

Michigan Wheel Corporation



*Evinrude®
Johnson®
OMC
Force
Chrysler
U.S. Marine*

*MerCruiser®
Mercury
Mariner®
Nissan
Tohatsu
Suzuki*

*Honda
SX Cobra™
Volvo Penta®
Yamaha*

**2007 CATALOG
OUTBOARD & STERNDRIVE PROPELLERS**

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 end 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.



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

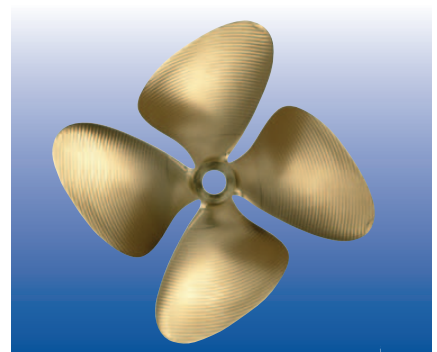
Michigan Wheel, introducing new props and improving old ones...since 1903.



'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.

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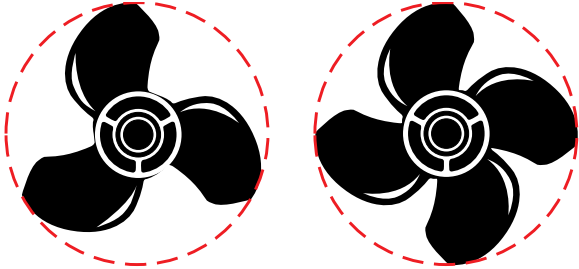
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Michigan Wheel Alpha-Numeric Cross Reference	B2
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PROPELLER BASICS

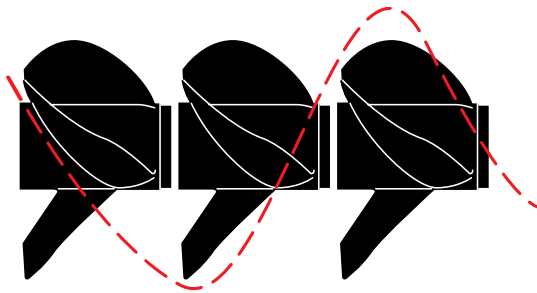
Diameter

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.



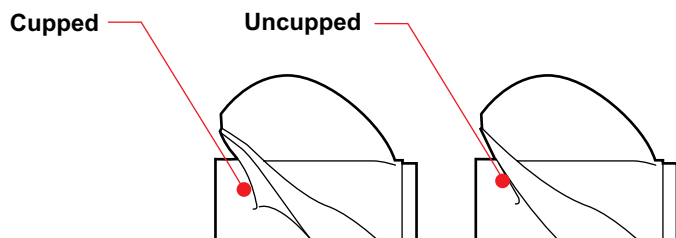
Pitch

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.

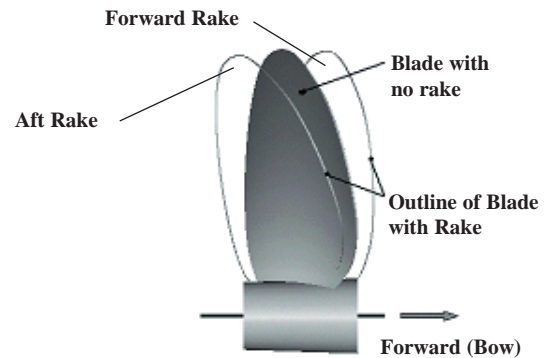


Rake

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 has 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

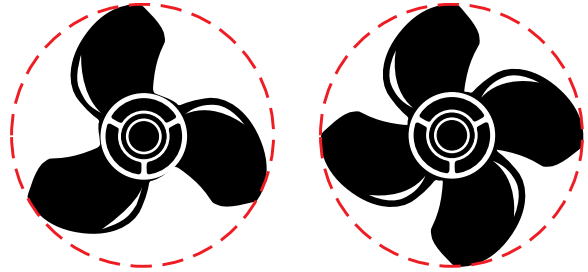
Finding the right match between the propeller, engine type and boat size will optimize the following performance factors — increased top end, faster planing speed, improved low end punch and load carrying capability.

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.

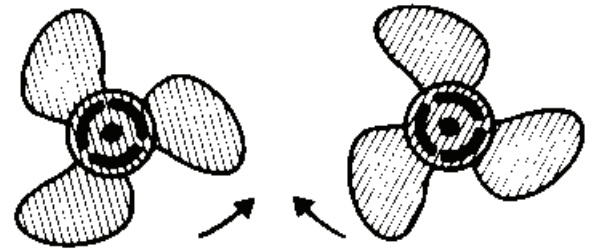
We recommend 4-blade propellers for bass boats and boats with high performance hulls running high horsepower outboard engines. Compared to 3 blades, they provide better "hole shot" performance with less steering torque and less vibration at high speeds.



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

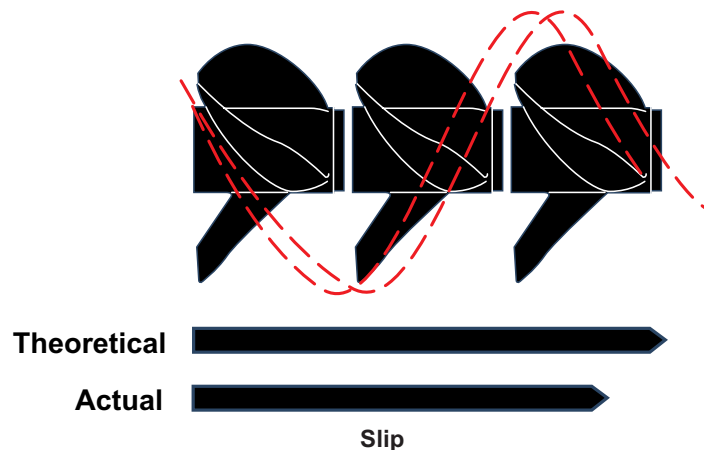
Two propellers spinning the same direction on twin engine boats will create steering torque. In other words, two right-hand propellers pull the stern hard to the right and the bow to the left.

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.

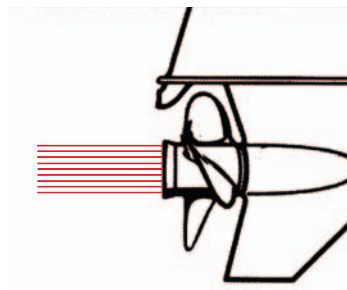
Over/Thru-hub exhaust propellers are a combination of thru-hub and over-hub exhaust propellers. This allows some exhaust to escape at lower RPM, providing a controlled amount of exhaust flooding. These types of propellers will allow the propeller to be slightly easier to turn during initial acceleration,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

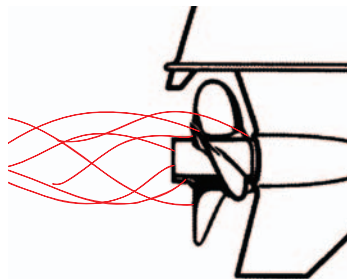
Aluminum vs. Stainless Steel?

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.

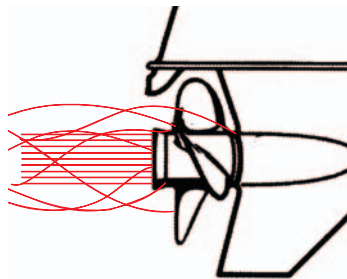
Stainless steel is more expensive, but much stronger and durable than aluminum. If you are looking for better performance than can be provided by your aluminum propeller, such as ultimate top speed or better acceleration, a stainless steel propeller may be required.



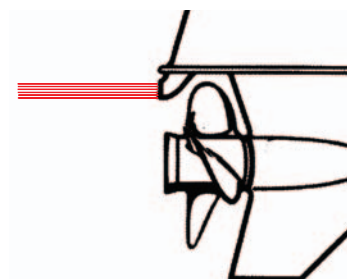
THRU-HUB EXHAUST
PROPELLERS



OVER-HUB EXHAUST
PROPELLERS



OVER/THRU-HUB EXHAUST
PROPELLERS



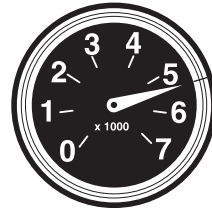
NON THRU-HUB EXHAUST
PROPELLERS

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

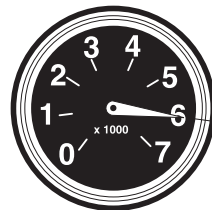
Find the manufacturer's recommended RPM range in the owner's manual or ask your dealer. A reference chart showing common engine applications is shown on Page A6 of this catalog.



Manufacturer's Recommended WOT RPM

Test for Maximum RPM

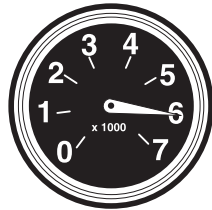
Using the existing propeller or a new propeller, make test runs to determine the maximum RPM and boat speed. Vary the trim angle for optimum performance.



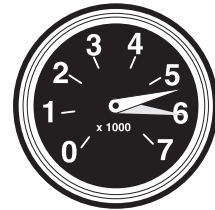
Test Run WOT RPM

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...

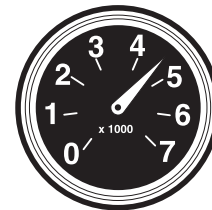


Decrease in RPM

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.



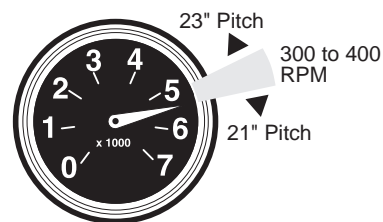
Decrease in Prop Pitch Equals...



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.



ENGINE RPM CHART

Evinrude RPM Chart		
HP/Model	WOT RPM	Gear Ratio
5 4-Stroke	5500-6500	2.23
6 4-Stroke	5500-6500	2.23
8 4-Stroke	5000-6000	2.42
9.9 4-Stroke	5000-6000	2.42
9.9 HT 4-Stroke	4000-5000	2.42
15 4-Stroke	5000-6000	2.42
25 4-Stroke	4700-5300	2.09
30 4-Stroke	5200-5800	2.09
40 4-Stroke	5200-5800	2.27
50 4-Stroke	5900-6500	2.27
70 4-Stroke	5200-5800	2.42
75 Ficht	4750-5250	2
90 Ficht	5250-5750	2
115 Ficht	5250-5750	2
135 Ficht	4750-5250	1.86
150 Ficht	4750-5250	1.86
175 Ficht	5250-5750	1.86
200 Ficht	5500-6000	1.86
225 Ficht	5500-6000	1.86
225 Ficht HO	5500-6000	1.86
250 Ficht	5500-6000	1.86

Evinrude E-Tec RPM Chart		
HP/Model	WOT RPM	Gear Ratio
40	5500-6000	
50	5500-6000	
60	5500-6000	
75	4500-5500	
90	4500-5500	
115	4500-5500	
130	5000-6000	
150 H.O.	4750-5750	
150	4750-5750	
175	4750-5750	
200	4750-5750	
200 H.O.	4500-5800	
200	4500-5800	
225	4500-5800	
225 H.O.	4500-5800	

Honda RPM Chart		
HP/Model	WOT RPM	Gear Ratio
2	4000-5000	2.4
5	4000-5000	2.1
8	4950-5500	2.4
9.9	4500-5500	2.1
15	5000-6200	2.1
25	5000-6000	2.08
30	5500-6000	2.08
40	5000-6000	2.09
50	5500-6000	2.09
75	5000-6000	2.3
90	5000-6000	2
115	5000-6000	2
130	5000-6000	2
200	5000-6000	1.86
225	5000-6000	1.86

Mercury Verado RPM Chart		
HP/Model	WOT RPM	Gear Ratio
135	5200-6400	
150	5800-6400	
175	5800-6400	
200	5800-6400	
225	5800-6400	
250	5800-6400	
275	5800-6400	

Johnson RPM Chart		
HP/Model	WOT RPM	Gear Ratio
2	4000-5000	1.85
3.3	4500-5500	1.85
3.5	4500-5500	1.85
4	4500-5500	2.08
5	4600-5400	1.92
6	4500-5500	2.23
8	5000-6000	2.23
9.9	5000-6000	2.23
15	5000-6000	2.23
25	4500-5500	2.15
25	5200-5800	2.15
30	5200-5800	2.15
35	5200-5800	2.15
40	4500-5500	2.23
50	4500-5500	2.23
60	5000-6000	2.23
70	5000-6000	2.23
90	4500-5500	2
90 OP	4500-5500	2
115	4500-5500	2
115 OP	4500-5500	2
135	5000-6000	2.25
135 OP	5000-6000	2.25
150	4500-5500	1.86
150 OP	4500-5500	1.86
175	4500-5500	1.86
175 OP	4500-5500	1.86
200	5000-6000	1.86
200 OP	5000-6000	1.86
225	5000-6000	1.86
225 OP	5000-6000	1.86
225 HO	5000-6000	1.86
250 OP	5000-6000	1.86

Nissan/Tohatsu RPM Chart		
HP/Model	WOT RPM	Gear Ratio
2.5	3800-5200	1.85
3.5	4300-5200	2.15
4 4-Stroke	4500-5500	2.15
5	4500-5500	2.15
5 4-Stroke	4500-5500	2.15
6 4-stroke	5500-6000	2.15
8	4500-5500	2.08
9.8	5000-5800	2.08
9.9 4-Stroke	4500-5500	2.08
15 4-Stroke	5000-6000	1.85
18	4750-5500	1.85
25	4800-5500	1.92
30	4800-5500	1.92
40	4500-5500	1.85
50	5000-5700	1.85
50	5000-5700	1.85
50 Orbital	5000-5700	1.85
70	4900-5600	2.3
90	5000-5500	2.3
115	5200-5700	2
120	5200-5700	2
140	5200-5700	2

Mercuriser RPM Chart		
HP/Model	WOT RPM	Gear Ratio
3.0 L 135	4400-4800	2.00 A1
4.3 L 190	4400-4800	1.81 A1
4.3 LH 205	4400-4800	1.62 A1
4.3 L EFI 210	4400-4800	1.62 A1
5.0 L 220	4400-4800	1.62 A1
5.0 L 220	4400-4800	1.65 B1
5.0 L EFI 240	4400-4800	1.47 A1
5.0 L EFI 240	4400-4800	1.65 B1
5.7 L 250	4400-4800	1.47 A1
5.7 L 250	4400-4800	1.65 B1
5.7L EFI 260	4400-4800	1.47 A1
5.7L EFI 260	4400-4800	1.65 B1
350 Mag MPI 300	4600-5000	1.47 A1
350 Mag MPI 300	4600-5000	1.50 B1
350 Horizon 300	4600-5000	1.47 A1
350 Horizon 300	4600-5000	1.50 B1
MX 6.2 L MPI 320	4800-5200	1.65 B1
496 Mag 375	4400-4800	1.5 B1
496 Mag HO 425	4600-5000	1.5 B1

Mercury RPM Chart		
HP/Model	WOT RPM	Gear Ratio
2.5	4000-5000	1.85
3.3	4500-5500	2.15
4	4500-5500	2.15
4 4-stroke	4500-5500	2.15
5	4000-5000	2.15
5 4-Stroke	4500-5500	2.15
6	4000-5000	2
6 4-stroke	5000-6000	2.15
8	4500-5500	2
9.9	5000-6000	2
9.9 4-Stroke	4500-5500	2.01
9.9 Big Foot	4500-5500	2.42
9.9 Saltwater	4500-5500	2.42
15	5000-6000	2
15 4-Stroke	4500-5500	2
15 Big Foot	4500-5500	2.42
20	4500-5500	2.25
25 Classic	5000-6000	2.25
25 Big Foot	5500-6000	2.4
30	4500-5500	2
30 4-Stroke	5500-6000	2
40 Classic	4500-5500	2
40	5000-5500	1.83
40 4-Stroke	5500-6000	2
40 Big Foot	5500-6000	2.3
50 Classic	5000-5500	1.83
50 4-Stroke	5500-6000	1.83
50 Big Foot	5500-6000	2.3
60 Classic	5000-5500	1.64
60 Big Foot	5000-5500	2.3
60 4-Stroke	5500-6000	1.83
60 Big Foot	5500-6000	2.3
75 Classic	4750-5250	2.3
75 4-Stroke	5000-6000	2.3
90 Classic	5000-5500	2.3
90 SW	5000-5500	2.3
90 4-Stroke	5000-6000	2.3
90 4-Stroke SW	5000-6000	2.3
115	4750-5250	2.07
115 4-Stroke	5000-6000	2.07
115 4-Stroke SW	5000-6000	2.07
125 Classic	4750-5250	2.07
125 SW	4750-5250	2.07
135 OptiMax	5000-5600	2
135 SW OptiMax	5000-5600	2
150 XR6	5000-5600	1.87
150 SW	5000-5600	1.87
150 EFI	5000-5600	1.87
150 SW EFI	5000-5600	1.87
150 OptiMax	5000-5600	1.87
150 OptiMax	5000-5600	1.87
175 EFI	5000-5600	1.87
175 OptiMax	5250-5750	1.87
200 Classic	5000-5600	1.87
200 SW	5000-5600	1.87
200 EFI	5000-5800	1.87
200 EFI SW	5000-5600	1.87
200 OptiMax	5000-5750	1.75
225 EFI	5000-5800	1.75
225 EFI SW	5000-5500	1.75
225 OptiMax	5000-5750	1.75
225 XL OptiMax SW5000-5750		1.75
250 XL EFI SW	5000-5800	1.75

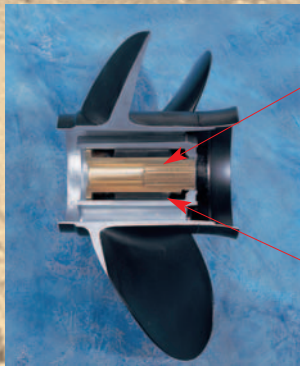
Volvo RPM Chart		
HP/Model	WOT RPM	Gear Ratio
3.0 GS 135	4600	1.97 SX
4.3 GL 190	4800	1.66 SX
4.3 Gi 205	4800	1.66 SX
5.0 GL 220	4800	1.51 SX
5.0 Gi 250	4800	1.51 SX
5.7 GS 250	4800	1.43 SX
5.7 GSi 280	5000	1.43 SX
5.7 GXi 315	5000	1.43 SX
AD31L 122	3800	2.30 SX
AD31P 141	3900	2.30 SX

Tohatsu/Nissan RPM Chart		
HP/Model	WOT RPM	Gear Ratio
5	4500-5400	1.91
6	4500-5500	1.91
DF9.9	4500-5500	1.91
DF15	5400-6000	1.91
DT25	4500-5500	1.91
DF25	4700-5300	2.09
DF30	5500-6100	2.09
DF40	5200-5800	2.09
DF50	5500-6500	2.09
DF60	4700-5300	2.42
DF70	5200-5800	2.42
DT85	5000-5600	2.08
DF90	4500-5500	2.59
DT100	5250-5750	2.08
115 EFI	5500-6000	2.08
DF115	5000-6000	2.59
140 EFI	5250-5750	2.08
150 EFI	5200-6000	1.86
225 EFI	5000-5600	1.86

Yamaha RPM Chart		
HP/Model	WOT RPM	Gear Ratio
2	4000-5000	2.08
3	4500-5500	2.08
4 4-Stroke	4000-5000	2.08
5	4500-5500	2.08
6 4-Stroke	4500-5500	2.08
8	4500-5500	2.08
8 4-Stroke	5000-6000	2.08
8 4-Stroke HT	5000-6000	2.92
9.9	4500-5500	2.08
9.9 4-Stroke	4500-5500	2.92
9.9 4-Stroke HT	4000-5000	2.92
15	4500-5500	2.08
15 4-Stroke	4500-5500	2.08
25	4500-5500	2.08
25	4500-5500	1.85
25 4-Stroke	5500-6000	2.08
25 4-Stroke HT	5000-6000	2.41
30	4500-5500	1.85
30 4-Stroke	5000-6000	2
40	4500-5500	1.85
C40	4500-5500	1.85
F40 4-Stroke	5000-6000	2
50	4500-5500	1.85
C50	4500-5500	1.85
F50 4-Stroke	5000-6000	1.85
T50 HT	5000-6000	2.33
60	4500-5500	2.33
C60	4500-5500	2.33
70	5000-6000	2.33
C70	5000-6000	2.33
F80 4-Stroke	5000-6000	2.31
90	4500-5500	2
F90	4500-5500	2
F100 4-Stroke	5000-6000	2.31
115	4500-5500	2
F115 4-Stroke	5000-6000	2.15
130	5000-6000	2
150 SW EFI	4500-5500	1.86
150 HPDI	4500-5500	1.86
V Max 150 HPDI	4500-5500	2
V Max 150 TRP	4500-5500	2
V Max 150	4500-5500	2
V Max 150 EFI	4500-5500	2
175 HPDI	4500-5500	1.86
V Max 175	4500-5500	1.86
200 SW EFI	4500-5500	1.86
200 HPDI	4500-5500	1.86
V Max 200 HPDI	4500-5500	1.86
V Max 200 3.1 EFI	4500-5500	1.81
V Max 225 3.1 EFI	4500-5500	1.81
225 SW EFI	4500-5500	1.81
V Max 250 3.1	4500-5500	1.81
250 SW EFI	4500-5500	1.81

MICHIGAN PROPELLERS

RUBBER HUB PROPELLERS



Brass Spindle

Rubber Cushioned Hub

Cutaway of Propeller and Bushing Assembly



BALLISTICTM
STAINLESS-STEEL PROPS

XHS™ (DROP-IN HUB) PROPELLERS



VORTEXTM
XHS
PERFORMANCE PROPELLERS

NEW

RAPTURE^{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.



DYNA-JET CUPPED

SEE PRODUCT APPLICATION GUIDE ON PAGES A8 - A11.

2006 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
	✓	✓				✓	✓	✓	✓	✓
	✓	✓				✓	✓	✓		
	✓	✓				✓	✓	✓		
✓	✓	✓	✓	✓	✓		✓			

2006 MICHIGAN PROPELLERS

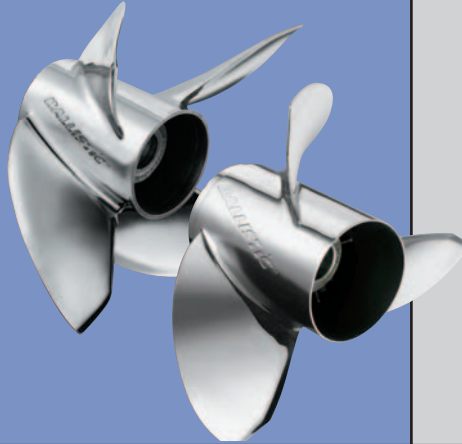
INFLATABLE	ALUMINUM	BASS BOAT	BAY BOAT	FLAT
		✓	✓	
✓	✓	✓		
			✓	
	✓		✓	

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-2006

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.



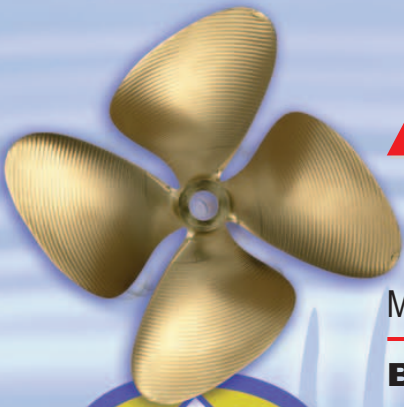
Ambush⁴

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"

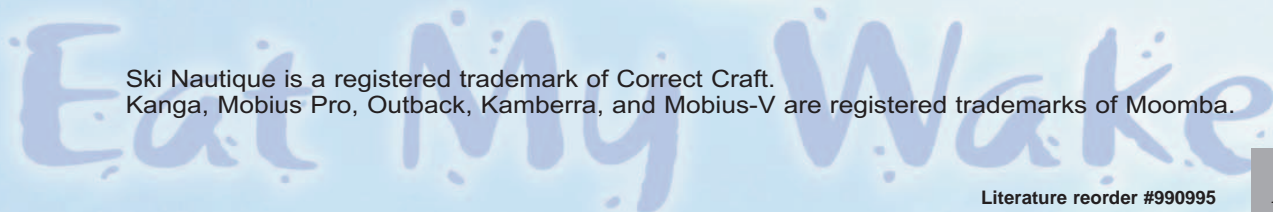


Application Guide



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.



