 1.028 in. (25.9 - 26.1 mm)</p> <p>0.079 - 0.124 in. (2.00 - 3.14 mm) 0.079 - 0.124 in. (2.00 - 3.14 mm)</p> <p>0.035 - 0.043 in. (0.9 - 1.1 mm) 0.035 - 0.043 in. (0.9 - 1.1 mm)</p> <p>0.020 - 0.035 in. (0.5 - 0.9 mm) 0.020 - 0.035 in. (0.5 - 0.9 mm)</p> <p>0.2156 - 0.2161 in. (5.475 - 5.490 mm) 0.2150 - 0.2156 in. (5.460 - 5.475 mm)</p> <p>0.2165 - 0.2170 in. (5.500 - 5.512 mm) 0.2165 - 0.2170 in. (5.500 - 5.512 mm)</p> <p>0.0004 - 0.0015 in. (0.010 - 0.037 mm) 0.0010 - 0.0020 in. (0.025 - 0.052 mm) 0.0006 in. (0.016 mm)</p>



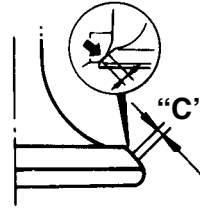
Valve Dimensions



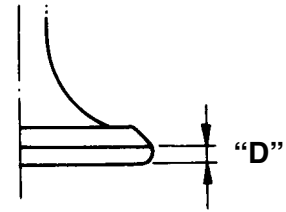
Head Diameter



Face Width



Seat Width



Margin Thickness

ROCKER SHAFT	Outside Diameter	0.6288 - 0.6296 in. (15.971 - 15.991 mm)
ROCKER ARM	Inside Diameter of Bore	0.6299 - 0.6306 in. (16.000 - 16.018 mm)
THERMOSTAT	Valve Opening Temperature Full Open Temperature	118° F - 123° F (48° C - 51° C) 145° F (63° C)
LUBRICATION SYSTEM	<p>Pump Type Engine Oil Pressure (Warm Engine) @ 3000 rpm Engine Oil Pan Capacity Oil Pump: Outer Rotor to Housing "a" Inner Rotor to Outer Rotor "b" Rotor to Housing "c"</p>	<p>Trochoid</p> <p>30-40 psi (207-278 kPa) Either 3 Qts. or 3 Liters</p> <p>0.0045 - 0.009 in. (0.11 - 0.23 mm) 0.005 in. (0.12 mm) 0.0015 - 0.003 in. (0.04 - 0.08 mm)</p>
MID-SECTION	<p>Transom Height: Long Shaft Steering Pivot Range: Tiller Remote Full Tilt Up Angle Allowable Transom Thickness</p>	<p>20 in. (51 cm)</p> <p>90° 60° 71° 2-3/4 in. (69.8 mm)</p>



<p>GEAR HOUSING (1.83:1)</p>	<p>Gear Ratio Gearcase Capacity Lubricant Type Forward Gear Number of Teeth Pinion Gear Number of Teeth Pinion Height</p> <p>Forward Gear Backlash</p> <p>Water Pressure (Warm Engine) @ 800 rpm @ 6000 rpm (WOT) Leak Test Pressure</p>	<p>1.83:1 11.5 fl oz (340 mL) Quicksilver Gear Lube-Premium Blend</p> <p>22 Spiral/Bevel</p> <p>12 Spiral/Bevel 0.025 in. (0.64 mm) Pinion Gear Locating Tool (91-817008A2) 0.011-0.017 in. (0.28-0.43 mm) Backlash Indicator Tool (91-19660--1) MARK #4 or 0.366 in. (9.3 mm)</p> <p>1–3 psi (7-21 kPa) 12–25 psi (83-172 kPa) 10-12 psi (68-83 kPa) for 5 Minutes</p>
<p>GEAR HOUSING BIGFOOT (2.3:1)</p>	<p>Gear Ratio Gearcase Capacity Lubricant Type Forward Gear Number of Teeth Pinion Gear Number of Teeth Pinion Height Pinion Gear Locating Tool Flat Number Disc Number Forward Gear Backlash Backlash Indicating Tool Mark Number Water Pressure @ 800 rpm (Idle) @ 6000 rpm (WOT) Leak Test Pressure</p>	<p>2.31:1 24 fl oz (710 mL) Quicksilver Gear Lube-Premium Blend</p> <p>30 Spiral/Bevel</p> <p>13 Spiral/Bevel 0.025 in. (0.64 mm) 91-12349A2 #8 #3 0.012-0.019 in. (0.30-0.48 mm) 91-78473 #4</p> <p>2-6 psi (14-41 kPa) 12-25 psi (83-172 kPa) 10-12 psi (69-83 kPa) for 5 Minutes</p>



