

Service Manual Outline	Important Information	4
Section 1 - Important Information		
A - Specification		
B - Maintenance		
C - General Information	Electrical	
D - Outboard Motor Installation		
Section 2 - Electrical		
A - Ignition	Fuel Cyatam	
B - Charging & Starting System	Fuel System	<b>.</b>
C - Timing, Synchronizing & Adjusting		
D - Wiring Diagrams		
Section 3 - Fuel System	Powerhead	
A - Fuel Pump	. owernedd	
B - Carburetor		
C - Emissions		
Section 4 - Powerhead	Mid-Section	5
A - Cylinder Head		
B - Cylinder Block/Crankcase		
C - Oil Pump		
Section 5 - Mid-Section	Lower Unit	
A - Clamp/Swivel Bracket & Driveshaft Housing		
B - Power Trim		
Section 6 - Lower Unit	Attachments/	7
A - Gear Housing (Non-Bigfoot)	Control Linkage	
B - Gear Housing (Bigfoot)		
Section 7 - Attachments/Control Linkage		
A - Throttle/Shift Linkage	Manual Starter	
B - Tiller Handle	manuai Startei	O

**Section 8 - Manual Starter** 



#### **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.

#### **A 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.

#### **A 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.

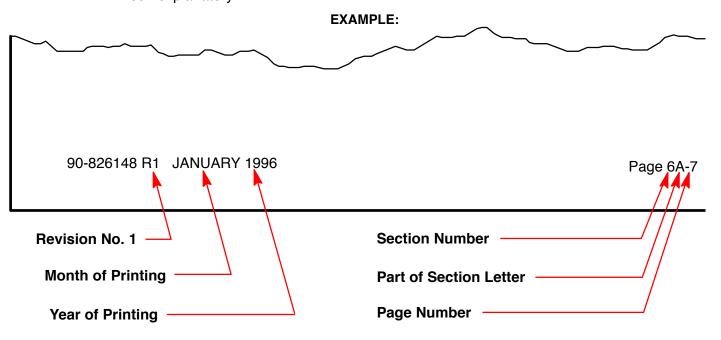
Personnel should not work on or under an outboard which is suspended. Outboards should be attached to work stands, or lowered to ground as soon as possible.

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.

## **Page Numbering**

Two number groups appear at the bottom of each page. The example below is self-explanatory.





