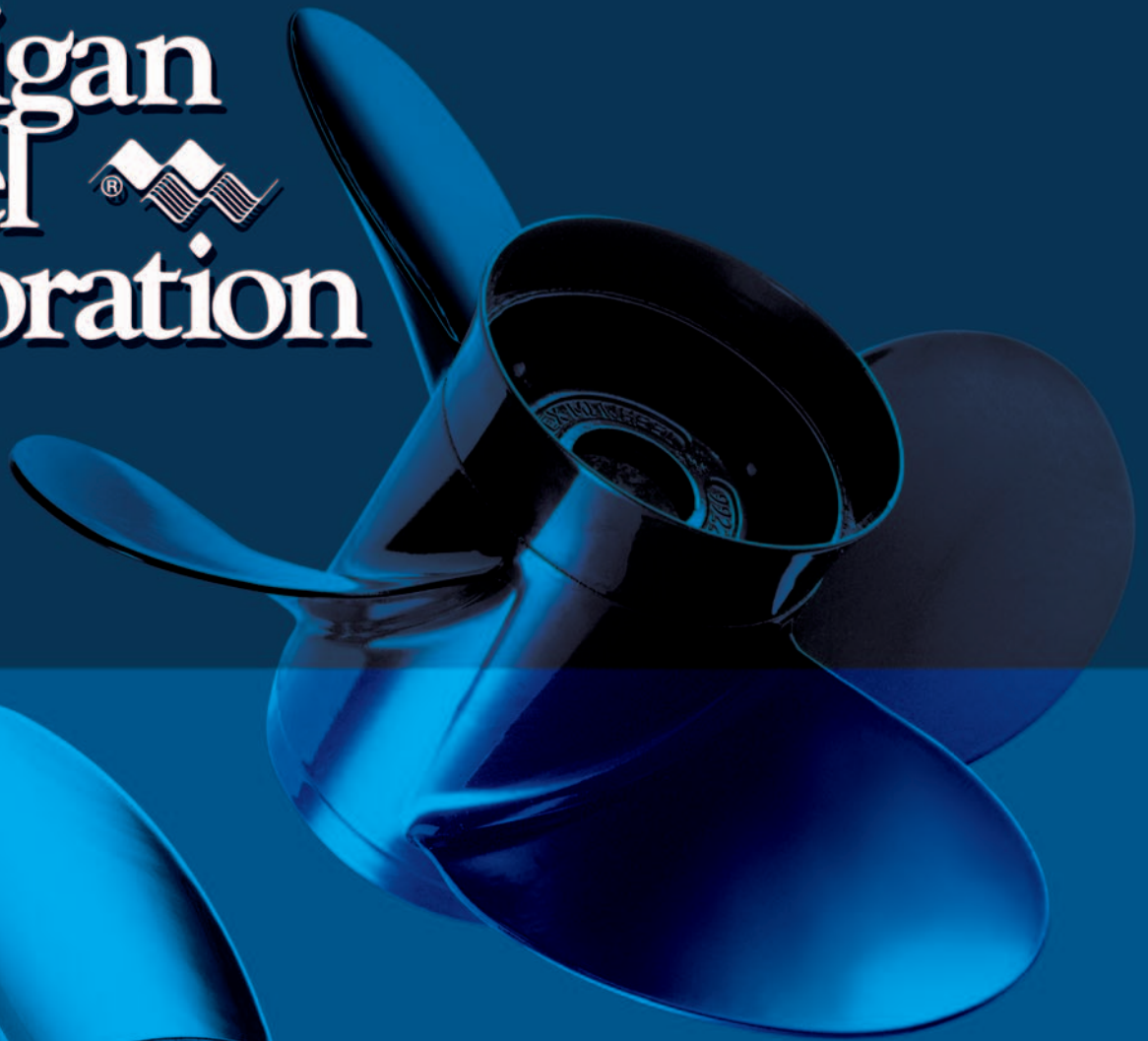


Michigan Wheel Corporation

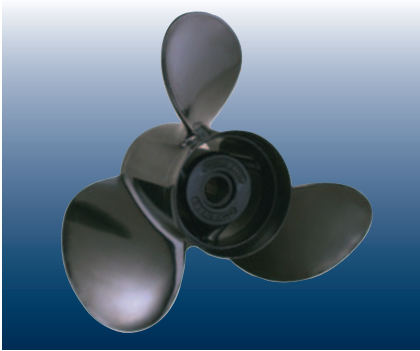


OUTBOARD & STERNDRIVE PROPELLERS 2008 CATALOG

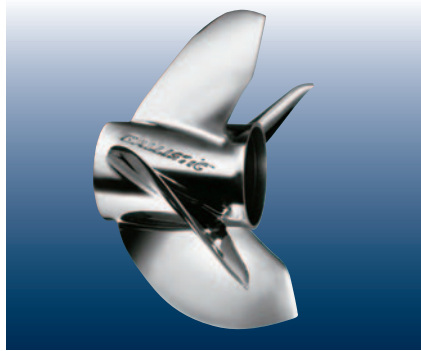


*Evinrude® • Johnson® • OMC • Force • Chrysler • U.S. Marine • Mercruiser® • Mercury • Mariner®
Nissan • Tohatsu • Suzuki • Honda • SX Cobra™ • Volvo Penta® • Yamaha*

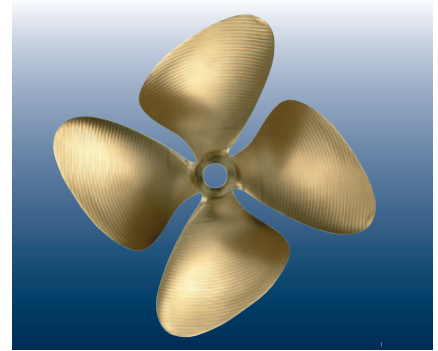
Michigan Wheel, introducing new props and improving old ones...since 1903.



'Old Faithful' with improved powder coating & beefier bushings. Great primary prop, yet priced as a weekend-saver spare!



High-performance stainless props with proven Power Tip. Finest materials, design and the industry's best warranty!



The New and Improved Ambush propellers are 100% CNC machined for the ultimate in accuracy and consistency.

XHS™ Propeller Series

Carry less inventory, cover more applications! High performance propellers with an exchangeable hub system. Michigan Wheel's Xchangeable Hub System absorbs impact and stress caused by shifting gears and is designed to spin under significant impact to protect your lower unit. XHS® is also designed to be interchangeable with Mercury's Flo-Torq II™ hub system, potentially saving you money when replacing or upgrading your propeller.

NEW for 2008 season - Vortex XHS large diameter 3-blade propellers for V4 Outboards.



Highly polished, ultimate performance, stainless steel propeller featuring CAD designed blade geometry. Available in standard 3-blade, large diameter 3-blade, and 4-blade propellers.



High performance aluminum replacement propeller featuring high performance blade geometry, and high gloss black powder coat finish. Available in 3 & 4 blade propellers.



Highly polished stainless steel performance propeller! A proven combination of performance and durability that will wake up your sterndrive or outboard!

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OUTBOARD PROPELLERS - APPLICATION GUIDE

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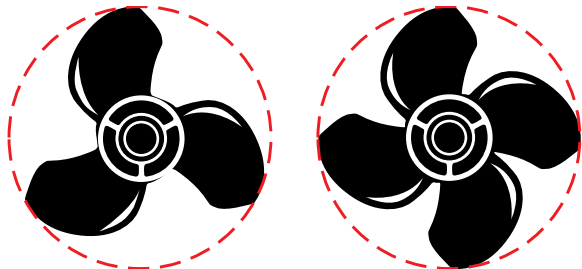
PROPELLER CROSS REFERENCE

Michigan Wheel Alpha-Numeric Cross Reference	B2
OEM Cross Reference	B3 - B30
XHS™ Hub System to Mercury Flo-Torq II® Hub System Cross Reference	B30
Michigan Wheel Warranty	B31
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PROPELLER BASICS

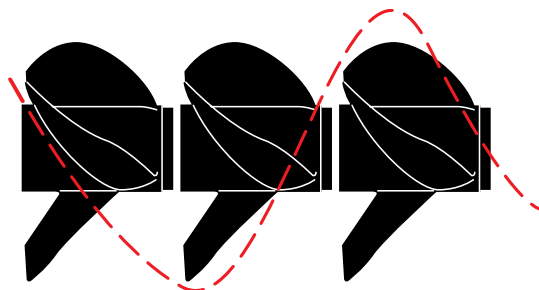
Diameter

Diameter is two times the distance from the center of the hub to the tip of the blade. It also can be looked at as the distance across the circle that the propeller would make when rotating. It is the first number listed when describing a propeller.



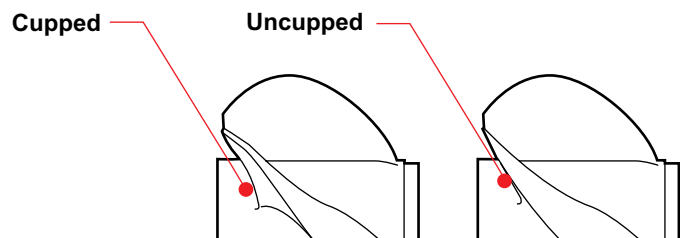
Pitch

Pitch is defined as the theoretical forward movement of a propeller during one revolution — assuming there is no “slippage” between the propeller blade and the water. For most boats, there is slippage and therefore the distance advanced is less than the design pitch. The amount of slippage varies from boat to boat. Pitch is the second number listed in the propeller description.



Cupping

Many of today’s propellers incorporate a cup at the trailing edge of the propeller blade. This curved lip on the propeller allows it to get a better bite on the water. This results in reduced ventilation, slipping, and allows for a better hole shot in many cases. A cupped propeller also works very well where the motor can be trimmed so that the propeller is near the surface of the water. The cup will typically result in higher top end speed on one of these applications.

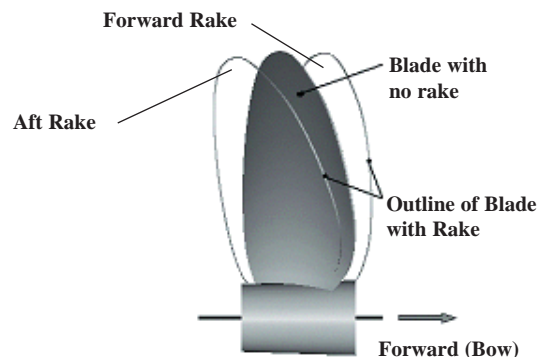


Rake

Rake is the degree that the blades slant forward or backwards in relation to the hub. Rake can affect the flow of water through the propeller, and as implications with respect to boat performance.

Aft Rake helps to trim the bow of the boat upwards, which often results in less wetted surface area and therefore higher top end speed. Aft rake propellers also typically “bite” better on ventilating type applications.

Forward, or negative rake, helps hold the bow of the boat down. This is more common in workboat type applications.



Ventilation

Ventilation is a situation where surface air or exhaust gasses are drawn into the propeller blades. When this situation occurs, boat speed is lost and engine RPM climbs rapidly. This can result from excessively tight cornering, a motor that is mounted very high on the transom, or by over-trimming the engine.

Cavitation

Cavitation, (which is often confused with ventilation), is a phenomena of water vaporizing or “boiling” due to the extreme reduction of pressure on the back of the propeller blade. Many propellers partially cavitate during normal operation, but excessive cavitation can result in physical damage to the propeller’s blade surface due to the collapse of microscopic bubbles on the blade.

There may be numerous causes of cavitation such as incorrect matching of propeller style to application, incorrect pitch, physical damage to the blade edges, etc...

Be advised disturbances in the water flow forward of the propeller can result in blade damage which appears to be blade cavitation, but is actually due to non-favorable water flow into the propeller.

PROPELLER BASICS

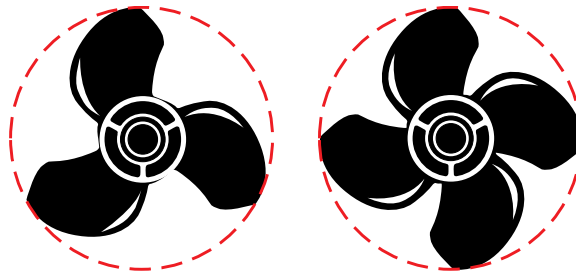
Finding the right match between the propeller, engine type and boat size will optimize the following performance factors — increased top end, faster planing speed, improved low end punch and load carrying capability.

If you want to modify your boat's performance, consider the following before making your selection.

3 blades ... or 4?

We recommend 3-blade propellers for recreational boats with 3, 4, and 6 cylinder outboards and I/O engines. These propellers provide good "hole shot" and top-speed performance.

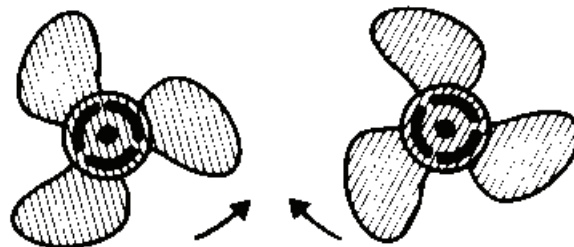
We recommend 4-blade propellers for bass boats and boats with high performance hulls running high horsepower outboard engines. Compared to 3 blades, they provide better "hole shot" performance with less steering torque and less vibration at high speeds.



What's the advantage of a left-hand prop?

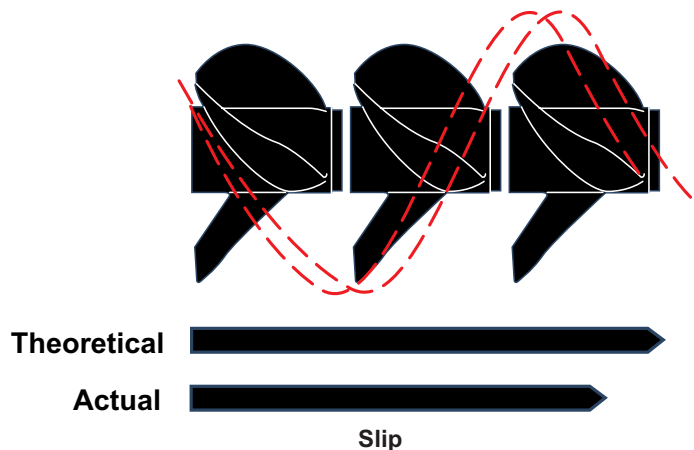
Two propellers spinning the same direction on twin engine boats will create steering torque. In other words, two right-hand propellers pull the stern hard to the right and the bow to the left.

Two opposite-direction propellers on twin engines eliminate this steering torque because the left-hand propeller balances out the right-hand propeller. This results in better straight-line tracking and helm control at high speed.



How does wheel diameter, pitch, and slip affect performance ... and how is it measured?

Slip is the difference between actual and theoretical travel of the propeller blades through water. A properly matched propeller will actually move forward about 80 to 90 percent of the theoretical pitch.



PROPELLER BASICS

What is the difference between thru-hub exhaust, over-hub exhaust, and non thru-hub exhaust?

Thru-hub exhaust propellers consist of a round barrel to which the blades are attached. The exhaust passes through the barrel and out the back, without making contact with the propeller blades. This provides a good clean water flow to the blades, usually resulting in good acceleration and hole shot.

Over-hub exhaust propellers have the blades attached directly to the smaller tube that fits over the propeller shaft, eliminating the larger exhaust tube. These types of propellers are often used for attaining maximum top speeds. (On some boats, the hole shot can often suffer due to the extreme exhaust flooding that occurs around the propeller blades during acceleration.)

Thru-hub exhaust and **over-hub exhaust** propellers are used on boats where the exhaust passes out through the rear of the “torpedo” on the lower unit, around the propeller shaft. Most outboards utilize this type of exhaust.

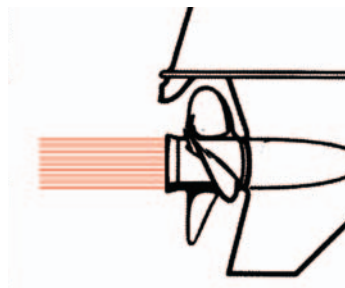
Over/Thru-hub exhaust propellers are a combination of thru-hub and over-hub exhaust propellers. This allows some exhaust to escape at lower RPM, providing a controlled amount of exhaust flooding. These types of propellers will allow the propeller to be slightly easier to turn during initial acceleration, allowing for a better hole shot on some engine/boat combinations.

Non thru-hub exhaust propellers are used for inboards using shaft driven propellers, sterndrives using through hull exhaust, and on some outboards that don't route the exhaust through the lower unit torpedo.

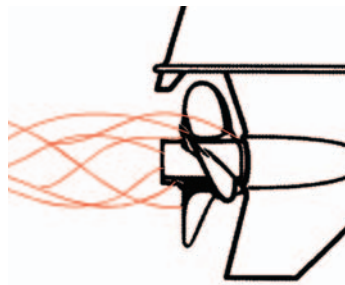
Aluminum vs. Stainless Steel?

Most pleasure boats are factory equipped with aluminum propellers. Aluminum propellers are relatively inexpensive, easy to repair, and under normal conditions can last for many years.

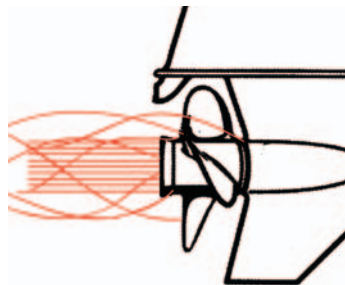
Stainless steel is more expensive, but much stronger and durable than aluminum. If you are looking for better performance than can be provided by your aluminum propeller, such as ultimate top speed or better acceleration, a stainless steel propeller may be required.



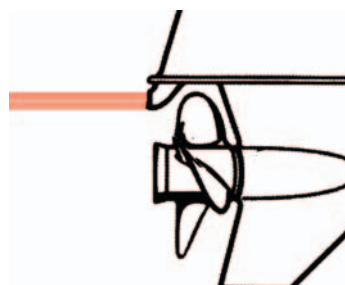
THRU-HUB EXHAUST PROPELLERS



OVER-HUB EXHAUST PROPELLERS



OVER/THRU-HUB EXHAUST PROPELLERS



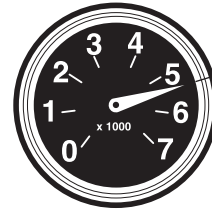
NON THRU-HUB EXHAUST PROPELLERS

CHOOSING THE CORRECT PITCH PROPELLER

For safety and efficient performance, it is critical that your engine operates within the RPM range recommended by the manufacturer. Matching the right prop for the load is the most significant factor when choosing a new propeller.

First, Determine Manufacturer's Recommended RPM

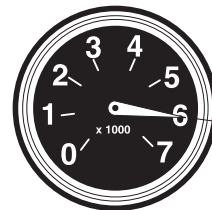
Find the manufacturer's recommended RPM range in the owner's manual or ask your dealer. A reference chart showing common engine applications is shown on Page A6 of this catalog.



Manufacturer's Recommended WOT RPM

Test for Maximum RPM

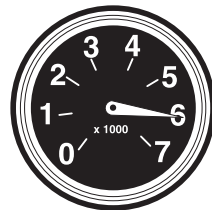
Using the existing propeller or a new propeller, make test runs to determine the maximum RPM and boat speed. Vary the trim angle for optimum performance.



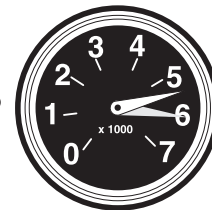
Test Run WOT RPM

RPM Higher Than Recommended

If the actual WOT RPM are *above* the recommended RPM range, install the next larger pitch propeller to *decrease* your WOT RPM. Re-test the WOT RPM.



Increase in Prop Pitch Equals...

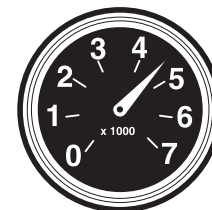


Decrease in RPM

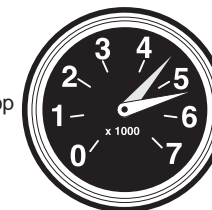
RPM Lower Than Recommended

If the actual WOT RPM range is below the recommended range, install the next smaller pitch propeller to increase your WOT RPM. Re-test the WOT RPM.

When you combine all these factors, you have the information you need to select the correct propeller for maximum performance, safety, and fuel efficiency.



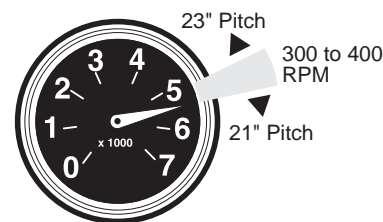
Decrease in Prop Pitch Equals...



Increase in RPM

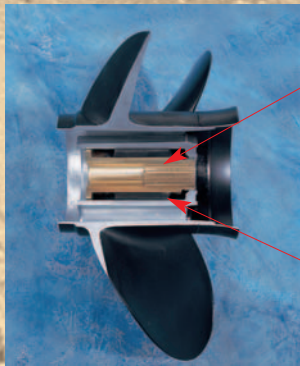
Effect of Prop Pitch on RPM

A pitch change can increase or decrease the RPM and bring RPM into the recommended range. A 2" *increase* in pitch (for example, from 21" to 23") typically results in a *decrease* of approximately 300-400 RPM.



MICHIGAN PROPELLERS

RUBBER HUB PROPELLERS



Brass Spindle

Rubber Cushioned Hub

Cutaway of Propeller and Bushing Assembly



AMBUSH4
REPLACEMENT PROPELLERS



BALLISTIC
STAINLESS-STEEL PROPS

XHS™ (DROP-IN HUB) PROPELLERS



RAPTURE XHS



VORTEX XHS
PERFORMANCE PROPELLERS



APOLLO XHS

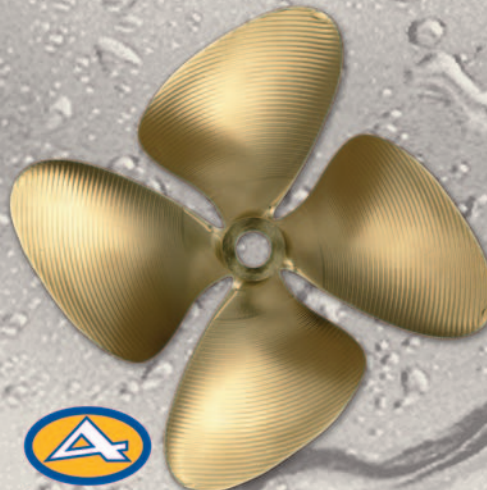


APOLLO XHS

SKI & TOW BOAT PROPELLERS

New and improved Ambush4 tow boat props, 100% CNC machined for ultimate accuracy and consistency.

Dyna-Jet Cupped ski boat propellers provides extra strength, less flex and greater durability.



AMBUSH4



DYNA-JET CUPPED

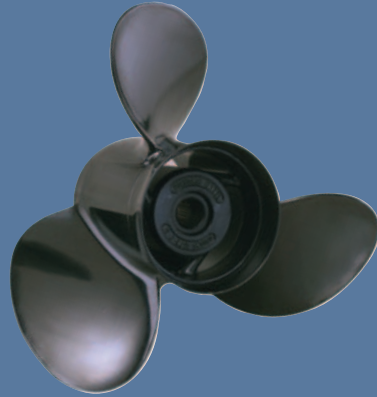
SEE PRODUCT APPLICATION GUIDE ON PAGES A8 - A13.

2008 MICHIGAN PROPELLERS

INFLATABLE	ALUMINUM	BASS BOAT	BAY BOAT	FLAT
√	√			
√	√			
√	√			
√	√	√	√	

MICHIGAN MATCH®

We pass the savings on to you in the form of a high quality, better-performing propeller that typically costs less than the motor manufacturer prop you're replacing. Every Michigan Match prop features a NAVAL brass spindle with rubber cushioned hub which absorbs impact and the stress caused by shifting gears. The rubber bushing is designed to spin free under significant impact, reducing the potential for lower unit damage. Great primary prop, yet priced as a weekend-saver spare!



- Improved powder coating and beefier bushing
- Perfect replacement propeller
- Available in aluminum and stainless steel

VORTEX™ 3-BLADE

High performance aluminum propeller utilizing the XHS exchangeable hub system. Features such as high performance blade geometry, precision balanced blades and high gloss powder coat and interchangeability with the Mercury Flo-Torq II™ system, make the Vortex XHS™ a great choice for a replacement or spare propeller for boaters.



- V6/V8 applications (15" - 21" pitch)
- V4 applications (15" - 21" pitch)
- 20-70 HP applications (9" - 17" pitch)
- All in RH rotations

VORTEX™ 4-BLADE

For quicker planing, improved handling and acceleration. These Vortex 4-blade aluminum propellers are a great alternative to a comparable 3-blade propeller, offering enhancing performance when towing water skiers, tubers, knee and wakeboarders.



- High performance blade geometry
- Precision performance
- V6/V8 applications (16", 18", 20" pitch)
- 20-70 HP applications (8" - 10" pitch)
- All in RH rotations

RAPTURE XHS™

Stainless Steel Performance Propellers! Rapture XHS™ features a high rake and progressive pitch design to provide the optimum combination of dead start, acceleration, bow lift, and flat out speed. A proven combination of performance and durability that will wake up your sterndrive or outboard. Designed to use Michigan Wheel's XHS hub system or Mercury's Flo-Torq II™ hub system.



- High performance blade geometry
- V6/V8 applications (15" - 25" pitch)
RH & LH rotations
- V4 applications (15" - 21" pitch), RH rotations

SPORTS BOAT	WALLEYE BOAT	OFFSHORE SINGLE	OFFSHORE DUAL	SPORT BOAT SINGLE	SPORT BOAT DUAL	PONTOON	SKI BOAT	FAMILY CRUISER	HOUSEBOAT	WORKBOAT
	✓	✓				✓	✓	✓	✓	✓
	✓	✓				✓	✓	✓		
	✓	✓				✓	✓	✓		
✓	✓	✓	✓	✓	✓		✓			

2008 MICHIGAN PROPELLERS

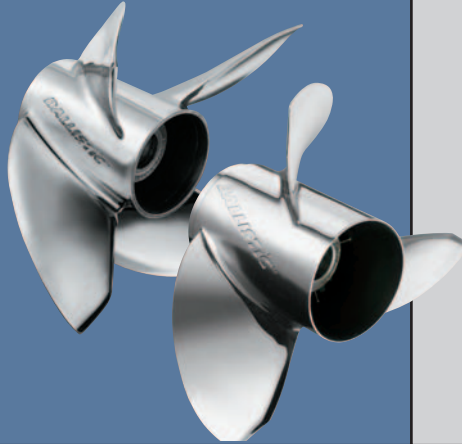
INFLATABLE	ALUMINUM	BASS BOAT	BAY BOAT	FLAT
		✓	✓	
✓	✓	✓		
			✓	
	✓		✓	

BALLISTIC™/3- & 4-blade

* Gold Metal Winner *
 Bass & Walleye Boats Magazine
 February 2004

High performance stainless steel prop with proven Power Tip for peak efficiency. Blade tip and cup combine to improve bite and reduce power losses caused by cavitation. Highly cambered blade sections provide for higher speed and better bow lift.

- *Tapered leading edges minimizes drag*
- *Performance characteristics of racing style props*
- *Maintains optimum blade strength and thickness.*



APOLLO XHS™ / 3-blade

NEW! Highly polished, ultimate performance, stainless steel propeller. Designed to use Michigan Wheel's XHS hub system or Mercury's Flo-Torq II™ hub system.

Standard 3-blade propeller can be utilized on typical outboard and sterndrive applications.

- *30-70 HP - 12" to 15" pitch, RH rotations*
- *V4 OB - 15" to 21" pitch, RH & LH rotations*
- *V6/V8 OBSD - 15" to 23" pitch, RH & LH rotations*



APOLLO XHS™ / Lg. Diameter

3-blade large diameter is great for heavier applications that require increased blade area.

- *High performance blade geometry*
- *V6/V8 applications (15" - 23" pitch) RH & LH rotations*



APOLLO XHS™ / 4-blade

4-blade improves hole shot on heavier loads and great for pulling/towing in water sports.

- *High performance blade geometry*
- *V6/V8 applications (16" - 22" pitch) RH & LH rotations*



SPORTS BOAT	WALLEYE BOAT	OFFSHORE SINGLE	OFFSHORE DUAL	SPORT BOAT SINGLE	SPORT BOAT DUAL	PONTOON	SKI BOAT	FAMILY CRUISER	HOUSEBOAT	WORKBOAT
✓				✓	✓		✓			
✓				✓	✓					
		✓	✓	✓	✓	✓		✓	✓	✓
	✓	✓	✓	✓	✓		✓			

New and improved !

AMBUSH-2008

From the leader in propeller manufacturing technology comes the latest generation of Ambush towboat propellers. These propellers are 100% CNC machined for the ultimate in accuracy and consistency. Michigan Wheel Corporation developed the CNC machining process for propellers in the mid - 1980's and revolutionized the way propellers were manufactured. Originally, the CNC machining technology was used to manufacture custom propellers for large mega-yachts where accuracy is critical and design geometry is complex. Now, that same technology is being used to provide the best towboat propeller on the market.



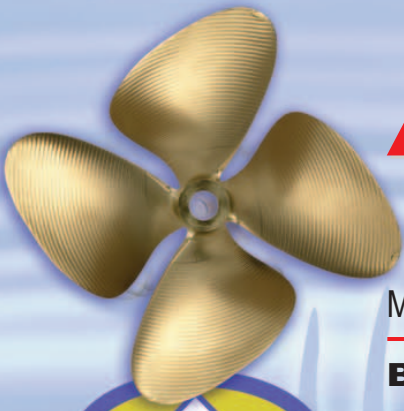
Ambush⁴

Part Number	Dia. x Pitch	Rotation	Bore
635101	13 x 13	LH	1"
635103	13 x 13	LH	1-1/8"
635300	13 x 16	RH	1"
635302	13 x 16	RH	1-1/8"
635400	14 x 18	RH	1"
635401	14 x 18	LH	1"
635402	14 x 18	RH	1-1/8"
635403	14 x 18	LH	1-1/8"
635404	14 x 18	RH	1-1/4"
635405	14 x 18	LH	1-1/4"

Dyna-Jet Cupped

Michigan Wheel Corporation's Federal Series ski boat propellers provide consistent response to your throttle commands. The 3-blade Dyna-Jet Cupped Propellers are made of a NiBrAl alloy which provides extra strength, less flex, and greater durability. All are cupped to minimize the performance draining effects of cavitation.

Part Number	Dia. x Pitch	Rotation	Bore
310649	13 x 12	LH	1"
310625	13 x 12-1/2	LH	1-1/8"
310660	13 x 13	RH	1"
310661	13 x 13	LH	1"
310659	13 x 13	LH	1-1/8"
310705	13 x 13-1/2	LH	1-1/8"
310724	13 x 14	RH	1"
310725	13 x 14	LH	1"
310727	13 x 14	LH	1-1/8"
310763	13 x 15	LH	1"
310765	13 x 15	LH	1-1/8"
310801	13 x 15-1/2	LH	1-1/8"
310836	13 x 17	RH	1"
311244	14 x 15	RH	1"
311284	14 x 16	RH	1"
311360	14 x 18	RH	1-1/8"
311361	14 x 18	LH	1-1/8"



Ambush⁴

Application Guide

Manufacturer	Application	Transmission	4-Blade	Ambush P/N
Brendella	Prior to 1992	1:1	13 x 13 LH 1"	635101
	After 1992	1:1	13 x 13 LH 1-1/8"	635103
Centurian	Eclipse / Elite	1:1	13 x 13 LH 1-1/8"	635103
Correct Craft	Ski Nautique	1.23:1	13 x 16 RH 1"	635300
	V-Drives	1.46:1	14 x 18 RH 1-1/8"	635402
Malibu	Prior to 1992	1:1	13 x 13 LH 1"	635101
	After 1992	1:1	13 x 13 LH 1-1/8"	635103
	V-Drives	1.46:1	14 x 18 LH 1-1/8"	635403
Mastercraft	N/A	1:1	13 x 13 LH 1"	635101
	N/A	1.5:1	14 x 18 LH 1-1/8"	635403
	1988 TBI Eng.	1:1	13 x 13 LH 1"	635101
M.B. Sports	N/A	1:1	13 x 13 LH 1-1/8"	635103
Moomba	Kanga, Mobius Pro	1:1	13 x 13 LH 1"	635101
	Outback	1:1	13 x 13 LH 1"	635101
	Kamberra, Mobius-V	1.5:1	14 x 18 LH 1-1/8"	635403
Sanger	Prior to 1992	1:1	13 x 13 LH 1"	635101
	After 1992	1:1	13 x 13 LH 1-1/8"	635103
Supra	N/A	1:1	13 x 13 LH 1"	635101
	N/A	1.23:1	13 x 16 RH 1"	635300
Tige	201 / 2100 Riders	1:1	13 x 13 LH 1-1/8"	635103
	2100 V LTD, 21 V Riders	1.5:1	14 x 18 LH 1-1/8"	635403
	2300 V LTD	1.5:1	14 x 18 LH 1-1/8"	635403

Ski Nautique is a registered trademark of Correct Craft.
 Kanga, Mobius Pro, Outback, Kamberra, and Mobius-V are registered trademarks of Moomba.

Eat My Wake

HOW TO USE THE APPLICATION GUIDE

- If original equipment part number (OEM) is known and a size or style change is not desired, then refer to Part Number Cross Reference on Pages B3 - B35 to locate the equivalent Michigan propeller.
- If an original part number is not known, the part number can not be found in the Part Number reference, or a propeller size or style change is desired, use the following procedure for selecting a propeller.

- 1 Locate the brand of outboard or sterndrive using the table of contents.
- 2 Locate the **Horsepower/Model** and **Year** that corresponds with the engine brand.
- 3 Find the range of your **Boat Length**, and the boat use that best describes your vessel and usage.
- 4 Select the propeller **Diameter/Pitch** that best meets your vessel and usage. Refer to pages A2 - A6 for information on choosing the right propeller.
- 5 Order the propeller using the **Michigan Part Number**. (If aluminum is desired, read across to the correct column for the part number. If stainless is desired, read across to the correct column for the part number.)
- 6 If **Vortex^{XHS}**, **Rapture^{XHS}**, or **Apollo^{XHS}** propellers are selected, the **XHSTM Hub Kit** indicated must be ordered.

Unless otherwise noted: The XHSTM hub kit is sold separately from the propeller. See page 104 for XHSTM hub kit and miscellaneous hardware information. Vortex^{XHS} and Rapture^{XHS} propellers fit existing Mercury Flo-Torq IITM hubs. Check existing hub for wear or damaged and replace if necessary with Michigan Wheel XHSTM hub.

Note: This is a "general" application guideline for determining the appropriate propeller size for you vessel. Performance characteristics may vary due to the many kinds of boats, hull styles, loads and style of boating.

