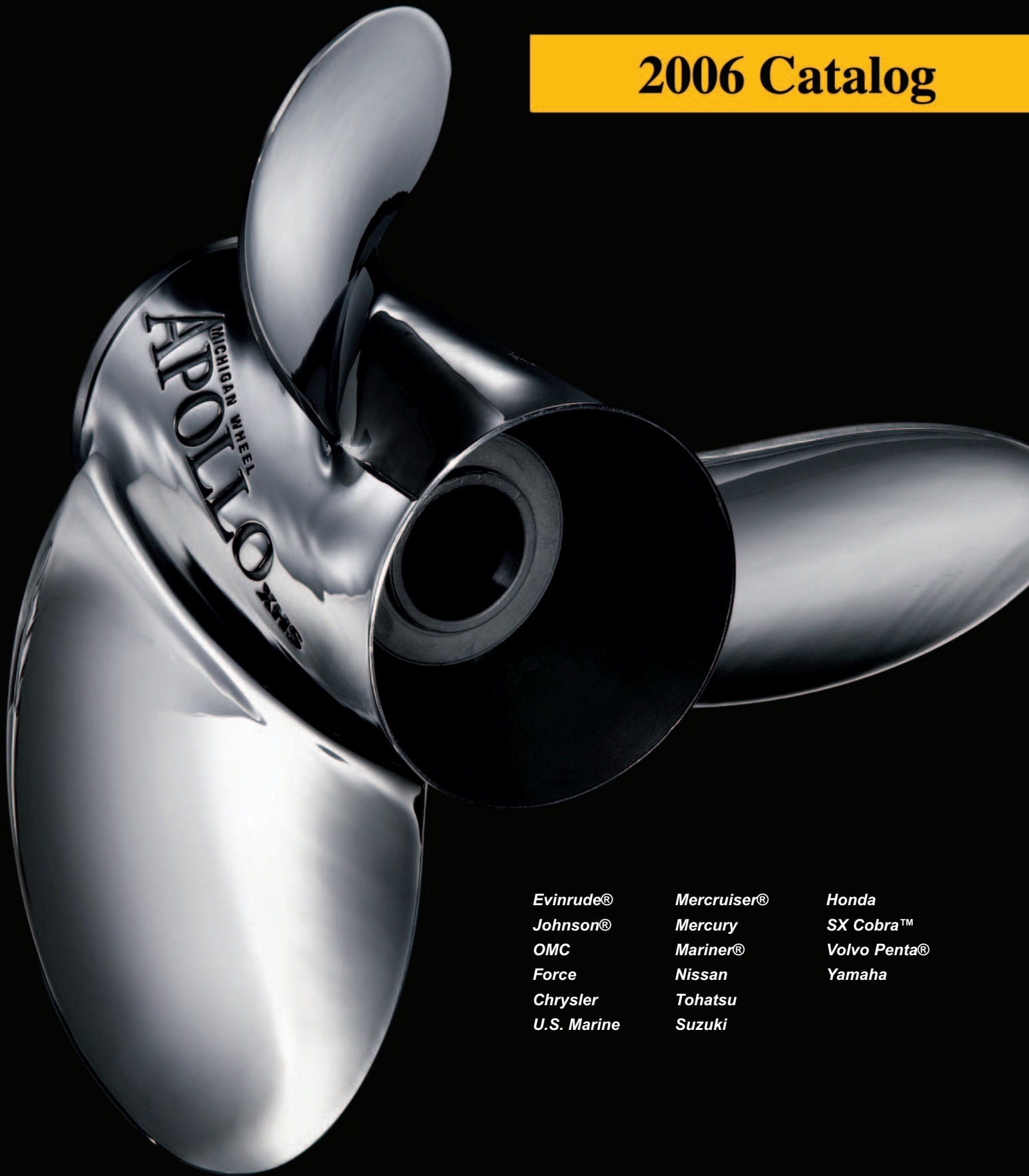


Outboard & Sterndrive Propellers

2006 Catalog



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

MerCruiser®
Mercury
Mariner®
Nissan
Tohatsu
Suzuki

Honda
SX Cobra™
Volvo Penta®
Yamaha

Michigan Wheel Corporation 

New from Michigan Wheel . . .



New! Highly polished, ultimate performance, stainless steel propeller.



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

Available Sizes:

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



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

Available Sizes:

V4 OB - 15" to 21" pitch, RH & LH rotations
V8/V6 OBSD - 15" to 23" pitch, RH & LH rotations



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

Available Sizes:

16" to 22" pitch, RH & LH rotations



New and improved Ambush4 ski and tow boat propeller!

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.

TABLE OF CONTENTS

Propeller Basics	A2 - A4
Choosing the Right Propeller	A5
Engine RPM Chart	A6
2006 Michigan Propellers	A7 - A11

SKI & TOWBOAT PROPELLERS

Dyna-Jet 3-Blade Ski Propeller	A12
Ambush 4-blade Ski/Towboat Propeller	A12 - A13

OUTBOARD PROPELLERS - APPLICATION GUIDE

How to Use The Application Guide	A14
Evinrude, Johnson Outboards	2 - 10
Force, Chrysler, U.S. Marine Outboards	11 - 14
Honda Outboards	15 - 17
Mercury, Mariner, Sea Ray Outboards	18 - 23
Nissan/Tohatsu Outboards	24 - 25
Suzuki Outboards	26 - 28
Yamaha Outboards	29 - 32

STERNDRIVE PROPELLERS - APPLICATION GUIDE

MerCruiser Sterndrives	34 - 35
OMC/Outboard Marine Sterndrives	36 - 38
Volvo Sterndrives	39 - 40
Yamaha Sterndrives	41
XHS Propeller Accessories	47-48

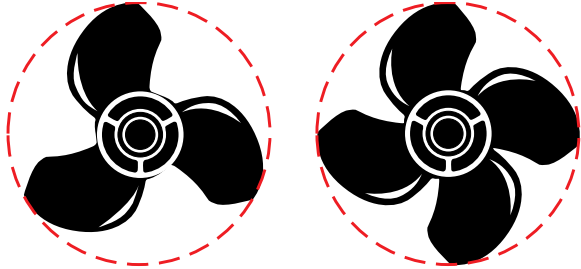
PROPELLER CROSS REFERENCE

Michigan Wheel Alpha-Numeric Cross Reference	B2
OEM Cross Reference	B3 - B35
XHS™ Hub System to Mercury Flo-Torq II® Hub System Cross Reference	B35
Michigan Match™ to XHS™ Cross Reference	B36
Rapture™ to XHS™ Cross Reference	B37 - B38
Michigan Wheel Warranty	49
Prop-It-Right Analysis Form	50

PROPELLER BASICS

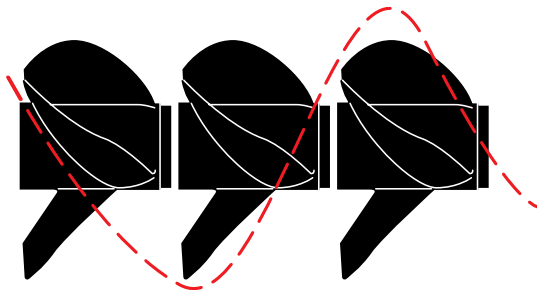
Diameter

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



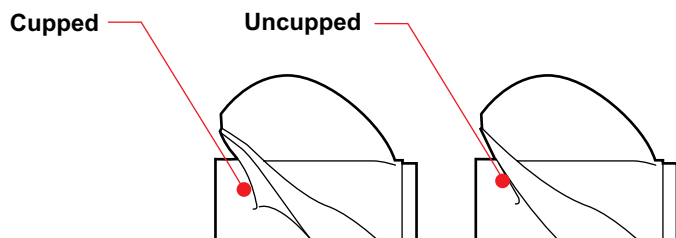
Pitch

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



Cupping

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

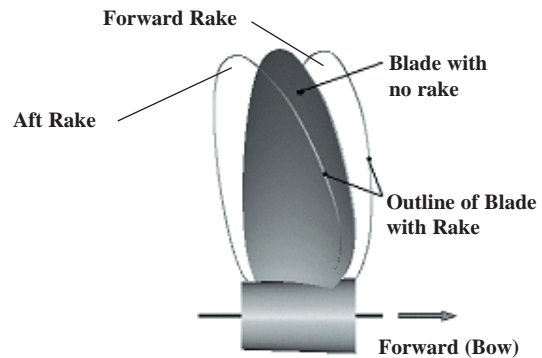


Rake

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

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

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



Ventilation

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

Cavitation

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

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

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

PROPELLER BASICS

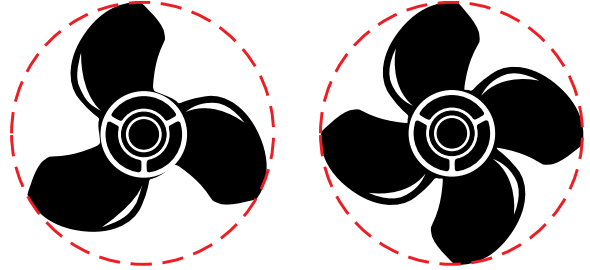
Finding the right match between the propeller, engine type and boat size will optimize the following performance factors — increased top end, faster planing speed, improved low end punch and load carrying capability.

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

3 blades ... or 4?

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

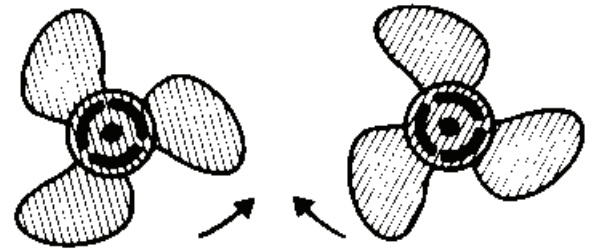
We recommend 4-blade propellers for bass boats and boats with high performance hulls running high horsepower outboard engines. Compared to 3 blades, they provide better "hole shot" performance with less steering torque and less vibration at high speeds.



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

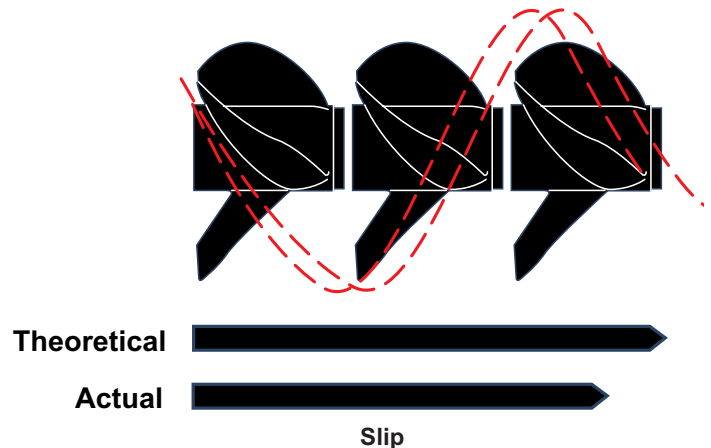
Two propellers spinning the same direction on twin engine boats will create steering torque. In other words, two right-hand propellers pull the stern hard to the right and the bow to the left.

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



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

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



PROPELLER BASICS

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

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

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

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

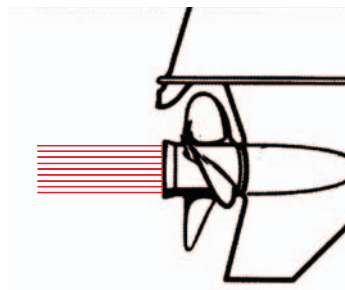
Over/Thru-hub exhaust propellers are a combination of thru-hub and over-hub exhaust propellers. This allows some exhaust to escape at lower RPM, providing a controlled amount of exhaust flooding. These types of propellers will allow the propeller to be slightly easier to turn during initial acceleration,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

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

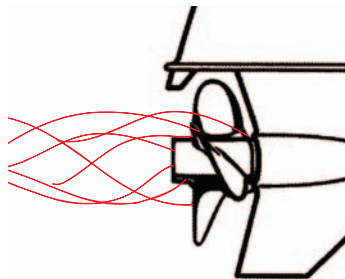
Aluminum vs. Stainless Steel?

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

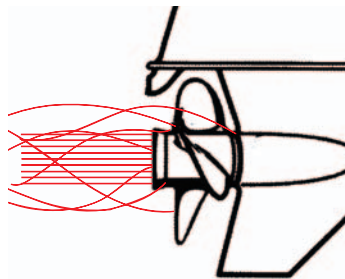
Stainless steel is more expensive, but much stronger and durable than aluminum. If you are looking for better performance than can be provided by your aluminum propeller, such as ultimate top speed or better acceleration, a stainless steel propeller may be required.



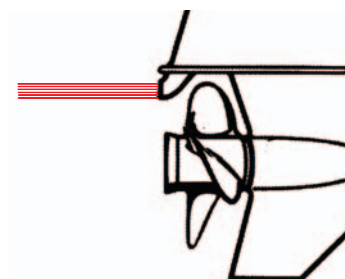
THRU-HUB EXHAUST
PROPELLERS



OVER-HUB EXHAUST
PROPELLERS



OVER/THRU-HUB EXHAUST
PROPELLERS



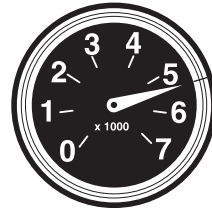
NON THRU-HUB EXHAUST
PROPELLERS

CHOOSING THE CORRECT PITCH PROPELLER

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

First, Determine Manufacturer's Recommended RPM

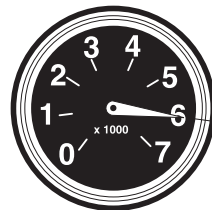
Find the manufacturer's recommended RPM range in the owner's manual or ask your dealer. A reference chart showing common engine applications is shown on Page A6 of this catalog.



Manufacturer's Recommended WOT RPM

Test for Maximum RPM

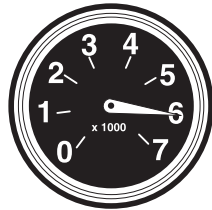
Using the existing propeller or a new propeller, make test runs to determine the maximum RPM and boat speed. Vary the trim angle for optimum performance.



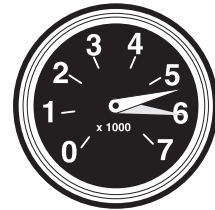
Test Run WOT RPM

RPM Higher Than Recommended

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



Increase in Prop Pitch Equals...

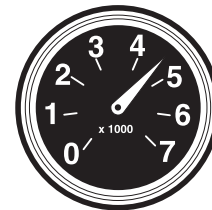


Decrease in RPM

RPM Lower Than Recommended

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

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



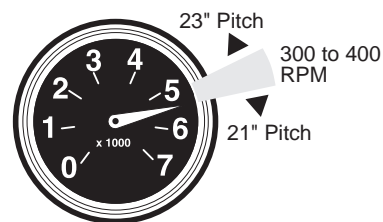
Decrease in Prop Pitch Equals...



Increase in RPM

Effect of Prop Pitch on RPM

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



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
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
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

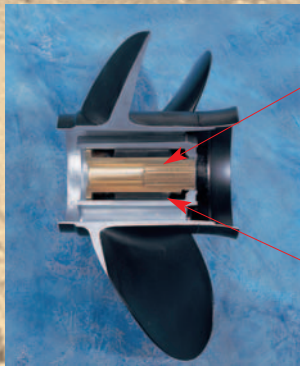
HP/Model	WOT RPM	Gear Ratio
5	4500-5400	1.91
6	4500-5500	1.91
DF9.9	4500-5500	1.91
DF15	5400-6000	1.91
DT25	4500-5500	1.91
DF25	4700-5300	2.09
DF30	5500-6100	2.09
DF40	5200-5800	2.09
DF50	5500-6500	2.09
DF60	4700-5300	2.42
DF70	5200-5800	2.42
DT85	5000-5600	2.08
DF90	4500-5500	2.59
DT100	5250-5750	2.08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



AMBUSH4
REPLACEMENT PROPELLERS



BALLISTIC
STAINLESS-STEEL PROPS

XHS™ (DROP-IN HUB) PROPELLERS



NEW

APOLLO XHS

SKI & TOW BOAT PROPELLERS

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

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



Ambush4



DYNA-JET CUPPED

SEE PRODUCT APPLICATION GUIDE ON PAGES A8 - 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

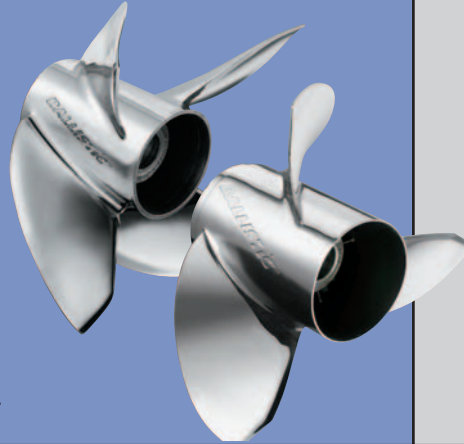
INFLATABLE	ALUMINUM	BASS BOAT	BAY BOAT	FLAT
		✓	✓	
✓	✓	✓		
			✓	
	✓		✓	

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"



Ambush⁴

Application Guide

Manufacturer	Application	Transmission	4-Blade	Ambush P/N
Brendella	Prior to 1992	1:1	13 x 13 LH 1"	635101
	After 1992	1:1	13 x 13 LH 1-1/8"	635103
	N/A	1.23:1	14 x 16 LH 1"	*
Centurian	Eclipse / Elite	1:1	13 x 13 LH 1-1/8"	635103
Correct Craft	Ski Nautique	1:1	13 x 13 RH 1"	*
	Ski Nautique	1.23:1	13 x 16 RH 1"	635300
	V-Drives	1.46:1	14 x 18 RH 1-1/8"	635402
	Barefoot w/454	1:1	14 x 14 RH 1"	*
Malibu	Prior to 1992	1:1	13 x 13 LH 1"	635101
	After 1992	1:1	13 x 13 LH 1-1/8"	635103
	Boats w/320 HP	1:1	13 x 14 LH 1-1/8"	*
	V-Drives	1.46:1	14 x 18 LH 1-1/8"	635403
	8.1 Litre	1.5:1	14 x 20 LH 1-1/8"	*
Mastercraft	N/A	1:1	13 x 13 LH 1"	635101
	N/A	1.5:1	14 x 18 LH 1-1/8"	635403
	Boats w/454	1:1	13 x 14 LH 1"	*
	1988 TBI Eng.	1:1	13 x 13 LH 1"	635101
	1998 TBI Eng.	1.5:1	14 x 20 LH 1-1/8"	*
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
	Boats w/454	1:1	N/A	*
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

*Call for availability.

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 Select the propeller **Diameter/Pitch** that best meets your vessel and usage. Refer to pages A2 - A6 for information on choosing the right propeller.
- 4 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.)
- 5 If **Vortex^{XHS}** or **Rapture^{XHS}** propellers are selected, the **XHSTM Hub Kit** indicated must be ordered.



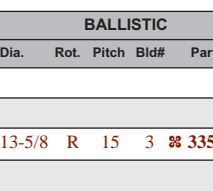





Unless otherwise noted: The XHSTM hub kit is sold separately from the propeller. See page 104 for XHSTM hub kit and miscellaneous hardware information. Vortex^{XHS} and Rapture^{XHS} propellers fit existing Mercury[®] Flo-Torq IITM hubs. Check existing hub for wear or damaged and replace if necessary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

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	

VORTEX ^{XHS} HIGH PERFORMANCE ALUMINUM PROPELLERS				RAPTURE ^{XHS}		NEW APOLLO ^{XHS} ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				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.	
13-3/4	R	15	992103	13-1/4	R 15 993103	13-3/8	R	15	99314	 <p>5 NEW Apollo XHS Stainless Steel</p>
13-1/4	R	17	992104	13-1/4	R 17 993104	13-3/8	L	15	99315	
13	R	19	992105	13-1/4	R 19 993105	13-1/4	R	17	993154	
12-3/4	R	21	992106	13-1/4	R 19 993105	13-1/4	R	19	993145	
				13-1/4	R 21 993106	13-3/8	L	19	993155	
				13-1/4	R 21 993107	13	R	21	993146	
 <p>993104 Rapture XHS</p>										

MICHIGAN MATCH REPLACEMENT PROPELLERS							BALLISTIC TM STAINLESS STEEL PROPS					Rubber Hub Bushing				
ALUMINUM & STAINLESS STEEL PROPELLERS							BALLISTIC									
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
14	R	11	3	AL	48-77338A40	031054										
14	R	13	3	AL	48-7734A40	031055										
13-3/4	R	15	3	AL	48-77342A40	031041										
13-3/4	R	15	3	SS	48-16986A5	033016										
13-1/4	R	17	3	AL	48-77344A40	031042										
13-1/4	R	17	3	SS	48-16988A5	033017										
13	R	19	3	AL	48-77346A40	031043										
13	R	19	3	SS	48-16990A40	033018										
12-3/4	R	21	3	AL	48-77348A40	031044										
13	R	21	3	SS	48-16992A40	033019										
12-1/2	R	23	3	AL	48-77350A40	031045										
 <p>031044</p>							 <p>BallisticTM High Performance Stainless Steel Propeller</p>									
							 <p>13-5/8 R 15 3 0335130</p>									
							 <p>13-1/2 R 17 3 0335131</p>									
							 <p>13-3/8 R 19 3 0335132</p>									
							 <p>13-1/8 R 21 3 0335133</p>									
							 <p>13-12 R 22 3 0335134</p>									
							 <p>13-1/2 R 24 3 0335135</p>									

⚠ To avoid damage or injury, replace standard trim tab with trim tab 822777A1 and thrust washer 13191A1 MUST be used.
 ▼ 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.

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



012001

No Hub


See ●

5 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

5 HP1965-68

● Hub is not included with propeller.

						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
8	L	7-1/2	3	AL	380104	● 012004



012004

No Hub


See ●

5.5-6 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

5.5-6 HP1954-65

● Hub is not included with propeller.

						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
7-3/4	R	6-1/2	3	AL		● 012067
8	R	7-1/4	2	AL	376968	● 012060



012067

No Hub

See ●


4-8 HORSEPOWER

Non-Thru Exhaust & Pin Drive

4 HP1980-83

4.5 HP Deluxe1986-95

6, 7.5, 8 HP1980 & Newer

						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
8-1/2	R	7	3	AL	391096	▶ 012031
8-1/2	R	9	3	AL	390237	012032




012032

Rubber
Hub
Bushing

10 HORSEPOWER

Non-Thru Hub Exhaust & 13 Tooth Spline

10 HP1951-57

						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9	R	8	3	AL	277595	012006



012006

Rubber
Hub
Bushing

● Hub is not included with propeller. ▶ LIMITED INVENTORY ITEMS.

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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
7-3/4	R	6-1/2	3	AL		012068
8-1/4	R	8	3	AL	387334	012008
8-1/4	R	9	3	AL	391534	012101
8	R	7-1/4	2	AL	376968	012005
8-1/4	R	8-1/2	3	AL	377635	012007



Rubber
Hub
Bushing

9.9-15 HORSEPOWER

Thru Hub Exhaust & 13 Tooth Spline

9.9-15 HP1974 & Newer 8, 9.9, 15 HP (4-Stroke)1995 & Newer



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10	R	5	3	AL	386669	012113
10	R	7	3	AL	398126	012112
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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9-1/4	R	7	3	AL	388294	012102
9	R	8	3	AL		012014
9	R	9	3	AL	379717	012109
9	R	10	3	AL	592959	012076
9	R	10	3	AL	383629	012011
9-1/4	R	11	3	AL	388088	012013
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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9	R	9	3	AL	389068	012021
9	R	9	3	AL		▶★ 011030
9	R	10	3	AL	389069	012015
9	R	10	3	AL		▶★ 011031
9-1/4	R	11	3	AL	388883	012016
9-1/4	R	12	3	AL	389944	012030



Rubber
Hub
Bushing

★ Indicates a cupped propeller.
 ▶ LIMITED INVENTORY ITEMS.

*** Engines offered in European Market only.

§ Commercial & Workhorse Applications.

25-30 HORSEPOWER (4-STROKE)

Thru Hub Exhaust & 10 Tooth Spline

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

VORTEX^{XHS™}				
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
121

Refer to pages 42-43
for more details.

MICHIGAN MATCH[™] REPLACEMENT PROPELLERS							
ALUMINUM & STAINLESS STEEL PROPS							
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	
10-1/4	R	11	3	AL	58100-96420-019	062012	
10-1/4	R	11	3	AL		▶★ 061006	
10-1/4	R	12	3	AL	58100-96430-019	062013	
10-1/4	R	13	3	AL	58100-96440-019	062014	



062013

BALLISTIC[™] STAINLESS STEEL PROPS				
BALLISTIC				
Dia.	Rot.	Pitch	Bld#	Part No.
10-1/8	R	13	3	305529
10-1/8	R	15	3	305530

**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 some models.

VORTEX^{XHS™}				
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
118

Refer to pages 42-43
for more details.

MICHIGAN MATCH[™] REPLACEMENT PROPELLERS							
ALUMINUM & STAINLESS STEEL PROPS							
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	
11-1/4	R	7	3	AL	387320	▶ 012053	
11-1/4	R	7	3	AL		▶★ 011032	
11	R	9	3	AL	386317	012054	
11	R	9	3	AL		▶★ 011033	
10-1/2	R	11	3	AL	175190	012055	
10	R	13	3	AL	175191	012056	
10	R	15	3	AL	390380	012057	



012056

BALLISTIC[™] STAINLESS STEEL PROPS				
BALLISTIC				
Dia.	Rot.	Pitch	Bld#	Part No.
10-1/8	R	13	3	305029
10-1/8	R	15	3	305030

**Rubber
Hub
Bushing**

★ 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		

MICHIGAN MATCH REPLACEMENT PROPELLERS						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10-1/2	R	10	3	AL	376738	012027
10-3/8	R	11-1/2	3	AL	385955	012023
10-3/8	R	12-1/2	3	AL	378580	012022
10-1/2	R	12	3	AL	380637	012024
10-3/8	R	13-1/2	3	AL	378579	012025
10-1/2	R	13	3	AL	384460	012028
10-3/8	R	14	3	AL	378571	012026



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
------------------------------------	------------------------------------

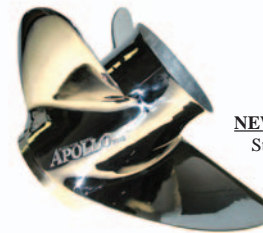
VORTEX ^{XHS} HIGH PERFORMANCE ALUMINUM PROPELLERS			
3-BLADE		4-BLADE	
Dia.	Rot.	Pitch	Part No.
		12	R 8 992401
		12	R 9 992402
		12	R 10 992403
10-3/8	R	11	992404
10-3/8	R	12	992405
10-3/8	R	13	992406
10-3/8	R	14	992407
10	R	15	992408
10	R	16	992409



992406

XHS Aluminum

NEW APOLLO ^{XHS} ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
STD 3-BLADE			
Dia.	Rot.	Pitch	Part No.
10-3/4	R	12	993405
10-1/2	R	13	993406
10-3/8	R	14	993407
10-1/8	R	15	993408



NEW Apollo XHS
Stainless Steel

Drop-In Hub

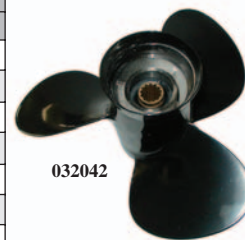
Use XHS™
Hub Kit
115

Refer to pages 42-43
for more details.

MICHIGAN MATCH REPLACEMENT PROPELLERS						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
12-1/4	R	10	3	AL		032045
12-1/4	R	10	3	AL	▶★	031072
12	R	11	3	AL		032044
12	R	11	3	AL	▶★	031073
11-3/4	R	12	3	AL		032043
11-1/2	R	13	3	AL		032042
11-1/4	R	14	3	AL		032041
11	R	15	3	AL		032040
10-3/4	R	16	3	AL		032039

RAPTURE			
3-BLD STAINLESS STEEL			
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



032042

Rubber
Hub
Bushing

§ 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
 48 HP1987-96
 50 HP 2 Cyl.1975 & Newer

60 HP 2 Cyl.1980-85
 75 HP 3 Cyl.1975-85

Sprint1986-92
 Formula E1986-92

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
11-3/4	R	13	992301				
11-3/4	R	15	992302				
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.

ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
13	R	11	3	AL	386907	012036
13	R	11	3	AL		★ 011034
12-1/2	R	13	3	AL	386909	012037
12-1/2	R	13	3	AL		★ 011035
12-1/2	R	13	3	SS	390849	▶ 013024
12-1/4	R	15	3	AL	386786	▶ 012038
12-1/4	R	15	3	AL	176421	★ 011027
12-1/4	R	15	3	SS	390850	▶ 013010
11-3/4	R	17	3	AL	386841	▶ 012039
11-3/4	R	17	3	AL	176422	★ 011028
11-3/4	R	17	3	SS	390851	▶ 013026
11	R	19	3	AL	176423	★ 011029
11-1/4	R	19	3	SS	390852	▶ 013032
11-1/2	R	19	3	AL	386908	▶ 012040



011027



Rapture Stainless Steel



BALLISTIC				
Dia.	Rot.	Pitch	Bld#	Part No.
12-3/8	R	15	3	325030
12	R	17	3	325031

Rubber
 Hub
 Bushing

★ Indicates a cupped propeller.

▶ LIMITED INVENTORY ITEMS.





45-75 HORSEPOWER • LARGE GEARCASE


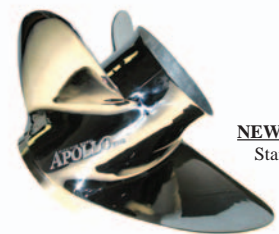
Thru Hub Exhaust & 13 Tooth Spline

40 HP (E-TEC)2004 & Newer
 45 HP 2 Cyl. Commercial1986 & Newer
 50 HP (E-TEC)2004 & Newer
 50 HP 2 Cyl. Commercial1977-79
 55 HP 2 Cyl. Commercial1980 & Newer
 65 HP 3 Cyl. Commercial1984 & Newer

50 HP 2 Cyl. Pleasure1971-74
 50 HP 3 Cyl. Pleasure1994 & Newer
 55 HP 3 Cyl. Pleasure1968-69
 60 HP 3 Cyl. Pleasure1970-71,1986 & Newer
 60 HP (E-TEC)2004 & Newer
 65 HP 3 Cyl. Pleasure1972-73


70 HP 3 Cyl. Pleasure1974 & Newer
 75 HP 3 Cyl. Pleasure1975-84
 75 HP (E-TEC)2004 & Newer
 60 HP (4-Stroke) +1998 & Newer
 70 HP (4-Stroke) +1998 & Newer

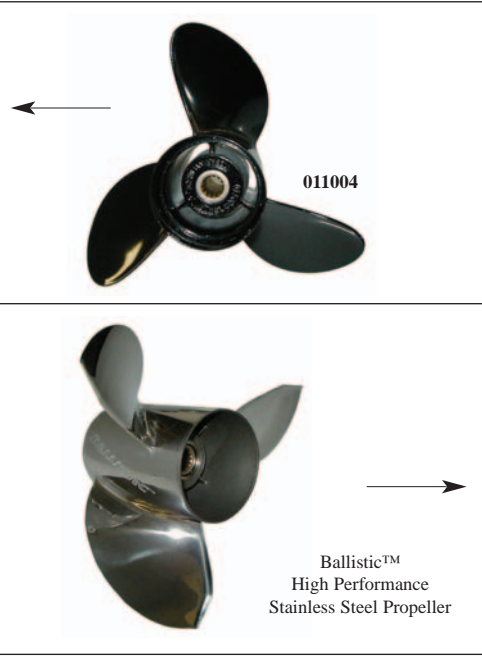
				HIGH PERFORMANCE ALUMINUM PROPELLERS				
3-BLADE					3-BLADE			
Dia.	Rot.	Pitch	Part No.		Dia.	Rot.	Pitch	Part No.
13-3/4	R	15	992103					
13-1/4	R	17	992104					
13	R	19	992105					
12-3/4	R	21	992106					


				ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				
3-BLADE					STD 3-BLADE			
Dia.	Rot.	Pitch	Part No.		Dia.	Rot.	Pitch	Part No.
					13-3/8	R	15	993143
					13-3/8	L	15	993153
					13-1/4	R	17	993144
					13-1/4	L	17	993154

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).

Drop-In Hub
 Use XHS™ Hub Kit **106 & 110**
 Refer to pages 42-43 for more details.

						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
14	R	10	4	AL		012074
14	R	10	4	AL		★ 011036
14	R	11	3	AL	382761	012047
14	R	11	3	AL		★ 011038
14	R	12	4	AL		012075
14	R	13	3	AL	391668	* 011001
13-3/4	R	15	3	AL	391198	* 011002
13-3/4	R	15	3	SS	389949	▶ 013028
13-1/4	R	17	3	AL	391199	* 011003
13-3/8	R	17	3	SS	389948	▶ 013030
14	R	17	3	AL	176214	* 011024
13	R	19	3	AL	390896	* 011004
13	R	19	3	SS	389510	▶ 013033
14	R	19	3	AL	176215	* 011025
12-3/4	R	21	3	AL	389788	* 011005
12-3/4	R	21	3	SS	389512	▶ 013034
14	R	21	3	AL	176216	* 011026




				
BALLISTIC				
Dia.	Rot.	Pitch	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

60-90 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

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

						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10-1/8	R	11	3	AL	377978	▶ 012044
10	R	12	3	AL	378039	▶ 012045



Rubber Hub Bushing

★ 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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
14	R	12	3	AL	382017	012090



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	



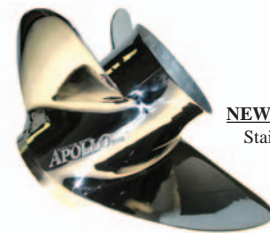
3-BLADE			
Dia.	Rot.	Pitch	Part No.
13-3/4	R	15	992103
13-1/4	R	17	992104
13	R	19	992105
12-3/4	R	21	992106



Vortex XHS™
Aluminum Propeller

3-BLADE			
Dia.	Rot.	Pitch	Part No.
13-3/8	R	15	993143
13-3/8	L	15	993153
13-1/4	R	17	993144
13-1/4	L	17	993154
13-1/4	R	19	993145
13-1/4	L	19	993155
13-1/4	R	21	993146
13	L	21	993156

STD 3-BLADE			
Dia.	Rot.	Pitch	Part No.
13-3/8	R	15	993143
13-3/8	L	15	993153
13-1/4	R	17	993144
13-1/4	L	17	993154
13-1/8	R	19	993145
13-1/8	L	19	993155
13	R	21	993146
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.

