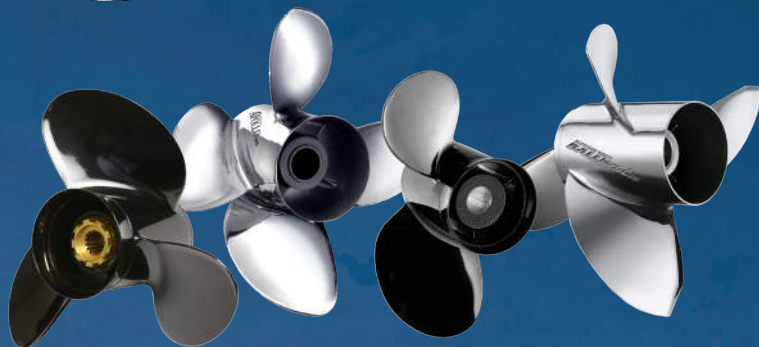


Michigan Wheel Marine



2015 MASTER CATALOG OUTBOARD AND STERNDRIVE PROPELLERS



Quicker Planing



Faster Top-End Speeds



Better Handling



BALLISTIC[®]XHS[®]

STAINLESS STEEL PROPS



The ultimate in performance, Ballistic propellers now utilize Michigan Wheel's XHS Hub design to provide an even greater performance value. Ballistic propellers feature the proven Power Tip for peak efficiency, and highly cambered blade sections for higher speed and better bow lift.



Available in 3-blade configurations for 9.9 HP thru V6/V8 Outboard & Sterndrive. 3-Blade Xtra Lift (XL) configurations available for V4 & V6 Outboards, and V6/V8 Sterndrives. 4-Blade XL available for V6/V8 Outboards & Sterndrives.

NEW BALLISTIC PART NUMBER SCHEME

EXAMPLE:

9

6

3

5

2

3

1ST DIGIT: HUB TYPE

- 0-4: RUBBER HUB
- 5-9: XHS HUB

2ND DIGIT: NUMBER OF BLADES

- 2: 2-BLADE
- 3: 3-BLADE
- 4: 4-BLADE
- 5: 3-BLADE XL
- 6: 4-BLADE XL

3RD DIGIT: MATERIAL / ROTATION

- RH ALUMINUM CUPPED: 1
- RH ALUMINUM UNCUPPED: 2
- RH STAINLESS STEEL CUPPED: 3
- RH STAINLESS STEEL UNCUPPED: 4
- LH ALUMINUM CUPPED: 5
- LH ALUMINUM UNCUPPED: 6
- LH STAINLESS STEEL CUPPED: 7
- LH STAINLESS STEEL UNCUPPED: 8

4TH DIGIT: GEARCASE SIZE

- 9.9 HP - 25 HP: 0
- 20 HP - 30 HP: 1
- 30 HP - 70 HP: 2
- 40 HP - 70 HP: 3
- 4 1/2" GEARCASE: 4
- 4 3/4" GEARCASE: 5

5TH - 6TH DIGIT: PITCH



VORTEX[®] XHS[®] Series



Now available in 16" x 16" (Part # 931516) for V6 Outboards and Sterndrives. Ideal for heavier applications that require an increased blade area and lower pitch to generate more thrust.



Back by Popular Demand

MICHIGAN MATCH[®] YAMAHA V4

Michigan Match Yamaha V4 propellers featuring OEM equivalent blade geometry.



13-5/8	R	13	3	6E5-45949-00-00	101031
13-1/2	R	15	3	6E5-45947-00-00	101032
13-1/4	R	17	3	6E5-45945-01-00	101033
13	R	19	3	6E5-45941-00-00	101034

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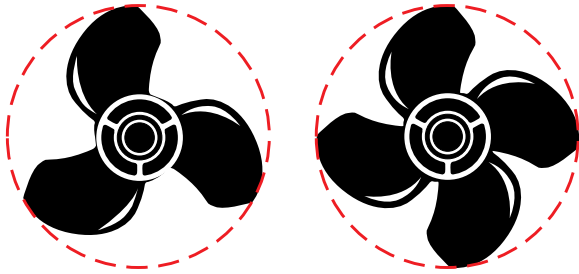
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PROPELLER BASICS

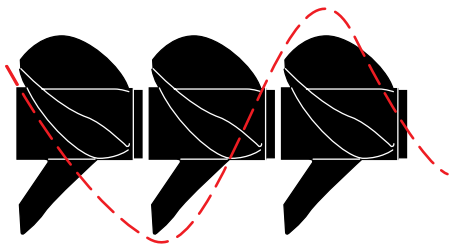
Diameter

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



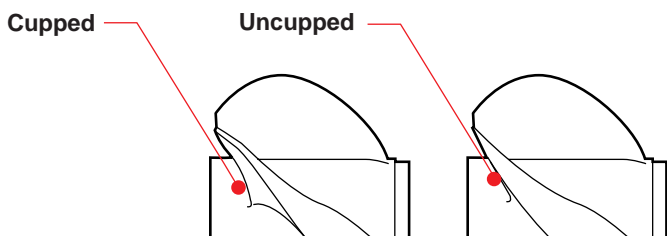
Pitch

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



Cupping

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

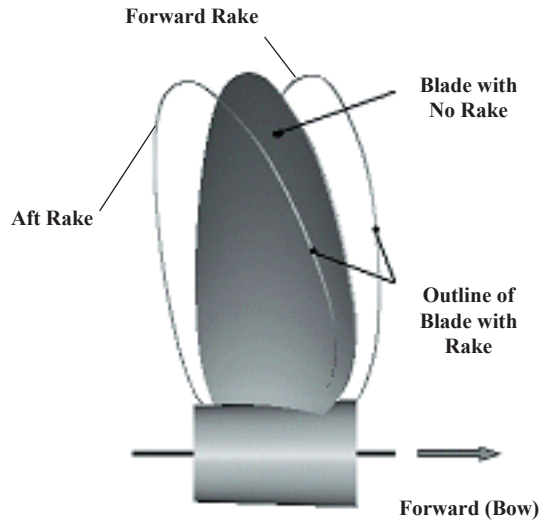


Rake

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

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

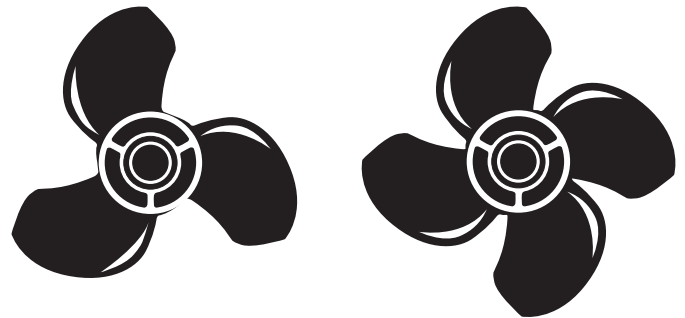
- Increased Top End Speed
- Faster Planing Speed (Hole Shot)
- Improved Low End Punch
- Load Carrying Capability

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

3-Blade Propeller vs. 4-Blade Propeller

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 practical, all-around boat performance. These propellers enhance handling, hole shot, load-carrying performance, and fuel efficiency.



Advantage of a Left Hand Propeller

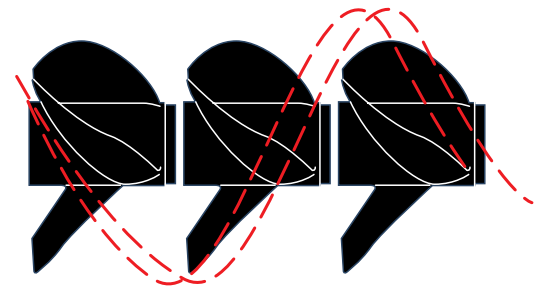
Two propellers spinning in the same direction on twin engine boats will create steering torque. In other words, two right-hand propellers pull the stern hard to the right and the bow to the left.

Two opposite-direction (counter-rotating) 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.



Affect of Slip on Performance

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.



Aluminum vs. Stainless Steel

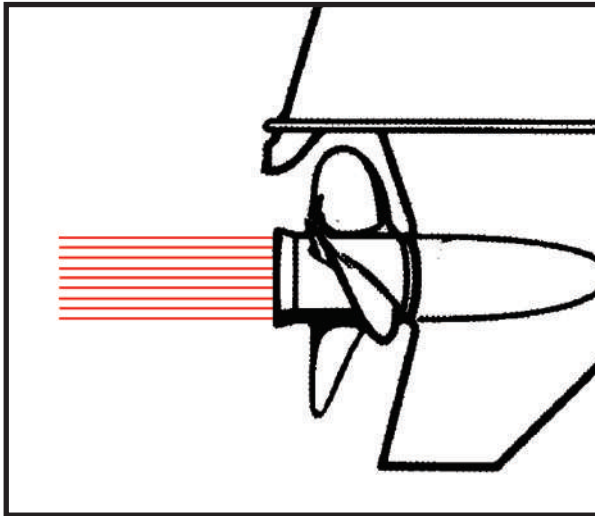
Most pleasure boats are factory equipped with aluminum propellers. Aluminum propellers are relatively inexpensive, easy to repair, and under normal conditions can last for many years.

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.



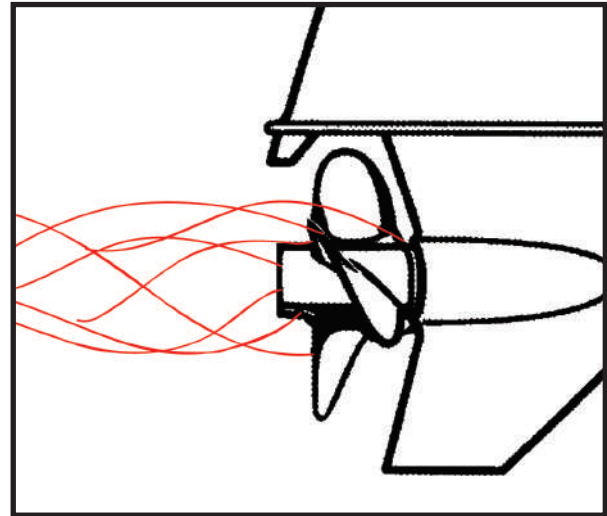
PROPELLER BASICS

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



THRU-HUB EXHAUST

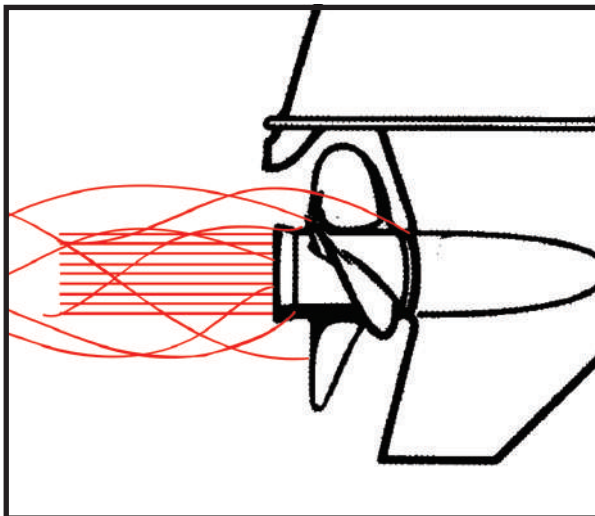
Thru-hub exhaust propellers consist of a round barrel to which the blades are attached. The exhaust passes through the barrel and out the back, without making contact with the propeller blades. This provides a good, clean water flow to the blades, usually resulting in good acceleration and hole shot.



OVER-HUB EXHAUST

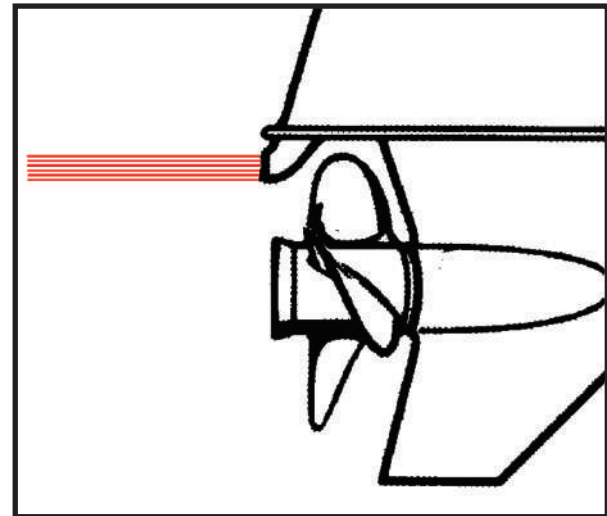
Over-hub exhaust propellers have the blades attached directly to the smaller tube that fits over the propeller shaft, eliminating the larger exhaust tube. These types of propellers are often used for attaining maximum top speeds. (On some boats, the hole shot can often suffer due to the extreme exhaust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

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 better hole shot on some engine/boat combinations.



NON THRU-HUB EXHAUST

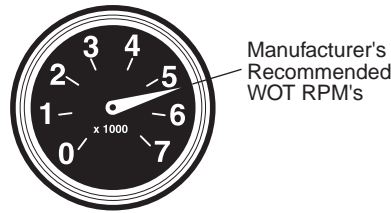
Non thru-hub exhaust propellers are used for inboards using shaft driven propellers, sterndrives using through hull exhaust, and on some outboards that don't route the exhaust through the lower unit torpedo.

CHOOSING THE CORRECT PITCH

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.

1) 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 Pages A6-A7 of this catalog.



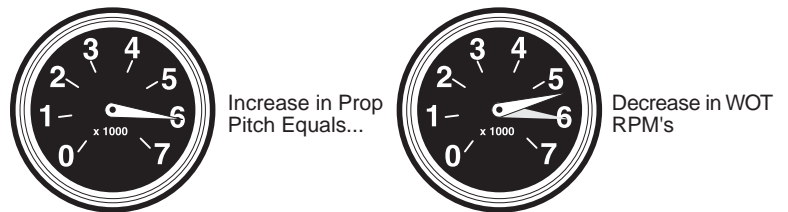
2) Test for Maximum RPM

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.



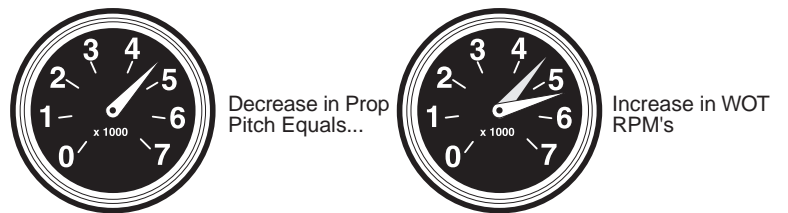
3a) If RPM are Higher Than Recommended

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.



3b) If RPM are Lower Than Recommended

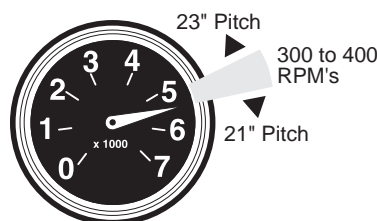
If the actual WOT RPM range is *below* the recommended range, install the next smaller pitch propeller to *increase* your WOT RPM. Re-test the WOT RPM.



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

Effect of Propeller 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® E-TEC® RPM CHART			
HP/Model	Years	WOT RPM	Gear Ratio
25 HP	2009-2010	5000-6000	2.15
25 HP	2011 Thru	5500-6100	2.15
30 HP	2009-2010	5000-6000	2.15
30 HP	2011 Thru	5500-6100	2.15
40 HP	2004-2010	5000-6000	2.67
40 HP	2011 Thru	5500-6000	2.67
50 HP	2004 Thru	5500-6000	2.67
55 HP	2009 Thru	5500-6000	2.67
60 HP	2004 Thru	5500-6000	2.67
75 HP	2004 Thru	4500-5500	2.00
90 HP	2004 Thru	4500-5500	2.00 / 2.25*
115 HP	2004-2007	4500-5500	2.00 / 2.25*
115 HP	2008 Thru	5500-6000	2.00
130 HP	2004-2008	5000-6000	2.00 / 2.25*
130 HP	2009 Thru	5500-6000	2.00 / 2.25*
150 HP	2008 Thru	4850-5850	1.86
175 HP	2008 Thru	4850-5850	1.86
200 HP	2006	4750-5750	1.86
200 HP	2007 Thru	4850-5850	1.86
225 HP	2006 Thru	4500-5800	1.86
250 HP	2006 Thru	4500-5800	1.85
300 HP	2009 Thru	5000-6000	1.86
High Output Models			
15 HP H.O.	2011 Thru	5000-5500	2.15
90 HP H.O.	2014 Thru	5500-6000	2.00 / 2.25*
115 HP H.O.	2009 Thru	5500-6000	2.00 / 2.25*
135 HP H.O.	2014 Thru	5300-6000	1.85 / 1.86*
150 HP H.O.	2009 Thru	4850-5850	1.86
200 HP H.O.	2006-2010	4500-5800	1.86
200 HP H.O.	2011 Thru	4500-5800	1.85
225 HP H.O.	2006-2008	4500-5800	1.86
225 HP H.O.	2009-2010	4500-5800	1.71
225 HP H.O.	2011 Thru	4500-5800	1.85
250 HP H.O.	2008-2011	4500-6000	1.71
250 HP H.O.	2012 Thru	5000-6000	1.85
Pontoon Series			
65 HP	2014 Thru	5000-5500	2.38
90 HP	2014 Thru	5000-5500	2.38
115 HP	2014 Thru	5300-6000	1.86 / 2.25*
150 HP	2014 Thru	5300-6000	1.86 / 2.25*

* May vary based on engine model.