1 MERCURYTM, MARINER¹, SEA RAY OUTBOARDS

40-140 HORSEPOWER Thru Hub Exhaust & 15 Tooth Spline

40, 50 HP (Bigfoot, 4-Stroke)All Years	90 HP (2 & 4-Stroke)1978 & Newer	▼ 650 2 Cyl.Thru 1971
60 HP (Bigfoot /Sea Pro Only, not 4-Stroke) 1995 & Newer	100 HP1988 & Newer	▼ 800-850 6 Cyl.Thru 1972
60 HP (Sea Pro/Marathon)1995 & Newer	115 HP1978 & Newer	▼ 800-850 4 Cyl.1972-77
70 HP1987-89	115 HP 4-Stroke2001 & Newer	▼ 900-1500 ModelsThru 1977
75 HP (2 & 4-Stroke)1984 & Newer	125 HP1994 & Newer	▼ 80 HP (Yamaha)1977
75 HP (Sea Pro/Marathon)All Years	140 HP (Includes Sea Pro & Offshore) 1978 - 81	▼ 80 HP (Mariner)1978-83
80 HP1978-89	▼ 650 4 Cyl. (2:1)1961-70	

BOAT DESCRIPTION/LENGTH	VORTEX ^{XHS} HIGH PERFORMANCE ALUMINUM PROPELLERS				APOLLO ^{XHS} ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
	3-BLADE		3-BLADE WIDE NEW		STD 3-BLADE			
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.
					14	R	13	992112
16-18' - Runabouts, SK	13-3/4	R	15	992103	13-3/4	R	15	992113
16-18' - Runabouts, SK								13-3/8 R 17 993153
15-17' - Runabouts, SK	13-1/4	R	17	992104	13-1/4	R	17	992114
15-17' - Runabouts, SK								13-1/2 R 17 993144
14-16' - Runabouts, SK	13	R	19	992105	13	R	19	992115
14-16' - Runabouts, SK								13-1/8 R 19 993145
13-15' - Runabouts, SK	12-3/4	R	21	992106	12-3/4	R	21	992116
13-15' - Runabouts, SK								13 R 21 993146
								13 L 21 993156



Drop-In Hub
Use XHSTM Hub Kit **102**
6
Use Gearcase Adapter Ring supplied with propeller.
Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	MATCH REPLACEMENT PROPELLERS							BALLISTIC STAINLESS STEEL PROPS									
	ALUMINUM & STAINLESS STEEL PROPS							BALLISTIC		BALLISTIC XL							
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
25' & Up - AL	14	R	11	3	AL	48-77338A40	031054										
22' & Up - AL	14	R	13	3	AL	48-7734A40	031055										
19-24' - AL, SK	13-3/4	R	15	3	AL	48-77342A40	031041	13-5/8	R	15	3	335130					
17-20' - AL, SK	13-1/4	R	17	3	AL	48-77344A40	031042	13-1/2	R	17	3	335131					
16-19' - AL, SK	13	R	19	3	AL	48-77346A40	031043	13-3/8	R	19	3	335132					
15-18' - AL, SK	12-3/4	R	21	3	AL	48-77348A40	031044	13-1/8	R	21	3	335133					
Lt. Runabouts	12-1/2	R	23	3	AL	48-77350A40	031045						13-12	R	22	3	335134
High Performance													13-1/2	R	24	3	335135

Rubber Hub Bushing
Use OEM fwd washer 13191 tab washer 14-816629 or MWC Kit 990332 or 9660-1
See Page 22 for details.

※ To avoid damage or injury, replace standard trim tab with trim tab 822777A1.
▼ When using rubber hub propeller, use thrust washer 13191A1. ▶ LIMITED INVENTORY ITEMS.

PROPELLERS

MOTOR APPLICATION GUIDE

OUTBOARD PROPELLERS

(PAGE 2 - 31)

STERNDRIVE PROPELLERS

(PAGES 32 - 38)

5.5-6 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

5.5-6 HP1954-65

● Hub is not included with propeller.

BOAT DESCRIPTION/LENGTH							
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
12-14' - LL	8	R	7-1/4	2	AL	376968	▶ 012060



No Hub
See ●

4-8 HORSEPOWER

Non-Thru Exhaust & Pin Drive

4 HP1980-83

4.5 HP Deluxe1986-95

6, 7.5, 8 HP1980 & Newer

BOAT DESCRIPTION/LENGTH							
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
Standard Replacement	8-1/2	R	9	3	AL	390237	012032



Rubber Hub Bushing

10 HORSEPOWER

Non-Thru Hub Exhaust & 13 Tooth Spline

10 HP1951-57

BOAT DESCRIPTION/LENGTH							
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
12-14' - AL	9	R	8	3	AL	277595	▶ 012006



Rubber Hub Bushing

6-15 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

6 HP1966-79

10 HP1958-63

8-15 HP2000 & Newer

9.5 HP1964-73

10, 12, 14 HP ***1982-94

BOAT DESCRIPTION/LENGTH							
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
14-16' - LL	7-3/4	R	6-1/2	3	AL		▶ 012068
14-16' - AL, SK	8-1/4	R	8	3	AL	387334	012008
12-14' - LL	8	R	7-1/4	2	AL	376968	012005
12-14' - LL	8-1/4	R	8-1/2	3	AL	377635	012007



Rubber Hub Bushing

9.9-15 HORSEPOWER

Thru Hub Exhaust & 13 Tooth Spline

9.9-15 HP1974 & Newer

8, 9.9, 15 HP (4-Stroke)1995 & Newer

BOAT DESCRIPTION/LENGTH							
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
Heavy Boats, SB	10	R	5	3	AL	386669	▶ 012113
14-16' - AL, SK	10	R	7	3	AL	398126	012112
Standard Replacement	9-1/2	R	10	3	AL	174950	012111



Rubber Hub Bushing

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

● Hub is not included with propeller.


▶ LIMITED INVENTORY ITEMS.

*** Engines offered in European Market only.

15-25 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive


15 HP1953-56 20 HP1969-73 25 HP1969-77
 18 HP1957-73

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							ALUMINUM & STAINLESS STEEL PROPS	 012011	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS									
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.			
CR, HB, SB	9-1/4	R	7	3	AL	388294	012102			
14-16' - HL	9	R	9	3	AL	379717	012109			
12-14' - LL	9	R	10	3	AL	383629	012011			
12-14' - LL	9-1/4	R	11	3	AL	388088	012013			

14-28 HORSEPOWER

Non-Thru Hub Exhaust & 13 Tooth Spline

14 HP1989 25 HP §1978-91 28 HP1986-96
 25 HP1978-84


BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							ALUMINUM & STAINLESS STEEL PROPS	 012015	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS									
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.			
16-18' - HL	9	R	9	3	AL	389068	012021			
15-17' - AL, SK	9	R	10	3	AL	389069	012015			
14-17' - AL, SK	9-1/4	R	11	3	AL	388883	012016			
14-17' - LL	9-1/4	R	12	3	AL	389944	012030			

25-30 HORSEPOWER (4-STROKE)

Thru Hub Exhaust & 10 Tooth Spline

25 HP (4-Stroke)2004 & Newer 30 HP (4-Stroke)2004 & Newer

BOAT DESCRIPTION/LENGTH	VORTEX ^{XHS™}				 992504 Vortex XHS™ Aluminum Propeller	Drop-In Hub Use XHS™ Hub Kit 121 Refer to pages 39-40 for more details.
	3-BLADE					
	Dia.	Rot.	Pitch	Part No.		
	10-1/2	R	9	992501		
	10-1/2	R	10	992502		
16-18' - AL	10-1/2	R	11	992503		
14-16' - AL	10-1/8	R	12	992504		
14-16' - AL	10-1/8	R	13	992505		
	10-1/8	R	14	992506		

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							BALLISTIC™ STAINLESS STEEL PROPS					 062013	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS							BALLISTIC						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.		
14-16' - AL								10-1/8	R	13	3	305529		
								10-1/8	R	15	3	305530		

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

§ Commercial & Workhorse Applications.

20-35 HORSEPOWER

Thru Hub Exhaust & 14 Tooth Spline

20 HP 2 Cyl.1984-97 25 HP 2 & 3 Cyl.1984 & Newer 35 HP 2 & 3 Cyl.1976 & Newer
 25 HP (Commercial)1993 & Newer 30 HP 2 Cyl.1984 & Newer Vortex prop may interfere with skeg on any models.

BOAT DESCRIPTION/LENGTH	VORTEX [™] XHS [™]			
	3-BLADE			
	Dia.	Rot.	Pitch	Part No.
17-20' - AL, SK	10-1/2	R	9	992501
17-20' - AL, SK	10-1/2	R	10	992502
16-18' - AL, SK	10-1/2	R	11	992503
16-18' - AL, SK	10-1/8	R	12	992504
15-17' - AL, SL	10-1/8	R	13	992505
13-15' - AL, SK	10-1/8	R	14	992506



992504
Vortex XHS™ Aluminum Propeller

Drop-In Hub

Use XHS™ Hub Kit **118**

Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH [™] REPLACEMENT PROPELLERS							BALLISTIC [™] STAINLESS STEEL PROPS				
	ALUMINUM & STAINLESS STEEL PROPS							BALLISTIC				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
CR, HB	11-1/4	R	7	3	AL		▶ 011032					
17-20' - AL, SK	11	R	9	3	AL	386317	012054					
17-20' - AL, SK	11	R	9	3	AL		▶ 011033					
16-18' - AL, SK	10-1/2	R	11	3	AL	175190	012055					
15-17' - AL, SK	10	R	13	3	AL	175191	012056	10-1/8	R	13	3	305029
13-15' - AL, SK	10	R	15	3	AL	390380	012057	10-1/8	R	15	3	305030



012056

Rubber Hub Bushing

25-40 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

25 HP1951-55 33 HP1965-70 40 HP1960-76
 28 HP1962-64 35 HP1957-59 40 HP §1978-85
 30 HP1956

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH [™] REPLACEMENT PROPELLERS						
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
CR, HB, SB	10-1/2	R	10	3	AL	376738	▶ 012027
17-19' - AL, SK	10-3/8	R	11-1/2	3	AL	385955	012023
14-16' - AL, SK	10-3/8	R	12-1/2	3	AL	378580	▶ 012022
14-16' - AL, SK	10-1/2	R	12	3	AL	380637	012024
14-16' - LL	10-3/8	R	13-1/2	3	AL	378579	▶ 012025



012027

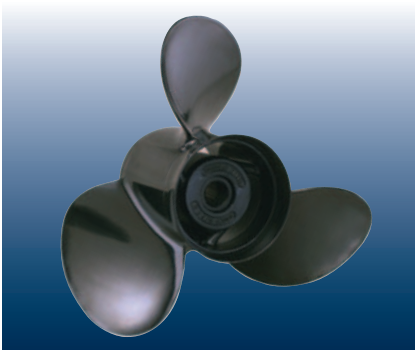
Rubber Hub Bushing

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

★ Indicates a cupped propeller.

▶ LIMITED INVENTORY ITEMS.



§ Commercial & Workhorse Applications.



40-50 HORSEPOWER (4-STROKE)

Thru Hub Exhaust & 13 Tooth Spline

40 HP (4-Stroke)1999 & Newer 50 HP (4-Stroke)1999 & Newer

BOAT DESCRIPTION/LENGTH	 HIGH PERFORMANCE ALUMINUM PROPELLERS				 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS							
	3-BLADE		4-BLADE		STD 3-BLADE							
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.
				11-1/2	R	8	992401					
				11-1/2	R	9	992402					
18-21' - AL				11-1/2	R	10	992403					
17-19' - AL	10-3/8	R	11	992404								
16-18' - AL	10-3/8	R	12	992405				10-3/4	R	12	993405	
14-16' - LL	10-3/8	R	13	992406				10-1/2	R	13	993406	
12-14' - LL	10-3/8	R	14	992407				10-3/8	R	14	993407	
12-14' - LL	10	R	15	992408				10-1/8	R	15	993408	
12-14' - LL	10	R	16	992409								






Apollo XHS Stainless Steel

Drop-In Hub

Use XHS™ Hub Kit **115**

Refer to pages 39-40 for more details.


BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS							 3-BLD STAINLESS STEEL				 BALLISTIC				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
	18-21' - AL	12-1/4	R	10	3	AL	778606	032045	10-1/2	R	10	▶ 033093				
18-21' - AL	12-1/4	R	10	3	AL		▶★ 031072									
17-19' - AL	12	R	11	3	AL	778607	032044									
15-17' - LL	11-3/8	R	12	3	AL	778608	032043	10-1/2	R	12	▶ 033094					
14-16' - LL	11-1/8	R	13	3	AL	778609	032042	10-1/2	R	13	▶ 033095	10-1/8	R	13	3	395929
12-14' - LL	11-1/4	R	14	3	AL	778610	032041	10-1/2	R	14	▶ 033096					
12-14' - LL	11	R	15	3	AL		032040	10-1/2	R	15	▶ 033097	10-1/8	R	15	3	395930
12-14' - LL	10-3/4	R	16	3	AL		▶ 032039									

Rubber Hub Bushing

40-75 HORSEPOWER • SMALL GEARCASE

Thru Hub Exhaust & 13 Tooth Spline

40 HP 2 Cyl.1984 & Newer 60 HP 2 Cyl.1980-85 Sprint1986-92
 48 HP1987-96 75 HP 3 Cyl.1975-85 Formula E1986-92
 50 HP 2 Cyl.1975 & Newer

BOAT DESCRIPTION/LENGTH	 HIGH PERFORMANCE ALUMINUM PROPELLERS								
	3-BLADE		4-BLADE						
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	
				11-1/2	R	8	992401		
				11-1/2	R	9	992402		
				11-1/2	R	10	992403		
15-18' - AL, SK	11-3/4	R	13	992301					
14-17' - AL, SK	11-3/4	R	15	992302					
13-15' - AL, SK	11-3/4	R	17	992303					



Vortex XHS™ Aluminum Propeller






Vortex XHS™ Aluminum Propeller

Drop-In Hub

Use XHS™ Hub Kit **111**

Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS							 3-BLD STAINLESS STEEL				 BALLISTIC				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
	CR, HB	13	R	11	3	AL	386907	012036	11-3/4	R	11	▶ 013080				
CR, HB	13	R	11	3	AL		★ 011034									
15-18' - AL, SK	12-1/2	R	13	3	AL	386909	012037	11-3/4	R	13	▶ 013081					
15-18' - AL, SK	12-1/2	R	13	3	AL		★ 011035									
14-17' - AL, SK	12-1/4	R	15	3	AL	176421	★ 011027	11-3/4	R	15	▶ 013082	12-3/8	R	15	3	325030
13-15' - LL	11-3/4	R	17	3	AL	386841	▶ 012039	11-3/4	R	17	▶ 013083	12	R	17	3	325031
13-15' - LL	11-3/4	R	17	3	AL	176422	★ 011028									
13-15' - LL	11-3/4	R	17	3	SS	390851	▶ 013026									
12-14' - LL	11-1/4	R	19	3	SS	390852	▶ 013032	11-3/4	R	19	▶ 013084					
12-14' - LL	11-1/2	R	19	3	AL	386908	▶ 012040									

Rubber Hub Bushing

★ Indicates a cupped propeller.

▶ LIMITED INVENTORY ITEMS.

45-75 HORSEPOWER • LARGE GEARCASE

Thru Hub Exhaust & 13 Tooth Spline

40 HP (E-TEC) .....2004 & Newer	50 HP 2 Cyl. Pleasure .....1971-74	70 HP 3 Cyl. Pleasure .....1974 & Newer
45 HP 2 Cyl. Commercial .....1986 & Newer	50 HP 3 Cyl. Pleasure .....1994 & Newer	75 HP 3 Cyl. Pleasure .....1975-84
50 HP (E-TEC) .....2004 & Newer	55 HP 3 Cyl. Pleasure .....1968-69	75 HP (E-TEC) .....2004 & Newer
50 HP 2 Cyl. Commercial .....1977-79	60 HP 3 Cyl. Pleasure .....1970-71,1986 & Newer	60 HP (4-Stroke) .....1998 & Newer
55 HP 2 Cyl. Commercial .....1980 & Newer	60 HP (E-TEC) .....2004 & Newer	70 HP (4-Stroke) .....1998 & Newer
65 HP 3 Cyl. Commercial .....1984 & Newer	65 HP 3 Cyl. Pleasure .....1972-73	

BOAT DESCRIPTION/LENGTH	HIGH PERFORMANCE ALUMINUM PROPELLERS								ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
	3-BLADE				3-BLADE WIDE NEW				STD 3-BLADE			
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.
					14	R	13	992112				
16-18' - Runabouts, SK	13-3/4	R	15	992103	13-3/4	R	15	992113	13-3/8	R	15	993143
16-18' - Runabouts, SK									13-3/8	L	15	993153
15-17' - Runabouts, SK	13-1/4	R	17	992104	13-1/4	R	17	992114	13-1/4	R	17	993144
15-17' - Runabouts, SK									13-1/4	L	17	993154
14-16' - Runabouts, SK	13	R	19	992105	13	R	19	992115	13-1/8	R	19	993145
14-16' - Runabouts, SK									13-1/8	L	19	993155
13-15' - Runabouts, SK	12-3/4	R	21	992106	12-3/4	R	21	992116	13	R	21	993146
13-15' - Runabouts, SK									13	L	21	993156



Drop-In Hub
Use XHS™ Hub Kit **106 & 110**

Note: For 60 HP & 70 HP 4-Stroke engine applications, 1998 & Newer, use XHS (Drop-In Hub) Kit # 110. For all other engine applications, use XHS™ (Drop-In Hub) Kit # 106 (do not use Gearcase Adapter Ring supplied with propeller).

Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	ALUMINUM & STAINLESS STEEL PROPS							BALLISTIC				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
	CR, HB	14	R	11	3	AL	382761	012047				
CR, HB	14	R	13	3	AL	391668	* 011001					
17-19' - AL, SK	13-3/4	R	15	3	AL	391198	* 011002	13-5/8	R	15	3	335030
15-18' - AL, SK	13-1/4	R	17	3	AL	391199	* 011003	13-1/2	R	17	3	335031
15-18' - AL, SK	14	R	17	3	AL	176214	* 011024					
14-16' - AL, SK	13	R	19	3	AL	390896	* 011004	13-3/8	R	19	3	335032
14-16' - AL, SK	14	R	19	3	AL	176215	* 011025					
13-15' - AL, SK	12-3/4	R	21	3	AL	389788	* 011005	13-1/8	R	21	3	335033
13-15' - AL, SK	12-3/4	R	21	3	SS	389512	013034					



Rubber Hub Bushing

60-90 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

V-4 HP 60, 65, 75, 80, 85, 901960-68

BOAT DESCRIPTION/LENGTH	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
	16-17' - AL, SK	10-1/8	R	11	3	AL	377978	012044
14-16' - AL, SK	10	R	12	3	AL	378039	012045



Rubber Hub Bushing


Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS

* If currently using uncupped propeller, use cupped propeller having 2" less pitch. Boats with power trim use same pitch.


100 HORSEPOWER Non-Thru Hub Exhaust & Pin Drive

100 HP1966-68

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							 012089	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
20-24' - 1 Engine	14	R	11	3	AL	382766	▶ 012089		

85-140 HORSEPOWER • V-4 GEARCASE Thru Hub Exhaust & 13 Tooth Spline

85 HP .....1969-80, 1991-95	110 HP .....1986-89	125 HP .....1971-72
88 HP .....1981-1996	112 HP .....1994-96	130 HP (E-TEC) .....2004 & Newer
90 HP .....1981 & Newer	115 HP .....1973 & Newer	135 HP .....1973-76
90 HP (E-TEC) Std. Length .....2004 & Newer	115 HP (E-TEC) .....2004 & Newer	140 HP .....1977-94
100 HP .....1979-80, 1988-93	120 HP .....1986-94	

BOAT DESCRIPTION/LENGTH	VORTEX^{XTS} HIGH PERFORMANCE ALUMINUM PROPELLERS							APOLLO^{XHS} ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS							 Apollo XHS Stainless Steel	Drop-In Hub Use XHS™ Hub Kit 106 Do NOT use Gearcase Adapter Ring supplied with propeller. Refer to pages 39-40 for more details.
	3-BLADE			3-BLADE WIDE NEW				STD 3-BLADE								
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.				
				14	R	13	992112									
19-22' - Runabouts, SK	13-3/4	R	15	992103	13-3/4	R	15	992113	13-3/8	R	15	993143				
19-22' - Runabouts, SK									13-3/8	L	15	993153				
18-21' - Runabouts, SK	13-1/4	R	17	992104	13-1/4	R	17	992114	13-1/4	R	17	993144				
18-21' - Runabouts, SK									13-1/4	L	17	993154				
17-20' - Runabouts, SK	13	R	19	992105	13	R	19	992115	13-1/8	R	19	993145				
17-20' - Runabouts, SK									13-1/8	L	19	993155				
15-18' - Runabouts, SK	12-3/4	R	21	992106	12-3/4	R	21	992116	13	R	21	993146				
15-18' - Runabouts, SK									13	L	21	993156				

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							BALLISTIC™ STAINLESS STEEL PROPS							Rubber Hub Bushing	
	ALUMINUM & STAINLESS STEEL PROPS							BALLISTIC				BALLISTIC XL				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.		Pitch	Bld#	Part No.
CR, HB	14	R	11	3	AL	382761	012047									
CR, HB	14	R	13	3	AL	391668	011001									
20-24' - AL, SK	13-3/4	R	15	3	AL	391198	011002	13-5/8	R	15	3	335030				
19-22' - AL, SK	13-1/4	R	17	3	AL	391199	011003	13-1/2	R	17	3	335031				
19-22' - AL, SK	14	R	17	3	AL	176214	011024									
17-19' - AL, SK	13	R	19	3	AL	390896	011004	13-3/8	R	19	3	335032				
17-19' - AL, SK	14	R	19	3	AL	176215	011025									
15-18' - AL, SK	12-3/4	R	21	3	AL	389788	011005	13-1/8	R	21	3	335033				
15-18' - AL, SK	12-3/4	R	21	3	SS	389512	▶ 013034									
High Performance												13-1/2	R	22	3	335034
High Performance												13-1/2	R	24	3	335035




Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS

◆ New Pontoon Boat Propellers - Extra Cup!

90, 115 & 140 HORSEPOWER (4-STROKE)

90 HP (4-Stroke)2003 & Newer 115 HP (4-Stroke)2003 & Newer 140 HP (4-Stroke)2003 & Newer

BOAT DESCRIPTION/LENGTH	 HIGH PERFORMANCE ALUMINUM PROPELLERS								 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS											
	3-BLADE				3-BLADE WIDE NEW				STD 3-BLADE				 Apollo XHS Stainless Steel							
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.								
					14	R	13	992112												
19-22' - Runabouts, SK	13-3/4	R	15	992103	13-3/4	R	15	992113	13-3/8	R	15	993143								
19-22' - Runabouts, SK									13-3/8	L	15	993153								
18-21' - Runabouts, SK	13-1/4	R	17	992104	13-1/4	R	17	992114	13-1/4	R	17	993144								
18-21' - Runabouts, SK									13-1/4	L	17	993154								
17-20' - Runabouts, SK	13	R	19	992105	13	R	19	992115	13-1/8	R	19	993145								
17-20' - Runabouts, SK									13-1/8	L	19	993155								
15-18' - Runabouts, SK	12-3/4	R	21	992106	12-3/4	R	21	992116	13	R	21	993146								
15-18' - Runabouts, SK									13	L	21	993156								



Drop-In Hub

Use XHS™ Hub Kit **125** & **126**

Use Gearcase Adapter Ring supplied with propeller.

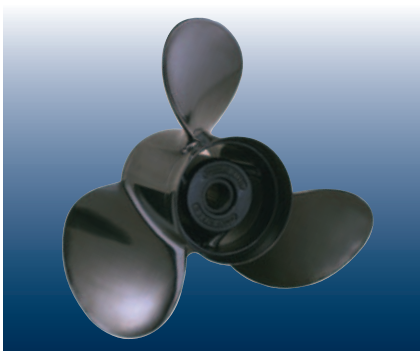
Refer to pages 39-40 for more details.

Note: For 90 & 115 HP 4-Stroke applications use XHS™ (Drop-in Hub) Kit # 125. For 140 HP 4-Stroke applications use XHS™ (Drop-in Hub) Kit # 126. Use Gearcase Adapter Ring supplied with propeller.

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS								 BALLISTIC™ STAINLESS STEEL PROPS								
	ALUMINUM				STAINLESS STEEL				BALLISTIC				BALLISTIC XL				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
25' - AL	14	R	11	3	AL		101036										
22' - AL	13-5/8	R	13	3	AL		101031										
20-24' - AL, SK	13-1/2	R	15	3	AL		101032	13-5/8	R	15	3	335930					
17-19' - AL, SK	13-1/4	R	17	3	AL	777024	101033	13-1/2	R	17	3	335931					
16-18' - AL, SK	13	R	19	3	AL	777025	101034	13-3/8	R	19	3	335932					
15-18' - AL, SK	12-5/8	R	21	3	AL	777026	101035	13-1/8	R	21	3	335933					
High Performance													13-1/2	R	22	3	335934
High Performance													13-1/2	R	24	3	335935

Rubber Hub Bushing

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless






90-300 HORSEPOWER • V-6 GEARCASE

Thru Hub Exhaust & 15 Tooth Spline

90 HP .....1995 & Newer	150 HP Commercial .....1993 & Newer	235 HP .....1978-85
90 HP (E-TEC) Extra Long .....2004 & Newer	150 HP .....1978 & Newer	250 HP .....1991 & Newer
100 HP Commercial .....1984 & Newer	155 HP Commercial .....1978 & Newer	275 HP .....1986-88
115 HP .....1995 & Newer	175 HP .....1977 & Newer	300 HP .....1986-95
120-140 HP .....1985	185 HP .....1984-85	2.6 Liter .....1984-85
130 HP .....1995 & Newer	200 HP .....1976 & Newer	3.6 Liter .....1986-87
140 (25") HP .....1989-94	225 HP .....1986 & Newer	* For engines 300 HP or higher, use "high horsepower sleeve".

See Page 39 for more details.



 HIGH PERFORMANCE ALUMINUM PROPELLERS								 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS																			
3-BLADE				4-BLADE				3-BLADE				STD 3-BLADE				LG. DIAMETER 3-BLADE				4-BLADE							
Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.				
15-1/4	R	15	992002									14-3/8	R	15	993042												
								14-1/4	L	15	993012	14-3/8	L	15	993052												
15	R	17	992003	15	R	16	992202					14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203				
												14-1/4	L	17	993053	15-1/2	L	17	993033	14-5/8	L	16	993213				
14-1/2	R	19	992004	14-1/2	R	18	992203					14-1/8	R	19	993044	15-1/4	R	19	993024	14-3/8	R	18	993204				
								14-1/4	L	19	993014	14-1/8	L	19	993054	15-1/4	L	19	993034	14-3/8	L	18	993214				
14-1/4	R	21	992005	14	R	20	992204					14	R	21	993045	14-3/4	R	21	993025	14-1/8	R	20	993205				
								14-1/4	L	21	993015	14	L	21	993055	14-3/4	L	21	993035	14-1/8	L	20	993215				
14	R	23	992006									13-7/8	R	23	993046	14-5/8	R	23	993026	14	R	22	993206				
								14-1/4	L	23	993016	13-7/8	L	23	993056	14-5/8	L	23	993036	14	L	22	993216				
								14-1/4	L	25	993017																

Drop-In Hub

Use XHS™
Hub Kit
100
&
101

Refer to pages 39-40 for more details.

Note: For engine applications 1976-1990 use XHS™ (Drop-In Hub) Kit # 101. For engine applications 1991 & Newer, use XHS™ (Drop-In Hub) Kit # 100. Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	 HIGH PERFORMANCE ALUMINUM & STAINLESS STEEL PROPS							 BALLISTIC STAINLESS STEEL PROPS									
	ALUMINUM & STAINLESS STEEL PROPS							BALLISTIC				BALLISTIC XL					
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
CR, HB	15-1/2	R	10	3	AL		011015										
CR, HB	15-1/2	R	13	3	AL	391536	011016										
CR, HB	15-1/2	R	15	3	AL	391535	011006	14-7/8	R	15	3	345031					
CR, HB	15	L	15	3	SS	174927	013051										
20-26' - AL, SK	15	R	17	3	AL	391200	011007	14-3/4	R	17	3	345032					
20-26' - AL, SK								14-3/4	L	17	3	345062					
18-22' - AL, SK	14-1/2	R	19	3	AL	391201	011008	14-1/2	R	19	3	345033					
18-22' - AL, SK	14-1/2	L	19	3	SS	390821	013045	14-1/2	L	19	3	345063					
17-19' - AL, SK	14-1/4	R	21	3	AL	391202	011009	14-3/8	R	21	3	345034					
17-19' - AL, SK	14-1/4	L	21	3	SS	390822	013047	14-3/8	L	21	3	345064					
15-18' - AL, SK	14-1/4	R	23	3	AL	391203	011010										
15-18' - AL, SK	14-1/4	R	23	3	SS	389019	013050	14-1/4	R	23	3	345035					
High Performance													14-1/2	R	22	3	345041
High Performance													14-1/2	R	24	3	345037
High Performance													14-1/2	R	26	3	345038
High Performance 4-Blade Propellers																	
50-62 MPH													13-3/4	R	23	4	** 435035
55-67 MPH	13-3/4	R	24	4	SS		** 013038						13-3/4	R	25	4	** 435036
60-72 MPH													13-3/4	R	27	4	** 435037

Rubber
Hub
Bushings

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

† Skeg modification may be required for proper fit. Use thrust washer 333592. ▶ LIMITED INVENTORY ITEMS.
** Forward thrust washer A-9500-111 comes with propeller and replaces the standard OMC thrust washer, except when used on a 1991 or 1992.

3.5-3.6 HORSEPOWER

Pin Drive

3.5-3.6 HP1969-76

BOAT DESCRIPTION/LENGTH								 072017	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
Standard Replacement	7-1/2	L	4-1/2	2	AL	48-FP19	▶ 072017		

3.5-8 HORSEPOWER

Non-Thru Hub Exhaust & 9 Tooth / Pin Drive

3.5 HP1980-84 5 HP1987-98 4, 4.4, 6, 6.6, 7, 7.5 & 8 HP1968-88

BOAT DESCRIPTION/LENGTH								 072123	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
Standard Replacement	7-1/4	R	5-1/2	3	AL	48-FP488	072123		

6-10 HORSEPOWER

Non-Thru Hub Exhaust & 14 Tooth / Pin Drive

6-10 HP Sailor1976-78 Sailor 180-2501979-84

BOAT DESCRIPTION/LENGTH								 072014	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
SB	10-3/8	R	10	3	AL	FP-278	072014		

25 HORSEPOWER

Thru Hub Exhaust & 10 Tooth Spline

25 HP 3 Cyl.1995-98

BOAT DESCRIPTION/LENGTH					 992504 Vortex XHS™ Aluminum Propeller	Drop-In Hub Use XHS™ Hub Kit 120 Refer to pages 39-40 for more details.
	3-BLADE					
Dia.	Rot.	Pitch	Part No.			
	10-1/2	R	9	992501		
	10-1/2	R	10	992502		
15-17'	10-1/2	R	11	992503		
15-17'	10-1/8	R	12	992504		
13-17'	10-1/8	R	13	992505		
Up to 14'	10-1/8	R	14	992506		

BOAT DESCRIPTION/LENGTH												 031049	Rubber Hub Bushing	
	ALUMINUM & STAINLESS STEEL PROPS							BALLISTIC						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#			Part No.
15-19'	10-3/8	R	11	3	AL	48-19638A40	031049							
13-17'	10-3/8	R	13	3	AL	48-19640A40	031048	10-1/8	R	13	3	305129		
Up to 14'	10-1/4	R	14-1/2	3	AL	48-19642A40	▶ 031047	10-1/8	R	15	3	305130		

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS

20-60 HORSEPOWER

Non-Thru Hub Exhaust & 14 Tooth / Pin Drive

20-25 HP .....1979-81	40 HP .....1992-94	50 HP .....1982-94
30 HP .....1966-82	45 HP .....1966-84	55-60 HP❖ .....1966-84
35 HP .....1966-91		

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS						
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
CR, HB, SB	10-3/8	R	10	3	AL	48-819337A40	072014
17-19' - AL, SK	10-3/8	R	11-1/2	3	AL	48-819336A40	072131
16-17' - AL, SK	10-3/8	R	12-1/2	3	AL	48-819335A40	072132
14-16' - AL, SK	10-3/8	R	13-1/2	3	AL	48-819334A4	072133



Rubber Hub Bushing

40-75 HORSEPOWER

Thru Hub Exhaust & 13 Tooth Spline

40, 50 HP1995-98	70 HP1991-95	75 HP1996-98
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BOAT DESCRIPTION/LENGTH	VORTEX ^{XHS}				HIGH PERFORMANCE ALUMINUM PROPELLERS				APOLLO ^{XHS}				ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
	3-BLADE				4-BLADE				STD 3-BLADE							
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.
19' & Up					11-1/2	R	8	992401								
19' & Up					11-1/2	R	9	992402								
17-19' - AL, SK					11-1/2	R	10	992403								
16-18' - AL, SK	10-3/8	R	11	992404												
15-17' - AL, SK	10-3/8	R	12	992405					10-3/4	R	12	993405				
14-17' - AL, SK	10-3/8	R	13	992406					10-1/2	R	13	993406				
14-16' - LL	10-3/8	R	14	992407					10-3/8	R	14	993407				
13-15' - LL	10	R	15	992408					10-1/8	R	15	993408				
13-15' - LL	10	R	16	992409												



Apollo XHS Stainless Steel

Drop-In Hub

Use XHS™ Hub Kit **114**

Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							RAPTURE				BALLISTIC ^{STAINLESS STEEL PROPS}				
	ALUMINUM & STAINLESS STEEL PROPS											BALLISTIC				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
19' & Up	12-1/2	R	8	3	AL	48-42738A10	032141									
17-19' -AL, SK	11-1/4	R	10	3	AL	48-73132A40	031015	10-1/2	R	10	▶ 033088					
16-18' - AL, SK	12	R	10-1/2	3	AL	48-42740A10	032142									
16-18' - AL, SK	10-7/8	R	11	3	AL	48-85632A40	031053									
15-17' - AL, SK	10-3/4	R	12	3	AL	48-816702A40	031056	10-1/2	R	12	▶ 033089					
15-17' - AL, SK	10-5/8	R	12	3	AL	48-73134A40	031016									
14-17' - AL, SK	10-1/2	R	13	3	AL	48-816704A40	031057	10-1/2	R	13	▶ 033090	10-1/8	R	13	3	395129
14-17' - AL, SK	10-3/8	R	13	3	AL	48-73136A40	031017									
14-16' - LL	10-3/8	R	14	3	AL	48-816706A40	031058	10-1/2	R	14	▶ 033091					
14-16' - LL	10-1/4	R	14	3	AL	48-73138A40	031018									
13-15' - LL	10-1/8	R	15	3	AL	48-73140A40	031019	10-1/2	R	15	▶ 033092	10-1/8	R	15	3	395130
Up to 15'	10	R	17	3	AL	48-73144A40	031020									

Rubber Hub Bushing

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS.

70-140 HORSEPOWER

Non-Thru Hub Exhaust & 15 Tooth Spline

70-140HP ♦1977-89

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS						
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
16-17' - AL, SK	13-1/8	R	15	3	AL	FPS519	072055
14-16' - AL, SK	13-1/4	R	17	3	AL	FPS623	072107
14-16' - LL	13	R	19	3	AL	FPS625	072108



Rubber
Hub
Bushings

85-150 HORSEPOWER • SINGLE EXHAUST UNITS

Thru Hub Exhaust & 15 Tooth Spline

85, 125 HP1988-89 90 HP L-DRIVE1989-91 150 HP1989-94
 90, 120 HP1990-94 120 HP L-DRIVE1989-91 150 HP L-DRIVE1991

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS						
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
17-22' - AL, SK	13-1/2	R	15	3	AL	48-FP669-1	* 071035
17-22' - AL, SK	13-1/2	R	15	3	AL	48-FP692-1	072127
16-20' - AL, SK	13-1/2	R	17	3	AL	48-FP685-1	* 071036
16-20' - AL, SK	13-1/2	R	17	3	AL	48-FP685-1	072128
16-18' - AL, SK	13	R	19	3	AL	48-FP686-1	▶ 072129



Rubber
Hub
Bushings

75-150 HORSEPOWER • DUAL EXHAUST UNITS (1995 & NEWER)

Thru Hub Exhaust & 15 Tooth Spline

75-150 HP1995 & Newer

BOAT DESCRIPTION/LENGTH	VORTEX XHS™ HIGH PERFORMANCE ALUMINUM PROPELLERS				APOLLO™ ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				
	3-BLADE		3-BLADE WIDE NEW		STD 3-BLADE				
	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	
				14	R 13	992112			
16-18' - Runabouts, SK	13-3/4	R 15	992103	13-3/4	R 15	992113	13-3/8	R 15	993143
16-18' - Runabouts, SK							13-3/8	L 15	993153
15-17' - Runabouts, SK	13-1/4	R 17	992104	13-1/4	R 17	992114	13-1/4	R 17	993144
15-17' - Runabouts, SK							13-1/4	L 17	993154
14-16' - Runabouts, SK	13	R 19	992105	13	R 19	992115	13-1/8	R 19	993145
14-16' - Runabouts, SK							13-1/8	L 19	993155
13-15' - Runabouts, SK	12-3/4	R 21	992106	12-3/4	R 21	992116	13	R 21	993146
13-15' - Runabouts, SK							13	L 21	993156



Drop-In Hub

Use XHS™
Hub Kit
102

Use Gearcase
Adapter Ring
supplied with
propeller.