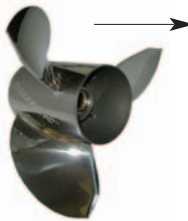


ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
14	R	10	4	AL		012074
14	R	10	4	AL		▶★ 011036
14	R	11	3	AL	382761	012047
14	R	11	3	AL		★ 011038
14	R	12	4	AL		012075
14	R	12	4	AL		▶★ 011037
14	R	13	3	AL	391668	011001
13-3/4	R	15	3	AL	391198	011002
13-1/4	R	17	3	AL	391199	011003
13-3/8	R	17	3	SS	389948	▶ 013030
14	R	17	3	AL	176214	011024
13	R	19	3	AL	390896	011004
14	R	19	3	AL	176215	011025
12-3/4	R	21	3	AL	389788	011005
12-3/4	R	21	3	SS	389512	013034
14	R	21	3	AL	176216	011026



011004



Ballistic™
High Performance
Stainless Steel Propeller








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	13-1/2	R	22	3	335034
					13-1/2	R	24	3	335035

Rubber
Hub
Bushing

★ 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																																																																																	
 HIGH PERFORMANCE ALUMINUM PROPELLERS				 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS																																																																																	
3-BLADE <table border="1"> <thead> <tr> <th>Dia.</th> <th>Rot.</th> <th>Pitch</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>13-3/4</td> <td>R</td> <td>15</td> <td>992103</td> </tr> <tr> <td>13-1/4</td> <td>R</td> <td>17</td> <td>992104</td> </tr> <tr> <td>13</td> <td>R</td> <td>19</td> <td>992105</td> </tr> <tr> <td>12-3/4</td> <td>R</td> <td>21</td> <td>992106</td> </tr> </tbody> </table>		Dia.	Rot.	Pitch	Part No.	13-3/4	R	15	992103	13-1/4	R	17	992104	13	R	19	992105	12-3/4	R	21	992106	 <p>Rapture XHS™ Stainless Steel Propeller</p>		 <p>NEW Apollo XHS Stainless Steel</p>																																																													
Dia.	Rot.	Pitch	Part No.																																																																																		
13-3/4	R	15	992103																																																																																		
13-1/4	R	17	992104																																																																																		
13	R	19	992105																																																																																		
12-3/4	R	21	992106																																																																																		
		3-BLADE <table border="1"> <thead> <tr> <th>Dia.</th> <th>Rot.</th> <th>Pitch</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>13-3/8</td> <td>R</td> <td>15</td> <td>993143</td> </tr> <tr> <td>13-3/8</td> <td>L</td> <td>15</td> <td>993153</td> </tr> <tr> <td>13-1/4</td> <td>R</td> <td>17</td> <td>993144</td> </tr> <tr> <td>13-1/4</td> <td>L</td> <td>17</td> <td>993154</td> </tr> <tr> <td>13-1/4</td> <td>R</td> <td>19</td> <td>993105</td> </tr> <tr> <td>13-1/8</td> <td>R</td> <td>19</td> <td>993145</td> </tr> <tr> <td>13-1/8</td> <td>L</td> <td>19</td> <td>993155</td> </tr> <tr> <td>13-1/4</td> <td>R</td> <td>21</td> <td>993106</td> </tr> <tr> <td>13</td> <td>R</td> <td>21</td> <td>993146</td> </tr> <tr> <td>13</td> <td>L</td> <td>21</td> <td>993156</td> </tr> </tbody> </table>		Dia.	Rot.	Pitch	Part No.	13-3/8	R	15	993143	13-3/8	L	15	993153	13-1/4	R	17	993144	13-1/4	L	17	993154	13-1/4	R	19	993105	13-1/8	R	19	993145	13-1/8	L	19	993155	13-1/4	R	21	993106	13	R	21	993146	13	L	21	993156	STD 3-BLADE <table border="1"> <thead> <tr> <th>Dia.</th> <th>Rot.</th> <th>Pitch</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>13-3/8</td> <td>R</td> <td>15</td> <td>993143</td> </tr> <tr> <td>13-3/8</td> <td>L</td> <td>15</td> <td>993153</td> </tr> <tr> <td>13-1/4</td> <td>R</td> <td>17</td> <td>993144</td> </tr> <tr> <td>13-1/4</td> <td>L</td> <td>17</td> <td>993154</td> </tr> <tr> <td>13-1/8</td> <td>R</td> <td>19</td> <td>993145</td> </tr> <tr> <td>13-1/8</td> <td>L</td> <td>19</td> <td>993155</td> </tr> <tr> <td>13</td> <td>R</td> <td>21</td> <td>993146</td> </tr> <tr> <td>13</td> <td>L</td> <td>21</td> <td>993156</td> </tr> </tbody> </table>		Dia.	Rot.	Pitch	Part No.	13-3/8	R	15	993143	13-3/8	L	15	993153	13-1/4	R	17	993144	13-1/4	L	17	993154	13-1/8	R	19	993145	13-1/8	L	19	993155	13	R	21	993146	13	L	21	993156
Dia.	Rot.	Pitch	Part No.																																																																																		
13-3/8	R	15	993143																																																																																		
13-3/8	L	15	993153																																																																																		
13-1/4	R	17	993144																																																																																		
13-1/4	L	17	993154																																																																																		
13-1/4	R	19	993105																																																																																		
13-1/8	R	19	993145																																																																																		
13-1/8	L	19	993155																																																																																		
13-1/4	R	21	993106																																																																																		
13	R	21	993146																																																																																		
13	L	21	993156																																																																																		
Dia.	Rot.	Pitch	Part No.																																																																																		
13-3/8	R	15	993143																																																																																		
13-3/8	L	15	993153																																																																																		
13-1/4	R	17	993144																																																																																		
13-1/4	L	17	993154																																																																																		
13-1/8	R	19	993145																																																																																		
13-1/8	L	19	993155																																																																																		
13	R	21	993146																																																																																		
13	L	21	993156																																																																																		
<p>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.</p>																																																																																					

Drop-In Hub

Use XHS™
Hub Kit
125
&
126

Use Gearcase Adapter Ring supplied with propeller.

Refer to pages 42-43 for more details.

 ALUMINUM & STAINLESS STEEL PROPS							 <p>101033</p>						<p>Rubber Hub Bushing</p>																																																																																																														
								BALLISTIC		BALLISTIC XL																																																																																																																	
<table border="1"> <thead> <tr> <th>Dia.</th> <th>Rot.</th> <th>Pitch</th> <th>Bld#</th> <th>Mat'l</th> <th>OEM Part No.</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>R</td> <td>11</td> <td>3</td> <td>AL</td> <td></td> <td>101036</td> </tr> <tr> <td>13-5/8</td> <td>R</td> <td>13</td> <td>3</td> <td>AL</td> <td></td> <td>101031</td> </tr> <tr> <td>13-1/2</td> <td>R</td> <td>15</td> <td>3</td> <td>AL</td> <td></td> <td>101032</td> </tr> <tr> <td>13-3/4</td> <td>R</td> <td>15</td> <td>3</td> <td>SS</td> <td></td> <td>103025</td> </tr> <tr> <td>13-1/4</td> <td>R</td> <td>17</td> <td>3</td> <td>AL</td> <td>58100-90J00-019</td> <td>101033</td> </tr> <tr> <td>13-1/4</td> <td>R</td> <td>17</td> <td>3</td> <td>SS</td> <td></td> <td>103026</td> </tr> <tr> <td>13</td> <td>R</td> <td>19</td> <td>3</td> <td>AL</td> <td>58100-90J10-019</td> <td>101034</td> </tr> <tr> <td>13</td> <td>R</td> <td>19</td> <td>3</td> <td>SS</td> <td></td> <td>103027</td> </tr> <tr> <td>12-5/8</td> <td>R</td> <td>21</td> <td>3</td> <td>AL</td> <td>58100-90J20-019</td> <td>101035</td> </tr> </tbody> </table>								Dia.	Rot.	Pitch	Bld#	Mat'l		OEM Part No.	Part No.	14	R	11	3	AL		101036	13-5/8	R	13	3	AL		101031	13-1/2	R	15	3	AL		101032	13-3/4	R	15	3	SS		103025	13-1/4	R	17	3	AL	58100-90J00-019	101033	13-1/4	R	17	3	SS		103026	13	R	19	3	AL	58100-90J10-019	101034	13	R	19	3	SS		103027	12-5/8	R	21	3	AL	58100-90J20-019	101035	<table border="1"> <thead> <tr> <th>Dia.</th> <th>Rot.</th> <th>Pitch</th> <th>Bld#</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>13-5/8</td> <td>R</td> <td>15</td> <td>3</td> <td>335930</td> </tr> <tr> <td>13-1/2</td> <td>R</td> <td>17</td> <td>3</td> <td>335931</td> </tr> <tr> <td>13-3/8</td> <td>R</td> <td>19</td> <td>3</td> <td>335932</td> </tr> <tr> <td>13-1/8</td> <td>R</td> <td>21</td> <td>3</td> <td>335933</td> </tr> </tbody> </table>		Dia.	Rot.	Pitch	Bld#	Part No.	13-5/8	R	15	3	335930	13-1/2	R	17	3	335931	13-3/8	R	19	3	335932	13-1/8	R	21	3	335933	<table border="1"> <thead> <tr> <th>Dia.</th> <th>Rot.</th> <th>Pitch</th> <th>Bld#</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>13-1/2</td> <td>R</td> <td>22</td> <td>3</td> <td>335934</td> </tr> <tr> <td>13-1/2</td> <td>R</td> <td>24</td> <td>3</td> <td>335935</td> </tr> </tbody> </table>			Dia.	Rot.	Pitch	Bld#	Part No.	13-1/2	R	22	3	335934	13-1/2	R	24	3	335935
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.																																																																																																																					
14	R	11	3	AL		101036																																																																																																																					
13-5/8	R	13	3	AL		101031																																																																																																																					
13-1/2	R	15	3	AL		101032																																																																																																																					
13-3/4	R	15	3	SS		103025																																																																																																																					
13-1/4	R	17	3	AL	58100-90J00-019	101033																																																																																																																					
13-1/4	R	17	3	SS		103026																																																																																																																					
13	R	19	3	AL	58100-90J10-019	101034																																																																																																																					
13	R	19	3	SS		103027																																																																																																																					
12-5/8	R	21	3	AL	58100-90J20-019	101035																																																																																																																					
Dia.	Rot.	Pitch	Bld#	Part No.																																																																																																																							
13-5/8	R	15	3	335930																																																																																																																							
13-1/2	R	17	3	335931																																																																																																																							
13-3/8	R	19	3	335932																																																																																																																							
13-1/8	R	21	3	335933																																																																																																																							
Dia.	Rot.	Pitch	Bld#	Part No.																																																																																																																							
13-1/2	R	22	3	335934																																																																																																																							
13-1/2	R	24	3	335935																																																																																																																							

▶ LIMITED INVENTORY ITEMS



90-300 HORSEPOWER • V-6 GEARCASE (1991 & NEWER)

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".

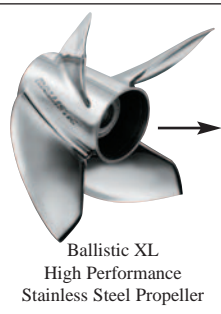
See Page 42 for more details.

VORTEX ^{XHS} HIGH PERFORMANCE ALUMINUM PROPELLERS				CAPTURE ^{XHS}				APOLLO ^{NEW} ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS																							
3-BLADE				4-BLADE				3-BLADE				STD 3-BLADE				LG. DIAMETER 3-BLADE				4-BLADE											
Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.				
15-1/4	R	15	992002					14-1/4	R	15	993002	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	993003	14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203								
								14-1/4	L	17	993013	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	14-1/4	R	19	993004	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	14-1/4	R	21	993005	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	R	23	993006	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	R	22	993216								
								14-1/4	R	25	993007																				
								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.

MICHIGAN MATCH REPLACEMENT PROPELLERS						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
15-1/2	R	10	3	AL		011015
15-1/2	R	13	3	AL	391536	011016
15-1/2	R	15	3	AL	391535	011006
15	L	15	3	SS	174927	013051
15	R	17	3	AL	391200	011007
15	R	17	3	SS	391290	013044
14-1/2	R	19	3	AL	391201	011008
14-1/2	L	19	3	SS	390821	013045
14-1/4	R	21	3	AL	391202	011009
14-1/4	L	21	3	SS	390822	013047
14-1/4	R	23	3	AL	391203	011010
14-1/4	R	23	3	SS	389019	013050
High Performance 4-Blade Propellers						
13-3/4	R	22	4	SS		013036
13-3/4	R	24	4	SS		013038



BALLISTIC™ STAINLESS STEEL PROPS									
BALLISTIC				BALLISTIC XL					
Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
14-7/8	R	15	3	345031					
14-3/4	R	17	3	345032					
14-3/4	L	17	3	345062					
14-1/2	R	19	3	345033					
14-1/2	L	19	3	345063					
14-3/8	R	21	3	345034	14-1/2	R	22	3	345041
14-3/8	L	21	3	345064					
14-1/4	R	23	3	345035	14-1/2	R	24	3	345037
					14-1/2	R	26	3	345038
					13-3/4	R	23	4	**435035
					13-3/4	R	25	4	**435036
					13-3/4	R	27	4	**435037

Rubber Hub Bushing

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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
7-1/2	L	4-1/2	2	AL	48-FP19	072017



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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
7-1/4	R	5-1/2	3	AL	48-FP488	072123



072123

Rubber Hub Bushing

6-10 HORSEPOWER

Non-Thru Hub Exhaust & 14 Tooth / Pin Drive

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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10-3/8	R	10	3	AL	FP-278	072014



072014

Rubber Hub Bushing

9.9-15 HORSEPOWER

Non-Thru Hub Exhaust & 10 Tooth Spline

9.9 HP1968-98 12 HP1978-79 15 HP1980-88
 10 HP1974-78 12.9 HP1968-75



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
8-1/8	R	8-1/4	3	AL	FP-408	072026
8-1/4	R	6	3	AL	FP-395	072121
8-1/4	R	8-1/4	2	AL	48-FP70	072024
8	R	9	3	AL	FP-472	072122



072026

Rubber Hub Bushing

25 HORSEPOWER

Thru Hub Exhaust & 10 Tooth Spline

25 HP 3 Cyl.1995-98



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 **120**

Refer to pages 42-43 for more details.



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10-3/8	R	11	3	AL	48-19638A40	031049
10-3/8	R	13	3	AL	48-19640A40	031048
10-1/4	R	14-1/2	3	AL	48-19642A40	031047



031049



BALLISTIC XL

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

Rubber Hub Bushing

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		

MICHIGAN MATCH REPLACEMENT PROPELLERS						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10-3/8	R	10	3	AL	48-819337A40	072014
10-3/8	R	11-1/2	3	AL	48-819336A40	072131
10-3/8	R	12-1/2	3	AL	48-819335A40	072132
10-3/8	R	13-1/2	3	AL	48-819334A4	072133
10-3/8	R	14-1/2	3	AL		072134



072014

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
------------------------	--------------------	--------------------

VORTEX ^{XHS}				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
10-3/8	R	11	992404				
10-3/8	R	12	992405				
10-3/8	R	13	992406				
10-3/8	R	14	992407				
10	R	15	992408				
10	R	16	992409				



Vortex XHS
Aluminum 4-Blade
Propeller

NEW APOLLO ^{XHS}				ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
STD 3-BLADE							
Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.
10-3/4	R	12	993405				
10-1/2	R	13	993406				
10-3/8	R	14	993407				
10-1/8	R	15	993408				



NEW Apollo XHS
Stainless Steel

Drop-In Hub

Use XHS™
Hub Kit
114

Refer to pages 42-43
for more details.

MICHIGAN MATCH REPLACEMENT PROPELLERS						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
12-1/2	R	8	3	AL	48-42738A10	032141
12-1/2	R	8	3	AL		★ 031070
11-1/4	R	10	3	AL	48-73132A40	031015
12	R	10-1/2	3	AL	48-42740A10	032142
12	R	10-1/2	3	AL		★ 031071
10-7/8	R	11	3	AL	48-85632A40	031053
10-3/4	R	12	3	AL	48-816702A40	031056
10-5/8	R	12	3	AL	48-73134A40	031016
10-1/2	R	13	3	AL	48-816704A40	031057
10-3/8	R	13	3	AL	48-73136A40	031017
10-3/8	R	14	3	AL	48-816706A40	031058
10-1/4	R	14	3	AL	48-73138A40	031018
10-1/4	R	14	3	SS	48-76230A5	▶ 033028
10-1/8	R	15	3	AL	48-73140A40	031019
10	R	17	3	AL	48-73144A40	031020

RAPTURE			
Dia.	Rot.	Pitch	Part No.
10-1/2	R	10	033088
10-1/2	R	12	033089
10-1/2	R	13	033090
10-1/2	R	14	033091
10-1/2	R	15	033092



031017



Ballistic™
High Performance
Stainless Steel
Propeller

BALLISTIC TM STAINLESS STEEL PROPS				
Dia.	Rot.	Pitch	Bld#	Part No.
10-1/8	R	13	3	395129
10-1/8	R	15	3	395130

Rubber
Hub
Bushing

❖❖ 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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
13-1/8	R	15	3	AL	FP-389	072032
13-1/8	R	17	3	AL	48-FP372	072033



Rubber Hub Bushing

70-140 HORSEPOWER

Non-Thru Hub Exhaust & 15 Tooth Spline

70-140HP❖1977-89



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
14	R	13	3	AL	FPS501	072054
13-1/8	R	15	3	AL	FPS519	072055
13-1/4	R	17	3	AL	FPS623	072107
13	R	19	3	AL	FPS625	072108
13	R	21	3	AL	FPS526	072109



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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
13-1/2	R	15	3	AL	48-FP669-1	* 071035
13-1/2	R	15	3	AL	48-FP692-1	072127
13-1/2	R	17	3	AL	48-FP685-1	* 071036
13-1/2	R	17	3	AL	48-FP685-1	072128
13	R	19	3	AL	48-FP686-1	* 071037
13	R	19	3	AL	48-FP686-1	072129
12-5/8	R	21	3	AL	48-FP694	* 071038
13	R	21	3	SS	FP69	073010



Rubber Hub Bushing

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

Thru Hub Exhaust & 15 Tooth Spline

75-150 HP1995 & Newer



HIGH PERFORMANCE ALUMINUM PROPELLERS



ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS

Drop-In Hub

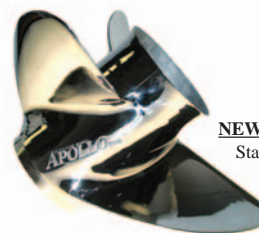
3-BLADE			
Dia.	Rot.	Pitch	Part No.
13-3/4	R	15	992103
13-1/4	R	17	992104
13	R	19	992105
12-3/4	R	21	992106



Vortex XHS Aluminum Propeller

3-BLADE			
Dia.	Rot.	Pitch	Part No.
13-1/4	R	19	993105
13-1/4	R	21	993106

STD 3-BLADE			
Dia.	Rot.	Pitch	Part No.
13-3/8	R	15	993143
13-3/8	L	15	993153
13-1/4	R	17	993144
13-1/4	L	17	993154
13-1/8	R	19	993145
13-1/8	L	19	993155
13	R	21	993146
13	L	21	993156



NEW Apollo XHS Stainless Steel

Use XHS™ Hub Kit **102**

Use Gearcase Adapter Ring supplied with propeller.

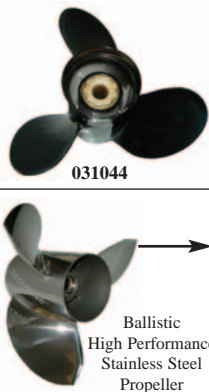
Refer to pages 42-43 for more details.

❖ 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

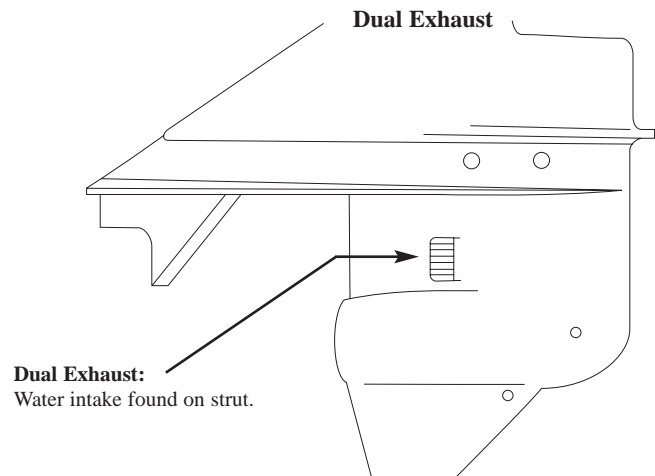
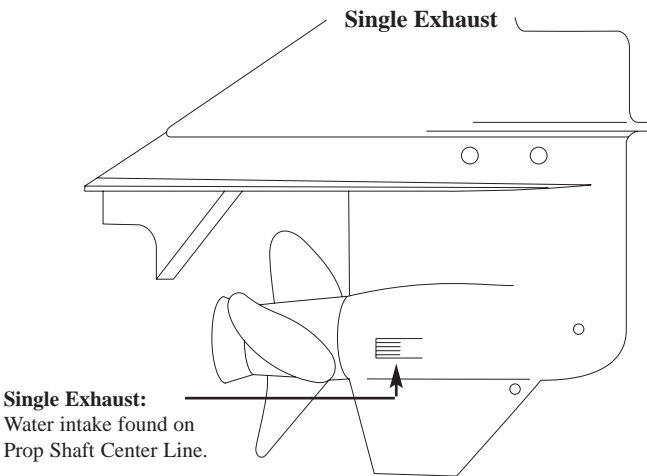
Thru Hub Exhaust & 15 Tooth Spline

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

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.	
14	R	11	3	AL	48-77338A40	031054	 <p>Ballistic High Performance Stainless Steel Propeller</p>										
14	R	13	3	AL	48-7734A40	031055											
13-3/4	R	15	3	AL	48-77342A40	031041											
13-1/4	R	17	3	AL	48-77344A40	031042											
13-1/4	R	17	3	SS	48-16988A5	▶ 033017											
13	R	19	3	AL	48-77346A40	031043											
13	R	19	3	SS	48-16990A40	▶★ 033018											
12-3/4	R	21	3	AL	48-77348A40	031044											
13	R	21	3	SS	48-16992A40	▶★ 033019											
12-1/2	R	23	3	AL	48-77350A40	031045											
							13-1/2	R	17	3	335131						
							13-3/8	R	19	3	335132						
							13-1/8	R	21	3	335133	13-12	R	22	3	335134	
												13-1/2	R	24	3	335135	

† 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. ▶ LIMITED INVENTORY ITEMS.

Single vs. Dual Exhaust



7.5-10 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9	R	8	3	AL		012014
9	R	8	3	AL		012006
9	R	9	3	AL	58130-881-840ZA	012109
9	R	10	3	AL		012011
9	R	10	3	AL		012076
9-1/4	R	11	3	AL		012013
9-1/4	R	12	3	AL		012010



Rubber
Hub
Bushing

9.9-15 HORSEPOWER

Thru Hub Exhaust & 8 Tooth Spline

BF 9.91988 & Newer BF 15All Years



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9-3/4	R	6-1/2	3	AL	58110-ZV4-DT15	112004
9-1/4	R	8	3	AL		102003
9-1/4	R	9	3	AL	58130-ZV4-701ZA	102004
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

25 HPAll Years 30 HPAll Years



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

35-50 HORSEPOWER


Thru Hub Exhaust & 13 Tooth Spline

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

 HIGH PERFORMANCE ALUMINUM PROPELLERS				 ULTIMATE PERFORMANCE STAINLESS STEEL 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
10-3/8	R	11	992404				
10-3/8	R	12	992405				
10-3/8	R	13	992406				
10-3/8	R	14	992407				
10	R	15	992408				
10	R	16	992409				







992406
Vortex XHS Aluminum Propeller



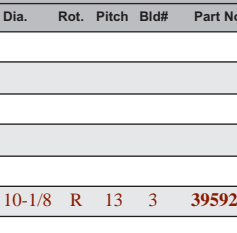
NEW Apollo XHS Stainless Steel

Drop-In Hub
 Use XHS™ Hub Kit **113**
 Refer to pages 42-43 for more details.

 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.
12-1/4	R	10	3	AL	58130-ZV5-860ZA	032045									
12-1/4	R	10	3	AL		▶★ 031072									
12	R	11	3	AL		032044									
12	R	11	3	AL		▶★ 031073									
11-3/4	R	12	3	AL	58130-ZV5-850ZA	032043	10-1/2	R	12	033094					
11-1/2	R	13	3	AL	58130-ZV5-000ZA	032042	10-1/2	R	13	033095					
11-1/4	R	14	3	AL		032041	10-1/2	R	14	033096					
11	R	15	3	AL	58130-ZV5-870ZA	032040	10-1/2	R	15	033097					
10-3/4	R	16	3	AL		032039					10-1/8	R	13	3	395929
											10-1/8	R	15	3	395930



032042







Rubber Hub Bushing

75-130 HORSEPOWER


Thru Hub Exhaust & 15 Tooth Spline

75 HP1995 & Newer 115 HP1998 & Newer 130 HP1998 & Newer
 90 HP1995 & Newer

 HIGH PERFORMANCE ALUMINUM PROPELLERS								 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.
13-3/4	R	15	992103					13-3/8	R	15	993143				
								13-3/8	L	15	993153				
13-1/4	R	17	992104					13-1/4	R	17	993144				
								13-1/4	L	17	993154				
13	R	19	992105					13-1/8	R	19	993145				
								13-1/8	L	19	993155				
12-3/4	R	21	992106					13	R	21	993146				
								13	L	21	993156				






Rapture XHS Performance Stainless Steel




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.

 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.				
14	R	11	3	AL	58130-ZW1-W01ZA	031054														
14	R	13	3	AL	58130-ZW1-W11ZA	031055														
13-3/4	R	15	3	AL	58130-ZW1W21ZA	031041						13-5/8	R	15	3	335130				
13-1/4	R	17	3	AL	58130-ZW1-W31ZA	031042						13-1/2	R	17	3	335131				
13-1/4	R	17	3	SS	58130-ZW1-V01	▶ 033017														
13	R	19	3	AL	58130-ZW1-W61ZA	031043						13-3/8	R	19	3	335132				
13	R	19	3	SS	58130-ZW1-V11	▶ 033018														
12-3/4	R	21	3	AL	58130-ZW1-W41ZA	031044						13-1/8	R	21	3	335133				
13	R	21	3	SS	58130-ZW1-V31	▶ 033019														
12-1/2	R	23	3	AL	58130-ZW1-W51ZA	031045										13-1/2	R	24	3	335135






Ballistic™ High Performance Stainless Steel Propeller

Rubber Hub Bushing

200, 225 HORSEPOWER Thru Hub Exhaust & 15 Tooth Spline



135 HP2004 & Newer 200 HP2003 & Newer 225 HP2003 & Newer
 150 HP2004 & 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					14-1/4	R	15	993002	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	993003	14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203								
								14-1/4	L	17	993013	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	14-1/4	R	19	993004	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	14-1/4	R	21	993005	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	993056	14-3/4	L	21	993035	14-1/8	L	20	993215								
14	R	23	992006					14-1/4	R	23	993006	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	R	22	993216								
								14-1/4	R	25	993007																				
								14-1/4	L	25	993017																				

Drop-In Hub

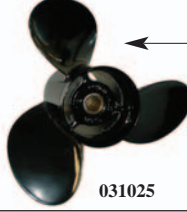
Use XHS™
Hub Kit
107

Refer to pages 42-43
for more details.

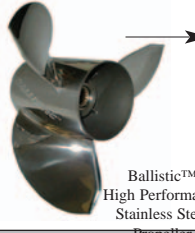
 ALUMINUM & STAINLESS STEEL PROPS							 BALLISTIC™ STAINLESS STEEL PROPS									
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
16	R	11	3	AL	48-78112A40	031021										
16	R	12	3	AL	48-16436A40	031063										
16	R	13	3	AL	48-78114A40	031022										
16	R	14	3	AL	48-16438A40	031050										
15-1/4	R	15	3	AL	48-78116A40	031023										
16	R	16	3	AL	48-16440A40	031051										
14-1/2	R	17	3	AL	48-78118A40	031024										
15	R	17	3	AL	48-832828A45	031064										
15-1/2	R	18	3	AL	48-11324A45	031052										
14	R	19	3	AL	48-78120A40	031025										
14	R	19	3	SS	48-16316A4	033004										
14-1/2	R	19	3	AL	48-382830A45	031065										
13-3/4	R	21	3	AL	48-78122A40	031026										
14-1/4	R	21	3	AL	48-832832A45	031066										
13-1/2	R	23	3	AL	48-78124A40	031027										
13-1/2	R	23	3	SS	48-16320A4	033006										
14	R	23	3	AL	48-832834A45	031068										
13-3/8	R	25	3	AL	48-78126A40	031067										
High Performance 4 Blade Propellers																
Stainless Steel Performance Propellers for Offshore or Heavy Boats																
15-1/4	L	19	3	SS	48-13701A41	033029						13-3/4	R	23	4	435135
14-5/8	L	23	3	SS	48-13705A41	033033						13-3/4	R	25	4	435136
												13-3/4	R	27	4	435137



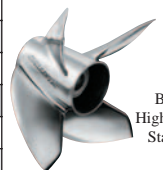
NEW
Apollo XHS Stainless Steel V-6 Model



031025



Ballistic™
High Performance
Stainless Steel
Propeller



Ballistic XL
High Performance
Stainless Steel
Propeller

Rubber
Hub
Bushings

▶ LIMITED INVENTORY ITEMS.

★

Indicates a cupped propeller.

4-10 HORSEPOWER
Thru Hub Exhaust & 8 Tooth Spline

MODEL 401973-75 MODEL 451973-81



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9	R	9	2	AL	48-47922A10	032021
9	R	10	2	AL	48-47926A10	032019
9	R	7	3	AL	48-47670A10	032020



Rubber
Hub
Bushing

6-15 HORSEPOWER
Thru Hub Exhaust & 8 Tooth Spline

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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9-3/4	R	5-1/2	3	AL	48-828148A12	032060
9-3/4	R	6-1/2	3	AL	48-828150A12	032058
9-1/4	R	7	3	AL	48-828152A12	032056
9	R	8	3	AL	48-828154A12	032054
9	R	9	3	AL	48-828156A12	032052
9	R	10-1/2	3	AL	48-828158A12	032050



Rubber
Hub
Bushing

MERC 20
Thru Hub Exhaust & 8 Tooth Spline

Merc. 201963-81



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9-7/8	R	9	2	AL	48-33480A1	032135
10	R	9	3	AL	48-86962A4	032136



Rubber
Hub
Bushing

9.9-25 HORSEPOWER
Thru Hub Exhaust & 10 Tooth Spline

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



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
120

Refer to pages 42-43
for more details.



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10-3/8	R	11	3	AL	48-19638A40	031049
10-3/8	R	13	3	AL	48-19640A40	031048
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

15-25 HORSEPOWER • MARINER

Non-Thru Hub & Pin Drive

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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9-1/4	R	7	3	AL	48-96628	012102
9	R	10	3	AL	48-96625	012011
9-1/4	R	11	3	AL	48-96623	012012
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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9-7/8	R	9	3	AL	48-81647	022001
9-7/8	R	10-1/2	3	AL	48-81649	022002
9-3/8	R	12	3	AL	48-82826	022003



Rubber
Hub
Bushing

MARK 35-58A, MODELS 300-500 (THRU 1961)

Thru Hub Exhaust & 11 Tooth Spline

Mark 35A, 50, 551956-61

Mark 58, 58A

Models 300, 350, 400, 500



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10	R	10	3	AL	48-22575A2	032077



Rubber
Hub
Bushing

MODELS 300-500 (1962-69)

Thru Hub Exhaust & 11 Tooth Spline

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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10-1/4	R	10	3	AL	48-33774A1	032084
10-1/4	R	11	3	AL	48-38098A1	032085
10-1/4	R	12	3	AL	48-38094A1	032086
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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10-1/4	R	13	3	AL	48-56236A1	032099


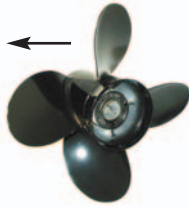






Rubber
Hub
Bushing

▶ 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				
 HIGH PERFORMANCE ALUMINUM PROPELLERS				 ←				 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				Drop-In Hub Use XHS™ Hub Kit 114 Refer to pages 42-43 for more details.
3-BLADE				4-BLADE				STD 3-BLADE				
Di.	Rot.	Pitch	Part No.	Di.	Rot.	Pitch	Part No.	Di.	Rot.	Pitch	Part No.	
				12	R	8	992401					
				12	R	9	992402					
				12	R	10	992403					
10-3/8	R	11	992404					10-3/4	R	12	993405	
10-3/8	R	12	992405					10-1/2	R	13	993406	
10-3/8	R	13	992406					10-3/8	R	14	993407	
10-3/8	R	14	992407					10-1/8	R	15	993408	
10	R	15	992408									
10	R	16	992409									

 ALUMINUM & STAINLESS STEEL PROPS											 BALLISTIC					Rubber Hub Bushing Use OEM fwd washer 65758 aft washer 62124
Di.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Di.	Rot.	Pitch	Part No.	Di.	Rot.	Pitch	Bld#	Part No.	
12-1/4	R	10	3	AL	48-61812A1	032045										
12-1/4	R	10	3	AL		▶★ 031072										
12	R	11	3	AL	48-61814A1	032044										
12	R	11	3	AL		▶★ 031073										
11-3/4	R	12	3	AL	48-61816A1	032043	10-1/2	R	12	033094						
11-1/2	R	13	3	AL	48-61818A1	032042	10-1/2	R	13	033095	10-1/8	R	13	3	395929	
11-1/4	R	14	3	AL	48-61820A1	032041	10-1/2	R	14	033096						
11	R	15	3	AL	48-61822A1	032040	10-1/2	R	15	033097	10-1/8	R	15	3	395930	
10-3/4	R	16	3	AL	48-61824A1	032039										

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	




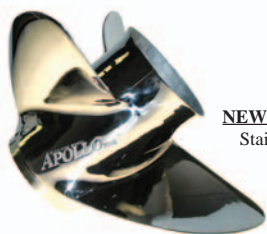
 ALUMINUM & STAINLESS STEEL PROPS											 BALLISTIC					Rubber Hub Bushing Use OEM fwd washer 73345A1 tab washer 14-76281
Di.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Di.	Rot.	Pitch	Part No.	Di.	Rot.	Pitch	Bld#	Part No.	
12-1/2	R	8	3	AL	48-42738A10	032141										
12-1/2	R	8	3	AL		▶★ 031070										
11-1/4	R	10	3	AL	48-73132A40	031015										
12	R	10-1/2	3	AL	48-42740A10	032142										
12	R	10-1/2	3	AL		▶★ 031071										
10-7/8	R	11	3	AL	48-85632A40	031053										
10-3/4	R	12	3	AL	48-816702A40	031056	10-1/2	R	12	033089						
10-5/8	R	12	3	AL	48-73134A40	031016										
10-1/2	R	13	3	AL	48-816704A40	031057	10-1/2	R	13	033090	10-1/8	R	13	3	395129	
10-3/8	R	13	3	AL	48-73136A40	031017										
10-3/8	R	14	3	AL	48-816706A40	031058	10-1/2	R	14	033091						
10-1/4	R	14	3	AL	48-73138A40	031018										
10-1/4	R	14	3	SS	48-76230A5	▶ 033028										
10-1/8	R	15	3	AL	48-73140A40	031019	10-1/2	R	15	033092	10-1/8	R	15	3	395130	
10	R	17	3	AL	48-73144A40	031020										

★ Indicates a cupped propeller.

▶ LIMITED INVENTORY ITEMS.