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}				RAPTURE ^{XHS}				NEW APOLLO ^{XHS}				Drop-In Hub Use XHS TM Hub Kit 102 6 Use Gearcase Adapter Ring supplied with propeller. Refer to pages 42-43 for more details.
	3-BLADE				3-BLADE				STD 3-BLADE				
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	 NEW Apollo XHS Stainless Steel
16-18' - Runabouts, SK	13-3/4	R	15	992103					13-3/8	R	15	993153	
16-18' - Runabouts, SK									13-3/8	R	17	993155	
15-17' - Runabouts, SK	13-1/4	R	17	992104					13-1/4	R	17	993144	
15-17' - Runabouts, SK									13-1/4	R	19	993154	
14-16' - Runabouts, SK	13	R	19	992105	13-1/4	R	19	993105	13-1/4	R	19	993145	
14-16' - Runabouts, SK									13-1/8	L	19	993155	
13-15' - Runabouts, SK	12-3/4	R	21	992106	13-1/4	R	21	993106	13	R	21	993146	
13-15' - Runabouts, SK									13	L	21	993156	

BOAT DESCRIPTION/LENGTH	MICHIGAN WHEEL							BALLISTIC TM STAINLESS STEEL PROPS					Rubber Hub Bushing Use OEM fwd washer 13191 tab washer 14-816629 or MWC Kit 990332 or 9660-1 See Page 23 for details.					
	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	48-77344A40	031055											
19-24' - AL, SK	13-3/4	R	15	3	AL	48-77342A40	051041	13-5/8	R	15	3	335130						
17-20' - AL, SK	13-1/4	R	17	3	AL	48-77344A40	051042	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	

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.
- When using rubber hub propeller, use thrust washer 13191A1. **LIMITED INVENTORY ITEMS.**

OUTBOARD PROPELLERS

MOTOR APPLICATION GUIDE




2-4 HORSEPOWER

Non-Thru Hub Exhaust

2, 3.3 HP2000 & Newer 3-4 HP1952-73

● Hub is not included with propeller.


BOAT DESCRIPTION/LENGTH									012001	No Hub See ●
	ALUMINUM & STAINLESS STEEL PROPS									
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.			
Standard Replacement	6-1/8	L	4-1/2	3	AL	203919	● 012001			

5.5-6 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

5.5-6 HP1954-65


● Hub is not included with propeller.

BOAT DESCRIPTION/LENGTH									012067	No Hub See ●
	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		▶ 012067			
12-14' - LL	8	R	7-1/4	2	AL	376968	● 012060			

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									012032	Rubber Hub Bushing
	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			

10 HORSEPOWER

Non-Thru Hub Exhaust & 13 Tooth Spline


10 HP1951-57

BOAT DESCRIPTION/LENGTH									012006	Rubber Hub Bushing
	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			

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									012008	Rubber Hub Bushing
	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			
14-16' - Runabouts	8-1/4	R	9	3	AL	391534	▶ 012101			
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			

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.

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

15-25 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

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

BOAT DESCRIPTION/LENGTH							
	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
16-18' - HL	9	R	8	3	AL		▶ 012014
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
12-14' - LL	9-1/4	R	12	3	AL		▶ 012010




Rubber Hub Bushing

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							
	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
16-18' - HL	9	R	9	3	AL		▶★ 011030
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



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. § Commercial & Workhorse Applications. ▶ LIMITED INVENTORY ITEMS.

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} [™]			
	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



992504
Vortex XHS[™]
Aluminum Propeller

Drop-In Hub

Use XHS[™]
Hub Kit
121

Refer to pages 42-43
for more details.

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH [™]						BALLISTIC [™]					
	ALUMINUM & STAINLESS STEEL PROPS						BALLISTIC					
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
16-18' - AL	10-1/4	R	11	3	AL		▶ 062012					
14-16' - AL	10-1/4	R	12	3	AL		▶ 062013					
14-16' - AL	10-1/4	R	13	3	AL		▶ 062014	10-1/8	R	13	3	305529
								10-1/8	R	15	3	305530



062013

Rubber
Hub
Bushing

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 42-43
for more details.

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH [™]						BALLISTIC [™]					
	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

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.

25-40 HORSEPOWER
Non-Thru Hub Exhaust & Pin Drive

25 HP .....1951-55	33 HP .....1965-70	40 HP .....1960-76
28 HP .....1962-64	35 HP .....1957-59	40 HP §1978-85
30 HP .....1956		

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
12-14' - LL	10-1/2	R	13	3	AL	384460	▶ 012028



Rubber Hub Bushing

40-50 HORSEPOWER (4-STROKE)
Thru Hub Exhaust & 13 Tooth Spline

40 HP (4-Stroke)1999 & Newer	50 HP (4-Stroke)1999 & Newer
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BOAT DESCRIPTION/LENGTH	VORTEX ^{XHS} ™ HIGH PERFORMANCE ALUMINUM PROPELLERS				NEW 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.		
				12	R 8	992401		
				12	R 9	992402		
18-21' - AL				12	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					



Drop-In Hub

Use XHS™ Hub Kit 115

Refer to pages 42-43 for more details.

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							RAPTURE				BALLISTIC™ STAINLESS STEEL PROPS				
	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


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. ★ Indicates a cupped propeller. ▶ LIMITED INVENTORY ITEMS.

40-75 HORSEPOWER • SMALL GEARCASE

Thru Hub Exhaust & 13 Tooth Spline

40 HP 2 Cyl. ....1984 & Newer	60 HP 2 Cyl. ....1980-85	Sprint .....1986-92
48 HP .....1987-96	75 HP 3 Cyl. ....1975-85	Formula E .....1986-92
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.
				12	R	8	992401	
				12	R	9	992402	
				12	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				






992301
Vortex XHS™ Aluminum Propeller



992402
Vortex XHS™ Aluminum Propeller

Drop-In Hub
Use XHS™ Hub Kit
111

Refer to pages 42-43 for more details.

BOAT DESCRIPTION/LENGTH	 REPLACEMENT PROPELLERS												 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	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	386786	▶ 012038	11-3/4	R	15	013082	12-3/8	R	15	3	325030	
14-17' - AL, SK	12-1/4	R	15	3	AL	176421	★ 011027										
14-17' - AL, SK	12-1/4	R	15	3	SS	390850	▶ 013010										
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	R	19	3	AL	176423	▶★ 011029	11-3/4	R	19	013084						
12-14' - LL	11-1/4	R	19	3	SS	390852	▶ 013032										
12-14' - LL	11-1/2	R	19	3	AL	386908	▶ 012040										

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.



 PERFORMANCE PROPELLERS













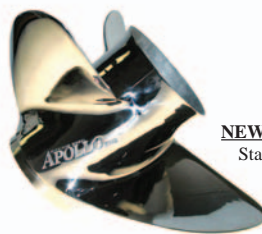


 STAINLESS STEEL PROPS

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									 				ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS
	3-BLADE				3-BLADE				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					13-3/8	R	15	993143	 <p>NEW Apollo XHS Stainless Steel</p>
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	993144	
15-17' - Runabouts, SK									13-1/4	L	17	993154	
14-16' - Runabouts, SK	13	R	19	992105	13-1/4	R	19	993105	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	13-1/4	R	21	993106	13	R	21	993146	
13-15' - Runabouts, SK									13	L	21	993156	

Drop-In Hub

Use XHS™
Hub Kit
106
&
110

Refer to pages 42-43
for more details.

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).

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	10	4	AL		111036					
CR, HB	14	R	11	3	AL	382761	012047					
CR, HB	14	R	13	3	AL	391668	*011001					
19-22' - AL, SK	14	R	12	4	AL		112075					
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	12-1/2	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	113034					
13-15' - AL, SK	14	R	21	3	AL	176216	111026					




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	112044
14-16' - AL, SK	10	R	12	3	AL	378039	112045




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
* 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	 ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
	20-24' - 1 Engine	14	R	11	3	AL	382676	► 012089
20-24' - 1 Engine	14	R	12	3	AL	382017	► 012090



Rubber Hub Bushing

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												
	3-BLADE				3-BLADE				STD 3-BLADE			
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.
19-22' - Runabouts, SK	13-3/4	R	15	992103					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	993144
18-21' - Runabouts, SK									13-1/4	L	17	993154
17-20' - Runabouts, SK	13	R	19	992105	13-1/4	R	19	► 993105	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	13-1/4	R	21	► 993106	13	R	21	993146
15-18' - Runabouts, SK									13	L	21	993156




NEW Apollo XHS Stainless Steel


Drop-In Hub

Use XHS™ Hub Kit 106

Do NOT use Gearcase Adapter Ring supplied with propeller.

Refer to pages 42-43 for more details.

BOAT DESCRIPTION/LENGTH							
	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
CR, HB	14	R	10	4	AL		►★ 011036
CR, HB	14	R	11	3	AL	382761	012047
CR, HB	14	R	12	4	AL		► 012075
CR, HB	14	R	13	3	AL	391668	011001
20-24' - AL, SK	13-3/4	R	15	3	AL	391198	011002
19-22' - AL, SK	13-1/4	R	17	3	AL	391199	011003
19-22' - AL, SK	14	R	17	3	AL	176214	011024
17-19' - AL, SK	13	R	19	3	AL	390896	011004
17-19' - AL, SK	14	R	19	3	AL	176215	011025
15-18' - AL, SK	12-3/4	R	21	3	AL	389788	011005
15-18' - AL, SK	12-3/4	R	21	3	SS	389512	► 013034
15-18' - AL, SK	14	R	21	3	AL	176216	► 011026
High Performance							13-1/2 R 22 3 335034
High Performance							13-1/2 R 24 3 335035

									
BALLISTIC					BALLISTIC XL				
Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
					13-5/8	R	15	3	335030
					12-1/2	R	17	3	335031
					13-3/8	R	19	3	335032
					13-1/8	R	21	3	335033






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

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	 3-BLADE				 3-BLADE				 NEW  <small>ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS</small>				Drop-In Hub Use XHS™ Hub Kit 125 & 126 Use Gearcase Adapter Ring supplied with propeller. Refer to pages 42-43 for more details.			
	3-BLADE				STD 3-BLADE				 NEW Apollo XHS Stainless Steel							
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.					Dia.	Rot.	Pitch	Part No.
19-22' - Runabouts, SK	13-3/4	R	15	992103									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	993144
18-21' - Runabouts, SK													13-1/4	L	17	993154
17-20' - Runabouts, SK	13	R	19	992105	13-1/4	R	19	993105					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	13-1/4	R	21	993106	13	R	21	993146				
15-18' - Runabouts, SK									13	L	21	993156				

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	 MICHIGAN MATCH <small>REPLACEMENT PROPELLERS</small>							 BALLISTIC <small>STAINLESS STEEL PROPS</small>								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' - 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

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







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 42 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	15-3/4	R	15	993022												
								14-1/4	L	15	993012	14-3/8	L	15	993052	15-3/4	L	15	993032												
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 42-43 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 42-43 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 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

¶ 2-1/2" of skeg must be removed 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							
	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




Rubber Hub Bushing

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							
	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




Rubber Hub Bushing

6-10 HORSEPOWER

Non-Thru Hub Exhaust & 14 Tooth / Pin Drive

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

BOAT DESCRIPTION/LENGTH							
	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




Rubber Hub Bushing

25 HORSEPOWER

Thru Hub Exhaust & 10 Tooth Spline

25 HP 3 Cyl.1995-98


BOAT DESCRIPTION/LENGTH				
	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



992504
Vortex XHS™ Aluminum Propeller

Drop-In Hub
Use XHS™ Hub Kit
120

Refer to pages 42-43 for more details.

BOAT DESCRIPTION/LENGTH							
	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

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 HP .....1995-98	70 HP .....1991-95	75 HP .....1996-98
------------------------	--------------------	--------------------

BOAT DESCRIPTION/LENGTH	VORTEX ^{XHS™}				HIGH PERFORMANCE ALUMINUM PROPELLERS				NEW 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					12	R	8	992401								
19' & Up					12	R	9	992402								
17-19' - AL, SK					12	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												



Drop-In Hub

Use XHS™ Hub Kit **114**

Refer to pages 42-43 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	12	R	10-1/2	3	AL		★ 031071									
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

❖❖ Two piece lower unit.

★ Indicates a cupped propeller.

▶ LIMITED INVENTORY ITEMS.

70-135 HORSEPOWER

Non-Thru Hub Exhaust & 18 Tooth Spline & Pin Drive

70-135 HP♦♦1970-79

BOAT DESCRIPTION/LENGTH	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	FP-389	▶ 072032



Rubber Hub Bushing

70-140 HORSEPOWER

Non-Thru Hub Exhaust & 15 Tooth Spline

70-140HP♦1977-89

BOAT DESCRIPTION/LENGTH	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
17-19' - AL, SK	14	R	13	3	AL	FPS501	▶ 072054
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 Bushing

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	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	▶* 071037
16-18' - AL, SK	13	R	19	3	AL	48-FP686-1	072129
Up to 16' - AL, SK	12-5/8	R	21	3	AL	48-FP694	▶* 071038



Rubber Hub Bushing

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

Thru Hub Exhaust & 15 Tooth Spline

75-150 HP1995 & Newer

BOAT DESCRIPTION/LENGTH	VORTEX ^{XHS}				RAPTURE ^{XHS}				APOLLO ^{XHS}			
	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					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	993144
15-17' - Runabouts, SK									13-1/4	L	17	993154
14-16' - Runabouts, SK	13	R	19	992105	13-1/4	R	19	▶ 993105	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	13-1/4	R	21	▶ 993106	13	R	21	993146
13-15' - Runabouts, SK									13	L	21	993156



NEW Apollo XHS Stainless Steel

Drop-In Hub

Use XHS™ Hub Kit 102

Use Gearcase Adapter Ring supplied with propeller.

Refer to pages 42-43 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.
- ♦♦ Two 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

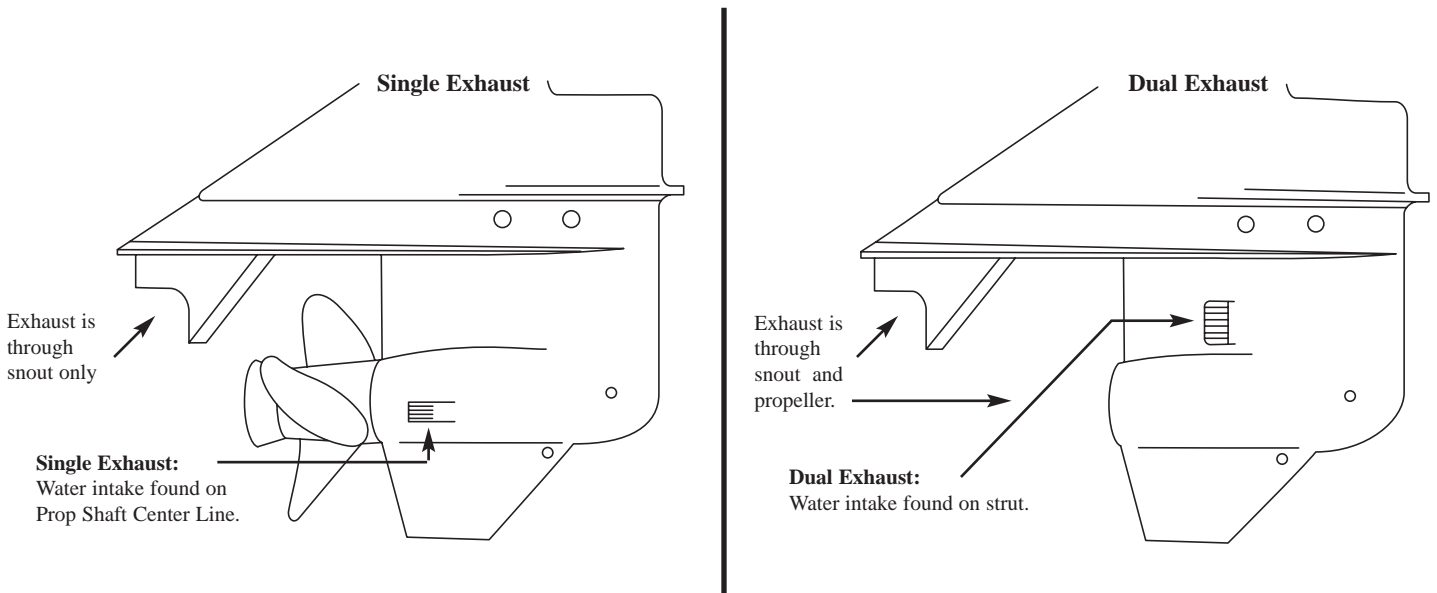
75 HP ††1999 & Newer 90, 120 HP ††1995-98 150 HP †1989-94
 90 HP L-Drive †1990-91 120 HP L-Drive †1990-91 150 HP L-Drive †1991

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											
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	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	

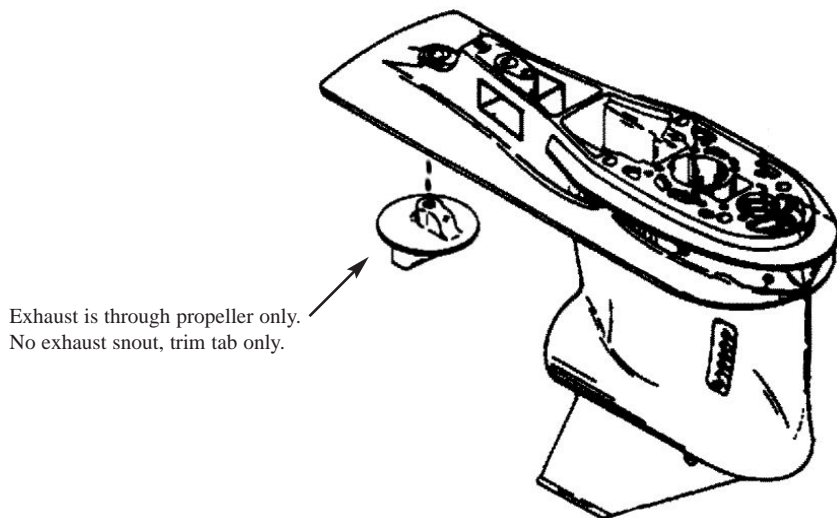
Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless

† 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.

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	 ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
14-16'	9	R	8	3	AL		▶ 012014
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
12-14' - LL	9-1/4	R	12	3	AL		▶ 012010




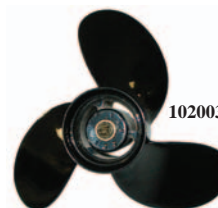
Rubber Hub Bushing

8-15 HORSEPOWER

Thru Hub Exhaust & 8 Tooth Spline

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

BOAT DESCRIPTION/LENGTH	 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




Rubber Hub Bushing

25-30 HORSEPOWER

Thru Hub Exhaust & 10 Tooth Spline

BF 25All Years BF 30All Years

BOAT DESCRIPTION/LENGTH	 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



992504
Vortex XHS™ Aluminum Propeller


Drop-In Hub

Use XHS™ Hub Kit 119

Refer to pages 42-43 for more details.



Ballistic High Performance Stainless Steel Propeller

 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					

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.

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.
				12	R 8	992401			
				12	R 9	992402			
19-21' - AL, SK				12	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						



NEW Apollo XHS Stainless Steel

Drop-In Hub
 Use XHS™ Hub Kit **113**
 Refer to pages 42-43 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									 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
	3-BLADE		3-BLADE		STD 3-BLADE							
	Dia.	Rot. Pitch	Part No.	Dia.	Rot. Pitch	Part No.	Dia.	Rot. Pitch	Part No.	Dia.	Rot. Pitch	Part No.
19-24' - AL, SK	13-3/4	R 15	992103				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	993144			
17-20' - AL, SK							13-1/4	L 17	993154			
16-19' - AL, SK	13	R 19	992105	13-1/4	R 19	993105	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	13-1/4	R 21	993106	13	R 21	993146			
15-18' - AL, SK							13	L 21	993156			



NEW Apollo XHS Stainless Steel

Drop-In Hub
 Use XHS™ Hub Kit **102 & 107**
 Refer to pages 42-43 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									
22' & Up - AL	14	R	13	3	AL	58130-ZW1-W11ZA	031055										
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					
Up to 17" - LL	12-1/2	R	23	3	AL	58130-ZW1-W51ZA	031045										
High Performance													13-1/2	R	22	3	335134
High Performance													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.	Dia.	Rot.	Pitch	Part No.
15-1/4	R	15	992002									14-3/8	R	15	993042	15-3/4	R	15	993022								
								14-1/4	L	15	993012	14-3/8	L	15	993052	15-3/4	L	15	993032								
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
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Refer to pages 42-43
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	13-1/2	R	23	3	SS		033006	14-1/4	R	23	3	345135					
17-20' - AL, SK	14	R	23	3	AL	58130-ZY3-023A	031068	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.

★ Indicates a cupped propeller.



4-10 HORSEPOWER
Thru Hub Exhaust & 8 Tooth Spline

MODEL 401973-75 MODEL 451973-81

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS							Part No.		Rubber Hub Bushing
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM 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			

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	 ALUMINUM & STAINLESS STEEL PROPS							Part No.		Rubber Hub Bushing
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.				
HB, WB	9-3/4	R	5-1/2	3	AL	48-828148A12	032060			
HB, WB	9-3/4	R	6-1/2	3	AL	48-828150A12	032058			
16-20' - AL	9-1/4	R	7	3	AL	48-828152A12	032056			
14-19' - AL	9	R	8	3	AL	48-828154A12	032054			
14-18' - AL	9	R	9	3	AL	48-828156A12	032052			
14-16' - AL	9	R	10-1/2	3	AL	48-828158A12	032050			

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	 3-BLADE				Part No.		992504 Vortex XHS™ Aluminum Propeller	Drop-In Hub Use XHS™ Hub Kit 120 Refer to pages 42-43 for more details.
	Dia.	Rot.	Pitch					
	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			

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS						 BALLISTIC					Rubber Hub Bushing	
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM 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

MERC 20
Thru Hub Exhaust & 8 Tooth Spline

Merc. 201963-81

BOAT DESCRIPTION/LENGTH	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

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	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
12-14' - LL	9-1/4	R	12	3	AL	48-96622	012010



Rubber Hub Bushing

25-30 HORSEPOWER • MARINER • THRU HUB EXHAUST
Thru Hub Exhaust & 10 Tooth Spline

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

BOAT DESCRIPTION/LENGTH	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

MODELS 300-500 (1962-69)
Thru Hub Exhaust & 11 Tooth Spline

MODELS 300, 350, 400, 450, 500 ...1962-69

BOAT DESCRIPTION/LENGTH	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
17-19' - AL, SK	10-1/4	R	10	3	AL	48-33774A1	032084
16-17' - AL, SK	10-1/4	R	11	3	AL	48-38098A1	032085
14-16' - LL	10-1/4	R	13	3	AL	48-38090A1	032087



Rubber Hub Bushing

MODELS 400-500 (1970-73)
Thru Hub Exhaust & 13 Tooth Spline

MODELS 400, 402, 5001970-73

BOAT DESCRIPTION/LENGTH	ALUMINUM & STAINLESS STEEL PROPS						
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
14-16' - AL, SK	10-1/4	R	13	3	AL	48-56236A1	032099





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.