EVINRUDE® RPM CHART			
HP/Model	Years	WOT RPM	Gear Ratio
9.9 HP	1974-1984	4500-5000	2.42
9.9 HP	1985-2005	5000-6000	2.42
15 HP	1974-1980	5500-6500	2.42
15 HP	1981-1993	5500-7000	2.42
15 HP	1997-2005	5000-6000	2.42
65 HP*	1984-2000	4500-5500	2.42
65 HP*	2001	5000-6000	2.25
Ficht			
90 HP Ficht	1998	4500-5500	2.00
90 HP Ficht	1999-2000	5500-6000	2.00
115 HP Ficht	1998	5000-6000	2.00
115 HP Ficht	1999-2000	5500-6000	2.00
150 HP Ficht	1999-2000	4800-5300	1.86
175 HP Ficht	1999-2000	5300-5800	1.86
200 HP Ficht	2001-2002	5500-6000	1.86
225 HP Ficht	1999-2000	5500-6000	1.86
225 HP Ficht H.O.	2003	5500-6000	1.86
250 HP Ficht	2000	5500-6000	1.86
Ram			
90 HP Ram	2001-2003	5250-5750	2.00
115 HP Ram	2001-2003	5250-5750	2.00
150 HP Ram	2001-2003	4750-5250	1.86
175 HP Ram	2001-2003	5250-5750	1.86
200 HP Ram	2003	5000-6000	1.85
225 HP Ram	2001-2003	5500-6000	1.86
250 HP Ram	2001-2003	5500-6000	1.86

*Commercial Models.

EVINRUDE® 4-STROKE RPM CHART			
HP/Model	Years	WOT RPM	Gear Ratio
5 HP	1999	5500-6500	2.23
5 HP	2000-2003	5000-6000	2.23
6 HP	1998-1999	5500-6500	2.23
6 HP	2000-2002	5000-6000	2.23
8 HP	1996-2002	5000-6000	2.42
9.8 HP	2012 Thru	5000-6000	2.08
9.9 HP	1995-2001	5000-6000	2.42
15 HP	1995-2001	5000-6000	2.42
15 HP	2012 Thru	5000-6000	2.15
25 HP	-	4700-5300	2.09
30 HP	-	5200-5800	2.27
40 HP	1999-2003	5200-5800	2.27
50 HP	1999-2003	5900-6500	2.27
70 HP	1998	5000-6000	2.42
70 HP	1999-2003	5200-5800	2.42

JOHNSON® RPM CHART			
HP/Model	Years	WOT RPM	Gear Ratio
4 HP	1980-1983	4000-5000	1.65
6 HP	1986-2005	4500-5500	2.23
8 HP	2000-2005	5000-6000	2.23
9.9 HP	2000-2005	5000-6000	2.42
15 HP	2000-2004	5000-6000	2.42
15 HP	2005-2007	5500-6500	2.42
25 HP	1984-2005	4500-5500	2.15
25 HP 3 Cyl.	1984-2005	5200-5800	2.15
30 HP	1984-2000	5200-5800	2.15
30 HP	2001-2005	4500-5500	2.23
35 HP	1981-1983	5200-5800	1.93
40 HP	1984-2005	4500-5500	2.42
50 HP	1975-2005	4500-5500	2.42
60 HP 3 Cyl.	1989-2003	5000-6000	2.42
70 HP 3 Cyl.	1974-2001	4500-5500	2.42
90 HP*	2001-2006	4500-5500	2.00
115 HP*	2001-2006	4500-5500	2.00
135 HP*	-	5000-6000	2.25
150 HP*	2003-2006	4500-5500	1.86
175 HP*	2003-2006	4500-5500	1.86
200 HP*	1987-2001	5000-6000	1.86
225 HP*	1986-2001	5000-6000	1.86

*Includes OceanPro Models.

JOHNSON® 4-STROKE RPM CHART			
HP/Model	Years	WOT RPM	Gear Ratio
6 HP	1997-2003	5500-6500	2.23
8 HP	1996-2004	5000-6000	2.42
9.9 HP	2002-2007	4500-5500	1.92
15 HP	2002-2007	5400-6000	1.92
25 HP	2004-2006	5000-5600	2.09
30 HP	2004-2007	5500-6100	2.09
40 HP	1999-2005	5200-5800	2.27
50 HP	1999-2005	5900-6500	2.27
60 HP	1998-2005	4700-5300	2.42
70 HP	1999-2005	5200-5800	2.42
90 HP	2003-2005	4500-5500	2.59
115 HP	2003-2005	5000-6000	2.59
140 HP	2003-2005	5600-6200	2.38
200 HP	2004-2005	5000-6000	2.29
225 HP	2004-2005	5000-6000	2.29

MERCURY® 4-STROKE RPM CHART			
HP/Model	Years	WOT RPM	Gear Ratio
8 HP	1995-2004	4500-5500	2.00
8 HP	2005 Thru	5000-6000	2.08
9.9 HP	1995-2004	4500-5500	2.01
9.9 HP	2005 Thru	5000-6000	2.08
15 HP	1989-2006	4500-5500	2.00
15 HP	2007 Thru	5000-6000	2.15
20 HP	2009-2013	5250-6250	2.15
20 HP	2014 Thru	5400-6100	2.15
25 HP	2004-2005	5500-6000	2.42
25 HP	2006 Thru	5000-6000	1.92
30 HP	1999-2005	5500-6000	2.00
30 HP	2006 Thru	5250-6250	1.92
40 HP	1997 Thru	5500-6000	2.00
50 HP	1998 Thru	5500-6000	1.83
60 HP	2001 Thru	5500-6000	1.83
75 HP	2004-2006	4500-5500	2.33
75 HP	2007 Thru	5000-6000	2.33
90 HP	2004 Thru	5000-6000	2.33
115 HP	2001-2006	5000-6000	2.07
115 HP EFI	2007 Thru	5800-6400	2.07
Bigfoot			
9.9 HP Bigfoot	2006 Thru	5000-6000	2.42
25 HP Bigfoot	1999-2001	5500-6000	2.40
25 HP Bigfoot	2002-2003	5250-5750	2.40
40 HP EFI Bigfoot	2004 Thru	5500-6000	2.33
50 HP Bigfoot	All Years	5500-6000	2.33
60 HP Bigfoot	2001 Thru	5500-6000	2.33
Command Thrust			
40 HP Command Thrust	2014 Thru	5500-6000	2.33
50 HP Command Thrust	2014 Thru	5500-6000	2.33
60 HP Command Thrust	2014 Thru	5500-6000	2.33
90 HP Command Thrust	2014 Thru	5000-6000	2.38
115 HP Command Thrust	2014 Thru	5000-6000	2.38

MERCURY® OPTIMAX® RPM CHART			
HP/Model	Years	WOT RPM	Gear Ratio
75 HP	2004 Thru	5000-5750	2.33
90 HP	2005 Thru	5000-5750	2.33
115 HP	2007 Thru	5000-5700	2.07
125 HP	2011 Thru	5000-5750	2.07
135 HP	1996-2007	5000-5600	2.00
135 HP	2008 Thru	5250-5750	2.00
150 HP	2004 Thru	5250-5750	1.87
175 HP	2000-2010	5250-5750	1.87
200 HP	1998 Thru	5000-5750	1.75
225 HP	1998-2012	5000-5750	1.75
225 HP SW	-	5000-5750	1.75
250 HP	2007 Thru	5500-6000	1.75
Pro XS			
150 HP Pro XS	2011 Thru	5250-5750	1.87
175 HP Pro XS	2008 Thru	5250-5750	1.87
200 HP Pro XS	2011-2012	5500-6000	1.75
200 HP Pro XS	2013 Thru	5000-5750	1.75
225 HP Pro XS	2006 Thru	5500-6000	1.75
250 HP Pro XS	2007 Thru	5500-6000	1.75

MERCURY® VERADO® RPM CHART			
HP/Model	Years	WOT RPM	Gear Ratio
135 HP Verado	2007-2010	5200-6400	2.08
150 HP Verado	2006 Thru	5800-6400	2.08
175 HP Verado	2006 Thru	5800-6400	2.08
200 HP Verado	2005 Thru	5800-6400	2.08
225 HP Verado	2005 Thru	5800-6400	1.85
250 HP Verado	2005 Thru	5800-6400	1.85
250 HP Verado Pro	2011 Thru	5800-6400	1.85
275 HP Verado	2005-2010	5800-6400	1.85
300 HP Verado	2008 Thru	5800-6400	1.75
300 HP Verado Pro	2011 Thru	5800-6400	1.75

OMC® RPM CHART			
HP/Model	Years	WOT RPM	Gear Ratio
1.6 L V4 Sea Drive		4500-5500	
1.8 L V4 Sea Drive		5000-6000	
2.3 L Cobra		5200-5600	2.00
2.5 L Sea Drive		5000-5500	1.86
2.5 L Model 400		4200-4600	
2.6 L Sea Drive		5000-5500	1.86
3.0 L Model 400		4200-4600	1.85
3.8 L Sea Drive		4200-4600	
4.3 L		4200-4600	1.66
5.0 L		4200-4600	1.66
5.0 L EFI		4200-4600	1.60
5.8 L		4000-4400	1.51
5.8 L EFI		4200-4600	1.51
5.8 L King Cobra		4600-5000	1.43 / 1.51
7.4 L King Cobra		4200-4600	1.42 / 1.63

MERCURUISER® RPM CHART			
HP/Model	Years	WOT RPM	Gear Ratio
3.0 L 135		4400-4800	2.00 A1
4.3 L 190		4400-4800	1.81 A1
4.3 L 205		4400-4800	1.62 A1
4.3 L EFI 210		4400-4800	1.62 A1
4.3 L MPI 220 HP		4400-4800	1.62 A1
5.0 L 220		4400-4800	1.62 A1 / 1.65 B1
5.0 L EFI 240		4400-4800	1.47 A1 / 1.65 B1
5.0 L MPI 260 HP		4600-5000	1.62 A1 / 1.50 B1
5.7 L 250		4400-4800	1.47 A1 / 1.65 B1
5.7 L EFI 260		4400-4800	1.47 A1 / 1.65 B1
350 Mag MPI 300		4800-5200	1.47 A1 / 1.50 B1
350 Horizon 300		4600-5000	1.47 A1 / 1.50 B1
MX 6.2 L MPI 320		4800-5200	1.65 B1
496 Mag 375		4400-4800	1.50 B1
496 Mag H.O. 425		4600-5000	1.50 B1

ENGINE RPM CHART

YAMAHA® RPM CHART

HP/Model	Years	WOT RPM	Gear Ratio
6 HP 4-Stroke	1986 Thru	4500-5500	2.08
8 HP	1986 Thru	4500-5500	2.08
8 HP 4-Stroke	1986 Thru	5000-6000	2.08
9.9 HP	1984 Thru	4500-5500	2.08
F9.9 4-Stroke	1986-2007	4500-5500	2.08
F9.9 4-Stroke	2008 Thru	5000-6000	2.08
15 HP	1984 Thru	4500-5500	2.08
F15 4-Stroke	2000-2006	4500-5500	2.08
F15 4-Stroke	2007 Thru	5000-6000	2.08
F20 4-Stroke	2007 Thru	5000-6000	2.08
25 HP	1988 Thru	4500-5500	2.08
F25 4-Stroke	1998-2006	5000-6000	2.08
F25 4-Stroke	2010 Thru	5000-6000	2.08
30 HP	1979-2002	4500-5500	1.85
F30 4-Stroke	2001-2005	5000-6000	2.00
40 HP	1984 Thru	4500-5500	1.85
F40 4-Stroke	1999 Thru	5000-6000	2.00
50 HP	1984 Thru	4500-5500	1.85
F50 4-Stroke	1995 Thru	5000-6000	1.85
T50 (High Thrust)	1996 Thru	5000-6000	2.33
55 HP	1976-1995	4500-5500	1.84
60 HP	1976-1991	4500-5500	2.33
F60 4-Stroke	1999 Thru	5000-6000	1.85
T60 (High Thrust)	2003 Thru	5000-6000	2.33
70 HP	2000 Thru	5000-6000	2.33
F70 4-Stroke	2010 Thru	5300-6300	2.33
F75 4-Stroke	2003-2012	5000-6000	2.31
F75 4-Stroke	2013 Thru	5000-6000	2.27
F80 4-Stroke	1999-2002	5000-6000	2.31
85 HP	1991-1997	4500-5500	2.00
90 HP	1984 Thru	4500-5500	2.00
F90 4-Stroke	2003 Thru	5000-6000	2.27
F100 4-Stroke	1999 Thru	5000-6000	2.31
115 HP	1994 Thru	4500-5500	2.00
F115 4-Stroke	2000 Thru	5000-6000	2.15
130 HP	2001-2003	5000-6000	2.00
F150 4-Stroke	2004 Thru	5000-6000	2.00
175 HPDI	2007 Thru	4500-5500	1.86
F175 4-Stroke	2014 Thru	5000-6000	1.86
200 HP	1984 Thru	4500-5500	1.86
200 HPDI	2000 Thru	4500-5500	1.86
F200 4-Stroke	2002-2012	5000-6000	2.00
F200 4-Stroke	2013 Thru	5000-6000	1.86
225 HP	2006 Thru	5000-6000	1.75
F225 4-Stroke	2002 Thru	5000-6000	2.00
F225 Offshore	2010 Thru	5000-6000	1.75
250 HPDI	2003 Thru	4500-5500	1.81
F250 4-Stroke	2002 Thru	5000-6000	2.00
F250 Offshore	2010 Thru	5000-6000	1.75
300 HPDI	Thru 2004	4500-5500	1.75
300 HPDI	2005 Thru	4650-5650	1.75
F300 4-Stroke	2009-2012	5000-6000	1.75
F300 Offshore	2013 Thru	5000-6000	1.75

YAMAHA® V MAX RPM CHART

HP/Model	Years	WOT RPM	Gear Ratio
V Max 150 TRP		4500-5500	2.00
V Max 150		4500-5500	2.00
V Max 150 EFI		4500-5500	2.00
V Max 175		4500-5500	1.86
V Max 150 HPDI		4500-5500	2.00
V Max 175 HPDI		4500-6000	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
V Max 250 3.1 EFI		4500-5500	1.75
V Max 200 2.6 HPDI (2002-2004)		4500-5500	1.86
V Max 200 3.3 HPDI (2005)		4500-5500	1.81
V Max 200 3.3 HPDI (2006 Thru)		5000-6000	1.81
V Max 225 3.3 HPDI (Thru 2005)		4500-5500	1.75
V Max 225 3.3 HPDI (2006 Thru)		5000-6000	1.75
V Max 250 3.3 HPDI (Thru 2005)		4500-5500	1.75
V Max 250 3.3 HPDI (2006 Thru)		5000-6000	1.75
V Max 300 3.3 HPDI (Thru 2004)		4500-5500	1.75
V Max 300 3.3 HPDI (2005)		4650-5650	1.75
V Max 300 3.3 HPDI (2006 Thru)		5000-6000	1.75
VF 150 V Max SHO 4-Stroke		5000-6000	2.00
VF 200 V Max SHO 4-Stroke		5000-6000	1.75
VF 225 V Max SHO 4-Stroke		5000-6000	1.75
VF 250 V Max SHO 4-Stroke		5000-6000	1.75