25-80 HORSEPOWER Thru Hub Exhaust & 13 Tooth Spline




MODEL 402-500-7001977-84	40 HP (2 & 4-Stroke) (Not Bigfoot) . .1977 & Newer	55 HP (Mercury/Sea Pro/Marathon) . .1995 & Newer
25 HP Bigfoot (4-Stroke)1999 & 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	

 HIGH PERFORMANCE ALUMINUM PROPELLERS				 <p>992406 Vortex XHS™ Aluminum Propeller</p>	 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				 <p>NEW Apollo XHS Stainless Steel</p>	<p>Drop-In Hub</p> <p>Use XHS™ Hub Kit 114</p> <p>Refer to pages 42-43 for more details.</p>										
3-BLADE Dia. Rot. Pitch Part No.		4-BLADE Dia. Rot. Pitch Part No.			STD 3-BLADE Dia. Rot. Pitch Part No.															
				12	R	8	992401													
				12	R	9	992402													
				12	R	10	992403													
10-3/8	R	11	992404					10-3/4	R	12	993405									
10-3/8	R	12	992405					10-1/2	R	13	993406									
10-3/8	R	13	992406					10-3/8	R	14	993407									
10-3/8	R	14	992407					10-1/8	R	15	993408									
10	R	15	992408																	
10	R	16	992409																	

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	

 HIGH PERFORMANCE ALUMINUM PROPELLERS				 <p>993104 Rapture XHS →</p>	 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				 <p>NEW Apollo XHS Stainless Steel</p>	<p>Drop-In Hub</p> <p>Use XHS™ Hub Kit 102</p> <p>Use Gearcase Adapter Ring supplied with propeller.</p> <p>Refer to pages 42-43 for more details.</p>										
3-BLADE Dia. Rot. Pitch Part No.		3-BLADE Dia. Rot. Pitch Part No.			STD 3-BLADE Dia. Rot. Pitch Part No.															
13-3/4	R	15	992103					13-3/8	R	15	993143									
								13-3/8	L	15	993153									
13-1/4	R	17	992104					13-1/4	R	17	993144									
								13-1/4	L	17	993154									
13	R	19	992105					13-1/8	R	19	993145									
								13-1/8	L	19	993155									
12-3/4	R	21	992106					13	R	21	993146									
								13	L	21	993156									

 ALUMINUM & STAINLESS STEEL PROPS							 <p>031044</p>	 STAINLESS STEEL PROPS								<p>Rubber Hub Bushing</p> <p>Use OEM fwd washer 13191 tab washer 14-816629 or MWC Kit 990332 or 9660-1</p> <p>See Page 23 for details.</p>				
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		BALLISTIC Dia. Rot. Pitch Bld# Part No.				BALLISTIC XL Dia. Rot. Pitch Bld# Part No.								
14	R	11	3	AL	48-77338A40	031054														
14	R	13	3	AL	48-7734A40	031055														
13-3/4	R	15	3	AL	48-77342A40	031041														
13-1/4	R	17	3	AL	48-77344A40	031042														
13-1/4	R	17	3	SS	48-16988A5	033017														
13	R	19	3	AL	48-77346A40	031043														
13	R	19	3	SS	48-16990A40	033018														
12-3/4	R	21	3	AL	48-77348A40	031044														
13	R	21	3	SS	48-16992A40	033019														
12-1/2	R	23	3	AL	48-77350A40	031045														

⚠ 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	

Includes DFI, EFL, Magnum, Offshore, Optimax, Sea Pro & XRI Use thrust washer 13171 Add 4" pitch for twin motors

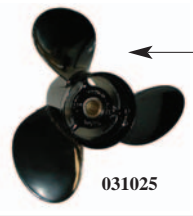
VORTEX ^{XHS™} HIGH PERFORMANCE ALUMINUM PROPELLERS				RAPTURE ^{XHS™}				NEW APOLLO ^{XHS™} ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS																							
3-BLADE				4-BLADE				3-BLADE				STD 3-BLADE				LG. DIAMETER 3-BLADE				4-BLADE											
Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part 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					14-1/4	R	15	993002	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	993003	14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203								
								14-1/4	L	17	993013	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	14-1/4	R	19	993004	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	14-1/4	R	21	993005	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	R	23	993006	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	R	22	993216								
								14-1/4	R	25	993007																				
								14-1/4	L	25	993017																				

Drop-In Hub

Use XHS™
Hub Kit
102

Refer to pages 42-43
for more details.

MATCH REPLACEMENT PROPELLERS							BALLISTIC [™] STAINLESS STEEL PROPS									
ALUMINUM & STAINLESS STEEL PROPS							BALLISTIC					BALLISTIC XL				
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
16	R	11	3	AL	48-78112A40	031021										
16	R	12	3	AL	48-16436A40	031063										
16	R	13	3	AL	48-78114A40	031022										
16	R	14	3	AL	48-16438A40	031050										
15-1/4	R	15	3	AL	48-78116A40	031023										
16	R	16	3	AL	48-16440A40	031051										
14-1/2	R	17	3	AL	48-78118A40	031024										
15	R	17	3	AL	48-832828A45	031064										
15-1/2	R	18	3	AL	48-11324A45	031052										
14	R	19	3	AL	48-78120A40	031025										
14	R	19	3	SS	48-16316A4	033004										
14-1/2	R	19	3	AL	48-382830A45	031065										
13-3/4	R	21	3	AL	48-78122A40	031026										
14-1/4	R	21	3	AL	48-832832A45	031066										
13-1/2	R	23	3	AL	48-78124A40	031027										
13-1/2	R	23	3	SS	48-16320A4	033006										
14	R	23	3	AL	48-832834A45	031068										
13-3/8	R	25	3	AL	48-78126A40	031067										



Rubber
Hub
Bushing

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

See Page 23 for details.

High Performance 4 Blade Propellers							BALLISTIC XL HIGH PERFORMANCE STAINLESS STEEL PROPELLER				
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
							13-3/4	R	23	4	435135
							13-3/4	R	25	4	435136
							13-3/4	R	27	4	435137
Stainless Steel Performance Propellers for Offshore or Heavy Boats											
15-1/4	L	19	3	SS	48-13701A41	033029					
14-5/8	L	23	3	SS	48-13705A41	033033					

▶ LIMITED INVENTORY ITEMS.

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

Replacing a Flo-Torq™ Hub with Michigan Propellers

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

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

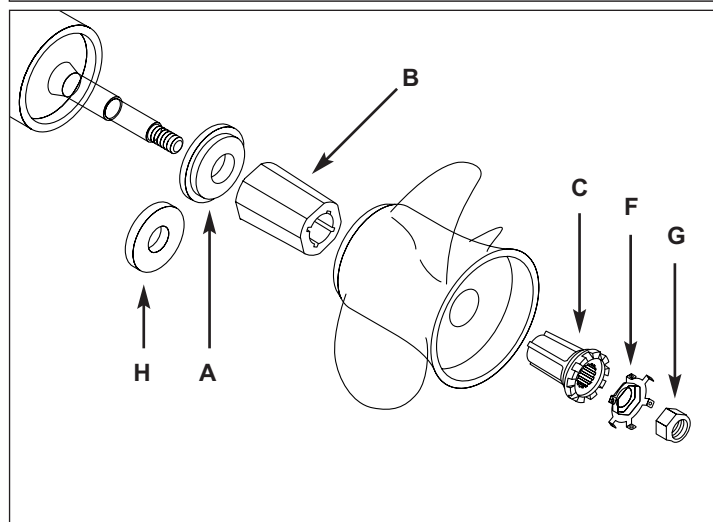
When converting to a Michigan Propeller on a **V-4 gearcase**, eliminate B & C, replace A with H and use existing hardware F & G.

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

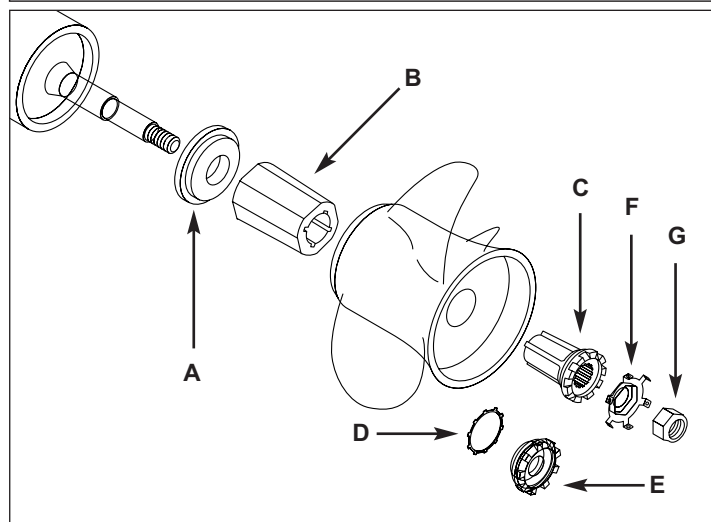
Michigan Wheel offers the following attaching hardware kits for these installations:

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

V-4 Gearcase
Example part No. 031042



V-6 & Sterndrive Gearcase
Example Part No. 031025



- 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 HP .....1984 & Newer	12 HP .....1985-88	15, 18 HP .....1985 & Newer
9.9 HP (4-Stroke) .....2000 & Newer	15 HP (4-Stroke) .....2000 & Newer	18 HP (4-Stroke) .....2001 & Newer



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9.2	R	6.9	3	AL	362-64105-0	142015
9.2	R	8.4	3	AL	362-64102-0	142017
9.2	R	9.8	3	AL	362-64108-0	142019



142019

Rubber
Hub
Bushing

25-30 HORSEPOWER

Thru Hub Exhaust & 10 Tooth Spline

25 HP .....1986 & Newer	30 HP .....1985 & Newer
-------------------------	-------------------------



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
122

Refer to pages 42-43
for more details.



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10.2	R	8.3	3	AL	346-64106-5	142020
9.8	R	10.2	3	AL	346-64102-5	142022
9.9	R	13.1	3	AL	346-64104-5	142024



142022



BALLISTIC

Dia.	Rot.	Pitch	Bld#	Part No.
10-1/8	R	13	3	305429
10-1/8	R	15	3	305430

Rubber
Hub
Bushing

35-50 HORSEPOWER

Thru Hub Exhaust & 13 Tooth Spline

35 HP (35B only) .....Thru 1984	40 HP .....1984 & Newer	50 HP .....1992 & Newer
50 HP (50D only) .....1991		



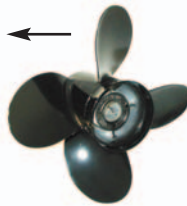
HIGH PERFORMANCE
ALUMINUM PROPELLERS

3-BLADE

Dia.	Rot.	Pitch	Part No.
10-3/8	R	11	992404
10-3/8	R	12	992405
10-3/8	R	13	992406
10-3/8	R	14	992407
10	R	15	992408
10	R	16	992409

4-BLADE

Dia.	Rot.	Pitch	Part No.
12	R	8	992401
12	R	9	992402
12	R	10	992403



992403

Vortex XHS™
Aluminum Propeller



ULTIMATE PERFORMANCE
STAINLESS STEEL PROPELLERS

STD 3-BLADE

Dia.	Rot.	Pitch	Part No.
10-3/4	R	12	993405
10-1/2	R	13	993406
10-3/8	R	14	993407
10-1/8	R	15	993408



NEW Apollo XHS
Stainless Steel

Drop-In Hub

Use XHS™
Hub Kit
116

Refer to pages 42-43
for more details.



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10.6	R	11.3	3	AL	361-64113-0	142001
10.6	R	11.7	3	AL	361-64114-0	142002
10.3	R	12.7	3	AL	348-64102-0	142003
10.2	R	13.9	3	AL	348-64103-0	142004



Dia.	Rot.	Pitch	Part No.
10-1/2	R	10	143001
10-1/2	R	12	143002
10-1/2	R	13	143003
10-1/2	R	14	143004
10-1/2	R	15	143005



142001

Rubber
Hub
Bushing

50-70 HORSEPOWER

Thru Hub Exhaust

50 HP (50C only)1987-91
55 HP1981-88

60A1986 & Newer

70A & 70B1981 & Newer

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
11-3/4	R	13	992301				
11-3/4	R	15	992302				
11-3/4	R	17	992303				



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.

ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
11.6	R	11	3	AL	353-64103-0	▶ 142005
11.5	R	13	3	AL	353-64105-0	▶ 142006
12-1/2	R	13	3	SS		▶ 013024
11	R	15	3	AL	353-64107-0	▶ 142007
12-1/4	R	15	3	SS		▶ 013010
10.7	R	16.4	3	AL	353-64108-0	▶ 142008
11-3/4	R	17	3	SS		▶ 013026
10.9	R	17.6	3	AL	353-64109-0	▶ 142009
11-1/4	R	19	3	SS		▶ 013032



Ballistic™ High Performance Stainless Steel Propeller



BALLISTIC				
Dia.	Rot.	Pitch	Bld#	Part No.
12-3/8	R	15	3	325030
12	R	17	3	325031

Rubber Hub Bushing

60-140 HORSEPOWER

Thru Hub Exhaust & 15 Tooth Spline

60C (Large Gearcase)Thru 1999
70C (Larger Gearcase)All years

90 HP1987 & Newer
115 HP1992 & Newer

120 HP1988 & Newer
140 HP1988 & Newer

3-BLADE			
Dia.	Rot.	Pitch	Part No.
13-3/4	R	15	992103
13-1/4	R	17	992104
13	R	19	992105
12-3/4	R	21	992106



HIGH PERFORMANCE ALUMINUM PROPELLERS



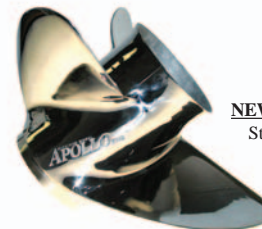
993104 Rapture XHS



3-BLADE				STD 3-BLADE			
Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.
				13-3/8	R	15	993143
				13-3/8	L	15	993153
				13-1/4	R	17	993144
				13-1/4	L	17	993154
13-1/4	R	19	▶ 993105	13-1/8	R	19	993145
13-1/4	R	21	▶ 993106	13-1/8	L	19	993155
				13	R	21	993146
				13	L	21	993156



ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS



NEW Apollo XHS Stainless Steel

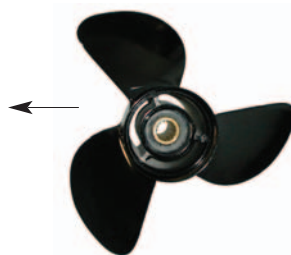
Drop-In Hub

Use XHS™ Hub Kit **109**

Use Gearcase Adapter Ring supplied with propeller.

Refer to pages 42-43 for more details.

ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
13-3/4	R	15	3	SS		▶ 103025
13-1/4	R	17	3	SS		▶ 103026
13	R	19	3	SS		▶ 103027
12.6	R	19.9	3	AL	3B7-64545-0	▶ 142013



Rubber Hub Standard OEM Replacement Aluminum & Stainless Steel



BALLISTIC XL				
Dia.	Rot.	Pitch	Bld#	Part No.
13-5/8	R	15	3	335930
13-1/2	R	17	3	335931
13-3/8	R	19	3	335932
13-1/8	R	21	3	335933

Rubber Hub Bushing

▶ 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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9-1/4	R	7	3	AL	58100-93703-019	062015
9-1/4	R	9	3	AL	58100-93723-019	062016
9-1/4	R	11	3	AL	58100-93743-019	062017



**Rubber
Hub
Bushing**

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



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
121

Refer to pages 42-43
for more details.



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10-1/4	R	11	3	AL	58100-96420-019	062012
10-1/4	R	11	3	AL		▶★ 061006
10-1/4	R	12	3	AL	58100-96430-019	062013
10-1/4	R	13	3	AL	58100-96440-019	062014



062013



BALLISTIC

Dia.	Rot.	Pitch	Bld#	Part No.
10-1/8	R	13	3	305529
10-1/8	R	15	3	305530

**Rubber
Hub
Bushing**

@ Use stopper 57632-96400


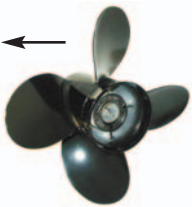


▶ LIMITED INVENTORY ITEMS.





★ Indicates a cupped propeller.



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	

 HIGH PERFORMANCE ALUMINUM PROPELLERS				 <p>992403 Vortex XHS™ Aluminum Propeller</p>	 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				 <p>NEW Apollo XHS Stainless Steel</p>	<p>Drop-In Hub</p> <p>Use XHS™ Hub Kit 115</p> <p>Refer to pages 42-43 for more details.</p>									
3-BLADE Dia. Rot. Pitch Part No.		4-BLADE Dia. Rot. Pitch Part No.			STD 3-BLADE Dia. Rot. Pitch Part No.														
				12	R	8	992401												
				12	R	9	992402												
				12	R	10	992403												
10-3/8	R	11	992404					10-3/4	R	12	993405								
10-3/8	R	12	992405					10-1/2	R	13	993406								
10-3/8	R	13	992406					10-3/8	R	14	993407								
10-3/8	R	14	992407					10-1/8	R	15	993408								
10	R	15	992408																
10	R	16	992409																

 ALUMINUM & STAINLESS STEEL PROPS											 <p>032042</p>	 BALLISTIC				<p>Rubber Hub Bushing</p>
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.	Dia.	Rot.	Pitch	Part No.		Dia.	Rot.	Pitch	Bld#		Part No.
12-1/4	R	10	3	AL	58100-95212-019	032045	10-1/2	R	10	033093						
12-1/4	R	10	3	AL		▶★ 031072										
12	R	11	3	AL	58100-95222-019	032044										
12	R	11	3	AL		▶★ 031073										
11-3/4	R	12	3	AL	58100-95393--019	032043	10-1/2	R	12	033094						
11-1/2	R	13	3	AL	58100-94313-019	032042	10-1/2	R	13	033095						
11-1/4	R	14	3	AL	58100-95353-019	032041	10-1/2	R	14	033096						
11	R	15	3	AL	58100-95363-019	032040	10-1/2	R	15	033097						
10-3/4	R	16	3	AL	58100-95373-019	032039					10-1/8	R	13	3	395929	
											10-1/8	R	15	3	395930	

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

 HIGH PERFORMANCE ALUMINUM PROPELLERS								 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS				<p>Drop-In Hub</p> <p>Use XHS™ Hub Kit 110</p> <p>Do NOT use Gearcase Adapter Ring supplied w/propeller.</p> <p>Refer to pages 42-43 for more details.</p>			
3-BLADE Dia. Rot. Pitch Part No.		 <p>Vortex XHS™ Aluminum Propeller</p>		3-BLADE Dia. Rot. Pitch Part No.		STD 3-BLADE Dia. Rot. Pitch Part No.		 <p>NEW Apollo XHS Stainless Steel</p>							
13-3/4	R	15	992103					13-3/8	R	15	993143				
13-1/4	R	17	992104					13-3/8	L	15	993153				
13	R	19	992105					13-1/4	R	17	993144				
12-3/4	R	21	992106					13-1/4	L	17	993154				
								13-1/4	R	19	▶ 993105	13-1/8	R	19	993145
								13-1/4	R	21	▶ 993106	13-1/8	L	19	993155
								13	R	21	993146	13	L	21	993156





 ALUMINUM & STAINLESS STEEL PROPS							 <p>061003</p>	<p>Rubber Hub Bushing</p>
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.		
13-3/4	R	15	3	AL	58100-95500-019	▶ 061001		
13-3/4	R	15	3	SS	99105-00100-16P	▶ 063001		
13-1/4	R	17	3	AL	58100-95511-019	▶ 061002		
13	R	19	3	AL	58100-95521-019	▶ 061003		
13	R	21	3	AL	58100-95530-019	▶ 061004		


★ Indicates a cupped propeller. ▶ LIMITED INVENTORY ITEMS.
 + Use stopper 57632-87E10, spacer 57633-95501, washer 09160-18028. ++ Use stopper 57635-95510, spacer 57633-95501, washer 09160-18028.
 # Requires stopper 57635-95503, spacer 57633-95501, lock washer 09160-18028 (supplied with engine).


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
------------------------------------	-------------------------------------	-------------------------------------

 HIGH PERFORMANCE ALUMINUM PROPELLERS			 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS	<p>Drop-In Hub</p> <p>Use XHS™ Hub Kit 125 & 126</p> <p>Refer to pages 42-43 for more details.</p>
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.	
13-3/4 R 15 992103		13-3/8 R 15 993143		
		13-3/8 L 15 993153		
13-1/4 R 17 992104		13-1/4 R 17 993144		
		13-1/4 L 17 993154		
13 R 19 992105		13-1/8 R 19 993145		
		13-1/8 L 19 993155		
12-3/4 R 21 992106		13 R 21 993146		
		13 L 21 993156		

 Vortex XHS™ Aluminum Propeller

 **NEW** Apollo XHS Stainless Steel





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.

 MICHIGAN MATCH ALUMINUM & STAINLESS STEEL PROPS	 101033	 BALLISTIC STAINLESS STEEL PROPS	<p>Rubber Hub Bushing</p>	
Dia. Rot. Pitch Bld# Mat'l OEM Part No. Part No.		BALLISTIC		BALLISTIC XL
14 R 11 3 AL 101036		Dia. Rot. Pitch Bld# Part No.		Dia. Rot. Pitch Bld# Part No.
13-5/8 R 13 3 AL 101031				
13-1/2 R 15 3 AL 101032		13-5/8 R 15 3 335930		
13-3/4 R 15 3 SS 103025				
13-1/4 R 17 3 AL 58100-90J00-019 101033		13-1/2 R 17 3 335931		
13-1/4 R 17 3 SS 103026				
13 R 19 3 AL 58100-90J10-019 101034		13-3/8 R 19 3 335932		
13 R 19 3 SS 103027				
12-5/8 R 21 3 AL 58100-90J20-019 101035	13-1/8 R 21 3 335933	13-1/2 R 22 3 335934		
		13-1/2 R 24 3 335935		

150-225 HORSEPOWER

Thru Hub Exhaust & 15 Tooth Spline

DT 150 .....1986 & Newer	DT 200 .....1986 & Newer	DT 225 .....1990 & Newer
DT 175 .....1986-92		

 HIGH PERFORMANCE ALUMINUM PROPELLERS			 ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS	<p>Drop-In Hub</p> <p>Use XHS™ Hub Kit 104</p> <p>Refer to pages 42-43 for more details.</p>		
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		14-1/4 R 15 993002	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 993003	14-1/4 R 17 993043		15-1/2 R 17 993023	14-5/8 R 16 993203
		14-1/4 L 17 993013	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	14-1/4 R 19 993004	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	14-1/4 R 21 993005	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 993056		14-3/4 L 21 993035	14-1/8 L 20 993215
14 R 23 992006		14-1/4 R 23 993006	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 R 22 993216
		14-1/4 R 25 993007				
		14-1/4 L 25 993017				

▶ LIMITED INVENTORY ITEMS.

6-8 HORSEPOWER

Thru Hub Exhaust & 7 Tooth Spline

6 HP1986 & Newer 8 HP1986 & Newer



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
8-1/2	R	6-1/2	3	AL	6G1-45947-00-EL	102001
8-1/2	R	7-1/2	3	AL	6G1-45943-00-EL	102002



**Rubber
Hub
Bushing**

8 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

8 HP1976-83



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
8-1/4	R	8	3	AL		012008
8-1/4	R	9	3	AL		012101



**Rubber
Hub
Bushing**

9.9-15 HORSEPOWER

Thru Hub Exhaust & 8 Tooth Spline

9.9 HP1984 & Newer 15 HP1984 & Newer



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9-1/4	R	8	3	AL	683-45947-00-EL	102003
9-1/4	R	9	3	AL	683-45945-00-EL	102004
9-1/4	R	10-1/2	3	AL	683-45943-00-EL	102005



**Rubber
Hub
Bushing**

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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9-1/4	R	7	3	AL	650-45943-01-36	012102
9	R	10	3	AL	651-45947-00-36	012011
9-1/4	R	11	3	AL	653-45941-01-36	012013
9-1/4	R	12	3	AL		012010



**Rubber
Hub
Bushing**

25-30 HORSEPOWER

Thru Hub Exhaust & 10 Tooth Spline

20 HP1996-97 25 HP (4-Stroke)2001 30 HP1979 & Newer
 25 HP1980 & Newer 30 HP (4-Stroke)2001

VORTEX ^{XHS}			
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
123

Refer to pages 42-43
 for more details

MICHIGAN REPLACEMENT PROPELLERS						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
9-7/8	R	9	3	AL	664-45941-01-EL	022001
9-7/8	R	9	3	AL		▶★ 021001
9-7/8	R	10-1/2	3	AL	664-45945-00-EL	022002
9-3/8	R	12	3	AL	664-45954-00-EL	022003



022001

BALLISTIC [™] STAINLESS STEEL PROPS				
BALLISTIC				
Dia.	Rot.	Pitch	Bld#	Part No.
10-1/8	R	13	3	305929
10-1/8	R	15	3	305930

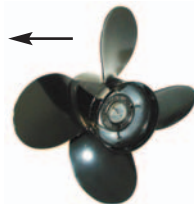
Rubber
 Hub
 Bushing

40-60 HORSEPOWER

Thru Hub Exhaust & 13 Tooth Spline

40 HP1984 & Newer 55 HP1976-95 FS 40 (4-Stroke)1999 & Newer
 48 HP1995 & Newer 60 HP1976-91 FS 50 (4-Stroke)1995 & Newer
 50 HP (not T50)1984 & Newer

VORTEX ^{XHS} HIGH PERFORMANCE ALUMINUM PROPELLERS			
3-BLADE			
Dia.	Rot.	Pitch	Part No.
10-3/8	R	11	992404
10-3/8	R	12	992405
10-3/8	R	13	992406
10-3/8	R	14	992407
10	R	15	992408
10	R	16	992409



992403
 Vortex XHS™
 Aluminum Propeller

NEW APOLLO ^{XHS} ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
STD 3-BLADE			
Dia.	Rot.	Pitch	Part No.
10-3/4	R	12	993405
10-1/2	R	13	993406
10-3/8	R	14	993407
10-1/8	R	15	993408



NEW Apollo XHS
 Stainless Steel

Drop-In Hub
 Use XHS™
 Hub Kit
117

Refer to pages 42-43
 for more details

MICHIGAN REPLACEMENT PROPELLERS						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
12-1/4	R	10	3	AL		032045
12-1/4	R	10	3	AL		▶★ 031072
12	R	11	3	AL	663-45947-02-EL	032044
12	R	11	3	AL		▶★ 031073
11-3/4	R	12	3	AL	6H5-45952-00-EL	032043
11-1/2	R	13	3	AL	6H5-45945-00-EL	032042
11-1/4	R	14	3	AL	663-45958-01-EL	032041
11	R	15	3	AL	6H5-45943-00-EL	032040
10-3/4	R	16	3	AL	663-45949-01-EL	032039



032042

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

Rubber
 Hub
 Bushing





▶ LIMITED INVENTORY ITEMS.

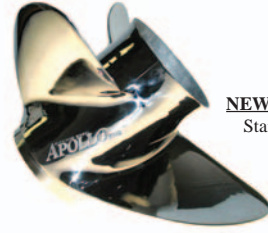
★ Indicates a cupped propeller.

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 80 (4-Stroke) .....1999 & Newer	FS 115 (4-Stroke) .....2000 & Newer
75 HP .....1994 & Newer	90 HP .....1984 & Newer	130 HP .....1984 & Newer

 HIGH PERFORMANCE ALUMINUM PROPELLERS								  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.
13-3/4	R	15	992103					13-3/8	R	15	993143
								13-3/8	L	15	993153
13-1/4	R	17	992104					13-1/4	R	17	993144
								13-1/4	L	17	993154
13	R	19	992105					13-1/8	R	19	993145
								13-1/8	L	19	993155
12-3/4	R	21	992106					13	R	21	993146
								13	L	21	993156





Drop-In Hub

Use XHS™ Hub Kit **108 & 103**

Use Gearcase Adapter Ring supplied with propeller.

Note: For 115 HP, FS 115 (4-Stroke), and 130 HP engine applications, use XHS™ (Drop-In Hub) Kit # 103. For all other engine applications, use XHS™ (Drop-in Hub) Kit # 126. Refer to pages 42-43 for more 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.
14	R	11	3	AL		101036										
13-5/8	R	13	3	AL		101031										
13-1/2	R	15	3	AL		101032										
13-3/4	R	15	3	SS		103025										
13-1/4	R	17	3	AL	58100-90J00-019	101033										
13-1/4	R	17	3	SS		103026										
13	R	19	3	AL	58100-90J10-019	101034										
13	R	19	3	SS		103027										
12-5/8	R	21	3	AL	58100-90J20-019	101035						13-1/8	R	21	3	335933
												13-1/2	R	22	3	335934
												13-1/2	R	24	3	335935



Rubber Hub Bushing

80-140 HORSEPOWER

Thru Hub Exhaust & 15 Tooth Spline

80, 90, 115 HP .....1978-83	80 HP .....1977	140 HP .....1978-79
-----------------------------	-----------------	---------------------

See Mercury 40-140 HP Product Offering on page 21.

150-175 HORSEPOWER

Thru Hub Exhaust & 15 Tooth Spline





150 HP .....1979-83	175 HP .....1978-791
---------------------	----------------------

See Mercury V-6 Product Offering on page 22.

▶ LIMITED INVENTORY ITEMS.

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	

 HIGH PERFORMANCE ALUMINUM PROPELLERS								  ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS																							
3-BLADE				4-BLADE				3-BLADE				STD 3-BLADE				LG. DIAMETER 3-BLADE				4-BLADE											
Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.	Dia.	Rot.	Pitch	Part No.				
15-1/4	R	15	992002					14-1/4	R	15	993002	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	993003	14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203								
								14-1/4	L	17	993013	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	14-1/4	R	19	993004	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	14-1/4	R	21	993005	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	R	23	993006	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	R	22	993216								
								14-1/4	R	25	993007																				
								14-1/4	L	25	993017																				


Drop-In Hub

Use XHS™
Hub Kit
103

Refer to pages 42-43
for more details

 MICHIGAN MATCH REPLACEMENT PROPELLERS						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
15-1/4	R	15	3	AL	6G5-45941-00-98	101025
14-5/8	R	16	3	AL	6G5-45952-00-98	▶ 101026
14-1/2	R	17	3	AL	6G5-45947-01-98	101027
14	R	19	3	AL	6G5-45945-01-98	101028
13-3/4	R	21	3	AL	6G5-45943-01-98	101029
13-3/4	R	21	3	SS	6G5-45972-02-98	▶ 103022
13-1/2	R	23	3	AL	6G5-45949-00-98	▶ 101030
High Performance 4-Blade Propellers						



 BALLISTIC™ STAINLESS STEEL PROPS									
BALLISTIC					BALLISTIC XL				
Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
14-7/8	R	15	3	345931					
14-3/4	R	17	3	345932					
14-3/4	L	17	3	345962					
14-1/2	R	19	3	345933					
14-1/2	L	19	3	345963					
14-3/8	R	21	3	345934	14-1/2	R	22	3	345941
14-3/8	L	21	3	345964					
14-1/4	R	23	3	345935	14-1/2	R	24	3	345937
14-1/4	R	25	3	345936	14-1/2	R	26	3	345938
					13-3/4	R	23	4	435935
					13-3/4	R	25	4	435936
					13-3/4	R	27	4	435937

Rubber Hub Bushing

▶ 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

VORTEX XHS™ HIGH PERFORMANCE ALUMINUM PROPELLERS				RAPTURE XHS™				NEW 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.
15-1/4	R	15	992002					14-1/4	R	15	993002	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	993003	14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203
								14-1/4	L	17	993013	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	14-1/4	R	19	993004	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	14-1/4	R	21	993005	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	R	23	993006	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	R	22	993216
								14-1/4	R	25	993007												
								14-1/4	L	25	993017												

Drop-In Hub

Use XHS™
 Hub Kit
102

Refer to pages 42-43
 for more details

MICHIGAN MATCH						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
16	R	11	3	AL	48-78112A40	031021
16	R	12	3	AL	48-16436A40	031063
16	R	13	3	AL	48-78114A40	031022
16	R	14	3	AL	48-16438A40	031050
15-1/4	R	15	3	AL	48-78116A40	031023
16	R	16	3	AL	48+16440A40	031051
14-1/2	R	17	3	AL	48-78118A40	031024
14-1/2	R	17	3	SS	48-16314A4	033003
15	R	17	3	AL	48-832828A45	031064
15-1/2	R	18	3	AL	48-11324A45	031052
14	R	19	3	AL	48-78120A40	031025
14	R	19	3	SS	48-16316A4	033004
14-1/2	R	19	3	AL	48-382830A45	031065
15-1/4	L	19	3	SS	48-13701A41	033029
13-3/4	R	21	3	AL	48-78122A40	031026
14-1/4	R	21	3	AL	48-832832A45	031066
14-3/4	R	21	3	SS	48-13702A41	033032
14-3/4	L	21	3	SS	48-13703A41	033031
13-1/2	R	23	3	AL	48-78124A40	031027
13-1/2	R	23	3	SS	48-16320A4	033006
14	R	23	3	AL	48-832834A45	031068
14-5/8	R	23	3	SS	48-13704A41	033034
14-5/8	L	23	3	SS	48-13705A41	033033
13-3/8	R	25	3	AL	48-78126A40	031067
14-1/2	R	25	3	SS	48-13706A41	033036
14-1/2	L	25	3	SS	48-13707A41	033035



NEW Apollo
 XHS Stainless
 Steel V-6



031025



Ballistic XL
 High Performance
 Stainless Steel Propeller

BALLISTIC™									
BALLISTIC					BALLISTIC XL				
Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
14-7/8	R	15	3	99345131					
14-3/4	R	17	3	99345132					
14-3/4	L	17	3	99345162					
14-1/2	R	19	3	99345133					
14-1/2	L	19	3	99345163					
14-3/8	R	21	3	99345134	14-1/2	R	22	3	99345141
14-3/8	L	21	3	99345164					
14-1/4	R	23	3	99345135	14-1/2	R	24	3	99345137
14-1/4	L	23	3	99345165					
14-1/4	R	25	3	99345136	14-1/2	R	26	3	99345138

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.

▶ LIMITED INVENTORY ITEMS.

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

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



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
15-1/4	L	19	3	SS	48-13242A50	◆●033052
14-3/4	R	21	3	SS	48-13244A50	◆●033054
14-3/4	L	21	3	SS	48-13243A50	◆●033053
14-5/8	L	23	3	SS	48-13245A50	◆●033055
14-1/2	R	25	3	SS	48-13248A50	◆●033058
14-1/2	L	25	3	SS	48-13247A50	◆●033057

Solid Hub

MERCUISER - MODEL O

Thru Hub Exhaust & 11 Tooth Spline

HP Range: 60 HP

For twin installation increase pitch 2".



ALUMINUM & STAINLESS STEEL PROPS

Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10-1/4	R	10	3	AL	48-33774A1	032084
10-1/4	R	11	3	AL	48-38098A1	032085
10-1/4	R	12	3	AL	48-38094A1	032086
10-1/4	R	13	3	AL	48-38090A1	032087






Rubber Hub Bushing

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



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

 HIGH PERFORMANCE ALUMINUM PROPELLERS								 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.
13-3/4	R	15	992103					13-3/8	R	15	993143
								13-3/8	L	15	993153
13-1/4	R	17	992104					13-1/4	R	17	993144
								13-1/4	L	17	993154
13	R	19	992105					13-1/8	R	19	993145
								13-1/8	L	19	993155
12-3/4	R	21	992106					13	R	21	993146
								13	L	21	993156




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

 ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
14	R	11	3	AL	382761	012047
14	R	13	3	AL	391668	011001
13-3/4	R	15	3	AL	391198	011002
13-3/4	R	15	3	SS	389949	013028
13-1/4	R	17	3	AL	391199	011003
13-3/8	R	17	3	SS	389948	013030
14	R	17	3	AL	176214	011024
13	R	19	3	AL	390896	011004
14	R	19	3	AL	176215	011025
12-3/4	R	21	3	AL	389788	011005
14	R	21	3	AL	176216	011026



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

Rubber Hub Bushing




▶ 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					14-1/4	R	15	993002	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	993003	14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203								
								14-1/4	L	17	993013	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	14-1/4	R	19	993004	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	14-1/4	R	21	993005	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	993056	14-3/4	L	21	993035	14-1/8	L	20	993215								
14	R	23	992006					14-1/4	R	23	993006	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	R	22	993216								
								14-1/4	R	25	993007																				
								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.

 ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
15-1/2	R	10	3	AL		011015
15-1/2	R	13	3	AL	391536	011016
15-1/2	R	15	3	AL	391535	011006
15	R	15	3	SS	174926	013052
15	L	15	3	SS	174927	013051
15	R	17	3	AL	391200	011007
14-1/2	R	19	3	AL	391201	011008
14-1/2	L	19	3	SS	390821	013045
14-1/4	R	21	3	AL	391202	011009
14-1/4	L	21	3	SS	390822	013047
14-1/4	R	23	3	AL	391203	011010
14-1/4	R	23	3	SS	389019	013050




 BALLISTIC™ STAINLESS STEEL PROPS									
BALLISTIC					BALLISTIC XL				
Dia.	Rot.	Pitch	Bld#	Part No.	Dia.	Rot.	Pitch	Bld#	Part No.
14-7/8	R	15	3	345031					
14-3/4	R	17	3	345032					
14-3/4	L	17	3	345062					
14-1/2	R	19	3	345033					
14-1/2	L	19	3	345063					
14-3/8	R	21	3	345034	14-1/2	R	22	3	345041
14-3/8	L	21	3	345064					
14-1/4	R	23	3	345035	14-1/2	R	24	3	345037
14-1/4	L	23	3	345065					
14-1/4	R	25	3	345036	14-1/2	R	26	3	345038

Rubber
 Hub
 Bushing

OMC SAILDRIVE®
Non-Thru Hub Exhaust & Pin Drive

Saildrive

 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

						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
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




012091

Rubber
Hub
Bushing

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

Thru Hub Exhaust & Pin Drive

Suggestion: For twin installation increase pitch 2".HP RANGE: 80-120

						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
10	R	11	3	AL	377978	012044
10	R	12	3	AL	378039	012045



012043


Rubber
Hub
Bushing

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".