#### IMPORTANT INFORMATION

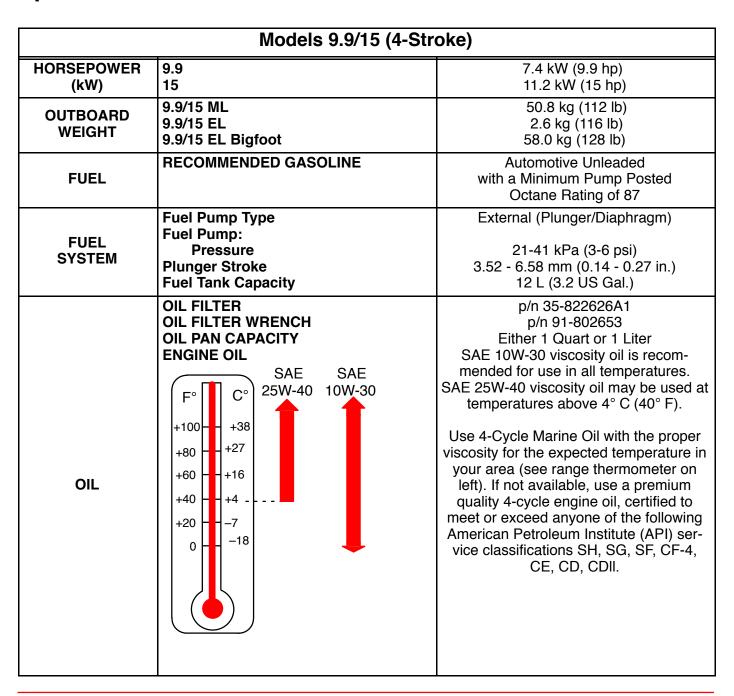
### **Section 1A - Specifications**



#### **Table of Contents**

Specifications	1A-1	Mercury/Mariner 15 (4 - Stroke)	
Propeller Information Charts	1A-8	Non-Bigfoot	1A-9
Mercury/Mariner 9.9 (4 - Stroke)		Mercury/Mariner 15 (4 - Stroke) Bigfoot .	1A-9
Non-Bigfoot	1A-8	Mercury/Quicksilver Lubricants and Sealants	1A-10
Mercury/Mariner 9.9 (4 - Stroke) Bigfoot .	1A-8		

## **Specifications**





	Туре	Capacitor Discharge Ignition
	Spark Plug	Capacitor Biodriargo Igrittori
	Type	NGK DPR6EA-9
	Gap	1.0 mm (0.035 in.)
	Hex	1.0 mm (0.003 m.)
		_
	Firing Order	1-2
	Ignition Timing:	
IGNITION	Below 800 rpm	5° B.T.D.C.
SYSTEM	@ 2800-3300 rpm	30° B.T.D.C.
Readings taken @	Charge Coil Resistance	270 - 410 $\Omega$ (Bown - Blue)
20°C (68°F).	Crank Position Sensor Resistance	230 - 350 $\Omega$ (Green/White - Black)
20 C (08 F).	Ignition Coil Resistance:	
	Primary	$0.16$ - $0.24~\Omega$
	Secondary (W/o Boots)	3.9 - $5.9$ k $Ω$
	ECM Engine Speed Limiter	
	Spark Cut-Out Reduction (Percent	
	ages of ignition spark are Cut-Out)	5850 rpm
	ECM Low Oil Pressure Speed Control	Approximately 2000 rpm
	Oil Pressure Switch	Below 17 kPa (2.5 psi) Continuity
		, , , ,
	Alternator Type	Single Phase (6 Pole)
	6 AMP Manual (Standard) Alternator:	
CHARGING	Output	12 Volts-6 Amps. (Rectified)
SYSTEM	Battery Charging Resistance	0.48 - 0.72 Ohms (Green-Green)
Readings taken @	10 AMP Electric (Standard) Alternator:	
20°C (68°F).	Output	12V-10 Amps. (Rectified/Regulated)
	Battery Charging Coil Resistance	0.24 - 0.36 Ohms (Green-Green)
	Quicksilver Tachometer Setting	"6C" or "2"
	Manual Start	Recoil Starter
	Electric Start:	riccon Starter
	Starter Type	Bendix
STARTING	Output	0.8 kW
SYSTEM	Ampere Draw Under:	O.O KVV
	(Load)	106.0 Amps
	(No Load)	21.1 Amps
	, ,	Z1.1 Allips
	Battery Rating	
	Minimum Requirement	465 Marine Cranking Amps (MCA)
BATTERY		or 350 Cold Cranking Amps (CCA)
	For operation below 0° C (32° F)	1000 Marine Cranking Amps (MCA) or
		775 Cold Cranking Amps (CCA)
	Idle rpm (Out Of Gear)	950 ± 50 rpm
	Idle rpm (In Forward Gear)	850 ± 50 rpm
	Wide Open Throttle rpm (WOT)	r ·-
	Standard Model Range	4500-5500
	Bodensee Model Range	5200-5700
	Standard Model	
CARBURETOR	Main Jet Size	
	9.9 hp	#68
	15 hp	#104
	Pilot Jet	#45
	Bodensee Model	
	Main Jet Size	
	9.9 hp	#68
	15 hp	#103
	Pilot Jet	#103 #45
	Float Height	15.5 ± 1.0 mm (0.61 ± 0.04 in.)