YAMAHA® STERNDRIVES RPM CHART

HP/Model	Years	WOT RPM
3.0L (130 HP) EST/PSR	1989-1993	4200-4600
4.3L (205 HP) EST/PSR/YEMS	1989-1993	4400-4800
5.0L (205 HP) EST/PSR/YEMS	1989-1993	4200-4600
5.7L (260 HP) EST/PSR/YEMS	1989-1993	4200-4600

NISSAN®/TOHATSU® RPM CHART

HP/Model	Years	WOT RPM	Gear Ratio
9.9 HP	1984-1998	4500-5300	1.85
9.9 HP 4-Stroke	2000	4500-5500	2.15
15 HP	1998-2000	5200-5800	1.85
15 HP 4-Stroke	2000 Thru	5000-6000	2.15
18 HP	1985-1997	4750-5500	1.85
18 HP	1998-2001	5200-5800	1.85
18 HP 4-Stroke	2001-2008	5000-6000	2.12
20 HP 4-Stroke	2007 Thru	5400-6100	2.15
25 HP	1986-1998	4800-5500	1.92
25 HP	1999-2001	5000-6000	1.92
25 HP 4-Stroke	2002 Thru	5000-6000	1.92
30 HP	1985-1998	4800-5500	1.92
30 HP	1999-2001	5150-5850	1.92
30 HP 4-Stroke	2002 Thru	5250-6250	1.92
40 HP (40D)	1990-1999	4500-5500	1.85
40 HP TLDI	2003 Thru	5150-5850	1.85
50 HP	1991-1999	5000-5700	1.85
50 HP	2000 Thru	5150-5850	1.85
50 HP TLDI	2003 Thru	5150-5850	1.85
70 HP	1992-1997	4900-5600	2.30
70 HP TLDI	1998 Thru	5150-5850	2.30
75 HP TLDI	2010 Thru	5150-5850	2.33
90 HP	1987-1999	5000-5500	2.00
90 HP	2000-2009	5150-5850	2.00
90 HP TLDI	2010 Thru	5150-5850	2.33
115 HP	1993-2002	5200-5700	2.00
115 HP TLDI	2003 Thru	5150-5850	2.00
120 HP	1992-2003	5200-5700	2.00
140 HP	1992-2003	5200-5700	2.00
Tohatsu BFT			
BFW60	2014 Thru	5000-6000	2.33
BFT60	2014 Thru	5000-6000	2.07
BFT75	2014 Thru	5000-6000	2.33
BFT90	2014 Thru	5300-6300	2.33
BFT115	2014 Thru	4500-6000	2.14
BFT150	2014 Thru	5000-6000	2.14
BFT200	2014 Thru	5000-6000	1.86
BFT225	2014 Thru	5000-6000	1.86
BFT250	2014 Thru	5300-6300	2.00

HONDA® RPM CHART

HP/Model	Years	WOT RPM	Gear Ratio
BF 8	1987-1999	4950-5500	2.40
BF 9.9	1988-1999	4500-5500	2.10
BF 9.9	2000 Thru	5000-6000	2.33
BF 15	1991-2002	5000-6200	2.10
BF 15	2003 Thru	4500-5500	2.08
BF 20	2003 Thru	5000-6000	2.08
BF 25	1994 Thru	5000-6000	2.08
BF 30	1995-1999	5500-6000	2.08
BF 30	2000-2005	5700-6200	2.08
BF 30	2006 Thru	5000-6000	2.08
BF 35	1991-1994	4600-5600	2.09
BF 40	1995 Thru	5000-6000	2.09
BF 45	1991-1994	5000-6000	2.09
BF 50 / 50A	1995 Thru	5500-6000	2.09
BF 60	2010 Thru	5000-6000	2.07
BFP 60	2010 Thru	5000-6000	2.33
BF 75	1995 Thru	5000-6000	2.33
BF 90	1995-2002	5000-6000	2.33
BF 90	2003-2006	5000-6000	2.30
BF 90	2007 Thru	5300-6300	2.33
BF 115	1998-2010	5000-6000	2.00
BF 115	2011 Thru	4500-6000	2.14
BF 130	1998-2004	5000-6000	2.00
BF 135	2004 Thru	5000-6000	2.14
BF 150	2004 Thru	5000-6000	2.14
BF 200	2002 Thru	5000-6000	1.86
BF 225	2002 Thru	5000-6000	1.86
BF 250	2012 Thru	5300-6300	2.00

SUZUKI® RPM CHART

HP/Model	Years	WOT RPM	Gear Ratio
DF 9.9	1997-2000	4500-5500	1.92
DF 9.9	2001-2008	5400-6000	1.92
DF 9.9	2009	4900-5500	2.08
DF 9.9	2010 Thru	5200-6200	2.08
DF 15	1997-2001	5400-6000	1.92
DF 25	2000-2006	4700-5300	2.27
DF 25	2007-2008	4500-5500	2.09
DF 25	2009 Thru	4700-5300	2.09
DF 25A	2014 Thru	5000-6000	2.09
DF 30	2000-2007	5500-6100	2.27
DF 30A	2014 Thru	5300-6300	2.09
DF 40	1999-2009	5200-5800	2.27
DF 40A	2010 Thru	5000-6000	2.27
DF 50	1999-2009	5000-6500	2.27
DF 50A	2010 Thru	5300-6300	2.27
DF 60	1998-2009	4700-5300	2.42
DF 60A	2010 Thru	5300-6300	2.27
DF 70	1998-2008	5200-5800	2.42
DF 70A	2009 Thru	5000-6000	2.59
DF 80A	2009 Thru	5000-6000	2.59
DT 85	1991-2000	5000-5600	2.08
DF 90	2001-2008	4500-5500	2.59
DF 90A	2009 Thru	5300-6300	2.59
DT 100	1991-2000	5250-5750	2.08
DF 115	2001-2012	5000-6000	2.59
DF 115A	2013 Thru	5000-6000	2.59
DF 140	2002-2012	5600-6200	2.59
DF 140A	2013 Thru	5600-6200	2.59
DT 150 EFI	1995-2003	4500-5500	1.86
DF 150	2006 Thru	5000-6000	2.50
DF 175	2006 Thru	5500-6100	2.50
DF 175TG	2014 Thru	5500-6100	2.50
DF 200	2004 Thru	5000-6000	2.29
DF 225	2004 Thru	5000-6000	2.29
DF 250	2004 Thru	5500-6100	2.29
DF 250AP	2014 Thru	5500-6100	2.08
DF 300	2007-2011	5700-6300	2.08
DF 300A	2012 Thru	5700-6300	2.08
DF 300AP	2014 Thru	5700-6300	2.08

VOLVO® RPM CHART

HP/Model	Years	WOT RPM	Gear Ratio
3.0L GL	1994	4200-4600	1.85
3.0L GS	1994 Thru	4200-4600	1.97 / 2.18
3.0L GXi	2010	4400-4800	-
4.3L GL	1994 Thru	4200-4600	-
4.3L GS	1994-1999	4400-4800	-
4.3L Gi	1996-2002	4400-4800	-
4.3L GXi	2002 Thru	4400-4800	-
5.0L FL	1994 Thru	4200-4600	1.66
5.0L Fi	1994 Thru	4200-4600	1.66
5.0L GL	1998 Thru	4400-4800	1.51 / 1.60
5.0L Gi	1998-1999	4400-4800	1.51 / 1.60
5.0L Gi	2000-2002	4600-5000	1.51 / 1.60
5.0L GXi	2002 Thru	4600-5000	1.51 / 1.60
5.7L GL	1994-1996	4200-4600	1.60
5.7L GLi	1997 Thru	4200-4600	1.60
5.7L Gi	1996-1997	4200-4600	1.51
5.7L Gi	2002 Thru	4600-5000	1.43
5.7L GS	1997	4200-4600	1.51
5.7L GS	1998 Thru	4400-4800	1.51 / 1.43
5.7L GSi	1997 Thru	4600-5000	1.43
5.7L GXi	2001 Thru	4600-5000	1.43
5.8L FL	1994-1997	4000-4400	1.51
5.8L FSi	1995	4600-5000	1.43
5.8L FSi	1996-1997	4200-4600	1.51
7.4L GL	1997	4200-4600	1.43
7.4L Gi	1997-2001	4200-4600	1.43
7.4L GSi	1997	4800-5200	1.43
8.2L GSi	1997	4600-5000	1.43

Under no circumstances should you ever use a propeller which will allow your engine to operate outside the manufacturer's RPM range.

Please consult engine owner's manual or your local dealer to confirm RPM specifications.

ENGINE YEAR IDENTIFICATION

How can I determine the model year of my engine?

If you are unsure about the model year of your outboard, the serial number may provide insight. A number of manufacturers indicate the model year of the engine using serial number codes. Use the guide below to help identify the model year of your engine.

HONDA® 1997 & NEWER										
<i>Alpha-numeric year designation listed after the HP.</i>										
DK AK	D6 A6	D5 A5	D4 A4	D3 A3	D2 A2	D1 A1	DY AY	DX AX	DW AW	DM DT AM AT
2007 & Newer	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997
Examples: • BF2D1SCHA indicates 2001 (2 HP) • BFP5DXLHSA indicates 1999 (5 HP) • BF25A3LRTA indicates 2003 (25 HP)										

YAMAHA® 1984-2004										
<i>Last letter indicates model year.</i>										
N	K	J	H	G	F	D	P	Q	R	S
1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
T	U	V	W	X	Y	Z	A	B	C	
1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
Examples: • SX150TLRY1 indicates 2000										

• Starting in 2005, Yamaha stopped including year information in model numbers. Production date can be found on the starboard side of the outboard mounting bracket. (i.e. 06/09)

SUZUKI® 1983-2004										
<i>Last letter indicates the year.</i>										
D	E	F	G	H	J	K	L	M	N	P
1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
R	S	T	V	W	X	Y	K1	K2	K3	K4
1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Examples: • DT40CRSN indicates 1992										

There is nothing in Mercury, Mariner, Force, Chrysler, or U.S. Marine engine model numbers providing model year information. Please contact your OEM dealer for assistance in identifying the model year of your engine.

EVINRUDE®/JOHNSON® 1980-2012										
<i>2 letter code is found at the end of the model number.</i>										
I	N	T	R	O	D	U	C	E	S	
1	2	3	4	5	6	7	8	9	0	
Examples: • 100STLCE indicates 1989 • BE175FCX4SO indicates 2005 • VE70TLED indicates 1996										

• Letter code does not apply to commercial engines.
 • In 2012, BRP eliminated traditional model-year designations. The date of manufacture will be referenced on the serial number label on each outboard engine.

EVINRUDE® OUTBOARD ENGINE EXAMPLE	
MODEL/MODELE:	E50DPLAAA
SERIAL/SERIE:	05342429
	06/2012

JOHNSON® 1969-1979
<i>Model year is listed in the model number.</i>
The actual year is found in the model number, not the serial number.
Examples: • 150TXL78 indicates 1978 (150 HP) • 65ESLR72 indicates 1972 (65 HP)



BASIC TROUBLESHOOTING

• When installing an XHS / XHS II Hub System:

1. Confirm that the propeller is meant for use with your engine application (Figure 4).
2. Gearcase adapter rings are required for ALL VORTEX® “E” Series propellers. Gearcase adapter rings are supplied with every V4 VORTEX® and APOLLO® propeller, and may or may not be required (Figure 1 - 3).

Boat Description/Length	VORTEX®					Apollo®					Drop-In Hub Use XHS II® Hub Kit 209 Refer to Page 41-43 for Details on Hub Kit Component.	
	Dis.	Rot.	Pitch	Blid #	OEM Part #	Part #	Dis.	Rot.	Pitch	Blid #		OEM Part #
CR, HB	14	R	11	3		992209						
22'-25"-AL, SK	13-14	R	13	3	3N48645271	992212						
19'-22"-AL, SK	13-12	R	15	3	3N48645321	992213	13-15	R	15	3	P27013P15	993143
19'-22"-AL, SK							13-15	L	15	3		993153
18'-21"-AL, SK	13-14	R	17	3	3N48645361	992214	13-14	R	17	3	NM58961070	993144
18'-21"-AL, SK							13-14	L	17	3		993154
17'-20"-AL, SK	13	R	19	3	3N48645411	992215	13-19	R	19	3		993145
17'-20"-AL, SK							13-19	L	19	3		993155
15'-18"-AL, SK	13	R	21	3	3N48645451	992216	13	R	21	3		993146
15'-18"-AL, SK							13	L	21	3		993156

25-30 HORSEPOWER (4-STROKE) • 3" GEARCASE		30 HP 4-Stroke		2004-2007		
Thru Hub Exhaust & 10 Tooth Spline						
25 HP 4-Stroke						
30 HP 4-Stroke						
2004-2007						
Boat Description/Length	VORTEX®					Drop-In Hub Use XHS® Hub Kit 121 Refer to Page 41-43 for Details on Hub Kit Component.
	Dis.	Rot.	Pitch	Blid #	OEM Part #	
20' & Up -AL	10-12	R	9	3	992581	
17'-20" -AL	10-12	R	10	3	992582	
17'-20" -AL	10-12	R	11	3	992583	
15'-18" -AL	10-18	R	12	3	992584	
15'-18" -AL	10-18	R	13	3	992585	
Up to 15" -LL	10-18	R	14	3	992586	

Fig. 1 (Above) All Vortex “E” Series Propellers are shipped with a set of (3) gearcase adapter rings, and requires use of appropriate ring - indicated on the tabs.



Fig. 2 All Vortex and Apollo “B” Series (V4) Propellers are shipped with (1) gearcase adapter ring. Some engines require use of this gearcase adapter ring (Top Left), others do not (Bottom Left).



Fig. 3 Failure to install gearcase adapter ring leaves gap that causes excessive ventilation, poor performance.

3. Confirm the correct XHS® / XHS II® Hub Kit has been selected for your engine.
4. All OEM attachment hardware must be removed prior to installation of XHS® / XHS II® Hub Kits. The shaft taper must be visible (Figure 5). If the propeller shaft taper is not visible, the OEM forward thrust washer is likely still installed (Figure 6).
5. The forward thrust washer is tapered and will nest with the taper on the propeller shaft with little effort (Figure 7).
6. Each additional XHS® / XHS II® Hub Kit component is designed to be installed in a specific order. Refer to XHS® Installation Instructions (Form 990445) for correct order (Figure 8).
7. Verify all hardware components packaged with your XHS® / XHS II® Hub Kit have been used. Component part numbers can be found on Pg. 42 & 43.
8. Ensure your propeller nut is torqued to the manufacturer’s recommended value identified in your engine owner’s manual.



Fig. 4 Vortex “C” Series (3-3/8”) Propeller installed on a V4 (4-1/4”) gearcase. Results in poor performance and excessive ventilation. Vortex “B” Series (4-1/4”) Propeller should be used.



Fig. 5 Propeller shaft taper is visible, indicating OEM forward thrust washer has been removed. XHS Hub Kit forward thrust washer ready to be installed.



Fig. 6 OEM forward thrust washer was not removed. XHS Hub Kit and Michigan Wheel propeller will not fit properly.



Fig. 7 The forward thrust washer is tapered and will nest with the taper on the propeller shaft. When properly installed, the part number will be visible.

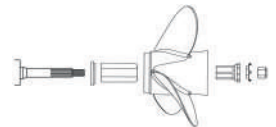


Fig. 8 The forward thrust washer MUST be installed first. Failure to install a forward thrust washer will cause gearcase damage and potential injury.

• Other Common Installation Mistakes:



Over time, the forward thrust washer may appear as part of the propeller shaft. It is still necessary to remove the thrust washer when installing an XHS propeller.



The gearcase adapter ring will snap into place, and lay flush with the propeller. If there is a gap, it is not properly installed.



Aft drive adapter incorrectly installed. The propeller will fall off the propeller shaft if run with this incorrect installation.



The shaft taper takes forward thrust from the thrust washer. Without a forward thrust washer, the gearcase takes the forward thrust as the propeller will continue to move forward on the shaft, causing severe damage to the gearcase.



Please, don't ever do this.

• When installing a rubber hub propeller:

1. Determine if this is a “drop-in hub” to Michigan Match® installation. If yes, follow the replacement instructions on Page. 24.
2. If this is an OEM to Michigan Match® installation, make sure all hardware components are available. Confirm that the forward thrust washer is not stuck in the old propeller.
3. Michigan Match® is an OEM-equivalent propeller. If the correct OEM propeller and attachment hardware was being used, the Michigan Match® equivalent will fit without issue.