						
ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
14	R	11	3	AL	382761	012047
14	R	13	3	AL	391668	011001
13-3/4	R	15	3	AL	391198	011002
13-1/4	R	17	3	AL	391199	011003
13-3/8	R	17	3	SS	389948	▶ 013030
14	R	17	3	AL	176214	011024
13	R	19	3	AL	390896	011006
14	R	19	3	AL	176215	011025
12-3/4	R	21	3	AL	389788	011005
14	R	21	3	AL	176216	011026



011004



Ballistic™
High Performance
Stainless Steel Propeller

BALLISTIC™
STAINLESS STEEL PROPS

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

Rubber
Hub
Bushing

▶ 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.		Stainless Steel Part No.	
			OEM	Michigan	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 17	RH	3	854997-4	❖ 082012-1		
15 x 17	LH	3	854982-6	❖ 082011-1		
15 x 19	RH	3	854998-2	❖ 082014-1		
15 x 19	LH	3	854983-4	❖ 082013-1		
15 x 21	RH	3	854999-0	❖ 082016-1		
15 x 21	LH	3	854984-2	❖ 082015-1		
16 x 13	LH	3	854986-7	082089-1		
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		
16 x 17	LH	3	854988-3	082093-1		
15-1/4 x 17	RH	3	SSV Series Stainless		852155-1 ❖	083002
15-1/4 x 17	LH	3	SSV Series Stainless		852086-8 ❖	083001
15 x 19	RH	3	SSV Series Stainless		852138-7 ❖	083004
15 x 19	LH	3	SSV Series Stainless		852085-0 ❖	083003
14-1/2 x 21	RH	3	SSV Series Stainless		852137-9 ❖	083006
14-1/2 x 21	LH	3	SSV Series Stainless		852087-6 ❖	083005

Standard Hub Propellers

Non-Thru Hub Exhaust & 17 Tooth Spline

Nearest Michigan Match™ OEM Equivalent

Dia. x Pitch	Rot.	Blade #	Aluminum Part No.		Stainless Steel Part No.	
			OEM	Michigan	OEM	Michigan
14 x 15	RH	3	814631-8		814631-8	082026-1
14 x 15	LH	3	814626-8		814626-8	082025-1
14 x 17	RH	3	814632-6		814632-6	082028-1
14 x 17	LH	3	814627-6		814627-6	082027-1
14 x 19	RH	3	814633-4		814633-4	082032-1
14 x 19	LH	3	814628-4		814628-4	082031-1
14 x 21	RH	3	814634-2		814634-2	082034
14 x 21	LH	3	814629-2		814629-2	082033
15 x 13	LH	3	813319-7		813319-7	082087-1
15 x 15	RH	3	814615-1		814615-1	082060-1
15 x 15	LH	3	814611-0		814611-0	082059-1
15 x 17	RH	3	814616-9		814616-9	082030-1
15 x 17	LH	3	814612-8		814612-8	082029-1
15 x 19	RH	3	-		-	082022
15 x 19	LH	3	-		-	082021
15 x 21	LH	3	-		-	082023

❖ Note: Bushings for above propellers suggested for max. 240 HP UNLESS marked with a ❖.

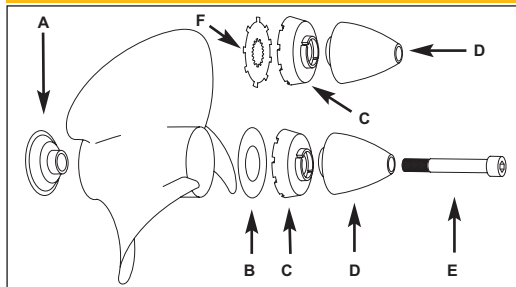
SSV Series: 1) Designed for boats with power to weight ratios of 12:1 and below. 2) Boats must have power trim. 3) Anti-cavitation plate height 1" above boat bottom. 4) Blades cambered must run in ventilated condition. 5) Use 2" less pitch if current aluminum prop is cupped, 3" less if uncupped. Parts 083005 & 083006 will not fit a 270 outdrive.

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 #PZ287179, and are NOT for use with V-6 diesel engines.

Propeller Hardware is available thru Volvo Distributors.

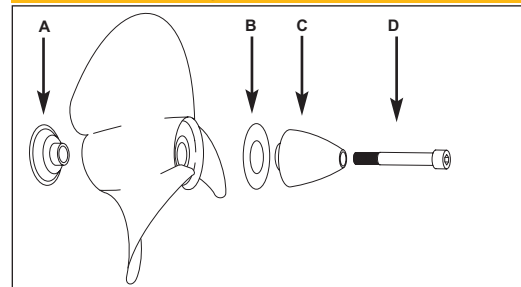
Standard Hub Installation



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

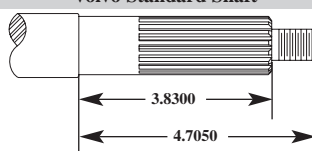
Long Hub Installation



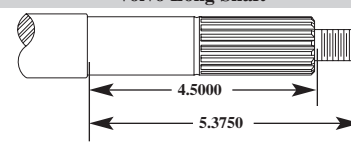
Long Hub Propeller Hardware:

- 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		

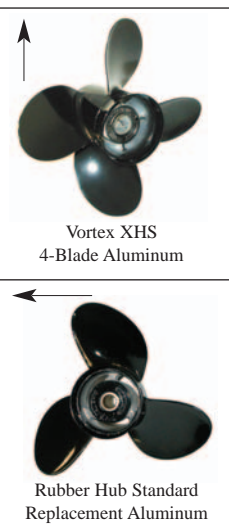
 HIGH PERFORMANCE ALUMINUM PROPELLERS								  ULTIMATE PERFORMANCE STAINLESS STEEL PROPELLERS			
3-BLADE		4-BLADE		3-BLADE		STD 3-BLADE		LG. DIAMETER 3-BLADE		4-BLADE	
Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.	Dia.	Rot. Pitch Part No.
15-1/4	R 15 992002			14-1/4	R 15 993002	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 993003	14-1/4	R 17 993043	15-1/2	R 17 993023	14-5/8	R 16 993203
				14-1/4	L 17 993013	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	14-1/4	R 19 993004	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	14-1/4	R 21 993005	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	R 23 993006	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	R 22 993216
				14-1/4	R 25 993007						
				14-1/4	L 25 993017						


Drop-In Hub

Use XHS™
Hub Kit
105

Refer to pages 42-43
for more details

 ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
15-1/2	R	15	3	AL	3850299	161001
15	R	15	3	SS	3850305	▶ 163002
15	R	17	3	AL	3850300	161002
15	R	17	3	SS	3850307	▶ 163004
15	L	17	3	SS	3850316	▶ 163003
14-1/2	R	19	3	AL	3850301	161003
14-1/2	L	19	3	SS	3850317	▶ 163005
14-1/4	R	21	3	AL	3850302	161004
14-1/4	R	21	3	SS	3850309	▶ 163008
14-1/4	L	21	3	SS	3850318	▶ 163007
14-1/4	R	23	3	AL	3850303	161005
14-1/4	R	23	3	SS	3850310	▶ 163010
14-1/4	L	23	3	SS	3850319	▶ 163009



 BALLISTIC				
Dia.	Rot.	Pitch	Bld#	Part No.
14-7/8	R	15	3	346031
14-3/4	R	17	3	346032
14-3/4	L	17	3	346062
14-1/2	R	19	3	346033
14-1/2	L	19	3	346063
14-3/8	R	21	3	346034
14-3/8	L	21	3	346064
14-1/4	R	23	3	346035
14-1/4	L	23	3	346065





Rubber
Hub
Bushing

▶ LIMITED INVENTORY ITEMS.

130-205 HORSEPOWER 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.
15-1/4	R 15 992002			14-1/4	R 15 993002	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 993003	14-1/4	R 17 993043	15-1/2	R 17 993023	14-5/8	R 16 993203
				14-1/4	L 17 993013	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	14-1/4	R 19 993004	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	14-1/4	R 21 993005	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	R 23 993006	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	R 22 993216
				14-1/4	R 25 993007						
				14-1/4	L 25 993017						

Drop-In Hub


Use XHS™
Hub Kit
103

Refer to pages 42-43
for more details

 ALUMINUM & STAINLESS STEEL PROPS						
Dia.	Rot.	Pitch	Bld#	Mat'l	OEM Part No.	Part No.
15-1/4	R	15	3	AL	6G5-45941-00-98	101025
14-5/8	R	16	3	AL	6G5-45952-00-98	101026
14-1/2	R	17	3	AL	6G5-45947-01-98	101027
14-1/2	R	17	3	SS	6G5-45978-03-98	▶ 103018
14	R	19	3	AL	6G5-45945-01-98	101028
14	R	19	3	SS	6G5-45974-03-98	▶ 103020
13-3/4	R	21	3	AL	6G5-45943-01-98	101029
13-3/4	R	21	3	SS	6G5-45972-03-98	▶ 103022
13-1/2	R	23	3	AL	6G5-45949-00-98	101030



101028

 BALLISTIC						BALLISTIC XL					
Dia.	Rot.	Pitch	Bld#	Part No.		Dia.	Rot.	Pitch	Bld#	Part No.	
14-7/8	R	15	3	345931							
14-3/4	R	17	3	345932							
14-3/4	L	17	3	345962							
14-1/2	R	19	3	345933							
14-1/2	L	19	3	345963							
14-3/8	R	21	3	345934	14-1/2	R	22	3	345941		
14-3/8	L	21	3	345964							
14-1/4	R	23	3	345935	14-1/2	R	24	3	345937		
14-1/4	L	23	3	345965							
					14-1/2	R	26	3	345938		

Rubber
Hub
Bushing

▶ LIMITED INVENTORY ITEMS.



 PERFORMANCE PROPELLERS





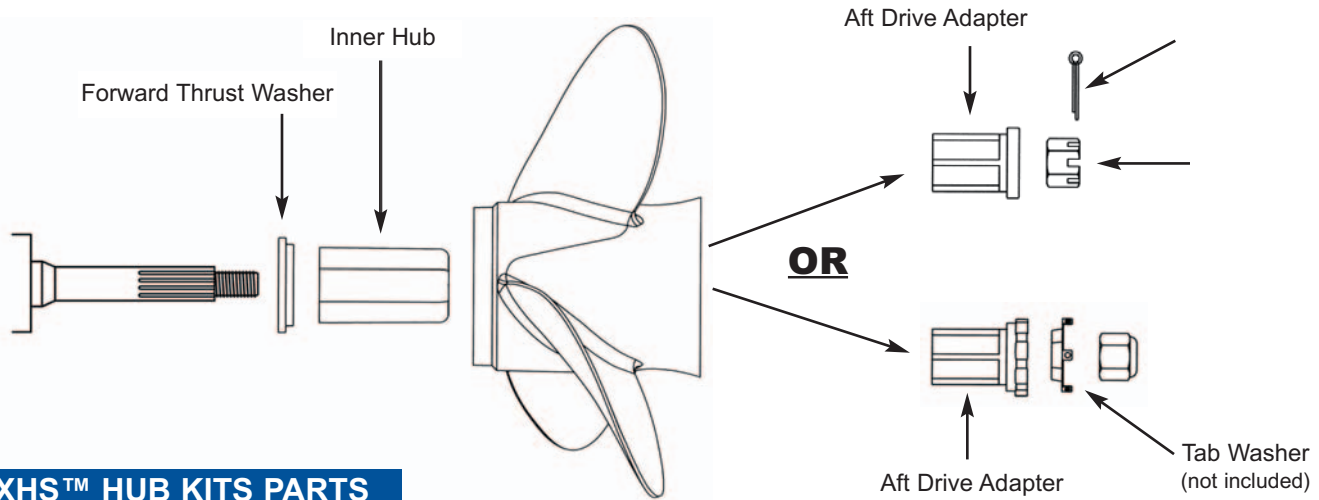






 STAINLESS STEEL PROPS

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	Mer cruiser Alpha One & Bravo One (less than 400 HP) Mercury/Mariner 60HP Bigfoot, 70-125 HP Mercury/Mariner/Force 135-250 HP Force 90-120 HP Honda Outboards 75-90 HP thru 1998 Yamaha Outboards thru 1983	991204 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
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

High Horsepower Inner Hub (Mercury part # 850821A2)
V4 Gearcaser Adapter Ring

991272 Solid Hub
991216 Adapter Ring

XHS™ PROPELLER ACCESSORIES

XHS™ HUB KITS PARTS

Hub Kit	Description	Parts
V4/V6 & Sterndrive XHS™ Hub Kits (continued)		
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
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
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 - B35)

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

(PAGE B35)

MICHIGAN MATCH TO XHS™ CROSS REFERENCE

(PAGE B36)

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 .Obsolete
AMC394	072132	PJ200-C	011016	PR157	032092
AMC422	012068	PJ201-C	011006	PR157-C	031002 .Obsolete
AMC490	152002 .Obsolete	PJ202-C	011007	PR159	032093
AMC580-S	032077	PJ203-C	011008	PR159-C	031003 .Obsolete
DQ320	012074	PJ204-C	011009	PR161	032094
DQ328	012075	PJ205-C	011010	PR161-C	031004 .Obsolete
EWC19	012076	PJ300	012060	PR276	072054
G 20	072017	PM 8	032014	PR278	072055
G 30	152014 .Obsolete	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 .Obsolete
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 .Obsolete
PJ 11	012008	PM217-C	031024	SMC382-C	031039 .Obsolete
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 .Obsolete
PJ 29	012021	PM319-C	031043	SSC317-C	073003 .Obsolete
PJ 30	012022	PM321-C	031044	SSC319-C	073004 .Obsolete
PJ 31	012023	PM323-C	031045	SSM212-C	033001
PJ 32	012024	PM513	032039	SSM245-C	033002 .Obsolete
PJ 35	012025	PM515	032040	SSM247-C	033003 .Obsolete
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 .Obsolete
PJ 47	012031	PM530	032045	SSM354-C	033008 .Obsolete
PJ 49	012032	PM600-C	031015	SSM358-C	033009 .Obsolete
PJ 50	012033 .Obsolete	PM612-C	031016	SSM615-C	033016 .Obsolete
PJ 58	012036	PM613-C	031017	SSM617-C	033017 .Obsolete
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 .Obsolete
PJ 75	012043	PR 37	032086	SSV191-C	083003 .Obsolete
PJ 76	012044	PR 39	032087	SSV192-C	083004
PJ 77	012045	PR 78	072032	SSV211-C	083005 .Obsolete
PJ 83-C	011005	PR 80	072033	SSV212-C	083006
PJ 87	012047	PR 82	072034 .Obsolete	SSY615-C	103025 .Obsolete
PJ 88-C	011001	PR115	012089	SSY617-C	103026 .Obsolete
PJ 89-C	011002	PR118	012090	SSY619-C	103027 .Obsolete
PJ 90-C	011003	PR120	012091	SSY717-C	103018 .Obsolete
PJ 91-C	011004	PR122	012092	SSY719-C	103020 .Obsolete
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
	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 ..
174812 .....VIPER™(LH)013071	.345064	.....	.....	.993015	.993055	993035	993215	..See Note 2 ..
174813 .....VIPER™(LH)013073	.345065	.....	.....	.993016	.993056	993036	993216	..See Note 2 ..
174814 .....VIPER™013068	.345033	.....	.....	.993004	.993044	993024	993204	..See Note 2 ..
174815 .....VIPER™013070	.345034	.....	.....	.993005	.993045	993025	993205	..See Note 2 ..
174816 .....VIPER™013072	.345035	.....	.....	.993006	.993046	993026	993206	..See Note 2 ..
174889 .....VIPER™013066	.345032	.....	.....	.993003	.993043	993023	993203	..See Note 2 ..
174890 .....VIPER™(LH)013067	.345062	.....	.....	.993013	.993053	993033	993213	..See Note 2 ..
174926 .....SST II®	.013052	.013064	.345031	.....	.....	.993002	.993042	993022	.....	..See Note 2 ..
174927 .....SST II® (LH)	.013051	.013065	.....	.....	.....	.993012	.993052	993032	.....	..See Note 2 ..
174950 .....	.012111	.....	.....	.....	.....	.....	.....	.....	.....	.....
175190 .....	.012055	.....	.....	.....	.992503	.....	.....	.....	.....	.....118
175191 .....	.012056	.....	.305029	.....	.992505	.....	.....	.....	.....	.....118
175738 .....Renegade™ Bass435036	.....	.....	.....	.....	.....	.....
175739 .....Renegade™ Bass435037	.....	.....	.....	.....	.....	.....
176058 .....Renegade™ Bass435035	.....	.....	.....	.....	.....	.....
176196 .....Renegade™ Bass013079	.....	.....	.....	.993106	.993146	.....	.....	.....106
176214 .....	.011024	.013077	.335031	.....	.992104	.993104	.993144	.....	.....	.....106
176215 .....	.011025	.013078	.335032	.....	.992105	.993105	.993145	.....	.....	.....106
176216 .....	.011026	.013079	.335033	.....	.992106	.993106	.993146	.....	.....	.....106
176421 .....	.011027	.013082	.325030	.....	.....	.....	.....	.....	.....	.....
176422 .....	.011028	.013083	.325031	.....	.....	.....	.....	.....	.....	.....
176423 .....	.011029	.013084	.....	.....	.....	.....	.....	.....	.....	.....
176572 .....SST II®013077	.335031	.....	.....	.993104	.993144	.....	.....	.....106
176573 .....SST II®013078	.335032	.....	.....	.993105	.993145	.....	.....	.....106
176574 .....SST II®013079	.335033	.....	.....	.993106	.993146	.....	.....	.....106
176575 .....Renegade™ O.S.(RH)013066	.345032	.....	.....	.993003	.993043	993023	993203	..See Note 2 ..
176576 .....Renegade™ O.S.(RH)013068	.345033	.....	.....	.993004	.993044	993024	993204	..See Note 2 ..
176577 .....Renegade™ O.S.(RH)013070	.345034	.....	.....	.993005	.993045	993025	993205	..See Note 2 ..
176578 .....Renegade O.S.(LH)013067	.345062	.....	.....	.993013	.993053	993033	993213	..See Note 2 ..
176579 .....Renegade O.S.(LH)013069	.345063	.....	.....	.993014	.993054	993034	993214	..See Note 2 ..
176580 .....Renegade O.S.(LH)013071	.345064	.....	.....	.993015	.993055	993035	993215	..See Note 2 ..
176615 .....Swept-Blade™013066	.345032	.....	.....	.993003	.993043	993023	993203	..See Note 2 ..
176616 .....Swept-Blade™(LH)013067	.345062	.....	.....	.993013	.993053	993033	993213	..See Note 2 ..
176617 .....Swept-Blade™013068	.345033	.....	.....	.993004	.993044	993024	993204	..See Note 2 ..
176618 .....Swept-Blade™(LH)013069	.345063	.....	.....	.993014	.993054	993034	993214	..See Note 2 ..
176619 .....Swept-Blade™013070	.345034	.....	.....	.993005	.993045	993025	993205	..See Note 2 ..
176620 .....Swept-Blade™(LH)013071	.345064	.....	.....	.993015	.993055	993035	993215	..See Note 2 ..
176623 .....VIPER™013077	.335031	.....	.....	.993104	.993144	.....	.....	.....106
176624 .....VIPER™013078	.335032	.....	.....	.993105	.993145	.....	.....	.....106
176625 .....VIPER™013079	.335033	.....	.....	.993106	.993146	.....	.....	.....106
176626 .....Swept-Blade™013066	.345032	.....	.....	.993003	.993043	993023	993203	..See Note 2 ..
176627 .....Swept-Blade™013068	.345033	.....	.....	.993004	.993044	993024	993204	..See Note 2 ..
176628 .....Swept-Blade™013070	.345034	.....	.....	.993005	.993045	993025	993205	..See Note 2 ..
176629 .....Swept-Blade™(LH)013067	.345062	.....	.....	.993013	.993053	993033	993213	..See Note 2 ..
176630 .....Swept-Blade™(LH)013069	.345063	.....	.....	.993014	.993054	993034	993214	..See Note 2 ..
176902 .....Swept-Blade™(LH)013071	.345064	.....	.....	.993015	.993055	993035	993215	..See Note 2 ..
176969 .....SST®013068	.....	.....	.....	.993004	.993044	993024	993204	..See Note 2 ..
176970 .....SST®013068	.....	.....	.....	.993004	.993044	993024	993204	..See Note 2 ..
176971 .....SST®013070	.....	.....	.....	.993005	.993045	993025	993205	..See Note 2 ..
176973 .....SST® (LH)013067	.....	.....	.....	.993013	.993053	993033	993213	..See Note 2 ..
176999 .....Renegade O.S.(RH)013072	.....	.....	.....	.993006	.993046	993026	993206	..See Note 2 ..
177000 .....Renegade O.S.(LH)013073	.....	.....	.....	.993016	.993056	993036	993216	..See Note 2 ..
177034 .....SST®013064	.....	.....	.....	.993002	.993042	993022	.....	..See Note 2 ..
177035 .....SST®013066	.....	.....	.....	.993003	.993043	993023	993203	..See Note 2 ..
177042 .....VIPER™013076	.....	.....	.....	.993103	.993143	.....	.....	.....106
177131992104	.993104	.993144	.....	.....	.....110
177134992003	.993003	.993043	993023	993203	..See Note 2 ..

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
EVINRUDE, JOHNSON, OMC (continued)										
177135 .....	.....	.....	.....	.....	.992004	.993004	.993044	.993024	.993204	..See Note 2 ..
177136 .....	.....	.....	.....	.....	.992005	.993005	.993045	.993025	.993205	..See Note 2 ..
177137 .....	.....	.....	.....	.....	.992006	.993006	.993046	.993026	.993206	..See Note 2 ..
178811 .....VIPER™(LH)	.....	.013069	.....	.....	.....	.993014	.993054	.993034	.993214	..See Note 2 ..
178814 .....VIPER™	.....	.013068	.....	.....	.....	.993004	.993044	.993024	.993204	..See Note 2 ..
203120 .....	.012001	.....	.....	.....	.....	.....	.....	.....	.....	.....
203682 .....	.012001	.....	.....	.....	.....	.....	.....	.....	.....	.....
203919 .....	.012001	.....	.....	.....	.....	.....	.....	.....	.....	.....
204347 .....	.012001	.....	.....	.....	.....	.....	.....	.....	.....	.....
277212 .....	.012076	.....	.....	.....	.....	.....	.....	.....	.....	.....
277440 .....	.012060	.....	.....	.....	.....	.....	.....	.....	.....	.....
277443 .....	.012076	.....	.....	.....	.....	.....	.....	.....	.....	.....
277580 .....	.012024	.....	.....	.....	.....	.....	.....	.....	.....	.....
277581 .....	.012024	.....	.....	.....	.....	.....	.....	.....	.....	.....
277583 .....	.012076	.....	.....	.....	.....	.....	.....	.....	.....	.....
277595 .....	.012006	.....	.....	.....	.....	.....	.....	.....	.....	.....
277599 .....	.012011	.....	.....	.....	.....	.....	.....	.....	.....	.....
277617 .....	.012028	.....	.....	.....	.....	.....	.....	.....	.....	.....
277759 .....	.012008	.....	.....	.....	.....	.....	.....	.....	.....	.....
278194 .....	.012026	.....	.....	.....	.....	.....	.....	.....	.....	.....
375605 .....	.012109	.....	.....	.....	.....	.....	.....	.....	.....	.....
376072 .....	.012060	.....	.....	.....	.....	.....	.....	.....	.....	.....
376506 .....	.012076	.....	.....	.....	.....	.....	.....	.....	.....	.....
376732 .....	.012024	.....	.....	.....	.....	.....	.....	.....	.....	.....
376735 .....	.012109	.....	.....	.....	.....	.....	.....	.....	.....	.....
376737 .....	.012076	.....	.....	.....	.....	.....	.....	.....	.....	.....
376738 .....	.012027	.....	.....	.....	.....	.....	.....	.....	.....	.....
376777 .....	.012060	.....	.....	.....	.....	.....	.....	.....	.....	.....
376805 .....	.012011	.....	.....	.....	.....	.....	.....	.....	.....	.....
376841 .....	.012109	.....	.....	.....	.....	.....	.....	.....	.....	.....
376917 .....	.012028	.....	.....	.....	.....	.....	.....	.....	.....	.....
376968 .....	.012060	.....	.....	.....	.....	.....	.....	.....	.....	.....
377410 .....	.012023	.....	.....	.....	.....	.....	.....	.....	.....	.....
377632 .....	.012060	.....	.....	.....	.....	.....	.....	.....	.....	.....
377635 .....	.012007	.....	.....	.....	.....	.....	.....	.....	.....	.....
377636 .....	.012011	.....	.....	.....	.....	.....	.....	.....	.....	.....
377978 .....	.012044	.....	.....	.....	.....	.....	.....	.....	.....	.....
378039 .....	.012045	.....	.....	.....	.....	.....	.....	.....	.....	.....
378040 .....	.012043	.....	.....	.....	.....	.....	.....	.....	.....	.....
378571 .....	.012026	.....	.....	.....	.....	.....	.....	.....	.....	.....
378579 .....	.012025	.....	.....	.....	.....	.....	.....	.....	.....	.....
378580 .....	.012022	.....	.....	.....	.....	.....	.....	.....	.....	.....
378581 .....	.012023	.....	.....	.....	.....	.....	.....	.....	.....	.....
379260 .....	.012042	.....	.....	.....	.....	.....	.....	.....	.....	.....
379717 .....	.012109	.....	.....	.....	.....	.....	.....	.....	.....	.....
380104 .....	.012004	.....	.....	.....	.....	.....	.....	.....	.....	.....
380637 .....	.012024	.....	.....	.....	.....	.....	.....	.....	.....	.....
380958 .....	.012005	.....	.....	.....	.....	.....	.....	.....	.....	.....
381185 .....	.012091	.....	.....	.....	.....	.....	.....	.....	.....	.....
381186 .....	.012092	.....	.....	.....	.....	.....	.....	.....	.....	.....
381187 .....	.012093	.....	.....	.....	.....	.....	.....	.....	.....	.....
381446 .....	.012044	.....	.....	.....	.....	.....	.....	.....	.....	.....
381801 .....	.012011	.....	.....	.....	.....	.....	.....	.....	.....	.....
382017 .....	.012090	.....	.....	.....	.....	.....	.....	.....	.....	.....
382676 .....	.012089	.....	.....	.....	.....	.....	.....	.....	.....	.....
382761 .....	.012047	.....	.....	.....	.....	.....	.....	.....	.....	.....
382762 .....	.011001	.....	.....	.....	.....	.....	.....	.....	.....	.....
382763 .....	.011002	.013076	.....	.....	.992103	.993103	.993143	.....	.....	.....106

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
EVINRUDE, JOHNSON, OMC (continued)										
382764	.011003	.013077			.992104	.993104	.993144			.106
382765	.011004	.013078			.992105	.993105	.993145			.106
382766	.011005	.013079			.992106	.993106	.993146			.106
382768					.992106	.993106	.993146			.106
383287	.012094									
383315	.012008									
383629	.012011									
384139	.SST® .013030	.013077				.993104	.993144			.106
384140	.011005	.013079			.992106	.993106	.993146			.106
384141	.SST® .013034	.013079				.993106	.993146			.106
384142	.SST® .013033	.013078				.993105	.993145			.106
384144	.SST® .013028	.013076				.993103	.993143			.106
384460	.012028									
384702	.SST® .013034	.013079				.993106	.993146			.106
3850299	.161001	.163012	.346031		.992002	.993002	.993042	.993022		.105
3850300	.161002	.163014	.346032		.992003	.993003	.993043	.993023	.993203	.105
3850301	.161003	.163016	.346033		.992004	.993004	.993044	.993024	.993204	.105
3850302					.992005	.993005	.993045	.993025	.993205	.105
385319	.012005									
385940	.SST® .012008									
385955	.012023									
386118	.012111									
386317	.012054				.992501					.118
386637	.012055									
386669	.012113									
386786	.012038	.013082			.992302					.111
386841	.012039	.013083			.992303					.111
386907	.012036	.013080								
386908	.012040	.013084								
386909	.012037	.013081			.992301					.111
386933	.012056									
386955	.012005									
386980	.SST® .013026	.013083								
386981	.SST® .013010	.013082								
386982	.SST® .013024	.013081								
387158	.011016									
387159	.011006	.013064			.992002	.993002	.993042	.993022		..See Note 2 ..
387160	.011007	.013066			.992003	.993003	.993043	.993023	.993203	..See Note 2 ..
387161	.011008	.013068			.992004	.993004	.993044	.993024	.993204	..See Note 2 ..
387162	.011009	.013070			.992005	.993005	.993045	.993025	.993205	..See Note 2 ..
387163	.011010	.013072			.992006	.993006	.993046	.993026	.993206	..See Note 2 ..
387320	.012053									
387334	.012008									
387519	.SST® .013046	.013068				.993004	.993044	.993024	.993204	..See Note 2 ..
387520	.SST® .013048	.013070				.993005	.993045	.993025	.993205	..See Note 2 ..
387636	.012056									
388088	.012013									
388294	.012102									
388883	.012016									
389019	.SST II® .013050	.013072	.345035			.993006	.993046	.993026	.993206	..See Note 2 ..
389029	.SST® .013032	.013084								
389068	.012021									
389069	.012015									
389510	.SST II® .013033	.013078				.993105	.993145			.106
389512	.SST II® .013034	.013079				.993106	.993146			.106
389619	.012015									
389627	.012101									
389788	.011005	.013079			.992106	.993106	.993146			.106

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
EVINRUDE, JOHNSON, OMC (continued)										
389855 .....	.012023	.....	.....	.....	.....	.....	.....	.....	.....	.....
389923 .....SST II®	.013048	.013070	.345034	.....	.....	.993005	.993045	.993025	.993205	..See Note 2 ..
389924 .....SST II®	.013046	.013068	.345033	.....	.....	.993004	.993044	.993024	.993204	..See Note 2 ..
389925 .....SST®	.....	.....	.345032	.....	.....	.....	.....	.....	.....	.....
389944 .....	.012030	.....	.....	.....	.....	.....	.....	.....	.....	.....
389948 .....SST II®	.013030	.013077	.....	.....	.....	.993104	.993144	.....	.....	.....106
389949 .....SST II®	.013028	.013076	.335030	.....	.....	.993103	.993143	.....	.....	.....106
390113 .....SST®	.013033	.013078	.....	.....	.....	.993105	.993145	.....	.....	.....106
390114 .....SST®	.013030	.013077	.....	.....	.....	.993104	.993144	.....	.....	.....106
390237 .....	.012032	.....	.....	.....	.....	.....	.....	.....	.....	.....
390380 .....	.012057	.....	.305030	.....	.....	.....	.....	.....	.....	.....
390725 .....SST®	.....	.....	.345036	.....	.....	.....	.....	.....	.....	.....
390729 .....SST®	.....	.....	.305029	.....	.....	.....	.....	.....	.....	.....
390730 .....SST®	.....	.....	.305030	.....	.....	.....	.....	.....	.....	.....
390821 .....SST II® (LH)	.013045	.013069	.345063	.....	.....	.993014	.993144	.....	.....	..See Note 2 ..
390822 .....SST II® (LH)	.013047	.013071	.345064	.....	.....	.993015	.993145	.....	.....	..See Note 2 ..
390823 .....SST II® (LH)	.....	.013073	.345065	.....	.....	.993016	.993146	.....	.....	..See Note 2 ..
390830 .....	.012031	.....	.....	.....	.....	.....	.....	.....	.....	.....
390833 .....	.012024	.....	.....	.....	.....	.....	.....	.....	.....	.....
390849 .....SST®	.013024	.013081	.....	.....	.....	.....	.....	.....	.....	.....
390850 .....SST®	.013010	.013082	.325030	.....	.....	.....	.....	.....	.....	.....
390851 .....SST®	.013026	.013083	.325031	.....	.....	.....	.....	.....	.....	.....
390852 .....SST®	.013032	.013084	.....	.....	.....	.....	.....	.....	.....	.....
390896 .....	.011004	.013078	.....	.....	.992105	.993105	.993145	.....	.....	.....106
391096 .....	.012031	.....	.....	.....	.....	.....	.....	.....	.....	.....
391198 .....	.011002	.013076	.335030	.....	.992103	.993103	.993143	.....	.....	.....106
391199 .....	.011003	.013077	.....	.....	.992104	.993104	.993144	.....	.....	.....106
391200 .....	.011007	.013066	.345032	.....	.992003	.993003	.993043	.993023	.993203	..See Note 2 ..
391201 .....	.011008	.013068	.345033	.....	.992004	.993004	.993044	.993024	.993204	..See Note 2 ..
391202 .....	.011009	.013070	.345034	.....	.992005	.993005	.993045	.993025	.993205	..See Note 2 ..
391203 .....	.011010	.013072	.345035	.....	.992006	.993006	.993046	.993026	.993206	..See Note 2 ..
391290 .....SST II®	.013044	.013066	.345032	.....	.....	.993003	.993043	.993023	.993203	..See Note 2 ..
391534 .....	.012101	.....	.....	.....	.....	.....	.....	.....	.....	.....
391535 .....	.011006	.013064	.345031	.....	.992002	.993002	.993042	.....	.....	..See Note 2 ..
391536 .....	.011016	.....	.....	.....	.....	.....	.....	.....	.....	.....
391668 .....	.011001	.....	.....	.....	.....	.....	.....	.....	.....	.....
393160 .....Aluminum	.011025	.013078	.....	.....	.992105	.993105	.993145	.....	.....	.....106
394752 .....Raker®	.....	.013066	.345032	.....	.....	.993003	.993043	.993023	.993203	..See Note 2 ..
394753 .....Raker®	.....	.013068	.345033	.....	.....	.993004	.993044	.993024	.993204	..See Note 2 ..
394754 .....Raker®	.....	.013070	.345034	.345041	.....	.993005	.993045	.993025	.993205	..See Note 2 ..
394755 .....Raker®	.....	.013072	.345035	.345037	.....	.993006	.993046	.993026	.993206	..See Note 2 ..
394756 .....Raker®	.....	.013074	.345036	.345038	.....	.993007	.993047	.993027	.993207	..See Note 2 ..
394758 .....Raker®	.....	.013077	.335032	.....	.....	.993104	.993144	.....	.....	.....106
394759 .....Raker®	.....	.013078	.335033	.....	.....	.993105	.993145	.....	.....	.....106
394760 .....Raker®	.....	.013079	.....	.335034	.....	.993106	.993146	.....	.....	.....106
394761 .....Raker®	.....	.....	.....	.335035	.....	.....	.....	.....	.....	.....
398126 .....	.012112	.....	.....	.....	.....	.....	.....	.....	.....	.....
398502 .....Raker® (LH)	.....	.013069	.345063	.....	.....	.993014	.993054	.993034	.993214	..See Note 2 ..
398503 .....Raker® (LH)	.....	.013071	.345064	.....	.....	.993015	.993055	.993035	.993215	..See Note 2 ..
398504 .....Raker® (LH)	.....	.013073	.....	.....	.....	.993016	.993056	.993036	.993216	..See Note 2 ..
398505 .....Raker® (LH)	.....	.013075	.....	.....	.....	.993017	.....	.....	.....	..See Note 2 ..
431717 .....SHOOTER®	.013036	.....	.....	.435035	.....	.....	.....	.....	.....	.....
431718 .....SHOOTER®	.013038	.....	.....	.435036	.....	.....	.....	.....	.....	.....
431930 .....SST II® (LH)	.013043	.013067	.345062	.....	.....	.993013	.993053	.993033	.993213	..See Note 2 ..
591389 .....	.012060	.....	.....	.....	.....	.....	.....	.....	.....	.....
591920 .....	.012024	.....	.....	.....	.....	.....	.....	.....	.....	.....
591925 .....	.012076	.....	.....	.....	.....	.....	.....	.....	.....	.....
591978 .....	.012060	.....	.....	.....	.....	.....	.....	.....	.....	.....