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

Thru Hub Exhaust & 13 Tooth Spline




MODEL 402-500 .....1974-76		MODEL 650 .....1972-76				60 HP (Mariner) .....1976			
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.	
				12	R	8	992401		
				12	R	9	992402		
19-22' - AL, SK				12	R	10	992403		
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					



NEW Apollo XHS Stainless Steel

Drop-In Hub
Use XHS™ Hub Kit **114**

Refer to pages 42-43 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.
	19-22' - 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

25-80 HORSEPOWER

Thru Hub Exhaust & 13 Tooth Spline

MODEL 402-500-700 .....1977-84	40 HP (2 & 4-Stroke) (Not Bigfoot) ..1977 & Newer	55 HP (Mercury/Sea Pro/Marathon) ...1995 & Newer
25 HP Bigfoot (4-Stroke) .....1999 & Newer	40 HP (Sea Pro/Marathon) .....1977 & Newer	60 HP (Not Bigfoot or Sea Pro) .....1978 & Newer
30 HP (2 & 4-Stroke) .....1994 & Newer	45 HP .....1986-89	60 HP (2-Stroke) .....1978 & Newer
30 HP (Sea Pro/Marathon) .....1994 & Newer	48 HP (Mariner) .....All Years	70 HP .....Thru 1983
35 HP .....1984-89	50 HP (2 & 4-Stroke) (Not Bigfoot) ..1977 & Newer	

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' & 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	12	R	10-1/2	3	AL		▶ 031071									
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 tab 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.

25-80 HORSEPOWER (continued)

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 & Newer	40 HP (Sea Pro/Marathon)1977 & Newer	60 HP (Not Bigfoot or Sea Pro)1978 & Newer
30 HP (2 & 4-Stroke)1994 & Newer	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				NEW 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.		
			12 R 8	992401				
			12 R 9	992402				
			12 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
Up to 15' - LL	10	R 15	992408			10-1/8	R 15	993408
Up to 15' - LL	10	R 16	992409					



NEW Apollo XHS Stainless Steel

Drop-In Hub

Use XHS™ Hub Kit 114

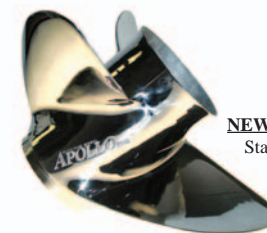
Refer to pages 42-43 for more details.

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}				RAPTURE ^{XHS}				NEW APOLLO ^{XHS}			
	3-BLADE		3-BLADE		STD 3-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.
16-18' - Runabouts, SK	13-3/4	R 15	992103			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	993144				
15-17' - Runabouts, SK						13-1/4	L 17	993154				
14-16' - Runabouts, SK	13	R 19	992105	13-1/4	R 19	993105	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	13-1/4	R 21	993106	13	R 21	993146			
13-15' - Runabouts, SK							13	L 21	993156			



NEW Apollo XHS Stainless Steel

Drop-In Hub

Use XHS™ Hub Kit 102

Use Gearcase Adapter Ring supplied with propeller.

Refer to pages 42-43 for more details.

BOAT DESCRIPTION/LENGTH	MATCH REPLACEMENT PROPELLERS							BALLISTIC ST 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										
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 23 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.
 ▼ When using rubber hub propeller, use thrust washer 13191A1. ▶ LIMITED INVENTORY ITEMS.

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 42 for more details.

Use thrust washer 13171Add 4" pitch for twin motors

VORTEX ^{XHS} HIGH PERFORMANCE ALUMINUM PROPELLERS				RAPTURE ^{XHS}				APOLLO ^{XHS} 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	15-3/4	R	15	993022												
								14-1/4	L	15	993012					14-3/8	L	15	993052	15-3/4	L	15	993032								
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
102

Refer to pages 42-43 for more details.

BOAT DESCRIPTION/LENGTH	MICHIGAN ALUMINUM 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.			
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	13-1/2	R	23	3	AL	48-78124A40	031027	14-1/4	R	23	3	345135								
17-20' - AL, SK	13-1/2	R	23	3	SS	48-16320A4	033006	14-1/4	L	23	3	345165								
17-20' - AL, SK	14	R	23	3	AL	48-832834A45	031068													
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
Bushings

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

See Page 23 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

Replacing a Flo-Torq™ Hub with Michigan Propellers

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

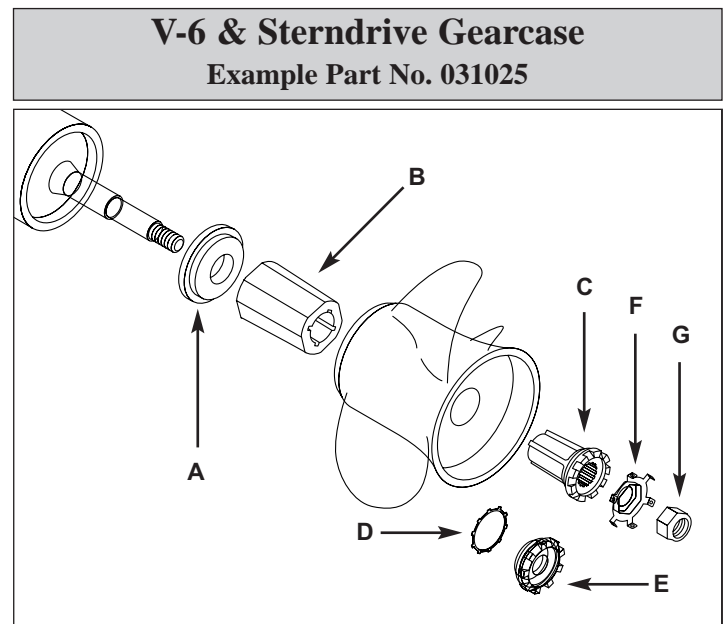
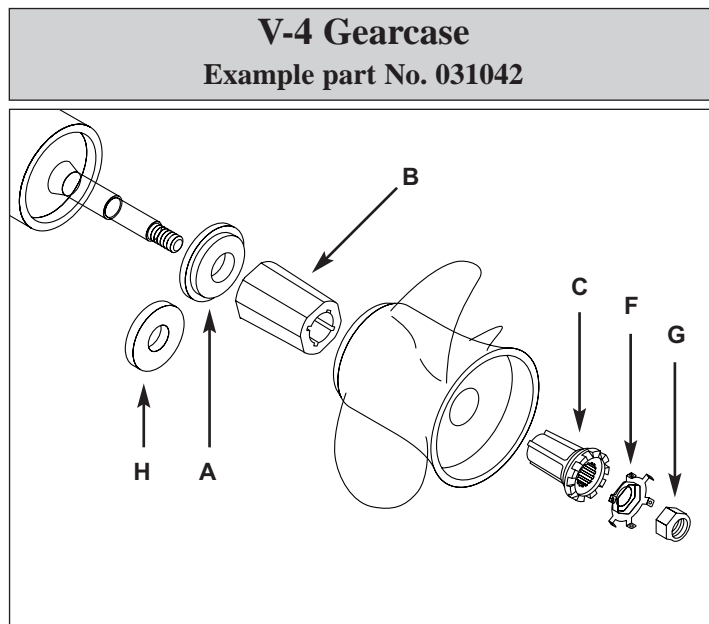
Propellers supplied from Mercury™, Mariner™ and Force® since 1996 come with Flo-Torq II™ drop in hubs equipped with attaching hardware A,B,C,F & G per the following illustrations. When switching to Michigan Match™ or Rapture™ propellers, change the attaching hardware set up as follows.

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							142019	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
14-18' - AL	9.2	R	6.9	3	AL	362-64105-0	▶ 142015		
12-16' - AL	9.2	R	8.4	3	AL	362-64102-0	142017		
10-14' - AL	9.2	R	9.8	3	AL	362-64108-0	142019		

25-30 HORSEPOWER

Thru Hub Exhaust & 10 Tooth Spline

25 HP1986 & Newer 30 HP1985 & Newer


BOAT DESCRIPTION/LENGTH	VORTEX XHS™				992504	Vortex XHS™ Aluminum Propeller	Drop-In Hub Use XHS™ Hub Kit 122
	3-BLADE						
	Dia.	Rot.	Pitch	Part No.			
16-20' - AL	10-1/2	R	9	992501		Refer to pages 42-43 for more details.	
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			


BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							BALLISTIC™ STAINLESS STEEL PROPS					142022	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.		
16-20' - AL	10.2	R	8.3	3	AL	346-64106-5	142020							
14-18' - AL	9.8	R	10.2	3	AL	346-64102-5	▶ 142022							
12-16' - AL							10-1/8			R	13	3	305429	
12-16' - AL							10-1/8			R	15	3	305430	
12-16' - AL														

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				116	Drop-In Hub Use XHS™ Hub Kit 116					
	3-BLADE				4-BLADE						STD 3-BLADE				
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.			Dia.	Rot.	Pitch	Part No.	
				12	R	8	992401		NEW Apollo XHS Stainless Steel						
				12	R	9	992402								
20' & Up				12	R	10	992403								
17-21' - AL	10-3/8	R	11	992404								10-3/4	R	12	993405
16-17' - AL	10-3/8	R	12	992405								10-1/2	R	13	993406
14-16' - AL	10-3/8	R	13	992406								10-3/8	R	14	993407
12-14' - AL	10-3/8	R	14	992407				10-1/8	R	15	993408				
Up to 13' - AL	10	R	15	992408											
	10	R	16	992409											




BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							RAPTURE				142001	Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS												
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	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	10-1/2	R	12	143002		
14-16' - AL								10-1/2	R	13	143003		
12-14' - AL	10.2	R	13.9	3	AL	348-64103-0	▶ 142004	10-1/2	R	14	143004		
Up to 13' - AL								10-1/2	R	15	143005		

50-70 HORSEPOWER

Thru Hub Exhaust

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	Drop-In Hub Use XHS™ Hub Kit 112 Refer to pages 42-43 for more details.
	3-BLADE				4-BLADE						
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.			
				12	R	8	992401				
				12	R	9	992402				
				12	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							


BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS							 RAPTURE				 BALLISTIC™ STAINLESS STEEL PROPS					Rubber Hub Bushing
	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	
14-17' -AL, SK	12-1/4	R	15	3	SS		▶ 013010										
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						

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	 3-BLADE				 3-BLADE				 STD 3-BLADE				 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS					Drop-In Hub Use XHS™ Hub Kit 109 Use Gearcase Adapter Ring supplied with propeller. Refer to pages 42-43 for more details.
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	
	19-22' - Runabouts, SK	13-3/4	R	15	992103					13-3/8	R	15	993143	 NEW Apollo XHS Stainless Steel				
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	993144						
18-21' - Runabouts, SK									13-1/4	L	17	993154						
17-20' - Runabouts, SK	13	R	19	992105	13-1/4	R	19	▶ 993105	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	13-1/4	R	21	▶ 993106	13	R	21	993146						
15-18' - Runabouts, SK									13	L	21	993156						

BOAT DESCRIPTION/LENGTH	 mALUMINUM & STAINLESS STEEL PROPS							 BALLISTIC™ STAINLESS STEEL PROPS					 Rubber Hub Standard OEM Replacement Aluminum	Rubber Hub Bushing
	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		


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.

9.9-15 HORSEPOWER

Thru Hub Exhaust & 10 Tooth Spline

DT 9.91983-87 DT 151983-88 DT 15(4-Stroke)1997 & Newer
 DF 9.9 (4-Stroke)1997 & Newer DT 15C1989-97

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH REPLACEMENT PROPELLERS							OEM Part No.	Part No.	062016		Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS											
	Dia.	Rot.	Pitch	Bld#	Mat'l							
14-20' - AL	9-1/4	R	7	3	AL	58100-93703-019	▶	062015				
14-18' - AL	9-1/4	R	9	3	AL	58100-93723-019		062016				
14-16' - AL	9-1/4	R	11	3	AL	58100-93743-019	▶	062017				

25-30 HORSEPOWER

Thru Hub Exhaust & 10 Tooth Spline

DT 25C1989 & Newer DT 30, 30C1987-97 DF 25 (4-Stroke)2000 & Newer
 DT 20, 251987-88 DT 30 @1983-86 DF 30 (4-Stroke)2000 & Newer
 DT 20, 25 @1983-86

BOAT DESCRIPTION/LENGTH	VORTEX XHS™				OEM Part No.	Part No.	992504		Vortex XHS™ Aluminum Propeller	Drop-In Hub Use XHS™ Hub Kit 121 Refer to pages 42-43 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.		
16-18' - AL	10-1/4	R	11	3	AL	58100-96420-019	▶	062012						
14-16' - AL	10-1/4	R	12	3	AL	58100-96430-019	▶	062013	10-1/8	R	13	3	305529	
14-16' - AL	10-1/4	R	13	3	AL	58100-96440-019	▶	062014	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

▶ 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			
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.
				12	R	8	992401					
				12	R	9	992402					
18-21' - AL				12	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								






NEW Apollo XHS Stainless Steel

Drop-In Hub

Use XHS™ Hub Kit **115**




Refer to pages 42-43 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.	
	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	 3-BLADE				 3-BLADE				 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.
	19-22' - Runabouts, SK	13-3/4	R	15	992103					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	993144
18-21' - Runabouts, SK									13-1/4	L	17	993154
17-20' - Runabouts, SK	13	R	19	992105	13-1/4	R	19	▶ 993105	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	13-1/4	R	21	▶ 993106	13	R	21	993146
15-18' - Runabouts, SK									13	L	21	993156




NEW Apollo XHS Stainless Steel

Drop-In Hub

Use XHS™ Hub Kit **110**

Do NOT use Gearcase Adapter Ring supplied with propeller.

Refer to pages 42-43 for more details.

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS							
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	
	17-19' - AL, SK	13-3/4	R	15	3	AL	58100-95500-019	▶ 061001
17-19' - AL, SK	13-3/4	R	15	3	SS	99105-00100-16P	▶ 063001	
15-18' - AL, SK	13-1/4	R	17	3	AL	58100-95511-019	▶ 061002	
14-16' - AL, SK	13	R	19	3	AL	58100-95521-019	▶ 061003	



061003






Rubber Hub Bushing

★ Indicates a cupped propeller. ▶ LIMITED INVENTORY ITEMS.
 + 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
----------------------------------------	-----------------------------------------	-----------------------------------------

BOAT DESCRIPTION/LENGTH	 3-BLADE				 3-BLADE				  STD 3-BLADE				ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	 <p>NEW Apollo XHS Stainless Steel</p>			
19-22' - Runabouts, SK	13-3/4	R	15	992103					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	993144				
18-21' - Runabouts, SK									13-1/4	L	17	993154				
17-20' - Runabouts, SK	13	R	19	992105	13-1/4	R	19	993105	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	13-1/4	R	21	993106	13	R	21	993146				
15-18' - Runabouts, SK									13	L	21	993156				

Drop-In Hub
Use XHS™ Hub Kit **125 & 126**
Refer to pages 42-43 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

150-225 HORSEPOWER

Thru Hub Exhaust & 15 Tooth Spline

DT 1501986 & Newer	DT 2001986 & Newer	DT 2502004 & Newer
DT 1751986-92	DT 2251990 & Newer	

 HIGH PERFORMANCE ALUMINUM PROPELLERS				 3-BLADE				  STD 3-BLADE				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	15-3/4	R	15	993022								
								14-1/4	L	15	993012	14-3/8	L	15	993052	15-3/4	L	15	993032								
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 **104**
Refer to pages 42-43 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									Rubber Hub Bushing
	ALUMINUM & STAINLESS STEEL PROPS								
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
General Usage	8-1/2	R	6-1/2	3	AL	6G1-45947-00-EL	▶ 102001		
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									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		
14-16' - AL	8-1/4	R	9	3	AL		▶ 012101		

9.9-15 HORSEPOWER

Thru Hub Exhaust & 8 Tooth Spline



9.9 HP1984 & Newer 15 HP1984 & Newer

BOAT DESCRIPTION/LENGTH									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									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		
12-14' - LL	9-1/4	R	12	3	AL		▶ 012010		

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.

20-30 HORSEPOWER
Thru Hub Exhaust & 10 Tooth Splines

20 HP1996-97 25 HP (4-Stroke)2001 30 HP1979 & Newer
25 HP1980 & 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 42-43
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.
16-18' - 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							
14-17' - General Usage							

BALLISTIC™ STAINLESS STEEL PROPS			
Dia.	Rot.	Pitch	Part No.
10-1/8	R	13	305929
10-1/8	R	15	305930



022001

Rubber Hub Bushing

40-60 HORSEPOWER
Thru Hub Exhaust & 13 Tooth Splines

40 HP1984 & Newer 55 HP1976-95 FS 50 (4-Stroke)1995 & Newer
48 HP1995 & Newer 60 HP1976-91 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			
	3-BLADE			
	Dia.	Rot.	Pitch	Part No.
19-22' - LL				
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

NEW APOLLO ^{XHS™} ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
STD 3-BLADE			
Dia.	Rot.	Pitch	Part No.



NEW Apollo XHS
Stainless Steel

Drop-In Hub
Use XHS™
Hub Kit
117
Refer to pages 42-43
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.
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

RAPTURE			
Dia.	Rot.	Pitch	Part No.
10-1/2	R	10	033093
10-1/2	R	12	033094
10-1/2	R	13	033095
10-1/2	R	14	033096
10-1/2	R	15	033097

BALLISTIC™ STAINLESS STEEL PROPS				
Dia.	Rot.	Pitch	Bld#	Part No.
10-1/8	R	13	3	395929
10-1/8	R	15	3	395930

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

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

BOAT DESCRIPTION/LENGTH	VORTEX ^{XHS™}				RAPTURE ^{XHS™}				NEW APOLLO ^{XHS™}				ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS
	3-BLADE				3-BLADE				STD 3-BLADE				
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	
19-22' - Runabouts, SK	13-3/4	R	15	992103					13-3/8	R	15	▼993143	 <p>NEW Apollo XHS Stainless Steel</p>
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	▼993144	
18-21' - Runabouts, SK									13-1/4	L	17	▼993154	
17-20' - Runabouts, SK	13	R	19	992105	13-1/4	R	19	▶993105	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	13-1/4	R	21	▶993106	13	R	21	▼993146	
15-18' - Runabouts, SK									13	L	21	▼993156	
15-18' - Runabouts, SK													

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 42-43 for more details. Trim Tab 6E5-45371-10-00 is required when using the Apollo.

BOAT DESCRIPTION/LENGTH	MICHIGAN MATCH [™] ALUMINUM & STAINLESS STEEL PROPS								BALLISTIC [™] STAINLESS STEEL PROPS								
	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										
22' - AL	13-5/8	R	13	3	AL	6E5-45949-00-EL	101031										
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 21.

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 22.

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.

▼ 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 42 for more details.

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	15-3/4	R	15	993022								
								14-1/4	L	15	993012	14-3/8	L	15	993052	15-3/4	L	15	993032								
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 42-43
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	15-1/4	R	15	3	AL	6G5-45941-00-98	101025	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 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.

STERNDRIVE PROPELLERS

MOTOR APPLICATION GUIDE







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.
15-1/4	R	15	992002									14-3/8	R	15	993042	15-3/4	R	15	993022				
								14-1/4	L	15	993012	14-3/8	L	15	993052	15-3/4	L	15	993032				
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 42-43
 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	48-382830A45	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													
Up to 23' - (37-56 MPH)	14-3/4	R	21	3	SS	48-13702A41	033032	14-3/8	L	21	3	345164								
Up to 20' - (40-62 MPH)	13-1/2	R	23	3	SS	48-16320A4	033006													
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)	14-1/2	L	25	3	SS	48-13707A41	033035													
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 12-31211A3
 tab washer 14-816629
 or
 MWC Kit 990312
 or 9661-1

See Page 23 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 HP1995 500 HP1996 & Newer
 502 Magnum (390-415 HP)1990 & Newer 465 HP1991 & 94 525 HP (SC) (490-500)1992 & Newer

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS							Solid Hub
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	
	26-32'	15-1/4	L	19	3	SS	48-13242A50		▶▶033052
24-30'	14-3/4	R	21	3	SS	48-13244A50	▶▶033054	
24-30'	14-3/4	L	21	3	SS	48-13243A50	▶▶033053	
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	

MERCUISER - MODEL O

Thru Hub Exhaust & 11 Tooth Spline

HP Range: 60 HP
 For twin installation increase pitch 2".

BOAT DESCRIPTION/LENGTH	 ALUMINUM & STAINLESS STEEL PROPS							 032085 Rubber Hub Bushing
	Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	
	HB, Barges	10-1/4	R	10	3	AL	48-33774A1		▶ 032084
22-35'	10-1/4	R	11	3	AL	48-38098A1	▶ 032085	
Up to 17'	10-1/4	R	13	3	AL	48-38090A1	▶ 032087	

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 Wave Propellers include forward thrust washer 9500-120 and should be used in place of the existing one.



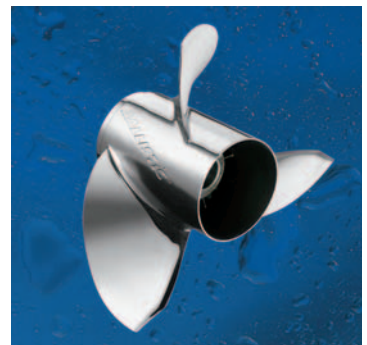
VORTEX™ XHS™
PERFORMANCE PROPELLERS



APOLLO™ XHS™




RAPTURE™ XHS™



BALLISTIC™
STAINLESS STEEL PROPS

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 [™]				RAPTURE [™] XHS [™]				NEW APOLLO [™] XHS [™]				ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS
	3-BLADE				3-BLADE				STD 3-BLADE				
	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	
19-22' - Runabouts, SK	13-3/4	R	15	992103					13-3/8	R	15	993143	 <p>NEW Apollo XHS Stainless Steel</p>
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	993144	
18-21' - Runabouts, SK									13-1/4	L	17	993154	
17-20' - Runabouts, SK	13	R	19	992105	13-1/4	R	19	993105	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	13-1/4	R	21	993106	13	R	21	993146	
15-18' - Runabouts, SK									13	L	21	993156	

Drop-In Hub

Use XHS[™]
Hub Kit
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Do NOT use Gearcase Adapter Ring supplied with propeller.

Refer to pages 42-43 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.
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
15-18' - (41-53 MPH)	14	R	21	3	AL	176216	011026					



011004

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.







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 40.

 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	15-3/4	R	15	993022								
								14-1/4	L	15	993012	14-3/8	L	15	993052	15-3/4	L	15	993032								
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 42-43 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.


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	



Rubber Hub Bushing



▶ LIMITED INVENTORY ITEMS. ¶ 2-1/2" of skeg must be removed for proper fit. Use thrust washer 33359.