2015 MICHIGAN PROPELLERS



APOLLO® STANDARD 3-BLADE

Apollo® propellers are highly polished, ultimate performance, stainless steel wheels. Apollo® is designed to use Michigan Wheel's XHS® / XHS II® hub system, and is interchangeable with Mercury's Flo-Torq® II hub system.

- 30-70 HP (12" - 15" pitch; RH rotation)
- V4 Outboard (15" - 21" pitch; RH & LH rotation)
- V6/V8 OBSD (15" - 23" pitch; RH & LH rotation)

Recommended Boat Applications: Inflatables, Aluminum Consoles, Bass Boats, Flats Boats, Sport Boat Singles, Sport Boat Duals

APOLLO® LARGE DIAMETER 3-BLADE

The Apollo® 3-Blade Large Diameter propeller is great for heavier applications that require increased blade area. Common to the entire Apollo® line, the Apollo® Large Diameter 3-Blade features CAD designed high performance blade geometry.

- V6/V8 OBSD (17" - 23" pitch; RH & LH rotation)

Recommended Boat Applications: Bay Boats, Offshore Singles & Duals, Sport Boat Singles & Duals, Pontoons, Family Cruisers, Workboats, Houseboats

APOLLO® 4-BLADE

The Apollo® 4-Blade propeller is designed to improve hole shot on heavier loads. This propeller is ideal for pulling/towing in water sports. High performance blade geometry, high luster finish, utilization of the XHS® / XHS II® hub kit, and interchangeability with Mercury's Flo-Torq® II hub system makes the Apollo® 4-Blade the perfect propeller for a wide range of boats.

- V6/V8 OBSD (16" - 22" pitch; RH & LH rotation)

Recommended Boat Applications: Aluminum Consoles, Bay Boats, Walleye Boats, Offshore Singles & Duals, Sportboat Singles & Duals, Skiboats



BALLISTIC®

High performance stainless steel propellers with the proven Power Tip for peak efficiency, now utilizing Michigan Wheel's XHS® / XHS II® hub system. The 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 minimize drag
- Performance characteristics of racing style propellers
- Maintains optimum blade strength and thickness
- Ideal for the performance-minded boater
- Available in stainless steel, RH & LH rotation

Recommended Boat Applications: Bass Boats, Bay Boats, Flats Boats, Sport Boat Single, Sport Boat Dual, Skiboats

2015 MICHIGAN PROPELLERS



VORTEX® 3-BLADE

High performance aluminum propeller utilizing the XHS® / XHS II® Xchangeable Hub System. Featuring high performance blade geometry, precision balanced blades, high gloss powder coat and interchangeability with the Mercury Flo-Torq® II system, the Vortex® XHS® / XHS II® is a great choice for a replacement or spare propeller for boaters.

- **20-70 HP (9" - 17" pitch; RH rotation)**
- **V4 Outboard (10" - 21" pitch; RH rotation)**
- **V6/V8 OBSD (15" - 23" pitch; RH rotation)**

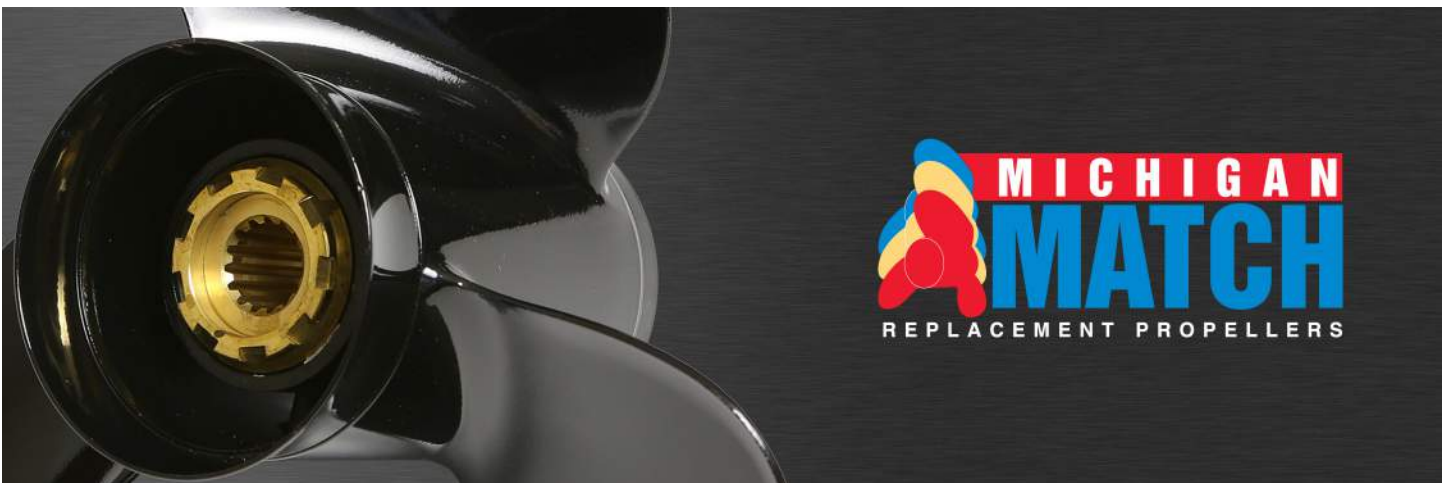
Recommended Boat Applications: Inflatables, Aluminum Consoles, Walleye Boats, Offshore Singles, Pontoons, Skiboats, Family Cruisers

VORTEX® 4-BLADE

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

- **20-70 HP (8"-10" pitch; RH rotation)**
- **V4 Outboard (11" - 19" pitch; RH rotation)**
- **V6/V8 OBSD (16", 18", 20" pitch; RH rotation)**

Recommended Boat Applications: Inflatables, Aluminum Consoles, Walleye Boats, Offshore Singles, Pontoons, Skiboats, Family Cruisers



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 engine manufacturer propeller you're replacing. Every Michigan Match® propeller features a NAVAL brass spindle with a 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 propeller, yet priced as a weekend-saver spare!

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

Recommended Boat Applications: Inflatables, Aluminum Consoles, Walleye Boats, Offshore Singles, Pontoons, Skiboats, Family Cruisers, Workboats, Houseboats

HOW TO USE APPLICATION CHART

- If the 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 B2-B33 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 engine using the table of contents.
2. Locate the **HORSEPOWER/MODEL** and **YEAR** that corresponds with the engine brand.
3. Find the range of your **BOAT LENGTH**, and the boat use that best describes your vessel and usage.
4. Select the propeller **DIAMETER/PITCH** that best meets your vessel and usage. Refer to pages A2-A6 for information on choosing the right propeller.
5. Order the propeller using the **MICHIGAN PART NUMBER**. (If aluminum is desired, read across to the correct column for the part number. If stainless steel is desired, read across to the correct column for part number.)
6. If **VORTEX**[®], **APOLLO**[®], or **BALLISTIC**[®] propellers are selected, the **XHS**[®] / **XHS II**[®] **HUB KIT** indicated must be ordered.
7. Carefully read ALL notes for additional important attachment information. (If specific to a propeller, it will be noted next to the part number.)

Unless otherwise noted: The XHS[®] / XHS II[®] hub kit is sold separately from the propeller. See pages 40-41 for XHS[®] / XHS II[®] hub kit and miscellaneous hardware information. Vortex[®] and Apollo[®] propellers fit existing Mercury Flo-Torq[®] II hubs. Check existing hub for wear or damage and replace if necessary with Michigan Wheel XHS[®] / XHS II[®] hub.

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

MERCURY[®], MARINER[®], SEA RAY OUTBOARDS





40-140 HORSEPOWER • 4-1/4" GEARCASE Thru Hub Exhaust & 15 Tooth Spline

40 & 50 HP 4-Stroke / Bigfoot	.....	All Years
60 HP 4-Stroke / Bigfoot	.....	1995 & Newer
60 HP (Sea Pro/Marathon)	.....	1995 & Newer
65 HP (Model 650 - 2 Cyl.)	.....	Thru 1971
65 HP (Model 650 - 4 Cyl.)	.....	1961-1970
70 HP	.....	1987-1989
75 HP (Sea Pro/Marathon)	.....	All Years
75 HP 2-Stroke	.....	1984-2005
75 HP 4-Stroke	.....	2001 & Newer

80 HP	.....	1978-1989
80 HP (Mariner [®])	1978-1983
80 HP (Model 800; 2 & 4 Cyl.)	.....	Thru 1977
80 HP (Yamaha [®])	1977-1983
85 HP (Model 850; 2 & 4 Cyl.)	.....	Thru 1977
90 HP (Yamaha [®])	1978-1983
90 HP 2-Stroke	.....	1978 & Newer
90 HP 4-Stroke	.....	2001 & Newer

100 HP	.....	1988 & Newer
115 HP (Yamaha [®])	1978-1983
115 HP	.....	1978 & Newer
115 HP 4-Stroke	.....	2001 & Newer
125 HP	.....	1994-2005
140 HP (Includes Sea Pro/Offshore)	.....	1978-1981
140 HP (Yamaha [®])	1978-1979
Models 900-1150-1500	.....	Thru 1977

Includes EFI engines.

																			
3-BLADE ALUMINUM					4-BLADE ALUMINUM					Drop-In Hub	STAINLESS STEEL PROPELLERS					Drop-In Hub			
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #	Use XHS Hub Kit	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	Use XHS Hub Kit		
14	R	11	3	992209	13-7/8	R	11	4	941411	202 USE Gearcase Adapter Ring supplied with propeller. Refer to Pages 47-48 for Details on Hub Kit Components.	13-3/8	R	15	3	993143	993143	202 USE Gearcase Adapter Ring supplied with propeller. Refer to Pages 47-48 for Details on Hub Kit Components.		
13-3/4	R	13	3	992212	13-7/8	R	13	4	941413		13-3/8	L	15	3	993153	993153			
13-1/2	R	15	3	992213	13-3/8	R	15	4	941415		13-1/4	R	17	3	993144	993144			
13-1/4	R	17	3	992214	13	R	17	4	941417		13-1/4	L	17	3	993154	993154			
13	R	19	3	992215	12-1/2	R	19	4	941419		13-1/8	R	19	3	993145	993145			
13	R	21	3	992216							13-1/8	L	19	3	993155	993155			
											13	R	21	3	993146	993146			
											13	L	21	3	993156	993156			
																			
Boat Description/Length	ALUMINUM PROPELLERS					Rubber Hub Bushing	STAINLESS STEEL PROPELLERS					Drop-In Hub							
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	Use	3-BLADE BALLISTIC			3-BLADE BALLISTIC XL			Use XHS Hub Kit					
19'-24' - AL, SK	13-1/2	R	15	3	48-77342A45	031141	MWM Fwd Washer 990332 or MWM Kit 9660-1 (Fwd Washer, Tab Washer, Propeller Nut)	Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #	202 USE Gearcase Adapter Ring supplied with propeller. Refer to Pages 47-48 for Details on Hub Kit Components.	
17'-20' - AL, SK	13-1/4	R	17	3	48-77344A45	031142		13-5/8	R	15	3	933415							
16'-18' - AL, SK	13	R	17	3	48-77346A45	031143		13-1/2	R	17	3	933417							
15'-18' - AL, SK	13	R	21	3	48-77348A45	031144		13-3/8	R	19	3	933419							
High Performance	12-1/2	R	23	3	48-77350A45	031045	See Page 24 for details.	13-1/8	R	21	3	933421							
High Performance													13-1/2	R	22	3	953422		953422
													13-1/2	R	24	3	953424	953424	

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

⊗ Limited Inventory Item.
 * To avoid damage or injury, replace standard trim tab with trim tab 822777A1.

⊗ Pontoon Boat Propeller (Extended Cup)

4-8 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

4 HP.....1980-1983	6 HP.....1986-2005	7.5 HP.....1980-1983
4, 5 HP Deluxe.....1986-1995	6 HP 4-Stroke.....1998-2003	8 HP.....1986-2005
5 HP 4-Stroke.....1999-2003		

ALUMINUM PROPELLERS						
Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
Standard Replacement	8-1/2	R	9	3	778797	012032



Rubber
Hub
Bushing

6-15 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

6 HP.....1966-1979	10 HP.....1958-1963	8-15 HP.....2000 & Newer
9.5 HP.....1964-1973	10, 12, 14 HP***.....1982-1994	

ALUMINUM PROPELLERS						
Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
14'-16' - AL	8-1/4	R	8	3	763588	012008
12'-14' - LL	8	R	7-1/4	2	763745	012005
12'-14' - LL	8-1/4	R	8-1/2	3	763586	012007



Rubber
Hub
Bushing

8, 9.9-15 HORSEPOWER • 2-1/2" GEARCASE

Thru Hub Exhaust & 13 Tooth Spline

8 HP 4-Stroke.....1996-2005	9.9 - 15 HP 2-Stroke.....1974-2005	9.9, 15 HP 4-Stroke.....1995-2001
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ALUMINUM PROPELLERS						
Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
14'-16' - AL	10	R	7	3	763456	012112
Standard Replacement	9-1/2	R	10	3	778772	012111



Rubber
Hub
Bushing

9.9-15 HORSEPOWER • JOHNSON • 2-1/2" GEARCASE

Thru Hub Exhaust & 10 Tooth Spline

9.9 HP 4-Stroke.....2002-2007	15 HP 4-Stroke.....2002-2007
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ALUMINUM PROPELLERS						
Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
14'-19' - AL	9-1/4	R	9	3	5005384	062103
14'-19' - AL	9-1/4	R	10	3	5005385	062104
14'-16' - LL	9-1/4	R	11	3	5033203	062105



Rubber
Hub
Bushing

9.8 HORSEPOWER

Thru Hub Exhaust & 12 Tooth Spline

9.8 HP 4-Stroke.....2012 & Newer

ALUMINUM PROPELLERS						
Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
	8-1/2	R	7	3	5040538	142102
	8-1/2	R	8	3		142103




Rubber
Hub
Bushing

*** Engines offered in European Market only.

15 HORSEPOWER

Thru Hub Exhaust & 14 Tooth Spline

15 HP 4-Stroke 2012 & Newer

Boat Description/ Length						
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
14'-19' - AL	9-1/4	R	8	3		142203
Standard Replacement	9-1/4	R	9	3	5040590	*142204
Standard Replacement	9-1/4	R	10	3	5040591	*142205
14'-16' - LL	9-1/4	R	11	3	5040592	142206



142206

Rubber
Hub
Bushing

* Standard replacement for 20" & 25" shafts is 142204. Standard replacement for 15" shaft is 142205.


10-28 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

10 HP 1951-1957
15 HP 1953-1956

18 HP 1957-1973
20 HP 1969-1973

25 HP 1969-1977
28 HP 1964

Boat Description/ Length						
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
CR, HB, SB	9-1/4	R	7	3	388294	012102
14'-16' - HL	9	R	9	3	763587	012109
12'-14' - LL	9	R	10	3	763583	012011
12'-14' - LL	9-1/4	R	11	3		012013



012011

Rubber
Hub
Bushing


14-28 HORSEPOWER

Non-Thru Hub Exhaust & 13 Tooth Spline

14 HP 1988-1989
25 HP 1978-1984

25 HP** 1978-1991; 1994 & Newer

28 HP 1986-1996

Boat Description/ Length						
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
16'-18' - HL	9	R	9	3	763585	012021
15'-17' - AL	9	R	10	3	763589	012015
14'-17' - AL	9-1/4	R	11	3	763584	012016
14'-17' - LL	9-1/4	R	12	3	763590	012030



012015

Rubber
Hub
Bushing


25-40 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

25 HP 1951-1955
28 HP 1962-1964
30 HP 1956

33 HP 1965-1970
35 HP 1957-1959

40 HP 1960-1976
40 HP** 1978-1985

Boat Description/ Length						
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
17'-19' - AL, SK	10-3/8	R	11-1/2	3		012023
14'-16' - AL, SK	10-1/2	R	12	3		012024










012023

Rubber
Hub
Bushing

25-30 HORSEPOWER (4-STROKE) • 3" GEARCASE

Thru Hub Exhaust & 10 Tooth Spline • **!** MUST use Gearcase Adapter Ring supplied with propeller.