Refer to pages 39-40
for more details.

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

♦ One piece lower unit.

▶ LIMITED INVENTORY ITEMS.

* Cupped Propeller. If currently using uncupped propeller, use cupped propeller having 2" less pitch. Boats with power trim use same pitch.

75-150 HORSEPOWER • DUAL EXHAUST UNITS • (Using Mercury Gearcase - See Below) Thru Hub Exhaust & 15 Tooth Spline

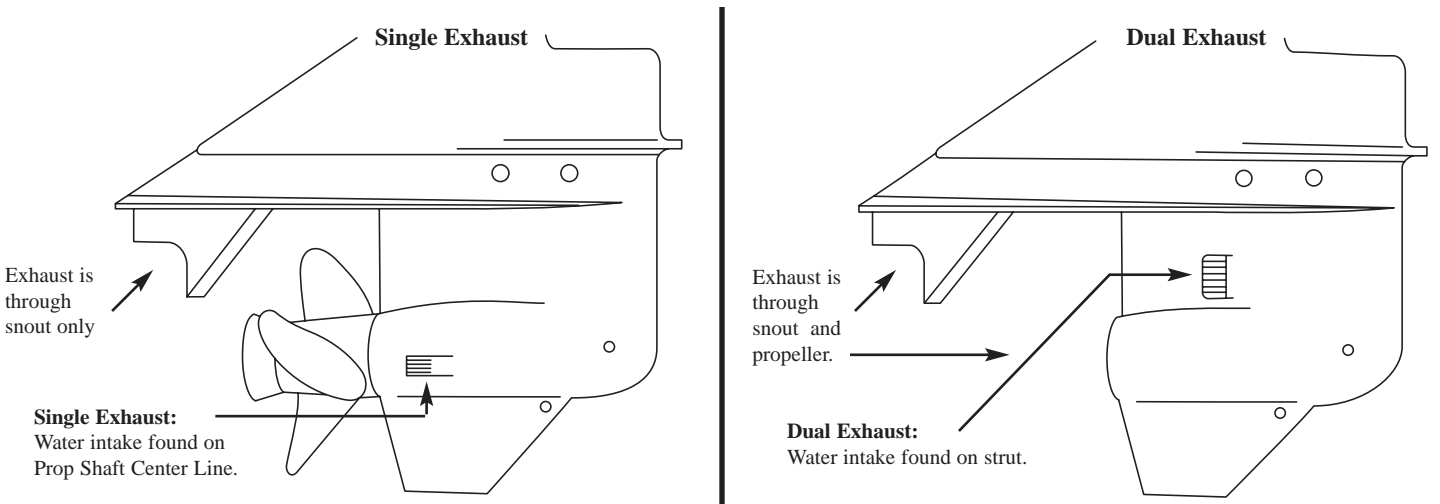
75 HP ††1999 & Newer 90, 120 HP ††1995-98 150 HP †1989-94
 90 HP L-Drive †1990-91 120 HP L-Drive †1990-91 150 HP L-Drive †1991

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							BALLISTIC™ STAINLESS STEEL PROPS					Rubber Hub Bushing					
	ALUMINUM & STAINLESS STEEL PROPS							BALLISTIC						BALLISTIC XL				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.		Dia.	Rot.	Pitch	Bld#	Part No.
25' & Up - AL	14	R	11	3	AL	48-77338A40	031054											
NEW ← Pontoon	14	R	11	3	AL	48-77338CP1	◆ 031200											
NEW ← 25' & Up - AL	14	R	12	3	AL		031060											
NEW ← Pontoon	14	R	12	3	AL		◆ 031201											
22' & Up - AL	14	R	13	3	AL	48-77340A40	031055											
NEW ← Pontoon	14	R	13	3	AL	48-77340CP1	◆ 031202											
19-24' - AL, SK	13-3/4	R	15	3	AL	48-77342A40	031041	13-5/8	R	15	3	335130						
17-20' - AL, SK	13-1/4	R	17	3	AL	48-77344A40	031042	13-1/2	R	17	3	335131						
16-19' - AL, SK	13	R	19	3	AL	48-77346A40	031043	13-3/8	R	19	3	335132						
15-18' - AL, SK	12-3/4	R	21	3	AL	48-77348A40	031044	13-1/8	R	21	3	335133	13-12	R	22	3	★ 335134	
Up to 17" - LL	12-1/2	R	23	3	AL	48-77350A40	▶ 031045						13-1/2	R	24	3	★ 335135	

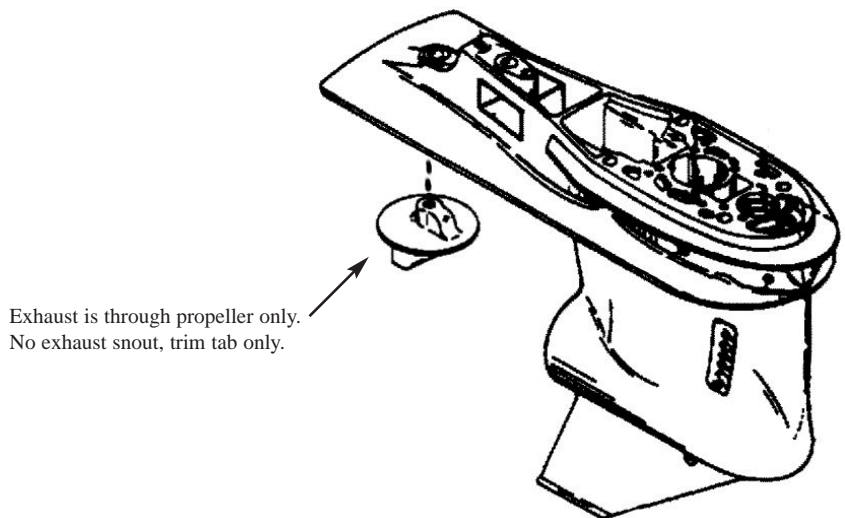
Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

† For dual exhaust units only & requires thrust washer 23-819057. †† For all units 1995 thru current. Requires thrust washer 13191A1.
 ★ Requires special exhaust snout Part No. F744116 for proper fit. ◆ New Pontoon Boat Propellers - Extra Cup! ▶ LIMITED INVENTORY ITEMS.

Single vs. Dual Exhaust





Force Using Mercury Gearcase



7.5-10 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive



BF 7.51978-87 BF 81987-99 BF 100 (10 HP)All Years

BOAT DESCRIPTION/LENGTH								 012006	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
14-16' - Weedless	9	R	8	3	AL		▶ 012006		
14-16' - LL	9	R	9	3	AL	58130-881-840ZA	012109		
12-14'	9	R	10	3	AL		012011		
12-14' - LL	9-1/4	R	11	3	AL		012013		

8-15 HORSEPOWER

Thru Hub Exhaust & 8 Tooth Spline

BF 82000 & Newer BF 9.91988 & Newer BF 15All Years



BOAT DESCRIPTION/LENGTH								 102003	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
HL, HB	9-3/4	R	6-1/2	3	AL	58110-ZV4-DT15	▶ 112004		
13-17' - AL	9-1/4	R	8	3	AL	58130-ZV4-008AH	102003		
12-15' - AL	9-1/4	R	9	3	AL	58130-ZV4-701ZA	102004		
12-15' - LL	9-1/4	R	10-1/2	3	AL	58130-ZV4-030ZA	102005		

25-30 HORSEPOWER

Thru Hub Exhaust & 10 Tooth Spline

BF 25All Years BF 30All Years

BOAT DESCRIPTION/LENGTH					 992504 Vortex XHS™ Aluminum Propeller	Drop-In Hub Use XHS™ Hub Kit 119 Refer to pages 39-40 for more details.
	3-BLADE					
	Dia.	Rot.	Pitch	Part No.		
	10-1/2	R	9	992501		
	10-1/2	R	10	992502		
	10-1/2	R	11	992503		
	10-1/8	R	12	992504		
	10-1/8	R	13	992505		
	10-1/8	R	14	992506		

 Ballistic High Performance Stainless Steel Propeller											Rubber Hub Bushing	
	BALLISTIC					BALLISTIC XL						
	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.		
	10-1/8	R	13	3	305229							
	10-1/8	R	15	3	305230							



Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS. ★ Indicates a cupped propeller. ◆ New Pontoon Boat Propellers - Extra Cup! (see page 15)

35-50 HORSEPOWER

Thru Hub Exhaust & 13 Tooth Spline




BF 351991-94 BF 451991-94 BF 50/50A1995 & Newer
 BF 401995 & Newer

BOAT DESCRIPTION/LENGTH	 HIGH PERFORMANCE ALUMINUM PROPELLERS				 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				
	3-BLADE		4-BLADE		STD 3-BLADE				
	Dia.	Rot. Pitch	Part No.	Dia.	Rot. Pitch	Part No.	Dia.	Rot. Pitch	Part No.
				11-1/2	R 8	992401			
				11-1/2	R 9	992402			
19-21' - AL, SK				11-1/2	R 10	992403			
17-19' - AL, SK	10-3/8	R 11	992404						
15-17' - AL, SK	10-3/8	R 12	992405				10-3/4	R 12	993405
15-17' - AL, SK	10-3/8	R 13	992406				10-1/2	R 13	993406
14-16' - AL, SK	10-3/8	R 14	992407				10-3/8	R 14	993407
13-15' - AL, SK	10	R 15	992408				10-1/8	R 15	993408
12-14' - AL, SK	10	R 16	992409						



Apollo XHS Stainless Steel

Drop-In Hub
 Use XHS™ Hub Kit **113**
 Refer to pages 39-40 for more details.



BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS											 BALLISTIC				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
	19-21' - AL, SK	12-1/4	R	10	3	AL	58130-ZV5-860ZA	032045								
19-21' - AL, SK	12-1/4	R	10	3	AL		031072									
17-19' - AL, SK	12	R	11	3	AL		032044									
16-17' - AL, SK	11-3/8	R	12	3	AL	58130-ZV5-850ZA	032043	10-1/2	R	12	033094					
15-17' - AL, SK	11-1/8	R	13	3	AL	58130-ZV5-000ZA	032042	10-1/2	R	13	033095	10-1/8	R	13	3	395929
14-16' - AL, SK	11-1/4	R	14	3	AL		032041	10-1/2	R	14	033096					
13-15' - AL, SK	11	R	15	3	AL	58130-ZV5-870ZA	032040	10-1/2	R	15	033097	10-1/8	R	15	3	395930
12-14' - AL, SK	10-3/4	R	16	3	AL		032039									

Rubber Hub Bushing

75-130 HORSEPOWER

Thru Hub Exhaust & 15 Tooth Spline

BF 751995 & Newer BF 1151998 & Newer BF 1301998 & Newer
 BF 901995 & Newer




BOAT DESCRIPTION/LENGTH	 HIGH PERFORMANCE ALUMINUM PROPELLERS				 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				
	3-BLADE		3-BLADE WIDE NEW		STD 3-BLADE				
	Dia.	Rot. Pitch	Part No.	Dia.	Rot. Pitch	Part No.	Dia.	Rot. Pitch	Part No.
				14	R 13	992112			
19-24' - AL, SK	13-3/4	R 15	992103	13-3/4	R 15	992113	13-3/8	R 15	993143
19-24' - AL, SK							13-3/8	L 15	993153
17-20' - AL, SK	13-1/4	R 17	992104	13-1/4	R 17	992114	13-1/4	R 17	993144
17-20' - AL, SK							13-1/4	L 17	993154
16-19' - AL, SK	13	R 19	992105	13	R 19	992115	13-1/8	R 19	993145
16-19' - AL, SK							13-1/8	L 19	993155
15-18' - AL, SK	12-3/4	R 21	992106	12-3/4	R 21	992116	13	R 21	993146
15-18' - AL, SK							13	L 21	993156



Apollo XHS Stainless Steel

Drop-In Hub
 Use XHS™ Hub Kit **102 & 107**
 Refer to pages 39-40 for more details.




Note: For 75-90 HP 1995-1998 engine applications use XHS (Drop-In- Hub) Kit # 102. For 75-90 HP 1999 & Newer, 115 HP and 130 HP 1998 & Newer engine applications, use XHS (Drop-In- Hub) Kit #107. Use Gearcase Adapter Ring supplied with propeller.

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS							 BALLISTIC					 BALLISTIC XL				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
	25' & Up - AL	14	R	11	3	AL	58130-ZW1-W01ZA	031054									
NEW Pontoon	14	R	11	3	AL		031200										
NEW 25' & Up - AL	14	R	12	3	AL		031060										
NEW Pontoon	14	R	12	3	AL		031201										
22' & Up - AL	14	R	13	3	AL	58130-ZW1-W11ZA	031055										
NEW Pontoon	14	R	13	3	AL		031202										
19-24' - AL, SK	13-3/4	R	15	3	AL	58130-ZW1W21ZA	031041	13-5/8	R	15	3	335130					
17-20' - AL, SK	13-1/4	R	17	3	AL	58130-ZW1-W31ZA	031042	13-1/2	R	17	3	335131					
16-19' - AL, SK	13	R	19	3	AL	58130-ZW1-W61ZA	031043	13-3/8	R	19	3	335132					
15-18' - AL, SK	12-3/4	R	21	3	AL	58130-ZW1-W41ZA	031044	13-1/8	R	21	3	335133	13-1/2	R	22	3	335134
Up to 17' - LL	12-1/2	R	23	3	AL	58130-ZW1-W51ZA	031045						13-1/2	R	24	3	335135

Rubber Hub Bushing




135-225 HORSEPOWER Thru Hub Exhaust & 15 Tooth Spline

BF 1352004 & Newer BF 2002003 & Newer BF 2252003 & Newer
 BF 1502004 & Newer

 HIGH PERFORMANCE ALUMINUM PROPELLERS								 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
3-BLADE		4-BLADE		3-BLADE		STD 3-BLADE		LG. DIAMETER 3-BLADE		4-BLADE	
Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.
15-1/4	R 15 992002					14-3/8	R 15 993042				
				14-1/4	L 15 993012	14-3/8	L 15 993052				
15	R 17 992003	15	R 16 992202			14-1/4	R 17 993043	15-1/2	R 17 993023	14-5/8	R 16 993203
						14-1/4	L 17 993053	15-1/2	L 17 993033	14-5/8	L 16 993213
14-1/2	R 19 992004	14-1/2	R 18 992203			14-1/8	R 19 993044	15-1/4	R 19 993024	14-3/8	R 18 993204
				14-1/4	L 19 993014	14-1/8	L 19 993054	15-1/4	L 19 993034	14-3/8	L 18 993214
14-1/4	R 21 992005	14	R 20 992204			14	R 21 993045	14-3/4	R 21 993025	14-1/8	R 20 993205
				14-1/4	L 21 993015	14	L 21 993055	14-3/4	L 21 993035	14-1/8	L 20 993215
14	R 23 992006					13-7/8	R 23 993046	14-5/8	R 23 993026	14	R 22 993206
				14-1/4	L 23 993016	13-7/8	L 23 993056	14-5/8	L 23 993036	14	L 22 993216
				14-1/4	L 25 993017						

Drop-In Hub
 Use XHS™
 Hub Kit
107

Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS						 BALLISTIC				 BALLISTIC XL						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
	CR, HB	16	R	11	3	AL		031021									
CR, HB	16	R	12	3	AL		031063										
CR, HB	16	R	13	3	AL	58130-ZY3-013A	031022										
22-25' - AL	16	R	14	3	AL		031050										
21-24' - AL	15-1/4	R	15	3	AL	58130-ZY3-015A	031023	14-7/8	R	15	3	345131					
20-23' - AL, SK	16	R	16	3	AL		031051										
19-23' - AL, SK	14-1/2	R	17	3	AL	58130-ZY3-017A	031024	14-3/4	R	17	3	345132					
19-23' - AL, SK	15	R	17	3	AL		031064	14-3/4	L	17	3	345162					
19-22' - AL, SK	15-1/2	R	18	3	AL		031052										
18-22' - AL, SK	14	R	19	3	AL	58130-ZY3-019A	031025	14-1/2	R	19	3	345133					
18-22' - AL, SK	14-1/2	R	19	3	AL		031065	14-1/2	L	19	3	345163					
18-20' - AL, SK	13-3/4	R	21	3	AL	58130-ZY3-021A	031026	14-3/8	R	21	3	345134					
18-20' - AL, SK	14-1/4	R	21	3	AL		031066	14-3/8	L	21	3	345164					
17-20' - AL, SK								14-1/4	R	23	3	345135					
17-20' - AL, SK								14-1/4	L	23	3	345165					
Up to 18'	13-3/8	R	25	3	AL		031067	14-1/4	R	25	3	345136					
High Performance													14-1/2	R	22	3	345141
High Performance													14-1/2	R	24	3	345137
High Perf. (EFI Engine)													14	R	24	3	345139
High Performance													14-1/2	R	26	3	345138
High Perf. (EFI Engine)													14	R	26	3	345140
High Performance 4 Blade Propellers																	
50-62 MPH													13-3/4	R	23	4	435135
55-67 MPH													13-3/4	R	25	4	435136
60-72 MPH													13-3/4	R	27	4	435137
Stainless Steel Performance Propellers for Offshore or Heavy Boats																	
18-22' - AL, SK	15-1/4	L	19	3	SS		033029										
17-20' - AL, SK	14-5/8	L	23	3	SS		033033										

Rubber Hub Bushing

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS.

4-10 HORSEPOWER

Thru Hub Exhaust & 8 Tooth Spline

MODEL 401973-75 MODEL 451973-81

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS						
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
Standard Replacement	9	R	9	2	AL	48-47922A10	032021
Lt. Runabouts, LL	9	R	10	2	AL	48-47926A10	032019
14-16' - AL, SK	9	R	7	3	AL	48-47670A10	032020



Rubber Hub Bushing

6-15 HORSEPOWER

Thru Hub Exhaust & 8 Tooth Spline

6, 8, 9.9 HP (2-Stroke)1986 & Newer 10 HP1995 & Newer 15 HP (2 & 4-Stroke)1989 & Newer
 9.9 HP2002 10, 15 HP (Sea Pro/Marathon)1995 & Newer
 Does not include Bigfoot.

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS						
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
16-20' - AL	9-1/4	R	7	3	AL	48-828152A12	032056
14-18' - AL	9	R	9	3	AL	48-828156A12	032052
14-16' - AL	9	R	10-1/2	3	AL	48-828158A12	032050



Rubber Hub Bushing

MERC 20

Thru Hub Exhaust & 8 Tooth Spline

Merc. 201963-81

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS						
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
Standard Replacement	9-7/8	R	11	2	AL	48-33480A1	032135
14-16' - AL, SK	10	R	9	3	AL	48-86962A4	032136



Rubber Hub Bushing

9.9-25 HORSEPOWER

Thru Hub Exhaust & 10 Tooth Spline

9.9, 15 HP (Bigfoot, 4-Stroke)1999 & Newer 20 HP (Mercury)1986 & Newer 25 HP (Mariner 2-Stroke)1985 & Newer
 18 HP (Mercury)1980-85 25 HP (Not 4-Stroke)1980 & Newer 25 HP (Sea Pro/Marathon)

BOAT DESCRIPTION/LENGTH	VORTEX XHS™			
	3-BLADE			
	Dia.	Rot.	Pitch	Part No.
	10-1/2	R	9	992501
	10-1/2	R	10	992502
15-19'	10-1/2	R	11	992503
13-17'	10-1/8	R	12	992504
13-17'	10-1/8	R	13	992505
Up to 14'	10-1/8	R	14	992506



992504
Vortex XHS™ Aluminum Propeller

Drop-In Hub
Use XHS™ Hub Kit **120**
Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS						
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
15-19'	10-3/8	R	11	3	AL	48-19638A40	031049
13-17'	10-3/8	R	13	3	AL	48-19640A40	031048
Up to 14'	10-1/4	R	14-1/2	3	AL	48-19642A40	031047



BALLISTIC				
Dia.	Rot.	Pitch	Bld#	Part No.
10-1/8	R	13	3	305129
10-1/8	R	15	3	305130



Rubber Hub Bushing

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS

15-25 HORSEPOWER • MARINER

Non-Thru Hub & Pin Drive

15 HP1976-81 W151977-85 25 HP1977-79
 15A1979-82 20 HP1976-79

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS						
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
HB, SB	9-1/4	R	7	3	AL	48-96628	012102
12-14' HL	9	R	10	3	AL	48-96625	012011
12-14' - AL, SK	9-1/4	R	11	3	AL	48-96623	012013



Rubber Hub Bushing

25-30 HORSEPOWER • MARINER

Thru Hub Exhaust & 10 Tooth Spline

25 HP1980-84 28 HP1976-79 30 HP1979-90

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS						
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
16-18' - AL, SK	9-7/8	R	9	3	AL	48-81647	022001
14-17' - AL, SK	9-7/8	R	10-1/2	3	AL	48-81649	022002
13-16' - LL	9-3/8	R	12	3	AL	48-82826	022003



Rubber Hub Bushing

25-30 HORSEPOWER • MERCURY

Thru Hub Exhaust & 10 Tooth Spline

25 HP2006 & Newer 30 HP2006 & Newer

BOAT DESCRIPTION/LENGTH	VORTEX ^{XHS}			
	3-BLADE			
	Dia.	Rot.	Pitch	Part No.
16-20' - AL	10-1/2	R	9	992501
14-18' - AL	10-1/2	R	10	992502
14-18' - AL	10-1/2	R	11	992503
14-18' - AL	10-1/8	R	12	992504
12-16' - AL	10-1/8	R	13	992505
12-16' - AL	10-1/8	R	14	992506



992504
Vortex XHS™ Aluminum Propeller

Drop-In Hub
Use XHS™ Hub Kit **122**

Refer to pages 39-40 for more details.

MODELS 402-500 (1974-76), 650, 60 HP

Thru Hub Exhaust & 13 Tooth Spline

MODEL 402-5001974-76 MODEL 6501972-76 60 HP (Mariner)1976

BOAT DESCRIPTION/LENGTH	VORTEX ^{XHS} HIGH PERFORMANCE ALUMINUM PROPELLERS				APOLLO ^{XHS} ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS						
	3-BLADE		4-BLADE		STD 3-BLADE						
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.			
				11-1/2	R	8	992401				
				11-1/2	R	9	992402				
				11-1/2	R	10	992403				
19-22' - AL, SK											
17-19' - AL, SK	10-3/8	R	11	992404							
16-17' - AL, SK	10-3/8	R	12	992405				10-3/4	R	12	993405
14-16' - LL	10-3/8	R	13	992406				10-1/2	R	13	993406
12-14' - LL	10-3/8	R	14	992407				10-3/8	R	14	993407
12-14' - LL	10	R	15	992408				10-1/8	R	15	993408
12-14' - LL	10	R	16	992409							



Drop-In Hub
Use XHS™ Hub Kit **114**

Refer to pages 39-40 for more details.

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

★ Indicates a cupped propeller. ► LIMITED INVENTORY ITEMS.

MODELS 402-500 (1974-76), 650, 60 HP (Continued)

Thru Hub Exhaust & 13 Tooth Spline

MODEL 402-5001974-76 MODEL 6501972-76 60 HP (Mariner)1976

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							RAPTURE				BALLISTIC™ STAINLESS STEEL PROPS				
	ALUMINUM & STAINLESS STEEL PROPS											BALLISTIC				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
19-22' - AL	12-1/4	R	10	3	AL	48-61812A1	032045									
19-22' - AL	12-1/4	R	10	3	AL		★ 031072									
17-19' - AL, SK	12	R	11	3	AL	48-61814A1	032044									
16-17' - AL, SK	11-3/8	R	12	3	AL	48-61816A1	032043	10-1/2	R	12	▶ 033094					
14-16' - LL	11-1/8	R	13	3	AL	48-61818A1	032042	10-1/2	R	13	▶ 033095	10-1/8	R	13	3	395929
12-14' - LL	11-1/4	R	14	3	AL	48-61820A1	032041	10-1/2	R	14	▶ 033096					
12-14' - LL	11	R	15	3	AL	48-61822A1	032040	10-1/2	R	15	▶ 033097	10-1/8	R	15	3	395930
12-14' - LL	10-3/4	R	16	3	AL	48-61824A1	▶ 032039									


Rubber Hub Bushing

Use OEM fwd washer 65758 aft washer 62124

25-70 HORSEPOWER

Thru Hub Exhaust & 13 Tooth Spline

MODEL 402-500-7001977-84 40 HP (2 & 4-Stroke) (Not Bigfoot) ..1977 & Newer 55 HP (Mercury/Sea Pro/Marathon) ...1995 & Newer
 25 HP Bigfoot (4-Stroke)1999-2005 40 HP (Sea Pro/Marathon)1977 & Newer 60 HP (Not Bigfoot or Sea Pro)1978 & Newer
 30 HP (2 & 4-Stroke)1994-2005 45 HP1986-89 60 HP (2-Stroke)1978 & Newer
 30 HP (Sea Pro/Marathon)1994 & Newer 48 HP (Mariner)All Years 70 HPThru 1983
 35 HP1984-89 50 HP (2 & 4-Stroke) (Not Bigfoot) ..1977 & Newer

BOAT DESCRIPTION/LENGTH	VORTEX XHS™ HIGH PERFORMANCE ALUMINUM PROPELLERS								APOLLO XHS™ ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS											
	3-BLADE				4-BLADE				STD 3-BLADE				 <p>Apollo XHS Stainless Steel</p>							
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.								
					11-1/2	R	8	992401												
					11-1/2	R	9	992402												
					11-1/2	R	10	992403												
16-18' - AL, SK	10-3/8	R	11	992404								10-3/4	R	12	993405					
15-17' - AL, SK	10-3/8	R	12	992405								10-1/2	R	13	993406					
14-17' - AL, SK	10-3/8	R	13	992406								10-3/8	R	14	993407					
14-16' - LL	10-3/8	R	14	992407								10-1/8	R	15	993408					
Up to 15' - LL	10	R	15	992408																
Up to 15' - LL	10	R	16	992409																

Drop-In Hub

Use XHS™ Hub Kit 114

Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							RAPTURE				BALLISTIC™ STAINLESS STEEL PROPS				
	ALUMINUM & STAINLESS STEEL PROPS											BALLISTIC				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
19' & Up	12-1/2	R	8	3	AL	48-42738A10	032141									
17-19' - AL, SK	11-1/4	R	10	3	AL	48-73132A40	031015									
16-18' - AL, SK	12	R	10-1/2	3	AL	48-42740A10	032142									
16-18' - AL, SK	10-7/8	R	11	3	AL	48-85632A40	031053									
15-17' - AL, SK	10-3/4	R	12	3	AL	48-816702A40	031056	10-1/2	R	12	▶ 033089					
15-17' - AL, SK	10-5/8	R	12	3	AL	48-73134A40	031016									
14-17' - AL, SK	10-1/2	R	13	3	AL	48-816704A40	031057	10-1/2	R	13	▶ 033090	10-1/8	R	13	3	395129
14-17' - AL, SK	10-3/8	R	13	3	AL	48-73136A40	031017									
14-16' - LL	10-3/8	R	14	3	AL	48-816706A40	031058	10-1/2	R	14	▶ 033091					
14-16' - LL	10-1/4	R	14	3	AL	48-73138A40	031018									
Up to 15' - LL	10-1/8	R	15	3	AL	48-73140A40	031019	10-1/2	R	15	▶ 033092	10-1/8	R	15	3	395130
Up to 15' - LL	10	R	17	3	AL	48-73144A40	031020									

Rubber Hub Bushing

Use OEM fwd washer 73345A1 aft washer 14-76281

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

★ Indicates a cupped propeller. ▶ LIMITED INVENTORY ITEMS.

40-140 HORSEPOWER
Thru Hub Exhaust & 15 Tooth Spline

40, 50 HP (Bigfoot, 4-Stroke)All Years	90 HP (2 & 4-Stroke)1978 & Newer	▼ 650 2 Cyl.Thru 1971
60 HP (Bigfoot /Sea Pro Only, not 4-Stroke) 1995 & Newer	100 HP1988 & Newer	▼ 800-850 6 Cyl.Thru 1972
60 HP (Sea Pro/Marathon)1995 & Newer	115 HP1978 & Newer	▼ 800-850 4 Cyl.1972-77
70 HP1987-89	115 HP 4-Stroke2001 & Newer	▼ 900-1500 ModelsThru 1977
75 HP (2 & 4-Stroke)1984 & Newer	125 HP1994 & Newer	▼ 80 HP (Yamaha)1977
75 HP (Sea Pro/Marathon)All Years	140 HP (Includes Sea Pro & Offshore) 1978 - 81	▼ 80 HP (Mariner)1978-83
80 HP1978-89	▼ 650 4 Cyl. (2:1)1961-70	

BOAT DESCRIPTION/LENGTH	VORTEX ² XHS™ HIGH PERFORMANCE ALUMINUM PROPELLERS								APOLLO ² XHS™ ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
	3-BLADE				3-BLADE WIDE NEW				STD 3-BLADE			
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.
16-18' - Runabouts, SK	13-3/4	R	15	992103	14	R	13	992112	13-3/8	R	15	993143
16-18' - Runabouts, SK									13-3/8	L	15	993153
15-17' - Runabouts, SK	13-1/4	R	17	992104	13-1/4	R	17	992114	13-1/4	R	17	993144
15-17' - Runabouts, SK									13-1/4	L	17	993154
14-16' - Runabouts, SK	13	R	19	992105	13	R	19	992115	13-1/8	R	19	993145
14-16' - Runabouts, SK									13-1/8	L	19	993155
13-15' - Runabouts, SK	12-3/4	R	21	992106	12-3/4	R	21	992116	13	R	21	993146
13-15' - Runabouts, SK									13	L	21	993156



Drop-In Hub
 Use XHS™ Hub Kit **102**
 Use Gearcase Adapter Ring supplied with propeller.
 Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH ² ALUMINUM & STAINLESS STEEL PROPS							BALLISTIC ² STAINLESS STEEL PROPS									
	ALUMINUM & STAINLESS STEEL PROPS							BALLISTIC									
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
25' & Up - AL	14	R	11	3	AL	48-77338A40	031054										
NEW ← Pontoon	14	R	11	3	AL	48-77338CP1	◆ 031200										
NEW ← 25' & Up - AL	14	R	12	3	AL		031060										
NEW ← Pontoon	14	R	12	3	AL		◆ 031201										
22' & Up - AL	14	R	13	3	AL	48-77340A40	031055										
NEW ← Pontoon	14	R	13	3	AL	48-77340CP1	◆ 031202										
19-24' - AL, SK	13-3/4	R	15	3	AL	48-77342A40	031041	13-5/8	R	15	3	◆ 335130					
17-20' - AL, SK	13-1/4	R	17	3	AL	48-77344A40	031042	13-1/2	R	17	3	◆ 335131					
16-19' - AL, SK	13	R	19	3	AL	48-77346A40	031043	13-3/8	R	19	3	◆ 335132					
15-18' - AL, SK	12-3/4	R	21	3	AL	48-77348A40	031044	13-1/8	R	21	3	◆ 335133					
Lt. Runabouts	12-1/2	R	23	3	AL	48-77350A40	◆ 031045										
High Performance													13-12	R	22	3	◆ 335134
High Performance													13-1/2	R	24	3	◆ 335135

Rubber Hub Bushing
 Use OEM fwd washer 13191 tab washer 14-816629 or MWC Kit 990332 or 9660-1
 See Page 22 for details.

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

⚠ To avoid damage or injury, replace standard trim tab with trim tab 822777A1. ▶ LIMITED INVENTORY ITEMS.
 ▼ When using rubber hub propeller, use thrust washer 13191A1. ◆ New Pontoon Boat Propellers - Extra Cup!

135-300 HORSEPOWER • V-6 GEARCASE




Thru Hub Exhaust & 15 Tooth Spline

135 HP .....1987 & Newer	220 HP .....1987-88	275 HP .....1990-94
150 HP .....1978 & Newer	225 HP .....1980 & Newer	300 HP .....1983, 1999 & Newer
175 HP .....1978 & Newer	225 HP (Sea Pro/Marathon) .....All Years	3.4 Litre .....1984-86
200 HP .....1978 & Newer	250 HP .....1994 & Newer	* For engines 300 HP or higher, use "high horsepower sleeve".

Includes DFI, EFI, Magnum, Offshore, Optimax, Sea Pro & XRI

See Page 39 for more details.




Use thrust washer 13171Add 4" pitch for twin motors

 HIGH PERFORMANCE ALUMINUM PROPELLERS								 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS																			
3-BLADE				4-BLADE				3-BLADE				STD 3-BLADE				LG. DIAMETER 3-BLADE				4-BLADE							
Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.
15-1/4	R	15	992002									14-3/8	R	15	993042												
								14-1/4	L	15	993012					14-3/8	L	15	993052								
15	R	17	992003	15	R	16	992202					14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203				
												14-1/4	L	17	993053	15-1/2	L	17	993033	14-5/8	L	16	993213				
14-1/2	R	19	992004	14-1/2	R	18	992203					14-1/8	R	19	993044	15-1/4	R	19	993024	14-3/8	R	18	993204				
								14-1/4	L	19	993014					15-1/4	L	19	993034	14-3/8	L	18	993214				
14-1/4	R	21	992005	14	R	20	992204					14	R	21	993045	14-3/4	R	21	993025	14-1/8	R	20	993205				
								14-1/4	L	21	993015					14-3/4	L	21	993035	14-1/8	L	20	993215				
14	R	23	992006					14-1/4	L	23	993016	13-7/8	R	23	993046	14-5/8	R	23	993026	14	R	22	993206				
								14-1/4	L	23	993016	13-7/8	L	23	993056	14-5/8	L	23	993036	14	L	22	993216				
								14-1/4	L	25	993017																

Drop-In Hub

Use XHS™
Hub Kit
102

Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS						 BALLISTIC					 BALLISTIC XL					
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
	CR, HB	16	R	11	3	AL	48-78112A40	031021									
CR, HB	16	R	12	3	AL	48-16436A40	031063										
CR, HB	16	R	13	3	AL	48-78114A40	031022										
22-25' - AL	16	R	14	3	AL	48-16438A40	031050										
21-24' - AL	15-1/4	R	15	3	AL	48-78116A40	031023	14-7/8	R	15	3	345131					
20-23' - AL, SK	16	R	16	3	AL	48-16440A40	031051										
19-23' - AL, SK	14-1/2	R	17	3	AL	48-78118A40	031024	14-3/4	R	17	3	345132					
19-23' - AL, SK	15	R	17	3	AL	48-832828A45	031064	14-3/4	L	17	3	345162					
19-22' - AL, SK	15-1/2	R	18	3	AL	48-11324A45	031052										
18-22' - AL, SK	14	R	19	3	AL	48-78120A40	031025	14-1/2	R	19	3	345133					
18-22' - AL, SK	14-1/2	R	19	3	AL	48-382830A45	031065	14-1/2	L	19	3	345163					
18-20' - AL, SK	13-3/4	R	21	3	AL	48-78122A40	031026	14-3/8	R	21	3	345134					
18-20' - AL, SK	14-1/4	R	21	3	AL	48-832832A45	031066	14-3/8	L	21	3	345164					
17-20' - AL, SK								14-1/4	R	23	3	345135					
17-20' - AL, SK								14-1/4	L	23	3	345165					
Up to 18'	13-3/8	R	25	3	AL	48-78126A40	031067	14-1/4	R	25	3	345136					
High Performance													14-1/2	R	22	3	345141
High Performance													14-1/2	R	24	3	345137
High Perf. (EFI Engine)													14	R	24	3	345139
High Performance													14-1/2	R	26	3	345138
High Perf. (EFI Engine)													14	R	26	3	345140
High Performance 4 Blade Propellers																	
50-62 MPH													13-3/4	R	23	4	435135
55-67 MPH													13-3/4	R	25	4	435136
60-72 MPH													13-3/4	R	27	4	435137
Stainless Steel Performance Propellers for Offshore or Heavy Boats																	
18-22' - AL, SK	15-1/4	L	19	3	SS	48-13701A41	033029										
17-20' - AL, SK	14-5/8	L	23	3	SS	48-13705A41	033033										

Rubber Hub Bushing

Use OEM fwd washer 12-835467 aft wash 12-31211A3 tab washer 14-816629 or MWC Kit 990312 or 9661-1

See Page 22 for details.