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									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	12	3	AL	382017	▶ 012090		
	14	R	14	3	AL	381185	012091		
	14	R	16	3	AL	381186	012092		
	14	R	18	3	AL	381187	▶ 012093		
	14	R	20	3	AL	383287	▶ 012094		

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									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														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			
15-18' - (44-56 MPH)	14	R	21	3	AL	176216	▶ 011026								



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	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
14 x 17	LH	3	854977-6	▶ 082001-1
14 x 19	RH	3	854993-3	▶ 082004-1
14 x 19	LH	3	854978-4	▶ 082003-1
14 x 21	RH	3	851139-6	▶ 082010-1
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
16 x 15	RH	3	872001-3	▶ 082090-1
16 x 15	LH	3	854987-5	▶ 082091-1
16 x 17	RH	3	872002-1	▶ 082092-1

Standard Hub Propellers

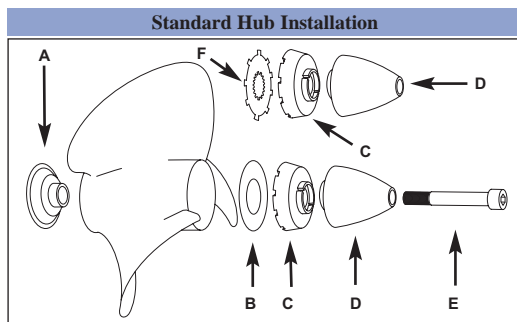
Non-Thru Hub Exhaust & 17 Tooth Spline

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
14 x 17	LH	3	814627-6	▶ 082027-1
14 x 19	LH	3	814628-4	▶ 082031-1
14 x 21	RH	3	814634-2	▶ 082034
14 x 21	LH	3	814629-2	▶ 082033
15 x 13	LH	3	813319-7	▶ 082087-1
15 x 15	LH	3	814611-0	▶ 082059-1
15 x 17	RH	3	814616-9	▶ 082030-1
15 x 19	RH	3	-	▶ 082022
15 x 19	LH	3	-	▶ 082021
15 x 21	LH	3	-	▶ 082023

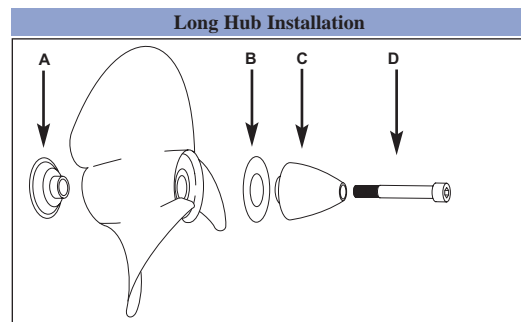
Long Hub Propellers are for use with model 275, 280 & 290 outdrives and late production 270 outdrives which have drilled propeller shaft.
Standard Hub Propeller installations are from outdrive serial #PZ2877179, and are NOT for use with V-6 diesel engines.
Propeller Hardware is available thru Volvo Distributors.

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



Standard Hub Propeller installations require:

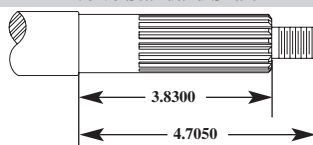
- A) Thrust Washer #839534-5 (Depth: .625")
- B) Washer #850888-9 or F) Washer #897367-9
- C) Spacer Ring #854047-8
- D) Propeller Cone #8504045-2
- E) Allen bolt #850889-7



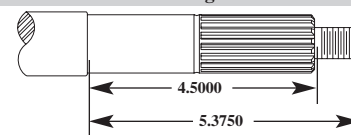
Long Hub Propeller Hardware:

- 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												 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	15-3/4	R	15	993022				
								14-1/4	L	15	▶ 993012	14-3/8	L	15	993052	15-3/4	L	15	993032				
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
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Refer to pages 42-43 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						
17-22' - (39-50 MPH)	14-1/4	R	21	3	SS	3850309	▶ 163008	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						
17-20' - (44-57 MPH)	14-1/4	R	23	3	SS	3850310	▶ 163010	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



Ballistic™ High Performance Stainless Steel

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.

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 42 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	15-3/4	R	15	993022												
								14-1/4	L	15	993012	14-3/8	L	15	993052	15-3/4	L	15	993032												
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
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Refer to pages 42-43
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)	15-1/4	R	15	3	AL	6G5-45941-00-98	101025	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)	13-3/4	R	21	3	SS	6G5-45972-03-98	103022	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

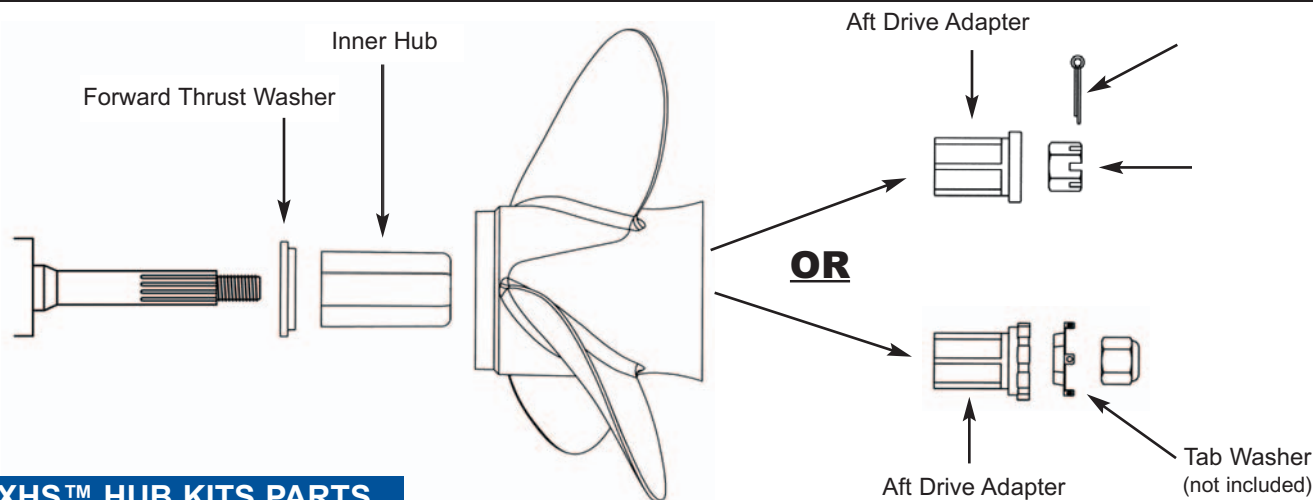
Rubber
Hub
Bushings

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.



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 Forward Thrust Washer 991201 Inner Hub 991203 Aft Drive Adapter
101	Evinrude/Johnson Outboards - OMC Sterndrives (V6/V8 Gearcase 1984 - 1990)	991204 Forward Thrust Washer 991201 Inner Hub 991203 Aft Drive Adapter
102	Mercury 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 Forward Thrust Washer 991201 Inner Hub 991205 Aft Drive Adapter 990346 Propeller Nut 990344 Tab Washer
103	Yamaha Outboards & Sterndrives (115-130 HP, 150-250 HP, V6 Gearcase 1984 to present)	991213 Forward Thrust Washer 991201 Inner Hub 991206 Aft Drive Adapter
104	Suzuki Outboards (150-225 HP, V6 Gearcase)	991207 Forward Thrust Washer 991201 Inner Hub 991208 Aft Drive Adapter
105	Volvo SX Sterndrives (19 tooth spline 1994 to present)	991202 Forward Thrust Washer 991201 Inner Hub 991209 Aft Drive Adapter
106	Evinrude/Johnson Outboards - OMC Sterndrives (V4 Gearcase 1968 to present)	991210 Forward Thrust Washer 991201 Inner Hub 991211 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 Forward Thrust Washer 991201 Inner Hub 991205 Aft Drive Adapter
108	Yamaha Outboards (50-100 HP, splined front thrust washer)	991212 Forward Thrust Washer 991201 Inner Hub 991206 Aft Drive Adapter

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)		
109	Nissan/Tohatsu Outboards (90-140 HP)	991213 Forward Thrust Washer
		991201 Inner Hub
		991214 Aft Drive Adapter
110	Suzuki V4 Outboards (60-140 HP)	991215 Forward Thrust Washer
		991201 Inner Hub
		991211 Aft Drive Adapter
124	225 4-Stroke EFI Mercury/Yamaha/Honda	991201 Urethane Cushion
		991205 Drive Adapter
		991213 Thrust Washer
		Stainless Steel Flat Washer
125	90-115 4-Stroke Suzuki/Johnson	991201 Urethane Cushion
		991205 Drive Adapter
		991253 Thrust Washer
		Stainless Steel Flat Washer
126	140 4-Stroke Suzuki/Johnson	991201 Urethane Cushion
		991205 Drive Adapter
		991204 Thrust Washer
		Stainless Steel Flat Washer
High Horsepower Inner Hub (Mercury part # 850821A2)		991272 Solid Hub
V4 Gearcaser Adapter Ring		991216 Adapter Ring
20-70 HP XHS™ Hub Kits		
111	Evinrude/Johnson Outboards (40-70 HP)	991225 Urethane Cushion
		991247 Thrust Washer
		991232 Drive Adapter
112	Tohatsu/Nissan Outboards (50-70 HP)	991225 Urethane Cushion
		991273 Thrust Washer
		991232 Drive Adapter
113	Honda Outboards (35-50 HP)	991225 Urethane Cushion
		991234 Thrust Washer
		991227 Drive Adapter
114	Mercury/Mariner/Force Outboards (30-70 HP)	991225 Urethane Cushion
		991236 Thrust Washer
		991227 Drive Adapter
115	Suzuki Outboards (30-70 HP)	991225 Urethane Cushion
		991239 Thrust Washer
		991231 Drive Adapter
116	Tohatsu/Nissan Outboards (35-50 HP)	991225 Urethane Cushion
		991241 Thrust Washer
		991227 Drive Adapter

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	
20-70 HP XHS™ Hub Kits (continued)			
117	Yamaha Outboards (40-60 HP)	991225	Urethane Cushion
		991243	Thrust Washer
		991227	Drive Adapter
118	Evinrude/Johnson Outboards (20-35 HP)	991225	Urethane Cushion
		991237	Thrust Washer
		991229	Drive Adapter
119	Honda Outboards (20-30 HP)	991225	Urethane Cushion
		991233	Thrust Washer
		991226	Drive Adapter
120	Mercury/Mariner/Force Outboards (18-25 HP)	991225	Urethane Cushion
		991235	Thrust Washer
		991228	Drive Adapter
121	Suzuki Outboards (25-30 HP)	991225	Urethane Cushion
		991238	Thrust Washer
		991230	Drive Adapter
122	Nissan/Tohatsu Outboards (25-30 HP)	991225	Urethane Cushion
		991240	Thrust Washer
		991226	Drive Adapter
123	Yamaha Outboards (20-30 HP)	991225	Urethane Cushion
		991242	Thrust Washer
		991230	Drive Adapter
20-30 HP Gearcase Adapter Ring		991244	Package including all three sizes

PROPELLER CROSS REFERENCE

MWC ALPHA-NUMERIC CROSS REFERENCE

(PAGE B2)

OEM CROSS REFERENCE

(PAGES B3 - B34)

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

(PAGE B34)

MICHIGAN WHEEL ALPHA-NUMERIC CROSS REFERENCE

Alpha Numeric	Numeric	Alpha Numeric	Numeric	Alpha Numeric	Numeric
AM431	012067	PJ 95	012054	PR126	012094
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	012074	PJ204-C	011009	PR161	032094
DQ328	012075	PJ205-C	011010	PR161-C	031004
EWC19	012076	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	012101
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	012001	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	012010	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	012026	PM518	032041	SSM249-C	033004
PJ 41	012027	PM521	032042	SSM251-C	033005
PJ 42	012028	PM524	032043	SSM253-C	033006
PJ 45	012030	PM527	032044	SSM350-C	033007
PJ 47	012031	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	012038	PM615-C	031019	SSM621-C	033019
PJ 61	012039	PM617-C	031020	SSO315-C	013010
PJ 62	012040	PR 33	032084	SSV171-C	083001
PJ 74	012042	PR 35	032085	SSV172-C	083002
PJ 75	012043	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	012090	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	012093	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)	.013069	.345063		.993014	.993054	.993034	.993214		.See Note 2	10, 37
174812	.VIPER™(LH)	.013071	.345064		.993015	.993055	.993035	.993215		.See Note 2	10, 37
174813	.VIPER™(LH)	.013073	.345065		.993016	.993056	.993036	.993216		.See Note 2	10, 37
174814	.VIPER™	.013068	.345033		.993004	.993044	.993024	.993204		.See Note 2	10, 37
174815	.VIPER™	.013070	.345034		.993005	.993045	.993025	.993205		.See Note 2	10, 37
174816	.VIPER™	.013072	.345035		.993006	.993046	.993026	.993206		.See Note 2	10, 37
174889	.VIPER™	.013066	.345032		.993003	.993043	.993023	.993203		.See Note 2	10, 37
174890	.VIPER™(LH)	.013067	.345062		.993013	.993053	.993033	.993213		.See Note 2	10, 37
174926	.SST II®	.013052	.013064	.345031		.993002	.993042	.993022		.See Note 2	10, 37
174927	.SST II® (LH)	.013051	.013065			.993012	.993052	.993032		.See Note 2	10, 37
174950		.012111									3
175190		.012055			.992503					.118	4
175191		.012056	.305029		.992505					.118	4
175738	.Renegade™ Bass			.435036							10, 37
175739	.Renegade™ Bass			.435037							10, 37
176058	.Renegade™ Bass			.435035							10, 37
176196	.Renegade™ Bass	.013034	.013079	.335033	.335034	.993106	.993146			.106	7, 8, 36, 38
176214		.011024	.013077	.335031		.992104	.993104	.993144		.106	7, 8, 36, 38
176215		.011025	.013078	.335032		.992105	.993105	.993145		.106	7, 8, 36, 38
176216		.011026	.013079	.335033		.992106	.993106	.993146		.106	7, 8, 36, 38
176421		.011027	.013082	.325030							6
176422		.011028	.013083	.325031							6
176423		.011029	.013084								6
176424					.992504					.118	4
176425					.992506					.118	4
176571			.335030			.993143				.106	7, 8, 36, 38
176572	.SST II®	.013030	.013077	.335031		.993104	.993144			.106	7, 8, 36, 38
176573	.SST II®	.013033	.013078	.335032		.993105	.993145			.106	7, 8, 36, 38
176574	.SST II®	.013034	.013079	.335033	.335034	.993106	.993146			.106	7, 8, 36, 38
176575	.Renegade™ O.S.(RH)	.013066	.345032		.993003	.993043	.993023	.993203		.See Note 2	10, 37
176576	.Renegade™ O.S.(RH)	.013068	.345033		.993004	.993044	.993024	.993204		.See Note 2	10, 37
176577	.Renegade™ O.S.(RH)	.013070	.345034		.993005	.993045	.993025	.993205		.See Note 2	10, 37
176578	.Renegade O.S.(LH)	.013067	.345062		.993013	.993053	.993033	.993213		.See Note 2	10, 37
176579	.Renegade O.S.(LH)	.013069	.345063		.993014	.993054	.993034	.993214		.See Note 2	10, 37
176580	.Renegade O.S.(LH)	.013071	.345064		.993015	.993055	.993035	.993215		.See Note 2	10, 37
176615	.Swept-Blade™	.013066	.345032		.993003	.993043	.993023	.993203		.See Note 2	10, 37
176616	.Swept-Blade™(LH)	.013067	.345062		.993013	.993053	.993033	.993213		.See Note 2	10, 37
176617	.Swept-Blade™	.013068	.345033		.993004	.993044	.993024	.993204		.See Note 2	10, 37
176618	.Swept-Blade™(LH)	.013069	.345063		.993014	.993054	.993034	.993214		.See Note 2	10, 37
176619	.Swept-Blade™	.013070	.345034		.993005	.993045	.993025	.993205		.See Note 2	10, 37
176620	.Swept-Blade™(LH)	.013071	.345064		.993015	.993055	.993035	.993215		.See Note 2	10, 37
176623	.VIPER™	.013077	.335031		.993104	.993144				.106	7, 8, 36, 38
176624	.VIPER™	.013078	.335032		.993105	.993145				.106	7, 8, 36, 38
176625	.VIPER™	.013079	.335033		.993106	.993146				.106	7, 8, 36, 38
176626	.Swept-Blade™	.013066	.345032		.993003	.993043	.993023	.993203		.See Note 2	10, 37
176627	.Swept-Blade™	.013068	.345033		.993004	.993044	.993024	.993204		.See Note 2	10, 37
176628	.Swept-Blade™	.013070	.345034		.993005	.993045	.993025	.993205		.See Note 2	10, 37
176629	.Swept-Blade™(LH)	.013067	.345062		.993013	.993053	.993033	.993213		.See Note 2	10, 37
176630	.Swept-Blade™(LH)	.013069	.345063		.993014	.993054	.993034	.993214		.See Note 2	10, 37
176902	.Swept-Blade™(LH)	.013071	.345064		.993015	.993055	.993035	.993215		.See Note 2	10, 37
176969	.SST®	.013068			.993004	.993044	.993024	.993204		.See Note 2	10, 37
176970	.SST®	.013068			.993004	.993044	.993024	.993204		.See Note 2	10, 37
176971	.SST®	.013070			.993005	.993045	.993025	.993205		.See Note 2	10, 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		
EVINRUDE, JOHNSON, OMC (Continued)											
174973	.SST® (LH)	.013067			.993013	.993053	.993033	.993213		.See Note 2	10, 37
176999	.Renegade O.S.(RH)	.013072			.993006	.993046	.993026	.993206		.See Note 2	10, 37
177000	.Renegade O.S.(LH)	.013073			.993016	.993056	.993036	.993216		.See Note 2	10, 37
177034	.SST®	.013028	.013076		.993103	.993143				.106	7, 8, 36, 38
177035	.SST®	.013030	.013077		.993104	.993144				.106	7, 8, 36, 38
177036	.SST®	.013033	.013078	.335032	.993105	.993145				.106	7, 8, 36, 38
177042	.VIPER™	.013076	.335030		.993103	.993143				.106	7, 8, 36, 38
177131		.011024	.013077	.335031	.992104	.993104	.993144			.106	7, 8, 36, 38
177134					.992003	.993003	.993043	.993023	.993203	.See Note 2	10, 37
177135					.992004	.993004	.993044	.993024	.993204	.See Note 2	10, 37
177136					.992005	.993005	.993045	.993025	.993205	.See Note 2	10, 37
177137					.992006	.993006	.993046	.993026	.993206	.See Note 2	10, 37
177139		.011025		.335032	.992105	.993105	.993145			.106	7, 8, 36, 38
177140		.011026		.335033	.992106	.993106	.993146			.106	7, 8, 36, 38
177151		.011002		.335030	.992103	.993103	.993143			.106	7, 8, 36, 38
177153		.012037	.013081		.992301					.111	6
177159		.012111									3
177187		.012057									4
178811	.VIPER™(LH)	.013069			.993014	.993054	.993034	.993214		.See Note 2	10, 37
178814	.VIPER™	.013068			.993004	.993044	.993024	.993204		.See Note 2	10, 37
203120		.012001									2
203682		.012001									2
203919		.012001									2
204347		.012001									2
277212		.012076									3
277440		.012060									2
277443		.012076									3
277580		.012024									5
277581		.012024									5
277583		.012076									3
277595		.012006									2
277599		.012011									3
277617		.012028									5
277759		.012008									3
278194		.012026									5
375605		.012109									3
376072		.012060									2
376506		.012076									3
376732		.012024									5
376735		.012109									3
376737		.012076									3
376738		.012027									5, 37
376777		.012060									2
376805		.012011									3
376841		.012109									3
376917		.012028									5
376968		.012060									2
377410		.012023									5
377632		.012060									2
377635		.012007									3
377636		.012011									3
377978		.012044									7, 38
378039		.012045									7, 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			
EVINRUDE, JOHNSON, OMC (Continued)												
378040	.012043											7
378571	.012026											5
378579	.012025											5
378580	.012022											5
378581	.012023											5
379260	.012042											7
379717	.012109											3
380104	.012004											2
380637	.012024											5
380958	.012005											3
381185	.012091											38
381186	.012092											38
381187	.012093											38
381446	.012044											7, 38
381801	.012011											3
382017	.012090											8, 38
382676	.012089											38
382761	.012047											7, 8, 36, 38
382762	.011001											7, 8, 36, 38
382763	.011002	.013076			.992103	.993103	.993143			.106		7, 8, 36, 38
382764	.011003	.013077			.992104	.993104	.993144			.106		7, 8, 36, 38
382765	.011004	.013078			.992105	.993105	.993145			.106		7, 8, 36, 38
382766	.011005	.013079			.992106	.993106	.993146			.106		7, 8, 36, 38
382768					.992106	.993106	.993146			.106		7, 8, 36, 38
383287	.012094											38
383315	.012008											3
383629	.012011											3
384139	SST® .013030	.013077				.993104	.993144			.106		7, 8, 36, 38
384140	.011005	.013079			.992106	.993106	.993146			.106		7, 8, 36, 38
384141	SST® .013034	.013079				.993106	.993146			.106		7, 8, 36, 38
384142	SST® .013033	.013078				.993105	.993145			.106		7, 8, 36, 38
384144	SST® .013028	.013076				.993103	.993143			.106		7, 8, 36, 38
384460	.012028											5
384702	SST® .013034	.013079				.993106	.993146			.106		7, 8, 36, 38
385319	.012005											3
385940	SST® .012008											3
385955	.012023											5
386118	.012111											3
386317	.012054				.992501					.118		4
386637	.012055											4
386669	.012113											3
386786	.012038	.013082			.992302					.111		6
386841	.012039	.013083			.992303					.111		6
386907	.012036	.013080										6
386908	.012040	.013084										6
386909	.012037	.013081			.992301					.111		6
386933	.012056											4
386955	.012005											3
386980	SST® .013026	.013083										6
386981	SST® .013010	.013082										6
386982	SST® .013024	.013081										6
387158	.011016											10, 37
387159	.011006	.013064			.992002	.993002	.993042			See Note 2		10, 37