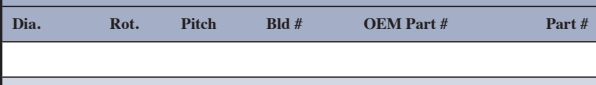
25 HP 4-Stroke2004-2007 30 HP 4-Stroke 2004-2007

Boat Description/ Length	 ALUMINUM PROPELLERS						Drop-In Hub Use XHS® Hub Kit 121 ! MUST USE GEARCASE ADAPTER RING SUPPLIED WITH PROPELLER.	 991244 Gearcase Adapter Rings 992504 Vortex® XHS® Aluminum Propeller
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
20' & Up - AL	10-1/2	R	9	3		992501	 ALUMINUM PROPELLERS	 STAINLESS STEEL PROPELLERS
17'-20' - AL	10-1/2	R	10	3		992502		
17'-20' - AL	10-1/2	R	11	3		992503		
15'-18' - AL	10-1/8	R	12	3		992504		
13'-15' - AL	10-1/8	R	13	3		992505		
Up to 15' - LL	10-1/8	R	14	3		992506		
Boat Description/ Length	 ALUMINUM PROPELLERS						Rubber Hub Bushing	 STAINLESS STEEL PROPELLERS
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
17'-20' - AL	10-1/4	R	10	3		062204	 STAINLESS STEEL PROPELLERS	
17'-20' - AL	10-1/4	R	11	3	58100-96420-019	062205		
15'-18' - AL	10-1/4	R	12	3	58100-96480-019	062206		
13'-15' - AL	10-1/4	R	13	3	58100-96490-019	062207		
Up to 15' - LL								
							* May interfere with trim tab.	

15-35 HORSEPOWER • 3" GEARCASE

Thru Hub Exhaust & 14 Tooth Spline • **!** MUST use Gearcase Adapter Ring supplied with propeller. • VORTEX® PROPELLER MAY INTERFERE WITH SKEG ON ANY MODEL

15 HP E-TEC® H.O.2011 & Newer 25 HP 2 & 3 Cyl.1984 & Newer 30 HP E-TEC®2009 & Newer
 20 HP 2 Cyl.1984-1997 25 HP E-TEC®2009 & Newer 35 HP 2 Cyl 1979-1983
 25 HP (Commercial)1993-2005 30 HP 2 Cyl.1984 & Newer 35 HP 3 Cyl 1997-2001

Boat Description/ Length	 ALUMINUM PROPELLERS						Drop-In Hub Use XHS® Hub Kit 118 ! MUST USE GEARCASE ADAPTER RING SUPPLIED WITH PROPELLER.	 991244 Gearcase Adapter Rings 992504 Vortex® XHS® Aluminum Propeller
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
17'-20' - AL, SK	10-1/2	R	9	3		992501	 ALUMINUM PROPELLERS	 STAINLESS STEEL PROPELLERS
17'-20' - AL, SK	10-1/2	R	10	3		992502		
16'-18' - AL, SK	10-1/2	R	11	3	765049	992503		
16'-18' - AL, SK	10-1/8	R	12	3		992504		
15'-17' - AL, SK	10-1/8	R	13	3	778863	992505		
13'-15' - AL, SK	10-1/8	R	14	3		992506		
Boat Description/ Length	 ALUMINUM PROPELLERS						Rubber Hub Bushing	 STAINLESS STEEL PROPELLERS
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
17'-20' - AL, SK	11	R	9	3	765048	012054	 STAINLESS STEEL PROPELLERS	
16'-18' - AL, SK	10-1/2	R	11	3	765049	012055		
15'-17' - AL, SK	10	R	13	3	778863	012056		
13'-15' - AL, SK	10	R	15	3	763486	012057		
							* May interfere with trim tab.	

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





Ⓢ Limited Inventory Item.

** Commercial & Workhorse Application.

40-50 HORSEPOWER • JOHNSON • 3-1/4" GEARCASE

Thru Hub Exhaust & 13 Tooth Spline





40 HP 4-Stroke1999-2005 50 HP 4-Stroke 1999-2005

																					
ALUMINUM PROPELLERS										STAINLESS STEEL PROPELLERS											
3-BLADE				LG. DIAMETER 3-BLADE				4-BLADE				Drop-In Hub									
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	Drop-In Hub			
								11-1/2	R	8	992401								Use XHS® Hub Kit 115		
				12-1/4	R	9	992601	11-1/2	R	9	992402								Refer to Pages 47-48 for Details on Hub Kit Components.		
				11-3/4	R	10	992602	11-1/2	R	10	992403								Refer to Pages 47-48 for Details on Hub Kit Components.		
10-3/8	R	11	992404	11-5/8	R	11	992603												Refer to Pages 47-48 for Details on Hub Kit Components.		
10-3/8	R	12	992405	11-3/8	R	12	992604					10-3/4	R	12	3		993405		Refer to Pages 47-48 for Details on Hub Kit Components.		
10-3/8	R	13	992406	11-1/8	R	13	992605					10-1/2	R	13	3	777021	993406		Refer to Pages 47-48 for Details on Hub Kit Components.		
10-3/8	R	14	992407	11-1/4	R	14	992606					10-3/8	R	14	3	777022	993407		Refer to Pages 47-48 for Details on Hub Kit Components.		
10	R	15	992408									10-1/8	R	15	3	777023	993408		Refer to Pages 47-48 for Details on Hub Kit Components.		
10	R	16	992409																Refer to Pages 47-48 for Details on Hub Kit Components.		
																					
ALUMINUM PROPELLERS										STAINLESS STEEL PROPELLERS											
Boat Description/Length		Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	Drop-In Hub													
18'-21' - AL		12-1/4	R	9	3	776807	032046	Use XHS® Hub Kit 115													
18'-21' - AL		11-3/4	R	10	3	778606	032045	Refer to Pages 47-48 for Details on Hub Kit Components.													
17'-19' - AL		11-5/8	R	11	3	778607	032044	Refer to Pages 47-48 for Details on Hub Kit Components.													
15'-17' - LL		11-3/8	R	12	3	778608	032043	Refer to Pages 47-48 for Details on Hub Kit Components.													
14'-16' - LL		11-1/8	R	13	3	778609	032042	Refer to Pages 47-48 for Details on Hub Kit Components.													
12'-14' - LL		11-1/4	R	14	3	778610	032041	Refer to Pages 47-48 for Details on Hub Kit Components.													
12'-14' - LL		11	R	15	3		032040	10-1/8	R	13	3		933213	Refer to Pages 47-48 for Details on Hub Kit Components.							
								10-1/8	R	15	3		933215	Refer to Pages 47-48 for Details on Hub Kit Components.							

40-75 HORSEPOWER • SMALL (3-3/8") GEARCASE

Thru Hub Exhaust & 13 Tooth Spline

40 HP 2 Cyl.....1984-2005 55 HP..... 1976-1979 75 HP 3 Cyl..... 1975-1985
 48 HP.....1987-1996 65 HP 2 Cyl..... 1980-1985 Sprint/Formula E 1986-1992
 50 HP 2 Cyl.....1975-2005

																					
ALUMINUM PROPELLERS										STAINLESS STEEL PROPELLERS											
3-BLADE				LG. DIAMETER 3-BLADE				4-BLADE				Drop-In Hub									
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	Drop-In Hub			
								11-1/2	R	8	992401								Use XHS® Hub Kit 111		
								11-1/2	R	9	992402								Refer to Pages 47-48 for Details on Hub Kit Components.		
								11-1/2	R	10	992403								Refer to Pages 47-48 for Details on Hub Kit Components.		
11-3/4	R	13	992301	12-1/2	R	13	992311												Refer to Pages 47-48 for Details on Hub Kit Components.		
11-3/4	R	15	992302	12-1/4	R	15	992312												Refer to Pages 47-48 for Details on Hub Kit Components.		
11-3/4	R	17	992303																Refer to Pages 47-48 for Details on Hub Kit Components.		
																					
ALUMINUM PROPELLERS										STAINLESS STEEL PROPELLERS											
Boat Description/Length		Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	Drop-In Hub													
CR, HB		13	R	11	3	763488	012036	Use XHS® Hub Kit 111													
15'-18' - AL, SK		12-1/2	R	13	3	763461	012037	Refer to Pages 47-48 for Details on Hub Kit Components.													
14'-17' - AL, SK		12-1/4	R	15	3	778774	011027	Refer to Pages 47-48 for Details on Hub Kit Components.													
13'-15' - LL		11-3/4	R	17	3		012039	12-3/8	R	15	3		933315	Refer to Pages 47-48 for Details on Hub Kit Components.							
13'-15' - LL		11-3/4	R	17	3	763462	011028	12	R	17	3		933317	Refer to Pages 47-48 for Details on Hub Kit Components.							



992303
Vortex® XHS®
Aluminum Propeller



992402
Vortex® XHS®
Aluminum Propeller

Ⓢ Limited Inventory Item.



40-75 HORSEPOWER • LARGE (4-1/4") GEARCASE

Thru Hub Exhaust & 13 Tooth Spline

40 HP E-TEC®	.....2004 & Newer
45 HP 2 Cyl. Commercial	.....1986-1995
50 HP E-TEC®	.....2004 & Newer
50 HP 2 Cyl. Commercial	.....1977-1979
50 HP 2 Cyl. Pleasure	.....1971-1974
50 HP 3 Cyl. Pleasure	.....1994-1998
55 HP 3 Cyl.	.....1968-1969

55 HP 2 Cyl. Commercial	.....1980 & Newer
55 HP E-TEC®	.....2009 & Newer
60 HP 3 Cyl. Pleasure	.....1970-1971; 1986-2001
60 HP E-TEC®	.....2004 & Newer
60 HP 4-Stroke	.....1998 & Newer
65 HP 3 Cyl. Pleasure	.....1972-1973
65 HP 3 Cyl. Commercial	.....1984-2001

65 HP Pontoon Series	.....2014 & Newer
70 HP 3 Cyl. Pleasure	.....1974 & Newer
70 HP 3 Cyl. Commercial	.....1974-2001
70 HP 4-Stroke	.....1998 & Newer
75 HP 3 Cyl. Pleasure	.....1975-1984
75 HP E-TEC®	.....2004 & Newer


									
3-BLADE ALUMINUM					4-BLADE ALUMINUM				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14	R	11	3	992209	13-7/8	R	11	4	941411
13-3/4	R	13	3	992212	13-7/8	R	13	4	941413
13-1/2	R	15	3	992213	13-3/8	R	15	4	941415
13-1/4	R	17	3	992214	13	R	17	4	941417
13	R	19	3	992215	12-1/2	R	19	4	941419
13	R	21	3	992216					

Drop-In Hub

Use XHS II® Hub Kit **206 / 210**

Do NOT use Gearcase Adapter Ring supplied with propeller.

Refer to Pages 47-48 for Details on Hub Kit Components.


					
STAINLESS STEEL PROPELLERS					
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
13-3/8	R	15	3	763950	993143
13-3/8	L	15	3		993153
13-1/4	R	17	3	763951	993144
13-1/4	L	17	3		993154
13-1/8	R	19	3	763952	993145
13-1/8	L	19	3		993155
13	R	21	3		993146
13	L	21	3		993156

Drop-In Hub


Use XHS II® Hub Kit **206 / 210**

Do NOT use Gearcase Adapter Ring supplied with propeller.

Refer to Pages 47-48 for Details on Hub Kit Components.

Boat Description/ Length						
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
CR, HB	14	R	11	3	763301	012147
19'-22' - AL, SK	13-3/4	R	13	3	763302	011101
17'-19' - AL, SK	13-1/2	R	15	3	763466	011102
15'-17' - AL, SK	13-1/4	R	17	3	763463	011103
15'-17' - AL, SK	14	R	17	3	176214	* 011024
14'-16' - AL, SK	13	R	19	3	763464	011104
14'-16' - AL, SK	14	R	19	3	176215	* 011025
13'-15' - AL, SK	13	R	21	3	763465	011105

Rubber Hub Bushing

					
STAINLESS STEEL PROPELLERS					
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
13-5/8	R	15	3		933415
13-1/2	R	17	3		933417
13-3/8	R	19	3		933419
13-1/8	R	21	3		933421

Drop-In Hub

Use XHS II® Hub Kit **206 / 210**

Do NOT use Gearcase Adapter Ring supplied with propeller.

Refer to Pages 47-48 for Details on Hub Kit Components.

Note: For 60 HP & 70 HP 4-Stroke engine applications, 1998 & Newer, use XHS II® (Drop-In Hub) Kit # 210. For all other engine applications use XHS II® (Drop-In Hub) Kit # 206.



Michigan Wheel's Vortex V4 4-Blade propellers feature a blade design engineered to enhance hole shot and increase cruise speed, without sacrificing top-end speed. Sizes available specific for the demands of both standard hull designs as well as pontoon boats.



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

85-140 HORSEPOWER • V-4 (4-1/4") GEARCASE

Thru Hub Exhaust & 13 Tooth Spline

85 HP.....	1969-1980; 1991-1995	100 HP.....	1979-1980; 1989-1993	120 HP.....	1986-1994
88 HP.....	1981-1996	110 HP.....	1986-1989	125 HP.....	1971-1972
90 HP.....	1981 & Newer	112 HP.....	1994-1996	130 HP E-TEC® (20" Shaft Length).....	2004-2010
90 HP E-TEC® (20" Shaft Length).....	2004 & Newer	115 HP.....	1973 & Newer	135 HP.....	1973-1976
90 HP Pontoon Series.....	2014 & Newer	115 HP E-TEC® (20" Shaft Length).....	2004 & Newer	140 HP.....	1977-1994

EVINRUDE / JOHNSON



3-BLADE ALUMINUM					4-BLADE ALUMINUM				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14	R	11	3	992209	13-7/8	R	11	4	941411
13-3/4	R	13	3	992212	13-7/8	R	13	4	941413
13-1/2	R	15	3	992213	13-3/8	R	15	4	941415
13-1/4	R	17	3	992214	13	R	17	4	941417
13	R	19	3	992215	12-1/2	R	19	4	941419
13	R	21	3	992216					

Drop-In Hub

Use XHS II® Hub Kit

206

Do NOT use Gearcase Adapter Ring supplied with propeller.

Refer to Pages 47-48 for Details on Hub Kit Components.

STAINLESS STEEL PROPELLERS					
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
13-3/8	R	15	3	763950	993143
13-3/8	L	15	3		993153
13-1/4	R	17	3	763951	993144
13-1/4	L	17	3		993154
13-1/8	R	19	3	763952	993145
13-1/8	L	19	3		993155
13	R	21	3		993146
13	L	21	3		993156

Drop-In Hub

Use XHS II® Hub Kit

206

Do NOT use Gearcase Adapter Ring supplied with propeller.

Refer to Pages 47-48 for Details on Hub Kit Components.



Boat Description/Length

Boat Description/Length	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
CR, HB	14	R	11	3	763301	012147
CR, HB	13-3/4	R	13	3	763302	011101
20'-24' - AL, SK	13-1/2	R	15	3	763466	011102
19'-22' - AL, SK	13-1/4	R	17	3	763463	011103
19'-22' - AL, SK	14	R	17	3	176214	011024
17'-19' - AL, SK	13	R	19	3	763464	011104
17'-19' - AL, SK	14	R	19	3	176215	011025
15'-18' - AL, SK	13	R	21	3	763465	011105
High Performance						
High Performance						

Rubber Hub Bushing

3-BLADE BALLISTIC XHS						3-BLADE BALLISTIC XHS XL					
Dia.	Rot.	Pitch	Bld #	Part #		Dia.	Rot.	Pitch	Bld #	Part #	
13-5/8	R	15	3	933415							
13-1/2	R	17	3	933417							
13-3/8	R	19	3	933419							
13-1/8	R	21	3	933421							
						13-1/2	R	22	3	953422	
						13-1/2	R	24	3	953424	

Drop-In Hub

Use XHS II® Hub Kit

206

Do NOT use Gearcase Adapter Ring supplied with propeller.

Refer to Pages 47-48 for Details on Hub Kit Components.