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS.

⌘ To avoid damage or injury, replace standard trim tab with trim tab 822777A1.

Replacing a Flo-Torq™ Hub with Michigan Propellers

Replacing a Flo-Torq II™ Drop In Hub Design with Michigan Propellers

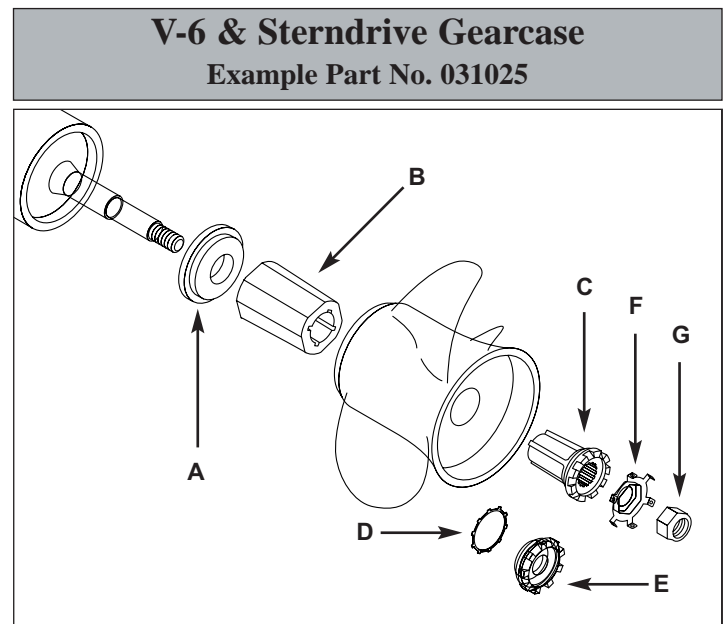
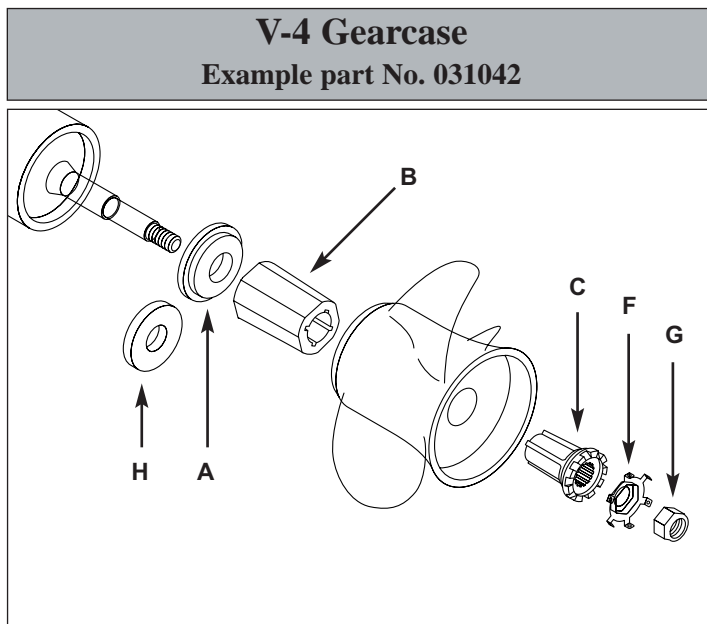
Propellers supplied from Mercury™, Mariner™ and Force® since 1996 come with Flo-Torq II™ drop in hubs equipped with attaching hardware A,B,C,F & G per the following illustrations. When switching to Michigan Match™ or Rapture™ propellers, change the attaching hardware set up as follows.

When converting to a Michigan Propeller on a **V-4 gearcase**, eliminate B & C, replace A with H and use existing hardware F & G.

When converting to a Michigan Propeller on a **V-6 gearcase**, eliminate B & C and use A, D, E, F & G as attaching hardware (D & E replaces C). Be sure to use high-performance trim tab 822777A1 for Rapture™ installations.

Michigan Wheel offers the following attaching hardware kits for these installations:

- 990312 Includes D & E for the V-6 gearcase.
- 990332 Includes Forward Thrust Washer H for V-4 gearcase.
- 9661-1 Includes A, D, E, F & G for the V-6 gearcase.
- 9660-1 Includes H, F & G for the V-4 gearcase.



- A) 12-835467 Forward Thrust Washer
- B) 827703 Plastic Drive Sleeve
- C) 826074-1 Metal Sleeve adapter
- D) 13-42351-1 Conductivity (star) washer

- E) 12-31211A2 Aft Castle Thrust Washer
- F) 14-816629 Locking Tab Washer
- G) 11-827614 Shaft Prop Nut
- H) 13191A1 Forward Thrust Washer

9.9-18 HORSEPOWER

Thru Hub Exhaust & 14 Tooth Spline

9.9 HP1984 & Newer 12 HP1985-88 15, 18 HP1985 & Newer
 9.9 HP (4-Stroke)2000 & Newer 15 HP (4-Stroke)2000 & Newer 18 HP (4-Stroke)2001 & Newer

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS						
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
12-16' - AL	9.2	R	8.4	3	AL	362-64102-0	142017



Rubber Hub Bushing

25-30 HORSEPOWER

Thru Hub Exhaust & 10 Tooth Spline

25 HP1986 & Newer 30 HP1985 & Newer

BOAT DESCRIPTION/LENGTH	VORTEX XHS™			
	3-BLADE			
	Dia.	Rot.	Pitch	Part No.
16-20' - AL	10-1/2	R	9	992501
14-18' - AL	10-1/2	R	10	992502
14-18' - AL	10-1/2	R	11	992503
14-18' - AL	10-1/8	R	12	992504
12-16' - AL	10-1/8	R	13	992505
12-16' - AL	10-1/8	R	14	992506



992504
Vortex XHS™ Aluminum Propeller

Drop-In Hub

Use XHS™ Hub Kit 122

Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS						
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
16-20' - AL	10.2	R	8.3	3	AL	346-64106-5	142020
12-16' - AL							10-1/8 R 13 3 305429
12-16' - AL							10-1/8 R 15 3 305430



Rubber Hub Bushing

35-50 HORSEPOWER

Thru Hub Exhaust & 13 Tooth Spline

35 HP (35B only)Thru 1984 40 HP1984 & Newer 50 HP1992 & Newer
 50 HP (50D only)1991

BOAT DESCRIPTION/LENGTH	VORTEX XHS™ HIGH PERFORMANCE ALUMINUM PROPELLERS				APOLLO XHS™ ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS						
	3-BLADE		4-BLADE		STD 3-BLADE						
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.			
				11-1/2	R	8	992401				
				11-1/2	R	9	992402				
20' & Up				11-1/2	R	10	992403				
17-21' - AL	10-3/8	R	11	992404							
16-17' - AL	10-3/8	R	12	992405				10-3/4	R	12	993405
14-16' - AL	10-3/8	R	13	992406				10-1/2	R	13	993406
12-14' - AL	10-3/8	R	14	992407				10-3/8	R	14	993407
Up to 13' - AL	10	R	15	992408				10-1/8	R	15	993408
	10	R	16	992409							



Apollo XHS Stainless Steel

Drop-In Hub

Use XHS™ Hub Kit 116

Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS						
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
20' & Up - AL							10-1/2 R 10 ▶ 143001
17-21' - AL	10.6	R	11.3	3	AL	361-64113-0	142001
16-17' - AL	10.6	R	11.7	3	AL	361-64114-0	▶ 142002
14-16' - AL							10-1/2 R 13 ▶ 143003
12-14' - AL	10.2	R	13.9	3	AL	348-64103-0	▶ 142004
Up to 13' - AL							10-1/2 R 15 ▶ 143005






142001

Rubber Hub Bushing

▶ LIMITED INVENTORY ITEMS.




50-70 HORSEPOWER Thru Hub Exhaust & 13 Tooth Spline

50 HP (50C only)1987-91 60A1986 & Newer 70A & 70B1981 & Newer
55 HP1981-88

BOAT DESCRIPTION/LENGTH	 HIGH PERFORMANCE ALUMINUM PROPELLERS								 992302 Vortex XHS™ Aluminum Propeller	 992402 Vortex XHS™ Aluminum Propeller
	3-BLADE				4-BLADE					
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.		
				11-1/2	R	8	992401			
				11-1/2	R	9	992402			
				11-1/2	R	10	992403			
15-18' -AL, SK	11-3/4	R	13	992301						
14-17' -AL, SK	11-3/4	R	15	992302						
13-15' -AL, SK	11-3/4	R	17	992303						

Drop-In Hub
Use XHS™
Hub Kit
112



Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	 AMERICAN MATCH REPLACEMENT PROPELLERS							 RAPTURE				 BALLISTIC™ STAINLESS STEEL PROPS							
	ALUMINUM & STAINLESS STEEL PROPS														BALLISTIC				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.			
CR, HB	11.6	R	11	3	AL	353-64103-0	▶ 142005	11-3/4	R	11	▶ 013080								
15-18' -AL, SK	11.5	R	13	3	AL	353-64105-0	▶ 142006	11-3/4	R	13	▶ 013081								
14-17' -AL, SK	11	R	15	3	AL	353-64107-0	▶ 142007	11-3/4	R	15	▶ 013082	12-3/8	R	15	3	325030			
13-15' -AL, SK	10.7	R	16.4	3	AL	353-64108-0	▶ 142008												
13-15' -AL, SK	11-3/4	R	17	3	SS		▶ 013026	11-3/4	R	17	▶ 013083	12	R	17	3	325031			
12-14' -AL, SK	10.9	R	17.6	3	AL	353-64109-0	▶ 142009												
12-14' -AL, SK	11-1/4	R	19	3	SS		▶ 013032	11-3/4	R	19	▶ 013084								

Rubber Hub Bushing

60-140 HORSEPOWER Thru Hub Exhaust & 15 Tooth Spline

60C (Large Gearcase)Thru 1999 90 HP1987 & Newer 120 HP1988 & Newer
70C (Larger Gearcase)All years 115 HP1992 & Newer 140 HP1988 & Newer



BOAT DESCRIPTION/LENGTH	 HIGH PERFORMANCE ALUMINUM PROPELLERS								 APOLLO ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				
	3-BLADE				3-BLADE WIDE NEW				STD 3-BLADE				
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	
				14	R	13	992112						
19-22' - Runabouts, SK	13-3/4	R	15	992103	13-3/4	R	15	992113	13-3/8	R	15	993143	
19-22' - Runabouts, SK								13-3/8	L	15	993153		
18-21' - Runabouts, SK	13-1/4	R	17	992104	13-1/4	R	17	992114	13-1/4	R	17	993144	
18-21' - Runabouts, SK								13-1/4	L	17	993154		
17-20' - Runabouts, SK	13	R	19	992105	13	R	19	992115	13-1/8	R	19	993145	
17-20' - Runabouts, SK								13-1/8	L	19	993155		
15-18' - Runabouts, SK	12-3/4	R	21	992106	12-3/4	R	21	992116	13	R	21	993146	
15-18' - Runabouts, SK								13	L	21	993156		



Drop-In Hub
Use XHS™
Hub Kit
109

Use Gearcase Adapter Ring supplied with propeller.

Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	 AMERICAN MATCH REPLACEMENT PROPELLERS							 BALLISTIC™ STAINLESS STEEL PROPS									
	ALUMINUM & STAINLESS STEEL PROPS												BALLISTIC				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.					
20-24' -AL, SK								13-5/8	R	15	3	335930					
17-19' -AL, SK								13-1/2	R	17	3	335931					
16-18' -AL, SK								13-3/8	R	19	3	335932					
15-18' -AL, SK	12.5	R	19.9	3	AL	3B7-64545-0	▶ 142013										
15-18' -AL, SK								13-1/8	R	21	3	335933					







Rubber Hub Standard OEM Replacement Aluminum



Rubber Hub Bushing

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS. ◆ New Pontoon Boat Propellers - Extra Cup!

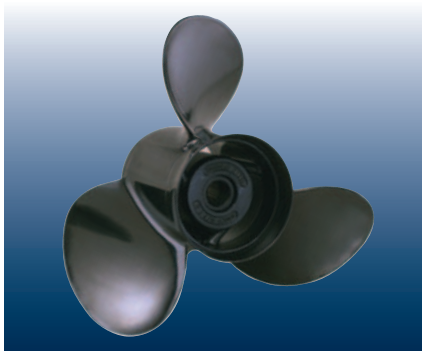
9.9-15 HORSEPOWER									
Thru Hub Exhaust & 10 Tooth Spline									
DT 9.9	.....1983-87	DT 15	.....1983-88	DT 15(4-Stroke)	.....1997 & Newer			
DF 9.9 (4-Stroke)	.....1997 & Newer	DT 15C	.....1989-97					
BOAT DESCRIPTION/LENGTH									
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
14-18' - AL	9-1/4	R	9	3	AL	58100-93723-019	062016		Rubber Hub Bushing
14-16' - AL	9-1/4	R	11	3	AL	58100-93743-019	062017		

25-30 HORSEPOWER									
Thru Hub Exhaust & 10 Tooth Spline									
DT 25C	.....1989 & Newer	DT 30, 30C	.....1987-97	DF 25 (4-Stroke)	.....2000 & Newer			
DT 20, 25	.....1987-88	DT 30 @	.....1983-86	DF 30 (4-Stroke)	.....2000 & Newer			
DT 20, 25 @	.....1983-86							
BOAT DESCRIPTION/LENGTH									
	3-BLADE								
	Dia.	Rot.	Pitch	Part No.					
		10-1/2	R	9	992501				
		10-1/2	R	10	992502				
	16-18' - AL	10-1/2	R	11	992503				
14-16' - AL	10-1/8	R	12	992504					
14-16' - AL	10-1/8	R	13	992505					
	10-1/8	R	14	992506					
									Drop-In Hub Use XHS™ Hub Kit 121 Refer to pages 39-40 for more details.
				992504 Vortex XHS™ Aluminum Propeller					

ALUMINUM & STAINLESS STEEL PROPS													
BOAT DESCRIPTION/LENGTH													
	ALUMINUM & STAINLESS STEEL PROPS												
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.						
14-16' - AL							10-1/8	R	13	3	305529		Rubber Hub Bushing
14-16' - AL							10-1/8	R	15	3	305530		

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless




@ Use stopper 57632-96400 (for rubber hub prop only). ▶ LIMITED INVENTORY ITEMS.






35-65 HORSEPOWER

Thru Hub Exhaust & 13 Tooth Spline

DT 35C .....1987-90	DT 55 .....1985-96	DF 40 (4-Stroke) .....1999 & Newer
DT 40 .....1983 & Newer	DT 60 .....1983-84	DF 50 (4-Stroke) .....1999 & Newer
DT 50 & 50M .....1983-84	DT 65 .....1985-97	

BOAT DESCRIPTION/LENGTH	 HIGH PERFORMANCE ALUMINUM PROPELLERS								 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS							
	3-BLADE				4-BLADE				STD 3-BLADE				 Apollo XHS Stainless Steel			
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.				
				11-1/2	R	8	992401									
				11-1/2	R	9	992402									
18-21' - AL				11-1/2	R	10	992403									
17-19' - AL	10-3/8	R	11	992404												
16-18' - LL	10-3/8	R	12	992405				10-3/4	R	12	993405					
14-16' - LL	10-3/8	R	13	992406				10-1/2	R	13	993406					
12-14' - LL	10-3/8	R	14	992407				10-3/8	R	14	993407					
12-14' - LL	10	R	15	992408				10-1/8	R	15	993408					
12-14' - LL	10	R	16	992409												

Drop-In Hub
Use XHS™ Hub Kit **115**
Refer to pages 39-40 for more details.




BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS								 RAPTURE				 BALLISTIC				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	
	18-21' - AL	12-1/4	R	10	3	AL	58100-95212-019	032045	10-1/2	R	10	033093					
18-21' - AL	12-1/4	R	10	3	AL		031072										
17-19' - AL	12	R	11	3	AL	58100-95222-019	032044										
16-18' - LL	11-3/8	R	12	3	AL	58100-95393-019	032043	10-1/2	R	12	033094						
14-16' - LL	11-1/8	R	13	3	AL	58100-94313-019	032042	10-1/2	R	13	033095	10-1/8	R	13	3	395929	
12-14' - LL	11-1/4	R	14	3	AL	58100-95353-019	032041	10-1/2	R	14	033096						
12-14' - LL	11	R	15	3	AL	58100-95363-019	032040	10-1/2	R	15	033097	10-1/8	R	15	3	395930	
12-14' - LL	10-3/4	R	16	3	AL	58100-95373-019	032039										

Rubber Hub Bushing



60-140 HORSEPOWER

Thru Hub Exhaust & 13 Tooth Spline

DF60, 70 + (4-Stroke) .....1998 & Newer	DT 85 ++1992 & Newer	DT 100 +1989 & Newer
DT 75 ++1992-97	DT 85 #1979-91	DT 115, 140 ++1992 & Newer
DT 75 #1983-91	DT 90 +1989-97	DT 115, 140 #1981-91

BOAT DESCRIPTION/LENGTH	 HIGH PERFORMANCE ALUMINUM PROPELLERS								 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS							
	3-BLADE				3-BLADE WIDE NEW				STD 3-BLADE				 Apollo XHS Stainless Steel			
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.				
				14	R	13	992112									
19-22' - Runabouts, SK	13-3/4	R	15	992103	13-3/4	R	15	992113	13-3/8	R	15	993143				
19-22' - Runabouts, SK									13-3/8	L	15	993153				
18-21' - Runabouts, SK	13-1/4	R	17	992104	13-1/4	R	17	992114	13-1/4	R	17	993144				
18-21' - Runabouts, SK									13-1/4	L	17	993154				
17-20' - Runabouts, SK	13	R	19	992105	13	R	19	992115	13-1/8	R	19	993145				
17-20' - Runabouts, SK									13-1/8	L	19	993155				
15-18' - Runabouts, SK	12-3/4	R	21	992106	12-3/4	R	21	992116	13	R	21	993146				
15-18' - Runabouts, SK									13	L	21	993156				

Drop-In Hub
Use XHS™ Hub Kit **110**
Do NOT use Gearcase Adapter Ring supplied with propeller.
Refer to pages 39-40 for more details.

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS								 061002			
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Part No.	
	17-19' - AL, SK	13-3/4	R	15	3	AL	58100-95500-019	061001				
15-18' - AL, SK	13-1/4	R	17	3	AL	58100-95511-019	061002					

Rubber Hub Bushing



Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless


- ★ Indicates a cupped propeller.
- ◆ LIMITED INVENTORY ITEMS.
- ◆ New Pontoon Boat Propellers - Extra Cup!
- + Use stopper 57632-87E10, spacer 57633-95501, washer 09160-18028 (for rubber hub prop only).
- ++ Use stopper 57635-95510, spacer 57633-95501, washer 09160-18028 (for rubber hub prop only).
- # Requires stopper 57635-95503, spacer 57633-95501, lock washer 09160-18028 (supplied with engine). (For rubber hub prop only.)

90, 115 & 140 HORSEPOWER (4-STROKE)

Thru Hub Exhaust & 15 Tooth Spline

DF 90 (4-Stroke)2001 & Newer	DF 115 (4-Stroke)2001 & Newer	DF 140 (4-Stroke)2002 & Newer
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BOAT DESCRIPTION/LENGTH	 HIGH PERFORMANCE ALUMINUM PROPELLERS				 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				
	3-BLADE		3-BLADE WIDE NEW		STD 3-BLADE				
	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	
				14	R 13	992112			
19-22' - Runabouts, SK	13-3/4	R 15	992103	13-3/4	R 15	992113	13-3/8	R 15	993143
19-22' - Runabouts, SK							13-3/8	L 15	993153
18-21' - Runabouts, SK	13-1/4	R 17	992104	13-1/4	R 17	992114	13-1/4	R 17	993144
18-21' - Runabouts, SK							13-1/4	L 17	993154
17-20' - Runabouts, SK	13	R 19	992105	13	R 19	992115	13-1/8	R 19	993145
17-20' - Runabouts, SK							13-1/8	L 19	993155
15-18' - Runabouts, SK	12-3/4	R 21	992106	12-3/4	R 21	992116	13	R 21	993146
15-18' - Runabouts, SK							13	L 21	993156





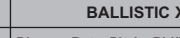
Apollo XHS Stainless Steel

Drop-In Hub

Use XHS™ Hub Kit **125 & 126**

Refer to pages 39-40 for more details.

Note: For 90 & 115 HP 4-Stroke applications use XHS™ (Drop-in Hub) Kit # 125. For 40 HP 4-Stroke applications use XHS™ (Drop-in Hub) Kit # 126. Use Gearcase Adapter Ring supplied with propeller.




BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS						 BALLISTIC					 BALLISTIC XL					
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
	25' - AL	14	R	11	3	AL		101036									
22' - AL	13-5/8	R	13	3	AL		101031										
20-24' - AL, SK	13-1/2	R	15	3	AL		101032	13-5/8	R	15	3	335930					
17-19' - AL, SK	13-1/4	R	17	3	AL	58100-90J00-019	101033	13-1/2	R	17	3	335931					
16-18' - AL, SK	13	R	19	3	AL	58100-90J10-019	101034	13-3/8	R	19	3	335932					
15-18' - AL, SK	12-5/8	R	21	3	AL	58100-90J20-019	101035	13-1/8	R	21	3	335933					
High Performance													13-1/2	R	22	3	335934
High Performance													13-1/2	R	24	3	335935

Rubber Hub Bushing

150-300 HORSEPOWER

Thru Hub Exhaust & 15 Tooth Spline

DT 1501986 & Newer	DT 2001986 & Newer	DT 2502004 & Newer
DF 1502006 & Newer	DF 2002006 & Newer	DF 2502006 & Newer
DT 1751986-92	DT 2251990 & Newer	DF 3002006 & Newer
DF1752006 & Newer	DF 2252006 & Newer	

 HIGH PERFORMANCE ALUMINUM PROPELLERS								 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				
3-BLADE		4-BLADE		3-BLADE		STD 3-BLADE		LG. DIAMETER 3-BLADE		4-BLADE		
Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	
15-1/4	R 15	992002				14-3/8	R 15	993042				
				14-1/4	L 15	993012	14-3/8	L 15	993052			
15	R 17	992003	15	R 16	992202		14-1/4	R 17	993043	15-1/2	R 17	993023
							14-1/4	L 17	993053	15-1/2	L 17	993033
14-1/2	R 19	992004	14-1/2	R 18	992203		14-1/8	R 19	993044	15-1/4	R 19	993024
							14-1/4	L 19	993054	15-1/4	L 19	993034
14-1/4	R 21	992005	14	R 20	992204		14	R 21	993045	14-3/4	R 21	993025
							14	L 21	993055	14-1/8	R 20	993205
							14-1/4	L 21	993056	14-3/4	L 21	993035
14	R 23	992006					13-7/8	R 23	993046	14-5/8	R 23	993026
							14-1/4	L 23	993016	14	R 22	993206
							13-7/8	L 23	993056	14-5/8	L 23	993036
										14	L 22	993216

Drop-In Hub

Use XHS™ Hub Kit **104**

Refer to pages 39-40 for more details.



Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS.

6-8 HORSEPOWER

Thru Hub Exhaust & 7 Tooth Spline



6 HP1986 & Newer 8 HP1986 & Newer

BOAT DESCRIPTION/LENGTH								102002 	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
General Usage	8-1/2	R	7-1/2	3	AL	6G1-45943-00-EL	102002		

8 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive



8 HP1976-83

BOAT DESCRIPTION/LENGTH								012008 	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
14-16' - AL	8-1/4	R	8	3	AL		012008		

9.9-15 HORSEPOWER

Thru Hub Exhaust & 8 Tooth Spline



9.9 HP1984 & Newer 15 HP1984 & Newer

BOAT DESCRIPTION/LENGTH								102003 	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
13-17' - HL	9-1/4	R	8	3	AL	683-45947-00-EL	102003		
12-15' - AL	9-1/4	R	9	3	AL	683-45945-00-EL	102004		
12-15' - AL	9-1/4	R	10-1/2	3	AL	683-45943-00-EL	102005		

15-28 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

15A & W15 HP1976-83 25 HP 2 Cyl.1977-79 28 HP1976-78
20 HP1976-78

BOAT DESCRIPTION/LENGTH								012011 	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
HB, SB	9-1/4	R	7	3	AL	650-45943-01-36	012102		
12-14' - HL	9	R	10	3	AL	651-45947-00-36	012011		
12-14' - AL	9-1/4	R	11	3	AL	653-45941-01-36	012013		

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

20-30 HORSEPOWER Thru Hub Exhaust & 10 Tooth Splines

20 HP .....1996-97	25 HP (4-Stroke) .....2001	30 HP .....1979 & Newer
25 HP .....1980 & Newer	30 HP (4-Stroke) .....2001	

BOAT DESCRIPTION/LENGTH	VORTEX ^{XHS™} 3-BLADE			
	Dia.	Rot.	Pitch	Part No.
16-18' - AL, SK	10-1/2	R	9	992501
14-17' - AL, SK	10-1/2	R	10	992502
14-17' - AL, SK	10-1/2	R	11	992503
13-16' - LL	10-1/8	R	12	992504
14-17'	10-1/8	R	13	992505
13-15'	10-1/8	R	14	992506



992504
Vortex XHS™
Aluminum Propeller

Drop-In Hub
Use XHS™
Hub Kit
123

Refer to pages 39-40
for more details

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
16-18' - AL, SK	9-7/8	R	9	3	AL	664-45941-01-EL	022001
14-17' - AL, SK	9-7/8	R	10-1/2	3	AL	664-45945-00-EL	022002
13-16' - LL	9-3/8	R	12	3	AL	664-45954-00-EL	022003
14-17' - General Usage							10-1/8 R 13 3 305929
14-17' - General Usage							10-1/8 R 15 3 305930



022001

Rubber
Hub
Bushing

40-60 HORSEPOWER Thru Hub Exhaust & 13 Tooth Splines

40 HP .....1984 & Newer	55 HP .....1976-95	FS 50 (4-Stroke) .....1995 & Newer
48 HP .....1995 & Newer	60 HP .....1976-91	FS 60 (4-Stroke) .....1999 & Newer
50 HP (not T50) .....1984 & Newer	FS 40 (4-Stroke) .....1999 & Newer	

BOAT DESCRIPTION/LENGTH	VORTEX ^{XHS™} HIGH PERFORMANCE ALUMINUM PROPELLERS			
	Dia.	Rot.	Pitch	Part No.
				11-1/2 R 8 992401
				11-1/2 R 9 992402
19-22' - LL				11-1/2 R 10 992403
17-19' - AL, SK	10-3/8	R	11	992404
16-17' - AL, SK	10-3/8	R	12	992405
14-16' - AL, SK	10-3/8	R	13	992406
12-14' - LL	10-3/8	R	14	992407
12-14' - LL	10	R	15	992408
12-14' - LL	10	R	16	992409



HIGH PERFORMANCE
ALUMINUM PROPELLERS



ULTIMATE PERFORMANCE
STAINLESS STEEL PROPELLERS



Apollo XHS
Stainless Steel

Drop-In Hub
Use XHS™
Hub Kit
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Refer to pages 39-40
for more details

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
19-22' - LL	12-1/4	R	10	3	AL		032045
19-22' - LL	12-1/4	R	10	3	AL		★ 031072
17-19' - AL, SK	12	R	11	3	AL	663-45947-02-EL	032044
16-17' - AL, SK	11-3/8	R	12	3	AL	6H5-45952-00-EL	032043
14-16' - AL, SK	11-1/8	R	13	3	AL	6H5-45945-00-EL	032042
12-14' - LL	11-1/4	R	14	3	AL	663-45958-01-EL	032041
12-14' - LL	11	R	15	3	AL	6H5-45943-00-EL	032040
12-14' - LL	10-3/4	R	16	3	AL	663-45949-01-EL	★ 032039



Rubber
Hub
Bushing

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless




▶ LIMITED INVENTORY ITEMS.

★ Indicates a cupped propeller.

50-130 HORSEPOWER

Thru Hub Exhaust & 15 Tooth Spline

75 HP .....1994 & Newer	90 HP .....1984 & Newer	130 HP .....1984 & Newer
70 HP .....1984 & Newer	FS 90 (4-Stroke) .....1999 & Newer	FS 115 (4-Stroke) .....2000 & Newer
60 HP .....1992 & Newer	85 HP .....1991-97	115 HP .....1984 & Newer
T50 HP .....1996 & Newer	80 HP .....1997	FS 100 (4-Stroke) .....1999 & Newer



BOAT DESCRIPTION/LENGTH	 HIGH PERFORMANCE ALUMINUM PROPELLERS								 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS							
	3-BLADE				3-BLADE WIDE NEW				STD 3-BLADE				 Apollo XHS Stainless Steel			
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.				
				14	R	13	992112									
19-22' - Runabouts, SK	13-3/4	R	15	992103	13-3/4	R	15	992113	13-3/8	R	15	▼ 993143				
19-22' - Runabouts, SK									13-3/8	L	15	▼ 993153				
18-21' - Runabouts, SK	13-1/4	R	17	992104	13-1/4	R	17	992114	13-1/4	R	17	▼ 993144				
18-21' - Runabouts, SK									13-1/4	L	17	▼ 993154				
17-20' - Runabouts, SK	13	R	19	992105	13	R	19	992115	13-1/8	R	19	▼ 993145				
17-20' - Runabouts, SK									13-1/8	L	19	▼ 993155				
15-18' - Runabouts, SK	12-3/4	R	21	992106	12-3/4	R	21	992116	13	R	21	▼ 993146				
15-18' - Runabouts, SK									13	L	21	▼ 993156				

Drop-In Hub

Use XHS™ Hub Kit **108 & 103**

Use Gearcase Adapter Ring supplied with propeller.

Note: For 115 HP, FS 115 (4-Stroke), and 130 HP engine applications, use XHS™ (Drop-In Hub) Kit # 103. For all other engine applications, use XHS™ (Drop-in Hub) Kit # 108. Refer to pages 39-40 for more details. Trim Tab 6E5-45371-10-00 is required when using the Apollo.

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS								 BALLISTIC					BALLISTIC XL				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	
	25' - AL	14	R	11	3	AL	6E5-45954-00-EL	101036										
NEW ← Pontoon	14	R	11	3	AL		◆ 031200											
NEW ← Pontoon	14	R	12	3	AL		◆ 031201											
22' - AL	13-5/8	R	13	3	AL	6E5-45949-00-EL	101031											
NEW ← Pontoon	14	R	13	3	AL		◆ 031202											
20-24' - AL, SK	13-1/2	R	15	3	AL	6E5-45947-00-EL	101032	13-5/8	R	15	3	335930						
17-19' - AL, SK	13-1/4	R	17	3	AL	6E5-45945-00-EL	101033	13-1/2	R	17	3	335931						
16-18' - AL, SK	13	R	19	3	AL	6E5-45941-00-EL	101034	13-3/8	R	19	3	335932						
15-18' - AL, SK	12-5/8	R	21	3	AL	6E5-45943-00-EL	101035	13-1/8	R	21	3	335933						
High Performance													13-1/2	R	22	3	335934	
High Performance													13-1/2	R	24	3	335935	

Rubber Hub Bushing

80-140 HORSEPOWER

Thru Hub Exhaust & 15 Tooth Spline

80, 90, 115 HP1978-83	80 HP1977	140 HP1978-79
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See Mercury 40-140 HP Product Offering on page 20.

150-175 HORSEPOWER

Thru Hub Exhaust & 15 Tooth Spline

150 HP1979-83	175 HP1978-79	175 HP (DI & VMAX)2001 & Newer
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See Mercury V-6 Product Offering on page 21.

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless




- ◆ LIMITED INVENTORY ITEMS.
- ◆ New Pontoon Boat Propellers - Extra Cup!
- ▼ Trim Tab 6E5-45371-10-00 is required when using the Apollo propeller on Yamaha V4 engines, 50-130 HP.

150-300 HORSEPOWER

Thru Hub Exhaust & 15 Tooth Spline

150 HP .....1986 & Newer	220 HP (Special) .....1984-85	F200 (4-Stroke) .....2002 & Newer
150 HP (4-Stroke) .....2004 & Newer	225 HP (Excel) .....1987-88	F225 (4-Stroke) .....2002 & Newer
175 HP .....1984 & Newer	225 HP .....1986 & Newer	300 HP .....2003 & Newer
200 HP .....1984 & Newer	250 HP .....1990 & Newer	300 HPDI .....2004 & Newer
200 HP (VMAX) .....2001	250 HP (VMAX) .....2001	




* For engines 300 HP or higher, use "high horsepower sleeve".
See Page 39 for more details.