CYLINDER BLOCK	Type Displacement Number of Cylinders	4 Stroke Cycle – Over Head Camshaft 323 cc (19.7 cu. in.) 2
STROKE	Length	59 mm (2.323 in.)
CYLINDER BORE	Diameter Standard Oversize-0.25 mm (0.010 in.) Oversize-0.50 mm (0.020 in.) Taper/Out of Round Maximum Bore Type	59.00-59.02 mm (2.3228-2.3236 in.) 59.25-59.27 mm (2.3327-2.3335 in.) 59.50-59.52 mm (2.3425-2.3433 in.) 0.08 mm (0.003 in.) Cast Iron
PISTON	Piston Type O.D. at Skirt Standard Oversize-0.25mm (0.010 in.) Oversize-0.50mm (0.020 in.)	Aluminum  58.950 - 58.965 mm (2.3209 - 2.3214 in.) 59.200 - 59.215 mm (2.3307 - 2.3313 in.) 59.450 - 59.465 mm (2.3406 - 2.3411 in.)
PISTON CLEARANCE	Piston to Cylinder Clearance	0.035 - 0.065 mm (0.0014 - 0.0026 in.)
RINGS	Ring End Gap (Installed) Top Middle Bottom (Oil Ring) Side Clearance: Top Middle	0.15 - 0.30 mm (0.006 - 0.012 in.) 0.30 - 0.50 mm (0.012 - 0.020 in.) 0.20 - 0.70 mm (0.008 - 0.028 in.) 0.04 - 0.08 mm (0.0016 - 0.0032 in.) 0.03 - 0.07 mm (0.0012 - 0.0028 in.)
COMPRESSION RATIO	Compression Ratio Cylinder Compression (cold engine @ W.O.T.) Manual Models With Compression Release, S/N OT178500 and Above	9.3:1 185 - 190 psi (Peak) 40 lbs 60 lbs.
PISTON PIN	Piston Pin Diameter	13.996 - 14.000 mm (0.5510 - 0.5512 in.)
CONNECTING ROD	Oil Clearance (Big End) Small End Inside Diameter	0.021 - 0.045 mm (0.0008 - 0.0018 in.) 14.015 - 14.029 mm (0.5518 - 0.5523 in.)
CRANKSHAFT	Main Bearing Clearance Crankshaft Run-out	0.011 - 0.039 mm (0.0004 - 0.0015 in.) 0.02 mm (0.0008 in.)
TIMING BELT	Deflection	10 mm (0.39 in.)
CYLINDER HEAD	*Line s indicate straight edge measurement  Camshaft Bore Diameter	0.1 mm (0.004 in.)  A = 18.000 - 18.018 mm (0.7087 - 0.7094 in.)



	Free Length A Tilt Limit B	A = 34.4 mm (1.354 in.) B = Less than 1.1 mm (0.043 in.)
VALVE SPRING	B A	
	Compressed Pressure (Installed) Intake Exhaust Dir. of Winding (Intake & Exhaust)	10.5 - 11.5 kg (23.1 - 25.4 lb) 10.5 - 11.5 kg (23.1 - 25.4 lb) Right Hand
VALVE GUIDES	Valve Guide Inside Diameter	5.500 - 5.512 mm (0.2165 - 0.2170 in.)