Propeller Information Charts

Mercury/Mariner 40 EFI (4-Stroke) 1.83:1 Non-Bigfoot

Wide Open Throttle RPM : 5500-6000

Recommended Transom Heights : 20", 22.5"

Right Hand Rotation Standard

Gear Reduction : 1.83:1

Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Wgt. (lbs)	Approx. Boat Length	Speed Range (mph)	Propeller Part Number
10"	17"	3	Alum	Up to 800	Up to 15'	43-50	48-73144A40
10"	16"	3	Steel	800-1000	Up to 15'	39-46	48-91818A5
10"	16"	3	Alum	800-1000	Up to 15'	39-46	48-73142A40
10-1/8"	15"	3	Steel	900-1200	13-15'	36-43	48-855862A5
10-1/8"	15"	3	Alum	900-1200	13-15'	36-43	48-73140A40
10-1/4"	14"	3	Steel	1000-1200	14-16'	33-39	48-855860A5
10-1/4"	14"	3	Alum	1000-1200	14-16'	33-39	48-73138A40
10-3/8"	13"	3	Steel	1100-1400	14-17'	30-35	48-855858A5
10-3/8"	13"	3	Alum	1100-1400	14-17'	30-35	48-73136A40
10-5/8"	12"	3	Steel	1300-1600	15-17'	27-32	48-855856A5
10-5/8"	12"	3	Alum	1300-1600	15-17'	27-32	48-73134A40
11-5/8"	10.5"	3	Steel	1500-1900	16-18'	24-29	48-823478A5
10-7/8"	11"	3	Alum	1500-1900	16-18'	24-29	48-85632A40
11-5/8"	10-1/2"	3	Alum	1600-2000	16' +	21-25	48-827312A10
11-1/4"	10"	3	Alum	1700-2200	17' +	19-24	48-73132A40
12-1/4"	9"	3	Steel	2000+	pontoon	17-21	48-97868A10
12-1/4"	9"	3	Alum	2000+	pontoon	17-21	48-87818A10
12-1/2"	8"	3	Alum	2500+	Pontoon/ houseboat	1-18	48-42738A10
12-1/2"	8" Cup	3	Alum		pontoon		48-42738A12



Mercury/Mariner 50 EFI (4-Stroke) 1.83:1 Non-Bigfoot

Wide Open Throttle RPM : 5500-6000

Recommended Transom Heights : 20", 22.5"

Right Hand Rotation Standard

Gear Reduction : 1.83:1

Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Wgt. (lbs)	Approx. Boat Length	Speed Range (mph)	Propeller Part Number
10"	19"	3	Alum	Up to 800	Up to 14'	49-58	48-73146A40
10"	17"	3	Alum	Up to 900	Up to 15'	43-50	48-73144A40
10"	16"	3	Steel	900-1300	Up to 15'	39-46	48-91818A5
10"	16"	3	Alum	900-1300	Up to 15'	39-46	48-73142A40
10-1/8"	15"	3	Steel	1000-1400	13-15'	36-43	48-855862A5
10-1/8"	15"	3	Alum	1000-1400	13-15'	36-43	48-73140A40
10-1/4"	14"	3	Steel	1100-1600	14-16'	33-39	48-855860A5
10-1/4"	14"	3	Alum	1100-1600	14-16'	33-39	48-73138A40
10-3/8"	13"	3	Steel	1300-1800	14-17'	30-35	48-855858A5
10-3/8"	13"	3	Alum	1300-1800	14-17'	30-35	48-73136A40
10-5/8"	12"	3	Steel	1400-2000	15-17'	27-32	48-855856A5
10-5/8"	12"	3	Alum	1400-2000	15-17'	27-32	48-73134A40
11-5/8"	11"	3	Steel	1700-2400	16-18'	24-29	48-823478A5
10-7/8"	11"	3	Alum	1700-2400	16-18'	24-29	48-85632A40
11-5/8"	10-1/2"	3	Alum	1900-2700	16' +	21-25	48-827312A10
11-1/4"	10"	3	Alum	2100-3000	17' +	19-24	48-73132A40
12-1/4"	9"	3	Steel	2500+	pontoon	17-21	48-97868A10
12-1/4"	9"	3	Alum	2500+	pontoon	17-21	48-87818A10
12-1/2"	8"	3	Alum	3000+	Pontoon/ houseboat	1-18	48-42738A10
12-1/2"	8" Cup	3	Alum		pontoon		48-42738A12



Mercury/Mariner 60 EFI (4-Stroke) 1.83:1 Non-Bigfoot

Wide Open Throttle RPM : 5500-6000

Recommended Transom Heights : 20", 22.5"