 HIGH PERFORMANCE ALUMINUM PROPELLERS								 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS																			
3-BLADE				4-BLADE				3-BLADE				STD 3-BLADE				LG. DIAMETER 3-BLADE				4-BLADE							
Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.
15-1/4	R	15	992002									14-3/8	R	15	993042												
								14-1/4	L	15	▶ 993012					14-3/8	L	15	993052								
15	R	17	992003	15	R	16	992202					14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203				
												14-1/4	L	17	993053	15-1/2	L	17	993033	14-5/8	L	16	993213				
14-1/2	R	19	992004	14-1/2	R	18	992203					14-1/8	R	19	993044	15-1/4	R	19	993024	14-3/8	R	18	993204				
								14-1/4	L	19	▶ 993014					15-1/4	L	19	993034	14-3/8	L	18	993214				
14-1/4	R	21	992005	14	R	20	992204					14	R	21	993045	14-3/4	R	21	993025	14-1/8	R	20	993205				
								14-1/4	L	21	▶ 993015					14-3/4	L	21	993035	14-1/8	L	20	993215				
14	R	23	992006									14	L	21	993055	14-3/4	L	21	993035	14-1/8	L	20	993215				
								14-1/4	L	23	▶ 993016					13-7/8	R	23	993046	14	R	22	993206				
												14-1/4	L	23	▶ 993016					14-5/8	R	23	993026	14	R	22	993206
																14-5/8	L	23	993036	14	L	22	993216				
								14-1/4	L	25	▶ 993017																

Drop-In Hub

Use XHS™
Hub Kit
103

Refer to pages 39-40
for more details

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS						 BALLISTIC					 BALLISTIC XL					
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
	20-22' - AL, SK								14-7/8	R	15	3	345931				
20-21' - AL, SK	14-5/8	R	16	3	AL	6G5-45952-00-98	▶ 101026										
19-21' - AL, SK	14-1/2	R	17	3	AL	6G5-45947-01-98	101027	14-3/4	R	17	3	345932					
19-21' - AL, SK								14-3/4	L	17	3	345962					
18-20' - AL, SK	14	R	19	3	AL	6G5-45945-01-98	101028	14-1/2	R	19	3	345933					
18-20' - AL, SK								14-1/2	L	19	3	345963					
18-20' - AL, SK								14-3/8	R	21	3	345934					
18-20' - AL, SK								14-3/8	L	21	3	345964					
18-19' - AL, SK	13-1/2	R	23	3	AL	6G5-45949-00-98	▶ 101030	14-1/4	R	23	3	345935					
Up to 18' - AL, SK								14-1/4	R	25	3	345936					
High Performance													14-1/2	R	22	3	345941
High Performance													14-1/2	R	24	3	345937
High Performance													14-1/2	R	26	3	345938
High Performance 4-Blade Propellers																	
High Performance													13-3/4	R	23	4	435935
High Performance													13-3/4	R	25	4	435936
High Performance													13-3/4	R	27	4	435937

Rubber
Hub
Bushings

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS.




MERCUISER™, ALPHA ONE™ • BRAVO ONE™

Thru Hub Exhaust & 15 Tooth Spline

MODELS 1A, 1B, 1C
 MODELS 120, 140, 145 DTS
 MODELS 165, 228, 470, 485, 888, 898
 MODELS 225S, 233, 255TRS
 MODELS 260, 280TRS, 330TRS ...
 120-190 HP Mercruiser™1983-85
 200-260 HP Mercruiser™1983-85

Alpha One™
 2.5L - 5.7L Alpha One™All Years
 6.2L MPI Alpha One™All Years
 262, 350, 354 MagnumAll Years
 320 EFI Alpha One™All Years
 D2.8L - D7.3L (Diesel)All Years




Bravo One™ (Rubber Hub)
 320 EFI, 350, 454 MagnumAll Years
 5.0L - 7.4L Bravo One™All Years

 HIGH PERFORMANCE ALUMINUM PROPELLERS								 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS																											
3-BLADE				4-BLADE				3-BLADE				STD 3-BLADE				LG. DIAMETER 3-BLADE				4-BLADE															
Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.								
15-1/4	R	15	992002					14-1/4	L	15	993012	14-3/8	R	15	993042																				
15	R	17	992003	15	R	16	992202					14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203												
												14-1/4	L	17	993053	15-1/2	L	17	993033	14-5/8	L	16	993213												
14-1/2	R	19	992004	14-1/2	R	18	992203					14-1/8	R	19	993044	15-1/4	R	19	993024	14-3/8	R	18	993204												
								14-1/4	L	19	993014	14-1/8	L	19	993054	15-1/4	L	19	993034	14-3/8	L	18	993214												
14-1/4	R	21	992005	14	R	20	992204					14	R	21	993045	14-3/4	R	21	993025	14-1/8	R	20	993205												
								14-1/4	L	21	993015	14	L	21	993055	14-3/4	L	21	993035	14-1/8	L	20	993215												
14	R	23	992006					14-1/4	L	23	993016	13-7/8	R	23	993046	14-5/8	R	23	993026	14	R	22	993206												
								14-1/4	L	23	993016	13-7/8	L	23	993056	14-5/8	L	23	993036	14	L	22	993216												
								14-1/4	L	25	993017																								

Drop-In Hub

Use XHS™
 Hub Kit
102

Refer to pages 39-40
 for more details

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS										 BALLISTIC					 BALLISTIC XL				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.			
	Non-Plane Heavy CR	16	R	11	3	AL	48-78112A40	031021												
Non-Plane Heavy CR	16	R	12	3	AL	48-16436A40	031063													
Non-Plane Heavy CR	16	R	13	3	AL	48-78114A40	031022													
21-27' - (17-31 MPH)	16	R	14	3	AL	48-16438A40	031050													
21-28' - (18-38 MPH)	15-1/4	R	15	3	AL	48-78116A40	031023	14-7/8	R	15	3	345131								
19-26' - (26-35 MPH)	16	R	16	3	AL	48-16440A40	031051													
19-26' - (27-45 MPH)	14-1/2	R	17	3	AL	48-78118A40	031024	14-3/4	R	17	3	345132								
19-26' - (27-45 MPH)	15	R	17	3	AL	48-832828A45	031064	14-3/4	L	17	3	345162								
17-25' - (32-42 MPH)	15-1/2	R	18	3	AL	48-11324A45	031052													
17-25' - (33-49 MPH)	14	R	19	3	AL	48-78120A40	031025	14-1/2	R	19	3	345133								
17-25' - (33-49 MPH)	14-1/2	R	19	3	AL	48-832830A45	031065													
17-25' - (33-49 MPH)	15-1/4	L	19	3	SS	48-13701A41	033029	14-1/2	L	19	3	345163								
Up to 23' - (37-56 MPH)	13-3/4	R	21	3	AL	48-78122A40	031026	14-3/8	R	21	3	345134								
Up to 23' - (37-56 MPH)	14-1/4	R	21	3	AL	48-832832A45	031066	14-3/8	L	21	3	345164								
Up to 20' - (40-62 MPH)	14	R	23	3	AL	48-832834A45	031068	14-1/4	R	23	3	345135								
Up to 20' - (40-62 MPH)	14-5/8	L	23	3	SS	48-13705A41	033033	14-1/4	L	23	3	345165								
Up to 18' - (43-65 MPH)	13-3/8	R	25	3	AL	48-78126A40	031067	14-1/4	R	25	3	345136								
Up to 18' - (43-65 MPH)																				
High Perf. Lifting Hull													14-1/2	R	22	3	345141			
High Perf. Lifting Hull													14-1/2	R	24	3	345137			
High Perf. Lifting Hull													14-1/2	R	26	3	345138			

Rubber Hub Bushing

Use OEM
 fwd washer 12-835467
 aft washer 12-3121A3
 tab washer 14-816629
 or
 MWC Kit 990312
 or 9661-1

See Page 22 for details.

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS.

⚙ When using Rapture, Ballistic, and Apollo propellers, to avoid damage or injury, replace standard trim tab with trim tab 822777A1.

▼ These applications will require an anode plate 76214Q5 (Quicksilver part number) in place of the 822777A1 trim tab.

BRAVO ONE™ • OVER 365 HP • (SOLID HUB)

Thru Hub Exhaust & 15 Tooth Spline

454 Magnum (385 HP) .....1995 & Newer	450 HP .....1995	500 HP .....1996 & Newer
502 Magnum (390-415 HP) .....1990 & Newer	465 HP .....1991 & 94	525 HP (SC) (490-500) .....1992 & Newer

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							Solid Hub
	ALUMINUM & STAINLESS STEEL PROPS							
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	
24-30'	14-3/4	R	21	3	SS	48-13244A50	►033054	
23-28'	14-5/8	L	23	3	SS	48-13245A50	►033055	
21-26'	14-1/2	R	25	3	SS	48-13248A50	►033058	
21-26'	14-1/2	L	25	3	SS	48-13247A50	►033057	


OMC - OUTBOARD MARINE


STERNDRIVES

MODEL 400, COBRA®

Thru Hub Exhaust & 13 Tooth Spline

Model 400	Cobra®
2.3 L (120 HP) .....Thru 1991	2.3 L (128 HP) .....1988-91
2.5 L (120 HP) .....1978-84	2.5 L (120 HP) .....1985-87
3.0 L (140 HP) .....Thru 1989	3.0 L (140 HP) .....1985-87

BOAT DESCRIPTION/LENGTH	VORTEX ^{XHS} ™ HIGH PERFORMANCE ALUMINUM PROPELLERS				APOLLO ^{XHS} ™ ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				Drop-In Hub Use XHS™ Hub Kit 106 Do NOT use Gearcase Adapter Ring supplied with propeller. Refer to pages 39-40 for more details
	3-BLADE		3-BLADE WIDE NEW		STD 3-BLADE		 <p>Apollo XHS Stainless Steel</p>		
	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.			
				14	R 13	992112			
19-22' - Runabouts, SK	13-3/4	R 15	992103	13-3/4	R 15	992113	13-3/8	R 15	993143
19-22' - Runabouts, SK							13-3/8	L 15	993153
18-21' - Runabouts, SK	13-1/4	R 17	992104	13-1/4	R 17	992114	13-1/4	R 17	993144
18-21' - Runabouts, SK							13-1/4	L 17	993154
17-20' - Runabouts, SK	13	R 19	992105	13	R 19	992115	13-1/8	R 19	993145
17-20' - Runabouts, SK							13-1/8	L 19	993155
15-18' - Runabouts, SK	12-3/4	R 21	992106	12-3/4	R 21	992116	13	R 21	993146
15-18' - Runabouts, SK							13	L 21	993156

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							BALLISTIC™ STAINLESS STEEL PROPS				 <p>011004</p>	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS							BALLISTIC					
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#			Part No.
WB - (6-16 MPH)	14	R	11	3	AL	382761	012047						
CR, HB - (14-26 MPH)	14	R	13	3	AL	391668	011001						
19-22' - (24-37 MPH)	13-3/4	R	15	3	AL	391198	011002	13-5/8	R	15	3	335030	
17-20' - (30-45 MPH)	13-1/4	R	17	3	AL	391199	011003	13-1/2	R	17	3	335031	
17-20' - (30-45 MPH)	14	R	17	3	AL	176214	011024						
16-19' - (36-50 MPH)	13	R	19	3	AL	390896	011004	13-3/8	R	19	3	335032	
16-19' - (36-50 MPH)	14	R	19	3	AL	176215	011025						
15-18' - (41-53 MPH)	12-3/4	R	21	3	AL	389788	011005	13-1/8	R	21	3	335033	

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

- ▶ LIMITED INVENTORY ITEMS.
- Solid Hub Propellers include forward thrust washer 9500-120 and should be used in place of the existing one.

MODEL 800, KING COBRA®, COBRA®, SEA DRIVE® • 4-3/4" Large Gearcase

Thru Hub Exhaust & 15 Tooth Spline




3.0 L - 8.2 L (Non SX Drive)1990-93

5.8 L (Cobra®)1989-93

Sea Drive® 2.0 L - 4.0 LAll Years

Includes H.O. & EFI Models

Note: For SX Drive, see Volvo Penta Section on page 37.



 HIGH PERFORMANCE ALUMINUM PROPELLERS								 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS																			
3-BLADE				4-BLADE				3-BLADE				STD 3-BLADE				LG. DIAMETER 3-BLADE				4-BLADE							
Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.				
15-1/4	R	15	992002									14-3/8	R	15	993042												
								14-1/4	L	15	993012					14-3/8	L	15	993052								
15	R	17	992003	15	R	16	992202					14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203				
												14-1/4	L	17	993053	15-1/2	L	17	993033	14-5/8	L	16	993213				
14-1/2	R	19	992004	14-1/2	R	18	992203					14-1/8	R	19	993044	15-1/4	R	19	993024	14-3/8	R	18	993204				
								14-1/4	L	19	993014					15-1/4	L	19	993034	14-3/8	L	18	993214				
14-1/4	R	21	992005	14	R	20	992204					14	R	21	993045	14-3/4	R	21	993025	14-1/8	R	20	993205				
								14-1/4	L	21	993015					14-3/4	L	21	993035	14-1/8	L	20	993215				
14	R	23	992006									14	L	21	993055	14-5/8	R	23	993026	14	R	22	993206				
								14-1/4	L	23	993016					13-7/8	R	23	993046	14	L	22	993216				
												14-1/4	L	23	993056	14-5/8	L	23	993036								
								14-1/4	L	25	993017																

Drop-In Hub

Use XHS™
Hub Kit
100
&
101

Refer to pages 39-40 for more details

Note: For engine applications 1978-1990 use XHS™ (Drop-In Hub) Kit # 101. For engine applications 1991 & Newer, use XHS™ (Drop-In Hub) Kit # 100. Refer to pages 39-40 for more details.


BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS							 BALLISTIC					BALLISTIC XL				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
	Non-Plane Heavy CR	15-1/2	R	10	3	AL		011015									
Non-Plane Heavy CR	15-1/2	R	13	3	AL	391536	011016										
22-28' - (22-32 MPH)	15-1/2	R	15	3	AL	391535	011006										
19-26' - (28-39 MPH)	15	R	15	3	SS	174926	013052	14-7/8	R	15	3	345031					
19-26' - (28-39 MPH)	15	L	15	3	SS	174927	013051										
18-26' - (30-46 MPH)	15	R	17	3	AL	391200	011007	14-3/4	R	17	3	345032					
18-26' - (30-46 MPH)								14-3/4	L	17	3	345062					
17-24' - (36-52 MPH)	14-1/2	R	19	3	AL	391201	011008	14-1/2	R	19	3	345033					
17-24' - (36-52 MPH)	14-1/2	L	19	3	SS	390821	013045	14-1/2	L	19	3	345063					
6-22' - (40-60 MPH)	14-1/4	R	21	3	AL	391202	011009	14-3/8	R	21	3	345034					
16-22' - (40-60 MPH)	14-1/4	L	21	3	SS	390822	013047	14-3/8	L	21	3	345064					
15-20' - (45-66 MPH)	14-1/4	R	23	3	AL	391203	011010	14-1/4	R	23	3	345035					
15-20' - (45-66 MPH)	14-1/4	R	23	3	SS	389019	013050	14-1/4	L	23	3	345065					
High Perf. (50-66 MPH)								14-1/4	R	25	3	345036					
High Performance													14-1/2	R	22	3	345041
High Performance													14-1/2	R	24	3	345037
High Performance													14-1/2	R	26	3	345038

Rubber Hub Bushing

OMC SAILDRIVE®

Non-Thru Hub Exhaust & Pin Drive

Saildrive

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
	10-1/2	R	10	3	AL	376738	012027

012027



Rubber Hub Bushing


▶ LIMITED INVENTORY ITEMS.

† Skeg modification may be required for proper fit. Use thrust washer 333592.

MODEL 14 LARGE GEARCASE 1967-77

Non-Thru Hub Exhaust & Pin Drive


Suggestion: For twin installation increase pitch 2".
 HP RANGE: 120-245

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							012091	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
HP Range: 120-245	14	R	11	3	AL	382676	▶ 012089		
	14	R	14	3	AL	381185	012091		
	14	R	16	3	AL	381186	012092		

80-90 HP CYCLE SMALL GEARCASE 1968 • MARINE DRIVE SYSTEMS/RANGER

Thru Hub Exhaust & Pin Drive


Suggestion: For twin installation increase pitch 2".

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							012044	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
HP Range: 80-120	10	R	11	3	AL	377978	▶ 012044		
	10	R	12	3	AL	378039	▶ 012045		

SEA DRIVE® 1982 & NEWER • 4-1/4" GEARCASE

Thru Hub Exhaust & 13 Tooth Spline

1.6 L V-41982 & Newer 1.8 L V-41987 & Newer
 For twin installation increase pitch 2".

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							BALLISTIC™ STAINLESS STEEL PROPS					011004	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS							BALLISTIC						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.		
Barges, HB - (1-18 MPH)	14	R	11	3	AL	382761	012047							
26' & Up - (14-28 MPH)	14	R	13	3	AL	391668	011001							
22-26' - (24-36 MPH)	13-3/4	R	15	3	AL	391198	011002	13-5/8	R	15	3	335030		
19-22' - (30-40 MPH)	13-1/4	R	17	3	AL	391199	011003	13-1/2	R	17	3	335031		
19-22' - (30-40 MPH)	14	R	17	3	AL	176214	011024							
17-20' - (38-50 MPH)	13	R	19	3	AL	390896	011004	13-3/8	R	19	3	335032		
17-20' - (38-50 MPH)	14	R	19	3	AL	176215	011025							
15-18' - (44-56 MPH)	12-3/4	R	21	3	AL	389788	011005	13-1/8	R	21	3	335033		

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS.



AQUAMATIC 200, 250, 270, 275, 280, 290 SP

Motor Horsepower	Gear Ratio	Approximate Boat Length			Houseboats Barges
		Thru 17'	18 - 21'	22 - 25'	
110 - 140 HP	1.35 : 1	14 x 15		14 x 15	15 x 13
	1.62 : 1	14 x 17	14 x 15	14 x 17	
	2.15 : 1	14 x 19	14 x 17		
150 - 185 HP	1.35 : 1	14 x 17	14 x 17	15 x 13	15 x 15 15 x 13
	1.61 : 1	14 x 21	14 x 21	15 x 17	
	1.89 : 1	14 x 19	14 x 19	15 x 15	
190 - 255 HP	1.35 : 1	14 x 21	15 x 19	15 x 17	16 x 13
	1.61 : 1	14 x 23	16 x 17	16 x 17	
230 - 260 HP	1.61 : 1	14 x 23	14 x 23	14 x 23	
290 HP	1.61 : 1	14 x 23	14 x 23	14 x 23	



Volvo Long Hub Aluminum



Volvo Standard Hub Aluminum

Long Hub Propellers

Non-Thru Hub Exhaust & 17 Tooth Spline

Nearest Michigan Match™ OEM Equivalent

Dia. x Pitch	Rot.	Blade #	Aluminum Part No.	
			OEM	Michigan
14 x 17	RH	3	854286-4	◆ 082002-1
	LH	3	854977-6	◆ 082001-1
14 x 19	RH	3	854993-3	◆ 082004-1
14 x 21	LH	3	854979-2	◆ 082009-1
15 x 19	RH	3	854998-2	◆ 082014-1
15 x 21	LH	3	854984-2	◆ 082015-1
	RH	3	872001-3	◆ 082090-1
16 x 15	LH	3	854987-5	◆ 082091-1
	RH	3	872002-1	◆ 082092-1

Standard Hub Propellers

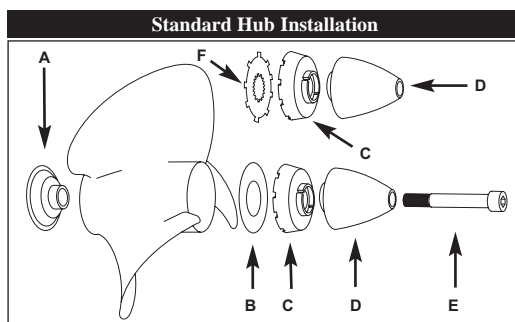
Non-Thru Hub Exhaust & 17 Tooth Spline

Nearest Michigan Match™ OEM Equivalent

Dia. x Pitch	Rot.	Blade #	Aluminum Part No.	
			OEM	Michigan
14 x 15	RH	3	814631-8	◆ 082026-1
14 x 15	LH	3	814626-8	◆ 082025-1
15 x 13	LH	3	813319-7	◆ 082087-1
15 x 19	LH	3	-	◆ 082021

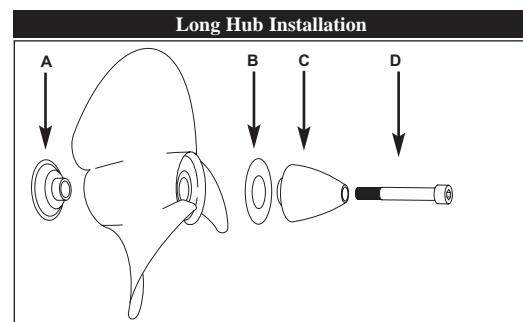
Long Hub Propellers are for use with model 275, 280 & 290 outdrives and late production 270 outdrives which have drilled propeller shaft.
Standard Hub Propeller installations are from outdrive serial #PZ2877179, and are NOT for use with V-6 diesel engines.
Propeller Hardware is available thru Volvo Distributors.

- ◆ Note: Bushings for above propellers suggested for max. 240 HP UNLESS marked with a ◆.
- ◆ LIMITED INVENTORY ITEMS.



Standard Hub Propeller installations require:

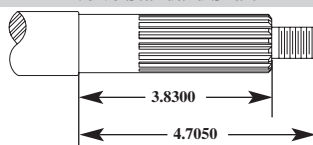
- A) Thrust Washer #839534-5 (Depth: .625")
- B) Washer #850888-9 or F) Washer #897367-9
- C) Spacer Ring #854047-8
- D) Propeller Cone #8504045-2
- E) Allen bolt #850889-7



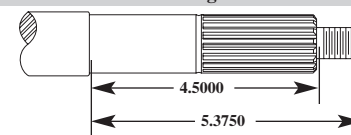
Long Hub Propeller Hardware:

- A) Thrust Washer #839423-1 (Depth: 1.3")
- B) Washer #850888-9
- C) Propeller Cone #8504045-2
- D) Allen bolt #850889-7

Volvo Standard Shaft






Volvo Long Shaft



SX COBRA™, VOLVO PENTA SX

Thru Hub Exhaust & 19 Tooth Spline



3.0 L .....1994 & Newer	5.7 L .....1994 & Newer	7.4 L .....1997 & Newer
4.3 L .....1994 & Newer	5.8 L .....1994-97	8.2 L .....1997
5.0 L .....1994 & Newer		

 HIGH PERFORMANCE ALUMINUM PROPELLERS				 (Merged into Vortex section)				 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
3-BLADE		4-BLADE		3-BLADE		STD 3-BLADE		LG. DIAMETER 3-BLADE		4-BLADE	
Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.
15-1/4	R 15 992002					14-3/8	R 15 993042				
				14-1/4	L 15 ▶ 993012	14-3/8	L 15 993052				
15	R 17 992003	15	R 16 992202			14-1/4	R 17 993043	15-1/2	R 17 993023	14-5/8	R 16 993203
						14-1/4	L 17 993053	15-1/2	L 17 993033	14-5/8	L 16 993213
14-1/2	R 19 992004	14-1/2	R 18 992203			14-1/8	R 19 993044	15-1/4	R 19 993024	14-3/8	R 18 993204
				14-1/4	L 19 ▶ 993014	14-1/8	L 19 993054	15-1/4	L 19 993034	14-3/8	L 18 993214
14-1/4	R 21 992005	14	R 20 992204			14	R 21 993045	14-3/4	R 21 993025	14-1/8	R 20 993205
				14-1/4	L 21 ▶ 993015	14	L 21 993055	14-3/4	L 21 993035	14-1/8	L 20 993215
14	R 23 992006					13-7/8	R 23 993046	14-5/8	R 23 993026	14	R 22 993206
				14-1/4	L 23 ▶ 993016	13-7/8	L 23 993056	14-5/8	L 23 993036	14	L 22 993216
				14-1/4	L 25 ▶ 993017						

Drop-In Hub

Use XHS™
Hub Kit
105

Refer to pages 39-40 for more details

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS								 BALLISTIC				
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	
	24-28' - (26-36 MPH)	15-1/2	R	15	3	AL	3850299	161001	14-7/8	R	15	3	346031
24-28' - (26-36 MPH)	15	R	15	3	SS	3850305	▶ 163002						
22-27' - (34-44 MPH)	15	R	17	3	AL	3850300	161002	14-3/4	R	17	3	346032	
22-27' - (34-44 MPH)	15	L	17	3	SS	3850316	▶ 163003	14-3/4	L	17	3	346062	
19-25' - (39-50 MPH)	14-1/2	R	19	3	AL	3850301	161003	14-1/2	R	19	3	346033	
19-25' - (39-50 MPH)	14-1/2	L	19	3	SS	3850317	▶ 163005	14-1/2	L	19	3	346063	
17-22' - (39-50 MPH)	14-1/4	R	21	3	AL	3850302	161004	14-3/8	R	21	3	346034	
17-22' - (39-50 MPH)	14-1/4	L	21	3	SS	3850318	▶ 163007	14-3/8	L	21	3	346064	
17-20' - (44-57 MPH)	14-1/4	R	23	3	AL	3850303	161005	14-1/4	R	23	3	346035	
17-20' - (44-57 MPH)	14-1/4	L	23	3	SS	3850319	▶ 163009	14-1/4	L	23	3	346065	



Rubber Hub Standard Replacement Aluminum

Rubber Hub Bushing

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS.




PERFORMANCE PROPELLERS








STAINLESS STEEL PROPS

YAMAHA STERNDRIVES

Thru Hub Exhaust & 15 Tooth Spline

3.0 L (130 HP) EST/PSR1989-93




5.0 L (205 HP) EST/PSR/YEMS . . .1989-93

7.4 L (300 HP) HYDRA DRIVE (EST) 1992-93

4.3 L (205 HP) EST/YEMS/PRS . . .1989-93

5.7 L (260 HP) EST/PSR/YEMS . . .1989-93



* For engines 300 HP or higher, use "high horsepower sleeve". See page 39 for more details.

 HIGH PERFORMANCE ALUMINUM PROPELLERS								 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
3-BLADE		4-BLADE		3-BLADE		STD 3-BLADE		LG. DIAMETER 3-BLADE		4-BLADE	
Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.
15-1/4	R 15 992002					14-3/8	R 15 993042				
				14-1/4	L 15 993012	14-3/8	L 15 993052				
15	R 17 992003	15	R 16 992202			14-1/4	R 17 993043	15-1/2	R 17 993023	14-5/8	R 16 993203
						14-1/4	L 17 993053	15-1/2	L 17 993033	14-5/8	L 16 993213
14-1/2	R 19 992004	14-1/2	R 18 992203			14-1/8	R 19 993044	15-1/4	R 19 993024	14-3/8	R 18 993204
				14-1/4	L 19 993014	14-1/8	L 19 993054	15-1/4	L 19 993034	14-3/8	L 18 993214
14-1/4	R 21 992005	14	R 20 992204			14	R 21 993045	14-3/4	R 21 993025	14-1/8	R 20 993205
				14-1/4	L 21 993015	14	L 21 993055	14-3/4	L 21 993035	14-1/8	L 20 993215
14	R 23 992006					13-7/8	R 23 993046	14-5/8	R 23 993026	14	R 22 993206
				14-1/4	L 23 993016	13-7/8	L 23 993056	14-5/8	L 23 993036	14	L 22 993216
				14-1/4	L 25 993017						

Drop-In Hub

Use XHS™
Hub Kit
103

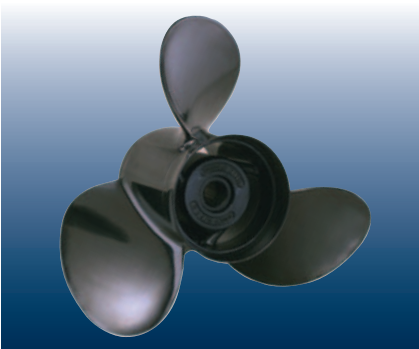
Refer to pages 39-40 for more details

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS						 BALLISTIC					BALLISTIC XL					
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
	21-26' - (18-31 MPH)								14-7/8	R	15	3	345931				
20-24' - (25-34 MPH)	14-5/8	R	16	3	AL	6G5-45952-00-98	101026										
19-23' - (27-37 MPH)	14-1/2	R	17	3	AL	6G5-45947-01-98	101027	14-3/4	R	17	3	345932					
19-23' - (27-37 MPH)								14-3/4	L	17	3	345962					
17-21' - (33-42 MPH)	14	R	19	3	AL	6G5-45945-01-98	101028	14-1/2	R	19	3	345933					
17-21' - (33-42 MPH)								14-1/2	L	19	3	345963					
18-19' - (37-46 MPH)								14-3/8	R	21	3	345934					
18-19' - (37-46 MPH)								14-3/8	L	21	3	345964					
17-19' - (39-48 MPH)	13-1/2	R	23	3	AL	6G5-45949-00-98	101030	14-1/4	R	23	3	345935					
17-19' - (39-48 MPH)								14-1/4	L	23	3	345965					
High Performance													14-1/2	R	22	3	345941
High Performance													14-1/2	R	24	3	345937
High Performance													14-1/2	R	26	3	345938

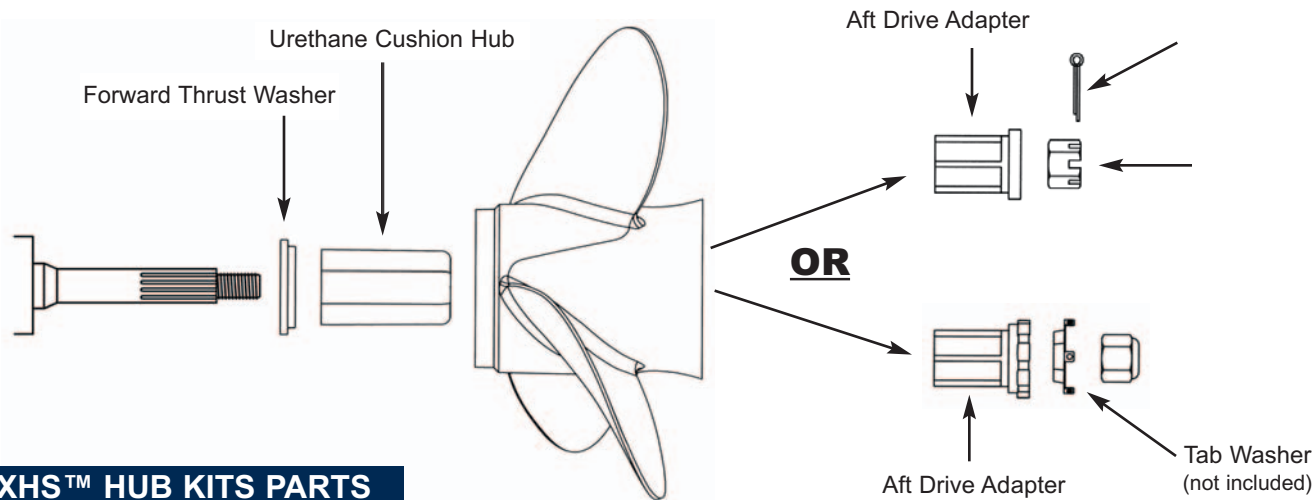
Rubber Hub Bushing

Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

▶ LIMITED INVENTORY ITEMS.



XHS™ PROPELLER ACCESSORIES



XHS™ HUB KITS PARTS

Hub Kit	Description	Parts	
V4/V6 & Sterndrive XHS™ Hub Kits			
100	Evinrude/Johnson Outboards - OMC Sterndrives (V6/V8 Gearcase 1991 to present)	991202 991201 991203	Forward Thrust Washer Urethane Cushion Hub Aft Drive Adapter
101	Evinrude/Johnson Outboards - OMC Sterndrives (V6/V8 Gearcase 1984 - 1990)	991204 991201 991203	Forward Thrust Washer Urethane Cushion Hub Aft Drive Adapter
102	Mer cruiser Alpha One & Bravo One (less than 400 HP) Mercury/Mariner 60HP Bigfoot, 70-125 HP Mercury/Mariner/Force 135-250 HP Force 90-120 HP Honda Outboards 75-90 HP thru 1998 Yamaha Outboards thru 1983	991204 991201 991205 990346 990344	Forward Thrust Washer Urethane Cushion Hub Aft Drive Adapter Propeller Nut Tab Washer
103	Yamaha Outboards & Sterndrives (115-130 HP, 150-250 HP, V6 Gearcase 1984 to present)	991213 991201 991206	Forward Thrust Washer Urethane Cushion Hub Aft Drive Adapter
104	Suzuki Outboards (150-225 HP, V6 Gearcase)	991207 991201 991208	Forward Thrust Washer Urethane Cushion Hub Aft Drive Adapter
105	Volvo SX Sterndrives (19 tooth spline 1994 to present)	991202 991201 991209	Forward Thrust Washer Urethane Cushion Hub Aft Drive Adapter
106	Evinrude/Johnson Outboards - OMC Sterndrives (V4 Gearcase 1968 to present)	991210 991201 991211	Forward Thrust Washer Urethane Cushion Hub Aft Drive Adapter
107	Honda Outboards (115-130 HP 1998 to present, 75-90 HP 1999 to present) 135 & 150 HP 2004 & Newer, 200 & 225 HP 2003 & Newer)	991207 991201 991205	Forward Thrust Washer Urethane Cushion Hub Aft Drive Adapter
108	Yamaha Outboards (50-100 HP, splined front thrust washer)	991212 991201 991206	Forward Thrust Washer Urethane Cushion Hub Aft Drive Adapter
109	Nissan/Tohatsu Outboards (90-140 HP)	991213 991201 991214	Forward Thrust Washer Urethane Cushion Hub Aft Drive Adapter
110	Suzuki V4 Outboards (60-140 HP)	991215 991201 991211	Forward Thrust Washer Urethane Cushion Hub Aft Drive Adapter
125	90-115 4-Stroke Suzuki/Johnson	991201 991205 991253 990337	Urethane Cushion Hub Drive Adapter Thrust Washer (1) - Washer SS 32 x 19.2 x 2.5MM

NOTE: V4/V6 Solid Hub Kits are available by special order. Add "SH" to end of any V4/V6 Hub kit number to order.
Example: "100SH". Contact Customer Service for details.

XHS™ PROPELLER ACCESSORIES

XHS™ HUB KITS PARTS

Hub Kit	Description	Parts
V4/V6 & Sterndrive XHS™ Hub Kits (continued)		
126	140 4-Stroke Suzuki/Johnson	991201 Urethane Cushion Hub 991205 Drive Adapter 991204 Thrust Washer 990337 (1) - Washer SS 32 x 19.2 x 2.5MM
High Horsepower Inner Hub (Mercury part # 850821A2)		991272 Solid Hub
V4 Gearcase Adapter Ring		991216 Adapter Ring
20-70 HP XHS™ Hub Kits		
111	Evinrude/Johnson Outboards (40-70 HP)	991225 Urethane Cushion Hub 991247 Thrust Washer 991232 Drive Adapter
112	Tohatsu/Nissan Outboards (50-70 HP)	991225 Urethane Cushion Hub 991273 Thrust Washer 991232 Drive Adapter
113	Honda Outboards (35-50 HP)	991225 Urethane Cushion Hub 991234 Thrust Washer 991227 Drive Adapter
114	Mercury/Mariner/Force Outboards (30-70 HP)	991225 Urethane Cushion Hub 991236 Thrust Washer 991227 Drive Adapter
115	Suzuki Outboards (30-70 HP)	991225 Urethane Cushion Hub 991239 Thrust Washer 991231 Drive Adapter 990338 (1) - Washer SS 17 x 30 x 2.5MM
116	Tohatsu/Nissan Outboards (35-50 HP)	991225 Urethane Cushion Hub 991241 Thrust Washer 991227 Drive Adapter 990338 (2) - Washer SS 17 x 30 x 2.5MM
117	Yamaha Outboards (40-60 HP)	991225 Urethane Cushion Hub 991243 Thrust Washer 991227 Drive Adapter 990338 (1) - Washer SS 17 x 30 x 2.5MM
118	Evinrude/Johnson Outboards (20-35 HP)	991225 Urethane Cushion Hub 991237 Thrust Washer 991229 Drive Adapter
119	Honda Outboards (20-30 HP)	991225 Urethane Cushion Hub 991233 Thrust Washer 991226 Drive Adapter
120	Mercury/Mariner/Force Outboards (18-25 HP)	991225 Urethane Cushion Hub 991235 Thrust Washer 991228 Drive Adapter
121	Suzuki Outboards (25-30 HP)	991225 Urethane Cushion Hub 991238 Thrust Washer 991230 Drive Adapter 990338 (1) - Washer SS 17 x 30 x 2.5MM
122	Nissan/Tohatsu Outboards (25-30 HP)	991225 Urethane Cushion Hub 991240 Thrust Washer 991226 Drive Adapter
123	Yamaha Outboards (20-30 HP)	991225 Urethane Cushion Hub 991242 Thrust Washer 991230 Drive Adapter 990338 (1) - Washer SS 17 x 30 x 2.5MM
20-30 HP Gearcase Adapter Ring		991244 Package including all three sizes

NOTE: V4/V6 Solid Hub Kits are available by special order. Add "SH" to end of any V4/V6 Hub kit number to order
 Example: "100SH". Contact Customer Service for details.