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
EVINRUDE, JOHNSON, OMC (continued)										
592038	.012076									
592063	.012060									
592959	.012076									
QA2002X	.011015									
QA2004X	.011016									
QA3008X	.011006		.345031		.992002	.993002	.993042	.993022		..See Note 2 ..
QA3012X	.011007		.345032		.992003	.993003	.993043	.993023	.993203	..See Note 2 ..
QA3016X	.011008		.345033		.992004	.993004	.993044	.993024	.993204	..See Note 2 ..
QA3018X	.011009		.345034		.992005	.993005	.993045	.993025	.993205	..See Note 2 ..
QA3020X	.011010		.345035		.992006	.993006	.993046	.993026	.993206	..See Note 2 ..
QA3030R	.012047	.Black Diamond								
QA3032R	.011001	.Black Diamond								
QA3034R	.011002	.013076	.335030		.992104	.993103	.993143			...106
QA3036R	.011003	.013077	.335031		.992104	.993104	.993144			...106
QA3038R	.011024		.335031		.992104	.993104	.993144			...106
QA3040R	.011004	.013078	.335032		.992105	.993105	.993145			...106
QA3042R	.011025		.335032		.992105	.993105	.993145			...106
QA3046R	.011005		.335033		.992106	.993106	.993146			...106
QA3048R	.011026		.335033		.992106	.993106	.993146			...106
QA3080R	.012036	.013080								
QA3082R	.012037	.013081								
QA3084R	.011027	.013082	.325030							
QA3084R	.012038	.013082	.325030							
QA3088R	.011028	.013083	.325031							
QA3088R	.012039	.013083	.325031							
QA3090R	.011029									
QA3100R	.012024									
QA3102R	.012028									
QA3114R	.012055									
QA3118R	.012056									
QA3122R	.012057									
QA3136R	.012016									
QA3138R	.012030									
QA3150R	.012011	.Black Diamond								
QA3152R	.012013	.Black Diamond								
QA3168R	.012111									
QA3178R	.012008									
QA3190R	.012032									
QA9090R	.012040									
QS5050X	.013052		.345031		.992002	.993002	.993042	.993022		..See Note 2 ..
QS5052X	.013044		.345032		.992003	.993003	.993043	.993023	.993203	..See Note 2 ..
QS5053X			.345062			.993013	.993053	.993033	.993213	..See Note 2 ..
QS5053X	.013043									
QS5054X	.013046		.345033							
QS5055X	.013045		.345063							
QS5056X	.013048		.345034							
QS5057X	.013047		.345064							
QS5058X	.013050		.345035							
QS5070X			.345033		.992002	.993004	.993044	.933024	.993204	..See Note 2 ..
QS5071X			.345063			.993014	.993054	.933034	.993214	..See Note 2 ..
QS5072X			.345034		.992005	.993005	.993045	.993025	.993205	..See Note 2 ..
QS5073X			.345064			.993015	.993055	.993035	.993215	..See Note 2 ..
QS5074X			.345035	.345041	.992006	.993006	.993046	.993026	.993206	..See Note 2 ..
QS5075X			.345065			.993016	.993056	.993036	.993216	..See Note 2 ..
QS5076X			.345036	.345037		.993007				..See Note 2 ..
QS5077X						.993017				..See Note 2 ..
QS5136H	.013028		.335030		.992103	.993103				..See Note 2 ..
QS5138H	.013030		.335031		.992104	.993104				..See Note 2 ..

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
EVINRUDE, JOHNSON, OMC (continued)										
QS5140H .....	.013033	.....	.335032	.....	.992105	.993105	.993145	.....	.....	..See Note 2 ..
QS5142H .....	.013034	.....	.335033	.335034	.992106	.993106	.993146	.....	.....	..See Note 2 ..
QS5144H .....	.....	.....	.....	.335035	.....	.....	.....	.....	.....	.....
TA2002X .....Black Diamond	.011015	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA2230T .....Black Diamond	.032042	.033095	.395929	.....	.....	.....	.993406	.....	.....	....115
TA3030T .....Black Diamond	.012047	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3032T .....Black Diamond	.011001	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3034T .....Black Diamond	.011002	.013076	.335030	.....	.992103	.993103	.993143	.....	.....	....106
TA3036T .....Black Diamond	.011003	.013077	.335031	.....	.992104	.993104	.993144	.....	.....	....106
TA3038T .....Black Diamond	.011024	.013077	.335031	.....	.992104	.993104	.993144	.....	.....	....106
TA3040T .....Black Diamond	.011004	.013078	.335032	.....	.992105	.993105	.993145	.....	.....	....106
TA3150T .....Black Diamond	.012011	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3152T .....Black Diamond	.012013	.....	.....	.....	.....	.....	.....	.....	.....	.....
FORCE, CHRYSLER, U.S. MARINE										
48-16986A45 .....Vengeance	.033016	.033084	.335130	.....	.....	.993103	.993143	.....	.....	..See Note 3 ..
48-16986A5 .....QSS™	.033016	.033084	.335130	.....	.....	.993103	.993143	.....	.....	..See Note 3 ..
48-16988A40 .....QSS™	.033017	.033085	.335131	.....	.....	.993104	.993144	.....	.....	..See Note 3 ..
48-16988A45 .....Vengeance	.033017	.033085	.335131	.....	.....	.993104	.993144	.....	.....	..See Note 3 ..
48-16990A40 .....Laser II™	.033018	.033086	.335132	.....	.....	.993105	.993145	.....	.....	..See Note 3 ..
48-16990A45 .....Laser II™	.033018	.033086	.335132	.....	.....	.993105	.993145	.....	.....	..See Note 3 ..
48-16992A40 .....Laser II™	.033019	.033087	.335133	.....	.....	.993106	.993146	.....	.....	..See Note 3 ..
48-16992A45 .....Laser II™	.033019	.033087	.335133	.....	.....	.993106	.993146	.....	.....	..See Note 3 ..
48-19636A10 .....	.....	.....	.....	.....	.992501	.....	.....	.....	.....	....120
48-19638A40 .....Black Max™	.031049	.....	.....	.....	.992503	.....	.....	.....	.....	....120
48-19639A40 .....	.....	.....	.....	.....	.992504	.....	.....	.....	.....	....120
48-19640A40 .....Black Max™	.031048	.....	.305129	.....	.992505	.....	.....	.....	.....	....120
48-19642A40 .....Black Max™	.031047	.....	.305130	.....	.992506	.....	.....	.....	.....	....120
48-42738A10 .....Black Max™	.032141	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-42740A10 .....Black Max™	.032142	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-64724A1 .....	.031020	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-64724A4 .....	.031020	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-73132A4 .....	.031015	.033088	.....	.....	.....	.....	.....	.....	.....	.....
48-73132A40 .....Black Max™	.031015	.033088	.....	.....	.....	.....	.....	.....	.....	.....
48-73134A4 .....	.031016	.033089	.....	.....	.992405	.....	.993405	.....	.....	....114
48-73134A40 .....Black Max™	.031016	.033089	.....	.....	.992405	.....	.993405	.....	.....	....114
48-73136A4 .....	.031017	.033090	.395129	.....	.992406	.....	.993406	.....	.....	....114
48-73136A40 .....Black Max™	.031017	.033090	.395129	.....	.992406	.....	.993406	.....	.....	....114
48-73138A4 .....	.031018	.033091	.....	.....	.992407	.....	.993407	.....	.....	....114
48-73138A40 .....Black Max™	.031018	.033091	.....	.....	.992407	.....	.993407	.....	.....	....114
48-73140A4 .....	.031019	.033092	.395130	.....	.992408	.....	.993408	.....	.....	....114
48-73140A40 .....Black Max™	.031019	.033092	.395130	.....	.992408	.....	.993408	.....	.....	....114
48-73142A40 .....	.....	.....	.....	.....	.992409	.....	.....	.....	.....	....114
48-73144A4 .....	.031020	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-73144A40 .....Black Max™	.031020	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-76228A4 .....QSS™	.....	.033090	.395129	.....	.....	.....	.993406	.....	.....	....114
48-76228A5 .....Vengeance	.....	.033090	.395129	.....	.....	.....	.993406	.....	.....	....114
48-76230A4 .....QSS™	.033028	.033091	.....	.....	.....	.....	.993407	.....	.....	....114
48-76230A5 .....Vengeance	.033028	.033091	.....	.....	.....	.....	.993407	.....	.....	....114
48-76232A4 .....QSS™	.....	.033092	.395130	.....	.....	.....	.993408	.....	.....	....114
48-76232A5 .....Vengeance	.....	.033092	.395130	.....	.....	.....	.993408	.....	.....	....114
48-77338A40 .....	.031054	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77338A45 .....Black Max™	.031054	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77340A40 .....	.031055	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77340A45 .....Black Max™	.031055	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77342A40 .....	.031041	.033084	.335130	.....	.992103	.993103	.993143	.....	.....	..See Note 3 ..
48-77342A45 .....Black Max™	.031041	.033084	.335130	.....	.992103	.993103	.993143	.....	.....	..See Note 3 ..
48-77344A40 .....	.031042	.033085	.335131	.....	.992104	.993104	.993144	.....	.....	..See Note 3 ..

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					Catalog Page #
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
FORCE, CHRYSLER, U.S. MARINE (continued)										
48-77344A45 .....Black Max™	.031042	.033085	.335131	.....	.992104	.993104	.993144	.....	.....	..See Note 3 ..
48-77346A40 .....	.031043	.033086	.335132	.....	.992105	.993105	.993145	.....	.....	..See Note 3 ..
48-77346A45 .....Black Max™	.031043	.033086	.335132	.....	.992105	.993105	.993145	.....	.....	..See Note 3 ..
48-77348A40 .....	.031044	.033087	.335133	.....	.992106	.993106	.993146	.....	.....	..See Note 3 ..
48-77348A45 .....Black Max™	.031044	.033087	.335133	.....	.992106	.993106	.993146	.....	.....	..See Note 3 ..
48-77350A40 .....	.031045	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77350A45 .....Black Max™	.031045	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77350A45 .....Black Max™	.031045	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-79792A4 .....QSS™	.033001	.033089	.....	.....	.992405	.....	.993405	.....	.....	.....114
48-79792A5 .....Vengeance	.033001	.033089	.....	.....	.992405	.....	.993405	.....	.....	.....114
48-816702A40 .....	.031056	.033089	.....	.....	.992405	.....	.993405	.....	.....	.....114
48-816704A40 .....	.031057	.033090	.395129	.....	.992406	.....	.993406	.....	.....	.....114
48-816706A40 .....	.031058	.033091	.....	.....	.992407	.....	.993407	.....	.....	.....114
48-819334A40 .....	.072133	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-819335A40 .....	.072132	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-819336A40 .....	.072131	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-819337A40 .....	.072014	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-819337A45 .....	.072014	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-855858A5 .....Vengeance	.031057	.033090	.....	.....	.992406	.....	.993406	.....	.....	.....114
48-85632A40 .....Black Max™	.031053	.....	.....	.....	.992404	.....	.993405	.....	.....	.....114
48-FP19 .....	.072017	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP372 .....	.072033	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP488 .....Black Max™	.072123	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP6430 .....Black Max™	.072026	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP669-1 .....	.071035	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP669-2 .....	.071035	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP669-3 .....	.071035	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP685-1 .....	.071036	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP685-2 .....	.071036	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP685-3 .....	.071036	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP686-1 .....	.071037	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP686-3 .....	.071037	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP686-4 .....	.071037	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP692-1 .....	.072127	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP692-2 .....	.072127	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP692-3 .....	.072127	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP694 .....	.071038	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-FP70 .....Black Max™	.072024	.....	.....	.....	.....	.....	.....	.....	.....	.....
FA282265 .....	.072132	.....	.....	.....	.....	.....	.....	.....	.....	.....
FA287265 .....	.072131	.....	.....	.....	.....	.....	.....	.....	.....	.....
FA378265 .....	.072132	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP273 .....	.072133	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP274 .....	.072014	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP276 .....	.072014	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP277 .....	.072131	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP278 .....	.072014	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP282 .....	.072132	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP286 .....	.072026	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP287 .....	.072131	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP293 .....	.072132	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP319 .....	.072121	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP327 .....	.072121	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP328 .....	.072014	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP330 .....	.072026	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP366 .....	.072014	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP372 .....	.072033	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP378 .....	.072132	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP383 .....	.072034	.....	.....	.....	.....	.....	.....	.....	.....	.....

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
FORCE, CHRYSLER, U.S. MARINE (continued)										
FP389 .....	.072032	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP395 .....Black Max™	.072121	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP408 .....	.072026	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP472 .....Black Max™	.072122	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP501 .....	.072054	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP509 .....	.073008	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP510 .....	.073004	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP511 .....	.073010	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP519 .....	.072055	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP523 .....	.072107	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP524 .....	.072108	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP526 .....	.072109	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP539 .....	.073003	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP540 .....	.073004	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP623 .....	.072107	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP654 .....	.072108	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP664 .....	.073007	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP665 .....	.071035	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP668 .....	.073008	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP669 .....	.071035	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP669-1 .....	.071035	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP682 .....	.072127	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP685 .....	.072128	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP685-1 .....	.072128	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP686 .....	.072129	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP686-1 .....	.071037	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP686-2 .....	.072129	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP692 .....	.072127	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP692-1 .....	.072127	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP694 .....	.071038	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP696 .....	.073010	.....	.....	.....	.....	.....	.....	.....	.....	.....
FP699 .....	.073007	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPM736 .....	.031020	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPM738 .....	.031019	.033092	.....	.....	.992408	.....	.993408	.....	.....	.....114
FPM752 .....QSS™	.033028	.033091	.....	.....	.992407	.....	.993407	.....	.....	.....114
FPM754 .....QSS™	.033001	.033089	.....	.....	.992405	.....	.993405	.....	.....	.....114
FPM756 .....	.031015	.033088	.....	.....	.....	.....	.....	.....	.....	.....
FPS501 .....	.072054	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPS509 .....	.073008	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPS510 .....	.073004	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPS511 .....	.073010	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPS519 .....	.072055	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPS523 .....	.072107	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPS524 .....	.072108	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPS526 .....	.072109	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPS623 .....	.072107	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPS625 .....	.072108	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPS626 .....	.072109	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPS654 .....	.072108	.....	.....	.....	.....	.....	.....	.....	.....	.....
FPS686 .....	.072129	.....	.....	.....	.....	.....	.....	.....	.....	.....
FS501265 .....	.072054	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2028X .....	.031043	.....	.....	.....	.992105	.993105	.993145	.....	.....	.....See Note 3
QA2030X .....	.031054	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2032X .....	.031055	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2034X .....	.031041	.....	.....	.....	.992103	.993103	.993143	.....	.....	.....See Note 3
QA2036X .....	.031042	.....	.....	.....	.992104	.993104	.993144	.....	.....	.....See Note 3
QA2040X .....	.031044	.....	.....	.....	.992106	.993106	.993146	.....	.....	.....See Note 3
QA2042X .....	.031045	.....	.....	.....	.....	.....	.....	.....	.....	.....

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
FORCE, CHRYSLER, U.S. MARINE (continued)										
QA2060R	.032141									
QA2064R	.031015	.033088								
QA2066R	.032142									
QA2070R	.031053	.033089			.992405		.993405			.114
QA2072R	.031056	.033089			.992405		.993405			.114
QA2074R	.031016	.033089			.992405		.993405			.114
QA2076R	.031057	.033090	.395129		.992406		.993406			.114
QA2078R	.031017	.033090	.395129		.992406		.993406			.114
QA2080R	.031058	.033091			.992407		.993407			.114
QA2082R	.031018	.033091			.992407		.993407			.114
QA2084R	.031019	.033092	.395130		.992408		.993408			.114
QA2088R	.031020									
QA2102R	.031049									
QA2106R	.031048		.305129							
QA2108R	.031047		.305130							
QS5116X	.033016		.335130		.992103	.993103	.993146			.102
QS5118X	.033017		.335131		.992104	.993104	.993144			.102
QS5120X	.033018		.335132		.992105	.993105	.993145			.102
QS5122X	.033019		.335133	.335134	.992106	.993106	.993146			.102
QS5124X				.335135						
QS5164R	.033001									
QS5164R		.033089					.993405			.114
QS5166R		.033090	.395129				.993406			.114
QS5168R	.033028	.033091	.395130				.993407			.114
QS5168R		.033091	.395130				.993407			.114
QS5170R		.033092	.395130				.993408			.114
TA2034	.Black Diamond	.031041	.033084		.992103	.993103	.993143			.See Note 3
TA2036	.Black Diamond	.031042	.033085		.992104	.993104	.993144			.See Note 3
TA2038	.Black Diamond	.031043	.033086		.992105	.993105	.993145			.See Note 3
TA2040	.Black Diamond	.031044	.033087		.992106	.993106	.993146			.See Note 3
TA2060T	.Black Diamond	.032141								
TA2064T	.Black Diamond	.031015	.033088							
TA2070T	.Black Diamond	.031053								
TA2072T	.Black Diamond	.031053								
TA2076T	.Black Diamond	.031057	.033090	.395129	.992406		.993406			.114
TA2080T	.Black Diamond	.031058	.033091		.992407		.993407			.114
TA2084T	.Black Diamond	.031019	.033092	.395130	.992408		.993408			.114
TA2102T	.Black Diamond	.031049								
TA2106T	.Black Diamond	.031048								
TS1116	.Silverado	.033016	.033084	.335130		.993103	.993143			.See Note 3
TS1118	.Silverado	.033017	.033085	.335131		.993104	.993144			.See Note 3
TS1120	.Lightspeed		.033086	.335132		.993105	.993145			.See Note 3
TS1122	.Lightspeed		.033087	.335133		.993106	.993146			.See Note 3
TS1164T	.Silverado	.033001	.033089				.993405			.114
TS1166T	.Silverado		.033090	.395129			.993406			.114
TS1168T	.Silverado	.033028	.033091				.993407			.114
HONDA										
08M60-ZW7-A00		.033084	.335130			.993103	.993143			.See Note 3
08M60-ZW7-A10		.033085	.335131			.993104	.993144			.See Note 3
08M60-ZW7-A20		.033086	.335132			.993105	.993145			.See Note 3
08M60-ZW7-A30		.033087	.335133			.993106	.993146			.See Note 3
58110-ZV4-300	.102005									
58110-ZV4-DT15	.112004									
58110-ZV5-E00		.033097	.395930				.993408			.113
58110-ZV5-E10		.033096					.993407			.113
58110-ZV5-E20		.033095	.395929				.993406			.113
58110-ZV5-E30		.033094					.993405			.113

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
HONDA (continued)										
58130-881-840ZA .....	.012109	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-881-840ZB .....	.012109	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-935-000N .....	.012109	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-935-600N .....	.012109	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZV4-000ZA .....	.102005	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZV4-010ZA .....	.102005	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZV4-020ZA .....	.102005	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZV4-030ZA .....	.102005	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZV4-030ZB .....	.102005	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZV4-700ZA .....	.102004	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZV4-701ZA .....	.102004	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZV4-702ZA .....	.102004	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZV4-703ZA .....	.102004	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZV4-703ZB .....	.102004	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZV5-000ZA .....	.032042	.033095	.395929	.....	.993406	.....	.993406	.....	.....	.....113
58130-ZV5-011AH .....	.....	.....	.....	.....	.992404	.....	.993404	.....	.....	.....113
58130-ZV5-012AH .....	.....	.....	.....	.....	.992405	.....	.993405	.....	.....	.....113
58130-ZV5-013AH .....	.....	.....	.....	.....	.992406	.....	.993406	.....	.....	.....113
58130-ZV5-014AH .....	.....	.....	.....	.....	.992407	.....	.993407	.....	.....	.....113
58130-ZV5-015AH .....	.....	.....	.....	.....	.992408	.....	.993408	.....	.....	.....113
58130-ZV5-850ZA .....	.032043	.033094	.....	.....	.992405	.....	.993405	.....	.....	.....113
58130-ZV5-860ZA .....	.032045	.033093	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZV5-870ZA .....	.032040	.033097	.395930	.....	.992408	.....	.993408	.....	.....	.....113
58130-ZV7-009AH .....	.....	.....	.....	.....	.992501	.....	.....	.....	.....	.....119
58130-ZV7-010AH .....	.....	.....	.....	.....	.992502	.....	.....	.....	.....	.....119
58130-ZV7-011AH .....	.....	.....	.....	.....	.992503	.....	.....	.....	.....	.....119
58130-ZV7-012AH .....	.....	.....	.....	.....	.992504	.....	.....	.....	.....	.....119
58130-ZW1-V01 .....	.033017	.033085	.335131	.....	.....	.993104	.993144	.....	.....	.....See Note 3
58130-ZW1-V11 .....	.033018	.033086	.335132	.....	.....	.993105	.993145	.....	.....	.....See Note 3
58130-ZW1-V31 .....	.033019	.033087	.335133	.....	.....	.993106	.993146	.....	.....	.....See Note 3
58130-ZW1-W01ZA .....	.031054	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZW1-W11ZA .....	.031055	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZW1-W21ZA .....	.031041	.033084	.335130	.....	.992103	.993103	.993143	.....	.....	.....See Note 3
58130-ZW1-W31ZA .....	.031042	.033085	.335131	.....	.992104	.993104	.993144	.....	.....	.....See Note 3
58130-ZW1-W41ZA .....	.031044	.033087	.335133	.....	.992106	.993106	.993146	.....	.....	.....See Note 3
58130-ZW1-W51ZA .....	.031045	.....	.....	.....	.....	.....	.....	.....	.....	.....
58130-ZW1-W61ZA .....	.031043	.033086	.335132	.....	.992105	.993105	.993145	.....	.....	.....See Note 3
58130-ZW1-W91 .....	.033016	.033084	.335130	.....	.....	.993103	.993143	.....	.....	.....See Note 3
58133-ZV5-010AH .....	.....	.033093	.....	.....	.....	.....	.....	.....	.....	.....
58133-ZV5-012AH .....	.....	.033094	.....	.....	.....	.....	.993405	.....	.....	.....113
58133-ZV5-013AH .....	.....	.033095	.395929	.....	.....	.....	.993406	.....	.....	.....113
58133-ZV5-014AH .....	.....	.033096	.....	.....	.....	.....	.993407	.....	.....	.....113
58133-ZV5-015AH .....	.....	.033096	.....	.....	.....	.....	.993407	.....	.....	.....113
58133-ZW1-A15AH .....	.....	.033084	.335130	.....	.992103	.993103	.993143	.....	.....	.....See Note 3
58133-ZW1-A17AH .....	.....	.033085	.335131	.....	.992104	.993104	.993144	.....	.....	.....See Note 3
58133-ZW1-A19AH .....	.....	.033086	.335132	.....	.992105	.993105	.993145	.....	.....	.....See Note 3
58134-ZV5-009AH .....	.....	.....	.....	.....	.992402	.....	.....	.....	.....	.....113
58134-ZV5-010AH .....	.....	.....	.....	.....	.992403	.....	.....	.....	.....	.....113
QA2028X .....	.031043	.....	.....	.....	.992105	.993105	.993145	.....	.....	.....See Note 3
QA2030X .....	.031054	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2032X .....	.031055	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2034X .....	.031041	.....	.....	.....	.992103	.993103	.993143	.....	.....	.....See Note 3
QA2036X .....	.031042	.....	.....	.....	.992104	.993104	.993144	.....	.....	.....See Note 3
QA2040X .....	.031044	.....	.....	.....	.992106	.993106	.993146	.....	.....	.....See Note 3
QA2042X .....	.031045	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2064R .....	.032044	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2064R .....	.032045	.033093	.....	.....	.....	.....	.....	.....	.....	.....
QA2078R .....	.032042	.033095	.395929	.....	.992406	.....	.993406	.....	.....	.....113

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
HONDA (continued)										
QA2078R .....	.032043	.033094	.....	.....	.992405	.....	.993405	.....	.....	.....113
QA2082R .....	.032041	.033096	.....	.....	.992407	.....	.993407	.....	.....	.....113
QA2084R .....	.032040	.033097	.395930	.....	.992408	.....	.993408	.....	.....	.....113
QA2084R .....	.032039	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2226R .....	.032044	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2230R ..... .Black Diamond	.032042	.033095	.395929	.....	.992406	.....	.993406	.....	.....	.....113
QA2232R .....	.032041	.033096	.....	.....	.992407	.....	.993407	.....	.....	.....113
QA2234R .....	.032040	.033097	.935930	.....	.992408	.....	.993408	.....	.....	.....113
QA3150R ..... .Black Diamond	.012011	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3152R ..... .Black Diamond	.012013	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3902R .....	.102003	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3906R .....	.102004	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3914R .....	.102005	.....	.....	.....	.....	.....	.....	.....	.....	.....
QS5116X .....	.033016	.....	.335130	.....	.992103	.993103	.993143	.....	.....	.....102
QS5118X .....	.033017	.....	.335131	.....	.992104	.993104	.993144	.....	.....	.....102
QS5120X .....	.033018	.....	.335132	.....	.992105	.993105	.993145	.....	.....	.....102
QS5122X .....	.033019	.....	.335133	.....	.992106	.993106	.993146	.....	.....	.....102
QS5164R .....	.....	.033094	.....	.....	.992405	.....	.993405	.....	.....	.....113
QS5164R .....	.113001	.033094	.....	.....	.992405	.....	.993405	.....	.....	.....113
QS5166R .....	.....	.033095	.395929	.....	.992406	.....	.993406	.....	.....	.....113
QS5168R .....	.....	.033096	.....	.....	.992407	.....	.993407	.....	.....	.....113
QS5170R .....	.....	.033097	.395930	.....	.992408	.....	.993408	.....	.....	.....113
TA3150T ..... .Black Diamond	.012011	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3152T ..... .Black Diamond	.012013	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3902T ..... .Black Diamond	.102003	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3906T ..... .Black Diamond	.102003	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3914T ..... .Black Diamond	.102005	.....	.....	.....	.....	.....	.....	.....	.....	.....
MERCURY, MARINER, MERCUISER										
48-11070A40 ..... .Laser™	.....	.033078	.....	.....	.....	.993005	.993045	.993025	.993205	.....102
48-11074A40 ..... .Laser™	.....	.033080	.....	.....	.....	.993006	.993046	.993026	.993206	.....102
48-11320A40 .....	.031050	.033072	.....	.....	.992002	.993002	.993042	.993022	.....	.....102
48-11322A40 .....	.031051	.033074	.....	.....	.992003	.993003	.993043	.993023	.993203	.....102
48-11324A40 .....	.031052	.033076	.....	.....	.992004	.993004	.993044	.993024	.993204	.....102
48-11324A45 ..... .Black Max™	.031052	.033076	.....	.....	.992004	.993004	.993044	.993024	.993204	.....102
48-13242A5 ..... .Mirage®	.033052	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13242A50 ..... .Mirage®	.033052	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13243A5 ..... .Mirage®(LH)	.033053	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13243A50 ..... .Mirage®(LH)	.033053	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13244A5 ..... .Mirage®	.033054	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13244A50 ..... .Mirage®	.033054	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13245A5 ..... .Mirage®(LH)	.033055	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13245A50 ..... .Mirage®(LH)	.033055	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13247A5 ..... .Mirage®(LH)	.033057	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13247A50 ..... .Mirage®(LH)	.033057	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13248A5 ..... .Mirage®	.033058	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13248A50 ..... .Mirage®	.033058	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13701A40 ..... .Mirage®(LH)	.033029	.....	.345163	.....	.....	.....	.....	.....	.....	.....
48-13701A41 ..... .Mirage®(LH)	.033029	.....	.345163	.....	.....	.....	.....	.....	.....	.....
48-13701A45 .... .Mirage®Plus(LH)	.033029	.....	.345163	.....	.....	.....	.....	.....	.....	.....
48-13702A40 ..... .Mirage®	.033032	.....	.345134	.....	.....	.....	.....	.....	.....	.....
48-13702A41 ..... .Mirage®	.033032	.....	.345134	.....	.....	.....	.....	.....	.....	.....
48-13702A45 ..... .Mirage®Plus	.033032	.....	.345134	.....	.....	.....	.....	.....	.....	.....
48-13702A46 ..... .Mirage®Plus	.033032	.....	.345134	.....	.....	.....	.....	.....	.....	.....
48-13702A55 ..... .Mirage®Plus	.033054	.....	.345134	.....	.....	.....	.....	.....	.....	.....
48-13703A40 ..... .Mirage®(LH)	.033031	.....	.345164	.....	.....	.....	.....	.....	.....	.....
48-13703A41 ..... .Mirage®(LH)	.033031	.....	.345164	.....	.....	.....	.....	.....	.....	.....
48-13703A45 .... .Mirage®Plus(LH)	.033031	.....	.345164	.....	.....	.....	.....	.....	.....	.....

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
MERCURY, MARINER, MERCURISER (continued)										
48-13703A55Mirage®Plus(LH)	.033053	.....	.345164	.....	.....	.....	.....	.....	.....	.....
48-13704A40Mirage®	.033034	.....	.345135	.....	.....	.....	.....	.....	.....	.....
48-13704A41Mirage®	.033034	.....	.345135	.....	.....	.....	.....	.....	.....	.....
48-13704A45Mirage®Plus	.033034	.....	.345135	.....	.....	.....	.....	.....	.....	.....
48-13704A46Mirage®Plus	.033034	.....	.345135	.....	.....	.....	.....	.....	.....	.....
48-13705A40Mirage®(LH)	.033033	.....	.345165	.....	.....	.....	.....	.....	.....	.....
48-13705A41Mirage®(LH)	.033033	.....	.345165	.....	.....	.....	.....	.....	.....	.....
48-13705A45Mirage®Plus(LH)	.033033	.....	.345165	.....	.....	.....	.....	.....	.....	.....
48-13705A55Mirage®Plus(LH)	.033033	.....	.345165	.....	.....	.....	.....	.....	.....	.....
48-13706A40Mirage®	.033036	.....	.345136	.....	.....	.....	.....	.....	.....	.....
48-13706A41Mirage®	.033036	.....	.345136	.....	.....	.....	.....	.....	.....	.....
48-13706A45Mirage®Plus	.033036	.....	.345136	.....	.....	.....	.....	.....	.....	.....
48-13706A46Mirage®Plus	.033036	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13707A41Mirage®(LH)	.033035	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13707A45Mirage®Plus(LH)	.033035	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-13707A55Mirage®Plus(LH)	.033057	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-137706A55Mirage®Plus	.033058	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-16312A4QSS™	.033002	.033072	.345131	.....	.....	.993002	.993042	.993022	.....	.....102.....
48-16312A45Vengeance	.033002	.033072	.345131	.....	.....	.993002	.993042	.993022	.....	.....102.....
48-16312A46Vengeance	.033002	.033072	.345131	.....	.....	.993002	.993042	.993022	.....	.....102.....
48-16312A5QSS™	.033002	.033072	.345131	.....	.....	.993002	.993042	.993022	.....	.....102.....
48-16314A4QSS™	.033003	.033074	.345132	.....	.....	.993003	.993043	.993023	.993203	.....102.....
48-16314A45Vengeance	.033003	.033074	.345132	.....	.....	.993003	.993043	.993023	.993203	.....102.....
48-16314A46Vengeance	.033003	.033074	.345132	.....	.....	.993003	.993043	.993023	.993203	.....102.....
48-16314A5QSS™	.033003	.033074	.345132	.....	.....	.993003	.993043	.993023	.993203	.....102.....
48-16315A4QSS™ (LH)	.....	.033075	.345162	.....	.....	.993013	.993053	.993033	.993213	.....102.....
48-16315A45Vengeance(LH)	.....	.033075	.345162	.....	.....	.993013	.993053	.993033	.993213	.....102.....
48-16315A5QSS™ (LH)	.....	.033075	.345162	.....	.....	.993013	.993053	.993033	.993213	.....102.....
48-16316A4QSS™	.033004	.033076	.345133	.....	.....	.993004	.993044	.993024	.993204	.....102.....
48-16316A45Vengeance	.033004	.033076	.345133	.....	.....	.993004	.993044	.993024	.993204	.....102.....
48-16316A46Vengeance	.033004	.033076	.345133	.....	.....	.993004	.993044	.993024	.993204	.....102.....
48-16316A5QSS™	.033004	.033076	.345133	.....	.....	.993004	.993044	.993024	.993204	.....102.....
48-16317A4QSS™ (LH)	.....	.033077	.345163	.....	.....	.993014	.993054	.993034	.993214	.....102.....
48-16317A45Vengeance(LH)	.....	.033077	.345163	.....	.....	.993014	.993054	.993034	.993214	.....102.....
48-16317A5QSS™ (LH)	.....	.033077	.345163	.....	.....	.993014	.993054	.993034	.993214	.....102.....
48-16318A4QSS™	.033005	.033078	.345134	.....	.....	.993005	.993045	.993025	.993205	.....102.....
48-16318A45Vengeance	.033005	.033078	.345134	.....	.....	.993005	.993045	.993025	.993205	.....102.....
48-16318A46Vengeance	.033005	.033078	.345134	.....	.....	.993005	.993045	.993025	.993205	.....102.....
48-16318A5QSS™	.033005	.033078	.345134	.....	.....	.993005	.993045	.993025	.993205	.....102.....
48-16319A4QSS™ (LH)	.....	.033079	.345164	.....	.....	.993015	.993055	.993035	.993215	.....102.....
48-16319A45Vengeance(LH)	.....	.033079	.345164	.....	.....	.993015	.993055	.993035	.993215	.....102.....
48-16319A5QSS™ (LH)	.....	.033079	.345164	.....	.....	.993015	.993055	.993035	.993215	.....102.....
48-16320A4QSS™	.033006	.033080	.345135	.....	.....	.993006	.993046	.993026	.993206	.....102.....
48-16320A4QSS™	.033006	.033080	.345135	.....	.....	.993006	.993046	.993026	.993206	.....102.....
48-16320A45QSS™	.033006	.033080	.345135	.....	.....	.993006	.993046	.993026	.993206	.....102.....
48-16320A45Vengeance	.033006	.033080	.345135	.....	.....	.993006	.993046	.993026	.993206	.....102.....
48-16320A46Vengeance	.033006	.033080	.345135	.....	.....	.993006	.993046	.993026	.993206	.....102.....
48-16320A5QSS™	.033006	.033080	.345135	.....	.....	.993006	.993046	.993026	.993206	.....102.....
48-16320A5QSS™	.033006	.033080	.345135	.....	.....	.993006	.993046	.993026	.993206	.....102.....
48-16321A4QSS™ (LH)	.....	.033081	.345165	.....	.....	.993016	.993056	.993036	.993216	.....102.....
48-16321A45Vengeance(LH)	.....	.033081	.345165	.....	.....	.993016	.993056	.993036	.993216	.....102.....
48-16321A5QSS™ (LH)	.....	.033081	.345165	.....	.....	.993016	.993056	.993036	.993216	.....102.....
48-16322A4QSS™	.....	.033082	.345136	.....	.....	.993007	.....	.....	.....	.....102.....
48-16322A45 . . . . .	.....	.033085	.345136	.....	.....	.993104	.993144	.....	.....	.....See Note 3.....
48-16322A46Vengeance	.....	.033082	.345136	.....	.....	.993007	.....	.....	.....	.....102.....
48-16436A40 . . . . .	.031063	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-16436A45Black Max™	.031063	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-16438A40 . . . . .	.031050	.033072	.....	.....	.992002	.993002	.993042	.993022	.....	.....102.....