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)											
387160	.011007	.013066			.992003	.993003	.993043		.993203	See Note 2	10, 37
387161	.011008	.013068			.992004	.993004	.993044		.993204	See Note 2	10, 37
387162	.011009	.013070			.992005	.993005	.993045		.993205	See Note 2	10, 37
387163	.011010	.013072			.992006	.993006	.993046		.993206	See Note 2	10, 37
387320	.012053										4
387334	.012008										3
387519	SST® .013046	.013068				.993004	.993044		.993204	See Note 2	10, 37
387520	SST® .013048	.013070				.993005	.993045		.993205	See Note 2	10, 37
387636	.012056										4
388088	.012013										3
388294	.012102										3
388883	.012016										3
389019	SST II® .013050	.013072	.345035			.993006	.993046		.993206	See Note 2	10, 37
389029	SST® .013032	.013084									6
389068	.012021										3
389069	.012015										3
389510	SST II® .013033	.013078				.993105	.993145			106	7, 8, 36, 38
389512	SST II® .013034	.013079				.993106	.993146			106	7, 8, 36, 38
389619	.012015										3
389627	.012101										3
389788	.011005	.013079	.335033	.335034	.992106	.993106	.993146			106	7, 8, 36, 38
389855	.012023										5
389923	SST II® .013048	.013070	.345034			.993005	.993045		.993205	See Note 2	10, 37
389924	SST II® .013046	.013068	.345033			.993004	.993044		.993204	See Note 2	10, 37
389925	SST®		.345032								10, 37
389944	.013030										7, 8, 36, 38
389948	SST II® .013030	.013077	.335031			.993104	.993144			106	7, 8, 36, 38
389949	SST II® .013028	.013076	.335030			.993103	.993143			106	7, 8, 36, 38
390113	SST® .013033	.013078				.993105	.993145			106	7, 8, 36, 38
390114	SST® .013030	.013077				.993104	.993144			106	7, 8, 36, 38
390237	.012032										2
390380	.012057		.305030								4
390725	SST®		.345036								10, 37
390729	SST®		.305029								4
390730	SST®		.305030								4
390821	SST II® (LH) .013045	.013069	.345063			.993014	.993054	.993034	.993214	See Note 2	10, 37
390822	SST II® (LH) .013047	.013071	.345064			.993015	.993055	.993035	.993215	See Note 2	10, 37
390823	SST II® (LH)	.013073	.345065			.993016	.993056	.993036	.993216	See Note 2	10, 37
390830	.012031										2
390833	.012024										5
390849	SST® .013024	.013081									6
390850	SST® .013010	.013082	.325030								6
390851	SST® .013026	.013083	.325031								6
390852	SST® .013032	.013084									6
390896	.011004	.013078	.335032		.992105	.993105	.993145			106	7, 8, 36, 38
391096	.012031										2
391198	.011002	.013076	.335030		.992103	.993103	.993143			106	7, 8, 36, 38
391199	.011003	.013077	.335031		.992104	.993104	.993144			106	7, 8, 36, 38
391200	.011007	.013066	.345032		.992003	.993003	.993043	.993023	.993203	See Note 2	10, 37
391201	.011008	.013068	.345033		.992004	.993004	.993044	.993024	.993204	See Note 2	10, 37
391202	.011009	.013070	.345034	.345041	.992005	.993005	.993045	.993025	.993205	See Note 2	10, 37
391203	.011010	.013072	.345035	.345037	.992006	.993006	.993046	.993026	.993206	See Note 2	10, 37
391290	SST II® .013044	.013066	.345032			.993003	.993043	.993023	.993203	See Note 2	10, 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			
EVINRUDE, JOHNSON, OMC (Continued)												
391534	.012101											3
391535	.011006	.013064	.345031		.992002	.993002	.993042	.993022		See Note 2		10, 37
391536	.011016											10, 37
391668	.011001											7, 8, 36, 38
393160	Aluminum .011025	.013078			.992105	.993105	.993145			.106		7, 8, 36, 38
394752	Raker®	.013066	.345032			.993003	.993043		.993203	See Note 2		10, 37
394753	Raker®	.013068	.345033			.993004	.993044		.993204	See Note 2		10, 37
394754	Raker®	.013070	.345034	.345041		.993005	.993045		.993205	See Note 2		10, 37
394755	Raker®	.013072	.345035	.345037		.993006	.993046		.993206	See Note 2		10, 37
394756	Raker®	.013074	.345036	.345038		.993007	.993047		.993207	See Note 2		10, 37
394758	Raker®	.013077	.335031			.993104	.993144		.106			7, 8, 36, 38
394759	Raker®	.013078	.335032			.993105	.993145		.106			7, 8, 36, 38
394760	Raker®	.013034	.013079	.335033	.335034		.993106	.993146		.106		7, 8, 36, 38
394761	Raker®			.335035								8
398126	.012112											3
398502	Raker® (LH)	.013069	.345063			.993014	.993054		.993214	See Note 2		10, 37
398503	Raker® (LH)	.013071	.345064			.993015	.993055		.993215	See Note 2		10, 37
398504	Raker® (LH)	.013073				.993016	.993056		.993216	See Note 2		10, 37
398505	Raker® (LH)	.013075				.993017				See Note 2		10, 37
431717	SHOOTER®	.013036		.435035								10, 37
431718	SHOOTER®	.013038		.435036								10, 37
431930	SST II® (LH)	.013043	.013067	.345062		.993013	.993053		.993213	See Note 2		10, 37
591389	.012060											2
591920	.012024											5
591925	.012076											3
591978	.012060											2
592038	.012076											3
592063	.012060											2
592959	.012076											3
763300	.012074											7, 8, 36, 38
763301	.012047											7, 8, 36, 38
763302	.011001											7, 8, 36, 38
763304	.163002		.346031		.992002		.993042	.993022		.105		40
763305							.993052	.993032		.105		40
763306	.161002		.346032		.992003		.993043	.993023		.105		40
763307			.346062				.993053	.993023		.105		40
763308	.161003		.346033		.992004		.993044	.993024		.105		40
763309							.993054	.993034		.105		40
763310	.161004		.346034		.992005		.993045	.993025		.105		40
763311			.346064				.993055	.993035		.105		40
763315	.161001		.346031		.992002		.993042	.993022		.105		40
763316	.161002		.346032		.992003		.993043	.993023		.105		40
763317	.161003		.346033		.992004		.993044	.993024		.105		40
763318	.161004		.346034		.992005		.993045	.993025		.105		40
763319	.161005		.346035		.992006		.993046	.993026		.105		40
763453	.011016											10, 37
763456	.012112											3
763463	.011003		.335031		.992104		.993144		.106			7, 8, 36, 38
763464	.011004		.335032		.992105		.993145		.106			7, 8, 36, 38
763465	.011005		.335033		.992106		.993146		.106			7, 8, 36, 38
763466	.011002		.335030		.992103		.993143		.106			7, 8, 36, 38
763467	.011007		.345032		.992003		.993043	.993023		See Note 2		10, 37
763468	.011008		.345032		.992004		.993044	.993024		See Note 2		10, 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		
EVINRUDE, JOHNSON, OMC (Continued)											
763469	.011009		.345033		.992005		.993045	.993025		See Note 2	10, 37
763470	.011010		.345034		.992006		.993046	.993026		See Note 2	10, 37
763471	.011006		.345031		.992002		.993042	.993022		See Note 2	10, 37
763486	.012057		.305030								4
763583	.012011										3
763584	.012016										3
763585	.012021										3
763586	.012101										3
763587	.012109										3
763588	.012005										3
763589	.012015										3
763590	.012030										3
775713	.012037				.992301					.111	6
776891	.011001										7, 8, 36, 38
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	9
777025	.101034		.335932		.992105		.993145			See Note 4	9
777026	.101035		.335933		.992106		.993146			See Note 4	9
777029							.993154			See Note 4	9
777030							.993155			See Note 4	9
777031							.993156			See Note 4	9
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	.062012			.992503					.121	4
778704	4-Stroke	.062013			.992504					.121	4
778705	4-Stroke	.062014	.305029		.992505					.121	4
778706	4-Stroke				.992506					.121	4
778772		.012111									3
778774		.012038	.013082	.325030	.992302					.111	6
778796		.012031									2
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	9
5033323	4-Stroke	.101033	.335931		.992104		.993144			See Note 4	9
5033324	4-Stroke	.101034	.335932		.992105		.993145			See Note 4	9
5033325	4-Stroke	.101035	.335933		.992106		.993146			See Note 4	9
FORCE, CHRYSLER, U.S. MARINE											
48-16986A45	Vengeance	.033016	.033084	.335130		.993103	.993143			See Note 3	14
48-16986A5	QSS™	.033016	.033084	.335130		.993103	.993143			See Note 3	14
48-16988A40	QSS™	.033017	.033085	.335131		.993104	.993144			See Note 3	14
48-16988A45	Vengeance	.033017	.033085	.335131		.993104	.993144			See Note 3	14
48-16990A40	Laser II™	.033018	.033086	.335132		.993105	.993145			See Note 3	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			
FORCE, CHRYSLER, U.S. MARINE (Continued)												
48-16990A45Laser II™	.033018	.033086	.335132		.993105	.993145					See Note 3	14
48-16992A40Laser II™	.033019	.033087	.335133	.335134	.993106	.993146					See Note 3	14
48-16992A45Laser II™	.033019	.033087	.335133	.335134	.993106	.993146					See Note 3	14
48-19636A10 . . . . .					.992501						.120	11
48-19638A40Black Max™	.031049				.992503						.120	11
48-19639A40 . . . . .					.992504						.120	11
48-19640A40Black Max™	.031048		.305129		.992505						.120	11
48-19642A40Black Max™	.031047		.305130		.992506						.120	11
48-42738A10Black Max™	.032141				.992401						.114	12
48-42740A10Black Max™	.032142											12
48-64724A1 . . . . .	.031020											12
48-64724A4 . . . . .	.031020											12
48-73132A4 . . . . .	.031015	.033088			.992403						.114	12
48-73132A40Black Max™	.031015	.033088			.992403						.114	12
48-73134A4 . . . . .	.031016	.033089			.992405	.993405					.114	12
48-73134A40Black Max™	.031016	.033089			.992405	.993405					.114	12
48-73136A4 . . . . .	.031017	.033090	.395129		.992406	.993406					.114	12
48-73136A40Black Max™	.031017	.033090	.395129		.992406	.993406					.114	12
48-73138A4 . . . . .	.031018	.033091			.992407	.993407					.114	12
48-73138A40Black Max™	.031018	.033091			.992407	.993407					.114	12
48-73140A4 . . . . .	.031019	.033092	.395130		.992408	.993408					.114	12
48-73140A40Black Max™	.031019	.033092	.395130		.992408	.993408					.114	12
48-73142A40 . . . . .					.992409						.114	12
48-73144A4 . . . . .	.031020											12
48-73144A40Black Max™	.031020											12
48-76228A4QSS™	.033090	.395129				.993406					.114	12
48-76228A5Vengeance	.033090	.395129				.993406					.114	12
48-76230A4QSS™	.033028	.033091				.993407					.114	12
48-76230A5Vengeance	.033028	.033091				.993407					.114	12
48-76232A4QSS™	.033092	.395130				.993408					.114	12
48-76232A5Vengeance	.033092	.395130				.993408					.114	12
48-77338A40 . . . . .	.031054											14
48-77338A45Black Max™	.031054											14
48-77340A40 . . . . .	.031055											14
48-77340A45Black Max™	.031055											14
48-77342A40 . . . . .	.031041	.033084	.335130		.992103	.993103	.993143				See Note 3	14
48-77342A45Black Max™	.031041	.033084	.335130		.992103	.993103	.993143				See Note 3	14
48-77344A40 . . . . .	.031042	.033085	.335131		.992104	.993104	.993144				See Note 3	14
48-77344A45Black Max™	.031042	.033085	.335131		.992104	.993104	.993144				See Note 3	14
48-77346A40 . . . . .	.031043	.033086	.335132		.992105	.993105	.993145				See Note 3	14
48-77346A45Black Max™	.031043	.033086	.335132		.992105	.993105	.993145				See Note 3	14
48-77348A40 . . . . .	.031044	.033087	.335133	.335134	.992106	.993106	.993146				See Note 3	14
48-77348A45Black Max™	.031044	.033087	.335133	.335134	.992106	.993106	.993146				See Note 3	14
48-77350A40 . . . . .	.031045											14
48-77350A45Black Max™	.031045											14
48-77350A45Black Max™	.031045											14
48-79792A4QSS™	.033001	.033089			.992405	.993405					.114	12
48-79792A5Vengeance	.033001	.033089			.992405	.993405					.114	12
48-816702A40 . . . . .	.031056	.033089			.992405	.993405					.114	12
48-816704A40 . . . . .	.031057	.033090	.395129		.992406	.993406					.114	12
48-816706A40 . . . . .	.031058	.033091			.992407	.993407					.114	12
48-819334A40 . . . . .	.072133											12
48-819335A40 . . . . .	.072132											12

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		
FORCE, CHRYSLER, U.S. MARINE (Continued)											
48-819336A40	.072131										12
48-819337A40	.072014										11, 12
48-819337A45	.072014										11, 12
48-855858A5	.Vengeance .031057	.033090			.992406			.993406		.114	12
48-85632A40	.Black Max™ .031053				.992404					.114	12
48-FP19	.072017										11
48-FP372	.072033										13
48-FP488	.Black Max™ .072123										11
48-FP6430	.Black Max™ .072026										11
48-FP669-1	.071035										13
48-FP669-2	.071035										13
48-FP669-3	.071035										13
48-FP685-1	.071036										13
48-FP685-2	.071036										13
48-FP685-3	.071036										13
48-FP686-1	.071037										13
48-FP686-3	.071037										13
48-FP686-4	.071037										13
48-FP692-1	.072127										13
48-FP692-2	.072127										13
48-FP692-3	.072127										13
48-FP694	.071038										13
48-FP70	.Black Max™ .072024										11
FA282265	.072132										12
FA287265	.072131										12
FA378265	.072132										12
FP273	.072133										12
FP274	.072014										11, 12
FP276	.072014										11, 12
FP277	.072131										12
FP278	.072014										11, 12
FP282	.072132										12
FP286	.072026										11
FP287	.072131										12
FP293	.072132										12
FP319	.072121										11
FP327	.072121										11
FP328	.072014										11, 12
FP330	.072026										11
FP366	.072014										11, 12
FP372	.072033										13
FP378	.072132										12
FP383	.072034										Obsolete
FP389	.072032										13
FP395	.Black Max™ .072121										11
FP408	.072026										11
FP472	.Black Max™ .072122										11
FP501	.072054										13
FP509	.073008										13
FP510	.073004										Obsolete
FP511	.073010										13
FP519	.072055										13
FP523	.072107										13

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			
FORCE, CHRYSLER, U.S. MARINE (Continued)												
FP524	.072108											13
FP526	.072109											13
FP539	.073003											13
FP540	.073004											Obsolete
FP623	.072107											13
FP654	.072108											13
FP664	.073007											13
FP665	.071035											13
FP668	.073008											13
FP669	.071035											13
FP669-1	.071035											13
FP682	.072127											13
FP685	.072128											13
FP685-1	.072128											13
FP686	.072129											13
FP686-1	.071037											13
FP686-2	.072129											13
FP692	.072127											13
FP692-1	.072127											13
FP694	.071038											13
FP696	.073010											13
FP699	.073007											13
FPM736	.031020											12
FPM738	.031019	.033092			.992408			.993408			.114	12
FPM752	.QSS™ .033028	.033091			.992407			.993407			.114	12
FPM754	.QSS™ .033001	.033089			.992405			.993405			.114	Obsolete
FPM756	.031015	.033088										12
FPS501	.072054											13
FPS509	.073008											13
FPS510	.073004											Obsolete
FPS511	.073010											13
FPS519	.072055											13
FPS523	.072107											13
FPS524	.072108											13
FPS526	.072109											13
FPS623	.072107											13
FPS625	.072108											13
FPS626	.072109											13
FPS654	.072108											13
FPS686	.072129											13
FS501265	.072054											13
HONDA												
08M60-ZW7-A00		.033084	.335130			.993103	.993143					See Note 3
16												
08M60-ZW7-A10	.031042	.033085	.335131		.992104	.993104	.993144				See Note 3	16
08M60-ZW7-A20	.031043	.033086	.335132		.992105	.993105	.993145				See Note 3	16
08M60-ZW7-A30	.031044	.033087	.335133		.992106	.993106	.993146				See Note 3	16
08M60-ZW7-B00	(LH)						.993153				See Note 3	16
08M60-ZW7-B10	(LH)						.993154				See Note 3	16
08M60-ZW7-B20	(LH)						.993155				See Note 3	16
08M60-ZW7-B30	(LH)						.993156				See Note 3	16
58110-ZV4-300	.102005											15

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			
HONDA (Continued)												
58110-ZV4-DT15	.112004											15
58110-ZV5-E00		.033097	.395930				.993408			.113		16
58110-ZV5-E10		.033096					.993407			.113		16
58110-ZV5-E20		.033095	.395929				.993406			.113		16
58110-ZV5-E30		.033094					.993405			.113		16
58130-881-840ZA	.012109											15
58130-881-840ZB	.012109											15
58130-935-000N	.012109											15
58130-935-600N	.012109											15
58130-ZV4-000ZA	.102005											15
58130-ZV4-008AH	.102003											15
58130-ZV4-009AH	.102004											15
58130-ZV4-010ZA	.102005											15
58130-ZV4-020ZA	.102005											15
58130-ZV4-030ZA	.102005											15
58130-ZV4-030ZB	.102005											15
58130-ZV4-700ZA	.102004											15
58130-ZV4-701ZA	.102004											15
58130-ZV4-702ZA	.102004											15
58130-ZV4-703ZA	.102004											15
58130-ZV4-703ZB	.102004											15
58130-ZV5-000ZA	.032042	.033095	.395929		.992406		.993406			.113		16
58130-ZV5-011AH					.992404		.993404			.113		16
58130-ZV5-012AH					.992405		.993405			.113		16
58130-ZV5-013AH					.992406		.993406			.113		16
58130-ZV5-014AH					.992407		.993407			.113		16
58130-ZV5-015AH					.992408		.993408			.113		16
58130-ZV5-850ZA	.032043	.033094			.992405		.993405			.113		16
58130-ZV5-860ZA	.032045	.033093										16
58130-ZV5-870ZA	.032040	.033097	.395930		.992408		.993408			.113		16
58130-ZV7-009AH					.992501					.119		15
58130-ZV7-010AH					.992502					.119		15
58130-ZV7-011AH					.992503					.119		15
58130-ZV7-012AH					.992504					.119		15
58130-ZW1-011AH	.031054											16
58130-ZW1-013AH	.031055											16
58130-ZW1-015AH	.031041		.335130		.992103	.993103	.993143				See Note 3	16
58130-ZW1-017AH	.031042		.335131		.992104	.993104	.993144				See Note 3	16
58130-ZW1-019AH	.031043		.335132		.992105	.993105	.993145				See Note 3	16
58130-ZW1-021AH	.031044		.335133	.335134	.992106	.993106	.993146				See Note 3	16
58130-ZW1-V01	.033017	.033085	.335131			.993104	.993144				See Note 3	16
58130-ZW1-V11	.033018	.033086	.335132			.993105	.993145				See Note 3	16
58130-ZW1-V31	.033019	.033087	.335133	.335134		.993106	.993146				See Note 3	16
58130-ZW1-W01ZA	.031054											16
58130-ZW1-W11ZA	.031055											16
58130-ZW1-W21ZA	.031041	.033084	.335130		.992103	.993103	.993143				See Note 3	16
58130-ZW1-W31ZA	.031042	.033085	.335131		.992104	.993104	.993144				See Note 3	16
58130-ZW1-W41ZA	.031044	.033087	.335133	.335134	.992106	.993106	.993146				See Note 3	16
58130-ZW1-W51ZA	.031045											16
58130-ZW1-W61ZA	.031043	.033086	.335132		.992105	.993105	.993145				See Note 3	16
58130-ZW1-W91	.033016	.033084	.335130			.993103	.993143				See Note 3	16
58130-ZY3-013A	.031022											17
58130-ZY3-015A	.031023		.345131		.992002	.993002	.993042	.993022		.107		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		
HONDA (Continued)											
58130-ZY3-017A	.031024		.345132		.992003	.993003	.993043	.993023	.993203		17
58130-ZY3-019A	.031025		.345133		.992004	.993004	.993044	.993024	.993204		17
58130-ZY3-021A	.031026		.345134		.992005	.993005	.993045	.993025	.993205		17
58130-ZY3-023A	.031027		.345135		.992006	.993006	.993046	.993026	.993206		17
58133-ZV5-010AH	.033093										16
58133-ZV5-012AH	.033094						.993405			.113	16
58133-ZV5-013AH	.033095	.395929					.993406			.113	16
58133-ZV5-014AH	.033096						.993407			.113	16
58133-ZV5-015AH	.033097	.395930					.993408			.113	16
58133-ZV7-013AH			.305229								15
58133-ZW1-A15AH	.033084	.335130				.993103	.993143			See Note 3	16
58133-ZW1-A17AH	.033085	.335131				.993104	.993144			See Note 3	16
58133-ZW1-A19AH	.033086	.335132				.993105	.993145			See Note 3	16
58133-ZY3-A15AH		.345131				.993002	.993042	.993022		.107	17
58133-ZY3-A17AH		.345132				.993003	.993043	.993023	.993203	.107	17
58133-ZY3-A19AH		.345133				.993004	.993044	.993024	.993204	.107	17
58133-ZY3-A21AH		.345134				.993005	.993045	.993025	.993205	.107	17
58133-ZY3-A25AH		.345136				.993007				.107	17
58133-ZY3-B15AH	(LH)					.993012	.993052	.993032		.107	17
58133-ZY3-B17AH	(LH)		.345162			.993013	.993053	.993033	.993213	.107	17
58133-ZY3-B19AH	(LH)		.345163			.993014	.993054	.993034	.993214	.107	17
58133-ZY3-B21AH	(LH)					.993015	.993055	.993035	.993215	.107	17
58134-ZV5-009AH					.992402					.113	16
58134-ZV5-010AH					.992403					.113	16
58134-ZY3-A18HR								.993204		.107	17
58134-ZY3-A21HR								.993205		.107	17
58134-ZY3-B18HR								.993214		.107	17
58134-ZY3-B21HR								.993215		.107	17
58233-ZY3-A15H	.031023		.345131		.992002	.993002	.993042	.993022		.107	17
58233-ZY3-A17H	.031024		.345132		.992003	.993003	.993043	.993023	.993203	.107	17
58233-ZY3-A19H	.031025		.345133		.992004	.993004	.993044	.993024	.993204	.107	17
58233-ZY3-A21H	.031026		.345134		.992005	.993005	.993045	.993025	.993205	.107	17
58233-ZY3-A23H	.031027		.345135		.992006	.993006	.993046	.993026	.993206	.107	17
58233-ZY3-A25H	.031067		.345136			.993007				.107	17
58233-ZY3-B15H						.993012	.993052	.993032		.107	17
58233-ZY3-B17H			.345162			.993013	.993053	.993033	.993213	.107	17
58233-ZY3-B19H			.345163			.993014	.993054	.993034	.993214	.107	17
58233-ZY3-B21H			.345164			.993015	.993055	.993035	.993215	.107	17
MERCURY, MARINER, MERCUISER											
48-13701A46			.345163			.993014	.993054	.993034	.993214	.102	22, 34
48-13703A46			.345164			.993015	.993055	.993035	.993215	.102	22, 34
48-13705A46			.345165			.993016	.993056	.993036	.993216	.102	22, 34
48-18278A46			.345132				.993043	.993023		.102	22, 34
48-19841A46							.993052	.993032		.102	22, 34
48-11070A40	.Laser™	.033078	.345134	.345141		.993005	.993045	.993025	.993205	.102	22, 34
48-11074A40	.Laser™	.033080	.345135	.345137		.993006	.993046	.993026	.993206	.102	22, 34
48-11320A40		.031050	.033072		.992002	.993002	.993042	.993022		.102	22, 34
48-11322A40		.031051	.033074		.992003	.993003	.993043	.993023	.993203	.102	22, 34
48-11324A40		.031052	.033076	.345133	.992004	.993004	.993044	.993024	.993204	.102	22, 34
48-11324A45	.Black Max™	.031052	.033076	.345133	.992004	.993004	.993044	.993024	.993204	.102	22, 34
48-13242A5	.Mirage®	.033052									35
48-13242A50	.Mirage®	.033052									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			
MERCURY, MARINER, MERCUISER (Continued)												
48-13243A5Mirage®(LH) . . .033053												35
48-13243A50Mirage®(LH) . . .033053												35
48-13244A5Mirage® . .033054												35
48-13244A50Mirage® . .033054												35
48-13245A5Mirage®(LH) . . .033055												35
48-13245A50Mirage®(LH) . . .033055												35
48-13247A5Mirage®(LH) . . .033057												35
48-13247A50Mirage®(LH) . . .033057												35
48-13248A5Mirage® . .033058												35
48-13248A50Mirage® . .033058												35
48-13701A40Mirage®(LH) . . .033029345163												22, 34
48-13701A41Mirage®(LH) . . .033029345163												22, 34
48-13701A45Mirage®Plus(LH) . . .033029345163												22, 34
48-13702A40Mirage® . .033032345134												22, 34
48-13702A41Mirage® . .033032345134												22, 34
48-13702A45Mirage®Plus . .033032345134												22, 34
48-13702A46Mirage®Plus . .033032345134												22, 34
48-13702A55Mirage®Plus . .033054345134												35
48-13703A40Mirage®(LH) . . .033031345164												22, 34
48-13703A41Mirage®(LH) . . .033031345164												22, 34
48-13703A45Mirage®Plus(LH) . . .033031345164												22, 34
48-13703A55Mirage®Plus(LH) . . .033053345164												35
48-13704A40Mirage® . .033034345135												22, 34
48-13704A41Mirage® . .033034345135												22, 34
48-13704A45Mirage®Plus . .033034345135												22, 34
48-13704A46Mirage®Plus . .033034345135												22, 34
48-13705A40Mirage®(LH) . . .033033345165												22, 34
48-13705A41Mirage®(LH) . . .033033345165												22, 34
48-13705A45Mirage®Plus(LH) . . .033033345165												22, 34
48-13705A55Mirage®Plus(LH) . . .033033345165												22, 34
48-13706A40Mirage® . .033036345136												22, 34
48-13706A41Mirage® . .033036345136												22, 34
48-13706A45Mirage®Plus . .033036345136												22, 34
48-13706A46Mirage®Plus . .033036345136												22, 34
48-13707A41Mirage®(LH) . . .033035												22, 34
48-13707A45Mirage®Plus(LH) . . .033035												22, 34
48-13707A55Mirage®Plus(LH) . . .033057												35
48-137706A55Mirage®Plus . .033058												35
48-16312A4QSS™ . .033002 . .033072 . .345131993002 . .993042 . .993022102												22, 34
48-16312A45Vengeance . .033002 . .033072 . .345131993002 . .993042 . .993022102												22, 34
48-16312A46Vengeance . .033002 . .033072 . .345131993002 . .993042 . .993022102												22, 34
48-16312A5QSS™ . .033002 . .033072 . .345131993002 . .993042 . .993022102												22, 34
48-16314A4QSS™ . .033003 . .033074 . .345132993003 . .993043 . .993023 . .993203102												22, 34
48-16314A45Vengeance . .033003 . .033074 . .345132993003 . .993043 . .993023 . .993203102												22, 34
48-16314A46Vengeance . .033003 . .033074 . .345132993003 . .993043 . .993023 . .993203102												22, 34
48-16314A5QSS™ . .033003 . .033074 . .345132993003 . .993043 . .993023 . .993203102												22, 34
48-16315A4QSS™ (LH)033075 . .345162993013 . .993053 . .993033 . .993213102												22, 34
48-16315A45Vengeance(LH)033075 . .345162993013 . .993053 . .993033 . .993213102												22, 34
48-16315A5QSS™ (LH)033075 . .345162993013 . .993053 . .993033 . .993213102												22, 34
48-16316A4QSS™ . .033004 . .033076 . .345133993004 . .993044 . .993024 . .993204102												22, 34
48-16316A45Vengeance . .033004 . .033076 . .345133993004 . .993044 . .993024 . .993204102												22, 34
48-16316A46Vengeance . .033004 . .033076 . .345133993004 . .993044 . .993024 . .993204102												22, 34
48-16316A5QSS™ . .033004 . .033076 . .345133993004 . .993044 . .993024 . .993204102												22, 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		
MERCURY, MARINER, MERCUISER (Continued)											
48-16550A45 Laser II™	.033082	.345136			.993007					.102	22, 34
48-16986A45 Vengeance	.033016	.033084			.993103	.993143				.See Note 3	21
48-16986A5 QSS™	.033016	.033084			.993103	.993143				.See Note 3	21
48-16988A45 Vengeance	.033017	.033085			.993104	.993144				.See Note 3	21
48-16988A5 QSS™	.033017	.033085			.993104	.993144				.See Note 3	21
48-16990A40 Laser II™	.033018	.033086	.335132		.993105	.993145				.See Note 3	21
48-16990A45 Laser II™	.033018	.033086	.335132		.993105	.993145				.See Note 3	21
48-16992A40 Laser II™	.033019	.033087	.335133		.993106	.993146				.See Note 3	21
48-16992A45 Laser II™	.033019	.033087	.335133		.993106	.993146				.See Note 3	21
48-17874A12 . . . . .	.032050										18
48-19638A40 Black Max™	.031049				.992503					.120	18
48-19640A40 Black Max™	.031048	.305129			.992505					.120	18
48-19642A40 Black Max™	.031047	.305130			.992506					.120	18
48-22575A2 . . . . .	.032077										19
48-30388A1 . . . . .	.031042										21
48-30390A1 . . . . .	.031041										21
48-30396A1 . . . . .	.031054										21
48-30396A3 . . . . .	.031054										21
48-30396A4 . . . . .	.031054										21
48-31072A4 . . . . .	.031041										21
48-31080A1 . . . . .	.031042										21
48-31082A1 . . . . .	.031041										21
48-31454A3 . . . . .	.031043										21
48-31456A3 . . . . .	.031042										21
48-31458A3 . . . . .	.031041										21
48-32180A1 . . . . .	.032087										19, 35
48-32180A4 . . . . .	.032087										19, 35
48-32182A1 . . . . .	.032087										19, 35
48-32182A4 . . . . .	.032087										19, 35
48-32184A1 . . . . .	.032086										19, 35
48-32184A4 . . . . .	.032086										19, 35
48-32186A1 . . . . .	.032086										19, 35
48-32188A1 . . . . .	.032085										19, 35
48-32188A4 . . . . .	.032085										19, 35
48-32190A1 . . . . .	.032085										19, 35
48-32192A1 . . . . .	.032084										19, 35
48-32192A4 . . . . .	.032084										19, 35
48-32264A3 . . . . .	.031041										21
48-32386A3 . . . . .	.031043										21
48-32386A4 . . . . .	.031045										21
48-32388A3 . . . . .	.031042										21
48-32390A3 . . . . .	.031055										21
48-32392A3 . . . . .	.031054										21
48-32392A4 . . . . .	.031055										21
48-32746A3 . . . . .	.031043										21
48-32748A3 . . . . .	.031042										21
48-32750A3 . . . . .	.031042										21
48-33480A1 . . . . .	.032135										18
48-33482A1 . . . . .	.032136										18
48-33772A1032084										19, 35
48-33772A4032084										19, 35
48-33774A1032084										19, 35
48-33774A4032084										19, 35