PROPELLER CROSS REFERENCE

MWC ALPHA-NUMERIC CROSS REFERENCE

(PAGE B2)

OEM CROSS REFERENCE

(PAGES B3 - B30)

**XHS™ HUB SYSTEM TO MERCURY FLO-TORQ™ II
HUB SYSTEM CROSS REFERENCE**

(PAGE B30)

MICHIGAN WHEEL ALPHA-NUMERIC CROSS REFERENCE

Alpha Numeric	Numeric	Alpha Numeric	Numeric	Alpha Numeric	Numeric
AM431	012067	PJ 95	012054	PR126	
AMC308	072014	PJ 96	012055	PR151	032089
AMC310	072131	PJ 97	012056	PR153	032090
AMC314	072133	PJ 98	012057	PR155	032091
AMC316	072134	PJ199-C	011015	PR155-C	031001
AMC394	072132	PJ200-C	011016	PR157	032092
AMC422	012068	PJ201-C	011006	PR157-C	031002
AMC490	152002	PJ202-C	011007	PR159	032093
AMC580-S	032077	PJ203-C	011008	PR159-C	031003
DQ320		PJ204-C	011009	PR161	032094
DQ328	012075	PJ205-C	011010	PR161-C	031004
EWC19		PJ300	012060	PR276	072054
G 20	072017	PM 8	032014	PR278	072055
G 30	152014	PM 19	032019	PR339	032099
NP 74	302001	PM 20	032020	SMC 18	
PC 12	072024	PM 21	032021	SMC 39	012102
PC 20	072026	PM 22-C	031047	SMC292	082022
PC 28	072122	PM 23-C	031048	SMC293	082021
PC 32	072121	PM 24-C	031049	SMC295	082023
PC112	072123	PM 39	022001	SMC348	082033
PJ 3		PM 40	022002	SMC349	082034
PJ 7	012004	PM 42	022003	SMC374-C	031035
PJ 8	012005	PM211-C	031021	SMC376-C	031036
PJ 9	012006	PM213-C	031022	SMC378-C	031037
PJ 10	012007	PM215-C	031023	SMC380-C	031038
PJ 11	012008	PM217-C	031024	SMC382-C	031039
PJ 15		PM219-C	031025	SMC504-C	031034
PJ 16	012011	PM221-C	031026	SMC921	082045
PJ 18	012013	PM223-C	031027	SMC980	082057
PJ 19	012109	PM311-C	031054	SPC180	072107
PJ 21	012014	PM313-C	031055	SPC182	072108
PJ 22	012015	PM315-C	031041	SPC184	072109
PJ 24	012016	PM317-C	031042	SSC315-C	073002
PJ 29	012021	PM319-C	031043	SSC317-C	073003
PJ 30	012022	PM321-C	031044	SSC319-C	073004
PJ 31	012023	PM323-C	031045	SSM212-C	033001
PJ 32	012024	PM513	032039	SSM245-C	033002
PJ 35	012025	PM515	032040	SSM247-C	033003
PJ 40		PM518	032041	SSM249-C	033004
PJ 41	012027	PM521	032042	SSM251-C	033005
PJ 42		PM524	032043	SSM253-C	033006
PJ 45	012030	PM527	032044	SSM350-C	033007
PJ 47		PM530	032045	SSM354-C	033008
PJ 49	012032	PM600-C	031015	SSM358-C	033009
PJ 50	012033	PM612-C	031016	SSM615-C	033016
PJ 58	012036	PM613-C	031017	SSM617-C	033017
PJ 59	012037	PM614-C	031018	SSM619-C	033018
PJ 60		PM615-C	031019	SSM621-C	033019
PJ 61	012039	PM617-C	031020	SSO315-C	
PJ 62	012040	PR 33	032084	SSV171-C	083001
PJ 74		PR 35	032085	SSV172-C	083002
PJ 75		PR 37	032086	SSV191-C	083003
PJ 76	012044	PR 39	032087	SSV192-C	083004
PJ 77	012045	PR 78	072032	SSV211-C	083005
PJ 83-C	011005	PR 80	072033	SSV212-C	083006
PJ 87	012047	PR 82	072034	SSY615-C	103025
PJ 88-C	011001	PR115	012089	SSY617-C	103026
PJ 89-C	011002	PR118		SSY619-C	103027
PJ 90-C	011003	PR120	012091	SSY717-C	103018
PJ 91-C	011004	PR122	012092	SSY719-C	103020
PJ 94	012053	PR124		SSY721-C	103022

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade		
EVINRUDE, JOHNSON, OMC											
174811	.VIPER™(LH)		.345063		.993014	.993054	.993034	.993214		See Note 2	9, 34
174812	.VIPER™(LH)		.345064		.993015	.993055	.993035	.993215		See Note 2	9, 34
174813	.VIPER™(LH)		.345065		.993016	.993056	.993036	.993216		See Note 2	9, 34
174814	.VIPER™		.345033		.993044	.993024	.993204			See Note 2	9, 34
174815	.VIPER™		.345034		.993045	.993025	.993205			See Note 2	9, 34
174816	.VIPER™		.345035		.993046	.993026	.993206			See Note 2	9, 34
174889	.VIPER™		.345032		.993043	.993023	.993203			See Note 2	9, 34
174890	.VIPER™(LH)		.345062		.993053	.993033	.993213			See Note 2	9, 34
174926	.SST II®		.345031		.993042					See Note 2 . . . 9, 34	
174927	.SST II® (LH)	.013051			.993012	.993052				See Note 2	9, 34
174950		.012111									2
175190		.012055			.992503					.118	4
175191		.012056	.305029		.992505					.118	4
175738	.Renegade™ Bass		.435036								9, 34
175739	.Renegade™ Bass		.435037								9, 34
176058	.Renegade™ Bass		.435035								9, 34
176196	.Renegade™ Bass	.013034	.335033	.335034		.993146				.106	6, 7, 33, 35
176214		.011024	.335031		.992104		.993144			.106	6, 7, 33, 35
176215		.011025	.335032		.992105		.993145			.106	6, 7, 33, 35
176216			.335033		.992106		.993146			.106	6, 7, 33, 35
176421		.011027	.013082	.325030							5
176422		.011028	.013083	.325031							5
176423		.013084									5
176424					.992504					.118	4
176425					.992506					.118	4
176571			.335030			.993143				.106	6, 7, 33, 35
176572	.SST II®		.335031			.993144				.106	6, 7, 33, 35
176573	.SST II®		.335032			.993145				.106	6, 7, 33, 35
176574	.SST II®	.013034	.335033	.335034		.993146				.106	6, 7, 33, 35
176575	.Renegade™ O.S.(RH)		.345032		.993043	.993023	.993203			See Note 2	9, 34
176576	.Renegade™ O.S.(RH)		.345033		.993044	.993024	.993204			See Note 2	9, 34
176577	.Renegade™ O.S.(RH)		.345034		.993045	.993025	.993205			See Note 2	9, 34
176578	.Renegade O.S.(LH)		.345062		.993053	.993033	.993213			See Note 2	9, 34
176579	.Renegade O.S.(LH)		.345063		.993014	.993054	.993034	.993214		See Note 2	9, 34
176580	.Renegade O.S.(LH)		.345064		.993015	.993055	.993035	.993215		See Note 2	9, 34
176615	.Swept-Blade™		.345032		.993043	.993023	.993203			See Note 2	9, 34
176616	.Swept-Blade™(LH)		.345062		.993053	.993033	.993213			See Note 2	9, 34
176617	.Swept-Blade™		.345033		.993044	.993024	.993204			See Note 2	9, 34
176618	.Swept-Blade™(LH)		.345063		.993014	.993054	.993034	.993214		See Note 2	9, 34
176619	.Swept-Blade™		.345034		.993045	.993025	.993205			See Note 2	9, 34
176620	.Swept-Blade™(LH)		.345064		.993015	.993055	.993035	.993215		See Note 2	9, 34
176623	.VIPER™		.335031			.993144				.106	6, 7, 33, 35
176624	.VIPER™		.335032			.993145				.106	6, 7, 33, 35
176625	.VIPER™		.335033			.993146				.106	6, 7, 33, 35
176626	.Swept-Blade™		.345032		.993043	.993023	.993203			See Note 2	9, 34
176627	.Swept-Blade™		.345033		.993044	.993024	.993204			See Note 2	9, 34
176628	.Swept-Blade™		.345034		.993045	.993025	.993205			See Note 2	9, 34
176629	.Swept-Blade™(LH)		.345062		.993053	.993033	.993213			See Note 2	9, 34
176630	.Swept-Blade™(LH)		.345063		.993014	.993054	.993034	.993214		See Note 2	9, 34
176902	.Swept-Blade™(LH)		.345064		.993015	.993055	.993035	.993215		See Note 2	9, 34
176969	.SST®					.993044	.993024	.993204		See Note 2	9, 34
176970	.SST®					.993044	.993024	.993204		See Note 2	9, 34
176971	.SST®					.993045	.993025	.993205		See Note 2	9, 34

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #s		
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade				
EVINRUDE, JOHNSON, OMC (Continued)													
174973											.993053 .993033 .993213	See Note 2	9, 34
176999											.993046 .993026 .993206	See Note 2	9, 34
177000											.993016 .993056 .993036 .993216	See Note 2	9, 34
177034											.993143	.106	6, 7, 33, 35
177035											.993144	.106	6, 7, 33, 35
177036											.993145	.335032 .106	6, 7, 33, 35
177042											.993143	.106	6, 7, 33, 35
177131											.011024 .335031 .992104 .993144	.106	6, 7, 33, 35
177134											.992003 .993043 .993023 .993203	See Note 2	9, 34
177135											.992004 .993044 .993024 .993204	See Note 2	9, 34
177136											.992005 .993045 .993025 .993205	See Note 2	9, 34
177137											.992006 .993046 .993026 .993206	See Note 2	9, 34
177139											.011025 .335032 .992105 .993145	.106	6, 7, 33, 35
177140											.335033 .992106 .993146	.106	6, 7, 33, 35
177151											.011002 .335030 .992103 .993143	.106	6, 7, 33, 35
177153											.012037 .013081 .992301	.111	5
177159											.012111		2
177187											.012057		4
178811											.993014 .993054 .993034 .993214	See Note 2	9, 34
178814											.993044 .993024 .993204	See Note 2	9, 34
277440											.012060		2
277580											.012024		4
277581											.012024		4
277595											.012006		2
277599											.012011		3
277759											.012008		2
375605											.012109		3
376072											.012060		2
376732											.012024		4
376735											.012109		3
376738											.012027		4, 34
376777											.012060		2
376805											.012011		3
376841											.012109		3
376968											.012060		2
377410											.012023		4
377632											.012060		2
377635											.012007		2
377636											.012011		3
377978											.012044		6, 35
378039											.012045		6, 35
378579											.012025		4
378580											.012022		4
378581											.012023		4
379717											.012109		3
380104											.012004		2
380637											.012024		4
380958											.012005		2
381185											.012091		35
381186											.012092		35
381446											.012044		6, 35
381801											.012011		3
382676											.012089		35

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #s
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade		
EVINRUDE, JOHNSON, OMC (Continued)											
382761	.012047										6, 7, 33, 35
382762	.011001										6, 7, 33, 35
382763	.011002				.992103		.993143			.106	6, 7, 33, 35
382764	.011003				.992104		.993144			.106	6, 7, 33, 35
382765	.011004				.992105		.993145			.106	6, 7, 33, 35
382766	.011005				.992106		.993146			.106	6, 7, 33, 35
382768					.992106		.993146			.106	6, 7, 33, 35
383315	.012008										2
383629	.012011										3
384139	SST®						.993144			.106	6, 7, 33, 35
384140	.011005				.992106		.993146			.106	6, 7, 33, 35
384141	SST®	.013034					.993146			.106	6, 7, 33, 35
384142	SST®						.993145			.106	6, 7, 33, 35
384144	SST®						.993143			.106	6, 7, 33, 35
384702	SST®	.013034					.993146			.106	6, 7, 33, 35
385319	.012005										2
385940	SST®	.012008									2
385955	.012023										4
386118	.012111										2
386317	.012054				.992501					.118	4
386637	.012055										4
386669	.012113										2
386786	.013082				.992302					.111	5
386841	.012039	.013083			.992303					.111	5
386907	.012036	.013080									5
386908	.012040	.013084									5
386909	.012037	.013081			.992301					.111	5
386933	.012056										4
386955	.012005										2
386980	SST®	.013026	.013083								5
386981	SST®		.013082								5
386982	SST®		.013081								5
387158	.011016										9, 34
387159	.011006				.992002		.993042			See Note 2	9, 34
387160	.011007				.992003		.993043	.993203		See Note 2	9, 34
387161	.011008				.992004		.993044	.993204		See Note 2	9, 34
387162	.011009				.992005		.993045	.993205		See Note 2	9, 34
387163	.011010				.992006		.993046	.993206		See Note 2	9, 34
387334	.012008										2
387519	SST®						.993044	.993204		See Note 2	9, 34
387520	SST®						.993045	.993205		See Note 2	9, 34
387636	.012056										4
388088	.012013										3
388294	.012102										3
388883	.012016										3
389019	SST II®	.013050	.345035				.993046	.993206		See Note 2	9, 34
389029	SST®	.013032	.013084								5
389068	.012021										3
389069	.012015										3
389510	SST II®						.993145			.106	6, 7, 33, 35
389512	SST II®	.013034					.993146			.106	6, 7, 33, 35
389619	.012015										3
389788	.011005		.335033 .335034	.992106			.993146			.106	6, 7, 33, 35

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
EVINRUDE, JOHNSON, OMC (Continued)												
389855	.012023											5
389923	.SST II®		.345034			.993045		.993205		.See Note 2		9, 34
389924	.SST II®		.345033			.993044		.993204		.See Note 2		9, 34
389925	.SST®		.345032									9, 34
389948	.SST II®		.335031			.993144				.106		6, 7, 33, 35
389949	.SST II®		.335030			.993143				.106		6, 7, 33, 35
390113	.SST®					.993145				.106		6, 7, 33, 35
390114	.SST®					.993144				.106		6, 7, 33, 35
390237	.012032											2
390380	.012057		.305030									4
390725	.SST®		.345036									9, 34
390729	.SST®		.305029									3
390730	.SST®		.305030									3
390821	.SST II® (LH)	.013045	.345063			.993014	.993054	.993034	.993214	.See Note 2		9, 34
390822	.SST II® (LH)	.013047	.345064			.993015	.993055	.993035	.993215	.See Note 2		9, 34
390823	.SST II® (LH)		.345065			.993016	.993056	.993036	.993216	.See Note 2		9, 34
390833	.012024											5
390849	.SST®	.013081										5
390850	.SST®	.013082	.325030									5
390851	.SST®	.013026	.013083	.325031								5
390852	.SST®	.013032	.013084									5
390896	.011004		.335032		.992105	.993145				.106		6, 7, 33, 35
391198	.011002		.335030		.992103	.993143				.106		6, 7, 33, 35
391199	.011003		.335031		.992104	.993144				.106		6, 7, 33, 35
391200	.011007		.345032		.992003	.993043	.993023	.993203		.See Note 2		9, 34
391201	.011008		.345033		.992004	.993044	.993024	.993204		.See Note 2		9, 34
391202	.011009		.345034	.345041	.992005	.993045	.993025	.993205		.See Note 2		9, 34
391203	.011010		.345035	.345037	.992006	.993046	.993026	.993206		.See Note 2		9, 34
391290	.SST II®		.345032			.993043	.993023	.993203		.See Note 2		9, 34
391535	.011006		.345031		.992002	.993042				.See Note 2		9, 34
391536	.011016											9, 34
391668	.011001											6, 7, 33, 35
393160	.Aluminum	.011025			.992105	.993145				.106		6, 7, 33, 35
394752	.Raker®		.345032			.993043		.993203		.See Note 2		9, 34
394753	.Raker®		.345033			.993044		.993204		.See Note 2		9, 34
394754	.Raker®		.345034	.345041		.993045		.993205		.See Note 2		9, 34
394755	.Raker®		.345035	.345037		.993046		.993206		.See Note 2		9, 34
394756	.Raker®	.013074	.345036	.345038		.993047		.993207		.See Note 2		9, 34
394758	.Raker®		.335031			.993144				.106		6, 7, 33, 35
394759	.Raker®		.335032			.993145				.106		6, 7, 33, 35
394760	.Raker®	.013034	.335033	.335034		.993146				.106		6, 7, 33, 35
394761	.Raker®		.335035									7
398126	.012112											2
398502	.Raker® (LH)		.345063			.993014	.993054	.993214		.See Note 2		9, 34
398503	.Raker® (LH)		.345064			.993015	.993055	.993215		.See Note 2		9, 34
398504	.Raker® (LH)					.993016	.993056	.993216		.See Note 2		9, 34
398505	.Raker® (LH)					.993017				.See Note 2		9, 34
431717	.SHOOTER®		.435035									9, 34
431718	.SHOOTER®	.013038	.435036									9, 34
431930	.SST II® (LH)		.345062			.993053		.993213		.See Note 2		9, 34
591389	.012060											2
591920	.012024											4
591978	.012060											2

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
EVINRUDE, JOHNSON, OMC (Continued)												
592063	.012060											2
763301	.012047											6, 7, 33, 35
763302	.011001											6, 7, 33, 35
763304	.163002		.346031		.992002		.993042				.105	37
763305							.993052				.105	37
763306	.161002		.346032		.992003		.993043	.993023			.105	37
763307			.346062				.993053	.993023			.105	37
763308	.161003		.346033		.992004		.993044	.993024			.105	37
763309							.993054	.993034			.105	37
763310	.161004		.346034		.992005		.993045	.993025			.105	37
763311			.346064				.993055	.993035			.105	37
763315	.161001		.346031		.992002		.993042				.105	37
763316	.161002		.346032		.992003		.993043	.993023			.105	37
763317	.161003		.346033		.992004		.993044	.993024			.105	37
763318	.161004		.346034		.992005		.993045	.993025			.105	37
763319	.161005		.346035		.992006		.993046	.993026			.105	37
763453	.011016											9, 34
763456	.012112											2
763463	.011003		.335031		.992104		.993144				.106	6, 7, 33, 35
763464	.011004		.335032		.992105		.993145				.106	6, 7, 33, 35
763465	.011005		.335033		.992106		.993146				.106	6, 7, 33, 35
763466	.011002		.335030		.992103		.993143				.106	6, 7, 33, 35
763467	.011007		.345032		.992003		.993043	.993023		See Note 2		9, 34
763468	.011008		.345032		.992004		.993044	.993024		See Note 2		9, 34
763469	.011009		.345033		.992005		.993045	.993025		See Note 2		9, 34
763470	.011010		.345034		.992006		.993046	.993026		See Note 2		9, 34
763471	.011006		.345031		.992002		.993042			See Note 2		9, 34
763486	.012057		.305030									4
763583	.012011											3
763584	.012016											3
763585	.012021											3
763587	.012109											3
763588	.012005											2
763589	.012015											3
763590	.012030											3
775713	.012037				.992301						.111	6
776891	.011001											6, 7, 33, 35
777021		.033095	.395929				.993406				.115	5
777022		.033096					.993407				.115	5
777023		.033097	.395930				.993408				.115	5
777024	.101033		.335931		.992104		.993144			See Note 4		8
777025	.101034		.335932		.992105		.993145			See Note 4		8
777026	.101035		.335933		.992106		.993146			See Note 4		8
777029							.993154			See Note 4		8
777030							.993155			See Note 4		8
777031							.993156			See Note 4		8
778606	4-Stroke	.032045	.033093									5
778607	4-Stroke	.032044			.992404						.115	5
778608	4-Stroke	.032043	.033094		.992405		.993405				.115	5
778609	4-Stroke	.032042	.033095	.395929	.992406		.993406				.115	5
778610	4-Stroke	.032041	.033096		.992407		.993407				.115	5
778703	4-Stroke				.992503						.121	4
778704	4-Stroke				.992504						.121	4

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
EVINRUDE, JOHNSON, OMC (Continued)												
778705	4-Stroke		.305029		.992505						.121	4
778706	4-Stroke				.992506						.121	4
778772		.012111										2
778774		.013082	.325030		.992302						.111	5
778797		.012032										2
778863		.012056	.305029		.992505						.118	4
5031619	4-Stroke	.032042	.033095	.395929	.992406		.993406				.115	5
5031627	4-Stroke	.032040	.033097	.395930	.992408		.993408				.115	5
5031628	4-Stroke	.032039			.992409						.115	5
5032107	4-Stroke				.992502						.121	4
5032171	4-Stroke				.992501						.121	4
5033322	4-Stroke	.101032	.335930		.992103		.993143				.See Note 4	8
5033323	4-Stroke	.101033	.335931		.992104		.993144				.See Note 4	8
5033324	4-Stroke	.101034	.335932		.992105		.993145				.See Note 4	8
5033325	4-Stroke	.101035	.335933		.992106		.993146				.See Note 4	8
FORCE, CHRYSLER, U.S. MARINE												
48-16986A45	Vengeance		.335130				.993143				.See Note 3	13
48-16986A5	QSS™		.335130				.993143				.See Note 3	13
48-16988A40	QSS™	.033017	.335131				.993144				.See Note 3	13
48-16988A45	Vengeance	.033017	.335131				.993144				.See Note 3	13
48-16990A40	Laser II™		.335132				.993145				.See Note 3	13
48-16990A45	Laser II™		.335132				.993145				.See Note 3	13
48-16992A40	Laser II™		.335133	.335134			.993146				.See Note 3	13
48-16992A45	Laser II™		.335133	.335134			.993146				.See Note 3	13
48-19636A10					.992501						.120	10
48-19638A40	Black Max™	.031049			.992503						.120	10
48-19639A40					.992504						.120	10
48-19640A40	Black Max™	.031048	.305129		.992505						.120	10
48-19642A40	Black Max™	.031047	.305130		.992506						.120	10
48-42738A10	Black Max™	.032141			.992401						.114	11
48-42740A10	Black Max™	.032142										11
48-64724A1		.031020										11
48-64724A4		.031020										11
48-73132A4		.031015	.033088		.992403						.114	11
48-73132A40	Black Max™	.031015	.033088		.992403						.114	11
48-73134A4		.031016	.033089		.992405		.993405				.114	11
48-73134A40	Black Max™	.031016	.033089		.992405		.993405				.114	11
48-73136A4		.031017	.033090	.395129	.992406		.993406				.114	11
48-73136A40	Black Max™	.031017	.033090	.395129	.992406		.993406				.114	11
48-73138A4		.031018	.033091		.992407		.993407				.114	11
48-73138A40	Black Max™	.031018	.033091		.992407		.993407				.114	11
48-73140A4		.031019	.033092	.395130	.992408		.993408				.114	11
48-73140A40	Black Max™	.031019	.033092	.395130	.992408		.993408				.114	11
48-73142A40					.992409						.114	11
48-73144A4		.031020										11
48-73144A40	Black Max™	.031020										11
48-76228A4	QSS™		.033090	.395129			.993406				.114	11
48-76228A5	Vengeance		.033090	.395129			.993406				.114	11
48-76230A4	QSS™		.033091				.993407				.114	11
48-76230A5	Vengeance		.033091				.993407				.114	11
48-76232A4	QSS™		.033092	.395130			.993408				.114	11
48-76232A5	Vengeance		.033092	.395130			.993408				.114	11

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
FORCE, CHRYSLER, U.S. MARINE (Continued)												
48-77338A40	.031054											13
48-77338A45	.Black Max™ .031054											13
48-77338CP1	.031200											13
48-77340A40	.031055											13
48-77340A45	.Black Max™ .031055											13
48-77340CP1	.031202											13
48-77342A40	.031041		.335130		.992103		.993143				See Note 3	13
48-77342A45	.Black Max™ .031041		.335130		.992103		.993143				See Note 3	13
48-77344A40	.031042		.335131		.992104		.993144				See Note 3	13
48-77344A45	.Black Max™ .031042		.335131		.992104		.993144				See Note 3	13
48-77346A40	.031043		.335132		.992105		.993145				See Note 3	13
48-77346A45	.Black Max™ .031043		.335132		.992105		.993145				See Note 3	13
48-77348A40	.031044		.335133	.335134	.992106		.993146				See Note 3	13
48-77348A45	.Black Max™ .031044		.335133	.335134	.992106		.993146				See Note 3	13
48-77350A40	.031045											13
48-77350A45	.Black Max™ .031045											13
48-77350A45	.Black Max™ .031045											13
48-79792A4	.QSS™ .033089				.992405		.993405				.114	11
48-79792A5	.Vengeance .033089				.992405		.993405				.114	11
48-816702A40	.031056	.033089			.992405		.993405				.114	11
48-816704A40	.031057	.033090	.395129		.992406		.993406				.114	11
48-816706A40	.031058	.033091			.992407		.993407				.114	11
48-819334A40	.072133											11
48-819335A40	.072132											11
48-819336A40	.072131											11
48-819337A40	.072014											10, 11
48-819337A45	.072014											10, 11
48-855858A5	.Vengeance .031057	.033090			.992406		.993406				.114	11
48-85632A40	.Black Max™ .031053				.992404						.114	11
48-FP19	.072017											10
48-FP488	.Black Max™ .072123											10
48-FP669-1	.071035											13
48-FP669-2	.071035											12
48-FP669-3	.071035											12
48-FP685-1	.071036											12
48-FP685-2	.071036											12
48-FP685-3	.071036											12
48-FP686-1	.071037											12
48-FP686-3	.071037											12
48-FP686-4	.071037											12
48-FP692-1	.072127											12
48-FP692-2	.072127											12
48-FP692-3	.072127											12
48-FP694	.071038											12
FA282265	.072132											11
FA287265	.072131											11
FA378265	.072132											11
FP273	.072133											11
FP274	.072014											10, 11
FP276	.072014											10, 11
FP277	.072131											11
FP278	.072014											10, 11
FP282	.072132											11

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade		
FORCE, CHRYSLER, U.S. MARINE (Continued)											
FP287	.072131										11
FP293	.072132										11
FP328	.072014										10, 11
FP366	.072014										10, 11
FP378	.072132										11
FP519	.072055										12
FP523	.072107										12
FP524	.072108										12
FP623	.072107										12
FP654	.072108										12
FP665	.071035										12
FP669	.071035										12
FP669-1	.071035										12
FP682	.072127										12
FP685	.072128										12
FP685-1	.072128										12
FP686	.072129										12
FP686-1	.071037										12
FP686-2	.072129										12
FP692	.072127										12
FP692-1	.072127										12
FP694	.071038										12
FPM736	.031020										11
FPM738	.031019	.033092			.992408			.993408			11
FPM752	QSS™	.033091			.992407			.993407			11
FPM754	QSS™	.033089			.992405			.993405			11
FPM756	.031015	.033088									11
FPS519	.072055										12
FPS523	.072107										12
FPS524	.072108										12
FPS623	.072107										12
FPS625	.072108										12
FPS654	.072108										12
FPS686	.072129										12
HONDA											
08M60-ZW7-A00			.335130					.993143		See Note 3	15
08M60-ZW7-A10	.031042		.335131		.992104			.993144		See Note 3	15
08M60-ZW7-A20	.031043		.335132		.992105			.993145		See Note 3	15
08M60-ZW7-A30	.031044		.335133		.992106			.993146		See Note 3	15
08M60-ZW7-B00	(LH)							.993153		See Note 3	15
08M60-ZW7-B10	(LH)							.993154		See Note 3	15
08M60-ZW7-B20	(LH)							.993155		See Note 3	15
08M60-ZW7-B30	(LH)							.993156		See Note 3	15
58110-ZV4-300	.102005										14
58110-ZV4-DT15	.112004										14
58110-ZV5-E00		.033097	.395930					.993408		.113	15
58110-ZV5-E10		.033096						.993407		.113	15
58110-ZV5-E20		.033095	.395929					.993406		.113	15
58110-ZV5-E30		.033094						.993405		.113	15
58130-881-840ZA	.012109										14
58130-881-840ZB	.012109										14
58130-935-000N	.012109										14

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
HONDA (Continued)												
58130-935-600N	.012109											14
58130-ZV4-000ZA	.102005											14
58130-ZV4-008AH	.102003											14
58130-ZV4-009AH	.102004											14
58130-ZV4-010ZA	.102005											14
58130-ZV4-020ZA	.102005											14
58130-ZV4-030ZA	.102005											14
58130-ZV4-030ZB	.102005											14
58130-ZV4-700ZA	.102004											14
58130-ZV4-701ZA	.102004											14
58130-ZV4-702ZA	.102004											14
58130-ZV4-703ZA	.102004											14
58130-ZV4-703ZB	.102004											14
58130-ZV5-000ZA	.032042	.033095	.395929		.992406		.993406			.113		15
58130-ZV5-011AH					.992404					.113		15
58130-ZV5-012AH					.992405		.993405			.113		15
58130-ZV5-013AH					.992406		.993406			.113		15
58130-ZV5-014AH					.992407		.993407			.113		15
58130-ZV5-015AH					.992408		.993408			.113		15
58130-ZV5-850ZA	.032043	.033094			.992405		.993405			.113		15
58130-ZV5-860ZA	.032045	.033093										15
58130-ZV5-870ZA	.032040	.033097	.395930		.992408		.993408			.113		15
58130-ZV7-009AH					.992501					.119		14
58130-ZV7-010AH					.992502					.119		14
58130-ZV7-011AH					.992503					.119		14
58130-ZV7-012AH					.992504					.119		14
58130-ZW1-011AH	.031054											15
58130-ZW1-013AH	.031055											15
58130-ZW1-015AH	.031041		.335130		.992103		.993143			See Note 3		15
58130-ZW1-017AH	.031042		.335131		.992104		.993144			See Note 3		15
58130-ZW1-019AH	.031043		.335132		.992105		.993145			See Note 3		15
58130-ZW1-021AH	.031044		.335133	.335134	.992106		.993146			See Note 3		15
58130-ZW1-V01	.033017		.335131				.993144			See Note 3		15
58130-ZW1-V11			.335132				.993145			See Note 3		15
58130-ZW1-V31			.335133	.335134			.993146			See Note 3		15
58130-ZW1-W01ZA	.031054											15
58130-ZW1-W11ZA	.031055											15
58130-ZW1-W21ZA	.031041		.335130		.992103		.993143			See Note 3		15
58130-ZW1-W31ZA	.031042		.335131		.992104		.993144			See Note 3		15
58130-ZW1-W41ZA	.031044		.335133	.335134	.992106		.993146			See Note 3		15
58130-ZW1-W51ZA	.031045											15
58130-ZW1-W61ZA	.031043		.335132		.992105		.993145			See Note 3		15
58130-ZW1-W91			.335130				.993143			See Note 3		15
58130-ZY3-013A	.031022											16
58130-ZY3-015A	.031023		.345131		.992002		.993042			.107		16
58130-ZY3-017A	.031024		.345132		.992003		.993043	.993023	.993203	.107		16
58130-ZY3-019A	.031025		.345133		.992004		.993044	.993024	.993204	.107		16
58130-ZY3-021A	.031026		.345134		.992005		.993045	.993025	.993205	.107		16
58130-ZY3-023A			.345135		.992006		.993046	.993026	.993206	.107		16
58133-ZV5-010AH	.033093											15
58133-ZV5-012AH	.033094						.993405			.113		15
58133-ZV5-013AH	.033095	.395929					.993406			.113		15
58133-ZV5-014AH	.033096						.993407			.113		15

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
HONDA (Continued)												
58133-ZV5-015AH	.033097		.395930				.993408				.113	15
58133-ZV7-013AH			.305229									14
58133-ZW1-A15AH			.335130				.993143				See Note 3	15
58133-ZW1-A17AH			.335131				.993144				See Note 3	15
58133-ZW1-A19AH			.335132				.993145				See Note 3	15
58133-ZY3-A15AH			.345131				.993042				.107	16
58133-ZY3-A17AH			.345132				.993043	.993023	.993203		.107	16
58133-ZY3-A19AH			.345133				.993044	.993024	.993204		.107	16
58133-ZY3-A21AH			.345134				.993045	.993025	.993205		.107	16
58133-ZY3-A25AH			.345136								.107	16
58133-ZY3-B15AH	(LH)						.993012	.993052			.107	16
58133-ZY3-B17AH	(LH)		.345162				.993053	.993033	.993213		.107	16
58133-ZY3-B19AH	(LH)		.345163				.993014	.993054	.993034	.993214	.107	16
58133-ZY3-B21AH	(LH)						.993015	.993055	.993035	.993215	.107	16
58134-ZV5-009AH						.992402					.113	15
58134-ZV5-010AH						.992403					.113	15
58134-ZY3-A18HR									.993204		.107	16
58134-ZY3-A21HR									.993205		.107	16
58134-ZY3-B18HR									.993214		.107	16
58134-ZY3-B21HR									.993215		.107	16
58233-ZY3-A15H	.031023		.345131		.992002		.993042				.107	16
58233-ZY3-A17H	.031024		.345132		.992003		.993043	.993023	.993203		.107	16
58233-ZY3-A19H	.031025		.345133		.992004		.993044	.993024	.993204		.107	16
58233-ZY3-A21H	.031026		.345134		.992005		.993045	.993025	.993205		.107	16
58233-ZY3-A23H			.345135		.992006		.993046	.993026	.993206		.107	16
58233-ZY3-A25H	.031067		.345136								.107	16
58233-ZY3-B15H							.993012	.993052			.107	16
58233-ZY3-B17H			.345162				.993053	.993033	.993213		.107	16
58233-ZY3-B19H			.345163				.993014	.993054	.993034	.993214	.107	16
58233-ZY3-B21H			.345164				.993015	.993055	.993035	.993215	.107	16
MERCURY, MARINER, MERCUISER												
48-13701A46			.345163				.993014	.993054	.993034	.993214	.102	21, 32
48-13703A46			.345164				.993015	.993055	.993035	.993215	.102	21, 32
48-13705A46			.345165				.993016	.993056	.993036	.993216	.102	21, 32
48-18278A46			.345132				.993043	.993023			.102	21, 32
48-19841A46							.993052				.102	21, 32
48-11070A40	.Laser™		.345134	.345141			.993045	.993025	.993205		.102	21, 32
48-11074A40	.Laser™		.345135	.345137			.993046	.993026	.993206		.102	21, 32
48-11320A40		.031050			.992002		.993042				.102	21, 32
48-11322A40		.031051			.992003		.993043	.993023	.993203		.102	21, 32
48-11324A40		.031052	.345133		.992004		.993044	.993024	.993204		.102	21, 32
48-11324A45	.Black Max™	.031052	.345133		.992004		.993044	.993024	.993204		.102	21, 32
48-13244A5	.Mirage®	.033054										33
48-13244A50	.Mirage®	.033054										33
48-13245A5	.Mirage®(LH)	.033055										33
48-13245A50	.Mirage®(LH)	.033055										33
48-13247A5	.Mirage®(LH)	.033057										33
48-13247A50	.Mirage®(LH)	.033057										33
48-13248A5	.Mirage®	.033058										33
48-13248A50	.Mirage®	.033058										33
48-13701A40	.Mirage®(LH)	.033029	.345163									21, 32
48-13701A41	.Mirage®(LH)	.033029	.345163									21, 32