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



90, 115 & 140 HORSEPOWER • JOHNSON • 4-1/4" GEARCASE



Thru Hub Exhaust & 15 Tooth Spline

90 HP 4-Stroke2002-2005

115 HP 4-Stroke 2002-2005

140 HP 4-Stroke 2002-2005

										Drop-In Hub Use XHS II® Hub Kit 225 / 226 USE Gearcase Adapter Ring supplied with propeller. Refer to Pages 47-48 for Details on Hub Kit Components.							Drop-In Hub Use XHS II® Hub Kit 225 / 226 USE Gearcase Adapter Ring supplied with propeller. Refer to Pages 47-48 for Details on Hub Kit Components.
3-BLADE ALUMINUM					4-BLADE ALUMINUM						STAINLESS STEEL PROPELLERS						
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #		Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	
14	R	11	3	992209	13-7/8	R	11	4	941411								
13-3/4	R	13	3	992212	13-7/8	R	13	4	941413								
13-1/2	R	15	3	992213	13-3/8	R	15	4	941415		13-3/8	R	15	3	763950	993143	
											13-3/8	L	15	3		993153	
13-1/4	R	17	3	992214	13	R	17	4	941417		13-1/4	R	17	3	793951	993144	
											13-1/4	L	17	3		993154	
13	R	19	3	992215	12-1/2	R	19	4	941419		13-1/8	R	19	3	763952	993145	
										13-1/8	L	19	3		993155		
13	R	21	3	992216						13	R	21	3		993146		
										13	L	21	3		993156		

Boat Description/Length							Rubber Hub Bushing							Drop-In Hub Use XHS II® Hub Kit 225 / 226 USE Gearcase Adapter Ring supplied with propeller.			
	ALUMINUM PROPELLERS							STAINLESS STEEL PROPELLERS									
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		3-BLADE BALLISTIC			3-BLADE BALLISTIC XL						
20'-24' - AL, SK	14	R	15	3	58100-90J41-019	061020		13-5/8	R	15	3	933415					
17'-19' - AL, SK	14	R	17	3	58100-90J01-019	061024		13-1/2	R	17	3	933417					
16'-18' - AL, SK	14	R	19	3	58100-90J11-019	061028		13-3/8	R	19	3	933419					
15'-18' - AL, SK	14	R	21	3	58100-90J21-019	061032		13-1/8	R	21	3	933421	13-1/2	R	22	3	953422
								13-1/2	R	24	3	953424					

Note: For 90 HP & 115 HP 4-Stroke engine applications use XHS II® (Drop-In Hub) Kit # 225.
 For 140 HP 4-Stroke engine applications use XHS II® (Drop-In Hub) Kit # 226.



200 & 225 HORSEPOWER • JOHNSON • 4-3/4" GEARCASE

Thru Hub Exhaust & 15 Tooth Spline • VORTEX® AND APOLLO® PROPELLER DIAMETERS ARE SLIGHTLY LESS THAN ORIGINAL EQUIPMENT PROPELLERS.

200 HP 4-Stroke.....2004-2005

225 HP 4-Stroke 2004-2005

EVINRUDE / JOHNSON



3-BLADE ALUMINUM					4-BLADE ALUMINUM				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
16	R	13	3	992001					
15-1/4	R	15	3	992002					
NEW 16	R	16	3	931516					
15	R	17	3	992003	15	R	16	4	992202
14-1/2	R	19	3	992004	14-1/2	R	18	4	992203
14-1/4	R	21	3	992005	14	R	20	4	992204
14	R	23	3	992006					

Drop-In Hub

Use XHS II® Hub Kit

204

Refer to Pages 47-48 for Details on Hub Kit Components.

STD. 3-BLADE				LG DIAMETER 3-BLADE				4-BLADE			
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #
14-3/8	R	15	993042								
14-3/8	L	15	993052								
14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203
14-1/4	L	17	993053	15-1/2	L	17	993033	14-5/8	L	16	993213
14-1/8	R	19	993044	15-1/4	R	19	993024	14-3/8	R	18	993204
14-1/8	L	19	993054	15-1/4	L	19	993034	14-3/8	L	18	993214
14	R	21	993045	14-3/4	R	21	993025	14-1/8	R	20	993205
14	L	21	993055	14-3/4	L	21	993035	14-1/8	L	20	993215
13-7/8	R	23	993046	14-5/8	R	23	993026	14	R	22	993206
13-7/8	L	23	993056	14-5/8	L	23	993036	14	L	22	993216

Drop-In Hub

Use XHS II® Hub Kit

204

Refer to Pages 47-48 for Details on Hub Kit Components.



NEW **BALLISTIC^{XL}** STAINLESS STEEL PROPS **NEW**

3-BLADE BALLISTIC					3-BLADE BALLISTIC XL				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14-7/8	R	15	3	933515					
14-3/4	R	17	3	933517					
14-3/4	L	17	3	937517					
14-1/2	R	19	3	933519					
14-1/2	L	19	3	937519					
14-3/8	R	21	3	933521					
14-3/8	L	21	3	937521					
14-1/4	R	23	3	933523					
14-1/4	L	23	3	937523					
14-1/4	R	25	3	⊗ 933525					
					14-3/4	R	22	3	⊗ 953522
					14-3/4	R	24	3	⊗ 953524
					14-3/4	R	26	3	⊗ 953526

Drop-In Hub

Use XHS II® Hub Kit

204

Refer to Pages 47-48 for Details on Hub Kit Components.

⊗ May interfere with trim tab.

90-300 HORSEPOWER • V-6 (4-3/4") GEARCASE (Includes E-TEC® & E-TEC® H.O. 25" Shaft Length)

Thru Hub Exhaust & 15 Tooth Spline

90 HP.....1995 & Newer	135 HP.....2014 & Newer	225 HP (Includes E-TEC®).....1986 & Newer
90 HP E-TEC® (25" Shaft Length) ....2004 & Newer	140 (25") HP .....1989-1994	235 HP .....1978-1985
100 HP Commercial .....1984 & Newer	150 HP Commercial .....1995 & Newer	250 HP (Includes E-TEC®).....1991 & Newer
115 HP.....1995 & Newer	150 HP (Includes E-TEC®).....1978 & Newer	275 HP .....1986-1988
115 HP E-TEC® (25" Shaft Length)....2004 & Newer	150 HP Pontoon Series.....2014 & Newer	300 HP .....1988-1995; 09 & Newer
115 HP Pontoon Series.....2014 & Newer	155 HP Commercial .....1978 & Newer	2.6 Liter .....1984-1985
120-140 HP .....1985	175 HP (Includes E-TEC®).....1977 & Newer	3.6 Liter .....1986-1987
130 HP.....1995-1996	185 HP .....1984-1985	*For engines 300 HP or higher, use "High Horsepower Sleeve" (P/N 991372). See Page 43 for more details.
130 HP E-TEC® (25" Shaft Length) .....2009-2010	200 HP.....1976 & Newer	



3-BLADE ALUMINUM					4-BLADE ALUMINUM				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
16	R	13	3	992001					
15-1/4	R	15	3	992002					
NEW 16	R	16	3	931516					
15	R	17	3	992003	15	R	16	4	992202
14-1/2	R	19	3	992004	14-1/2	R	18	4	992203
14-1/4	R	21	3	992005	14	R	20	4	992204
14	R	23	3	992006					

Drop-In Hub
Use XHS II® Hub Kit **200 / 201**

Refer to Pages 47-48 for Details on Hub Kit Components.

STD. 3-BLADE				LG DIAMETER 3-BLADE				4-BLADE			
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #
14-3/8	R	15	993042								
14-3/8	L	15	993052								
14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203
14-1/4	L	17	993053	15-1/2	L	17	993033	14-5/8	L	16	993213
14-1/8	R	19	993044	15-1/4	R	19	993024	14-3/8	R	18	993204
14-1/8	L	19	993054	15-1/4	L	19	993034	14-3/8	L	18	993214
14	R	21	993045	14-3/4	R	21	993025	14-1/8	R	20	993205
14	L	21	993055	14-3/4	L	21	993035	14-1/8	L	20	993215
13-7/8	R	23	993046	14-5/8	R	23	993026	14	R	22	993206
13-7/8	L	23	993056	14-5/8	L	23	993036	14	L	22	993216

Drop-In Hub
Use XHS II® Hub Kit **200 / 201**

Refer to Pages 47-48 for Details on Hub Kit Components.



Boat Description/ Length	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
CR, HB	15-1/2	R	13	3	763453	011016
CR, HB	15-1/2	R	15	3	763471	011006
20'-26' - AL, SK	15	R	17	3	763467	011007
20'-26' - AL, SK						
18'-22' - AL, SK	14-1/2	R	19	3	763468	011008
18'-22' - AL, SK						
17'-19' - AL, SK	14-1/4	R	21	3	763469	011009
17'-19' - AL, SK						
15'-18' - AL, SK	14-1/4	R	23	3	763470	Ⓢ 011010
15'-18' - AL, SK						
High Performance						
High Performance						

Rubber Hub Bushing

STAINLESS STEEL PROPELLERS									
3-BLADE BALLISTIC					3-BLADE BALLISTIC XL				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14-7/8	R	15	3	933515					
14-3/4	R	17	3	933517					
14-3/4	L	17	3	937517					
14-1/2	R	19	3	933519					
14-1/2	L	19	3	937519					
14-3/8	R	21	3	933521					
14-3/8	L	21	3	937521					
14-1/4	R	23	3	933523					
14-1/4	L	23	3	937523					
14-1/4	R	25	3	933525	14-3/4	R	24	3	953524
					14-3/4	R	26	3	953526

Drop-In Hub
Use XHS II® Hub Kit **200 / 201**

Refer to Pages 47-48 for Details on Hub Kit Components.

Note: For engine applications 1976-1990 use XHS II® (Drop-In Hub) Kit #201.
For engine applications 1991 & Newer use XHS II® (Drop-In Hub) Kit #200.



Any Michigan Wheel XHS II Hub Kit can utilize a "High Horsepower Hub" by adding "SH" after the part number (i.e. 200SH).



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

Ⓢ Limited Inventory Item.

3.5-8 HORSEPOWER

Non-Thru Hub Exhaust & 9 Tooth / Pin Drive

3.5 HP.....1982-1984	5 HP.....1987-1998	7 HP.....1968-1988
4 HP.....1977-1987	6 HP.....1975-1981	7.5 HP.....1979-1984
4.4 HP.....1968-1988	6.6 HP.....1968-1988	8 HP.....1975-1978

ALUMINUM PROPELLERS						
Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
Standard Replacement	7-1/4	R	5-1/2	3	48-FP488	072123



Rubber
Hub
Bushing

6-10 HORSEPOWER

Non-Thru Hub Exhaust & 14 Tooth / Pin Drive

6 & 10 HP Sailor.....1976-1977	Sailor 180.....1979-1984	Sailor 280.....1979
Sailor 150.....1978	Sailor 250.....1979-1984	

ALUMINUM PROPELLERS						
Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
SB	10-3/8	R	10	3	FP-278	072014



Rubber
Hub
Bushing

9.9-15 HORSEPOWER

Thru Hub Exhaust & 8 Tooth Spline

9.9 HP.....1996-1998	15 HP.....1996-1998
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ALUMINUM PROPELLERS						
Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
16'-20' - AL	9-1/4	R	7	3	48-828152A12	032056
14'-18' - AL	9	R	9	3	48-828156A12	032052
14'-16' - AL	9	R	10-1/2	3	48-828158A12	032050



Rubber
Hub
Bushing

25 HORSEPOWER • 3" GEARCASE

Thru Hub Exhaust & 10 Tooth Spline • **! MUST use Gearcase Adapter Ring supplied with propeller.**

25 HP 3 Cyl.....1995-1998

ALUMINUM PROPELLERS						
Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
	10-1/2	R	9	3		992501
	10-1/2	R	10	3		992502
15'-19' - AL	10-1/2	R	11	3	48-19638A40	992503
15'-17' - AL	10-1/8	R	12	3		992504
13'-17' - LL	10-1/8	R	13	3	48-19640A40	992505
Up to 14' - LL	10-1/8	R	14	3		992506

Drop-In
Hub
Use XHS®
Hub Kit
120

!
MUST USE
GEARCASE
ADAPTER RING
SUPPLIED WITH
PROPELLER.



ALUMINUM PROPELLERS						
Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
15'-19'	10-3/8	R	11	3	48-19638A40	031049
13'-17'	10-3/8	R	13	3	48-19640A40	031048
Up to 14'						

Rubber
Hub
Bushing

STAINLESS STEEL PROPELLERS						
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	
10-1/8	R	13	3		≈ 933013	120
10-1/8	R	15	3		≈ 933015	!

Drop-In
Hub

Use XHS®
Hub Kit

120

* May interfere with trim tab.

FORCE / CHRYSLER / US MARINE

20-60 HORSEPOWER

Non-Thru Hub Exhaust & 14 Tooth / Pin Drive • Will fit Sailor 6-10 HP engines, as required for RPM

20-25 HP.....1979-1981	40 HP.....1992-1994	55 HP ❖❖.....1966-1983
30 HP.....1966-1976	45 HP.....1966-1984	60 HP ❖❖.....1966-1975
35 HP.....1966-1991	50 HP.....1982-1994	

ALUMINUM PROPELLERS						
Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
CR, HB, SB	10-3/8	R	10	3	48-819337A40	072014
17'-19' - AL, SK	10-3/8	R	11-1/2	3	48-819336A40	072131
16'-17' - AL, SK	10-3/8	R	12-1/2	3	48-819335A40	072132
14'-16' - AL, SK	10-3/8	R	13-1/2	3	48-819334A40	072133



072014

Rubber
Hub
Bushing

FORCE / CHRYSLER /
U.S. MARINE

40-75 HORSEPOWER • 3-1/4" GEARCASE

Thru Hub Exhaust & 13 Tooth Spline

40 HP.....1995-1998	70 HP.....1991-1995	75 HP.....1996-1998
50 HP.....1995-1998		

ALUMINUM PROPELLERS								
3-BLADE			LG. DIAMETER 3-BLADE		4-BLADE			
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	
					11-1/2	R	8	992401
				12-1/4	R	9	992601	992402
				11-3/4	R	10	992602	992403
10-3/8	R	11	992404	11-5/8	R	11	992603	
10-3/8	R	12	992405	11-3/8	R	12	992604	
10-3/8	R	13	992406	11-1/8	R	13	992605	
10-3/8	R	14	992407	11-1/4	R	14	992606	
10	R	15	992408					
10	R	16	992409					

**Drop-In
Hub**

Use XHS®
Hub Kit
114
Refer to
Pages 47-48
for Details
on Hub Kit
Components.

STAINLESS STEEL PROPELLERS						
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	
10-3/4	R	12	3			993405
10-1/2	R	13	3			993406
10-3/8	R	14	3			993407
10-1/8	R	15	3			993408

**Drop-In
Hub**

Use XHS®
Hub Kit
114
Refer to
Pages 47-48
for Details
on Hub Kit
Components.

ALUMINUM PROPELLERS						
Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
19' & Up	12-1/2	R	8	3	48-42738A10	032141
19' & Up	12-1/4	R	9	3		032143
17'-19' - AL, SK	11-1/4	R	10	3	48-73132A40	031015
16'-18' - AL, SK	12	R	10-1/2	3	48-42740A10	032142
16'-18' - AL, SK	10-7/8	R	11	3	48-85632A40	031053
15'-17' - AL, SK	10-3/4	R	12	3	48-816702A40	031056
15'-17' - AL, SK	10-5/8	R	12	3	48-73134A40	031016
14'-17' - AL, SK	10-1/2	R	13	3	48-816704A40	031057
14'-17' - AL, SK	10-3/8	R	13	3	48-73136A40	031017
14'-16' - LL	10-3/8	R	14	3	48-816706A40	031058
14'-16' - LL	10-1/4	R	14	3	48-73138A40	031018
13'-15' - LL	10-1/8	R	15	3	48-73140A40	031019
Up to 15'	10	R	17	3	48-73144A40	031020

**Rubber
Hub
Bushing**

STAINLESS STEEL PROPELLERS						
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	
10-1/8	R	13	3			933213
10-1/8	R	15	3			933215

**Drop-In
Hub**

Use XHS®
Hub Kit
114
Refer to
Pages 47-48
for Details
on Hub Kit
Components.

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

❖❖ Two-piece lower unit.

75-140 HORSEPOWER • SINGLE EXHAUST UNITS ❖ (SEE BELOW)

Non-Thru Hub Exhaust & 15 Tooth Spline

75 HP Std. & Charger .....1980-1984	105 HP 1977-1978; 1982	135 HP .....1977
85 HP Std. & Charger .....1978-1989	115 HP Std. & Charger 1978-1984	140 HP 1978-1984
90 HP .....1983-1984	120 HP .....1977	
100 HP .....1979-1984	125 HP 1977; 1982; 1985-1989	

Boat Description/ Length	MICHIGAN MATCH REPLACEMENT PROPELLERS					
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
16'-17' - AL, SK	13-1/8	R	15	3	FPS519	072055
14'-16' - AL, SK	13-1/4	R	17	3	FPS623	072107
14'-16' - LL	13	R	19	3	FPS625	072108

072108



Rubber
Hub
Bushing

85-150 HORSEPOWER • DUAL EXHAUST UNITS • 4-1/4" GEARCASE (SEE BELOW)

Thru Hub Exhaust & 15 Tooth Spline

85 HP .....1988-1989	120 HP 1990-1994	150 HP 1989-1994
90 HP .....1990-1994	120 HP L-Drive 1989-1991	150 HP L-Drive .....1991
90 HP L-Drive .....1989-1991	125 HP 1988-1989	

VORTEX ^{XHS} PERFORMANCE PROPELLERS				
3-BLADE ALUMINUM			4-BLADE ALUMINUM	
Dia.	Rot.	Pitch	Bld #	Part #
14	R	11	3	992209
13-3/4	R	13	3	992212
13-1/2	R	15	3	992213
13-1/4	R	17	3	992214
13	R	19	3	992215
13	R	21	3	992216

Drop-In
Hub
Use XHS
II[®]
Hub Kit
202
Do NOT use
Gearcase
Adapter Ring
supplied with
propeller.