Right Hand Rotation Standard

Gear Reduction : 1.83:1

Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Wgt. (lbs)	Approx. Boat Length	Speed Range (mph)	Propeller Part Number
10"	19"	3	Alum	Up to 1000	Up to 14'	49-58	48-73146A40
10"	17"	3	Alum	Up to 1200	Up to 15'	43-50	48-73144A40
10"	16"	3	Steel	1200-1600	Up to 16'	39-46	48-91818A5
10"	16"	3	Alum	1200-1600	Up to 16'	39-42	48-73142A40
10-1/8"	15"	3	Steel	1300-1700	14-16'	36-43	48-855862A5
10-1/8"	15"	3	Alum	1300-1700	14-16'	36-43	48-73140A40
10-1/4"	14"	3	Steel	1400-2000	15-17'	33-39	48-855860A5
10-1/4"	14"	3	Alum	1400-2000	15-17'	33-39	48-73138A40
10-3/8"	13"	3	Steel	1600-2200	15-18'	30-35	48-855858A5
10-3/8"	13"	3	Alum	1600-2200	15-18'	30-35	48-73136A40
10-5/8"	12"	3	Steel	1800-2500	16-18'	27-32	48-855856A5
10-5/8"	12"	3	Alum	1800-2500	16-18'	27-32	48-73134A40
11-5/8"	11"	3	Steel	2300-3000	17-19'	24-29	48-823478A5
10-7/8"	11"	3	Alum	2300-3000	17-19'	24-29	48-85632A40
11-5/8"	10-1/2"	3	Alum	2500-3300	17' +	21-25	48-827312A10
11-1/4"	10"	3	Alum	2800-3600	18' +	19-24	48-73132A40
12-1/4"	9"	3	Steel	3300+	pontoon	17-21	48-97868A10
12-1/4"	9"	3	Alum	3300+	pontoon	17-21	48-87818A10
12-1/2"	8"	3	Alum	4000+	Pontoon/ houseboat	1-18	48-42738A10
12-1/2"	8" Cup	3	Alum		pontoon		48-42738A12



Mercury/Mariner 40 EFI (4-Stroke) 2.3:1 Bigfoot

Special soft rubber hub propellers designed to reduce clutch rattle

Wide Open Throttle rpm: 5500-6000

Recommended Transom Heights : 20", 25"

Right Hand Rotation Standard

Gear Reduction : 2.31:1

IMPORTANT: These specially designed rubber hub propellers are rated for 60 horsepower MAXIMUM.

Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Wgt. (lbs)	Approx. Boat Length	Speed Range (mph)	Propeller Part Number
13-3/4"	15"	3	Alum	1200-1500	14-16'	27-32	48-77342A33
14"	13"	3	Alum	1500-2000	16-18'	22-27	48-77340A33
14"	11"	3	Alum	2000-3000	pontoon	17-21	48-77338A33
14"	10"	3	Alum	2500+	pontoon/work	14-19	48-854342A33
14"	9"	3	Alum	3500+	houseboat/ work	1-15	48-854340A33

Mercury/Mariner 50 EFI (4-Stroke) 2.3:1 Bigfoot

Special soft rubber hub propellers designed to reduce clutch rattle

Wide Open Throttle rpm: 5500-6000

Recommended Transom Heights : 20", 25"

Right Hand Rotation Standard

Gear Reduction : 2.31:1

IMPORTANT: These specially designed rubber hub propellers are rated for 60 horsepower MAXIMUM.

Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Wgt. (lbs)	Approx. Boat Length	Speed Range (mph)	Propeller Part Number
13-3/4"	15"	3	Alum	1500-2000	14-16'	25-32	48-77342A33
14"	13"	3	Alum	1800-2600	16-18'	23-27	48-77340A33
14"	11"	3	Alum	2800-4000	pontoon	17-21	48-77338A33
14"	10"	3	Alum	3000+	pontoon/work	14-19	48-854342A33
14"	9"	3	Alum	5000+	houseboat/ work	1-16	48-854340A33



Mercury/Mariner 60 EFI (4-Stroke) 2.3:1 Bigfoot

Special soft rubber hub propellers designed to reduce clutch rattle

Wide Open Throttle rpm: 5500-6000

Recommended Transom Heights : 20", 25"

Right Hand Rotation Standard

Gear Reduction : 2.31:1

IMPORTANT: These specially designed rubber hub propellers are rated for 60 horse-power **MAXIMUM**.

Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Wgt. (lbs)	Approx. Boat Length	Speed Range (mph)	Propeller Part Number
13-3/4"	15"	3	Alum	2000-2500	16-18'	25-32	48-77342A33
14"	13"	3	Alum	2300-3200	17-20'	23-27	48-77340A33
14"	11"	3	Alum	3000-4300	pontoon	17-21	48-77338A33
14"	10"	3	Alum	3500+	pontoon/work	14-19	48-854342A33
14"	9"	3	Alum	5500+	houseboat/ work	1-16	48-854340A33