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
MERCURY, MARINER, MERCUISER (Continued)												
48-13701A45Mirage®Plus(LH)033029				345163								21, 32
48-13702A40Mirage®				345134								21, 32
48-13702A41Mirage®				345134								21, 32
48-13702A45Mirage®Plus				345134								21, 32
48-13702A46Mirage®Plus				345134								21, 32
48-13702A55Mirage®Plus033054												33
48-13703A40Mirage®(LH)033031				345164								21, 32
48-13703A41Mirage®(LH)033031				345164								21, 32
48-13703A45Mirage®Plus(LH)033031				345164								21, 32
48-13703A55Mirage®Plus(LH)				345164								21, 32
48-13704A40Mirage®033034				345135								21, 32
48-13704A41Mirage®033034				345135								21, 32
48-13704A45Mirage®Plus033034				345135								21, 32
48-13704A46Mirage®Plus033034				345135								21, 32
48-13705A40Mirage®(LH)033033				345165								21, 32
48-13705A41Mirage®(LH)033033				345165								21, 32
48-13705A45Mirage®Plus(LH)033033				345165								21, 32
48-13705A55Mirage®Plus(LH)033033				345165								21, 32
48-13706A40Mirage®				345136								21, 32
48-13706A41Mirage®				345136								21, 32
48-13706A45Mirage®Plus				345136								21, 32
48-13706A46Mirage®Plus				345136								21, 32
48-13707A55Mirage®Plus(LH)033057												33
48-137706A55Mirage®Plus033058												33
48-16312A4QSS™				345131 . . . . .			.993042 . . . . .			.102		21, 32
48-16312A45Vengeance				345131 . . . . .			.993042 . . . . .			.102		21, 32
48-16312A46Vengeance				345131 . . . . .			.993042 . . . . .			.102		21, 32
48-16312A5QSS™				345131 . . . . .			.993042 . . . . .			.102		21, 32
48-16314A4QSS™				345132 . . . . .			.993043 .993023 .993203 . . . . .			.102		21, 32
48-16314A45Vengeance				345132 . . . . .			.993043 .993023 .993203 . . . . .			.102		21, 32
48-16314A46Vengeance				345132 . . . . .			.993043 .993023 .993203 . . . . .			.102		21, 32
48-16314A5QSS™				345132 . . . . .			.993043 .993023 .993203 . . . . .			.102		21, 32
48-16315A4QSS™ (LH)				345162 . . . . .			.993053 .993033 .993213 . . . . .			.102		21, 32
48-16315A45Vengeance(LH)				345162 . . . . .			.993053 .993033 .993213 . . . . .			.102		21, 32
48-16315A5QSS™ (LH)				345162 . . . . .			.993053 .993033 .993213 . . . . .			.102		21, 32
48-16316A4QSS™				345133 . . . . .			.993044 .993024 .993204 . . . . .			.102		21, 32
48-16316A45Vengeance				345133 . . . . .			.993044 .993024 .993204 . . . . .			.102		21, 32
48-16316A46Vengeance				345133 . . . . .			.993044 .993024 .993204 . . . . .			.102		21, 32
48-16316A5QSS™				345133 . . . . .			.993044 .993024 .993204 . . . . .			.102		21, 32
48-16317A4QSS™ (LH)				345163 . . . . .			.993014 .993054 .993034 .993214 . . . . .			.102		21, 32
48-16317A45Vengeance(LH)				345163 . . . . .			.993014 .993054 .993034 .993214 . . . . .			.102		21, 32
48-16317A5QSS™ (LH)				345163 . . . . .			.993014 .993054 .993034 .993214 . . . . .			.102		21, 32
48-16318A4QSS™				345134 . . . . .			.993045 .993025 .993205 . . . . .			.102		21, 32
48-16318A45Vengeance				345134 . . . . .			.993045 .993025 .993205 . . . . .			.102		21, 32
48-16318A46Vengeance				345134 . . . . .			.993045 .993025 .993205 . . . . .			.102		21, 32
48-16318A5QSS™				345134 . . . . .			.993045 .993025 .993205 . . . . .			.102		21, 32
48-16319A4QSS™ (LH)				345164 . . . . .			.993015 .993055 .993035 .993215 . . . . .			.102		21, 32
48-16319A45Vengeance(LH)				345164 . . . . .			.993015 .993055 .993035 .993215 . . . . .			.102		21, 32
48-16319A5QSS™ (LH)				345164 . . . . .			.993015 .993055 .993035 .993215 . . . . .			.102		21, 32
48-16320A4QSS™				345135 . . . . .			.993046 .993026 .993206 . . . . .			.102		21, 32
48-16320A4QSS™				345135 . . . . .			.993046 .993026 .993206 . . . . .			.102		21, 32
48-16320A45QSS™				345135993046 .993026 .993206102		21, 32
48-16320A45Vengeance				345135993046 .993026 .993206102		21, 32

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #s
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade		
MERCURY, MARINER, MERCUISER (Continued)											
48-16320A46 Vengeance . . . . .			.345135 . . . . .			.993046 . . . . .	.993026 . . . . .	.993206 . . . . .		.102	21, 32
48-16320A5 QSS™ . . . . .			.345135 . . . . .			.993046 . . . . .	.993026 . . . . .	.993206 . . . . .		.102	21, 32
48-16320A5 QSS™ . . . . .			.345135 . . . . .			.993046 . . . . .	.993026 . . . . .	.993206 . . . . .		.102	21, 32
48-16321A4 QSS™ (LH) . . . . .			.345165 . . . . .		.993016 . . . . .	.993056 . . . . .	.993036 . . . . .	.993216 . . . . .		.102	21, 32
48-16321A45 Vengeance(LH) . . . . .			.345165 . . . . .		.993016 . . . . .	.993056 . . . . .	.993036 . . . . .	.993216 . . . . .		.102	21, 32
48-16321A5 QSS™ (LH) . . . . .			.345165 . . . . .		.993016 . . . . .	.993056 . . . . .	.993036 . . . . .	.993216 . . . . .		.102	21, 32
48-16322A4 QSS™ . . . . .			.345136 . . . . .							.102	21, 32
48-16322A45 . . . . .			.345136 . . . . .							.102	21, 32
48-16322A46 Vengeance . . . . .			.345136 . . . . .							.102	21, 32
48-16436A40 . . . . .	.031063										21, 32
48-16436A45 Black Max™ . . . . .	.031063										21, 32
48-16438A40 . . . . .	.031050 . . . . .				.992002 . . . . .	.993042 . . . . .				.102	21, 32
48-16438A45 Black Max™ . . . . .	.031050 . . . . .				.992002 . . . . .	.993042 . . . . .				.102	21, 32
48-16440A40 . . . . .	.031051 . . . . .				.992003 . . . . .	.993043 . . . . .	.993023 . . . . .	.993203 . . . . .		.102	21, 32
48-16440A45 Black Max™ . . . . .	.031051 . . . . .				.992003 . . . . .	.993043 . . . . .		.993203 . . . . .		.102	21, 32
48-16543A40 Laser II™(LH) . . . . .			.345163 . . . . .		.993014 . . . . .	.993054 . . . . .	.993034 . . . . .	.993214 . . . . .		.102	21, 32
48-16543A41 Laser II™(LH) . . . . .			.345163 . . . . .		.993014 . . . . .	.993054 . . . . .	.993034 . . . . .	.993214 . . . . .		.102	21, 32
48-16543A45 Laser II™(LH) . . . . .			.345163 . . . . .		.993014 . . . . .	.993054 . . . . .	.993034 . . . . .	.993214 . . . . .		.102	21, 32
48-16544A40 Laser II™ . . . . .			.345133 . . . . .		.993044 . . . . .	.993024 . . . . .	.993204 . . . . .			.102	21, 32
48-16544A41 Laser II™ . . . . .			.345133 . . . . .		.993044 . . . . .	.993024 . . . . .	.993204 . . . . .			.102	21, 32
48-16544A45 Laser II™ . . . . .			.345133 . . . . .		.993044 . . . . .	.993024 . . . . .	.993204 . . . . .			.102	21, 32
48-16544A46 Laser II™ . . . . .			.345133 . . . . .		.993044 . . . . .	.993024 . . . . .	.993204 . . . . .			.102	21, 32
48-16545A40 Laser II™(LH) . . . . .			.345164 . . . . .		.993015 . . . . .	.993055 . . . . .	.993035 . . . . .	.993215 . . . . .		.102	21, 32
48-16545A41 Laser II™(LH) . . . . .			.345164 . . . . .		.993015 . . . . .	.993055 . . . . .	.993035 . . . . .	.993215 . . . . .		.102	21, 32
48-16545A45 Laser II™(LH) . . . . .			.345164 . . . . .		.993015 . . . . .	.993055 . . . . .	.993035 . . . . .	.993215 . . . . .		.102	21, 32
48-16546A40 Laser II™ . . . . .			.345134 . . . . .		.993045 . . . . .	.993025 . . . . .	.993205 . . . . .			.102	21, 32
48-16546A41 Laser II™ . . . . .			.345134 . . . . .		.993045 . . . . .	.993025 . . . . .	.993205 . . . . .			.102	21, 32
48-16546A45 Laser II™ . . . . .			.345134 . . . . .		.993045 . . . . .	.993025 . . . . .	.993205 . . . . .			.102	21, 32
48-16547A40 Laser II™(LH) . . . . .			.345165 . . . . .		.993016 . . . . .	.993056 . . . . .	.993036 . . . . .	.993216 . . . . .		.102	21, 32
48-16547A41 Laser II™(LH) . . . . .			.345165 . . . . .		.993016 . . . . .	.993056 . . . . .	.993036 . . . . .	.993216 . . . . .		.102	21, 32
48-16547A45 Laser II™(LH) . . . . .			.345165 . . . . .		.993016 . . . . .	.993056 . . . . .	.993036 . . . . .	.993216 . . . . .		.102	21, 32
48-16548A40 Laser II™ . . . . .			.345135 . . . . .		.993046 . . . . .	.993026 . . . . .	.993206 . . . . .			.102	21, 32
48-16548A41 Laser II™ . . . . .			.345135 . . . . .		.993046 . . . . .	.993026 . . . . .	.993206 . . . . .			.102	21, 32
48-16548A45 Laser II™ . . . . .			.345135 . . . . .		.993046 . . . . .	.993026 . . . . .	.993206 . . . . .			.102	21, 32
48-16549A40 Laser II™(LH) . . . . .					.993017 . . . . .					.102	21, 32
48-16549A41 Laser II™(LH) . . . . .					.993017 . . . . .					.102	21, 32
48-16549A45 Laser II™(LH) . . . . .					.993017 . . . . .					.102	21, 32
48-16550A40 Laser II™ . . . . .			.345136 . . . . .							.102	21, 32
48-16550A41 Laser II™ . . . . .			.345136 . . . . .							.102	21, 32
48-16550A45 Laser II™ . . . . .			.345136 . . . . .							.102	21, 32
48-16986A45 Vengeance . . . . .					.993143				See Note 3		20
48-16986A5 QSS™ . . . . .					.993143				See Note 3		20
48-16988A45 Vengeance . . . . .	.033017 . . . . .				.993144				See Note 3		20
48-16988A5 QSS™ . . . . .	.033017 . . . . .				.993144				See Note 3		20
48-16990A40 Laser II™ . . . . .			.335132 . . . . .		.993145				See Note 3		20
48-16990A45 Laser II™ . . . . .			.335132 . . . . .		.993145				See Note 3		20
48-16992A40 Laser II™ . . . . .			.335133 . . . . .		.993146				See Note 3		20
48-16992A45 Laser II™ . . . . .			.335133 . . . . .		.993146				See Note 3		20
48-17874A12 . . . . .	.032050										17
48-19638A40 Black Max™ . . . . .	.031049 . . . . .				.992503 . . . . .				.120		17
48-19640A40 Black Max™031048305129992505120		17
48-19642A40 Black Max™031047305130992506120		17
48-30388A1031042										20

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade		
MERCURY, MARINER, MERCUISER (Continued)											
48-30390A1	.031041										20
48-30396A1	.031054										20
48-30396A3	.031054										20
48-30396A4	.031054										20
48-31072A4	.031041										20
48-31080A1	.031042										20
48-31082A1	.031041										20
48-31454A3	.031043										20
48-31456A3	.031042										20
48-31458A3	.031041										20
48-32264A3	.031041										20
48-32386A3	.031043										20
48-32386A4	.031045										20
48-32388A3	.031042										20
48-32390A3	.031055										20
48-32392A3	.031054										20
48-32392A4	.031055										20
48-32746A3	.031043										20
48-32748A3	.031042										20
48-32750A3	.031042										20
48-33480A1	.032135										17
48-33482A1	.032136										17
48-35936A3	.031054										20
48-35936A4	.032039										20
48-36008A1					.992006		.993042			.102	21, 32
48-36010A1	.031026				.992005		.993045	.993205		.102	21, 32
48-36010A4					.992006		.993046	.993206		.102	21, 32
48-36012A1	.031052				.992004		.993044	.993204		.102	21, 32
48-36012A4	.031026				.992005		.993045	.993205		.102	21, 32
48-36012A5	.031051				.992002		.993043	.993203		.102	21, 32
48-36014A1	.031051				.992002		.993043	.993203		.102	21, 32
48-36014A4	.031052				.992004		.993044	.993204		.102	21, 32
48-36016A4	.031051				.992002		.993043	.993203		.102	21, 32
48-36018A1	.031022										21, 32
48-36020A1	.031022										21, 32
48-36020A4	.031022										21, 32
48-36022A1	.031021										21, 32
48-36022A4	.031021										21, 32
48-37902A4	.031042										20
48-42522A10	.032052										17
48-42522A11	.032052										17
48-42522A12	.032052										17
48-42738A10	.Black Max™ .032141										19
48-42740A10	.Black Max™ .032142										19
48-43584A40	.031049				.992503					.120	17
48-43586A40	.031048	.305129			.992505					.120	17
48-43590A40	.031047	.305130			.992506					.120	17
48-47670A1	.032020										17
48-47670A10	.032020										17
48-47670A3	.032020										17
48-47922A1	.032021										17
48-47922A10	.032021										17
48-47926A1	.032019										17

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
MERCURY, MARINER, MERCUISER (Continued)												
48-47926A10	.032019											17
48-49632A3	.031042											20
48-49632A4	.031043											20
48-49634A1	.031052				.992004		.993044		.993204		.102	21, 32
48-49634A4	.031052				.992004		.993044		.993204		.102	21, 32
48-52008A3	.031045											20
48-52008A4	.031045											20
48-52012A3	.031045											20
48-53892A3	.031043											20
48-53896A3	.031042											20
48-53896A4	.031043				.992105		.993145				.See Note 3	20
48-53900A3	.031041											20
48-58422A1	.031051				.992003		.993043		.993203		.102	21, 32
48-58422A4	.031052				.992004		.993044		.993204		.102	21, 32
48-58424A4	.031026				.992005		.993045		.993205		.102	21, 32
48-58426A1	.031026				.992005		.993045		.993205		.102	21, 32
48-58426A4					.992006		.993046		.993206		.102	21, 32
48-58826A3	.031054											20
48-58826A4	.031055											20
48-61812A1	.032045	.033093										19
48-61812A4	.032045	.033093										19
48-61814A1	.032044				.992404						.114	18, 19
48-61814A4	.032044				.992404						.114	18, 19
48-61816A1	.032043	.033094	.395929		.992405		.993405				.114	18, 19
48-61816A4	.032043	.033094	.395929		.992405		.993405				.114	18, 19
48-61818A1	.032042	.033095	.395929		.992406		.993406				.114	18, 19
48-61818A4	.032042	.033095	.395929		.992406		.993406				.114	18, 19
48-61820A1	.032041	.033096			.992407		.993407				.114	18, 19
48-61820A4	.032041	.033096			.992407		.993407				.114	18, 19
48-61822A1	.032040	.033097	.395930		.992408		.993408				.114	18, 19
48-61822A4	.032040	.033097	.395930		.992408		.993408				.114	18, 19
48-61824A1	.032039				.992409						.114	18, 19
48-62274A1	.032045	.033093										18, 19
48-62274A4	.032045	.033093										19
48-63538A1	.032039											19
48-63540A1	.032040	.033097	.395930		.992408		.993408				.114	18, 19
48-63542A1	.032041	.033096			.992407		.993407				.114	18, 19
48-63542A4	.032041	.033096			.992407		.993407				.114	18, 19
48-63544A1	.032042	.033095	.395929		.992406		.993406				.114	18, 19
48-63544A4	.032042	.033095	.395929		.992406		.993406				.114	18, 19
48-63546A4	.032043	.033095	.395929		.992406		.993406				.114	18, 19
48-64724A1	.031020											19
48-64724A4	.031020											19
48-65022A1	.031041											20
48-65024A1	.031042											20
48-65480A1					.992006		.993046		.993206		.102	21, 32
48-65588A1	.031042											20
48-65588A4	.031042											20
48-65736A1	.031045											20
48-65736A4	.031045											20
48-65748A1	.031041											20
48-65992A1	.031026				.992005		.993045		.993205		.102	21, 32
48-65992A4	.031026				.992005		.993045		.993205		.102	21, 32

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade		
MERCURY, MARINER, MERCUISER (Continued)											
48-66432A1	.031051				.992003		.993043		.993203	.102	21, 32
48-66432A4	.031052				.992004		.993044		.993204	.102	21, 32
48-66450A4	.031051				.992003		.993043		.993203	.102	21, 32
48-67280A1	.031043										20
48-67874A4					.992006		.993046		.993206	.102	21, 32
48-68558A4	Cleaver™ .033054										33
48-73132A4	.031015	.033088									19
48-73132A40	.Black Max™ .031015	.033088									19
48-73134A4	.031016	.033089			.992405		.993405			.114	19
48-73134A40	.Black Max™ .031016	.033089			.992405		.993405			.114	19
48-73136A4	.031017	.033090	.395129		.992406		.993406			.114	19
48-73136A40	.Black Max™ .031017	.033090	.395129		.992406		.993406			.114	19
48-73138A4	.031018	.033091			.992407		.993407			.114	19
48-73138A40	.Black Max™ .031018	.033091			.992407		.993407			.114	19
48-73140A4	.031019	.033092	.395130		.992408		.993408			.114	19
48-73140A40	.Black Max™ .031019	.033092	.395130		.992408		.993408			.114	19
48-73142A40					.992409					.114	19
48-73144A4	.031020										19
48-73144A40	.Black Max™ .031020										19
48-73500A4	.031021										21, 32
48-73502A4	.031022										21, 32
48-73504A4	.031023				.992002		.993042			.102	21, 32
48-73506A4	.031024				.992003		.993043		.993203	.102	21, 32
48-73508A4	.031025				.992004		.993044		.993204	.102	21, 32
48-73510A4	.031026				.992005		.993045		.993205	.102	21, 32
48-73512A4					.992006		.993046		.993206	.102	21, 32
48-73980A4	QSS™						.993044		.993204	.102	21, 32
48-73980A5	QSS™						.993044		.993204	.102	21, 32
48-73982A4	QSS™						.993045		.993205	.102	21, 32
48-73982A5	QSS™						.993045		.993205	.102	21, 32
48-74266A4	QSS™						.993044		.993204	.102	21, 32
48-74268A4	QSS™						.993045		.993205	.102	21, 32
48-74600A4	Cleaver™ .033054										33
48-74601A4	Cleaver™ .033055										33
48-74603A4	Mirage® .033057										33
48-74604A4	Mirage® .033058										33
48-74872A4	.031051				.992003		.993043		.993203	.102	21, 32
48-74874A4	.031052				.992004		.993044		.993204	.102	21, 32
48-74876A4	.031026				.992005		.993045		.993205	.102	21, 32
48-74886A4	.031052				.992004		.993044		.993204	.102	21, 32
48-74888A4	.031026				.992005		.993045		.993205	.102	21, 32
48-75058A4	QSS™						.993046		.993206	.102	21, 32
48-75160A4					.992006		.993046		.993206	.102	21, 32
48-75724A4	QSS™						.993046		.993206	.102	21, 32
48-75724A5	QSS™						.993046		.993206	.102	21, 32
48-75760A4	.031023				.992002		.993042			.102	21, 32
48-76230A4	QSS™ .033091						.993407			.114	19
48-76230A5	Vengeance .033091						.993407			.114	19
48-76232A4	QSS™ .033092	.395130					.993408			.114	19
48-76232A5	Vengeance .033092	.395130					.993408			.114	19
48-77338A33	.Black Max™ .031054										20
48-77338A4	.031054										20
48-77338A40	.031054										20

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
MERCURY, MARINER, MERCUISER (Continued)												
48-77338A45Black Max™031054												20
48-77338CP1												20
48-77340A4												20
48-77340A40												20
48-77340A45Black Max™031055												20
48-77340CP1												20
48-77342A4031041335130992103993143											See Note 3	20
48-77342A40031041335130992103993143											See Note 3	20
48-77342A45Black Max™031041335130992103993143											See Note 3	20
48-77344A4031042335131992104993144											See Note 3	20
48-77344A40031042335131992104993144											See Note 3	20
48-77344A45Black Max™031042335131992104993144											See Note 3	20
48-77346A4031043335132992105993145											See Note 3	20
48-77346A40031043335132992105993145											See Note 3	20
48-77346A45Black Max™031043335132992105993145											See Note 3	20
48-77348A4031044335133335134992106993146											See Note 3	20
48-77348A40031044335133335134992106993146											See Note 3	20
48-77348A45Black Max™031044335133335134992106993146											See Note 3	20
48-77350A4031045												20
48-77350A40031045												20
48-77350A45Black Max™031045												20
48-78112A4031021												21, 32
48-78112A40031021												21, 32
48-78112A45Black Max™031021												21, 32
48-78114A4031022												21, 32
48-78114A40031022												21, 32
48-78114A45Black Max™031022												21, 32
48-78116A4031023345131992002993042102												21, 32
48-78116A40031023345131992002993042102												21, 32
48-78116A45Black Max™031023345131992002993042102												21, 32
48-78118A4031024345132992003993043993023993203102												21, 32
48-78118A40031024345132992003993043993023993203102												21, 32
48-78118A45Black Max™031024345132992003993043993023993203102												21, 32
48-78120A4031025345133992004993044993024993204102												21, 32
48-78120A40031025345133992004993044993024993204102												21, 32
48-78120A45Black Max™031025345133992004993044993024993204102												21, 32
48-78122A4031026345134345141992005993045993025993205102												21, 32
48-78122A40031026345134345141992005993045993025993205102												21, 32
48-78122A45Black Max™031026345134345141992005993045993025993205102												21, 32
48-78124A4031027345135345137992006993046993026993206102												21, 32
48-78124A40031027345135345137992006993046993026993206102												21, 32
48-78124A45Black Max™031027345135345137992006993046993026993206102												21, 32
48-78126A4031067345136345138992007												21, 32
48-78126A40031067345136345138992007												21, 32
48-78126A45Black Max™031067345136345138992007												21, 32
48-79572A4031051												21, 32
48-79574A4												21
48-79576A4												21
48-79578A4												21
48-79792A4QSS™033089993405											114	19
48-79792A5Vengeance033089993405											114	19
48-79794A4QSS™												21, 32
48-79794A5QSS™												21, 32

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
MERCURY, MARINER, MERCUISER (Continued)												
48-79830A4	..... QSS™						.993043	.993023	.993203	.....	102	21, 32
48-81645M	..... .022002											18
48-81647M	..... .022001											18
48-81649M	..... .022002											18
48-816702A40	..... .Black Max™	.031056	.033089		.992405		.993405				.114	19
48-816704A40	..... .Black Max™	.031057	.033090	.395129	.992406		.993406				.114	19
48-816706A40	..... .Black Max™	.031058	.033091		.992407		.993407				.114	19
48-82767	..... .012102											18
48-82768	..... .012011											18
48-828152A12	..... .Black Max™	.032056										17
48-828156A12	..... .Black Max™	.032052										17
48-828158A12	..... .Black Max™	.032050										17
48-82826	..... .022003											18
48-832828A45	..... .Black Max™	.031064		.345132	.992003		.993043	.993023	.993203	.....	102	21, 32
48-832830A45	..... .Black Max™	.031065		.345133	.992004		.993044	.993024	.993204	.....	102	21, 32
48-832832A45	..... .Black Max™	.031066		.345134	.992005		.993045	.993025	.993205	.....	102	21, 32
48-832834A45	..... .Black Max™			.345135	.992006		.993046	.933026	.993206	.....	102	21, 32
48-85632A4	..... .031053				.992404						.114	19
48-85632A40	..... .Black Max™	.031053			.992404						.114	19
48-86848A4	..... .031048											17
48-86962A4	..... .032136											17
48-878612A40	..... .Trophy Sport	.031016	.033089				.993405					19
48-88438A4	..... QSS™						.993043		.993203	.....	102	21, 32
48-88440A4	..... QSS™						.993044		.993204	.....	102	21, 32
48-88442A4	..... QSS™	.033009					.993045		.993205	.....	102	21, 32
48-88444A4	..... QSS™						.993046		.993206	.....	102	21, 32
48-89852A4	..... .031049											17
48-89854A4	..... .031047											17
48-93272A4	..... QSS™						.993042			.....	102	21, 32
48-93272A5	..... QSS™						.993042			.....	102	21, 32
48-96623M	..... .012013											18
48-96625M	..... .012011											18
48-96628M	..... .012102											18
48-825860A47				.345133			.993044	.993024		.....	102	21, 32
48-825862A47				.345134			.993045	.993025		.....	102	21, 32
48-825866A47				.345136								21, 32
48-825872A47				.345139								21
48-825874A47				.345138								21
48-825938A47				.435135								21
48-825942A47				.435136								21
48-825946A47				.435137								21
48-855856A5		.033089										19
48-855858A5		.033090	.395129									19
48-855860A5		.033091										19
48-855862A5		.033092	.395130									19
48-90159A46				.345162			.993053	.993033		.....	102	21, 32
QA1912X	..... .031064			.345132	.992003		.993043	.993023	.993203	.....	102	21, 32
QA1916X	..... .031065			.345133	.992004		.993044	.993024	.993204	.....	102	21, 32
QA1918X	..... .031066			.345134	.992005		.993045	.993025	.993205	.....	102	21, 32
QA1920X				.345135	.992006		.993046	.993026	.993206	.....	102	21, 32
QA1920X				.345135	.992006		.993046	.993026	.993206	102	21, 32
QA2000X031021											21, 32
QA2002X031063											21, 32

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
MERCURY, MARINER, MERCUISER (Continued)												
QA2004X	.031022											21, 32
QA2006X	.031050		.345131									21, 32
QA2008X	.031023		.345131		.992002		.993042				.102	21, 32
QA2010X	.031051		.345132		.992003		.993043	.993023	.993203		.102	21, 32
QA2012X	.031024		.345132		.992003		.993043	.993023	.993203		.102	21, 32
QA2014X	.031052		.345133		.992004		.993044	.993024	.993204		.102	21, 32
QA2016X	.031025		.345133		.992004		.993044	.993024	.993204		.102	21, 32
QA2018X	.031026		.345134		.992005		.993045	.993025	.993205		.102	21, 32
QA2022X	.031067		.345136								.102	21, 32
QA2028X	.031043				.992105		.993145				.See Note 3	20
QA2030X	.031054											20
QA2032X	.031055											20
QA2034X	.031041		.335130		.992103		.993143				.See Note 3	20
QA2036X	.031042		.335131		.992104		.993144				.See Note 3	20
QA2040X	.031044		.335133		.992106		.993146				.See Note 3	20
QA2042X	.031045											20
QA2060R	.032141											19
QA2064R	.031015	.033088										19
QA2064R	.032044				.992404						.114	18, 19
QA2064R	.032045	.033093										18, 19
QA2066R	.032142											19
QA2070R	.031053				.992404						.114	19
QA2072R	.031056	.033089			.992405		.993405				.114	19
QA2074R	.031016	.033089			.992405		.993405				.114	19
QA2076R	.031057	.033090	.395129		.992406		.993406				.114	19
QA2078R	.031017	.033090	.395129		.992406		.993406				.114	19
QA2078R	.032042	.033095	.395929		.992406		.993406				.114	18, 19
QA2078R	.032043	.033094			.992405		.993405				.114	18, 19
QA2080R	.031058	.033091			.992407		.993407				.114	19
QA2082R	.031018	.033091			.992407		.993407				.114	19
QA2082R	.032041	.033096			.992407		.993407				.114	18, 19
QA2084R	.031019	.033092	.395130		.992408		.993408				.114	19
QA2084R	.032040	.033097	.395930		.992408		.993408				.114	18, 19
QA2084R	.032039				.992409		.993409				.114	18, 19
QA2088R	.031020											19
QA2102R	.031049				.992503						.120	17
QA2106R	.031048		.305129		.992505						.120	17
QA2108R	.031047		.305130		.992506						.120	17
QA2124R	.032056											17
QA2128R	.032052											17
QA2130R	.032050											17
QA2226R	.032044				.992404		.993405				.114	18, 19
QA2230R	.032042	.033095	.395929		.992406		.993406				.114	18, 19
QA2232R	.032041	.033096			.992407		.993407				.114	18, 19
QA2234R	.032040	.033097	.935930		.992408		.993408				.114	18, 19
QA3150R	.012011											18
QA3808R	.022002											18
QA3812R	.022003											18
QA6000	QA3	.031021										21, 32
QA6004	QA3	.031022										21, 32
QA6010	QA3	.031051										21, 32
QA6012	QA3	.031024			.992003		.993043		.993203		.102	21, 32
QA6016	QA3	.031025			.992004		.993044		.993204		.102	21, 32

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
MERCURY, MARINER, MERCUISER (Continued)												
QA6018	QA3	.031026			.992005		.993045		.993205		.102	21, 32
QA6020	QA3				.992006		.993046		.993206		.102	21, 32
QA6030	QA3	.031054										20
QA6032	QA3	.031055										20
QA6034	QA3	.031041			.992103		.993143				.See Note 3	20
QA6036	QA3	.031042			.992104		.993144				.See Note 3	20
QA6038	QA3	.031043			.992105		.993145				.See Note 3	20
QA6040	QA3	.031044			.992106		.993146				.See Note 3	20
QA6042	QA3	.031045										20
QA6060T	QA3	.032141										19
QA6064T	QA3	.031015									.114	19
QA6070T	QA3	.031053				.992404					.114	19
QA6074T	QA3	.031016	.033089			.992405	.993405				.114	19
QA6078T	QA3	.031017				.992406	.993406				.114	19
QA6082T	QA3	.031018	.033091			.992407	.993407				.114	19
QA6084T	QA3	.031019	.033092			.992408	.993408				.114	19
QA6102T	QA3	.031049				.992503					.120	17
QA6106T	QA3	.031048		.305129		.992505					.120	17
QA6128T	QA3	.032021										17
QS5006X			.345133		.992004		.993044	.993024	.993204		.102	21
QS5007X		.033029	.345163			.993014	.993054	.993034	.993214		.102	21, 32
QS5008X			.345134		.992005		.993045	.993025	.993205		.102	21, 32
QS5009X		.033031	.345164			.993015	.993055	.993035	.993215		.102	21, 32
QS5010X		.033034	.345135		.992006		.993046	.993026	.993206		.102	21, 32
QS5011X		.033033	.345165			.993016	.993056	.993036	.993216		.102	21, 32
QS5050X			.345131		.992002		.993042				.102	21
QS5052X			.345132		.992003		.993043	.993023	.993203		.102	21, 32
QS5052X			.345132		.992003		.993043	.993023	.993203		.102	21, 32
QS5053X			.345162			.993053	.993033	.993213			.102	21
QS5054X			.345133		.992004		.993044	.993024	.993204		.102	21, 32
QS5054X			.345133		.992004		.993044	.993024	.993204		.102	21, 32
QS5056X			.345134		.992005		.993045	.993025	.993205		.102	21
QS5056X			.345134		.992005		.993045	.993025	.993205		.102	21
QS5058X			.345135		.992006		.993046	.993026	.993206		.102	21, 32
QS5070X			.345133		.992004		.993044	.993024	.993204		.102	21, 32
QS5071X			.345163			.993014	.993054	.993034	.993214		.102	21
QS5072X			.345134		.992005		.993045	.993025	.993205		.102	21
QS5073X			.345164			.993015	.993055	.993035	.993215		.102	21
QS5074X			.345135	.345141	.992006		.993046	.993026	.993206		.102	21
QS5075X			.345165			.993016	.993056	.993036	.993216		.102	21
QS5076X			.345136	.345137							.102	21
QS5076X				.345139								21
QS5077X						.993017					.102	21
QS5116X			.335130		.992103		.993143				.102	20
QS5118X			.335131		.992104		.993144				.102	20
QS5120X			.335132		.992105		.993145				.102	20
QS5122X			.335133	.335134	.992106		.993146				.102	20
QS5124X			.335135									20
QS5164R		.033089					.993405				.114	19
QS5164R		.033094					.993405				.114	19
QS5164R		.033094					.993405				.114	19
QS5166R		.033090	.395129				.993406				.114	19
QS5166R		.033095	.395929				.993406				.114	19

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade		
MERCURY, MARINER, MERCUISER (Continued)											
QS5168R .....	.033091	.395130				.993407				.114	19
QS5168R .....	.033091	.395130				.993407				.114	19
QS5168R .....	.033096					.993407				.114	19
QS5170R .....	.033092	.395130				.993408				.114	19
QS5170R .....	.033097	.395930				.993408				.114	19
QS5180R .....		.305129									17
TA1916X .....Black Diamond XT	.031065	.345133			.992004	.993044	.993024	.993204		.102	21, 32
TA1918X .....Black Diamond XT	.031066	.345134			.992005	.993045	.993025	.993205		.102	21, 32
TA1920X .....Black Diamond XT	.031039	.345135			.992006	.993046	.993026	.993206		.102	21, 22
TA2000 .....	.031021										21, 32
TA2004X .....	.031034										21, 32
TA2008 .....	.031023				.992002	.993042				.102	21, 32
TA2010 .....	.031051				.992003	.993043	.993023	.993203		.102	21, 32
TA2012 .....	.031024				.992003	.993043	.993023	.993203		.102	21, 32
TA2014 .....	.031052				.992004	.993044	.993024	.993204		.102	21, 32
TA2016 .....	.031025				.992004	.993044	.993024	.993204		.102	21, 32
TA2018 .....	.031026				.992005	.993045	.993025	.993205		.102	21, 32
TA2020 .....					.992006	.993046	.993026	.993206		.102	21, 32
TA2022X .....	.031067				.992007					.102	21, 32
TA2034 .....	.031041				.992103	.993143				See Note 3	20
TA2036 .....	.031042				.992104	.993144				See Note 3	20
TA2038 .....	.031043				.992105	.993145				See Note 3	20
TA2040 .....	.031044				.992106	.993146				See Note 3	20
TA2048 .....	.031041				.992103	.993143				See Note 3	20
TA2050 .....	.031042				.992104	.993144				See Note 3	20
TA2052 .....	.031043				.992105	.993145				See Note 3	20
TA2054 .....	.031044				.992106	.993146				See Note 3	20
TA2060T .....	.032141										19
TA2064T .....	.031015	.033088									19
TA2066T .....	.032142										19
TA2070T .....	.031053										19
TA2072T .....	.031056	.033089									19
TA2074T .....	.031016	.033089									19
TA2076T .....	.031057	.033090									19
TA2078T .....	.031017	.033090									19
TA2080T .....	.031058	.033091									19
TA2082T .....	.031018	.033091									19
TA2084T .....	.031019	.033092									19
TA2088T .....	.031022										21, 32
TA2106T .....	.031048										17
TA2128T .....	.032052										17
TA2202 .....	.031044				.992106	.993146				See Note 3	20
TA2204 .....	.031043				.992105	.993145				See Note 3	20
TA2206 .....	.031042				.992104	.993144				See Note 3	20
TA2208 .....	.031041				.992103	.993143				See Note 3	20
TA3150T .....	.012011										18
TA3152T .....	.012013										18
TA3808T .....	.022002										18
TS1007 .....	.033029										21, 32
TS1011 .....	.033033										21, 32
TS1052 .....	.Silverado					.993043	.993023	.993203		.102	21, 32
TS1053Silverado					.993053	.993033	.993213		.102	21, 32
TS1054Silverado					.993044	.993024	.993204		.102	21, 32