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
MERCURY, MARINER, MERCURISER (continued)										
48-16438A45Black Max™	.031050	.033072	. . . . .	. . . . .	.992002	.993002	.993042	.993022	. . . . .	. . . . .102
48-16440A40 . . . . .	.031051	.033074	. . . . .	. . . . .	.992003	.993003	.993043	.993023	.993203	. . . . .102
48-16440A45Black Max™	.031051	.033074	. . . . .	. . . . .	.992003	.993003	.993043	.993023	.993203	. . . . .102
48-16543A40Laser II™(LH)	. . . . .	.033077	.345163	. . . . .	. . . . .	.993014	.993054	.993034	.993214	. . . . .102
48-16543A41Laser II™(LH)	. . . . .	.033077	.345163	. . . . .	. . . . .	.993014	.993054	.993034	.993214	. . . . .102
48-16543A45Laser II™(LH)	. . . . .	.033077	.345163	. . . . .	. . . . .	.993014	.993054	.993034	.993214	. . . . .102
48-16544A40Laser II™	. . . . .	.033076	.345133	. . . . .	. . . . .	.993004	.993044	.993024	.993204	. . . . .102
48-16544A41Laser II™	. . . . .	.033076	.345133	. . . . .	. . . . .	.993004	.993044	.993024	.993204	. . . . .102
48-16544A45Laser II™	. . . . .	.033076	.345133	. . . . .	. . . . .	.993004	.993044	.993024	.993204	. . . . .102
48-16544A46Laser II™	. . . . .	.033076	.345133	. . . . .	. . . . .	.993004	.993044	.993024	.993204	. . . . .102
48-16545A40Laser II™(LH)	. . . . .	.033079	.345164	. . . . .	. . . . .	.993005	.993045	.993025	.993205	. . . . .102
48-16545A41Laser II™(LH)	. . . . .	.033079	.345164	. . . . .	. . . . .	.993005	.993045	.993025	.993205	. . . . .102
48-16545A45Laser II™(LH)	. . . . .	.033079	.345164	. . . . .	. . . . .	.993005	.993045	.993025	.993205	. . . . .102
48-16546A40Laser II™	. . . . .	.033078	.345134	. . . . .	. . . . .	.993005	.993045	.993025	.993205	. . . . .102
48-16546A41Laser II™	. . . . .	.033078	.345134	. . . . .	. . . . .	.993005	.993045	.993025	.993205	. . . . .102
48-16546A45Laser II™	. . . . .	.033078	.345134	. . . . .	. . . . .	.993005	.993045	.993025	.993205	. . . . .102
48-16547A40Laser II™(LH)	. . . . .	.033081	.345165	. . . . .	. . . . .	.993016	.993056	.993036	.993216	. . . . .102
48-16547A41Laser II™(LH)	. . . . .	.033081	.345165	. . . . .	. . . . .	.993016	.993056	.993036	.993216	. . . . .102
48-16547A45Laser II™(LH)	. . . . .	.033081	.345165	. . . . .	. . . . .	.993016	.993056	.993036	.993216	. . . . .102
48-16548A40Laser II™	. . . . .	.033080	.345135	. . . . .	. . . . .	.993006	.993046	.993026	.993206	. . . . .102
48-16548A41Laser II™	. . . . .	.033080	.345135	. . . . .	. . . . .	.993006	.993046	.993026	.993206	. . . . .102
48-16548A45Laser II™	. . . . .	.033080	.345135	. . . . .	. . . . .	.993006	.993046	.993026	.993206	. . . . .102
48-16549A40Laser II™(LH)	. . . . .	.033083	. . . . .	. . . . .	. . . . .	.993017	. . . . .	. . . . .	. . . . .	. . . . .102
48-16549A41Laser II™(LH)	. . . . .	.033083	. . . . .	. . . . .	. . . . .	.993017	. . . . .	. . . . .	. . . . .	. . . . .102
48-16549A45Laser II™(LH)	. . . . .	.033083	. . . . .	. . . . .	. . . . .	.993017	. . . . .	. . . . .	. . . . .	. . . . .102
48-16550A40Laser II™	. . . . .	.033082	.345136	. . . . .	. . . . .	.993007	. . . . .	. . . . .	. . . . .	. . . . .102
48-16550A41Laser II™	. . . . .	.033082	.345136	. . . . .	. . . . .	.993007	. . . . .	. . . . .	. . . . .	. . . . .102
48-16550A45Laser II™	. . . . .	.033082	.345136	. . . . .	. . . . .	.993007	. . . . .	. . . . .	. . . . .	. . . . .102
48-16986A45Vengeance	.033016	.033084	. . . . .	. . . . .	. . . . .	.993007	. . . . .	. . . . .	. . . . .	. . . . .102
48-16986A5QSS™	.033016	.033084	. . . . .	. . . . .	. . . . .	.993007	. . . . .	. . . . .	. . . . .	. . . . .102
48-16988A45Vengeance	.033017	.033085	. . . . .	. . . . .	. . . . .	.993104	.993144	. . . . .	. . . . .	. . . . .See Note 3 . . .
48-16988A5QSS™	.033017	.033085	. . . . .	. . . . .	. . . . .	.993104	.993144	. . . . .	. . . . .	. . . . .See Note 3 . . .
48-16990A40Laser II™	.033018	.033086	.335132	. . . . .	. . . . .	.993105	.993145	. . . . .	. . . . .	. . . . .See Note 3 . . .
48-16990A45Laser II™	.033018	.033086	.335132	. . . . .	. . . . .	.993105	.993145	. . . . .	. . . . .	. . . . .See Note 3 . . .
48-16992A40Laser II™	.033019	.033087	.335133	. . . . .	. . . . .	.993106	.993146	. . . . .	. . . . .	. . . . .See Note 3 . . .
48-16992A45Laser II™	.033019	.033087	.335133	. . . . .	. . . . .	.993106	.993146	. . . . .	. . . . .	. . . . .See Note 3 . . .
48-17874A12 . . . . .	.032050	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-19638A40Black Max™	.031049	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-19640A40Black Max™	.031048	. . . . .	.305129	. . . . .	.992505	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .120
48-19642A40Black Max™	.031047	. . . . .	.305130	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-22575A2 . . . . .	.032077	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-30388A1 . . . . .	.032093	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-30390A1 . . . . .	.032092	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-30396A1 . . . . .	.032089	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-30396A3 . . . . .	.032089	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-30396A4 . . . . .	.032089	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-31072A4 . . . . .	.032092	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-31080A1 . . . . .	.032093	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-31082A1 . . . . .	.032092	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-31454A3 . . . . .	.032094	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-31456A3 . . . . .	.032093	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-31458A3 . . . . .	.032092	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-32180A1 . . . . .	.032087	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-32180A4 . . . . .	.032087	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-32182A1 . . . . .	.032087	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-32182A4 . . . . .	.032087	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-32184A1 . . . . .	.032086	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
48-32184A4 . . . . .	.032086	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
MERCURY, MARINER, MERCUISER (continued)										
48-32186A1	.032086									
48-32188A1	.032085									
48-32188A4	.032085									
48-32190A1	.032085									
48-32192A1	.032084									
48-32192A4	.032084									
48-32264A3	.032092									
48-32386A3	.032094									
48-32386A4	.031045									
48-32388A3	.032093									
48-32390A3	.032091									
48-32392A3	.032090									
48-32392A4	.032091									
48-32746A3	.032094									
48-32748A3	.032093									
48-32750A3	.032093									
48-33480A1	.032135									
48-33482A1	.032136									
48-33772A1	.032084									
48-33772A4	.032084									
48-33774A1	.032084									
48-33774A4	.032084									
48-35936A3	.032090									
48-35936A4	.032039									
48-36008A1	.031039	.033080			.992006	.993006	.993042	.993022		.102
48-36010A1	.031038	.033078			.992005	.993005	.993045	.993025	.993205	.102
48-36010A4	.031039	.033080			.992006	.993006	.993046	.993026	.993206	.102
48-36012A1	.031037	.033076			.992004	.993004	.993044	.993024	.993204	.102
48-36012A4	.031038	.033078			.992005	.993005	.993045	.993025	.993205	.102
48-36012A5	.031036	.033074			.992002	.993003	.993043	.993023	.993203	.102
48-36014A1	.031036	.033074			.992002	.993003	.993043	.993023	.993203	.102
48-36014A4	.031037	.033076			.992004	.993004	.993044	.993024	.993204	.102
48-36016A4	.031036	.033074			.992002	.993003	.993043	.993023	.993203	.102
48-36018A1	.031034									
48-36020A1	.031034									
48-36020A4	.031034									
48-36022A1	.031021									
48-36022A4	.031021									
48-37902A4	.032093									
48-38090A1	.032087									
48-38094A1	.032086									
48-38094A4	.032087									
48-38098A1	.032085									
48-38098A4	.032086									
48-42518A10	.032060									
48-42518A11	.032060									
48-42520A10	.032058									
48-42520A11	.032058									
48-42520A12	.032058									
48-42522A10	.032052									
48-42522A11	.032052									
48-42522A12	.032052									
48-42738A10	.032141									
48-42740A10	.032142									
48-43584A40	.031049									
48-43586A40	.031048									
48-43590A40	.031047									
48-47670A1	.032020									

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
MERCURY, MARINER, MERCUISER (continued)										
48-47670A10	.032020									
48-47670A3	.032020									
48-47922A1	.032021									
48-47922A10	.032021									
48-47926A1	.032019									
48-47926A10	.032019									
48-49632A3	.032093									
48-49632A4	.032094									
48-49634A1	.031037	.033076			.992004	.993004	.993044	.993024	.993204	.102
48-49634A4	.031037	.033076			.992004	.993004	.993044	.993024	.993204	.102
48-52008A3	.031045									
48-52008A4	.031045									
48-52012A3	.031045									
48-53892A3	.032094									
48-53896A3	.032093									
48-53896A4	.031043	.033086			.992105	.993105	.993145			.See Note 3
48-53900A3	.032092									
48-54723A1	.032114									
48-54724A1	.032113									
48-54725A1	.032116									
48-54726A1	.032115									
48-54727A1	.032118									
48-54727A4	.032118									
48-56234A1	.032099									
48-56234A4	.032099									
48-56236A1	.032099									
48-56236A4	.032099									
48-56254A1	.032099									
48-56254A4	.032099									
48-57262A1	.032117									
48-57263A1	.032118									
48-58422A1	.031036	.033074			.992003	.993003	.993043	.993023	.993203	.102
48-58422A4	.031037	.033076			.992004	.993004	.993044	.993024	.993204	.102
48-58424A4	.031038	.033078			.992005	.993005	.993045	.993025	.993205	.102
48-58426A1	.031038	.033078			.992005	.993005	.993045	.993025	.993205	.102
48-58426A4	.031039	.033080			.992006	.993006	.993046	.993026	.993206	.102
48-58826A3	.032090									
48-58826A4	.032091									
48-61812A1	.032045	.033093								
48-61812A4	.032045	.033093								
48-61814A1	.032044	.033094					.993405			.114
48-61814A4	.032044	.033094					.993405			.114
48-61816A1	.032043	.033095					.993406			.114
48-61816A4	.032043	.033095					.993406			.114
48-61818A1	.032042	.033095					.993406			.114
48-61818A4	.032042	.033095					.993406			.114
48-61820A1	.032041	.033096					.993407			.114
48-61820A4	.032041	.033096					.993407			.114
48-61822A1	.032040	.033097					.993408			.114
48-61822A4	.032040	.033097					.993408			.114
48-61824A1	.032039									
48-62274A1	.032045	.033093								
48-62274A4	.032045	.033093								
48-63303A1	.032114									
48-63304A1	.032113									
48-63305A1	.032116									
48-63306A1	.032115									
48-63456A1	.032099									

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
MERCURY, MARINER, MERCUISER (continued)										
48-63456A4	.032099									
48-63494A1	.032014									
48-63494A10	.032014									
48-63538A1	.032039									
48-63540A1	.032040	.033097					.993408			
48-63542A1	.032041	.033096					.993407			
48-63542A4	.032041	.033096					.993407			
48-63544A1	.032042	.033095					.993406			
48-63544A4	.032042	.033095					.993406			
48-63546A4	.032043	.033095					.993406			
48-64724A1	.031020									
48-64724A4	.031020									
48-65022A1	.032092									
48-65024A1	.032093									
48-65480A1	.031039	.033080			.992006	.993006	.993046	.993026	.993206	.102
48-65588A1	.032093									
48-65588A4	.032093									
48-65736A1	.031045									
48-65736A4	.031045									
48-65748A1	.032092									
48-65992A1	.031038	.033078			.992005	.993005	.993045	.993025	.993205	.102
48-65992A4	.031038	.033078			.992005	.993005	.993045	.993025	.993205	.102
48-66432A1	.031036	.033074			.992003	.993003	.993043	.993023	.993203	.102
48-66432A4	.031037	.033076			.992004	.993004	.993044	.993024	.993204	.102
48-66450A4	.031036	.033074			.992003	.993003	.993043	.993023	.993203	.102
48-67280A1	.032094									
48-67874A4	.031039	.033080			.992006	.993006	.993046	.993026	.993206	.102
48-68556A4	.033052									
48-68557A4	.033053									
48-68558A4	.033054									
48-69260A1	.032115									
48-69262A1	.032117									
48-72764A4	.033017	.033085				.993104	.993144			.See Note 3
48-72764A5	.033017	.033085				.993104	.993144			.See Note 3
48-73132A4	.031015	.033088								
48-73132A40	.031015	.033088								
48-73134A4	.031016	.033089			.992405		.993405			.114
48-73134A40	.031016	.033089			.992405		.993405			.114
48-73136A4	.031017	.033090	.395129		.992406		.993406			.114
48-73136A40	.031017	.033090	.395129		.992406		.993406			.114
48-73138A4	.031018	.033091			.992407		.993407			.114
48-73138A40	.031018	.033091			.992407		.993407			.114
48-73140A4	.031019	.033092	.395130		.992408		.993408			.114
48-73140A40	.031019	.033092	.395130		.992408		.993408			.114
48-73142A40					.992409					.114
48-73144A4	.031020									
48-73144A40	.031020									
48-73500A4	.031021									
48-73502A4	.031022									
48-73504A4	.031023	.033072			.992002	.993002	.993042	.993022		.102
48-73506A4	.031024	.033074			.992003	.993003	.993043	.993023	.993203	.102
48-73508A4	.031025	.033076			.992004	.993004	.993044	.993024	.993204	.102
48-73510A4	.031026	.033078			.992005	.993005	.993045	.993025	.993205	.102
48-73512A4	.031027	.033080			.992006	.993006	.993046	.993026	.993206	.102
48-73980A4	.033004	.033076				.993004	.993044	.993024	.993204	.102
48-73980A5	.033004	.033076				.993004	.993044	.993024	.993204	.102
48-73982A4	.033005	.033078				.993005	.993045	.993025	.993205	.102
48-73982A5	.033005	.033078				.993005	.993045	.993025	.993205	.102

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
MERCURY, MARINER, MERCUISER (continued)										
48-74266A4 QSS™	.033004	.033076	.....	.....	.....	.993004	.993044	.993024	.993204	.....102
48-74268A4 QSS™	.033005	.033078	.....	.....	.....	.993005	.993045	.993025	.993205	.....102
48-74598A4 Cleaver™	.033052	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-74599A4 Cleaver™	.033053	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-74600A4 Cleaver™	.033054	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-74601A4 Cleaver™	.033055	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-74603A4 Mirage®	.033057	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-74604A4 Mirage®	.033058	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-74872A4 ..... .031036	.031036	.033074	.....	.....	.992003	.993003	.993043	.993023	.993203	.....102
48-74874A4 ..... .031037	.031037	.033076	.....	.....	.992004	.993004	.993044	.993024	.993204	.....102
48-74876A4 ..... .031038	.031038	.033078	.....	.....	.992005	.993005	.993045	.993025	.993205	.....102
48-74886A4 ..... .031037	.031037	.033076	.....	.....	.992004	.993004	.993044	.993024	.993204	.....102
48-74888A4 ..... .031038	.031038	.033078	.....	.....	.992005	.993005	.993045	.993025	.993205	.....102
48-75058A4 QSS™	.033006	.033080	.....	.....	.....	.993006	.993046	.993026	.993206	.....102
48-75160A4 ..... .031027	.031027	.033080	.....	.....	.992006	.993006	.993046	.993026	.993206	.....102
48-75724A4 QSS™	.033006	.033080	.....	.....	.....	.993006	.993046	.993026	.993206	.....102
48-75724A5 QSS™	.033006	.033080	.....	.....	.....	.993006	.993046	.993026	.993206	.....102
48-75760A4 ..... .031023	.031023	.033072	.....	.....	.992002	.993002	.993042	.993022	.....	.....102
48-76230A4 QSS™	.033028	.033091	.....	.....	.....	.....	.993407	.....	.....	.....
48-76230A5 Vengeance	.033028	.033091	.....	.....	.....	.....	.993407	.....	.....	.....
48-76232A4 QSS™	.....	.033092	.395130	.....	.....	.....	.993408	.....	.....	.....
48-76232A5 Vengeance	.....	.033092	.395130	.....	.....	.....	.993408	.....	.....	.....
48-77338A33 Black Max™	.031054	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77338A4 ..... .031054	.031054	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77338A40 ..... .031054	.031054	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77338A45 Black Max™	.031054	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77340A4 ..... .031055	.031055	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77340A40 ..... .031055	.031055	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77340A45 Black Max™	.031055	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77342A4 ..... .031041	.031041	.033084	.335130	.....	.992103	.993103	.993143	.....	.....	.....See Note 3
48-77342A40 ..... .031041	.031041	.033084	.335130	.....	.992103	.993103	.993143	.....	.....	.....See Note 3
48-77342A45 Black Max™	.031041	.....	.335130	.....	.992103	.993103	.993143	.....	.....	.....See Note 3
48-77344A4 ..... .031042	.031042	.033085	.335131	.....	.992104	.993104	.993144	.....	.....	.....See Note 3
48-77344A40 ..... .031042	.031042	.033085	.335131	.....	.992104	.993104	.993144	.....	.....	.....See Note 3
48-77344A45 Black Max™	.031042	.033085	.335131	.....	.992104	.993104	.993144	.....	.....	.....See Note 3
48-77346A4 ..... .031043	.031043	.033086	.335132	.....	.992105	.993105	.993145	.....	.....	.....See Note 3
48-77346A40 ..... .031043	.031043	.033086	.335132	.....	.992105	.993105	.993145	.....	.....	.....See Note 3
48-77346A45 Black Max™	.031043	.033086	.335132	.....	.992105	.993105	.993145	.....	.....	.....See Note 3
48-77348A4 ..... .031044	.031044	.033087	.335133	.....	.992106	.993106	.993146	.....	.....	.....See Note 3
48-77348A40 ..... .031044	.031044	.033087	.335133	.....	.992106	.993106	.993146	.....	.....	.....See Note 3
48-77348A45 Black Max™	.031044	.....	.335133	.....	.992106	.993106	.993146	.....	.....	.....See Note 3
48-77350A4 ..... .031045	.031045	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77350A40 ..... .031045	.031045	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77350A45 Black Max™	.031045	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77896A1 ..... .032113	.032113	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77896A10 ..... .032113	.032113	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77897A1 ..... .032114	.032114	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77897A10 ..... .032114	.032114	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77898A1 ..... .032115	.032115	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77898A10 ..... .032115	.032115	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77899A1 ..... .032116	.032116	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77899A10 ..... .032116	.032116	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77900A1 ..... .032117	.032117	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77900A10 ..... .032117	.032117	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77901A1 ..... .032118	.032118	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-77901A10 ..... .032118	.032118	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-78112A4 ..... .031021	.031021	.....	.....	.....	.....	.....	.....	.....	.....	.....
48-78112A40 ..... .031021	.031021	.....	.....	.....	.....	.....	.....	.....	.....	.....

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
MERCURY, MARINER, MERCURISER (continued)										
48-78112A45 .....Black Max™	.031021									
48-78114A4 .....	.031022									
48-78114A40 .....	.031022									
48-78114A45 .....Black Max™	.031022									
48-78116A4 .....	.031023	.033072	.345131		.992002	.993002	.993042	.993022		.....102
48-78116A40 .....	.031023	.033072	.345131		.992002	.993002	.993042	.993022		.....102
48-78116A45 .....Black Max™	.031023	.033072	.345131		.992002	.993002	.993042	.993022		.....102
48-78118A4 .....	.031024	.033074	.345132		.992003	.993003	.993043	.993023	.993203	.....102
48-78118A40 .....	.031024	.033074	.345132		.992003	.993003	.993043	.993023	.993203	.....102
48-78118A45 .....Black Max™	.031024	.033074	.345132		.992003	.993003	.993043	.993023	.993203	.....102
48-78120A4 .....	.031025	.033076	.345133		.992004	.993004	.993044	.993024	.993204	.....102
48-78120A40 .....	.031025	.033076	.345133		.992004	.993004	.993044	.993024	.993204	.....102
48-78120A45 .....Black Max™	.031025	.033076	.345133		.992004	.993004	.993044	.993024	.993204	.....102
48-78122A4 .....	.031026	.033078	.345134		.992005	.993005	.993045	.993025	.993205	.....102
48-78122A40 .....	.031026	.033078	.345134		.992005	.993005	.993045	.993025	.993205	.....102
48-78122A45 .....Black Max™	.031026	.033078	.345134		.992005	.993005	.993045	.993025	.993205	.....102
48-78124A4 .....	.031027	.033080	.345135		.992006	.993006	.993046	.993026	.993206	.....102
48-78124A40 .....	.031027	.033080	.345135		.992006	.993006	.993046	.993026	.993206	.....102
48-78124A45 .....Black Max™	.031027	.033080	.345135		.992006	.993006	.993046	.993026	.993206	.....102
48-78126A4 .....	.031067	.033082	.345136		.992007	.993007				.....102
48-78126A40 .....	.031067	.033082	.345136		.992007	.993007				.....102
48-78126A45 .....Black Max™	.031067	.033082	.345136		.992007	.993007				.....102
48-79572A4 .....	.031036	.033074			.992003	.993003	.993043	.993023	.993203	.....102
48-79574A4 .....	.031037	.033076			.992004	.993004	.993044	.993024	.993204	.....102
48-79576A4 .....	.031038	.033078			.992005	.993005	.993045	.993025	.993205	.....102
48-79578A4 .....	.031039	.033080			.992006	.993006	.993046	.993026	.993206	.....102
48-79792A4 .....QSS™	.033001	.033089					.993405			.....
48-79792A5 .....Vengeance	.033001	.033089					.993405			.....
48-79794A4 .....QSS™	.033003	.033074				.993003	.993043	.993023	.993203	.....102
48-79794A5 .....QSS™	.033003	.033074				.993003	.993043	.993023	.993203	.....102
48-79830A4 .....QSS™	.033003	.033074				.993003	.993043	.993023	.993203	.....102
48-80955M .....	.012013									.....
48-81645M .....	.022002									.....
48-81647M .....	.022001									.....
48-81649M .....	.022002									.....
48-816702A40 .....Black Max™	.031056	.033089					.993405			.....
48-816704A40 .....Black Max™	.031057	.033090					.993406			.....
48-816706A40 .....Black Max™	.031058	.033091					.993407			.....
48-825864A47 .....Tempest Plus	.033034									.....
48-825940A47 .....Trophy Plus	.033040									.....
48-825944A47 .....Trophy Plus	.033042									.....
48-82767 .....	.012102									.....
48-82768 .....	.012011									.....
48-82769 .....	.012013									.....
48-82770 .....	.012010									.....
48-828148A12 .....Black Max™	.032060									.....
48-828150A12 .....Black Max™	.032058									.....
48-828152A12 .....Black Max™	.032056									.....
48-828154A12 .....Black Max™	.032054									.....
48-828156A12 .....Black Max™	.032052									.....
48-828158A12 .....Black Max™	.032050									.....
48-82826 .....	.022003									.....
48-832828A45 .....Black Max™	.031064	.033074	.345132		.992003	.993003	.993043	.993023	.993203	.....102
48-832830A45 .....Black Max™	.031065	.033076	.345133		.992004	.993004	.993044	.993024	.993204	.....102
48-832832A45 .....Black Max™	.031066	.033078	.345134		.992005	.993005	.993045	.993025	.993205	.....102
48-832834A45 .....Black Max™	.031068	.033080	.345135		.992006	.993006	.993046	.993026	.993206	.....102
48-85632A4 .....	.031053				.992404					.....114
48-85632A40 .....Black Max™	.031053				.992404					.....114

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
MERCURY, MARINER, MERCUISER (continued)										
48-86848A4	.031048									
48-86962A4	.032136									
48-878612A40	.031016	.033089					.993405			
48-88438A4	.033007	.033074				.993003	.993043	.993023	.993203	.102
48-88440A4	.033008	.033076				.993004	.993044	.993024	.993204	.102
48-88442A4	.033009	.033078				.993005	.993045	.993025	.993205	.102
48-88444A4	.033006	.033080				.993006	.993046	.993026	.993206	.102
48-89852A4	.031049									
48-89854A4	.031047									
48-93272A4	.033002	.033072				.993002	.993042	.993022		.102
48-93272A5	.033002	.033072				.993002	.993042	.993022		.102
48-96622M	.012010									
48-96623M	.012013									
48-96625M	.012011									
48-96628M	.012102									
QA1912X	.031064		.345132		.992003	.993003	.993043	.993023	.993203	.102
QA1916X	.031065		.345133		.992004	.993004	.993044	.993024	.993204	.102
QA1918X	.031066		.345134		.992005	.993005	.993045	.993025	.993205	.102
QA1920X	.031027		.345135		.992006	.993006	.993046	.993026	.993206	.102
QA1920X	.031068		.345165		.992006	.993006	.993046	.993026	.993206	.102
QA2000X	.031021									
QA2002X	.031063									
QA2004X	.031022									
QA2006X	.031050		.345131							
QA2008X	.031023		.345131		.992002	.993002	.993042	.993022		.102
QA2010X	.031051		.345132		.992003	.993003	.993043	.993023	.993203	.102
QA2012X	.031024		.345132		.992003	.993003	.993043	.993023	.993203	.102
QA2014X	.031052		.345133		.992004	.993004	.993044	.993024	.993204	.102
QA2016X	.031025		.345133		.992004	.993004	.993044	.993024	.993204	.102
QA2018X	.031026		.345134		.992005	.993005	.993045	.993025	.993205	.102
QA2022X	.031067		.345136							
QA2028X	.031043				.992105	.993105	.993145			.See Note 3
QA2030X	.031054									
QA2032X	.031055									
QA2034X	.031041				.992103	.993103	.993143			.See Note 3
QA2036X	.031042				.992104	.993104	.993144			.See Note 3
QA2040X	.031044				.992106	.993106	.993146			.See Note 3
QA2042X	.031045									
QA2060R	.032141									
QA2064R	.031015	.033088								
QA2064R	.032044									
QA2064R	.032045	.033093								
QA2066R	.032142									
QA2070R	.031053	.033089					.993405			
QA2072R	.031056	.033089					.993405			
QA2074R	.031016	.033089					.993405			
QA2076R	.031057	.033090	.395129				.993406			
QA2078R	.031017	.033090	.395129				.993406			
QA2078R	.032042	.033095	.395929				.993406			
QA2078R	.032043	.033094					.993405			
QA2080R	.031058	.033091					.993407			
QA2082R	.031018	.033091					.993407			
QA2082R	.032041	.033096					.993407			
QA2084R	.031019	.033092	.395130				.993408			
QA2084R	.032040	.033097	.395930				.993408			
QA2084R	.032039									
QA2088R	.031020									
QA2102R	.031049									

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
MERCURY, MARINER, MERCUISER (continued)										
QA2106R .....	.031048	.....	.305129	.....	.....	.....	.....	.....	.....	.....
QA2108R .....	.031047	.....	.305130	.....	.....	.....	.....	.....	.....	.....
QA2120R .....	.032060	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2122R .....	.032058	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2124R .....	.032056	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2126R .....	.032054	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2128R .....	.032052	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2130R .....	.032050	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2226R .....	.032044	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2230R .....Black Diamond	.032042	.033095	.395929	.....	.....	.....	.993406	.....	.....	.....
QA2232R .....	.032041	.033096	.....	.....	.....	.....	.993407	.....	.....	.....
QA2234R .....	.032040	.033097	.935930	.....	.....	.....	.993408	.....	.....	.....
QA3150R .....Black Diamond	.012011	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3152R .....Black Diamond	.012013	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3178R .....	.012008	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3808R .....	.022002	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3812R .....	.022003	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6000 .....QA3	.031021	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6004 .....QA3	.031022	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6010 .....QA3	.031051	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6012 .....QA3	.031024	.033074	.....	.....	.992003	.993003	.993043	.993023	.993203	.....102
QA6016 .....QA3	.031025	.033076	.....	.....	.992004	.993004	.993044	.993024	.993204	.....102
QA6018 .....QA3	.031026	.033078	.....	.....	.992005	.993005	.993045	.993025	.993205	.....102
QA6020 .....QA3	.031027	.033080	.....	.....	.992006	.993006	.993046	.993026	.993206	.....102
QA6030 .....QA3	.031054	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6032 .....QA3	.031055	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6034 .....QA3	.031041	.033084	.....	.....	.992103	.993103	.993143	.....	.....	.....See Note 3
QA6036 .....QA3	.031042	.033085	.....	.....	.992104	.993104	.993144	.....	.....	.....See Note 3
QA6038 .....QA3	.031043	.033086	.....	.....	.992105	.993105	.993145	.....	.....	.....See Note 3
QA6040 .....QA3	.031044	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6042 .....QA3	.031045	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6060T .....QA3	.032141	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6064T .....QA3	.031015	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6070T .....QA3	.031053	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6074T .....QA3	.031016	.033089	.....	.....	.....	.....	.993405	.....	.....	.....
QA6078T .....QA3	.031017	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6082T .....QA3	.031018	.033091	.....	.....	.....	.....	.993407	.....	.....	.....
QA6084T .....QA3	.031019	.033092	.....	.....	.....	.....	.993408	.....	.....	.....
QA6102T .....QA3	.031049	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6106T .....QA3	.031048	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA6128T .....QA3	.032021	.....	.....	.....	.....	.....	.....	.....	.....	.....
QS5006X .....	.033030	.....	.345133	.....	.992004	.993004	.993044	.993024	.993204	.....102
QS5007X .....	.033029	.....	.345163	.....	.....	.993014	.993054	.993034	.993214	.....102
QS5008X .....	.033032	.....	.345134	.....	.992005	.993005	.993045	.993025	.993205	.....102
QS5009X .....	.033031	.....	.345164	.....	.....	.993015	.993055	.993035	.993215	.....102
QS5010X .....	.033034	.....	.345135	.....	.992006	.993006	.993046	.993026	.993206	.....102
QS5011X .....	.033033	.....	.345165	.....	.....	.993016	.993056	.993036	.993216	.....102
QS5050X .....	.033002	.....	.345131	.....	.992002	.993002	.993042	.993022	.....	.....102
QS5052X .....	.033003	.....	.345132	.....	.992003	.993003	.993043	.993023	.993203	.....102
QS5052X .....	.033007	.....	.345132	.....	.992003	.993003	.993043	.993023	.993203	.....102
QS5053X .....	.....	.....	.345162	.....	.....	.993013	.993053	.993033	.993213	.....102
QS5054X .....	.033004	.....	.345133	.....	.992004	.993004	.993044	.993024	.993204	.....102
QS5054X .....	.033008	.....	.345133	.....	.992004	.993004	.993044	.993024	.993204	.....102
QS5056X .....	.033005	.....	.345134	.....	.992005	.993005	.993045	.993025	.993205	.....102
QS5056X .....	.033009	.....	.345134	.....	.992005	.993005	.993045	.993025	.993205	.....102
QS5058X .....	.033006	.....	.345135	.....	.992006	.993006	.993046	.993026	.993206	.....102
QS5070X .....	.....	.....	.345133	.....	.992004	.993004	.993044	.993024	.993204	.....102
QS5071X .....	.....	.....	.345163	.....	.....	.993014	.993054	.993034	.993214	.....102

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
MERCURY, MARINER, MERCUISER (continued)										
QS5072X .....	.....	.....	.345134	.....	.992005	.993005	.993045	.993025	.993205	....102
QS5073X .....	.....	.....	.345164	.....	.....	.993015	.993055	.993035	.993215	....102
QS5074X .....	.....	.....	.345135	.345141	.992006	.993006	.993046	.993026	.993206	....102
QS5075X .....	.....	.....	.345165	.....	.....	.993016	.993056	.993036	.993216	....102
QS5076X .....	.....	.....	.345136	.345137	.....	.993007	.....	.....	.....	....102
QS5076X .....	.....	.....	.....	.345139	.....	.....	.....	.....	.....	....102
QS5077X .....	.....	.....	.....	.....	.....	.993017	.....	.....	.....	....102
QS5116X .....	.033016	.....	.335130	.....	.992103	.993103	.993143	.....	.....	....102
QS5118X .....	.033017	.....	.335131	.....	.992104	.993104	.993144	.....	.....	....102
QS5120X .....	.033018	.....	.335132	.....	.992105	.993105	.993145	.....	.....	....102
QS5122X .....	.033019	.....	.335133	.335134	.992106	.993106	.993146	.....	.....	....102
QS5124X .....	.....	.....	.....	.335135	.....	.....	.....	.....	.....	....102
QS5164R .....	.033001	.....	.....	.....	.....	.....	.....	.....	.....	....102
QS5164R .....	.....	.033089	.....	.....	.....	.....	.....	.....	.....	....102
QS5164R .....	.....	.033094	.....	.....	.....	.....	.993405	.....	.....	....114
QS5164R .....	.113001	.033094	.....	.....	.....	.....	.993405	.....	.....	....114
QS5166R .....	.....	.033090	.395129	.....	.....	.....	.....	.....	.....	....102
QS5166R .....	.....	.033095	.395929	.....	.....	.....	.993406	.....	.....	....114
QS5168R .....	.033028	.033091	.395130	.....	.....	.....	.....	.....	.....	....102
QS5168R .....	.....	.033091	.395130	.....	.....	.....	.....	.....	.....	....102
QS5168R .....	.....	.033096	.....	.....	.....	.....	.993407	.....	.....	....114
QS5170R .....	.....	.033092	.395130	.....	.....	.....	.....	.....	.....	....102
QS5170R .....	.....	.033097	.395930	.....	.....	.....	.993408	.....	.....	....114
QS5180R .....	.....	.....	.305129	.....	.....	.....	.....	.....	.....	....102
TA1916X Black Diamond XT	.031065	.033076	.345133	.....	.992004	.993004	.993044	.993024	.993204	....102
TA1918X Black Diamond XT	.031066	.033078	.345134	.....	.992005	.993005	.993045	.993025	.993205	....102
TA1920X Black Diamond XT	.031039	.033080	.345135	.....	.992006	.993006	.993046	.993026	.993206	....102
TA2000 Black Diamond	.031021	.....	.....	.....	.....	.....	.....	.....	.....	....102
TA2004X Black Diamond	.031034	.....	.....	.....	.....	.....	.....	.....	.....	....102
TA2008 Black Diamond	.031023	.033072	.....	.....	.992002	.993002	.993042	.993022	.....	....102
TA2010 Black Diamond	.031051	.....	.....	.....	.992003	.993003	.993043	.993023	.993203	....102
TA2012 Black Diamond	.031024	.033074	.....	.....	.992003	.993003	.993043	.993023	.993203	....102
TA2014 Black Diamond	.031052	.....	.....	.....	.992004	.993004	.993044	.993024	.993204	....102
TA2016 Black Diamond	.031025	.033076	.....	.....	.992004	.993004	.993044	.993024	.993204	....102
TA2018 Black Diamond	.031026	.033078	.....	.....	.992005	.993005	.993045	.993025	.993205	....102
TA2020 Black Diamond	.031027	.033080	.....	.....	.992006	.993006	.993046	.993026	.993206	....102
TA2022X Black Diamond	.031067	.033082	.....	.....	.992007	.993007	.....	.....	.....	....102
TA2030X Black Diamond	.032089	.....	.....	.....	.....	.....	.....	.....	.....	....102
TA2032X Black Diamond	.032091	.....	.....	.....	.....	.....	.....	.....	.....	....102
TA2034 Black Diamond	.031041	.033084	.....	.....	.992103	.993103	.993143	.....	.....	..See Note 3 ..
TA2036 Black Diamond	.031042	.033085	.....	.....	.992104	.993104	.993144	.....	.....	..See Note 3 ..
TA2038 Black Diamond	.031043	.033086	.....	.....	.992105	.993105	.993145	.....	.....	..See Note 3 ..
TA2040 Black Diamond	.031044	.033087	.....	.....	.992106	.993106	.993146	.....	.....	..See Note 3 ..
TA2048 Black Diamond	.031041	.033084	.....	.....	.992103	.993103	.993143	.....	.....	..See Note 3 ..
TA2050 Black Diamond	.031042	.033085	.....	.....	.992104	.993104	.993144	.....	.....	..See Note 3 ..
TA2052 Black Diamond	.031043	.033086	.....	.....	.992105	.993105	.993145	.....	.....	..See Note 3 ..
TA2054 Black Diamond	.031044	.....	.....	.....	.992106	.993106	.993146	.....	.....	..See Note 3 ..
TA2060T Black Diamond	.032141	.....	.....	.....	.....	.....	.....	.....	.....	....102
TA2064T Black Diamond	.031015	.033088	.....	.....	.....	.....	.....	.....	.....	....102
TA2066T Black Diamond	.032142	.....	.....	.....	.....	.....	.....	.....	.....	....102
TA2070T Black Diamond	.031053	.....	.....	.....	.....	.....	.....	.....	.....	....102
TA2072T Black Diamond	.031056	.033089	.....	.....	.....	.....	.....	.....	.....	....102
TA2074T Black Diamond	.031016	.033089	.....	.....	.....	.....	.....	.....	.....	....102
TA2076T Black Diamond	.031057	.033090	.....	.....	.....	.....	.....	.....	.....	....102
TA2078T Black Diamond	.031017	.033090	.....	.....	.....	.....	.....	.....	.....	....102
TA2080T Black Diamond	.031058	.033091	.....	.....	.....	.....	.....	.....	.....	....102
TA2082T Black Diamond	.031018	.033091	.....	.....	.....	.....	.....	.....	.....	....102
TA2084T Black Diamond	.031019	.033092	.....	.....	.....	.....	.....	.....	.....	....102