Vortex[®] XHS[®]
Aluminum Propeller

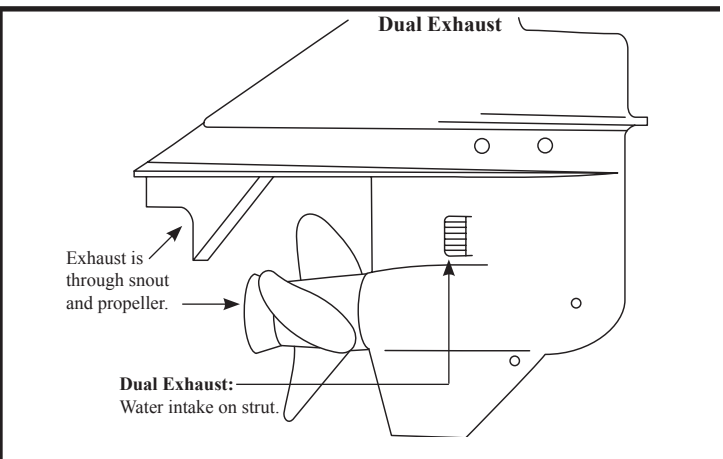
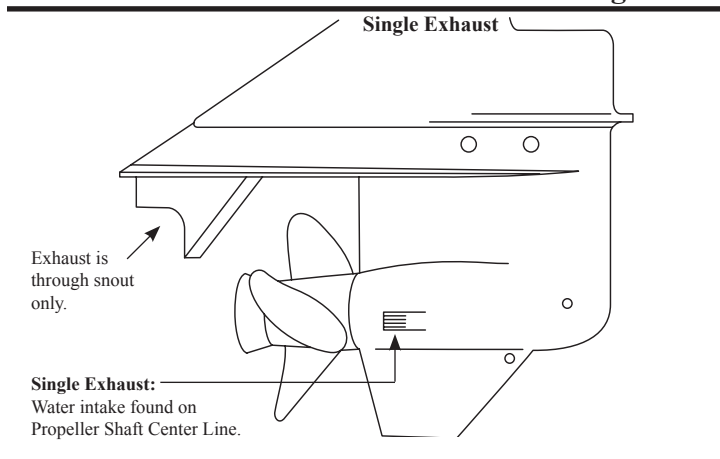
Boat Description/ Length	MICHIGAN MATCH REPLACEMENT PROPELLERS					
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
17'-22' - AL, SK	13-1/2	R	15	3	48-FP669-1	* 071035
17'-22' - AL, SK	13-1/2	R	15	3	48-FP692-1	072127
16'-20' - AL, SK	13-1/2	R	17	3	48-FP685-1	* 071036
16'-20' - AL, SK	13-1/2	R	17	3	48-FP685-1	072128

Rubber
Hub
Bushing



071036

Single vs. Dual Exhaust



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

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

FORCE / CHRYSLER /
US MARINE

75-150 HORSEPOWER • USING MERCURY 4-1/4" GEARCASE (SEE BELOW)

Thru Hub Exhaust & 15 Tooth Spline

75 HP .....1999	120 HP .....1995 & Newer	150 HP .....1989-1994
90 HP .....1995 & Newer	120 HP L-Drive .....1990-1991	150 HP L-Drive .....1991
90 HP L-Drive.....1990-1991		



3-BLADE ALUMINUM					4-BLADE ALUMINUM				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14	R	11	3	992209	13-7/8	R	11	4	941411
13-3/4	R	13	3	992212	13-7/8	R	13	4	941413
13-1/2	R	15	3	992213	13-3/8	R	15	4	941415
13-1/4	R	17	3	992214	13	R	17	4	941417
13	R	19	3	992215	12-1/2	R	19	4	941419
13	R	21	3	992216					

Drop-In Hub
Use XHS II® Hub Kit
202
USE Gearcase Adapter Ring supplied with propeller.
Refer to Pages 47-48 for Details on Hub Kit Components.

STAINLESS STEEL PROPELLERS					
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
13-3/8	R	15	3		993143
13-3/8	L	15	3		993153
13-1/4	R	17	3		993144
13-1/4	L	17	3		993154
13-1/8	R	19	3		993145
13-1/8	L	19	3		993155
13	R	21	3		993146
13	L	21	3		993156

Drop-In Hub
Use XHS II® Hub Kit
202
USE Gearcase Adapter Ring supplied with propeller.
Refer to Pages 47-48 for Details on Hub Kit Components.



Boat Description/Length	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
25' & Up - AL	14	R	10	3		031061
25' & Up - AL	14	R	11	3	48-77338A45	031154
Pontoon	14	R	11	3	48-77338CP1	⊕ ⊗ 031200
25' & Up - AL	14	R	12	3		⊗ 031060
22' & Up	13-3/4	R	13	3	48-77340A45	031155
Pontoon	14	R	13	3	48-77340CP1	⊕ ⊗ 031202
19'-24' - AL, SK	13-1/2	R	15	3	48-77342A45	031141
17'-20' - AL, SK	13-1/4	R	17	3	48-77344A45	031142
16'-19' - AL, SK	13	R	19	3	48-77346A45	031143
15'-18' - AL, SK	13	R	21	3	48-77348A45	031144
Up to 17' - LL	12-1/2	R	23	3	48-77350A45	⊗ 031045

Rubber Hub Bushing

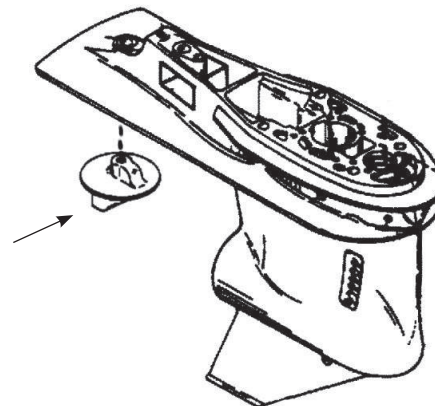
STAINLESS STEEL PROPELLERS									
3-BLADE BALLISTIC					3-BLADE BALLISTIC XL				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
13-5/8	R	15	3	933415					
13-1/2	R	17	3	933417					
13-3/8	R	19	3	933419					
13-1/8	R	21	3	933421	13-1/2	R	22	3	⊗ 953422
					13-1/2	R	24	3	⊗ 953424

Drop-In Hub
Use XHS II® Hub Kit
202
USE Gearcase Adapter Ring supplied with propeller.
Refer to Pages 47-48 for Details on Hub Kit Components.

* Requires high performance trim tab.

Force Using Mercury Gearcase

Exhaust is through propeller only.
No exhaust snout, trim tab only.



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

⊗ Limited Inventory Item.



● For all units 1995 & Newer. Requires thrust washer 13191A1.
* To avoid damage or injury, replace standard trim high performance tab with trim tab 822777A1.

⊕ Pontoon Boat Propeller (Extended Cup)

7.5-10 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive



BF 7.5.....1978-1987 BF 8..... 1987-1999 BF 100 (10 HP)All Years

Boat Description/ Length							 012011	Rubber Hub Bushing	
	ALUMINUM PROPELLERS								
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #			
	16' & Up - LL	9-1/4	R	7	3				012102
	14'-16' - LL	9	R	9	3	58130-881-840ZA			012109
	12'-14' - LL	9	R	10	3				012011
12'-14' - LL	9-1/4	R	11	3		012013			

8-20 HORSEPOWER • 2-1/2" GEARCASE

Thru Hub Exhaust & 8 Tooth Spline





BF 8 TH2000 & Newer BF 151991 & Newer BF 202003 & Newer
BF 9.9.....1988 & Newer

Boat Description/ Length							 102003	Rubber Hub Bushing	
	ALUMINUM PROPELLERS								
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #			
	13'-17' - AL	9-1/4	R	8	3	58130-ZV4-008AH			102003
	12'-15' - AL	9-1/4	R	9	3	58130-ZV4-009AH			102004
	12'-15' - LL	9-1/4	R	10-1/2	3	58130-ZV4-010AH			102005

25-30 HORSEPOWER • 3" GEARCASE

Thru Hub Exhaust & 10 Tooth Spline • **!** MUST use Gearcase Adapter Ring supplied with propeller.

BF 25.....1994 & Newer BF 30.....1995 & Newer

Boat Description/ Length							Drop-In Hub Use XHS® Hub Kit 119 ! MUST USE GEARCASE ADAPTER RING SUPPLIED WITH PROPELLER.	 991244 Gearcase Adapter Rings 992504 Vortex® XHS® Aluminum Propeller	
	ALUMINUM PROPELLERS								
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #			
	20' & Up	10-1/2	R	9	3				992501
	20' & Up	10-1/2	R	10	3				992502
	17'-20' - AL	10-1/2	R	11	3	48-19638A40			992503
	15'-18' - AL	10-1/8	R	12	3				992504
	13'-15' - LL	10-1/8	R	13	3	48-19640A40			992505
13'-15' - LL	10-1/8	R	14	3		992506			
Boat Description/ Length							Rubber Hub Bushing	 Drop-In Hub Use XHS® Hub Kit 119 ! MUST USE GEARCASE ADAPTER RING SUPPLIED WITH PROPELLER.	
	ALUMINUM PROPELLERS								
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #			
	20' & Up	9-7/8	R	9	3	58100-96370-019			111103
	17'-20' - AL	9-7/8	R	11	3	58100-96420-019			111105
	15'-18' - AL	9-7/8	R	12	3	58100-96480-019			111106
	13'-15' - LL								
13'-15' - LL									
STAINLESS STEEL PROPELLERS						*			
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #				
10-1/8	R	13	3		* 933013				
10-1/8	R	15	3		* 933015				

* May interfere with trim tab.

60-130 HORSEPOWER • 4-1/4" GEARCASE

Thru Hub Exhaust & 15 Tooth Spline

BF 60.....2010 & Newer BF 90.....1995 & Newer BF 130.....1998-2004
 BF 75.....1995 & Newer BF 115.....1998-2010



3-BLADE ALUMINUM					4-BLADE ALUMINUM				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14	R	11	3	992209	13-7/8	R	11	4	941411
13-3/4	R	13	3	992212	13-7/8	R	13	4	941413
13-1/2	R	15	3	992213	13-3/8	R	15	4	941415
13-1/4	R	17	3	992214	13	R	17	4	941417
13	R	19	3	992215	12-1/2	R	19	4	941419
13	R	21	3	992216					

Drop-In Hub

Use XHS II® Hub Kit 202 / 207

USE Gearcase Adapter Ring supplied with propeller.

Refer to Pages 47-48 for Details on Hub Kit Components.

STAINLESS STEEL PROPELLERS					
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
13-3/8	R	15	3	58133-ZW1-A15P	993143
13-3/8	L	15	3		993153
13-1/4	R	17	3		993144
13-1/4	L	17	3		993154
13-1/8	R	19	3		993145
13-1/8	L	19	3		993155
13	R	21	3		993146
13	L	21	3		993156

Drop-In Hub

Use XHS II® Hub Kit 202 / 207

USE Gearcase Adapter Ring supplied with propeller.

Refer to Pages 47-48 for Details on Hub Kit Components.

HONDA



Boat Description/Length	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
25' & Up - AL	14	R	10	3		031061
25' & Up - AL	14	R	11	3	58130-ZW1-011AH	031154
Pontoon	14	R	11	3		⊕ ⊗ 031200
25' & Up - AL	14	R	12	3		⊗ 031060
22' & Up	14	R	13	3	58130-ZW1-013AH	031155
Pontoon	14	R	13	3		⊕ ⊗ 031202
19'-24' - AL, SK	13-3/4	R	15	3	58130-ZW1-015AH	031141
17'-20' - AL, SK	13-1/4	R	17	3	58130-ZW1-017AH	031142
16'-19' - AL, SK	13	R	19	3	58130-ZW1-019AH	031143
15'-18' - AL, SK	13	R	21	3	58130-ZW1-021AH	031144
Up to 17' - LL	12-1/2	R	23	3	58130-ZW1-W512A	⊗ 031045

Rubber Hub Bushing

STAINLESS STEEL PROPELLERS									
3-BLADE BALLISTIC					3-BLADE BALLISTIC XL				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
13-5/8	R	15	3	⊗ 933415					
13-1/2	R	17	3	⊗ 933417					
13-3/8	R	19	3	⊗ 933419					
13-1/8	R	21	3	⊗ 944341	13-1/2	R	22	3	⊗ 953422
					13-1/2	R	24	3	⊗ 953424

Drop-In Hub

Use XHS II® Hub Kit 202 / 207

USE Gearcase Adapter Ring supplied with propeller.

Refer to Pages 47-48 for Details on Hub Kit Components.

⊗ May interfere with trim tab.

Note: For BF 75 & BF 90 HP 1995-1998 engine applications use XHS II® (Drop-In Hub) Kit #202.
 For BF 75 & BF 90 HP 1999 & Newer engine applications use XHS II® (Drop-In Hub) Kit #207.
 For BFP 60, BF 115 & BF 130 HP 1998 & Newer engine applications use XHS II® (Drop-In Hub) Kit #207.



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

⊗ Limited Inventory Item.

⊕ Pontoon Boat Propeller (Extended Cup)

115-250 HORSEPOWER • 4-3/4" GEARCASE

Thru Hub Exhaust & 15 Tooth Spline

BF 115 2011 & Newer
 BF 135 2004 & Newer

BF 150 2004 & Newer
 BF 200 2002 & Newer

BF 225 2002 & Newer
 BF 250 2012 & Newer



3-BLADE ALUMINUM					4-BLADE ALUMINUM				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
16	R	13	3	992001					
15-1/4	R	15	3	992002					
NEW 16	R	16	3	931516					
15	R	17	3	992003	15	R	16	4	992202
14-1/2	R	19	3	992004	14-1/2	R	18	4	992203
14-1/4	R	21	3	992005	14	R	20	4	992204
14	R	23	3	992006					

Drop-In Hub
 Use XHS II® Hub Kit
207
 Refer to Pages 47-48 for Details on Hub Kit Components.

STD. 3-BLADE				LG DIAMETER 3-BLADE				4-BLADE			
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #
14-3/8	R	15	993042								
14-3/8	L	15	993052								
14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203
14-1/4	L	17	993053	15-1/2	L	17	993033	14-5/8	L	16	993213
14-1/8	R	19	993044	15-1/4	R	19	993024	14-3/8	R	18	993204
14-1/8	L	19	993054	15-1/4	L	19	993034	14-3/8	L	18	993214
14	R	21	993045	14-3/4	R	21	993025	14-1/8	R	20	993205
14	L	21	993055	14-3/4	L	21	993035	14-1/8	L	20	993215
13-7/8	R	23	993046	14-5/8	R	23	993026	14	R	22	993206
13-7/8	L	23	993056	14-5/8	L	23	993036	14	L	22	993216

Drop-In Hub
 Use XHS II® Hub Kit
207
 Refer to Pages 47-48 for Details on Hub Kit Components.