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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)												
48-35936A3 .....	.031054											21
48-35936A4 .....	.032039											20
48-36008A1 .....	.031027 .....	.033080 .....			.992006 .....	.993006 .....	.993042				102	22, 34
48-36010A1 .....	.031026 .....	.033078 .....			.992005 .....	.993005 .....	.993045 .....	.993205			102	22, 34
48-36010A4 .....	.031027 .....	.033080 .....			.992006 .....	.993006 .....	.993046 .....	.993206			102	22, 34
48-36012A1 .....	.031052 .....	.033076 .....			.992004 .....	.993004 .....	.993044 .....	.993204			102	22, 34
48-36012A4 .....	.031026 .....	.033078 .....			.992005 .....	.993005 .....	.993045 .....	.993205			102	22, 34
48-36012A5 .....	.031051 .....	.033074 .....			.992002 .....	.993003 .....	.993043 .....	.993203			102	22, 34
48-36014A1 .....	.031051 .....	.033074 .....			.992002 .....	.993003 .....	.993043 .....	.993203			102	22, 34
48-36014A4 .....	.031052 .....	.033076 .....			.992004 .....	.993004 .....	.993044 .....	.993204			102	22, 34
48-36016A4 .....	.031051 .....	.033074 .....			.992002 .....	.993003 .....	.993043 .....	.993203			102	22, 34
48-36018A1 .....	.031022											22, 34
48-36020A1 .....	.031022											22, 34
48-36020A4 .....	.031022											22, 34
48-36022A1 .....	.031021											22, 34
48-36022A4 .....	.031021											22, 34
48-37902A4 .....	.031042											21
48-38090A1 .....	.032087											19, 35
48-38094A1 .....	.032086											19, 35
48-38094A4 .....	.032087											19, 35
48-38098A1 .....	.032085											19, 35
48-38098A4 .....	.032086											19, 35
48-42518A10 .....	.032060											18
48-42518A11 .....	.032060											18
48-42520A10 .....	.032058											18
48-42520A11 .....	.032058											18
48-42520A12 .....	.032058											18
48-42522A10 .....	.032052											18
48-42522A11 .....	.032052											18
48-42522A12 .....	.032052											18
48-42738A10 .....	.Black Max™ .032141											20
48-42740A10 .....	.Black Max™ .032142											20
48-43584A40 .....	.031049 .....				.992503						120	18
48-43586A40 .....	.031048 .....	.305129 .....			.992505						120	18
48-43590A40 .....	.031047 .....	.305130 .....			.992506						120	18
48-47670A1 .....	.032020											18
48-47670A10 .....	.032020											18
48-47670A3 .....	.032020											18
48-47922A1 .....	.032021											18
48-47922A10 .....	.032021											18
48-47926A1 .....	.032019											18
48-47926A10 .....	.032019											18
48-49632A3 .....	.031042											21
48-49632A4 .....	.031043											21
48-49634A1 .....	.031052 .....	.033076 .....			.992004 .....	.993004 .....	.993044 .....	.993204			102	22, 34
48-49634A4 .....	.031052 .....	.033076 .....			.992004 .....	.993004 .....	.993044 .....	.993204			102	22, 34
48-52008A3 .....	.031045											21
48-52008A4 .....	.031045											21
48-52012A3 .....	.031045											21
48-53892A3 .....	.031043											21
48-53896A3 .....	.031042											21
48-53896A4 .....	.031043 .....	.033086 .....			.992105 .....	.993105 .....	.993145				See Note 3	21
48-53900A3 .....	.031041											21

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		
MERCURY, MARINER, MERCUISER (Continued)											
48-54723A1	.032114										obsolete
48-54724A1	.032113										obsolete
48-54725A1	.032116										obsolete
48-54726A1	.032115										obsolete
48-54727A1	.032118										obsolete
48-54727A4	.032118										obsolete
48-56234A1	.032099										19
48-56234A4	.032099										19
48-56236A1	.032099										19
48-56236A4	.032099										19
48-56254A1	.032099										19
48-56254A4	.032099										19
48-57262A1	.032117										obsolete
48-57263A1	.032118										obsolete
48-58422A1	.031051	.033074			.992003	.993003	.993043		.993203	.102	22, 34
48-58422A4	.031052	.033076			.992004	.993004	.993044		.993204	.102	22, 34
48-58424A4	.031026	.033078			.992005	.993005	.993045		.993205	.102	22, 34
48-58426A1	.031026	.033078			.992005	.993005	.993045		.993205	.102	22, 34
48-58426A4	.031027	.033080			.992006	.993006	.993046		.993206	.102	22, 34
48-58826A3	.031054										21
48-58826A4	.031055										21
48-61812A1	.032045	.033093									20
48-61812A4	.032045	.033093									20
48-61814A1	.032044				.992404					.114	20
48-61814A4	.032044				.992404					.114	20
48-61816A1	.032043	.033094	.395929		.992405		.993405			.114	20
48-61816A4	.032043	.033094	.395929		.992405		.993405			.114	20
48-61818A1	.032042	.033095	.395929		.992406		.993406			.114	20
48-61818A4	.032042	.033095	.395929		.992406		.993406			.114	20
48-61820A1	.032041	.033096			.992407		.993407			.114	20
48-61820A4	.032041	.033096			.992407		.993407			.114	20
48-61822A1	.032040	.033097	.395930		.992408		.993408			.114	20
48-61822A4	.032040	.033097	.395930		.992408		.993408			.114	20
48-61824A1	.032039				.992409					.114	20
48-62274A1	.032045	.033093									20
48-62274A4	.032045	.033093									20
48-63303A1	.032114										obsolete
48-63304A1	.032113										obsolete
48-63305A1	.032116										obsolete
48-63306A1	.032115										obsolete
48-63456A1	.032099										19
48-63456A4	.032099										19
48-63494A1	.032014										obsolete
48-63494A10	.032014										obsolete
48-63538A1	.032039										20
48-63540A1	.032040	.033097	.395930		.992408		.993408			.114	20
48-63542A1	.032041	.033096			.992407		.993407			.114	20
48-63542A4	.032041	.033096			.992407		.993407			.114	20
48-63544A1	.032042	.033095	.395929		.992406		.993406			.114	20
48-63544A4	.032042	.033095	.395929		.992406		.993406			.114	20
48-63546A4	.032043	.033095	.395929		.992406		.993406			.114	20
48-64724A1	.031020										20
48-64724A4	.031020										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)												
48-65022A1	.031041											21
48-65024A1	.031042											21
48-65480A1	.031027	.033080			.992006	.993006	.993046		.993206	.102		22, 34
48-65588A1	.031042											21
48-65588A4	.031042											21
48-65736A1	.031045											21
48-65736A4	.031045											21
48-65748A1	.031041											21
48-65992A1	.031026	.033078			.992005	.993005	.993045		.993205	.102		22, 34
48-65992A4	.031026	.033078			.992005	.993005	.993045		.993205	.102		22, 34
48-66432A1	.031051	.033074			.992003	.993003	.993043		.993203	.102		22, 34
48-66432A4	.031052	.033076			.992004	.993004	.993044		.993204	.102		22, 34
48-66450A4	.031051	.033074			.992003	.993003	.993043		.993203	.102		22, 34
48-67280A1	.031043											21
48-67874A4	.031027	.033080			.992006	.993006	.993046		.993206	.102		22, 34
48-68556A4	Cleaver™ .033052											35
48-68557A4	Cleaver™ .033053											35
48-68558A4	Cleaver™ .033054											35
48-69260A1	.032115											obsolete
48-69262A1	.032117											obsolete
48-72764A4	QSS™ .033017	.033085				.993104	.993144				See Note 3	21
48-72764A5	QSS™ .033017	.033085				.993104	.993144				See Note 3	21
48-73132A4	.031015	.033088										20
48-73132A40	Black Max™ .031015	.033088										20
48-73134A4	.031016	.033089			.992405		.993405			.114		20
48-73134A40	Black Max™ .031016	.033089			.992405		.993405			.114		20
48-73136A4	.031017	.033090	.395129		.992406		.993406			.114		20
48-73136A40	Black Max™ .031017	.033090	.395129		.992406		.993406			.114		20
48-73138A4	.031018	.033091			.992407		.993407			.114		20
48-73138A40	Black Max™ .031018	.033091			.992407		.993407			.114		20
48-73140A4	.031019	.033092	.395130		.992408		.993408			.114		20
48-73140A40	Black Max™ .031019	.033092	.395130		.992408		.993408			.114		20
48-73142A40					.992409					.114		20
48-73144A4	.031020											20
48-73144A40	Black Max™ .031020											20
48-73500A4	.031021											22, 34
48-73502A4	.031022											22, 34
48-73504A4	.031023	.033072			.992002	.993002	.993042			.102		22, 34
48-73506A4	.031024	.033074			.992003	.993003	.993043		.993203	.102		22, 34
48-73508A4	.031025	.033076			.992004	.993004	.993044		.993204	.102		22, 34
48-73510A4	.031026	.033078			.992005	.993005	.993045		.993205	.102		22, 34
48-73512A4	.031027	.033080			.992006	.993006	.993046		.993206	.102		22, 34
48-73980A4	QSS™ .033004	.033076				.993004	.993044		.993204	.102		22, 34
48-73980A5	QSS™ .033004	.033076				.993004	.993044		.993204	.102		22, 34
48-73982A4	QSS™ .033005	.033078				.993005	.993045		.993205	.102		obsolete
48-73982A5	QSS™ .033005	.033078				.993005	.993045		.993205	.102		obsolete
48-74266A4	QSS™ .033004	.033076				.993004	.993044		.993204	.102		obsolete
48-74268A4	QSS™ .033005	.033078				.993005	.993045		.993205	.102		obsolete
48-74598A4	Cleaver™ .033052											35
48-74599A4	Cleaver™ .033053											35
48-74600A4	Cleaver™ .033054											35
48-74601A4	Cleaver™ .033055											35
48-74603A4	Mirage® .033057											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			
MERCURY, MARINER, MERCUISER (Continued)												
48-74604A4Mirage®033058												35
48-74872A4031051 .033074 . . . . .					.992003	.993003	.993043		.993203			22, 34
48-74874A4031052 .033076 . . . . .					.992004	.993004	.993044		.993204			22, 34
48-74876A4031026 .033078 . . . . .					.992005	.993005	.993045		.993205			22, 34
48-74886A4031052 .033076 . . . . .					.992004	.993004	.993044		.993204			22, 34
48-74888A4031026 .033078 . . . . .					.992005	.993005	.993045		.993205			22, 34
48-75058A4QSS™ .033006 .033080 . . . . .						.993006	.993046		.993206			22, 34
48-75160A4031027 .033080 . . . . .					.992006	.993006	.993046		.993206			22, 34
48-75724A4QSS™ .033006 .033080 . . . . .						.993006	.993046		.993206			22, 34
48-75724A5QSS™ .033006 .033080 . . . . .						.993006	.993046		.993206			22, 34
48-75760A4031023 .033072 . . . . .					.992002	.993002	.993042					22, 34
48-76230A4QSS™ .033028 .033091 . . . . .							.993407					20
48-76230A5Vengeance .033028 .033091 . . . . .							.993407					20
48-76232A4QSS™ .033092 .395130 . . . . .							.993408					20
48-76232A5Vengeance .033092 .395130 . . . . .							.993408					20
48-77338A33Black Max™ .031054												21
48-77338A4031054												21
48-77338A40031054												21
48-77338A45Black Max™ .031054												21
48-77340A4031055												21
48-77340A40031055												21
48-77340A45Black Max™ .031055												21
48-77342A4031041 .033084 .335130 . . . . .					.992103	.993103	.993143				See Note 3	21
48-77342A40031041 .033084 .335130 . . . . .					.992103	.993103	.993143				See Note 3	21
48-77342A45Black Max™ .031041335130 . . . . .					.992103	.993103	.993143				See Note 3	21
48-77344A4031042 .033085 .335131 . . . . .					.992104	.993104	.993144				See Note 3	21
48-77344A40031042 .033085 .335131 . . . . .					.992104	.993104	.993144				See Note 3	21
48-77344A45Black Max™ .031042 .033085 .335131 . . . . .					.992104	.993104	.993144				See Note 3	21
48-77346A4031043 .033086 .335132 . . . . .					.992105	.993105	.993145				See Note 3	21
48-77346A40031043 .033086 .335132 . . . . .					.992105	.993105	.993145				See Note 3	21
48-77346A45Black Max™ .031043 .033086 .335132 . . . . .					.992105	.993105	.993145				See Note 3	21
48-77348A4031044 .033087 .335133 .335134 .992106 .993106 .993146											See Note 3	21
48-77348A40031044 .033087 .335133 .335134 .992106 .993106 .993146											See Note 3	21
48-77348A45Black Max™ .031044335133 .335134 .992106 .993106 .993146											See Note 3	21
48-77350A4031045												21
48-77350A40031045												21
48-77350A45Black Max™ .031045												21
48-77896A1032113												obsolete
48-77896A10032113												obsolete
48-77897A1032114												obsolete
48-77897A10032114												obsolete
48-77898A1032115												obsolete
48-77898A10032115												obsolete
48-77899A1032116												obsolete
48-77899A10032116												obsolete
48-77900A1032117												obsolete
48-77900A10032117												obsolete
48-77901A1032118												obsolete
48-77901A10032118												obsolete
48-78112A4031021												22, 34
48-78112A40031021												22, 34
48-78112A45Black Max™ .031021												22, 34
48-78114A4031022												22, 34