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
MERCURY, MARINER, MERCURISER (continued)										
TA2088T .....Black Diamond	.031022	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA2102T .....Black Diamond	.032060	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA2106T .....Black Diamond	.031048	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA2122T .....Black Diamond	.032058	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA2126T .....Black Diamond	.032054	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA2128T .....Black Diamond	.032052	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA2202 .....Black Diamond	.031044	.....	.....	.....	.992106	.993106	.993146	.....	.....	..See Note 3 ..
TA2204 .....Black Diamond	.031043	.033086	.....	.....	.992105	.993105	.993145	.....	.....	..See Note 3 ..
TA2206 .....Black Diamond	.031042	.033085	.....	.....	.992104	.993104	.993144	.....	.....	..See Note 3 ..
TA2208 .....Black Diamond	.031041	.033084	.....	.....	.992103	.993103	.993143	.....	.....	..See Note 3 ..
TA3150T .....Black Diamond	.012011	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3152T .....Black Diamond	.012013	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3808T .....Black Diamond	.022002	.....	.....	.....	.....	.....	.....	.....	.....	.....
TS1006 .....Thunderbolt	.033030	.....	.....	.....	.....	.....	.....	.....	.....	.....
TS1007 .....Thunderbolt	.033029	.....	.....	.....	.....	.....	.....	.....	.....	.....
TS1008 .....Thunderbolt	.033032	.....	.....	.....	.....	.....	.....	.....	.....	.....
TS1009 .....Thunderbolt	.033031	.....	.....	.....	.....	.....	.....	.....	.....	.....
TS1010 .....Thunderbolt	.033034	.....	.....	.....	.....	.....	.....	.....	.....	.....
TS1011 .....Thunderbolt	.033033	.....	.....	.....	.....	.....	.....	.....	.....	.....
TS1052 .....Silverado	.033003	.033074	.....	.....	.....	.993003	.993043	.993023	.993203	.....102
TS1053 .....Silverado	.....	.033075	.....	.....	.....	.993013	.993053	.993033	.993213	.....102
TS1054 .....Silverado	.033004	.033076	.....	.....	.....	.993004	.993044	.993024	.993204	.....102
TS1055 .....Silverado	.....	.033077	.....	.....	.....	.993014	.993054	.993034	.993214	.....102
TS1056 .....Silverado	.033005	.033078	.....	.....	.....	.993005	.993045	.993025	.993205	.....102
TS1057 .....Silverado	.....	.033079	.....	.....	.....	.993015	.993055	.993035	.993215	.....102
TS1070 .....Lightspeed	.....	.033076	.....	.....	.....	.993004	.993044	.993024	.993204	.....102
TS1071 .....Lightspeed	.....	.033077	.....	.....	.....	.993014	.993054	.993034	.993214	.....102
TS1072 .....Lightspeed	.....	.033078	.....	.....	.....	.993005	.993045	.993025	.993205	.....102
TS1073 .....Lightspeed	.....	.033079	.....	.....	.....	.993015	.993055	.993035	.993215	.....102
TS1074 .....Lightspeed	.....	.033080	.....	.....	.....	.993006	.993046	.993026	.993206	.....102
TS1075 .....Lightspeed	.....	.033081	.....	.....	.....	.993016	.993056	.993036	.993216	.....102
TS1076 .....Lightspeed	.....	.033082	.....	.....	.....	.993007	.....	.....	.....	.....102
TS1077 .....Lightspeed	.....	.033083	.....	.....	.....	.993017	.....	.....	.....	.....102
TS1116 .....Silverado	.033016	.033084	.....	.....	.....	.993103	.993143	.....	.....	..See Note 3 ..
TS1118 .....Silverado	.033017	.033085	.....	.....	.....	.993104	.993144	.....	.....	..See Note 3 ..
TS1120 .....Lightspeed	.....	.033086	.....	.....	.....	.993105	.993145	.....	.....	..See Note 3 ..
TS1122 .....Lightspeed	.....	.033087	.....	.....	.....	.993106	.993146	.....	.....	..See Note 3 ..
TS1164T .....Silverado	.033001	.033089	.....	.....	.....	.....	.993405	.....	.....	.....114
TS1166T .....Silverado	.....	.033090	.....	.....	.....	.....	.993406	.....	.....	.....114
TS1168T .....Silverado	.033028	.033091	.....	.....	.....	.....	.993407	.....	.....	.....114
SUZUKI										
58100-90420-019 .....	.101035	.....	.335933	.....	.992106	.....	.....	.....	.....	.....110
58100-90J00-019 .....	.101033	.....	.335931	.....	.992104	.....	.....	.....	.....	.....110
58100-90J10-019 .....	.101034	.....	.335932	.....	.992105	.....	.....	.....	.....	.....110
58100-93703-019 .....	.062015	.....	.....	.....	.....	.....	.....	.....	.....	.....
58100-93723-019 .....	.062016	.....	.....	.....	.....	.....	.....	.....	.....	.....
58100-93743-019 .....	.062017	.....	.....	.....	.....	.....	.....	.....	.....	.....
58100-94313-019 .....	.032042	.033095	.....	.....	.992406	.....	.993406	.....	.....	.....115
58100-94410 .....	.....	.033096	.....	.....	.....	.....	.993407	.....	.....	.....115
58100-94411 .....	.....	.033096	.395930	.....	.....	.....	.993407	.....	.....	.....115
58100-94412 .....	.....	.033096	.....	.....	.....	.....	.993407	.....	.....	.....115
58100-94500-019 .....	.....	.....	.335530	.....	.....	.....	.....	.....	.....	.....
58100-94512-019 .....	.....	.....	.335531	.....	.....	.....	.....	.....	.....	.....
58100-94522-019 .....	.....	.....	.335532	.....	.....	.....	.....	.....	.....	.....
58100-94532-019 .....	.....	.....	.335533	.335534	.....	.....	.....	.....	.....	.....
58100-94554 .....	.063001	.063042	.335530	.....	.....	.993103	.993143	.....	.....	.....110
58100-94561 .....	.063003	.063044	.335532	.....	.....	.993105	.993145	.....	.....	.....110

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
SUZUKI (continued)										
58100-94571		.063045	.335532			.993106	.993146			.110
58100-94581	.063002	.063043	.335531			.993104	.993144			.110
58100-95212-019	.032045	.033093			.992403					.115
58100-95222-019	.032044				.992404					.115
58100-95353-019	.032041	.033096			.992407					.115
58100-95363-019	.032040	.033097	.395929		.992408					.115
58100-95373-019	.032039				.992409					.115
58100-95382-019			.395930							
58100-95393-019	.032043	.033094			.992405					.115
58100-95500-019	.061001	.063042	.335530		.992103	.993103	.993143			.110
58100-95511-019	.061002	.063043	.335531		.992104	.993104	.993144			.110
58100-95521-019	.061003	.063044	.335532		.992105	.993105	.993145			.110
58100-95530-019	.061004	.063045	.335533		.992106	.993106	.993146			.110
58100-95D00-019					.992506					
58100-96410-019					.992502					.121
58100-96420-019	.062012				.992503					.121
58100-96430-019	.062013				.992504					.121
58100-96440-019	.062014				.992505					.121
58100-96490-019			.305529							
58200-96400			.305529							
99105-00100-16P	.063001	.063042	.335530			.993103	.993143			.110
99105-00100-18P	.063002	.063043	.335531			.993104	.993144			.110
99105-00100-20P	.063003	.063044	.335532			.993105	.993145			.110
99105-00100-22P		.063045		.335534		.993106	.993146			.110
99105-00101-20P	.063003	.063044	.335532			.993105	.993145			.110
99105-00101-22P		.063045				.993106	.993146			.110
99105-00101-24P				.335535						
99105-00200-16P		.063030	.345531			.993002	.993042	.993022		.104
99105-00200-18P		.063032	.345532			.993003	.993043	.993023	.993203	.104
99105-00200-20P		.063034	.345533			.993004	.993044	.993024	.993204	.104
99105-00200-22P		.063036	.345534	.345541		.993005	.993045	.993025	.993205	.104
99105-00200-24P		.063038	.345535	.345537		.993006	.993046	.993026	.993206	.104
99105-00200-26P		.063040		.345538		.993007				.104
99105-00201-26P		.063040		.345538		.993007				.104
99105-00203-23P	Thunder™	.063038		.345537		.993006	.993046	.993026	.993206	.104
99105-00203-25P	Thunder™	.063040		.345538		.993007				.104
99105-0020L-16P		.063031				.993012	.993052	.993032		.104
99105-0020L-18P		.063033	.345562			.993013	.993053	.993033	.993213	.104
99105-0020L-20P		.063035	.345563			.993014	.993054	.993034	.993214	.104
99105-0020L-22P		.063037	.345564			.993015	.993055	.993035	.993215	.104
99105-0020L-24P		.063039	.345565			.993016	.993056	.993036	.993216	.104
99105-0020L-26P		.063041				.993017				.104
99105-00300-24P		.063038				.993006	.993046	.993026	.993206	.104
99105-00300-25P		.063040				.993007				.104
99105-00500-12P		.033094					.993405			.115
99105-00500-13P		.033095	.395929				.993406			.115
99105-00500-14P		.033096					.993407			.115
99105-00500-15P		.033097	.395930				.993408			.115
99105-00600-13P			.305529							
99105-00600-15P			.305530							
QA2064R	.032044									
QA2064R	.032045	.033093								
QA2078R	.032042	.033095	.395929				.993406			.115
QA2078R	.032043	.033094					.993405			.115
QA2082R	.032041	.033096					.993407			.115
QA2084R	.032040	.033097	.395930				.993408			.115
QA2084R	.032039									
QA2202H			.335533		.992106	.993106	.993146			.110

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
SUZUKI (continued)										
QA2204H .....	.....	.....	.335532	.....	.992105	.993105	.993145	.....	.....	.....110
QA2206H .....	.....	.....	.335531	.....	.992104	.993104	.993144	.....	.....	.....110
QA2208H .....	.....	.....	.335530	.....	.992103	.993103	.993143	.....	.....	.....110
QA2226R .....	.032044	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2230R ..... .Black Diamond	.032042	.033095	.395929	.....	.....	.....	.993406	.....	.....	.....115
QA2232R .....	.032041	.033096	.....	.....	.....	.....	.993407	.....	.....	.....115
QA2234R .....	.032040	.033097	.935930	.....	.....	.....	.993408	.....	.....	.....115
QA2248R .....	.062012	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2252R .....	.062013	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2254R .....	.062014	.....	.305529	.....	.....	.....	.....	.....	.....	.....
QA2274R .....	.062017	.....	.....	.....	.....	.....	.....	.....	.....	.....
QS5050X .....	.....	.....	.345531	.....	.992002	.993002	.993042	.993022	.....	.....104
QS5052X .....	.....	.....	.345532	.....	.992003	.993003	.993043	.993023	.993203	.....104
QS5053X .....	.....	.....	.345562	.....	.....	.993013	.993053	.993033	.993213	.....104
QS5070X .....	.....	.....	.345533	.....	.992004	.993004	.993044	.993024	.993204	.....104
QS5071X .....	.....	.....	.345563	.....	.....	.993014	.993054	.993034	.993214	.....104
QS5072X .....	.....	.....	.345534	.....	.992005	.993005	.993045	.993025	.993215	.....104
QS5073X .....	.....	.....	.345564	.....	.....	.993015	.993055	.993035	.993205	.....104
QS5074X .....	.....	.....	.345535	.345541	.992006	.993006	.993046	.993026	.993216	.....104
QS5075X .....	.....	.....	.345565	.....	.....	.993016	.993056	.993036	.993206	.....104
QS5076X .....	.....	.....	.345536	.345537	.....	.993007	.....	.....	.....	.....104
QS5077X .....	.....	.....	.....	.....	.....	.993017	.....	.....	.....	.....104
QS5164R .....	.....	.033094	.....	.....	.....	.....	.993405	.....	.....	.....115
QS5164R .....	.113001	.033094	.....	.....	.....	.....	.993405	.....	.....	.....115
QS5166R .....	.....	.033095	.395929	.....	.....	.....	.993406	.....	.....	.....115
QS5168R .....	.....	.033096	.....	.....	.....	.....	.993407	.....	.....	.....115
QS5170R .....	.....	.033097	.395930	.....	.....	.....	.993408	.....	.....	.....115
QS5216H .....	.....	.....	.335530	.....	.992103	.993103	.993143	.....	.....	.....110
QS5218H .....	.....	.....	.335531	.....	.992104	.993104	.993144	.....	.....	.....110
QS5220H .....	.....	.....	.335532	.....	.992105	.993105	.993145	.....	.....	.....110
QS5222H .....	.....	.....	.335533	.335534	.992106	.993106	.993146	.....	.....	.....110
QS5224H .....	.....	.....	.....	.335535	.....	.....	.....	.....	.....	.....
TA2204 ..... .Black Diamond	.061003	.063044	.335532	.....	.992105	.993105	.993145	.....	.....	.....110
TA2206 ..... .Black Diamond	.061002	.063043	.335531	.....	.992104	.993104	.993144	.....	.....	.....110
TA2208 ..... .Black Diamond	.061001	.063042	.335530	.....	.992103	.993103	.993146	.....	.....	.....110
TA2230T ..... .Black Diamond	.032042	.033095	.395929	.....	.....	.....	.993406	.....	.....	.....115
TA2248T ..... .Black Diamond	.062012	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA2252T ..... .Black Diamond	.062013	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA2254T ..... .Black Diamond	.062014	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA2274T ..... .Black Diamond	.062017	.....	.....	.....	.....	.....	.....	.....	.....	.....
TOHATSU & NISSAN										
34664-1015M .....	.....	.....	.....	.....	.992501	.....	.....	.....	.....	.....122
346-64102-5 .....	.142022	.....	.....	.....	.....	.....	.....	.....	.....	.....
34664-1025M .....	.....	.....	.....	.....	.992502	.....	.....	.....	.....	.....122
346-64104-5 .....	.142024	.....	.....	.....	.....	.....	.....	.....	.....	.....
34664-1055M .....	.....	.....	.....	.....	.992506	.....	.....	.....	.....	.....122
346-64106-5 .....	.142020	.....	.....	.....	.....	.....	.....	.....	.....	.....
348-64101-0 .....	.....	.143001	.....	.....	.....	.....	.....	.....	.....	.....
348-64102-0 .....	.142003	.143003	.....	.....	.....	.....	.993406	.....	.....	.....116
348-64103-0 .....	.142004	.143004	.....	.....	.....	.....	.993407	.....	.....	.....116
348-64104-0 .....	.....	.143002	.....	.....	.....	.....	.993405	.....	.....	.....116
348-64105-0-not available	.....	.143001	.....	.....	.....	.....	.....	.....	.....	.....
353-64103-0 .....	.142005	.013080	.....	.....	.....	.....	.....	.....	.....	.....
353-64104-0 .....	.....	.013080	.....	.....	.....	.....	.....	.....	.....	.....
353-64105-0 .....	.142006	.013081	.....	.....	.992301	.....	.....	.....	.....	.....112
35364-1050M .....	.....	.....	.....	.....	.992301	.....	.....	.....	.....	.....112
353-64106-0 .....	.....	.013082	.....	.....	.....	.....	.....	.....	.....	.....

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
TOHATSU & NISSAN (continued)										
353-64107-0	.142007	.013082	.....	.....	.992302	.....	.....	.....	.....	.....112
35364-1070M	.....	.....	.....	.....	.992302	.....	.....	.....	.....	.....112
353-64108-0	.142008	.013082	.....	.....	.....	.....	.....	.....	.....	.....
353-64109-0	.142009	.013083	.....	.....	.992303	.....	.....	.....	.....	.....112
35364-1090M	.....	.....	.....	.....	.992303	.....	.....	.....	.....	.....112
361-64102-0	.....	.....	.....	.....	.992406	.....	.....	.....	.....	.....116
361-64103-0	.....	.....	.....	.....	.992407	.....	.....	.....	.....	.....116
361-64109-0	.....	.143001	.....	.....	.....	.....	.....	.....	.....	.....
361-64113-0	.142001	.143001	.....	.....	.992404	.....	.....	.....	.....	.....116
361-64114-0	.142002	.143001	.....	.....	.992405	.....	.....	.....	.....	.....116
362-64102-0	.142017	.....	.....	.....	.....	.....	.....	.....	.....	.....
362-64105-0	.142015	.....	.....	.....	.....	.....	.....	.....	.....	.....
362-64108-0	.142019	.....	.....	.....	.....	.....	.....	.....	.....	.....
3B7-64532-0	.142010	.103056	.335930	.....	.992103	.993103	.993143	.....	.....	..See Note 4..
3B7-64536-0	.142011	.103056	.335931	.....	.992103	.993103	.993143	.....	.....	..See Note 4..
3B7-64541-0	.142012	.103057	.335932	.....	.992104	.993104	.993144	.....	.....	..See Note 4..
3B7-64545-0	.142013	.103058	.335933	.....	.992105	.993105	.993145	.....	.....	..See Note 4..
3B7-64549-0	.....	.103059	.335933	.....	.....	.....	.....	.....	.....	.....
3C7645140	.142012	.103057	.335932	.....	.992104	.993104	.993144	.....	.....	..See Note 4..
3C7645360	.142011	.103057	.335931	.....	.992104	.993104	.993144	.....	.....	..See Note 4..
3E3-64526-0	.....	.143002	.....	.....	.....	.....	.....	.....	.....	.....
3E3-64528-0	.....	.143003	.....	.....	.....	.....	.....	.....	.....	.....
3E3-64531-0	.....	.143004	.....	.....	.....	.....	.....	.....	.....	.....
3R064-5250M	.....	.....	.....	.....	.992504	.....	.....	.....	.....	.....122
QA2030X	.142010	.....	.335930	.....	.992103	.993103	.993143	.....	.....	..See Note 4..
QA2032X	.142011	.....	.335931	.....	.992103	.993103	.993143	.....	.....	..See Note 4..
QA2034X	.142012	.....	.335932	.....	.992104	.993104	.993144	.....	.....	..See Note 4..
QA2036X	.142013	.....	.335933	.....	.992105	.993105	.993145	.....	.....	..See Note 4..
QA3084R	.142007	.013082	.325030	.....	.....	.....	.....	.....	.....	.....
QA3088R	.142008	.013083	.325031	.....	.....	.....	.....	.....	.....	.....
QA3090R	.142009	.013084	.....	.....	.....	.....	.....	.....	.....	.....
QS5116X	.103056	.....	.335930	.....	.992103	.993103	.993143	.....	.....	.....109
QS5118X	.103057	.....	.335931	.....	.992104	.993104	.993144	.....	.....	.....109
QS5120X	.103058	.....	.335932	.....	.992105	.993105	.993145	.....	.....	.....109
QS5122X	.103059	.....	.335933	.335934	.992106	.993106	.993146	.....	.....	.....109
VOLVO										
3850299-3	.161001	.163012	.346031	.....	.992002	.993002	.993042	.993022	.....	.....105
3850300-9	.161002	.163014	.346032	.....	.992003	.993003	.993043	.993023	.993203	.....105
3850301-7	.161003	.163016	.346033	.....	.992004	.993004	.993044	.993024	.993204	.....105
3850302	.161004	.163018	.346034	.....	.992005	.993005	.993045	.993025	.993205	.....105
3850302-5	.161004	.163018	.346034	.....	.992005	.993005	.993045	.993025	.993205	.....105
3850303	.....Aluminum	.....	.346035	.....	.....	.....	.....	.....	.....	.....
3850305	.....SST®	.163002	.163012	.346031	.....	.993002	.993042	.993022	.....	.....105
3850305-8	.163002	.163012	.346031	.....	.....	.993002	.993042	.993022	.....	.....105
3850306	.....SST®	.....	.346032	.....	.....	.....	.....	.....	.....	.....
3850307	.....SST®	.163004	.163014	.346032	.....	.993003	.993043	.993023	.993203	.....105
3850307-4	.163004	.163014	.346032	.....	.....	.993003	.993043	.993023	.993203	.....105
3850308	.....SST®	.163006	.163016	.346033	.....	.993004	.993044	.993024	.993204	.....105
3850308-2	.163006	.163016	.346033	.....	.....	.993004	.993044	.993024	.993204	.....105
3850309	.....SST®	.163008	.163018	.346034	.....	.993005	.993045	.993025	.993205	.....105
3850309-0	.163008	.163018	.346034	.....	.....	.993005	.993045	.993025	.993205	.....105
3850310	.....SST®	.163010	.163020	.346035	.....	.993006	.993046	.993026	.993206	.....105
3850310-8	.163010	.163020	.346035	.....	.....	.993006	.993046	.993026	.993206	.....105
3850311	.....VIPER™	.....	.163014	.346032	.....	.993003	.993043	.993023	.993203	.....105
3850312	.....VIPER™	.....	.163016	.346033	.....	.993004	.993044	.993024	.993204	.....105
3850313	.....VIPER™	.....	.163018	.346034	.....	.993005	.993045	.993025	.993205	.....105
3850314	.....VIPER™	.....	.163020	.346035	.....	.993006	.993046	.993026	.993206	.....105

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
VOLVO (continued)										
3850314-0 .....	.....	.163018	.346035	.....	.....	.993005	.993045	.993025	.993205	....105
3850315 .....(LH)	.....	.163013	.....	.....	.....	.993012	.993052	.993032	.....	....105
3850315-7 .....	.....	.163013	.....	.....	.....	.993012	.993052	.993032	.....	....105
3850316 .....SST® (LH)	.163003	.163015	.346062	.....	.....	.993013	.993053	.993033	.993213	....105
3850316-5 .....	.163003	.163015	.346062	.....	.....	.993013	.993053	.993033	.993213	....105
3850317 .....SST® (LH)	.163005	.163017	.346063	.....	.....	.993014	.993054	.993034	.993214	....105
3850317-3 .....	.163005	.163017	.346063	.....	.....	.993014	.993054	.993034	.993214	....105
3850318 .....SST® (LH)	.163007	.163019	.346064	.....	.....	.993015	.993055	.993035	.993215	....105
3850318-1 .....	.163007	.163019	.346064	.....	.....	.993015	.993055	.993035	.993215	....105
3850319 .....SST® (LH)	.163009	.163021	.346065	.....	.....	.993016	.993056	.993036	.993216	....105
3850319-9 .....	.163009	.163021	.346065	.....	.....	.993016	.993056	.993036	.993216	....105
3850320 .....VIPER™(LH)	.....	.163015	.346062	.....	.....	.993013	.993053	.993033	.993213	....105
3850321 .....VIPER™(LH)	.....	.163017	.346063	.....	.....	.993014	.993054	.993034	.993214	....105
3850322 .....VIPER™(LH)	.....	.163019	.346064	.....	.....	.993015	.993055	.993035	.993215	....105
3850323 .....VIPER™(LH)	.....	.163021	.346065	.....	.....	.993016	.993056	.993036	.993216	....105
3850323-1 .....	.....	.163019	.346065	.....	.....	.993015	.993055	.993035	.993215	....105
3855142 .....Raker®	.....	.163016	.346034	.....	.....	.993004	.993044	.993024	.993204	....105
3855144 .....Raker®	.....	.163018	.346035	.....	.....	.993005	.993045	.993025	.993205	....105
3855146 .....Raker®	.....	.163020	.346036	.....	.....	.993006	.993046	.993026	.993206	....105
3855148 .....Raker®	.....	.163022	.....	.....	.....	.993007	.....	.....	.....	....105
3855152 .....Raker®(LH)	.....	.163017	.346064	.....	.....	.993014	.993054	.993034	.993214	....105
3855154 .....Raker®(LH)	.....	.163019	.346065	.....	.....	.993015	.993055	.993035	.993215	....105
3855156 .....Raker®(LH)	.....	.163021	.....	.....	.....	.993016	.993056	.993036	.993216	....105
3855158 .....Raker®(LH)	.....	.163023	.....	.....	.....	.993017	.....	.....	.....	....105
3858026 .....VIPER™(RH)	.....	.103046	.....	.....	.....	.993003	.993043	.993023	.993203	....103
3858027 .....VIPER™(RH)	.....	.103048	.....	.....	.....	.993004	.993044	.993024	.993204	....103
3858028 .....VIPER™(RH)	.....	.103050	.....	.....	.....	.993005	.993045	.993025	.993205	....103
3858029 .....VIPER™(LH)	.....	.103047	.....	.....	.....	.993013	.993053	.993033	.993213	....103
3858030 .....VIPER™(LH)	.....	.103049	.....	.....	.....	.993014	.993054	.993034	.993214	....103
3858031 .....VIPER™(LH)	.....	.103051	.....	.....	.....	.993015	.993055	.993035	.993215	....103
813226 .....	.082045	.....	.....	.....	.....	.....	.....	.....	.....	.....
813228 .....	.082057	.....	.....	.....	.....	.....	.....	.....	.....	.....
813316-7	082087-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
814611-0	082059-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
814611-1	082059-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
814612-8	082029-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
814615-1	082060-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
814616-9	082030-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
814626-8	082025-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
814627-6	082027-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
814628-4	082031-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
814629-2 .....	.082033	.....	.....	.....	.....	.....	.....	.....	.....	.....
814631-8	082026-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
814632-6	082028-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
814633-4	082032-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
814634-2 .....	.082034	.....	.....	.....	.....	.....	.....	.....	.....	.....
850864-0	082013-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
850865-7	082014-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
850866-5	082015-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
850867-3	082016-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
851035-6	082089-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
851037-2	082091-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
851038-0	082090-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
851039-8	082093-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
851040-6	082092-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
851124-8	082011-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
851125-5	082012-1	.....	.....	.....	.....	.....	.....	.....	.....	.....
851138-8	082009-1	.....	.....	.....	.....	.....	.....	.....	.....	.....

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
VOLVO (continued)										
851139-6	082010-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
852085-0 .....	.083003 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
852086-8 .....	.083001 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
852087-6 .....	.083005 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
852137-9 .....	.083006 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
852138-7 .....	.083004 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
852155-1 .....	.083002 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854146-8	082032-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854147-6	082031-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854148-4	082030-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854149-2	082029-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854285-4	082001-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854286-2	082002-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854286-4	082002-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854288-8	082003-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854289-6	082004-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854977-6	082001-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854978-4	082003-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854979-2	082009-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854982-6	082011-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854983-4	082013-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854984-2	082015-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854986-7	082089-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854987-5	082091-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854988-3	082093-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854993-3	082004-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854997-4	082012-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854998-2	082014-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
854999-0	082016-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
872001-3	082090-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
872002-1	082092-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3008X .....	.161001 .....	.....	.335530 .....	.....	.992002 .....	.993002 .....	.993042 .....	.993022 .....	.....	.....105
QA3012X .....	.161002 .....	.....	.335531 .....	.....	.992003 .....	.993003 .....	.993043 .....	.993023	9693203 .....	.....105
QA3016X .....	.161003 .....	.....	.335532 .....	.....	.992004 .....	.993004 .....	.993044 .....	.993024 .....	.993204 .....	.....105
QA3018X .....	.161004 .....	.....	.335533 .....	.....	.992005 .....	.993005 .....	.993045 .....	.993025 .....	.993205 .....	.....105
QA3503R	082027-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3504R	082032-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3505R	082031-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3506R .....	.082034 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3507R .....	.082033 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3514R	082030-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3515R	082029-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3534R	082004-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3536R	082010-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3537R	082009-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3542R	082012-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3543R	082011-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3544R	082014-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3545R	082013-1 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
QS5050X .....	.163002 .....	.....	.346031 .....	.....	.992002 .....	.993002 .....	.993042 .....	.993022 .....	.....	.....105
QS5052X .....	.163004 .....	.....	.346032 .....	.....	.992003 .....	.993003 .....	.993043 .....	.993023 .....	.993203 .....	.....105
QS5053X .....	.163003 .....	.....	.346062 .....	.....	.....	.993013 .....	.993053 .....	.993033 .....	.993213 .....	.....105
QS5054X .....	.163006 .....	.....	.346033 .....	.....	.992004 .....	.993004 .....	.993044 .....	.993024 .....	.993204 .....	.....105
QS5055X .....	.163005 .....	.....	.346063 .....	.....	.....	.993014 .....	.993054 .....	.993034 .....	.993214 .....	.....105
QS5056X .....	.163008 .....	.....	.346034 .....	.....	.992005 .....	.993005 .....	.993045 .....	.993025 .....	.993205 .....	.....105
QS5057X .....	.163007 .....	.....	.346064 .....	.....	.....	.993015 .....	.993055 .....	.993035 .....	.993215 .....	.....105
QS5058X .....	.163010 .....	.....	.346035 .....	.....	.992006 .....	.993006 .....	.993046 .....	.993026 .....	.993206 .....	.....105
QS5059X .....	.163009 .....	.....	.....	.....	.....	.993016 .....	.993056 .....	.993036 .....	.993216 .....	.....105

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
VOLVO (continued)										
QS5070X .....	.....	.....	.346033	.....	.992004	.993004	.993044	.993024	.....	.....105
QS5071X .....	.....	.....	.346063	.....	.....	.993014	.933054	.993034	.....	.....105
QS5072X .....	.....	.....	.346034	.....	.992005	.993005	.993045	.993025	.....	.....105
QS5073X .....	.....	.....	.346064	.....	.....	.993015	.993055	.993035	.....	.....105
QS5074X .....	.....	.....	.346035	.....	.992006	.993006	.993046	.993026	.....	.....105
QS5075X .....	.....	.....	.346065	.....	.....	.993016	.993056	.993036	.....	.....105
QS5076X .....	.....	.....	.346032	.....	.....	.993007	.....	.....	.....	.....105
QS5076X .....	.....	.....	.346036	.....	.....	.....	.....	.....	.....	.....105
QS5077X .....	.....	.....	.....	.....	.....	.993017	.....	.....	.....	.....105
TS5050X .....Silverado	.163002	.163012	.345031	.....	.....	.993002	.993042	.993022	.....	.....105
TS5052X .....Silverado	.163004	.163014	.345032	.....	.....	.993003	.993043	.993023	.....	.....105
TS5054X .....Silverado	.163006	.163016	.345033	.....	.....	.993004	.993044	.993024	.....	.....105
TS5056X .....Silverado	.163008	.163018	.345034	.....	.....	.993005	.993045	.993025	.....	.....105
TS5058X .....Silverado	.163010	.163020	.345035	.....	.....	.993006	.993046	.993026	.....	.....105
YAMAHA										
61A-45972-00-98 .....	.....	.103050	.....	.....	.....	.993005	.993045	.993025	.993205	.....103
61A-45974-00-98 .....	.....	.103048	.....	.....	.....	.993004	.993044	.993024	.993204	.....103
61A-45978-00-98 .....	.....	.103046	.....	.....	.....	.993003	.993043	.993023	.993203	.....103
61B-45972-00-98 (LH) .....	.....	.103051	.....	.....	.....	.993015	.993055	.993035	.993215	.....103
61B-45974-00-98 (LH) .....	.....	.103049	.....	.....	.....	.993014	.993054	.993034	.993214	.....103
61B-45978-00-98 (LH) .....	.....	.103047	.....	.....	.....	.993013	.993053	.993033	.993213	.....103
62A-45970-10-00 .....	.....	.103058	.....	.335934	.....	.993105	.993145	.....	.....	..See Note 1 ..
62A-45970-10-00 PRO HP .....	.....	.103059	.....	.....	.....	.993106	.993146	.....	.....	..See Note 1 ..
62A-45972-10-00 .....	.....	.103059	.....	.335935	.....	.993106	.993146	.....	.....	..See Note 1 ..
62A-45974-10-00 PRO HP .....	.....	.103058	.....	.....	.....	.993105	.993145	.....	.....	..See Note 1 ..
650-45943-01-36 .....	.012102	.....	.....	.....	.....	.....	.....	.....	.....	.....
651-45947-00-36 .....	.012011	.....	.....	.....	.....	.....	.....	.....	.....	.....
653-45941-01-36 .....	.012013	.....	.....	.....	.....	.....	.....	.....	.....	.....
663-45943-01-36 .....	.032040	.033097	.....	.....	.....	.....	.993408	.....	.....	.....117
663-45943-02-36 .....	.032040	.033097	.....	.....	.....	.....	.993408	.....	.....	.....117
663-45943-02-EL .....	.032040	.033097	.....	.....	.....	.....	.993408	.....	.....	.....117
663-45945-01-36 .....	.032042	.033095	.....	.....	.....	.....	.993406	.....	.....	.....117
663-45945-02-36 .....	.032042	.033095	.....	.....	.....	.....	.993406	.....	.....	.....117
663-45945-02-EL .....	.032042	.033095	.....	.....	.....	.....	.993406	.....	.....	.....117
663-45947-01-36 .....	.032044	.....	.....	.....	.992404	.....	.....	.....	.....	.....117
663-45947-02-36 .....	.032044	.....	.....	.....	.992404	.....	.....	.....	.....	.....117
663-45947-02-EL .....	.032044	.....	.....	.....	.992404	.....	.....	.....	.....	.....117
663-45949-01-36 .....	.032039	.....	.....	.....	.992409	.....	.....	.....	.....	.....117
663-45949-01-EL .....	.032039	.....	.....	.....	.992409	.....	.....	.....	.....	.....117
663-45952-02-EL .....	.032043	.033094	.....	.....	.....	.....	.993405	.....	.....	.....117
663-45958-00-36 .....	.032041	.033096	.....	.....	.....	.....	.993407	.....	.....	.....117
663-45958-00-EL .....	.032041	.033096	.....	.....	.....	.....	.993407	.....	.....	.....117
663-45958-01-36 .....	.032041	.033096	.....	.....	.....	.....	.993407	.....	.....	.....117
663-45958-01-EL .....	.032041	.033096	.....	.....	.....	.....	.993407	.....	.....	.....117
663-45970-60-98 .....	.....	.033095	.395929	.....	.....	.....	.993406	.....	.....	.....117
663-45972-60-98 .....	.113001	.033094	.....	.....	.....	.....	.993405	.....	.....	.....117
663-45974-60-98 .....	.....	.033096	.....	.....	.....	.....	.993407	.....	.....	.....117
663-45976-00-98 .....	.....	.033097	.395930	.....	.....	.....	.993408	.....	.....	.....117
663-45978-00-98 .....	.....	.033097	.....	.....	.....	.....	.993408	.....	.....	.....117
664-45941-01-36 .....	.022001	.....	.....	.....	.992501	.....	.....	.....	.....	.....123
664-45941-01-EL .....	.022001	.....	.....	.....	.992501	.....	.....	.....	.....	.....123
664-45945-00-36 .....	.022002	.....	.....	.....	.992502	.....	.....	.....	.....	.....123
664-45945-00-EL .....	.022002	.....	.....	.....	.992502	.....	.....	.....	.....	.....123
664-45947-01-EL ... ALUMINUM	.022002	.....	.....	.....	.992503	.....	.....	.....	.....	.....123
664-45949-02-EL .....	.....	.....	.305929	.....	.992505	.....	.....	.....	.....	.....123
664-45952-00-EL .....	.....	.....	.305930	.....	.992506	.....	.....	.....	.....	.....123
664-45954-00-EL .....	.022003	.....	.....	.....	.992504	.....	.....	.....	.....	.....123