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade		
MERCURY, MARINER, MERCUISER (Continued)											
TS1055 Silverado					.993014	.993054	.993034	.993214		.102	21, 32
TS1056 Silverado						.993045	.993025	.993205		.102	21
TS1057 Silverado					.993015	.993055	.993035	.993215		.102	21
TS1070 Lightspeed						.993044	.993024	.993204		.102	21
TS1071 Lightspeed					.993014	.993054	.993034	.993214		.102	21
TS1072 Lightspeed						.993045	.993025	.993205		.102	21
TS1073 Lightspeed					.993015	.993055	.993035	.993215		.102	21
TS1074 Lightspeed						.993046	.993026	.993206		.102	21
TS1075 Lightspeed					.993016	.993056	.993036	.993216		.102	21
TS1077 Lightspeed					.993017					.102	21
TS1116 Silverado						.993143				.See Note 3	20
TS1118 Silverado						.993144				.See Note 3	20
TS1120 Lightspeed						.993145				.See Note 3	20
TS1122 Lightspeed						.993146				.See Note 3	20
TS1164T Silverado		.033089				.993405				.114	19
TS1166T Silverado		.033090				.993406				.114	19
TS1168T Silverado		.033091				.993407				.114	19
NISSAN, TOHATSU											
34664-1015M . . . . .					.992501					.122	23
34664-1025M . . . . .					.992502					.122	23
34664-1055M . . . . .					.992506					.122	23
346-64106-5	142020										23
348-64101-0		143001									23
348-64102-0		143003				.993406				.116	23
348-64103-0	142004	143004				.993407				.116	23
348-64104-0		143002				.993405				.116	23
348-64105-0-not available		143001									23
353-64103-0	142005	.013080									24
353-64104-0 . . . . .		.013080									24
353-64105-0	142006	.013081			.992301					.112	24
35364-1050M . . . . .					.992301					.112	24
353-64106-0 . . . . .		.013082									24
353-64107-0	142007	.013082			.992302					.112	24
35364-1070M . . . . .					.992302					.112	24
353-64108-0	142008	.013082									24
353-64109-0	142009	.013083			.992303					.112	24
35364-1090M . . . . .					.992303					.112	24
361-64102-0 . . . . .					.992406					.116	23
361-64103-0 . . . . .					.992407					.116	23
361-64109-0		143001									23
361-64113-0	142001	143001			.992404					.116	23
361-64114-0	142002	143001			.992405					.116	23
362-64102-0	142017										23
B7-64532-0 . . . . .			.335930		.992103		.993143			.See Note 4	24
3B7-64536-0 . . . . .			.335931		.992103		.993143			.See Note 4	24
3B7-64541-0 . . . . .			.335932		.992104		.993144			.See Note 4	24
3B7-64545-0	142013		.335933		.992105		.993145			.See Note 4	24
3B7-64549-0 . . . . .			.335933								24
3C7645140 . . . . .			.335932		.992104		.993144			.See Note 4	24
3C7645360335931		.992104		.993144			.See Note 4	24
3E3-64526-0		143002									23
3E3-64528-0		143003									23

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
NISSAN, TOHATSU (Continued)												
3E3-64531-0		143004										23
3R064-5250M						.992504					.122	23
NM889210130			.305429									23
NM889410120		143002										23
NM889410130		143003										23
NM889410140		143004										23
NM889410150		143005										23
NM889510150		.013082	.325030									24
NM889510170		.013083	.325031									24
NM889610150			.335930				.993143				.109	24
NM889610170			.335931				.993144				.109	24
SUZUKI												
58100-90420-019	.101035		.335933		.992106						.See Note 4	27
58100-90J00-019	.101033		.335931		.992104						.See Note 4	27
58100-90J01-019	.101033		.335931		.992104		.993144				.See note 4	27
58100-90J10-019	.101034		.335932		.992105						.See Note 4	27
58100-90J11-019	.101034		.335932		.992105		.993145				.See note 4	27
58100-90J21-019	.101035		.335933		.992106		.993146				.See note 4	27
58100-90J41-019	.101032		.335930		.992103		.993143				.See note 4	27
58100-93723-019	.062016											25
58100-93743-019	.062017											25
58100-93763-019	.062016											25
58100-94313-019	.032042	.033095			.992406		.993406				.115	26
58100-94410		.033096					.993407				.115	26
58100-94411		.033096	.395930				.993407				.115	26
58100-94412		.033096					.993407				.115	26
58100-94500-019	.061001				.992103		.993143				.110	26
58100-94512-019	.061002				.992104		.993144				.110	26
58100-94522-019					.992105		.993145				.110	26
58100-94532-019					.992106		.993146				.110	26
58100-94554	.063001						.993143				.110	26
58100-94561	.063003						.993145				.110	26
58100-94571							.993146				.110	26
58100-94581	.063002						.993144				.110	26
58100-95212-019	.032045	.033093			.992403						.115	26
58100-95222-019	.032044				.992404						.115	26
58100-95353-019	.032041	.033096			.992407						.115	26
58100-95363-019	.032040	.033097	.395929		.992408						.115	26
58100-95373-019	.032039				.992409						.115	26
58100-95382-019			.395930									26
58100-95393-019	.032043	.033094			.992405						.115	26
58100-95500-019	.061001				.992103		.993143				.110	26
58100-95511-019	.061002				.992104		.993144				.110	26
58100-95521-019					.992105		.993145				.110	26
58100-95530-019					.992106		.993146				.110	26
58100-95D00-019					.992506							25
58100-96410-019					.992502						.121	25
58100-96420-019					.992503						.121	25
58100-96430-019					.992504						.121	25
58100-96440-019			.305529		.992505						.121	25
58100-96490-019			.305529									25
58200-96400			.305529									25

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s						
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade								
SUZUKI (Continued)																	
99105-00100-16P											.993143	.110	26				
99105-00100-18P											.993144	.110	26				
99105-00100-20P											.993145	.110	26				
99105-00100-22P											.993146	.110	26				
99105-00101-20P											.993145	.110	26				
99105-00101-22P											.993146	.110	26				
99105-00200-16P											.993042	.104	27				
99105-00200-18P											.993043 .993023	.993203	.104	27			
99105-00200-20P											.993044 .993024	.993204	.104	27			
99105-00200-22P											.993045 .993025	.993205	.104	27			
99105-00200-24P											.993046 .993026	.993206	.104	27			
99105-00203-23P											.993046 .993026	.993206	.104	27			
99105-0020L-16P											.993012 .993052	.104	27				
99105-0020L-18P											.993053 .993033	.993213	.104	27			
99105-0020L-20P											.993014 .993054	.993034 .993214	.104	27			
99105-0020L-22P											.993015 .993055	.993035 .993215	.104	27			
99105-0020L-24P											.993016 .993056	.993036 .993216	.104	27			
99105-0020L-26P											.993017	.104	27				
99105-00300-24P											.993046 .993026	.993206	.104	27			
99105-00500-12P											.033094	.993405	.115	26			
99105-00500-13P											.033095 .395929	.993406	.115	26			
99105-00500-14P											.033096	.993407	.115	26			
99105-00500-15P											.033097 .395930	.993408	.115	26			
99105-00600-13P											.305529		.25				
99105-00600-15P											.305530		.25				
VOLVO																	
3850302											.161004	.346034	.992005	.993045 .993025 .993205	.105	37	
3850303											.Aluminum	.346035		.993046 .993026 .993206	.105	37	
3850305											.SST®	.163002	.346031		.993042	.105	37
3850306											.SST®	.346032		.993043 .993023 .993203	.105	37	
3850307											.SST®	.346032		.993043 .993023 .993203	.105	37	
3850308											.SST®	.346033		.993044 .993024 .993204	.105	37	
3850309											.SST®	.346034		.993045 .993025 .993205	.105	37	
3850310											.SST®	.346035		.993046 .993026 .993206	.105	37	
3850311											.VIPER™	.346032		.993043 .993023 .993203	.105	37	
3850312											.VIPER™	.346033		.993044 .993024 .993204	.105	37	
3850313											.VIPER™	.346034		.993045 .993025 .993205	.105	37	
3850314											.VIPER™	.346035		.993046 .993026 .993206	.105	37	
3850315											. (LH)		.993012 .993052	.105	37		
3850316											.SST® (LH)	.163003	.346062		.993053 .993033 .993213	.105	37
3850317											.SST® (LH)	.163005	.346063		.993014 .993054 .993034 .993214	.105	37
3850318											.SST® (LH)	.163007	.346064		.993015 .993055 .993035 .993215	.105	37
3850319											.SST® (LH)	.163009	.346065		.993016 .993056 .993036 .993216	.105	37
3850320											.VIPER™ (LH)	.346062		.993053 .993033 .993213	.105	37	
3850321											.VIPER™ (LH)	.346063		.993014 .993054 .993034 .993214	.105	37	
3850322											.VIPER™ (LH)	.346064		.993015 .993055 .993035 .993215	.105	37	
3850323											.VIPER™ (LH)	.346065		.993016 .993056 .993036 .993216	.105	37	
3855142											.Raker®	.346034		.993044 .993024 .993204	.105	37	
3855144											.Raker®	.346035		.993045 .993025 .993205	.105	37	
3855146											.Raker®	.346036		.993046 .993026 .993206	.105	37	
3855152											.Raker® (LH)	.346064		.993014 .993054 .993034 .993214	.105	37	
3855154											.Raker® (LH)	.346065		.993015 .993055 .993035 .993215	.105	37	

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade		
VOLVO (Continued)											
3855156 Raker® (LH) . . . . .					.993016	.993056	.993036	.993216		.105	37
3855158 Raker® (LH) . . . . .					.993017					.105	37
3850299-3 . . . . .	.161001		.346031		.992002		.993042			.105	37
3850300-9 . . . . .	.161002		.346032		.992003		.993043	.993023	.993203	.105	37
3850301-7 . . . . .	.161003		.346033		.992004		.993044	.993024	.993204	.105	37
3850302-5 . . . . .	.161004		.346034		.992005		.993045	.993025	.993205	.105	37
3850305-8 . . . . .	.163002		.346031				.993042			.105	37
3850307-4 . . . . .			.346032				.993043	.993023	.993203	.105	37
3850308-2 . . . . .			.346033				.993044	.993024	.993204	.105	37
3850309-0 . . . . .			.346034				.993045	.993025	.993205	.105	37
3850310-8 . . . . .			.346035				.993046	.993026	.993206	.105	37
3850314-0 . . . . .			.346035				.993045	.993025	.993205	.105	37
3850315-7 . . . . .					.993012	.993052				.105	37
3850316-5 . . . . .	.163003		.346062				.993053	.993033	.993213	.105	37
3850317-3 . . . . .	.163005		.346063		.993014	.993054	.993034	.993214		.105	37
3850318-1 . . . . .	.163007		.346064		.993015	.993055	.993035	.993215		.105	37
3850319-9 . . . . .	.163009		.346065		.993016	.993056	.993036	.993216		.105	37
3850323-1 . . . . .			.346065		.993015	.993055	.993035	.993215		.105	37
813226- . . . . .	.082045										36
813316-7 . . . . .	.082087-1										36
814611-0 . . . . .	.082059-1										36
814611-1 . . . . .	.082059-1										36
814626-8 . . . . .	.082025-1										36
814631-8 . . . . .	.082026-1										36
850865-7 . . . . .	.082014-1										36
850866-5 . . . . .	.082015-1										36
851037-2 . . . . .	.082091-1										36
851038-0 . . . . .	.082090-1										36
851040-6 . . . . .	.082092-1										36
851138-8 . . . . .	.082009-1										36
854285-4 . . . . .	.082001-1										36
854286-2 . . . . .	.082002-1										36
854286-4 . . . . .	.082002-1										36
854289-6 . . . . .	.082004-1										36
854977-6 . . . . .	.082001-1										36
854979-2 . . . . .	.082009-1										36
854984-2 . . . . .	.082015-1										36
854987-5 . . . . .	.082091-1										36
854993-3 . . . . .	.082004-1										36
854998-2 . . . . .	.082014-1										36
872001-3 . . . . .	.082090-1										36
872002-1 . . . . .	.082092-1										36
YAMAHA											
61A-45972-00-98 . . . . .					.993045	.993025	.993205			.103	31, 38
61A-45974-00-98 . . . . .					.993044	.993024	.993204			.103	31, 38
61A-45978-00-98 . . . . .					.993043	.993023	.993203			.103	31, 38
61B-45972-00-98 (LH) . . . . .					.993015	.993055	.993035	.993215		.103	31, 38
61B-45974-00-98 (LH) . . . . .					.993014	.993054	.993034	.993214		.103	31, 38
61B-45978-00-98 (LH) . . . . .					.993053	.993033	.993213			.103	31, 38
62A-45970-10-00 . . . . .			.335934		.993145					.See Note 1	30
62A-45970-10-00 PRO HP993146					.See Note 1	30
62A-45972-10-00335935		.993146					.See Note 1	30

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s		
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade				
YAMAHA (Continued)													
62A-45974-10-00 PRO HP											.993145	.See Note 1	30
650-45943-01-36	.012102												28
651-45947-00-36	.012011												28
653-45941-01-36	.012013												28
663-45943-01-36	.032040	.033097			.992408		.993408					.117	29
663-45943-02-36	.032040	.033097			.992408		.993408					.117	29
663-45943-02-EL	.032040	.033097			.992408		.993408					.117	29
663-45945-01-36	.032042	.033095			.992406		.993406					.117	29
663-45945-02-36	.032042	.033095			.992406		.993406					.117	29
663-45945-02-EL	.032042	.033095			.992406		.993406					.117	29
663-45947-01-36	.032044				.992404							.117	29
663-45947-02-36	.032044				.992404							.117	29
663-45947-02-EL	.032044				.992404							.117	29
663-45949-01-36	.032039				.992409							.117	29
663-45949-01-EL	.032039				.992409							.117	29
663-45952-02-EL	.032043	.033094			.992405		.993405					.117	29
663-45958-00-36	.032041	.033096			.992407		.993407					.117	29
663-45958-00-EL	.032041	.033096			.992407		.993407					.117	29
663-45958-01-36	.032041	.033096			.992407		.993407					.117	29
663-45958-01-EL	.032041	.033096			.992407		.993407					.117	29
663-45970-60-98		.033095	.395929				.993406					.117	29
663-45972-60-98	.113001	.033094					.993405					.117	29
663-45974-60-98		.033096					.993407					.117	29
663-45976-00-98		.033097	.395930				.993408					.117	29
663-45978-00-98		.033097					.993408					.117	29
664-45941-01-36	.022001				.992501							.123	29
664-45941-01-EL	.022001				.992501							.123	29
664-45945-00-36	.022002				.992502							.123	29
664-45945-00-EL	.022002				.992502							.123	29
664-45947-01-EL	.022002				.992503							.123	29
664-45949-02-EL			.305929		.992505							.123	29
664-45952-00-EL			.305930		.992506							.123	29
664-45954-00-EL	.022003				.992504							.123	29
664-45970-00-98			.305929										29
66K-45972-B0-00				.345938								.103	31, 38
66K-45974-B0-00							.993046					.103	31, 38
683-45943-00-36	.102005												28
683-45943-00-EL	.102005												28
683-45945-00-36	.102004												28
683-45945-00-EL	.102004												28
683-45947-00-36	.102003												28
683-45947-00-EL	.102003												28
683-W4591-02-EL	.102003												28
688-45930-01-98			.335931				.993144					.See Note 1	30
688-45930-02-98			.335931				.993144					.See Note 1	30
688-45930-60-98			.335931				.993144					.See Note 1	30
688-45932-60-98			.335930										30
688-45970-01-98			.335932				.993145					.See Note 1	30
688-45970-02-98			.335932				.993145					.See Note 1	30
688-45970-03-98			.335932				.993145					.See Note 1	30
688-45972-01-98			.335933				.993146					.See Note 1	30
688-45972-02-98			.335933				.993146					.See Note 1	30
688-45978-60-98			.335931				.993143					.See Note 1	30

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s	
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
YAMAHA (Continued)												
6E5-45941-00-36	101034		335932		992105		993145				See Note 1	30
6E5-45941-00-EL	101034		335932		992105		993145				See Note 1	30
6E5-45943-00-36	101035		335933		992106		993146				See Note 1	30
6E5-45943-00-EL	101035		335933		992106		993146				See Note 1	30
6E5-45945-00-36	101033		335931		992104		993144				See Note 1	30
6E5-45945-00-EL	101033		335931		992104		993144				See Note 1	30
6E5-45945-01-EL	101033		335931		992104		993144				See Note 1	30
6E5-45947-00-36	101032		335930		992103		993143				See Note 1	30
6E5-45947-00-EL	101032		335930		992103		993143				See Note 1	30
6E5-45949-00-36	101031											30
6E5-45949-00-EL	101031											30
6E5-45954-00-EL	101036											30
6E5-45970-10-00			345933				993044		993204		103	31, 38
6E5-45970-10-98			345933				993044		993204		103	31, 38
6E5-45972-10-00			345935				993046		993206		103	31, 38
6E5-45972-10-98			345935				993046		993206		103	31, 38
6E5-45976-10-00			345934				993045		993205		103	31, 38
6E5-45976-10-98			345934				993045		993205		103	31, 38
6E5-45978-10-00			345936								103	31, 38
6E5-45978-10-98			345936								103	31, 38
6G1-45943-00-36	102002											28
6G1-45943-00-EL	102002											28
6G5-45930-00-98			345936								103	31, 38
6G5-45941-00-36			345931		992002		993042				103	31, 38
6G5-45941-00-98			345931		992002		993042				103	31, 38
6G5-45941-00-EL			345931		992002		993042				103	31, 38
6G5-45943-00-36			345934		992005		993045	993025	993205		103	31, 38
6G5-45943-00-EL			345934		992005		993045	993025	993205		103	31, 38
6G5-45943-01-98			345934		992005		993045	993025	993205		103	31, 38
6G5-45945-00-36	101028		345933		992004		993044	993024	993204		103	31, 38
6G5-45945-00-EL	101028				992004		993044	993024	993204		103	31, 38
6G5-45945-01-98	101028		345933		992004		993044	993024	993204		103	31, 38
6G5-45945-01-EL	101028				992004		993044	993024	993204		103	31, 38
6G5-45947-01-98	101027		345932		992003		993043	993023	993203		103	31, 38
6G5-45947-01-EL	101027				992003		993043	993023	993203		103	31, 38
6G5-45949-00-36	101030				992006		993046	993026	993206		103	31, 38
6G5-45949-00-98	101030		345935		992006		993046	993026	993206		103	31, 38
6G5-45949-00-EL	101030				992006		993046	993026	993206		103	31, 38
6G5-45952-00-98	101026				992003		993042				103	31, 38
6G5-45952-00-EL	101026				992003		993042				103	31, 38
6G5-45970-00-98							993042				103	31, 38
6G5-45970-01-98							993042				103	31, 38
6G5-45970-02-98			345931				993042				103	31, 38
6G5-45972-00-98							993045	993025	993205		103	31, 38
6G5-45972-01-98							993045	993025	993205		103	31, 38
6G5-45972-02-98			345934				993045	993025	993205		103	31, 38
6G5-45972-03-98							993045	993025	993205		103	31, 38
6G5-45974-00-98							993044	993024	993204		103	31, 38
6G5-45974-01-98							993044	993024	993204		103	31, 38
6G5-45974-02-98							993044	993024	993204		103	31, 38
6G5-45974-03-98			345933				993044	993024	993204		103	31, 38
6G5-45976-00-98							993046	993026	993206		103	31, 38
6G5-45976-01-98			345935				993046	993026	993206		103	31, 38

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Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #s
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade		
YAMAHA (Continued)											
6G5-45978-00-98						.993043	.993023	.993203		.103	31, 38
6G5-45978-01-98						.993043	.993023	.993203		.103	31, 38
6G5-45978-02-98						.993043	.993023	.993203		.103	31, 38
6G5-45978-03-98			.345932			.993043	.993023	.993203		.103	31, 38
6H5-45943-00-EL	.032040	.033097	.395930		.992408					.117	29
6H5-45945-00-EL	.032042	.033095	.395929		.992406					.117	29
6H5-45952-00-EL	.032043	.033094			.992405					.117	29
6H5-45958-00-EL		.033096			.992407					.117	29
6J9-45972-B0-00			.345937			.993046	.993026	.993206		.103	31, 38
6J9-45976-10-00			.345941			.993045	.993025	.993205		.103	31, 38
6K1-45945-00-98			.345933		.992004	.993044	.993024	.993204		.102	31, 38
6K1-45947-00-98			.345932		.992003	.993043	.993023	.993203		.102	31, 38
6K1-45970-00-98 (LH)					.993012	.993052				.103	31, 38
6K1-45970-01-98 (LH)					.993012	.993052				.103	31, 38
6K1-45972-00-00 (LH)					.993015	.993055	.993035	.993215		.103	31, 38
6K1-45972-00-98 (LH)					.993015	.993055	.993035	.993215		.103	31, 38
6K1-45972-01-98 (LH)			.345964		.993015	.993055	.993035	.993215		.103	31, 38
6K1-45974-00-00 (LH)					.993014	.993054	.993034	.993214		.103	31, 38
6K1-45974-00-98 (LH)					.993014	.993054	.993034	.993214		.103	31, 38
6K1-45974-01-98 (LH)					.993014	.993054	.993034	.993214		.103	31, 38
6K1-45974-02-98 (LH)			.345963		.993014	.993054	.993034	.993214		.103	31, 38
6K1-45976-00-98 (LH)			.345965		.993016	.993056	.993036	.993216		.103	31, 38
6K1-45976-01-98 (LH)					.993016	.993056	.993036	.993216		.103	31, 38
6K1-45978-00-00 (LH)					.993053	.993033	.993213			.103	31, 38
6K1-45978-00-98 (LH)					.993053	.993033	.993213			.103	31, 38
6K1-45978-01-98 (LH)					.993053	.993033	.993213			.103	31, 38
6K1-45978-02-98 (LH)			.345962		.993053	.993033	.993213			.103	31, 38
6R1-45970-AO-00 (LH)					.993014	.993054	.993034	.993214		.103	31, 38
6R1-45972-AO-00 (LH)					.993015	.993055	.993035	.993215		.103	31, 38
6R1-45974-AO-00 (LH)					.993016	.993056	.993036	.993216		.103	31, 38
6R1-45976-AO-00 (LH)					.993012	.993052				.103	31, 38
6R1-45978-AO-00 (LH)					.993053	.993033	.993213			.103	31, 38
6R4-45970-AO-00 . . .SALTWATER					.993044	.993024	.993214			.103	31, 38
6R4-45972-AO-00 . . .SALTWATER					.993045	.993025	.993215			.103	31, 38
6R4-45974-AO-00 . . .SALTWATER					.993046	.993026	.993216			.103	31, 38
6R4-45976-AO-00 . . .SALTWATER					.993042					.103	31, 38
6R4-45978-AO-00 . . .SALTWATER					.993043	.993023				.103	31, 38
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MAR-GYT3B-03-15 . .STAINLESS		.033097									29
MAR-GYT3B-L6-16 (LH)					.993012	.993052				.103	31, 38
MAR-GYT3B-L6-18 (LH)			.345963			.993053	.993033	.993213		.103	31, 38
MAR-GYT3B-L6-20 (LH)			.345964		.993014	.993054	.993034	.993214		.103	31, 38
MAR-GYT3B-L6-22 (LH)			.345965		.993015	.993055	.993035	.993215		.103	31, 38
MAR-GYT3B-V4-18			.335932			.993144					See Note 1 30
MAR-GYT3B-V4-20			.335933			.993145					See Note 1 30
MAR-GYT3B-V4-22						.993146					See Note 1 30
MAR-GYT3B-V6-16			.345932			.993042				.103	31, 38
MAR-GYT3B-V6-18			.345933			.993043	.993023	.993203		.103	31, 38
MAR-GYT3B-V6-20			.345934			.993044	.993024	.993204		.103	31, 38
MAR-GYT3B-V6-22			.345935			.993045	.993025	.993205		.103	31, 38
MAR-GYT3B-V6-24			.345936			.993046	.993026	.993206		.103	31, 38
MAR-GYT4B-V6-18							.993204			.103	31, 38
MAR-GYT4B-V6-20							.993205			.103	31, 38

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits	Catalog Page #'s
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade		

YAMAHA (Continued)

MAR-GYT4B-V6-22				435935								31, 38	
MAR-GYT4B-V6-22								.993206		.103		31, 38	
MAR-GYT4B-V6-23				435935								31, 38	
MAR-GYT4B-V6-24				435936								31, 38	
MAR-GYT4B-V6-25				435936								31, 38	
MAR-GYT4B-V6-26				435937								31, 38	
MAR-VMAX3-04-18				.335932				.993144			See Note 1	30	
MAR-VMAX3-04-20				.335933				.993145			See Note 1	30	
MAR-VMAX3-04-22								.993146			See Note 1	30	
MAR-VMAX3-06-16				.345932				.993042			.103	31, 38	
MAR-VMAX3-06-18				.345933				.993043	.993023	.993203	.103	31, 38	
MAR-VMAX3-06-20				.345934				.993044	.993024	.993204	.103	31, 38	
MAR-VMAX3-06-22				.345935	.435935			.993045	.993025	.993205	.103	31, 38	
MAR-VMAX3-06-24				.345936	.435936			.993046	.993026	.993206	.103	31, 38	
MAR-VMAX3-06-26				.435937							.103	31, 38	
MAR-VMAX3-C6-18 (LH)				.345963				.993053	.993033	.993213	.103	31, 38	
MAR-VMAX3-C6-20 (LH)				.345964				.993014	.993054	.993034	.993214	.103	31, 38
MAR-VMAX3-C6-22 (LH)				.345965				.993016	.993056	.993036	.993216	.103	31, 38

Note 1	Yamaha	
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	60-100 HP Including 4-Stroke, 1984 to present, 15 tooth spline	108
	80-140 HP, 1978 thru 1983, 15 tooth spline	102
	115-130 HP, 1984 to present, 15 tooth spline	103

Note 2	Evinrude/Johnson Outboards	
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	90-140 Large Gearcase, 1991 to present, 15 tooth spline	100
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	150-300 HP, 1991 to present, 15 tooth spline	100
	OMC/Cobra Sterndrives	
Model 800/Cobra/King Cobra, 1978 thru 1990, 15 tooth spline	101	
Model 800/Cobra/King Cobra, 1991 thru 1994, 15 tooth spline	100	

Note 3	Mercury/Mariner	
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	115-130 HP, 1998 & Newer, 15 tooth spline	107
	Force	
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Yamaha		
80-140 HP, 1978 thru 1983, 15 tooth spline	102	

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	DF140, 2001 & Newer, 15 tooth spline	126
	Johnson	
	90 & 115 HP (4-Stroke), 2003 & Newer, 15 tooth spline	125
	140 HP (4-Stroke), 2003 & Newer, 15 tooth spline	126
Yamaha		
50-100 HP (including 4-Stroke), 1984 & Newer, 15 tooth spline	108	
115-130 HP, 1984 & Newer, 15 tooth spline	103	

XHS™ HUB SYSTEM CROSS REFERENCE TO MERCURY FLO-TORQ® HUB SYSTEM

Mercury Flo-Torq®	XHS™ Hub Kit	Mercury Flo-Torq®	XHS™ Hub Kit
835257A1	102	835272A1	108
835265A1	100	835277A1	102
835266A1	106	835279A1	107
835267A1	101	835281A1	104
835270A1	105	835282A1	110
835271A1	103	835284A1	109



ONE YEAR LIMITED WARRANTY AND DISCLAIMER OF IMPLIED WARRANTIES

Michigan Wheel Corporation warrants to the original consumer purchaser that for the life of the motor originally fitted with the Michigan Match™, Vortex™, Rapture™, RaptureXHS™, Apollo™ or Ballistic™ Propeller, under normal pleasure boat usage, the body of the propeller will be free of any defect in material or workmanship that results in blade or hub fracture or failure. Michigan Wheel Corporation also warrants to the original consumer purchaser, under the same parameters of use described above, that the propeller bushing will be free from any defect in material or workmanship for a period of one year from the date of purchase.

Some surface discoloration is unavoidable in a cast stainless steel alloy and will not be covered by this warranty. This warranty does not cover normal wear, accidental damage, modification, improper installation, improper maintenance, or other circumstances that are not a direct result of a defect in the material or workmanship of the propeller.

The sole obligation of Michigan Wheel Corporation under this warranty is to repair or replace the defective component, in the sole discretion of Michigan Wheel Corporation, and at its expense. In order to make a replacement claim, please contact the Michigan Wheel Corporation Customer Service Department, at (616) 452-6941, for a "Return Goods Authorization" number (RGA#), and shipping address instructions. The warranty will not cover any expense of propeller removal, shipping, or reinstallation of the propeller. The RGA# must be indicated along with our address on the mailing label, and the shipping carton should include your return shipping address, your phone number, and your original purchase receipt.

The above warranty is Michigan Wheel Corporation's sole express warranty for the Michigan Match™, Vortex™, Rapture™, RaptureXHS™, Apollo™ or Ballistic™ Propeller. ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF PURCHASE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Michigan Wheel Corporation also excludes and disclaims all liability for incidental or consequential damages, loss of use of the propeller, costs, and expenses. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from State to State. Any actions arising out of this warranty and the sale of this produce shall be governed by Michigan law and may only be brought, heard, and decided in Kent County Circuit Court, in the State of Michigan, U.S.A., or in the United States District Court for the Western District of Michigan.

Michigan Wheel Corporation, Outboard & Sterndrive Division
1501 Buchanan Avenue SW
Grand Rapids, MI 49507
Phone: (616) 452-6941

Need your Propeller Repaired?

Congratulations, you have chosen a top quality propeller. Should it become damaged during use, you want a qualified trained technician to repair it. Contact the **National Marine Propeller Association (NMPA)** at phone: 616.235.6672, fax: 616.235.0144 or visit them on the web: www.nmpa.net for a certified propeller repair shop near you.

Warranty claims are to be addressed directly to **Michigan Wheel Corporation** per instructions on this warranty statement and not to the **NMPA**.

A free service from:

Find the prop that matches your needs.

1. Please complete all information listed below.
2. If you do not know all the information, refer to the owners manual or to the actual vessel you are re-propping.
3. Ideally, all spaces are to be filled in. However, if certain information is unknown, focus on the spaces marked with an asterisk (*).
4. Our suggestion can only be as good as the information you provide. Inaccurate data will have an effect on the propeller(s) we suggest.
5. Please note any desires, concerns or history of performance in the comment section.
6. When complete, return this form to Michigan Wheel Corporation or a Michigan Wheel distributor. You will be contacted when your Prop-It-Right analysis is ready.

Name: _____

Street: _____

City/State: _____

Zip: _____ Phone: _____

Fax: _____ Date: _____

2685 Northridge Ave. N.W., Suite G, Grand Rapids, MI 49507
 Phone: (616) 452-6941 Fax: (616) 246-1440

PLEASURE BOAT – OUTBOARD & STERN DRIVE

Boat Data

Manufacturer: _____ Model / Year: _____

*Overall Length (OAL): _____ Waterline Length (WL): _____

Beam: _____ Draft: _____ Loaded Weight in Pounds: _____

*Boat Hull Material: Fiberglass Steel Aluminum Wood Other: _____

Present Hull Speed: _____ Desired Hull Speed: _____ Knots MPH

Boat Use: _____

Outboard & Stern Drive Engine Data

Motor – Manufacturer: _____ Model: _____

Year: _____ Gas Diesel

*Engine Mfg. Rating: _____ HP @ Engine Operating Range of _____ to _____ RPM
 (low to high)

Cubic Inch Displacement (CID): _____

*Full-throttle RPM and speed produced with existing propeller:

RPM: _____ Speed: _____

*Gear Ratio: _____ :1 *No. of Engines: Single Twin

Does your boat have hydraulic power trim? Yes No

Stern Drive – Manufacturer: _____

Model: _____ Year: _____

Propeller Data

*Present Propeller: _____ diam. x _____ pitch Number of Blades: _____

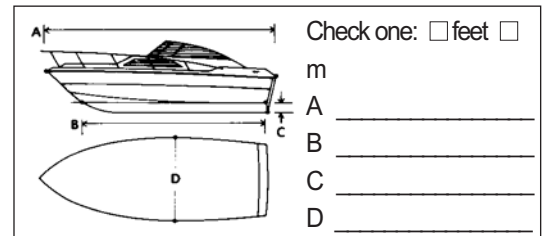
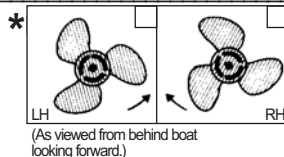
Manufacturer: _____ Model: _____

Material: Aluminum Stainless Steel Other: _____

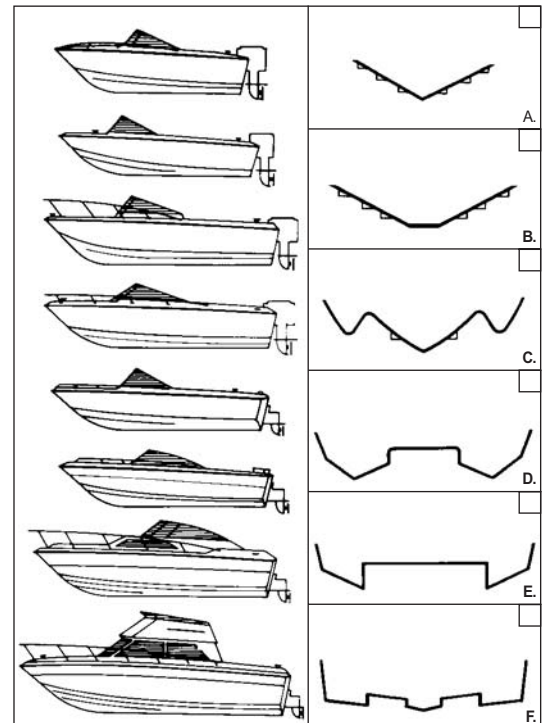
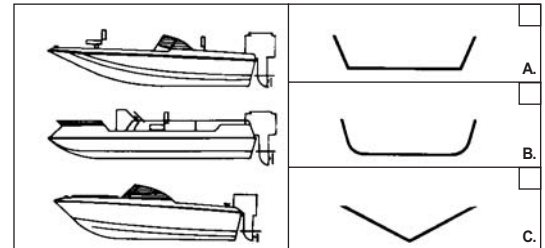
Part No. _____

*Shaft Size: _____

Your Comments:



Circle boat type. Check hull type.



For Michigan Wheel Corp. use only

Suggested Propeller Size: _____ diam. x _____ pitch Part No.: _____

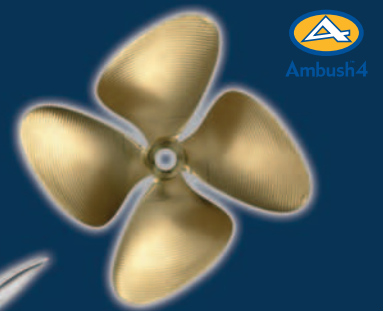
Blades: _____ Material: _____

Comments: _____



Michigan Wheel Corporation - Headquarters





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