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			
MERCURY, MARINER, MERCUISER (Continued)												
48-78114A40	.031022											22, 34
48-78114A45	.031022											22, 34
48-78116A4	.031023	.033072	.345131		.992002	.993002	.993042	.993022				22, 34
48-78116A40	.031023	.033072	.345131		.992002	.993002	.993042	.993022				22, 34
48-78116A45	.031023	.033072	.345131		.992002	.993002	.993042	.993022				22, 34
48-78118A4	.031024	.033074	.345132		.992003	.993003	.993043	.993023	.993203			22, 34
48-78118A40	.031024	.033074	.345132		.992003	.993003	.993043	.993023	.993203			22, 34
48-78118A45	.031024	.033074	.345132		.992003	.993003	.993043	.993023	.993203			22, 34
48-78120A4	.031025	.033076	.345133		.992004	.993004	.993044	.993024	.993204			22, 34
48-78120A40	.031025	.033076	.345133		.992004	.993004	.993044	.993024	.993204			22, 34
48-78120A45	.031025	.033076	.345133		.992004	.993004	.993044	.993024	.993204			22, 34
48-78122A4	.031026	.033078	.345134	.345141	.992005	.993005	.993045	.993025	.993205			22, 34
48-78122A40	.031026	.033078	.345134	.345141	.992005	.993005	.993045	.993025	.993205			22, 34
48-78122A45	.031026	.033078	.345134	.345141	.992005	.993005	.993045	.993025	.993205			22, 34
48-78124A4	.031027	.033080	.345135	.345137	.992006	.993006	.993046	.993026	.993206			22, 34
48-78124A40	.031027	.033080	.345135	.345137	.992006	.993006	.993046	.993026	.993206			22, 34
48-78124A45	.031027	.033080	.345135	.345137	.992006	.993006	.993046	.993026	.993206			22, 34
48-78126A4	.031067	.033082	.345136	.345138	.992007	.993007						22, 34
48-78126A40	.031067	.033082	.345136	.345138	.992007	.993007						22, 34
48-78126A45	.031067	.033082	.345136	.345138	.992007	.993007						22, 34
48-79572A4	.031051	.033074			.992003	.993003	.993043	.993023	.993203			22, 34
48-79574A4	.031037	.033076			.992004	.993004	.993044	.993024	.993204			22
48-79576A4	.031038	.033078			.992005	.993005	.993045	.993025	.993205			22
48-79578A4	.031039	.033080			.992006	.993006	.993046	.993026	.993206			22
48-79792A4	.033001	.033089					.993405					20
48-79792A5	.033001	.033089					.993405					20
48-79794A4	.033003	.033074				.993003	.993043	.993023	.993203			22, 34
48-79794A5	.033003	.033074				.993003	.993043	.993023	.993203			22, 34
48-79830A4	.033003	.033074				.993003	.993043	.993023	.993203			22, 34
48-81645M	.022002											19
48-81647M	.022001											19
48-81649M	.022002											19
48-816702A40	.031056	.033089			.992405		.993405					20
48-816704A40	.031057	.033090	.395129		.992406		.993406					20
48-816706A40	.031058	.033091			.992407		.993407					20
48-825864A47	.033034											obsolete
48-825940A47	.033040											obsolete
48-825944A47	.033042											obsolete
48-82767	.012102											19
48-82768	.012011											19
48-82770	.012010											19
48-828148A12	.032060											18
48-828150A12	.032058											18
48-828152A12	.032056											18
48-828154A12	.032054											18
48-828156A12	.032052											18
48-828158A12	.032050											18
48-82826	.022003											19
48-832828A45	.031064	.033074	.345132		.992003	.993003	.993043	.993023	.993203			22, 34
48-832830A45	.031065	.033076	.345133		.992004	.993004	.993044	.993024	.993204			22, 34
48-832832A45	.031066	.033078	.345134		.992005	.993005	.993045	.993025	.993205			22, 34
48-832834A45	.031068	.033080	.345135		.992006	.993006	.993046	.993026	.993206			22, 34
48-85632A4	.031053				.992404							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)												
48-85632A40 Black Max™	.031053				.992404						.114	20
48-86848A4 . . . . .	.031048											18
48-86962A4 . . . . .	.032136											18
48-878612A40 Trophy Sport	.031016	.033089				.993405						20
48-88438A4 QSS™	.033007	.033074			.993003	.993043		.993203			.102	22, 34
48-88440A4 QSS™	.033008	.033076			.993004	.993044		.993204			.102	22, 34
48-88442A4 QSS™	.033009	.033078			.993005	.993045		.993205			.102	22, 34
48-88444A4 QSS™	.033006	.033080			.993006	.993046		.993206			.102	22, 34
48-89852A4 . . . . .	.031049											18
48-89854A4 . . . . .	.031047											18
48-93272A4 QSS™	.033002	.033072			.993002	.993042					.102	22, 34
48-93272A5 QSS™	.033002	.033072			.993002	.993042					.102	22, 34
48-96622M . . . . .	.012010											19
48-96623M . . . . .	.012012											19
48-96625M . . . . .	.012011											19
48-96628M . . . . .	.012102											19
48-825860A47 . . . . .			.345133			.993044	.993024				.102	22, 34
48-825862A47 . . . . .			.345134			.993045	.993025				.102	22, 34
48-825866A47 . . . . .			.345136									22, 34
48-825872A47 . . . . .				.345139								22
48-825874A47 . . . . .				.345138								22
48-825938A47 . . . . .				.435135								22
48-825942A47 . . . . .				.435136								22
48-825946A47 . . . . .				.435137								22
48-855856A5 . . . . .	.033089											20
48-855858A5 . . . . .	.033090	.395129										20
48-855860A5 . . . . .	.033091											20
48-855862A5 . . . . .	.033092	.395130										20
48-90159A46 . . . . .		.345162			.993053	.993033					.102	22, 34
QA1912X . . . . .	.031064	.345132			.992003	.993003	.993043	.993023	.993203		.102	22, 34
QA1916X . . . . .	.031065	.345133			.992004	.993004	.993044	.993024	.993204		.102	22, 34
QA1918X . . . . .	.031066	.345134			.992005	.993005	.993045	.993025	.993205		.102	22, 34
QA1920X . . . . .	.031027	.345135			.992006	.993006	.993046	.993026	.993206		.102	22, 34
QA1920X . . . . .	.031068	.345135			.992006	.993006	.993046	.993026	.993206		.102	22, 34
QA2000X . . . . .	.031021											22, 34
QA2002X . . . . .	.031063											22, 34
QA2004X . . . . .	.031022											22, 34
QA2006X . . . . .	.031050	.345131										22, 34
QA2008X . . . . .	.031023	.345131			.992002	.993002	.993042	.993022			.102	22, 34
QA2010X . . . . .	.031051	.345132			.992003	.993003	.993043	.993023	.993203		.102	22, 34
QA2012X . . . . .	.031024	.345132			.992003	.993003	.993043	.993023	.993203		.102	22, 34
QA2014X . . . . .	.031052	.345133			.992004	.993004	.993044	.993024	.993204		.102	22, 34
QA2016X . . . . .	.031025	.345133			.992004	.993004	.993044	.993024	.993204		.102	22, 34
QA2018X . . . . .	.031026	.345134			.992005	.993005	.993045	.993025	.993205		.102	22, 34
QA2022X . . . . .	.031067	.345136			.993007						.102	22, 34
QA2028X . . . . .	.031043				.992105	.993105	.993145				See Note 3	21
QA2030X . . . . .	.031054											21
QA2032X . . . . .	.031055											21
QA2034X . . . . .	.031041	.335130			.992103	.993103	.993143				See Note 3	21
QA2036X . . . . .	.031042	.335131			.992104	.993104	.993144				See Note 3	21
QA2040X031044	.335133			.992106	.993106	.993146				See Note 3	21
QA2042X031045											21
QA2060R032141											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)												
QA2064R	.031015	.033088										20
QA2064R	.032044				.992404					.114		20
QA2064R	.032045	.033093										20
QA2066R	.032142											20
QA2070R	.031053				.992404					.114		20
QA2072R	.031056	.033089			.992405		.993405			.114		20
QA2074R	.031016	.033089			.992405		.993405			.114		20
QA2076R	.031057	.033090	.395129		.992406		.993406			.114		20
QA2078R	.031017	.033090	.395129		.992406		.993406			.114		20
QA2078R	.032042	.033095	.395929		.992406		.993406			.114		20
QA2078R	.032043	.033094			.992405		.993405			.114		20
QA2080R	.031058	.033091			.992407		.993407			.114		20
QA2082R	.031018	.033091			.992407		.993407			.114		20
QA2082R	.032041	.033096			.992407		.993407			.114		20
QA2084R	.031019	.033092	.395130		.992408		.993408			.114		20
QA2084R	.032040	.033097	.395930		.992408		.993408			.114		20
QA2084R	.032039				.992409		.993409			.114		20
QA2088R	.031020											20
QA2102R	.031049				.992503					.120		18
QA2106R	.031048		.305129		.992505					.120		18
QA2108R	.031047		.305130		.992506					.120		18
QA2120R	.032060											18
QA2122R	.032058											18
QA2124R	.032056											18
QA2126R	.032054											18
QA2128R	.032052											18
QA2130R	.032050											18
QA2226R	.032044				.992404		.993405			.114		20
QA2230R	Black Diamond .032042	.033095	.395929		.992406		.993406			.114		20
QA2232R	.032041	.033096			.992407		.993407			.114		20
QA2234R	.032040	.033097	.935930		.992408		.993408			.114		20
QA3150R	Black Diamond .012011											19
QA3808R	.022002											19
QA3812R	.022003											19
QA6000	QA3 .031021											22, 34
QA6004	QA3 .031022											22, 34
QA6010	QA3 .031051											22, 34
QA6012	QA3 .031024	.033074			.992003	.993003	.993043		.993203	.102		22, 34
QA6016	QA3 .031025	.033076			.992004	.993004	.993044		.993204	.102		22, 34
QA6018	QA3 .031026	.033078			.992005	.993005	.993045		.993205	.102		22, 34
QA6020	QA3 .031027	.033080			.992006	.993006	.993046		.993206	.102		22, 34
QA6030	QA3 .031054											21
QA6032	QA3 .031055											21
QA6034	QA3 .031041	.033084			.992103	.993103	.993143			See Note 3		21
QA6036	QA3 .031042	.033085			.992104	.993104	.993144			See Note 3		21
QA6038	QA3 .031043	.033086			.992105	.993105	.993145			See Note 3		21
QA6040	QA3 .031044				.992106	.993106	.993146			See Note 3		21
QA6042	QA3 .031045											21
QA6060T	QA3 .032141											20
QA6064T	QA3 .031015									.114		20
QA6070T	QA3 .031053				.992404					.114		20
QA6074T	QA3 .031016	.033089			.992405		.993405			.114		20
QA6078T	QA3 .031017				.992406		.993406			.114		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)											
QA6082T QA3 .. .031018 .. .033091 .. .992407 .. .993407 .. .114											20
QA6084T QA3 .. .031019 .. .033092 .. .992408 .. .993408 .. .114											20
QA6102T QA3 .. .031049 .. .992503 .. .120											18
QA6106T QA3 .. .031048 .. .305129 .. .992505 .. .120											18
QA6128T QA3 .. .032021 .. .120											18
QS5006X ..... .033030 .. .345133 .. .992004 .. .993004 .. .993044 .. .993024 .. .993204 .. .102											22
QS5007X ..... .033029 .. .345163 .. .993014 .. .993054 .. .993034 .. .993214 .. .102											22, 34
QS5008X ..... .033032 .. .345134 .. .992005 .. .993005 .. .993045 .. .993025 .. .993205 .. .102											22, 34
QS5009X ..... .033031 .. .345164 .. .993015 .. .993055 .. .993035 .. .993215 .. .102											22, 34
QS5010X ..... .033034 .. .345135 .. .992006 .. .993006 .. .993046 .. .993026 .. .993206 .. .102											22, 34
QS5011X ..... .033033 .. .345165 .. .993016 .. .993056 .. .993036 .. .993216 .. .102											22, 34
QS5050X ..... .033002 .. .345131 .. .992002 .. .993002 .. .993042 .. .993022 .. .102											22
QS5052X ..... .033003 .. .345132 .. .992003 .. .993003 .. .993043 .. .993023 .. .993203 .. .102											22, 34
QS5052X ..... .033007 .. .345132 .. .992003 .. .993003 .. .993043 .. .993023 .. .993203 .. .102											22, 34
QS5053X ..... .345162 .. .993013 .. .993053 .. .993033 .. .993213 .. .102											22
QS5054X ..... .033004 .. .345133 .. .992004 .. .993004 .. .993044 .. .993024 .. .993204 .. .102											22, 34
QS5054X ..... .033008 .. .345133 .. .992004 .. .993004 .. .993044 .. .993024 .. .993204 .. .102											22, 34
QS5056X ..... .033005 .. .345134 .. .992005 .. .993005 .. .993045 .. .993025 .. .993205 .. .102											22
QS5056X ..... .033009 .. .345134 .. .992005 .. .993005 .. .993045 .. .993025 .. .993205 .. .102											22
QS5058X ..... .033006 .. .345135 .. .992006 .. .993006 .. .993046 .. .993026 .. .993206 .. .102											22, 34
QS5070X ..... .345133 .. .992004 .. .993004 .. .993044 .. .993024 .. .993204 .. .102											22, 34
QS5071X ..... .345163 .. .993014 .. .993054 .. .993034 .. .993214 .. .102											22
QS5072X ..... .345134 .. .992005 .. .993005 .. .993045 .. .993025 .. .993205 .. .102											22
QS5073X ..... .345164 .. .993015 .. .993055 .. .993035 .. .993215 .. .102											22
QS5074X ..... .345135 .. .345141 .. .992006 .. .993006 .. .993046 .. .993026 .. .993206 .. .102											22
QS5075X ..... .345165 .. .993016 .. .993056 .. .993036 .. .993216 .. .102											22
QS5076X ..... .345136 .. .345137 .. .993007 .. .102											22
QS5076X ..... .345139 .. .102											22
QS5077X ..... .993017 .. .102											21
QS5116X ..... .033016 .. .335130 .. .992103 .. .993103 .. .993143 .. .102											21
QS5118X ..... .033017 .. .335131 .. .992104 .. .993104 .. .993144 .. .102											21
QS5120X ..... .033018 .. .335132 .. .992105 .. .993105 .. .993145 .. .102											21
QS5122X ..... .033019 .. .335133 .. .335134 .. .992106 .. .993106 .. .993146 .. .102											21
QS5124X ..... .335135 .. .102											21
QS5164R ..... .033001 .. .102											Obsolete
QS5164R ..... .033089 .. .993405 .. .114											20
QS5164R ..... .033094 .. .993405 .. .114											20
QS5164R ..... .113001 .. .033094 .. .993405 .. .114											20
QS5166R ..... .033090 .. .395129 .. .993406 .. .114											20, 21
QS5166R ..... .033095 .. .395929 .. .993406 .. .114											20
QS5168R ..... .033028 .. .033091 .. .395130 .. .993407 .. .114											20
QS5168R ..... .033091 .. .395130 .. .993407 .. .114											20
QS5168R ..... .033096 .. .993407 .. .114											20
QS5170R ..... .033092 .. .395130 .. .993408 .. .114											20, 21
QS5170R ..... .033097 .. .395930 .. .993408 .. .114											20
QS5180R ..... .305129 .. .102											20
TA1916X Black Diamond XT .. .031065 .. .033076 .. .345133 .. .992004 .. .993004 .. .993044 .. .993024 .. .993204 .. .102											22, 34
TA1918X Black Diamond XT .. .031066 .. .033078 .. .345134 .. .992005 .. .993005 .. .993045 .. .993025 .. .993205 .. .102											22, 34
TA1920X Black Diamond XT .. .031039 .. .033080 .. .345135 .. .992006 .. .993006 .. .993046 .. .993026 .. .993206 .. .102											22
TA2000 Black Diamond .. .031021 .. .102											22, 34
TA2004X Black Diamond .. .031034 .. .102											22, 34
TA2008 Black Diamond .. .031023 .. .033072 .. .992002 .. .993002 .. .993042 .. .993022 .. .102											22, 34
TA2010 Black Diamond .. .031051 .. .992003 .. .993003 .. .993043 .. .993023 .. .993203 .. .102											22, 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		
MERCURY, MARINER, MERCUISER (Continued)											
TA2012 Black Diamond	. . .031024	.033074			.992003	.993003	.993043	.993023	.993203	. . . . .102	22, 34
TA2014 Black Diamond	. . .031052				.992004	.993004	.993044	.993024	.993204	. . . . .102	22, 34
TA2016 Black Diamond	. . .031025	.033076			.992004	.993004	.993044	.993024	.993204	. . . . .102	22, 34
TA2018 Black Diamond	. . .031026	.033078			.992005	.993005	.993045	.993025	.993205	. . . . .102	22, 34
TA2020 Black Diamond	. . .031027	.033080			.992006	.993006	.993046	.993026	.993206	. . . . .102	22, 34
TA2022X Black Diamond	. . .031067	.033082			.992007	.993007				. . . . .102	22, 34
TA2030X Black Diamond	. . .032089										Obsolete
TA2032X Black Diamond	. . .032091										Obsolete
TA2034 Black Diamond	. . .031041	.033084			.992103	.993103	.993143			. . . . .See Note 3	21
TA2036 Black Diamond	. . .031042	.033085			.992104	.993104	.993144			. . . . .See Note 3	21
TA2038 Black Diamond	. . .031043	.033086			.992105	.993105	.993145			. . . . .See Note 3	21
TA2040 Black Diamond	. . .031044	.033087			.992106	.993106	.993146			. . . . .See Note 3	21
TA2048 Black Diamond	. . .031041	.033084			.992103	.993103	.993143			. . . . .See Note 3	21
TA2050 Black Diamond	. . .031042	.033085			.992104	.993104	.993144			. . . . .See Note 3	21
TA2052 Black Diamond	. . .031043	.033086			.992105	.993105	.993145			. . . . .See Note 3	21
TA2054 Black Diamond	. . .031044				.992106	.993106	.993146			. . . . .See Note 3	21
TA2060T Black Diamond	. . .032141										20
TA2064T Black Diamond	. . .031015	.033088									20
TA2066T Black Diamond	. . .032142										20
TA2070T Black Diamond	. . .031053										20
TA2072T Black Diamond	. . .031056	.033089									20
TA2074T Black Diamond	. . .031016	.033089									20
TA2076T Black Diamond	. . .031057	.033090									20
TA2078T Black Diamond	. . .031017	.033090									20
TA2080T Black Diamond	. . .031058	.033091									20
TA2082T Black Diamond	. . .031018	.033091									20
TA2084T Black Diamond	. . .031019	.033092									20
TA2088T Black Diamond	. . .031022										22, 34
TA2102T Black Diamond	. . .032060										18
TA2106T Black Diamond	. . .031048										18
TA2122T Black Diamond	. . .032058										18
TA2126T Black Diamond	. . .032054										18
TA2128T Black Diamond	. . .032052										18
TA2202 Black Diamond	. . .031044				.992106	.993106	.993146			. . . . .See Note 3	21
TA2204 Black Diamond	. . .031043	.033086			.992105	.993105	.993145			. . . . .See Note 3	21
TA2206 Black Diamond	. . .031042	.033085			.992104	.993104	.993144			. . . . .See Note 3	21
TA2208 Black Diamond	. . .031041	.033084			.992103	.993103	.993143			. . . . .See Note 3	21
TA3150T Black Diamond	. . .012011										19
TA3152T Black Diamond	. . .012013										19
TA3808T Black Diamond	. . .022002										19
TS1006 Thunderbolt	. . .033030										Obsolete
TS1007 Thunderbolt	. . .033029										22, 34
TS1008 Thunderbolt	. . .033032										22, 34
TS1009 Thunderbolt	. . .033031										22, 34
TS1010 Thunderbolt	. . .033034										22, 34
TS1011 Thunderbolt	. . .033033										22, 34
TS1052 Silverado	. . .033003	.033074			.993003	.993043	.993023	.993203	. . . . .102		22, 34
TS1053 Silverado	. . .033075				.993013	.993053	.993033	.993213	. . . . .102		22, 34
TS1054 Silverado	. . .033004	.033076			.993004	.993044	.993024	.993204	. . . . .102		22, 34
TS1055 Silverado	. . .033077				.993014	.993054	.993034	.993214	. . . . .102		22, 34
TS1056 Silverado	. . .033005	.033078			.993005	.993045	.993025	.993205	. . . . .102		22
TS1057 Silverado	. . .033079				.993015	.993055	.993035	.993215102		22
TS1070 Lightspeed	. . .033076				.993004	.993044	.993024	.993204102		22

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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)												
TS1071	Lightspeed	.....	.033077	.....	.993014	.993054	.993034	.993214	.....	.102	22
TS1072	Lightspeed	.....	.033078	.....	.993005	.993045	.993025	.993205	.....	.102	22
TS1073	Lightspeed	.....	.033079	.....	.993015	.993055	.993035	.993215	.....	.102	22
TS1074	Lightspeed	.....	.033080	.....	.993006	.993046	.993026	.993206	.....	.102	22
TS1075	Lightspeed	.....	.033081	.....	.993016	.993056	.993036	.993216	.....	.102	22
TS1076	Lightspeed	.....	.033082	.....	.993007				.....	.102	22
TS1077	Lightspeed	.....	.033083	.....	.993017				.....	.102	22
TS1116	Silverado	..	.033016	.033084	.....	.993103	.993143		.....	.See Note 3	21
TS1118	Silverado	..	.033017	.033085	.....	.993104	.993144		.....	.See Note 3	21
TS1120	Lightspeed	.....	.033086	.....	.993105	.993145			.....	.See Note 3	21
TS1122	Lightspeed	.....	.033087	.....	.993106	.993146			.....	.See Note 3	21
TS1164T	Silverado	..	.033001	.033089	.....	.993405			.....	.114	21
TS1166T	Silverado	.....	.033090		.....	.993406			.....	.114	21
TS1168T	Silverado	..	.033028	.033091	.....	.993407			.....	.114	20
NISSAN, TOHATSU												
34664-1015M992501					.122	24
346-64102-5142022								24
34664-1025M992502					.122	24
346-64104-5142024								24
34664-1055M992506					.122	24
346-64106-5142020								24
348-64101-0143001								24
348-64102-0142003	.143003			.993406			.116	24
348-64103-0142004	.143004			.993407			.116	24
348-64104-0143002				.993405			.116	24
348-64105-0-not available143001								24
353-64103-0142005	.013080							25
353-64104-0013080							25
353-64105-0142006	.013081		.992301				.112	25
35364-1050M992301				.112	25
353-64106-0013082							25
353-64107-0142007	.013082		.992302				.112	25
35364-1070M992302				.112	25
353-64108-0142008	.013082							25
353-64109-0142009	.013083		.992303				.112	25
35364-1090M992303				.112	25
361-64102-0992406				.116	24
361-64103-0992407				.116	24
361-64109-0143001							24
361-64113-0142001	.143001		.992404				.116	24
361-64114-0142002	.143001		.992405				.116	24
362-64102-0142017								24
362-64105-0142015								24
362-64108-0142019								24
3B7-64532-0142010	.103056	.335930	.992103	.993103	.993143		.See Note 4	25
3B7-64536-0142011	.103056	.335931	.992103	.993103	.993143		.See Note 4	25
3B7-64541-0142012	.103057	.335932	.992104	.993104	.993144		.See Note 4	25
3B7-64545-0142013	.103058	.335933	.992105	.993105	.993145		.See Note 4	25
3B7-64549-0103059	.335933						25
3C7645140142012	.103057	.335932	.992104	.993104	.993144		.See Note 4	25
3C7645360142011	.103057	.335931	.992104	.993104	.993144		.See Note 4	25
3E3-64526-0143002							24

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			
NISSAN, TOHATSU (Continued)												
3E3-64528-0												24
3E3-64531-0												24
3R064-5250M											122	24
NM889210130												24
NM889410120												24
NM889410130												24
NM889410140												24
NM889410150												24
NM889510150												25
NM889510170												25
NM889610150												25
NM889610170												25
SUZUKI												
58100-90420-019												28
58100-90J00-019												28
58100-90J01-019												28
58100-90J10-019												28
58100-90J11-019												28
58100-90J21-019												28
58100-90J41-019												28
58100-93703-019												26
58100-93723-019												26
58100-93743-019												26
58100-93763-019												26
58100-94313-019												27
58100-94410												27
58100-94411												27
58100-94412												27
58100-94500-019												27
58100-94500-019												27
58100-94512-019												27
58100-94512-019												27
58100-94522-019												27
58100-94522-019												27
58100-94532-019												27
58100-94532-019												27
58100-94554												27
58100-94561												27
58100-94571												27
58100-94581												27
58100-95212-019												27
58100-95222-019												27
58100-95353-019												27
58100-95363-019												27
58100-95373-019												27
58100-95382-019												27
58100-95393-019												27
58100-95500-019												27
58100-95511-019												27
58100-95521-019												27
58100-95530-019												27
58100-95D00-019												26

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			
SUZUKI (Continued)												
58100-96410-019					.992502						.121	26
58100-96420-019	.062012				.992503						.121	26
58100-96430-019	.062013				.992504						.121	26
58100-96440-019	.062014		.305529		.992505						.121	26
58100-96490-019			.305529									26
58200-96400			.305529									26
99105-00100-16P	.063001	.063042	.335530		.993103	.993143					.110	27
99105-00100-18P	.063002	.063043	.335531		.993104	.993144					.110	27
99105-00100-20P	.063003	.063044	.335532		.993105	.993145					.110	27
99105-00100-22P		.063045	.335534		.993106	.993146					.110	27
99105-00101-20P	.063003	.063044	.335532		.993105	.993145					.110	27
99105-00101-22P		.063045			.993106	.993146					.110	27
99105-00101-24P			.335535									27
99105-00200-16P		.063030	.345531		.993002	.993042	.993022				.104	28
99105-00200-18P		.063032	.345532		.993003	.993043	.993023	.993203			.104	28
99105-00200-20P		.063034	.345533		.993004	.993044	.993024	.993204			.104	28
99105-00200-22P		.063036	.345534	.345541	.993005	.993045	.993025	.993205			.104	28
99105-00200-24P		.063038	.345535	.345537	.993006	.993046	.993026	.993206			.104	28
99105-00200-26P		.063040	.345538		.993007						.104	28
99105-00201-26P		.063040	.345538		.993007						.104	28
99105-00203-23P	.Thunder™	.063038	.345537		.993006	.993046	.993026	.993206			.104	28
99105-00203-25P	.Thunder™	.063040	.345538		.993007						.104	28
99105-0020L-16P		.063031			.993012	.993052	.993032				.104	28
99105-0020L-18P		.063033	.345562		.993013	.993053	.993033	.993213			.104	28
99105-0020L-20P		.063035	.345563		.993014	.993054	.993034	.993214			.104	28
99105-0020L-22P		.063037	.345564		.993015	.993055	.993035	.993215			.104	28
99105-0020L-24P		.063039	.345565		.993016	.993056	.993036	.993216			.104	28
99105-0020L-26P		.063041			.993017						.104	28
99105-00300-24P		.063038			.993006	.993046	.993026	.993206			.104	28
99105-00300-25P		.063040			.993007						.104	28
99105-00500-12P		.033094				.993405					.115	27
99105-00500-13P		.033095	.395929			.993406					.115	27
99105-00500-14P		.033096				.993407					.115	27
99105-00500-15P		.033097	.395930			.993408					.115	27
99105-00600-13P			.305529									26
99105-00600-15P			.305530									26
VOLVO												
3850302	.161004	.163018	.346034		.992005	.993005	.993045	.993025	.993205		.105	40
3850303	Aluminum		.346035			.993006	.993046	.993026	.993206		.105	40
3850305	.SST®	.163002	.163012	.346031		.993002	.993042	.993022			.105	40
3850306	.SST®		.346032			.993003	.993043	.993023	.993203		.105	40
3850307	.SST®	.163004	.163014	.346032		.993003	.993043	.993023	.993203		.105	40
3850308	.SST®	.163006	.163016	.346033		.993004	.993044	.993024	.993204		.105	40
3850309	.SST®	.163008	.163018	.346034		.993005	.993045	.993025	.993205		.105	40
3850310	.SST®	.163010	.163020	.346035		.993006	.993046	.993026	.993206		.105	40
3850311	.VIPER™		.163014	.346032		.993003	.993043	.993023	.993203		.105	40
3850312	.VIPER™		.163016	.346033		.993004	.993044	.993024	.993204		.105	40
3850313	.VIPER™		.163018	.346034		.993005	.993045	.993025	.993205		.105	40
3850314	.VIPER™		.163020	.346035		.993006	.993046	.993026	.993206		.105	40
3850315	(LH)		.163013			.993012	.993052	.993032			.105	40
3850316	.SST® (LH)	.163003	.163015	.346062		.993013	.993053	.993033	.993213		.105	40
3850317	.SST® (LH)	.163005	.163017	.346063		.993014	.993054	.993034	.993214		.105	40