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
YAMAHA (continued)										
664-45970-00-98 .....	.....	.....	.305929	.....	.....	.....	.....	.....	.....	.....
66K-45972-B0-00 .....	.....	.103054	.....	.345938	.....	.993007	.....	.....	.....	.....103
683-45943-00-36 .....	.102005	.....	.....	.....	.....	.....	.....	.....	.....	.....
683-45943-00-EL .....	.102005	.....	.....	.....	.....	.....	.....	.....	.....	.....
683-45945-00-36 .....	.102004	.....	.....	.....	.....	.....	.....	.....	.....	.....
683-45945-00-EL .....	.102004	.....	.....	.....	.....	.....	.....	.....	.....	.....
683-45947-00-36 .....	.102003	.....	.....	.....	.....	.....	.....	.....	.....	.....
683-45947-00-EL .....	.102003	.....	.....	.....	.....	.....	.....	.....	.....	.....
683-W4591-02-EL ... ALUMINUM	.102003	.....	.....	.....	.....	.....	.....	.....	.....	.....
688-45930-01-98 .....	.103026	.103057	.335931	.....	.....	.993104	.993144	.....	.....	.....See Note 1 ...
688-45930-02-98 .....	.103026	.103057	.335931	.....	.....	.993104	.993144	.....	.....	.....See Note 1 ...
688-45930-60-98 .....	.103026	.103057	.335931	.....	.....	.993104	.993144	.....	.....	.....See Note 1 ...
688-45932-60-98 .....	.....	.....	.335930	.....	.....	.....	.....	.....	.....	.....
688-45970-01-98 .....	.103027	.103058	.335932	.....	.....	.993105	.993145	.....	.....	.....See Note 1 ...
688-45970-02-98 .....	.103027	.103058	.335932	.....	.....	.993105	.993145	.....	.....	.....See Note 1 ...
688-45970-03-98 .....	.103027	.103058	.335932	.....	.....	.993105	.993145	.....	.....	.....See Note 1 ...
688-45972-01-98 .....	.....	.103059	.335933	.....	.....	.993106	.993146	.....	.....	.....See Note 1 ...
688-45972-02-98 .....	.....	.103059	.335933	.....	.....	.993106	.993146	.....	.....	.....See Note 1 ...
688-45978-60-98 .....	.103025	.103056	.335931	.....	.....	.993103	.993143	.....	.....	.....See Note 1 ...
6E5-45941-00-36 .....	.101034	.103058	.335932	.....	.992105	.993105	.993145	.....	.....	.....See Note 1 ...
6E5-45941-00-EL .....	.101034	.103058	.335932	.....	.992105	.993105	.993145	.....	.....	.....See Note 1 ...
6E5-45943-00-36 .....	.101035	.103059	.335933	.....	.992106	.993106	.993146	.....	.....	.....See Note 1 ...
6E5-45943-00-EL .....	.101035	.103059	.335933	.....	.992106	.993106	.993146	.....	.....	.....See Note 1 ...
6E5-45945-00-36 .....	.101033	.103057	.335931	.....	.992104	.993104	.993144	.....	.....	.....See Note 1 ...
6E5-45945-00-EL .....	.101033	.103057	.335931	.....	.992104	.993104	.993144	.....	.....	.....See Note 1 ...
6E5-45945-01-EL .....	.101033	.103057	.335931	.....	.992104	.993104	.993144	.....	.....	.....See Note 1 ...
6E5-45947-00-36 .....	.101032	.103056	.335930	.....	.992103	.993103	.993143	.....	.....	.....See Note 1 ...
6E5-45947-00-EL .....	.101032	.103056	.335930	.....	.992103	.993103	.993143	.....	.....	.....See Note 1 ...
6E5-45949-00-36 .....	.101031	.....	.....	.....	.....	.....	.....	.....	.....	.....
6E5-45949-00-EL .....	.101031	.....	.....	.....	.....	.....	.....	.....	.....	.....
6E5-45954-00-EL .....	.101036	.....	.....	.....	.....	.....	.....	.....	.....	.....
6E5-45970-10-00 .....	.....	.103048	.345933	.....	.....	.993004	.993044	.993024	.993204	.....103
6E5-45970-10-98 .....	.....	.103048	.345933	.....	.....	.993004	.993044	.993024	.993204	.....103
6E5-45972-10-00 .....	.....	.103052	.345935	.....	.....	.993006	.993046	.993026	.993206	.....103
6E5-45972-10-98 .....	.....	.103052	.345935	.....	.....	.993006	.993046	.993026	.993206	.....103
6E5-45976-10-00 .....	.....	.103050	.345934	.....	.....	.993005	.993045	.993025	.993205	.....103
6E5-45976-10-98 .....	.....	.103050	.345934	.....	.....	.993005	.993045	.993025	.993205	.....103
6E5-45978-10-00 .....	.....	.103054	.345936	.....	.....	.993007	.....	.....	.....	.....103
6E5-45978-10-98 .....	.....	.103054	.345936	.....	.....	.993007	.....	.....	.....	.....103
6G1-45943-00-36 .....	.102002	.....	.....	.....	.....	.....	.....	.....	.....	.....
6G1-45943-00-EL .....	.102002	.....	.....	.....	.....	.....	.....	.....	.....	.....
6G1-45947-00-EL .....	.102001	.....	.....	.....	.....	.....	.....	.....	.....	.....
6G5-45930-00-98 .....	.....	.103054	.345936	.....	.....	.993007	.....	.....	.....	.....103
6G5-45941-00-36 .....	.101025	.103044	.345931	.....	.992002	.993002	.993042	.993022	.....	.....103
6G5-45941-00-98 .....	.101025	.103044	.345931	.....	.992002	.993002	.993042	.993022	.....	.....103
6G5-45941-00-EL .....	.101025	.103044	.345931	.....	.992002	.993002	.993042	.993022	.....	.....103
6G5-45943-00-36 .....	.101029	.103050	.345934	.....	.992005	.993005	.993045	.993025	.993205	.....103
6G5-45943-00-EL .....	.101029	.103050	.345934	.....	.992005	.993005	.993045	.993025	.993205	.....103
6G5-45943-01-98 .....	.101029	.103050	.345934	.....	.992005	.993005	.993045	.993025	.993205	.....103
6G5-45945-00-36 .....	.101028	.103048	.345933	.....	.992004	.993004	.993044	.993024	.993204	.....103
6G5-45945-00-EL .....	.101028	.103048	.....	.....	.992004	.993004	.993044	.993024	.993204	.....103
6G5-45945-01-98 .....	.101028	.103048	.345933	.....	.992004	.993004	.993044	.993024	.993204	.....103
6G5-45945-01-EL .....	.101028	.103048	.....	.....	.992004	.993004	.993044	.993024	.993204	.....103
6G5-45947-01-98 .....	.101027	.103046	.345932	.....	.992003	.993003	.993043	.993023	.993203	.....103
6G5-45947-01-EL .....	.101027	.103046	.....	.....	.992003	.993003	.993043	.993023	.993203	.....103
6G5-45949-00-36 .....	.101030	.103052	.....	.....	.992006	.993006	.993046	.993026	.993206	.....103
6G5-45949-00-98 .....	.101030	.103052	.345935	.....	.992006	.993006	.993046	.993026	.993206	.....103
6G5-45949-00-EL .....	.101030	.103052	.....	.....	.992006	.993006	.993046	.993026	.993206	.....103

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
YAMAHA (continued)										
6G5-45952-00-98	.101026	.103044			.992003	.993002	.993042	.993022		.....103
6G5-45952-00-EL	.101026	.103044			.992003	.993002	.993042	.993022		.....103
6G5-45970-00-98		.103044				.993002	.993042	.993022		.....103
6G5-45970-01-98		.103044				.993002	.993042	.993022		.....103
6G5-45970-02-98		.103044	.345931			.993002	.993042	.993022		.....103
6G5-45972-00-98	.103022	.103050				.993005	.993045	.993025	.993205	.....103
6G5-45972-01-98	.103022	.103050				.993005	.993045	.993025	.993205	.....103
6G5-45972-02-98	.103022	.103050	.345934			.993005	.993045	.993025	.993205	.....103
6G5-45972-03-98	.103022	.103050				.993005	.993045	.993025	.993205	.....103
6G5-45974-00-98	.103020	.103048				.993004	.993044	.993024	.993204	.....103
6G5-45974-01-98	.103020	.103048				.993004	.993044	.993024	.993204	.....103
6G5-45974-02-98	.103020	.103048				.993004	.993044	.993024	.993204	.....103
6G5-45974-03-98	.103020	.103048	.345933			.993004	.993044	.993024	.993204	.....103
6G5-45976-00-98		.103052				.993006	.993046	.993026	.993206	.....103
6G5-45976-01-98		.103052	.345935			.993006	.993046	.993026	.993206	.....103
6G5-45978-00-98	.103018	.103046				.993003	.993043	.993023	.993203	.....103
6G5-45978-01-98	.103018	.103046				.993003	.993043	.993023	.993203	.....103
6G5-45978-02-98	.103018	.103046				.993003	.993043	.993023	.993203	.....103
6G5-45978-03-98	.103018	.103046	.345932			.993003	.993043	.993023	.993203	.....103
6H5-45943-00-EL	.032040	.033097	.395930		.992408					.....117
6H5-45945-00-EL	.032042	.033095	.395929		.992406					.....117
6H5-45952-00-EL	.032043	.033094			.992405					.....117
6H5-45958-00-EL		.033096			.992407					.....117
6J9-45970-B0-00		.103054				.993007				.....103
6J9-45972-B0-00		.103052		.345937		.993006	.993046	.993026	.993206	.....103
6J9-45976-10-00		.103050		.345941		.993005	.993045	.993025	.993205	.....103
6K1-45945-00-98	.031025	.033076	.345933		.992004	.993004	.993044	.993024	.993204	.....102
6K1-45947-00-98	.031024	.033074	.345932		.992003	.993003	.993043	.993023	.993203	.....102
6K1-45970-00-98 (LH)		.103045				.993012	.993052	.993032		.....103
6K1-45970-01-98 (LH)		.103045				.993012	.993052	.993032		.....103
6K1-45972-00-00 (LH)		.103051				.993015	.993055	.993035	.993215	.....103
6K1-45972-00-98 (LH)		.103051				.993015	.993055	.993035	.993215	.....103
6K1-45972-01-98 (LH)		.103051	.345964			.993015	.993055	.993035	.993215	.....103
6K1-45974-00-00 (LH)		.103049				.993014	.993054	.993034	.993214	.....103
6K1-45974-00-98 (LH)		.103049				.993014	.993054	.993034	.993214	.....103
6K1-45974-01-98 (LH)		.103049				.993014	.993054	.993034	.993214	.....103
6K1-45974-02-98 (LH)		.103049	.345963			.993014	.993054	.993034	.993214	.....103
6K1-45976-00-98 (LH)		.103053	.345965			.993016	.993056	.993036	.993216	.....103
6K1-45976-01-98 (LH)		.103053				.993016	.993056	.993036	.993216	.....103
6K1-45978-00-00 (LH)		.103047				.993013	.993053	.993033	.993213	.....103
6K1-45978-00-98 (LH)		.103047				.993013	.993053	.993033	.993213	.....103
6K1-45978-01-98 (LH)		.103047				.993013	.993053	.993033	.993213	.....103
6K1-45978-02-98 (LH)		.103047	.345962			.993013	.993053	.993033	.993213	.....103
6R1-45970-AO-00 (LH)		.103049				.993014	.993054	.993034	.993214	.....103
6R1-45972-AO-00 (LH)		.103051				.993015	.993055	.993035	.993215	.....103
6R1-45974-AO-00 (LH)		.103053				.993016	.993056	.993036	.993216	.....103
6R1-45976-AO-00 (LH)		.103045				.993012	.993052	.993032		.....103
6R1-45978-AO-00 (LH)		.103047				.993013	.993053	.993033	.993213	.....103
6R4-45970-AO-00 ... SALTWATER		.103048				.993004	.993044	.993024	.993214	.....103
6R4-45972-AO-00 ... SALTWATER		.103050				.993005	.993045	.993025	.993215	.....103
6R4-45974-AO-00 ... SALTWATER		.103052				.993006	.993046	.993026	.993216	.....103
6R4-45976-AO-00 ... SALTWATER		.103044				.993002	.993042	.993022		.....103
6R4-45978-AO-00 ... SALTWATER		.103046				.993003	.993043	.993023		.....103
MAR-GYT3B-03-13 ... STAINLESS		.033095								
MAR-GYT3B-03-15 ... STAINLESS		.033097								
MAR-GYT3B-L6-16 (LH)		.103045				.993012	.993052	.993032		.....103
MAR-GYT3B-L6-18 (LH)		.103047	.345963			.993013	.993053	.993033		.....103
MAR-GYT3B-L6-20 (LH)		.103049	.345964			.993014	.993054	.993034		.....103

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kit
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
YAMAHA (continued)										
MAR-GYT3B-L6-22 (LH) .....	.....	.103051	.345965	.....	.....	.993015	.993055	.993035	.993215	....103
MAR-GYT3B-V4-18 .....	.....	.103057	.335932	.....	.....	.993104	.993144	.....	.....	..See Note 1 ..
MAR-GYT3B-V4-20 .....	.....	.103058	.335933	.....	.....	.993105	.993145	.....	.....	..See Note 1 ..
MAR-GYT3B-V4-22 .....	.....	.103059	.....	.....	.....	.993106	.993146	.....	.....	..See Note 1 ..
MAR-GYT3B-V6-16 .....	.....	.103044	.345932	.....	.....	.993002	.993042	.993022	.....	....103
MAR-GYT3B-V6-18 .....	.....	.103046	.345933	.....	.....	.993003	.993043	.993023	.993203	....103
MAR-GYT3B-V6-20 .....	.....	.103048	.345934	.....	.....	.993004	.993044	.993024	.993204	....103
MAR-GYT3B-V6-22 .....	.....	.103050	.345935	.....	.....	.993005	.993045	.993025	.993205	....103
MAR-GYT3B-V6-24 .....	.....	.103052	.345936	.....	.....	.993006	.993046	.993026	.993206	....103
MAR-GYT3B-V6-25 .....	.....	.103054	.....	.....	.....	.993007	.....	.....	.....	....103
MAR-GYT3B-V6-26 .....	.....	.103054	.....	.....	.....	.993007	.....	.....	.....	....103
MAR-GYT4B-V6-22 .....	.....	.....	.....	.435935	.....	.....	.....	.....	.....	.....
MAR-GYT4B-V6-24 .....	.....	.....	.....	.435936	.....	.....	.....	.....	.....	.....
MAR-GYT4B-V6-26 .....	.....	.....	.....	.435937	.....	.....	.....	.....	.....	.....
MAR-VMAX3-04-18 .....	.....	.103057	.335932	.....	.....	.993104	.993144	.....	.....	..See Note 1 ..
MAR-VMAX3-04-20 .....	.....	.103058	.335933	.....	.....	.993105	.993145	.....	.....	..See Note 1 ..
MAR-VMAX3-04-22 .....	.....	.103059	.....	.....	.....	.993106	.993146	.....	.....	..See Note 1 ..
MAR-VMAX3-06-16 .....	.....	.103044	.345932	.....	.....	.993002	.993042	.993022	.....	....103
MAR-VMAX3-06-18 .....	.....	.103046	.345933	.....	.....	.993003	.993043	.993023	.993203	....103
MAR-VMAX3-06-20 .....	.....	.103048	.345934	.....	.....	.993004	.993044	.993024	.993204	....103
MAR-VMAX3-06-22 .....	.....	.103050	.345935	.435935	.....	.993005	.993045	.993025	.993205	....103
MAR-VMAX3-06-24 .....	.....	.103052	.345936	.435936	.....	.993006	.993046	.993026	.993206	....103
MAR-VMAX3-06-26 .....	.....	.103054	.....	.435937	.....	.993007	.....	.....	.....	....103
MAR-VMAX3-C6-18 (LH) .....	.....	.103047	.345963	.....	.....	.993013	.993053	.993033	.993213	....103
MAR-VMAX3-C6-20 (LH) .....	.....	.103049	.345964	.....	.....	.993014	.993054	.993034	.993214	....103
MAR-VMAX3-C6-22 (LH) .....	.....	.103053	.345965	.....	.....	.993016	.993056	.993036	.993216	....103
QA1920X .....	.031027	.....	.345135	.....	.992006	.993006	.993046	.993026	.993206	....102
QA1920X .....	.101030	.....	.345935	.....	.992006	.993006	.993046	.993026	.993206	....103
QA2000X .....	.031021	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2004X .....	.031022	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2008X .....	.031023	.....	.345131	.....	.992002	.993002	.993042	.993022	.....	....102
QA2008X .....	.101025	.....	.345931	.....	.992002	.993002	.993042	.993022	.....	....103
QA2010X .....	.101026	.....	.....	.....	.992003	.993003	.993043	.993023	.993203	....103
QA2012X .....	.031024	.....	.345132	.....	.992003	.993003	.993043	.993023	.993203	....102
QA2012X .....	.101027	.....	.345932	.....	.992003	.993003	.993043	.993023	.993203	....103
QA2016X .....	.031025	.....	.345133	.....	.992004	.993004	.993044	.993024	.993204	....102
QA2016X .....	.101028	.....	.345933	.....	.992004	.993004	.993044	.993024	.993204	....103
QA2018X .....	.031026	.....	.345134	.....	.992005	.993005	.993045	.993025	.993205	....102
QA2018X .....	.101029	.....	.345934	.....	.992005	.993005	.993045	.993025	.993205	....103
QA2022X .....	.031067	.....	.345136	.....	.....	.....	.....	.....	.....	.....
QA2028X .....	.031043	.....	.....	.....	.992105	.993105	.993145	.....	.....	..See Note 3 ..
QA2030X .....	.031054	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2030X .....	.101036	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2032X .....	.031055	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2032X .....	.101031	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2034X .....	.101032	.....	.335930	.....	.992103	.993103	.993143	.....	.....	..See Note 1 ..
QA2034X .....	.031041	.....	.....	.....	.992103	.993103	.993143	.....	.....	..See Note 3 ..
QA2036X .....	.101033	.....	.335931	.....	.992104	.993104	.993144	.....	.....	..See Note 1 ..
QA2036X .....	.031042	.....	.....	.....	.992104	.993104	.993144	.....	.....	..See Note 3 ..
QA2038X .....	.101034	.....	.335932	.....	.992105	.993105	.993145	.....	.....	..See Note 1 ..
QA2040X .....	.101035	.....	.335933	.....	.992106	.993106	.993146	.....	.....	..See Note 1 ..
QA2040X .....	.031044	.....	.....	.....	.992106	.993106	.993146	.....	.....	..See Note 3 ..
QA2042X .....	.031045	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2064R .....	.032044	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2064R .....	.032045	.033093	.....	.....	.....	.....	.....	.....	.....	.....
QA2078R .....	.032042	.033095	.395929	.....	.....	.....	.993406	.....	.....	....117
QA2078R .....	.032043	.033094	.....	.....	.....	.....	.993405	.....	.....	....117
QA2082R .....	.032041	.033096	.....	.....	.....	.....	.993407	.....	.....	....117

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propellers				XHS Hub Propellers					XHS Hub Kits
	Michigan Match	Rapture	Ballistic	Ballistic XL	Vortex XHS	Rapture XHS	Apollo Std.	Apollo Lg. Dia	Apollo 4-blade	
YAMAHA (continued)										
QA2084R .....	.032040	.033097	.395930	.....	.....	.....	.993408	.....	.....	.....117
QA2084R .....	.032039	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2226R .....	.032044	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA2230R .....Black Diamond	.032042	.033095	.395929	.....	.....	.....	.993406	.....	.....	.....117
QA2232R .....	.032041	.033096	.....	.....	.....	.....	.993407	.....	.....	.....117
QA2234R .....	.032040	.033097	.935930	.....	.....	.....	.993408	.....	.....	.....117
QA3150R .....Black Diamond	.012011	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3152R .....Black Diamond	.012013	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3178R .....	.012008	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3808R .....	.022002	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3812R .....	.022003	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3902R .....	.102003	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3906R .....	.102004	.....	.....	.....	.....	.....	.....	.....	.....	.....
QA3914R .....	.102005	.....	.....	.....	.....	.....	.....	.....	.....	.....
QS5050X .....	.033002	.....	.345131	.....	.992002	.993002	.993042	.993022	.....	.....102
QS5050X .....	.....	.....	.345931	.....	.992002	.993002	.993042	.993022	.....	.....103
QS5052X .....	.033003	.....	.345132	.....	.992003	.993003	.993043	.993023	.993203	.....102
QS5052X .....	.....	.....	.345932	.....	.992003	.993003	.993043	.993023	.993203	.....103
QS5053X .....	.....	.....	.345962	.....	.....	.993013	.993053	.993033	.993213	.....103
QS5054X .....	.033004	.....	.345133	.....	.992004	.993004	.993044	.993024	.993204	.....102
QS5054X .....	.....	.....	.345933	.....	.992004	.993004	.993044	.993024	.993204	.....103
QS5056X .....	.033005	.....	.345134	.....	.992005	.993005	.993045	.993025	.993205	.....102
QS5056X .....	.....	.....	.345934	.....	.992005	.993005	.993045	.993025	.993205	.....103
QS5058X .....	.033006	.....	.345135	.....	.992006	.993006	.993046	.993026	.993206	.....102
QS5070X .....	.....	.....	.345933	.....	.992004	.993004	.993044	.993024	.993204	.....103
QS5071X .....	.....	.....	.345963	.....	.....	.993014	.993054	.993034	.993214	.....103
QS5072X .....	.....	.....	.345934	.....	.992005	.993005	.993045	.993025	.993205	.....103
QS5073X .....	.....	.....	.345964	.....	.....	.993015	.993055	.993035	.993215	.....103
QS5074X .....	.....	.....	.345935	.345941	.992006	.993006	.993046	.993026	.993206	.....103
QS5075X .....	.....	.....	.345965	.....	.....	.993016	.993046	.993026	.993206	.....103
QS5076X .....	.....	.....	.345936	.345937	.....	.993007	.....	.....	.....	.....103
QS5077X .....	.....	.....	.....	.....	.....	.993017	.....	.....	.....	.....103
QS5116X .....	.033016	.....	.335130	.....	.992103	.993103	.993143	.....	.....	.....102
QS5116X .....	.103056	.....	.335930	.....	.992103	.993103	.993143	.....	.....	.....See Note 1
QS5118X .....	.033017	.....	.335131	.....	.992104	.993104	.993144	.....	.....	.....102
QS5118X .....	.103057	.....	.335931	.....	.992104	.993104	.993144	.....	.....	.....See Note 1
QS5120X .....	.033018	.....	.335132	.....	.992105	.993105	.993145	.....	.....	.....102
QS5120X .....	.103058	.....	.335932	.....	.992105	.993105	.993145	.....	.....	.....See Note 1
QS5122X .....	.033019	.....	.335133	.....	.992106	.993106	.993146	.....	.....	.....102
QS5122X .....	.103059	.....	.335933	.....	.992106	.993106	.993146	.....	.....	.....See Note 1
QS5124X .....	.....	.....	.....	.335935	.....	.....	.....	.....	.....	.....
QS5164R .....	.....	.033094	.....	.....	.....	.....	.....	.....	.....	.....
QS5164R .....	.113001	.033094	.....	.....	.....	.....	.....	.....	.....	.....
QS5166R .....	.....	.033095	.395929	.....	.....	.....	.....	.....	.....	.....
QS5168R .....	.....	.033096	.....	.....	.....	.....	.....	.....	.....	.....
QS5170R .....	.....	.033097	.395930	.....	.....	.....	.....	.....	.....	.....
TA2000X .....Black Diamond	.031021	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3150T .....Black Diamond	.012011	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3152T .....Black Diamond	.012013	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3808T .....Black Diamond	.022002	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3902T .....Black Diamond	.102003	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3906T .....Black Diamond	.102004	.....	.....	.....	.....	.....	.....	.....	.....	.....
TA3914T .....Black Diamond	.102005	.....	.....	.....	.....	.....	.....	.....	.....	.....

MICHIGAN WHEEL OEM CROSS REFERENCE

Note 1	Yamaha	
	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

Note 2	Evinrude/Johnson Outboards	
	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




Note 3	Mercury/Mariner	
	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

Note 4	Nissan/Tohatsu	
	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

MICHIGAN MATCH™ TO XHS™ CROSS REFERENCE

				XHS™ Kit	Series	Engine Application	Diameter	Pitch
011002	992103	993103	..106	..V4	..Evinrude/Johnson	..13.75	..15	
011003	992104	993104	..106	..V4	..Evinrude/Johnson	..13.25	..17	
011004	992105	993105	..106	..V4	..Evinrude/Johnson	..13	..19	
011005	992106	993106	..106	..V4	..Evinrude/Johnson	..12.75	..21	
011006	992002	993002	See Note 2	..V6	..Evinrude/Johnson	..15.5	..15	
011007	992003	993003	See Note 2	..V6	..Evinrude/Johnson	..15	..17	
011008	992004	993004	See Note 2	..V6	..Evinrude/Johnson	..14.5	..19	
011009	992005	993005	See Note 2	..V6	..Evinrude/Johnson	..14.25	..21	
011010	992006	993006	See Note 2	..V6	..Evinrude/Johnson	..14.25	..23	
011024	992104	993104	..106	..V4	..Evinrude/Johnson	..14	..17	
011025	992105	993105	..106	..V4	..Evinrude/Johnson	..14	..19	
011026	992106	993106	..106	..V4	..Evinrude/Johnson	..14	..21	
031001	992103	993103	..102	..V4	..Mercury (old)	..13	..15	
031002	992104	993104	..102	..V4	..Mercury (old)	..13	..17	
031003	992105	993105	..102	..V4	..Mercury (old)	..13	..19	
031004	992106	993106	..102	..V4	..Mercury (old)	..13	..21	
031023	992002	993002	..102	..V6	..Mercury/Mariner/Yamaha(old)	..15.25	..15	
031024	992003	993003	..102	..V6	..Mercury/Mariner/Yamaha(old)	..14.5	..17	
031025	992004	993004	..102	..V6	..Mercury/Mariner/Yamaha(old)	..14	..19	
031026	992005	993005	..102	..V6	..Mercury/Mariner/Yamaha(old)	..13.75	..21	
031027	992006	993006	..102	..V6	..Mercury/Mariner/Yamaha(old)	..13.5	..23	
031035	992002	993002	..102	..I/O	..Mercruiser thru 1982	..16	..15	
031036	992003	993003	..102	..I/O	..Mercruiser thru 1982	..15.75	..17	
031037	992004	993004	..102	..I/O	..Mercruiser thru 1982	..15.5	..19	
031038	992005	993005	..102	..I/O	..Mercruiser thru 1982	..15.25	..21	
031039	992006	993006	..102	..I/O	..Mercruiser thru 1982	..15	..23	
031041	992103	993103	See Note 3	..V4	..Mercury/Mariner/Force/Yamaha(old)/Honda	..13.75	..15	
031042	992104	993104	See Note 3	..V4	..Mercury/Mariner/Force/Yamaha(old)/Honda	..13.25	..17	
031043	992105	993105	See Note 3	..V4	..Mercury/Mariner/Force/Yamaha(old)/Honda	..13	..19	
031044	992106	993106	See Note 3	..V4	..Mercury/Mariner/Force/Yamaha(old)/Honda	..12.75	..21	
031051	992003	993003	..102	..V6	..Mercury/Mariner	..16	..16	
031052	992004	993004	..102	..V6	..Mercury/Mariner	..15.5	..18	
031064	992003	993003	..102	..V6	..Mercury/Mariner	..15	..17	
031065	992004	993004	..102	..V6	..Mercury/Mariner	..14.5	..19	
031066	992005	993005	..102	..V6	..Mercury/Mariner	..14.25	..21	
031068	992006	993006	..102	..V6	..Mercury/Mariner	..14	..23	
032092	992104	993104	..102	..V4	..Mercury (old)	..13	..17	
032093	992105	993105	..102	..V4	..Mercury (old)	..13	..19	
032094	992106	993106	..102	..V4	..Mercury (old)	..13	..21	
061001	992103	993103	..110	..V4	..Suzuki	..13.75	..15	
061002	992104	993104	..110	..V4	..Suzuki	..13.25	..17	
061003	992105	993105	..110	..V4	..Suzuki	..13	..19	
061004	992106	993106	..110	..V4	..Suzuki	..13	..21	
101025	992002	993002	..103	..V6 & I/O	..Yamaha (current)/Yamaha I/O	..15.25	..15	
101026	992003	993003	..103	..V6 & I/O	..Yamaha (current)/Yamaha I/O	..14.625	..16	
101027	992003	993003	..103	..V6 & I/O	..Yamaha (current)/Yamaha I/O	..14.5	..17	
101028	992004	993004	..103	..V6 & I/O	..Yamaha (current)/Yamaha I/O	..14	..19	
101029	992005	993005	..103	..V6 & I/O	..Yamaha (current)/Yamaha I/O	..13.75	..21	
101030	992006	993006	..103	..V6 & I/O	..Yamaha (current)/Yamaha I/O	..13.5	..23	
101032	992103	993103	See Note 1	..V4	..Yamaha (current)	..13.5	..15	
101033	992104	993104	See Note 1	..V4	..Yamaha (current)	..13.25	..17	
101034	992105	993105	See Note 1	..V4	..Yamaha (current)	..13	..19	
101035	992106	993106	See Note 1	..V4	..Yamaha (current)	..12.625	..21	
142010	992103	993103	..109	..V4	..Nissan/Tohatsu	..13.5	..14.6	
142011	992103	993103	..109	..V4	..Nissan/Tohatsu	..13.5	..15.7	
142012	992104	993104	..109	..V4	..Nissan/Tohatsu	..12.9	..17.6	
142013	992105	993105	..109	..V4	..Nissan/Tohatsu	..12.6	..19.9	
161001	992002	993002	..105	..I/O	..Volvo SX/OMC Cobra SX	..15.5	..15	
161002	992003	993003	..105	..I/O	..Volvo SX/OMC Cobra SX	..15	..17	
161003	992004	993004	..105	..I/O	..Volvo SX/OMC Cobra SX	..14.5	..19	
161004	992005	993005	..105	..I/O	..Volvo SX/OMC Cobra SX	..14.25	..21	



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

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

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

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

Need your Propeller Repaired?

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

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

A free service from:

Find the prop that matches your needs.

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

Name: _____

Street: _____

City/State: _____

Zip: _____ Phone: _____

Fax: _____ Date: _____

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

PLEASURE BOAT – OUTBOARD & STERN DRIVE

Boat Data

Manufacturer: _____ Model / Year: _____

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

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

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

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

Boat Use: _____

Outboard & Stern Drive Engine Data

Motor – Manufacturer: _____ Model: _____

Year: _____ Gas Diesel

*Engine Mfg. Rating: _____ HP @ Engine Operating Range of _____ to _____ RPM

(low to high)

Cubic Inch Displacement (CID): _____

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

RPM: _____ Speed: _____

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

Does your boat have hydraulic power trim? Yes No

Stern Drive – Manufacturer: _____

Model: _____ Year: _____

Propeller Data

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

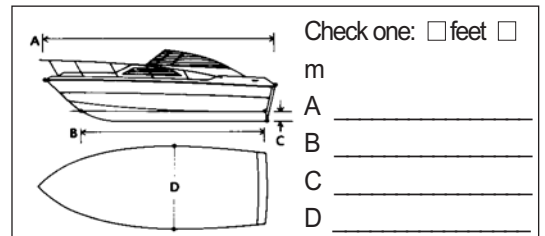
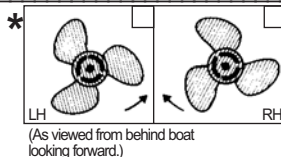
Manufacturer: _____ Model: _____

Material: Aluminum Stainless Steel Other: _____

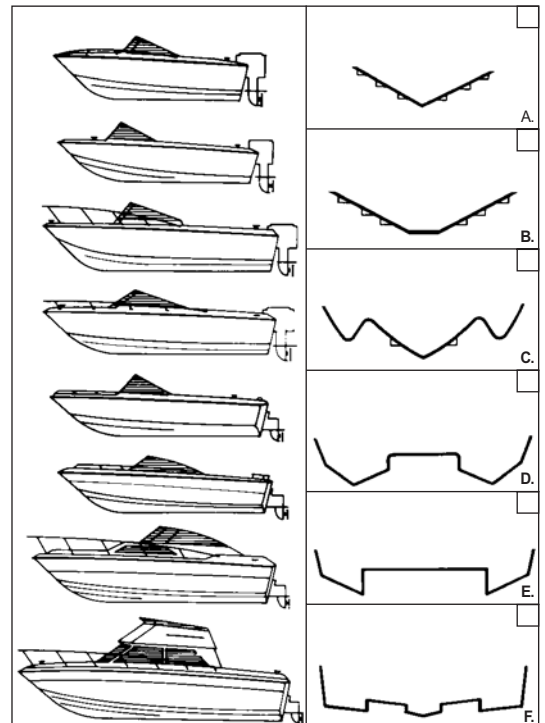
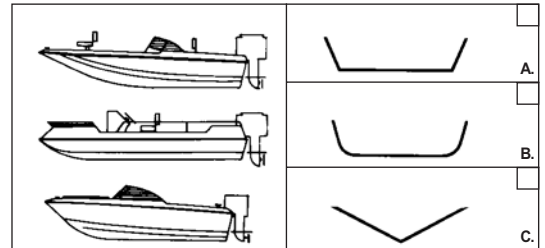
Part No. _____

*Shaft Size: _____

Your Comments:



Circle boat type. Check hull type.



For Michigan Wheel Corp. use only

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

Blades: _____ Material: _____

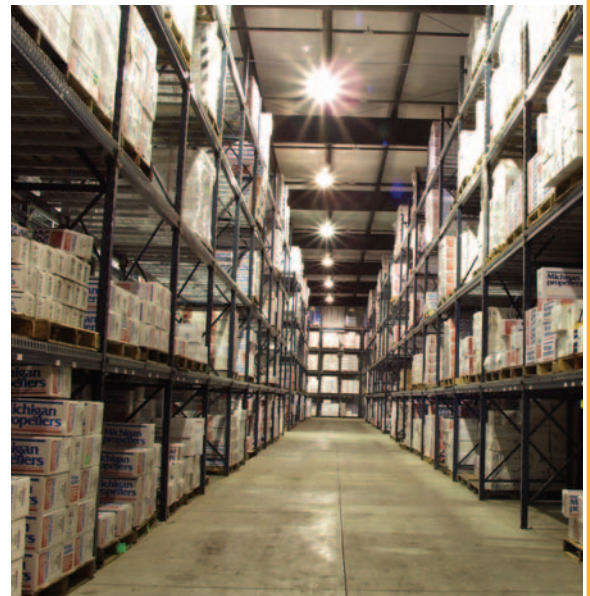
Comments: _____



Michigan Wheel Corporation Outboard and Sterndrive Warehouse



Michigan Wheel Corporation - Headquarters





VORTEX^{XHS}
PERFORMANCE PROPELLERS



APOLLO^{XHS}



RAPTURE^{XHS}



MICHIGAN
AMATCH



BALLISTICTM
STAINLESS STEEL PROPS




Ambush 4

MICHIGAN WHEEL CORPORATION

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

Outboard & Sterndrive Warehouse

2685 Northridge Avenue N.W., Suite G
Grand Rapids, MI 49544

Phone: (616) 452-6941

Fax: (616) 247-0227

E-mail: info@miwheel.com

www.miwheel.com



UMMA
UNITED MARINE MANUFACTURERS ASSN. INC.

Members NMDA, NMMA, NAMPS, NMPA, UMMA

©2005 Michigan Wheel Corporation.
Printed in the USA. September 2005
All Rights Reserved.

Part Number 99021206