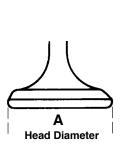


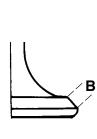
	Camshaft Dimensions	1999 Model Year and Newer
	Intake & Exhaust "a" Intake & Exhaust "b"	(Manual/Electric) 23.90 - 24.00 mm (0.941 - 0.945 in.) 19.95 - 20.05 mm (0.785 - 0.789 in.)
	Intake & Exhaust "a" Intake & Exhaust "b"	2001 Model Year and Newer (Manual only) 27.66 - 27.69 mm (1.089 - 1.090 in.) 23.96 - 24.02 mm (0.943 - 0.946 in.)
	Run-out Limit	0.03 mm (0.001 in.)
CAMCHAET	Camshaft Bearing Diameter	
CAMSHAFT	Cylinder Head Upper "b" Oil Pump Housing Lower "a"	15.97 -15.98 mm (0.628 - 0.629 in.) 17.97 - 17.99 mm (0.707 - 0.708 in.)
	a b	1999 Model Year and Newer (Manual/Electric)
	a	2001 Model Year and Newer (Manual Only)
	1999 and Newer	1999 and Newer     Manual/Electric A = 23.8 mm (0.937 in.) B = 32.0 mm (1.26 in) C = 16.000 - 16.0188 mm (0.6299 - 0.63066 in.)
Oil Pump	2001 and Newer	2001 and Newer Manual only A = 21.39 mm (0.842 in.) B = 34.98 mm (1.378 in.) C = 16.000 - 16.0188 mm (0.6299 - 0.63066 in.)

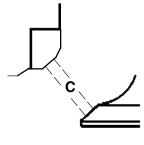


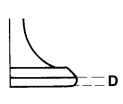
	Valve/Valve Seat/Valve Guides:	
	Valve Clearance (cold)	
	Intake	0.15 - 0.25 mm (0.006 - 0.010 in.)
	Exhaust	0.20 - 0.30 mm (0.008 - 0.012 in.)
	Valve Dimensions:	0.20 - 0.50 11111 (0.000 - 0.012 111.)
	"A" Head Diameter	
	Intake	27.9 - 28.1 mm (1.098 - 1.106 in.)
	Exhaust	21.9 - 22.1 mm (0.862 - 0.870 in.)
	"B" Face Width	
	Intake	2.00 - 3.14 mm (0.079 - 0.124 in.)
	Exhaust	2.00 - 3.14 mm (0.079 - 0.124 in. ()
	"C" Seat Width	(11111)
	Intake	0.6 - 0.8 mm (0.024 - 0.031 in.)
VALVES	Exhaust	0.6 - 0.8 mm (0.024 - 0.031 in.)
VALVES		0.0 - 0.0 11111 (0.024 - 0.001 111.)
	"D" Margin Thickness	0.5. 0.0 (0.000, 0.005 in.)
	Intake	0.5 - 0.9 mm (0.020 - 0.035 in.)
	Exhaust	0.5 - 0.9 mm (0.020 - 0.035 in.)
	Stem Outside Diameter	
	Intake	5.475 - 5.490 mm (0.2156 - 0.2161 in.)
	Exhaust	5.460 - 5.475 mm (0.2150 - 0.2156 in.)
	Guide Inside Diameter	, , , , , , , , , , , , , , , , , , ,
	Intake	5.500 - 5.512 mm (0.2165 - 0.2170 in.)
	Exhaust	5.500 - 5.512 mm (0.2165 - 0.2170 in.)
	Stem To Guide Clearance	0.000 0.012 (0.2100 0.2170)
	Intake	0.010 - 0.037 mm (0.0004 - 0.0015 in.)
	Exhaust	
		0.025 - 0.052 mm (0.0010 - 0.0020 in.
	Stem Run-out Limit (max.)	0.016 mm (0.0006 in.)











Face Width Seat Width

**Margin Thickness** 

ROCKER SHAFT	Outside Diameter	12.941 - 12.951 mm (0.5095 - 0.5099 in.)
ROCKER ARM	Inside Diameter of Bore	13.000 - 13.018 mm (0.5118 - 0.5125)
THERMOSTAT	Valve Opening Temperature Full Open Temperature Valve Lift (Minimum)	58° C - 62° C (136° F - 143° F) 70° C (158° F) 3 mm (0.12 in.)