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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)											
3850318	.SST® (LH)	.163007	.163019	.346064		.993015	.993055	.993035	.993215		40
3850319	.SST® (LH)	.163009	.163021	.346065		.993016	.993056	.993036	.993216		40
3850320	.VIPER™ (LH)		.163015	.346062		.993013	.993053	.993033	.993213		40
3850321	.VIPER™ (LH)		.163017	.346063		.993014	.993054	.993034	.993214		40
3850322	.VIPER™ (LH)		.163019	.346064		.993015	.993055	.993035	.993215		40
3850323	.VIPER™ (LH)		.163021	.346065		.993016	.993056	.993036	.993216		40
3855142	.Raker®		.163016	.346034		.993004	.993044	.993024	.993204		40
3855144	.Raker®		.163018	.346035		.993005	.993045	.993025	.993205		40
3855146	.Raker®		.163020	.346036		.993006	.993046	.993026	.993206		40
3855148	.Raker®		.163022			.993007					40
3855152	.Raker® (LH)		.163017	.346064		.993014	.993054	.993034	.993214		40
3855154	.Raker® (LH)		.163019	.346065		.993015	.993055	.993035	.993215		40
3855156	.Raker® (LH)		.163021			.993016	.993056	.993036	.993216		40
3855158	.Raker® (LH)		.163023			.993017					40
3850299-3		.161001	.163012	.346031		.992002	.993002	.993042	.993022		40
3850300-9		.161002	.163014	.346032		.992003	.993003	.993043	.993023		40
3850301-7		.161003	.163016	.346033		.992004	.993004	.993044	.993024		40
3850302-5		.161004	.163018	.346034		.992005	.993005	.993045	.993025		40
3850305-8		.163002	.163012	.346031		.993002	.993042	.993022			40
3850307-4		.163004	.163014	.346032		.993003	.993043	.993023	.993203		40
3850308-2		.163006	.163016	.346033		.993004	.993044	.993024	.993204		40
3850309-0		.163008	.163018	.346034		.993005	.993045	.993025	.993205		40
3850310-8		.163010	.163020	.346035		.993006	.993046	.993026	.993206		40
3850314-0			.163018	.346035		.993005	.993045	.993025	.993205		40
3850315-7			.163013			.993012	.993052	.993032			40
3850316-5		.163003	.163015	.346062		.993013	.993053	.993033	.993213		40
3850317-3		.163005	.163017	.346063		.993014	.993054	.993034	.993214		40
3850318-1		.163007	.163019	.346064		.993015	.993055	.993035	.993215		40
3850319-9		.163009	.163021	.346065		.993016	.993056	.993036	.993216		40
3850323-1			.163019	.346065		.993015	.993055	.993035	.993215		40
813226-		.082045									39
813228-		.082057									39
813316-7		.082087-1									39
814611-0		.082059-1									39
814611-1		.082059-1									39
814612-8		.082029-1									39
814615-1		.082060-1									39
814616-9		.082030-1									39
814626-8		.082025-1									39
814627-6		.082027-1									39
814628-4		.082031-1									39
814629-2		.082033									39
814631-8		.082026-1									39
814632-6		.082028-1									39
814633-4		.082032-1									39
814634-2		.082034									39
850864-0		.082013-1									39
850865-7		.082014-1									39
850866-5		.082015-1									39
850867-3		.082016-1									39
851035-6		.082089-1									39
851037-2		.082091-1									39
851038-0		.082090-1									39

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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)											
851039-8	.082093-1										39
851040-6	.082092-1										39
851124-8	.082011-1										39
851125-5	.082012-1										39
851138-8	.082009-1										39
851139-6	.082010-1										39
852085-0	.083003										39
852086-8	.083001										39
852087-6	.083005										39
852137-9	.083006										39
852138-7	.083004										39
852155-1	.083002										39
854146-8	.082032-1										39
854147-6	.082031-1										39
854148-4	.082030-1										39
854149-2	.082029-1										39
854285-4	.082001-1										39
854286-2	.082002-1										39
854286-4	.082002-1										39
854288-8	.082003-1										39
854289-6	.082004-1										39
854977-6	.082001-1										39
854978-4	.082003-1										39
854979-2	.082009-1										39
854982-6	.082011-1										39
854983-4	.082013-1										39
854984-2	.082015-1										39
854986-7	.082089-1										39
854987-5	.082091-1										39
854988-3	.082093-1										39
854993-3	.082004-1										39
854997-4	.082012-1										39
854998-2	.082014-1										39
854999-0	.082016-1										39
872001-3	.082090-1										39
872002-1	.082092-1										39
YAMAHA											
61A-45972-00-98	103050				.993005	.993045	.993025	.993205		.103	32, 41
61A-45974-00-98	103048				.993004	.993044	.993024	.993204		.103	32, 41
61A-45978-00-98	103046				.993003	.993043	.993023	.993203		.103	32, 41
61B-45972-00-98 (LH)	103051				.993015	.993055	.993035	.993215		.103	32, 41
61B-45974-00-98 (LH)	103049				.993014	.993054	.993034	.993214		.103	32, 41
61B-45978-00-98 (LH)	103047				.993013	.993053	.993033	.993213		.103	32, 41
62A-45970-10-00	103058		.335934		.993105	.993145				See Note 1	31
62A-45970-10-00 PRO HP	103059				.993106	.993146				See Note 1	31
62A-45972-10-00	103059		.335935		.993106	.993146				See Note 1	31
62A-45974-10-00 PRO HP	103058				.993105	.993145				See Note 1	31
650-45943-01-36	.012102										29
651-45947-00-36	.012011										29
653-45941-01-36	.012013										29
663-45943-01-36	.032040	.033097			.992408		.993408			.117	30
663-45943-02-36	.032040	.033097			.992408		.993408			.117	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)												
663-45943-02-EL	.032040	.033097			.992408		.993408				.117	30
663-45945-01-36	.032042	.033095			.992406		.993406				.117	30
663-45945-02-36	.032042	.033095			.992406		.993406				.117	30
663-45945-02-EL	.032042	.033095			.992406		.993406				.117	30
663-45947-01-36	.032044				.992404						.117	30
663-45947-02-36	.032044				.992404						.117	30
663-45947-02-EL	.032044				.992404						.117	30
663-45949-01-36	.032039				.992409						.117	30
663-45949-01-EL	.032039				.992409						.117	30
663-45952-02-EL	.032043	.033094			.992405		.993405				.117	30
663-45958-00-36	.032041	.033096			.992407		.993407				.117	30
663-45958-00-EL	.032041	.033096			.992407		.993407				.117	30
663-45958-01-36	.032041	.033096			.992407		.993407				.117	30
663-45958-01-EL	.032041	.033096			.992407		.993407				.117	30
663-45970-60-98		.033095	.395929				.993406				.117	30
663-45972-60-98	.113001	.033094					.993405				.117	30
663-45974-60-98		.033096					.993407				.117	30
663-45976-00-98		.033097	.395930				.993408				.117	30
663-45978-00-98		.033097					.993408				.117	30
664-45941-01-36	.022001				.992501						.123	30
664-45941-01-EL	.022001				.992501						.123	30
664-45945-00-36	.022002				.992502						.123	30
664-45945-00-EL	.022002				.992502						.123	30
664-45947-01-EL	ALUMINUM .022002				.992503						.123	30
664-45949-02-EL			.305929		.992505						.123	30
664-45952-00-EL			.305930		.992506						.123	30
664-45954-00-EL	.022003				.992504						.123	30
664-45970-00-98			.305929									30
66K-45972-B0-00		.103054		.345938		.993007					.103	32, 41
66K-45974-B0-00							.993046				.103	32, 41
683-45943-00-36	.102005											29
683-45943-00-EL	.102005											29
683-45945-00-36	.102004											29
683-45945-00-EL	.102004											29
683-45947-00-36	.102003											29
683-45947-00-EL	.102003											29
683-W4591-02-EL	ALUMINUM .102003											29
688-45930-01-98	.103026	.103057	.335931		.993104	.993144					See Note 1	31
688-45930-02-98	.103026	.103057	.335931		.993104	.993144					See Note 1	31
688-45930-60-98	.103026	.103057	.335931		.993104	.993144					See Note 1	31
688-45932-60-98			.335930									31
688-45970-01-98	.103027	.103058	.335932		.993105	.993145					See Note 1	31
688-45970-02-98	.103027	.103058	.335932		.993105	.993145					See Note 1	31
688-45970-03-98	.103027	.103058	.335932		.993105	.993145					See Note 1	31
688-45972-01-98		.103059	.335933		.993106	.993146					See Note 1	31
688-45972-02-98		.103059	.335933		.993106	.993146					See Note 1	31
688-45978-60-98	.103025	.103056	.335931		.993103	.993143					See Note 1	31
6E5-45941-00-36	.101034	.103058	.335932		.992105	.993105	.993145				See Note 1	31
6E5-45941-00-EL	.101034	.103058	.335932		.992105	.993105	.993145				See Note 1	31
6E5-45943-00-36	.101035	.103059	.335933		.992106	.993106	.993146				See Note 1	31
6E5-45943-00-EL	.101035	.103059	.335933		.992106	.993106	.993146				See Note 1	31
6E5-45945-00-36	.101033	.103057	.335931		.992104	.993104	.993144				See Note 1	31
6E5-45945-00-EL	.101033	.103057	.335931		.992104	.993104	.993144				See Note 1	31

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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)												
6E5-45945-01-EL	.101033	.103057	.335931		.992104	.993104	.993144				See Note 1	31
6E5-45947-00-36	.101032	.103056	.335930		.992103	.993103	.993143				See Note 1	31
6E5-45947-00-EL	.101032	.103056	.335930		.992103	.993103	.993143				See Note 1	31
6E5-45949-00-36	.101031											31
6E5-45949-00-EL	.101031											31
6E5-45954-00-EL	.101036											31
6E5-45970-10-00		.103048	.345933			.993004	.993044		.993204		.103	32, 41
6E5-45970-10-98		.103048	.345933			.993004	.993044		.993204		.103	32, 41
6E5-45972-10-00		.103052	.345935			.993006	.993046		.993206		.103	32, 41
6E5-45972-10-98		.103052	.345935			.993006	.993046		.993206		.103	32, 41
6E5-45976-10-00		.103050	.345934			.993005	.993045		.993205		.103	32, 41
6E5-45976-10-98		.103050	.345934			.993005	.993045		.993205		.103	32, 41
6E5-45978-10-00		.103054	.345936			.993007					.103	32, 41
6E5-45978-10-98		.103054	.345936			.993007					.103	32, 41
6G1-45943-00-36	.102002											29
6G1-45943-00-EL	.102002											29
6G1-45947-00-EL	.102001											29
6G5-45930-00-98		.103054	.345936			.993007					.103	32, 41
6G5-45941-00-36	.101025	.103044	.345931		.992002	.993002	.993042	.993022			.103	32, 41
6G5-45941-00-98	.101025	.103044	.345931		.992002	.993002	.993042	.993022			.103	32, 41
6G5-45941-00-EL	.101025	.103044	.345931		.992002	.993002	.993042	.993022			.103	32, 41
6G5-45943-00-36	.101029	.103050	.345934		.992005	.993005	.993045	.993025	.993205		.103	32, 41
6G5-45943-00-EL	.101029	.103050	.345934		.992005	.993005	.993045	.993025	.993205		.103	32, 41
6G5-45943-01-98	.101029	.103050	.345934		.992005	.993005	.993045	.993025	.993205		.103	32, 41
6G5-45945-00-36	.101028	.103048	.345933		.992004	.993004	.993044	.993024	.993204		.103	32, 41
6G5-45945-00-EL	.101028	.103048			.992004	.993004	.993044	.993024	.993204		.103	32, 41
6G5-45945-01-98	.101028	.103048	.345933		.992004	.993004	.993044	.993024	.993204		.103	32, 41
6G5-45945-01-EL	.101028	.103048			.992004	.993004	.993044	.993024	.993204		.103	32, 41
6G5-45947-01-98	.101027	.103046	.345932		.992003	.993003	.993043	.993023	.993203		.103	32, 41
6G5-45947-01-EL	.101027	.103046			.992003	.993003	.993043	.993023	.993203		.103	32, 41
6G5-45949-00-36	.101030	.103052			.992006	.993006	.993046	.993026	.993206		.103	32, 41
6G5-45949-00-98	.101030	.103052	.345935		.992006	.993006	.993046	.993026	.993206		.103	32, 41
6G5-45949-00-EL	.101030	.103052			.992006	.993006	.993046	.993026	.993206		.103	32, 41
6G5-45952-00-98	.101026	.103044			.992003	.993002	.993042	.993022			.103	32, 41
6G5-45952-00-EL	.101026	.103044			.992003	.993002	.993042	.993022			.103	32, 41
6G5-45970-00-98		.103044				.993002	.993042	.993022			.103	32, 41
6G5-45970-01-98		.103044				.993002	.993042	.993022			.103	32, 41
6G5-45970-02-98		.103044	.345931			.993002	.993042	.993022			.103	32, 41
6G5-45972-00-98	.103022	.103050				.993005	.993045	.993025	.993205		.103	32, 41
6G5-45972-01-98	.103022	.103050				.993005	.993045	.993025	.993205		.103	32, 41
6G5-45972-02-98	.103022	.103050	.345934			.993005	.993045	.993025	.993205		.103	32, 41
6G5-45972-03-98	.103022	.103050				.993005	.993045	.993025	.993205		.103	32, 41
6G5-45974-00-98	.103020	.103048				.993004	.993044	.993024	.993204		.103	32, 41
6G5-45974-01-98	.103020	.103048				.993004	.993044	.993024	.993204		.103	32, 41
6G5-45974-02-98	.103020	.103048				.993004	.993044	.993024	.993204		.103	32, 41
6G5-45974-03-98	.103020	.103048	.345933			.993004	.993044	.993024	.993204		.103	32, 41
6G5-45976-00-98		.103052				.993006	.993046	.993026	.993206		.103	32, 41
6G5-45976-01-98		.103052	.345935			.993006	.993046	.993026	.993206		.103	32, 41
6G5-45978-00-98	.103018	.103046				.993003	.993043	.993023	.993203		.103	32, 41
6G5-45978-01-98	.103018	.103046				.993003	.993043	.993023	.993203		.103	32, 41
6G5-45978-02-98	.103018	.103046				.993003	.993043	.993023	.993203		.103	32, 41
6G5-45978-03-98	.103018	.103046	.345932			.993003	.993043	.993023	.993203		.103	32, 41
6H5-45943-00-EL	.032040	.033097	.395930		.992408						.117	30

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	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
YAMAHA (Continued)												
6H5-45945-00-EL .....	.032042	.033095	.395929		.992406						.117	30
6H5-45952-00-EL .....	.032043	.033094			.992405						.117	30
6H5-45958-00-EL .....		.033096			.992407						.117	30
6J9-45970-B0-00 .....		.103054			.993007						.103	32, 41
6J9-45972-B0-00 .....		.103052	.345937		.993006	.993046	.993026	.993206			.103	32, 41
6J9-45976-10-00 .....		.103050	.345941		.993005	.993045	.993025	.993205			.103	32, 41
6K1-45945-00-98 .....	.031025	.033076	.345933		.992004	.993004	.993044	.993024	.993204		.102	32
6K1-45947-00-98 .....	.031024	.033074	.345932		.992003	.993003	.993043	.993023	.993203		.102	32
6K1-45970-00-98 (LH) .....		.103045			.993012	.993052	.993022				.103	32, 41
6K1-45970-01-98 (LH) .....		.103045			.993012	.993052	.993022				.103	32, 41
6K1-45972-00-00 (LH) .....		.103051			.993015	.993055	.993035	.993215			.103	32, 41
6K1-45972-00-98 (LH) .....		.103051			.993015	.993055	.993035	.993215			.103	32, 41
6K1-45972-01-98 (LH) .....		.103051	.345964		.993015	.993055	.993035	.993215			.103	32, 41
6K1-45974-00-00 (LH) .....		.103049			.993014	.993054	.993034	.993214			.103	32, 41
6K1-45974-00-98 (LH) .....		.103049			.993014	.993054	.993034	.993214			.103	32, 41
6K1-45974-01-98 (LH) .....		.103049			.993014	.993054	.993034	.993214			.103	32, 41
6K1-45974-02-98 (LH) .....		.103049	.345963		.993014	.993054	.993034	.993214			.103	32, 41
6K1-45976-00-98 (LH) .....		.103053	.345965		.993016	.993056	.993036	.993216			.103	32, 41
6K1-45976-01-98 (LH) .....		.103053			.993016	.993056	.993036	.993216			.103	32, 41
6K1-45978-00-00 (LH) .....		.103047			.993013	.993053	.993033	.993213			.103	32, 41
6K1-45978-00-98 (LH) .....		.103047			.993013	.993053	.993033	.993213			.103	32, 41
6K1-45978-01-98 (LH) .....		.103047			.993013	.993053	.993033	.993213			.103	32, 41
6K1-45978-02-98 (LH) .....		.103047	.345962		.993013	.993053	.993033	.993213			.103	32, 41
6R1-45970-AO-00 (LH) .....		.103049			.993014	.993054	.993034	.993214			.103	32, 41
6R1-45972-AO-00 (LH) .....		.103051			.993015	.993055	.993035	.993215			.103	32, 41
6R1-45974-AO-00 (LH) .....		.103053			.993016	.993056	.993036	.993216			.103	32, 41
6R1-45976-AO-00 (LH) .....		.103045			.993012	.993052					.103	32, 41
6R1-45978-AO-00 (LH) .....		.103047			.993013	.993053	.993033	.993213			.103	32, 41
6R4-45970-AO-00 .. SALTWATER .....		.103048			.993004	.993044	.993024	.993214			.103	32, 41
6R4-45972-AO-00 .. SALTWATER .....		.103050			.993005	.993045	.993025	.993215			.103	32, 41
6R4-45974-AO-00 .. SALTWATER .....		.103052			.993006	.993046	.993026	.993216			.103	32, 41
6R4-45976-AO-00 .. SALTWATER .....		.103044			.993002	.993042	.993022				.103	32, 41
6R4-45978-AO-00 .. SALTWATER .....		.103046			.993003	.993043	.993023				.103	32, 41
MAR-GYT3B-03-13 .. STAINLESS .....		.033095										30
MAR-GYT3B-03-15 .. STAINLESS .....		.033097										30
MAR-GYT3B-L6-16 (LH) .....		.103045			.993012	.993052	.993032				.103	32, 41
MAR-GYT3B-L6-18 (LH) .....		.103047	.345963		.993013	.993053	.993033	.993213			.103	32, 41
MAR-GYT3B-L6-20 (LH) .....		.103049	.345964		.993014	.993054	.993034	.993214			.103	32, 41
MAR-GYT3B-L6-22 (LH) .....		.103051	.345965		.993015	.993055	.993035	.993215			.103	32, 41
MAR-GYT3B-V4-18 .....		.103057	.335932		.993104	.993144					See Note 1	31
MAR-GYT3B-V4-20 .....		.103058	.335933		.993105	.993145					See Note 1	31
MAR-GYT3B-V4-22 .....		.103059			.993106	.993146					See Note 1	31
MAR-GYT3B-V6-16 .....		.103044	.345932		.993002	.993042	.993022				.103	32, 41
MAR-GYT3B-V6-18 .....		.103046	.345933		.993003	.993043	.993023	.993203			.103	32, 41
MAR-GYT3B-V6-20 .....		.103048	.345934		.993004	.993044	.993024	.993204			.103	32, 41
MAR-GYT3B-V6-22 .....		.103050	.345935		.993005	.993045	.993025	.993205			.103	32, 41
MAR-GYT3B-V6-24 .....		.103052	.345936		.993006	.993046	.993026	.993206			.103	32, 41
MAR-GYT3B-V6-25 .....		.103054			.993007						.103	32, 41
MAR-GYT3B-V6-26 .....		.103054			.993007						.103	32, 41
MAR-GYT4B-V6-18 .....							.993204				.103	32, 41
MAR-GYT4B-V6-20993205				.103	32, 41
MAR-GYT4B-V6-22435935									32, 41
MAR-GYT4B-V6-22993206				.103	32, 41

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	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade			
YAMAHA (Continued)												
MAR-GYT4B-V6-23												32, 41
MAR-GYT4B-V6-24												32, 41
MAR-GYT4B-V6-25												32, 41
MAR-GYT4B-V6-26												32, 41
MAR-VMAX3-04-18 .....		.103057	.335932		.993104	.993144					See Note 1	31
MAR-VMAX3-04-20 .....		.103058	.335933		.993105	.993145					See Note 1	31
MAR-VMAX3-04-22 .....		.103059			.993106	.993146					See Note 1	31
MAR-VMAX3-06-16 .....		.103044	.345932		.993002	.993042	.993022				.103	32, 41
MAR-VMAX3-06-18 .....		.103046	.345933		.993003	.993043	.993023	.993203			.103	32, 41
MAR-VMAX3-06-20 .....		.103048	.345934		.993004	.993044	.993024	.993204			.103	32, 41
MAR-VMAX3-06-22 .....		.103050	.345935	.435935	.993005	.993045	.993025	.993205			.103	32, 41
MAR-VMAX3-06-24 .....		.103052	.345936	.435936	.993006	.993046	.993026	.993206			.103	32, 41
MAR-VMAX3-06-26 .....		.103054		.435937	.993007						.103	32, 41
MAR-VMAX3-C6-18 (LH) .....		.103047	.345963		.993013	.993053	.993033	.993213			.103	32, 41
MAR-VMAX3-C6-20 (LH) .....		.103049	.345964		.993014	.993054	.993034	.993214			.103	32, 41
MAR-VMAX3-C6-22 (LH) .....		.103053	.345965		.993016	.993056	.993036	.993216			.103	32, 41

	Yamaha	
Note 1	T50, 1996 to Present, 15 tooth spline	108
	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

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Note 2	90-140 Large Gearcase, 1976 thru 1990, 15 tooth spline	101
	90-140 Large Gearcase, 1991 to present, 15 tooth spline	100
	150-300 HP, 1976 thru 1990, 15 tooth spline	101
	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

	Mercury/Mariner	
Note 3	40, 50 & 60 HP Bigfoot, 15 tooth spline	102
	70-140 HP Except 135 HP, 1961 to present, 15 tooth spline	102
	XR-4, XR-6, 15 tooth spline	102
	Honda Outboards	
	75-90 HP, thru 1988, 15 tooth spline	102
	75-90 HP, 1999 & Newer, 15 tooth spline	107
	115-130 HP, 1998 & Newer, 15 tooth spline	107
	Force	
	75-150 HP, 1995 & Newer, 15 tooth spline	102
	Yamaha	
	80-140 HP, 1978 thru 1983, 15 tooth spline	102

	Nissan/Tohatsu	
Note 4	90 HP, 1987 & Newer, 15 tooth spline	109
	115 HP, 1992 & Newer, 15 tooth spline	109
	120 HP & 140 HP, 1988 & Newer	109
	Suzuki	
	DF90 & DF115, 2001 & Newer, 15 tooth spline	125
	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: _____

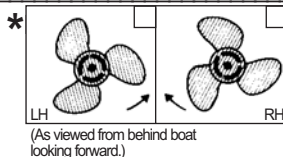
Manufacturer: _____ Model: _____

Material: Aluminum Stainless Steel Other: _____

Part No. _____

*Shaft Size: _____

Your Comments:



Check one: feet m

A _____
 B _____
 C _____
 D _____

Circle boat type. Check hull type.

		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>

		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>

For Michigan Wheel Corp. use only

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

Blades: _____ Material: _____

Comments: _____



Michigan Wheel Corporation - Headquarters





MICHIGAN WHEEL CORPORATION

1501 Buchanan Avenue S.W.
Grand Rapids, MI 49507

Phone: (616) 452-6941

Fax: (616) 247-0227

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UMMA
UNITED MARINE MANUFACTURERS ASSN. INC.

Members NMDA, NMMA, NAMPS, NMPA, UMMA

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Part Number 99021207