	_	_
	Pump Type Engine Oil Pressure	Trochoid 207 - 279kPa (30-40 psi) at 3000 rpm (Warm Engine)
	Oil Pressure Switch Oil Pump:	Below 17 kPa (2.5 psi) Continuity
	Outer Rotor to Housing "a"	0.06 - 0.11 mm (0.0024 - 0.0043 in.)
	Inner Rotor to Outer Rotor "b"	0.02 - 0.15 mm (0.0008 - 0.0059 in.)
LUBRICATION	Rotor to Housing "c" Relief Valve Opening Pressure,	0.02 - 0.07 mm (0.008 - 0.003 in.) 3.88-4.50 Kg/cm <sup>2 (</sup> 55-64 psi)
SYSTEM	helier valve Opening Pressure	388-450 kPa
0 1 0 1 <u>2</u>	a C	Test Fitting p/n 22-883147 1/8 x 28 B/S
	Transom Height:	00 (45 in )
MID-SECTION	Short Shaft Long Shaft	38 cm (15 in.)
	Steering Pivot Range	51 cm (20 in.) 70°
	Tilt Pin Positions	5 + Shallow Water
	Full Tilt Up Angle	66°
	Allowable Transom Thickness	60.3 mm (2-3/8 in.)
	Gear Ratio	2.0:1
	Gearcase Capacity	200 mL (6.8 fl oz)
	Lubricant Type Forward Gear	Gear Lube-Premium Blend
	Number of Teeth	26 Spiral/Bevel
	Pinion Gear	20 001141/100001
GEAR HOUSING	Number of Teeth	13 Spiral/Bevel
NON-BIGFOOT	Pinion Height	Floating
(2.0:1)	Forward Gear Backlash	No Adjustment
	Reverse Gear Backlash	No Adjustment
	Water Pressure	
	@ Idle	3.44 - 10.34 kPa (0.5 – 1.5 psi) @ 950 rpm
	@ WOT	34.4 - 48.2 kPa (5-7 psi) @ 5000 rpm
	Gear Ratio	2.42:1
	Gearcase Capacity	230 mL (7.8 fl oz)
GEAR HOUSING BIGFOOT (2.42:1)	Lubricant Type	Gear Lube-Premium Blend
	Forward Gear Number of Teeth	29 Spiral/Bevel
	Pinion Gear	23 Οριιαι/Devel
	Number of Teeth	12 Spiral/Bevel
	Pinion Height	0.64 mm (0.025 in.)
	Forward Gear Backlash	No Adjustment
	Water Pressure (With Thermostat)	00.07518 //
	@ Idle	6.8 - 27.5 kPa (1 - 4 psi) @ 950 rpm
	@ WOT	41.3 - 62 kPa (6 - 9 psi) @ 5000 rpm



## **Propeller Information Charts**

#### Mercury/Mariner 9.9 (4 - Stroke) Non-Bigfoot

Wide Open Throttle rpm: 4500-5500 Recommended Transom Heights: 15", 20"

Right Hand Rotation Standard

Gear Reduction: 2:1

Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Wgt. (lbs)	Approx. Boat Length	Speed Range (mph)	Propeller Part Number
9"	10.5"	3	Alum	Up to 800	Up to 16'	17-24	48-828158A12
9"	9"	3	Alum	600-1000	15'-17'	13-19	48-828156A12 *
9"	8"	3	Alum	700-1200	16'-19'	10-16	48-828154A12
9.25"	7"	3	Alum	900-1600	16'-20'	8-14	48-828152A12
9.75"	6.5"	3	Alum	1000-1800	sailboat/work	7-12	48-828150A12
9.75"	6"	4	Alum	1400 +	pontoon/work	6-11	48-850204A12
9.75"	5.5"	3	Alum	1700 +	work	1-10	48-828148A12

## Mercury/Mariner 9.9 (4 - Stroke) Bigfoot

Wide Open Throttle rpm: 4500-5500

Recommended Transom Heights: 20", 25"

Right Hand Rotation Standard Gear Reduction: 2.42:1

Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Wgt. (lbs)	Approx. Boat Length	Speed Range (mph)	Propeller Part Number
10.25"	14.5"	3	Alum	Up to 700	Up to 15'	19-28	48-19642A40
10.38"	13"	3	Steel	500-900	13'-16'	17-25	48-19644A5
10.38"	13"	3	Alum	500-900	13'-16'	17-25	48-19640A40
10.38"	12"	3	Alum	600-1000	14'-17'	15-23	48-19639A40
10.38"	11"	3	Alum	700-1100	15'-18'	14-20	48-19638A40
10.38"	9.5"	3	Alum	1000 +	pontoon/work	1-16	48-19636A10 *

<sup>\*</sup> Indicates standard with engine



#### Mercury/Mariner 15 (4 - Stroke) Non-Bigfoot

Wide Open Throttle rpm: 4500-5500 Recommended Transom Heights: 15", 20"

Right Hand Rotation Standard

Gear Reduction: 2:1

Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Wgt. (lbs)	Approx. Boat Length	Speed Range (mph)	Propeller Part Number
9"	10.5"	3	Alum	Up to 900	Up to 15'	19-26	48-828158A12
9"	9"	3	Alum	800-1200	14'-16'	15-22	48-828156A12 *
9"	8"	3	Alum	900-1500	15'-17'	12-18	48-828154A12
9.25"	7"	3	Alum	1200-2000	15'-18'	10-15	48-828152A12
9.75"	6.5"	3	Alum	1300-2300	sailboat/work	9-14	48-828150A12
9.75"	6"	4	Alum	1500 +	pontoon/work	8-12	48-850204A12
9.75"	5.5"	3	Alum	1700 +	work	1-11	48-828148A12

## Mercury/Mariner 15 (4 - Stroke) Bigfoot

Wide Open Throttle rpm: 4500-5500 Recommended Transom Heights: 20", 25"

Right Hand Rotation Standard Gear Reduction: 2.42:1

Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Wgt. (lbs)	Approx. Boat Length	Speed Range (mph)	Propeller Part Number
10.25"	14.5"	3	Alum	Up to 900	Up to 16'	19-28	48-19642A40
10.38"	13"	3	Steel	600-1000	14'-17'	17-25	48-19644A5
10.38"	13"	3	Alum	600-1000	14'-17'	17-25	48-19640A40
10.38"	12"	3	Alum	700-1100	15'-18'	15-23	48-19639A40
10.38"	11"	3	Alum	800-1300	15'-19'	14-20	48-19638A40
10.38"	9.5"	3	Alum	1100 +	pontoon/work	1-16	48-19636A10 *

<sup>\*</sup> Indicates standard with engine.



# Mercury/Quicksilver Lubricants and Sealants

Tube Ref. #	Description	Container Size	Mercury Part Number	Quicksilver Part Number	
4 0	Needle Bearing Assy. Lubricant	8 oz (226.8 g) tube	92-802868A1	N/A	
6	Dielectric Grease	8 oz (226.8 g) can	92-823506-1	92-823506-1	
7 0	Loctite 271 – Thread Locker	10 ml tube	92-809819	92-809819	
9	Loctite 567 PST Pipe Sealant	50 ml tube	92-809822	92-809822	
12	Loctite Master Gasket Kit		92-12564-2	92-12564-2	
14	2 Cycle Premium Out- board Oil	1 US qt (0.94 L)	92-802813A1	92-802813Q1	
19	Perfect Seal	16 oz (0.45 kg) can	92-34227-1	92-34227-1	
25	Liquid Neoprene	8 oz (226.8 g) can	92-25711-3	92-25711-3	
27	Bellows Adhesive	1.5 oz (42.5 g) tube	N/A	92-86166Q1	
33	Loctite 680 Retaining Compound	10 ml tube	92-809833	92-809833	
34	Special Lubricant 101	8 oz (226.8 g) tube	92-802865A1	92-802865Q1	
42	U-Joint and Gimbal Bearing Grease		92-802870A1	92-802870Q1	
51	Loctite 222 Thread Locker	10 ml tube	92-809818	92-809818	
66	Loctite 242 Thread Locker	10 ml tube	92-809821	92-809821	
79	4 Cycle 25W40 En- gine Oil		92-802837A1	92-802837Q1	
82	Premium Gear Lubri- cant	1 US qt (0.94 L)	92-802846A1	92-802846Q1	
87 🗀	High Performance Gear Lube	1 US qt (0.94 L)	92-802854A1	92-802854Q1	
91	Engine Coupler Spline Grease	14 oz (0.39 kg) car- tridge	92-802869A1	92-802869Q1	
94	Anti-Corrosion Grease	8 oz (226.8 g) tube	92-802867A1	92-802867Q1	
95	2-4-C with Teflon	8 oz (226.8 g) tube	92-802859A1	92-802859Q1	
110	4 Stroke 10W30 Out- board Oil	1 US qt (0.94 L)	92-802833A1	92-802833Q1	
114	Power Trim & Steer- ing Fluid	8 oz (226.8 g)	92-802880A1	92-802880Q1	



Tube Ref. #	Description	Container Size	Mercury Part Num- ber	Quicksilver Part Number	
115	Premium Plus 2 Cycle TC-W3 Out- board Oil	1 US qt (0.94 L)	92-802824A1	92-802824Q1	
116	RTV 587 Silicone Sealer	3 oz (85.05 g)	92-809825	92-809825	
117	Loctite 7649 Primer N	4.5 oz (127.57 g)	92-809824	92-809824	
119	Storage Seal Rust In- hibitor	12 oz (325 ml) spray can	92-802878-56	92-802878Q56	
120	Corrosion Guard	12 oz (325 ml) spray can	92-802878 55	92-802878Q55	
121	15W40 4-cycle Diesel Engine Oil	1.06 US gal.(4 L)	92-877695K1	92-877695Q1	
122	Extended Life Anti- freeze/Coolant	1 US gal. (3.78 L)	92-877770K1	92-877770K1	
123	Marine Engine Cool- ant	1.33 US gal. (5 L)	NA	92-813054A2	
124	Fuel System Treat- ment and Stabilizer Concentrate	16 oz (437 ml)	92-802876A1	92-802876Q1	
125	Heat Transfer Com- pound	1.5 oz (42.5 g) tube	92-805701 1		
126	Liquid Gasket		92-808137	NA	
127	T442 Sealant		92-862258	NA	
128	Loctite 5900 Ultra Black RTV Silicone Sealant	13 oz (371 g) tube	92-809826	NA	
129	Loctite Gasket Re- mover	18 oz (532 ml) spray can	92-809828 1	NA	
130	Sealer Kit, Two Part Epoxy		NA	92-65150 1	
131	Anti-seize Compound	8 fl oz (237 ml)	92-881091K1		
	Dexron III Automatic Transmission Fluid		Obtain Locally	Obtain Locally	
	Loctite 592		Obtain Locally	Obtain Locally	
	Loctite Quick Tite		Obtain Locally	Obtain Locally	
	Isopropyl Alcohol		Obtain Locally	Obtain Locally	
	Hot Glue		Obtain Locally	Obtain Locally	
	Loctite 609		Obtain Locally	Obtain Locally	
	Loctite 405		Obtain Locally	Obtain Locally	



Tube Ref. #	Description	Container Size	Mercury Part Num- ber	Quicksilver Part Number
	Cyanacrylate Adhesive		Obtain Locally	Obtain Locally
	3M Permabond #3M08155		Obtain Locally	Obtain Locally
	Loctite 262		Obtain Locally	Obtain Locally
	Loctite 290		Obtain Locally	Obtain Locally