Boat Description/ Length	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
CR, HB	16	R	13	3	58130-ZY3-013A	031022
21'-24' - AL	15-1/4	R	15	3	58130-ZY3-015A	031023
20'-23' - AL, SK	16	R	16	3		031051
19'-23' - AL, SK	14-1/2	R	17	3	58130-ZY3-017A	031024
19'-23' - AL, SK	15	R	17	3		031064
19'-22' - AL, SK	15-1/2	R	18	3		031052
18'-22' - AL, SK	14	R	19	3	58130-ZY3-019A	031025
18'-22' - AL, SK	14-1/2	R	19	3		031065
18'-20' - AL, SK	13-3/4	R	21	3	58130-ZY3-021A	031026
18'-20' - AL, SK	14-1/4	R	21	3		031066
17'-20' - AL, SK						
17'-20' - AL, SK						
Up to 18'						
High Performance						
High Performance						
High Perf. (EFI)						
4-BLADE MICHIGAN MATCH						
21'-24' - AL, SK	15	R	16	4		031080
19'-23' - AL, SK	14-1/2	R	18	4		031082
18'-20' - AL, SK	14	R	20	4		031084

Rubber Hub Bushing


STAINLESS STEEL PROPELLERS									
3-BLADE BALLISTIC					3-BLADE BALLISTIC XL				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14-7/8	R	15	3	933515					
14-3/4	R	17	3	933517					
14-3/4	L	17	3	937517					
14-1/2	R	19	3	933519					
14-1/2	L	19	3	937519					
14-3/8	R	21	3	933521					
14-3/8	L	21	3	937521					
14-1/4	R	23	3	933523					
14-1/4	L	23	3	937523					
14-1/4	R	25	3	933525					
					14-3/4	R	22	3	953522
					14-3/4	R	24	3	953524
					14-3/4	R	26	3	953526

Drop-In Hub
 Use XHS II® Hub Kit
207
 Refer to Pages 47-48 for Details on Hub Kit Components.

4-10 HORSEPOWER

Thru Hub Exhaust & 8 Tooth Spline

4 HP (Model 40)1973-1975 7.5 HP (Model 75 / Model 7.5) 1968-1978 9.8 HP (Model 110 / Model 9.8)... 1968-1985
 4.5 HP (Model 45 / Model 4.5)1973-1981

Boat Description/ Length						
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
Standard Replacement	9	R	9	2	48-47922A10	032021
14'-16' - AL	9	R	7	3	48-47670A10	032020




Rubber
Hub
Bushing

6-15 HORSEPOWER • 2-1/2" GEARCASE

Thru Hub Exhaust & 8 Tooth Spline

6 HP 2-Stroke (Includes Merc 6)1986-2002 9.9 HP 4-Stroke (Not Bigfoot) 1995-2004 15 HP 2-Stroke 1989-2005
 8 HP 2-Stroke (Includes Merc 8)1986-2005 10 HP 1995 & Newer 15 HP 4-Stroke 1999-2006
 8 HP 4-Stroke (Not Bigfoot)1995-2004 10 HP (Sea Pro/Marathon) 1995-2001
 9.9 HP 2-Stroke (Includes Merc 9.9)1986-2005 15 HP (Sea Pro/Marathon) 1995-2001

Boat Description/ Length						
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
16'-20' - AL	9-1/4	R	7	3	48-828152A12	032056
14'-18' - AL	9	R	9	3	48-828156A12	032052
14'-16' - AL	9	R	10-1/2	3	48-828158A12	032050




Rubber
Hub
Bushing

8-9.9 HORSEPOWER (4-STROKE) • 2-1/2" GEARCASE

Thru Hub Exhaust & 12 Tooth Spline

8 HP 4-Stroke (Non Bigfoot)2005 & Newer 9.9 HP 4-Stroke (Not Bigfoot)2005 & Newer

Boat Description/ Length						
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
14'-17' - AL	8-1/2	R	7	3	48-897614A10	142102
13'-16' - AL	8-1/2	R	8	3	48-897618A10	142103




Rubber
Hub
Bushing

9.9-25 HORSEPOWER • 3" GEARCASE

Thru Hub Exhaust & 10 Tooth Spline • **! MUST use Gearcase Adapter Ring supplied with propeller.**

9.9 HP 4-Stroke Bigfoot/Sail1999-2005 20 HP 2-Stroke (Mercury®) 1986-2002 25 HP 2-Stroke (Mariner®)1985 & Newer
 15 HP 4-Stroke Bigfoot/Sail1999-2005 25 HP 2-Stroke (Mercury®) 1980-2005 25 HP (Sea Pro/Marathon).....All Years
 18 HP (Mercury®)1980-1985

Boat Description/ Length						
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
	10-1/2	R	9	3		992501
	10-1/2	R	10	3		992502
15'-19'	10-1/2	R	11	3	48-19638A40	992503
13'-17'	10-1/8	R	12	3	48-19639A40	992504
13'-17'	10-1/8	R	13	3	48-19640A40	992505
Up to 14'	10-1/8	R	14	3		992506


Drop-In
Hub

Use XHS®
Hub Kit




120

! MUST USE GEARCASE ADAPTER RING SUPPLIED WITH PROPELLER.



Boat Description/ Length						
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
15'-19'	10-3/8	R	11	3	48-19638A40	031049
13'-17'	10-3/8	R	13	3	48-19640A40	031048
Up to 14'						

Rubber
Hub
Bushing

							
STAINLESS STEEL PROPELLERS							
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
					120		
10-1/8	R	13	3	48-19644A5	933013		
10-1/8	R	15	3		933015		

Drop-In
Hub
Use XHS®
Hub Kit



120

!

9.9-20 HORSEPOWER

Thru Hub Exhaust & 14 Tooth Spline

9.9 HP Bigfoot2005 & Newer 15 HP 4-Stroke2007 & Newer 20 HP 4-Stroke2007 & Newer



Boat Description/ Length							 142206	Rubber Hub Bushing
	ALUMINUM PROPELLERS							
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
15'-19' - AL	9-1/4	R	8	3	48-897748A11	142203		
Standard Replacement	9-1/4	R	9	3	48-897750A11	*142204		
Standard Replacement	9-1/4	R	10	3	48-897752A11	*142205		
Up to 16' - LL	9-1/4	R	11	3	48-897754A11	142206		

* Standard replacement for 15 HP 4-Stroke is 142204. Standard replacement for 20 HP 4-Stroke is 142205.

20 HORSEPOWER

Thru Hub Exhaust & 8 Tooth Spline



20 HP (Includes Merc 20 / Merc 200)1963-1981

Boat Description/ Length							 032136	Rubber Hub Bushing
	ALUMINUM PROPELLERS							
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
Standard Replacement	9-7/8	R	11	2	48-33480A1	032135		
14'-16' - AL	10	R	9	3	48-86962A4	032136		

15-25 HORSEPOWER • MARINER

Non-Thru Hub Exhaust & Pin Drive



15 HP.....1976-1981 W151977-1985 25 HP1977-1979
15A.....1979-1982 20 HP.....1976-1979

Boat Description/ Length							 012011	Rubber Hub Bushing
	ALUMINUM PROPELLERS							
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
HB, SB	9-1/4	R	7	3	48-96628	012102		
12'-14' - HL	9	R	9	3		012109		
12'-14' - HL	9	R	10	3	48-96625	012011		
12'-14' - LL	9-1/4	R	11	3	48-96623	012013		

25-30 HORSEPOWER • MARINER • 3" GEARCASE

Thru Hub Exhaust & 10 Tooth Spline

25 HP.....1980-1984 28 HP1976-1979 30 HP1979-1990



Boat Description/ Length							 022001	Rubber Hub Bushing
	ALUMINUM PROPELLERS							
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
16'-18' - AL, SK	9-7/8	R	9	3	48-81647	022001		
14'-17' - AL, SK	9-7/8	R	10-1/2	3	48-81649	022002		
13'-16' - LL	9-7/8	R	12	3	48-82826	022003		



25-30 HORSEPOWER 4-STROKE • MERCURY • 3" GEARCASE

Thru Hub Exhaust & 10 Tooth Spline • **!** MUST use Gearcase Adapter Ring supplied with propeller.

25 HP 4-Stroke (Not Bigfoot)2006 & Newer

30 HP 4-Stroke (Not Bigfoot)2006 & Newer

Boat Description/ Length	 ALUMINUM PROPELLERS						Drop-In Hub Use XHS® Hub Kit 122 ! MUST USE GEARCASE ADAPTER RING SUPPLIED WITH PROPELLER.	 991244 Gearcase Adapter Rings 992504 Vortex® XHS® Aluminum Propeller
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
16'-20' - AL	10-1/2	R	9	3		992501		
14'-18' - AL	10-1/2	R	10	3		992502		
14'-18' - AL	10-1/2	R	11	3		992503		
14'-18' - AL	10-1/8	R	12	3		992504		
12'-16' - AL	10-1/8	R	13	3		992505		
12'-16' - AL	10-1/8	R	14	3		992506		

Boat Description/ Length	 ALUMINUM PROPELLERS						Rubber Hub Bushing	 141306
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
16'-20' - AL	9-7/8	R	9	3	48-896892A40	141304		
14'-18' - AL	9-7/8	R	11	3	48-896896A40	141305		
12'-16' - AL	9-7/8	R	13	3	48-896900A40	141306		
12'-16' - AL								

40-65 HORSEPOWER • 3-1/4" GEARCASE



Thru Hub Exhaust & 13 Tooth Spline



40 HP (Model 402)1974-1976

60 HP (Mariner®)1976

65 HP (Model 650) 1972-1976

50 HP (Model 500)1974-1976

Boat Description/ Length	 ALUMINUM PROPELLERS						Drop-In Hub Use XHS® Hub Kit 114 Refer to Pages 47-48 for Details on Hub Kit Components.	 STAINLESS STEEL PROPELLERS	Drop-In Hub Use XHS® Hub Kit 114 Refer to Pages 47-48 for Details on Hub Kit Components.				
	3-BLADE		LG. DIAMETER 3-BLADE		4-BLADE					Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
						11-1/2	R	8				992401	
						12-1/4	R	9				992601	
						11-3/4	R	10				992602	
						11-1/2	R	10				992403	
	10-3/8	R	11			11-5/8	R	11				992603	
	10-3/8	R	12			11-3/8	R	12				992604	
	10-3/8	R	13			11-1/8	R	13				992605	
	10-3/8	R	14			11-1/4	R	14				992606	
	10	R	15									992408	
	10	R	16									992409	

Boat Description/ Length	 ALUMINUM PROPELLERS						Rubber Hub Bushing Use OEM Fwd Washer 65758 Aft Washer 62124	 STAINLESS STEEL PROPELLERS	Drop-In Hub Use XHS® Hub Kit 114 Refer to Pages 47-48 for Details on Hub Kit Components.				
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #				Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
19'-22' - AL	12-1/4	R	9	3		032046							
19'-22' - AL	11-3/4	R	10	3	48-61812A1	032045							
17'-19' - AL, SK	11-5/8	R	11	3	48-61814A1	032044							
16'-17' - AL, SK	11-3/8	R	12	3	48-61816A1	032043							
14'-16' - LL	11-1/8	R	13	3	48-61818A1	032042							
12'-14' - LL	11-1/4	R	14	3	48-61820A1	032041							
12'-14' - LL	11	R	15	3	48-61822A1	032040							
	10-1/8	R	13	3			933013						
	10-1/8	R	15	3			933015						

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





25-70 HORSEPOWER • 3-1/4" GEARCASE

Thru Hub Exhaust & 13 Tooth Spline • Vortex® & Apollo® Propellers are Not Compatible with Mercury's Reflex® Hub System.

25 HP 4-Stroke/Bigfoot1999-2005
 30 HP 2-Stroke1994-2002
 30 HP 4-Stroke1999-2005
 30 HP (Sea Pro/Marathon) 1994 & Newer
 35 HP1984-1989
 40 HP 2-Stroke (Includes Model 402) 1977 & Newer

40 HP 4-Stroke (Not Bigfoot)1997 & Newer
 40 HP (Sea Pro/Marathon)1977 & Newer
 45 HP 1986-1989
 48 HP (Mariner®).....All Years
 50 HP 2-Stroke (Includes Model 500) ..1977 & Newer

50 HP 4-Stroke (Not Bigfoot)1995 & Newer
 55 HP (Mercury/Sea Pro/Marathon)1995 & Newer
 60 HP 2-Stroke1978 & Newer
 60 HP 4-Stroke (Not Bigfoot)2001 & Newer
 70 HP (Includes Model 700).....Thru 1983

																			
ALUMINUM PROPELLERS								STAINLESS STEEL PROPELLERS											
3-BLADE				LG. DIAMETER 3-BLADE				4-BLADE				Drop-In Hub							
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
								11-1/2	R	8	992401								
				12-1/4	R	9	992601	11-1/2	R	9	992402								
				11-3/4	R	10	992602	11-1/2	R	10	992403								
10-3/8	R	11	992404	11-5/8	R	11	992603					10-3/4	R	12	3	48-855856A5	993405		
10-3/8	R	12	992405	11-3/8	R	12	992604					10-1/2	R	13	3	48-855858A5	993406		
10-3/8	R	13	992406	11-1/8	R	13	992605					10-3/8	R	14	3	48-855860A5	993407		
10-3/8	R	14	992407	11-1/4	R	14	992606					10-1/8	R	15	3	48-855862A5	993408		
10	R	15	992408																
10	R	16	992409																
																			
								ALUMINUM PROPELLERS								STAINLESS STEEL PROPELLERS			
Boat Description/ Length				Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	Drop-In Hub			
19' & Up				12-1/2	R	8	3	48-42738A10	032141									Use XHS® Hub Kit 114 Refer to Pages 47-48 for Details on Hub Kit Components.	
19' & Up				12-1/4	R	9	3		032143										
17'-19' - AL, SK				11-1/4	R	10	3	48-73132A40	031015										
16'-18' - AL, SK				12	R	10-1/2	3	48-42740A10	032142										
16'-18' - AL, SK				10-7/8	R	11	3	48-85632A40	031053										
15'-17' - AL, SK				10-3/4	R	12	3	48-816702A40	031056										
15'-17' - AL, SK				10-5/8	R	12	3	48-73134A40	031016										
14'-17' - AL, SK				10-1/2	R	13	3	48-816704A40	031057					10-1/8	R	13	3		933013
14'-17' - AL, SK				10-3/8	R	13	3	48-73136A40	031017										
14'-16' - LL				10-3/8	R	14	3	48-816706A40	031058										
14'-16' - LL				10-1/4	R	14	3	48-73138A40	031018										
13'-15' - LL				10-1/8	R	15	3	48-73140A40	031019					10-1/8	R	15	3	933015	
Up to 15'				10	R	17	3	48-73144A40	031020										

Drop-In Hub
 Use XHS®
 Hub Kit
114
 Refer to
 Pages 47-48
 for Details
 on Hub Kit
 Components.

Rubber
 Hub
 Bushing

Drop-In Hub
 Use XHS®
 Hub Kit
114
 Refer to
 Pages 47-48
 for Details
 on Hub Kit
 Components.

Drop-In Hub
 Use XHS®
 Hub Kit
114
 Refer to
 Pages 47-48
 for Details
 on Hub Kit
 Components.

MERCURY /
 MARINER / SEA RAY



40-140 HORSEPOWER • 4-1/4" GEARCASE

Thru Hub Exhaust & 15 Tooth Spline

40 & 50 HP 4-Stroke / Bigfoot	.....All Years
40 HP Command Thrust	.....2014 & Newer
50 HP Command Thrust	.....2014 & Newer
60 HP 4-Stroke / Bigfoot	.....1995 & Newer
60 HP (Sea Pro/Marathon)	.....1995 & Newer
60 HP Command Thrust	.....2014 & Newer
65 HP (Model 650 - 2 Cyl.)	.....Thru 1971
65 HP (Model 650 - 4 Cyl.)	.....1961-1970
70 HP	.....1987-1989
75 HP (Sea Pro/Marathon)	.....All Years

75 HP 2-Stroke	.....1984-2005
75 HP 4-Stroke	.....2001 & Newer
80 HP	.....1978-1989
80 HP (Mariner®)	.....1978-1983
80 HP (Model 800; 2 & 4 Cyl.)	.....Thru 1977
80 HP (Yamaha®)	.....1977-1983
85 HP (Model 850; 2 & 4 Cyl.)	.....Thru 1977
90 HP (Yamaha®)	.....1978-1983
90 HP 2-Stroke	.....1978 & Newer
90 HP 4-Stroke (Not Command Thrust)	.....2001 & Newer

100 HP	.....1988 & Newer
115 HP (Yamaha®)	.....1978-1983
115 HP	.....1978 & Newer
115 HP 4-Stroke*	.....2001 & Newer
125 HP	.....1994 & Newer
140 HP (Includes Sea Pro/Offshore)	.....1978-1981
140 HP (Yamaha®)	.....1978-1979
Models 900-1150-1500	.....Thru 1977

Includes EFI engines.

*Does not include Command Thrust model.



3-BLADE ALUMINUM					4-BLADE ALUMINUM				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14	R	11	3	992209	13-7/8	R	11	4	941411
13-3/4	R	13	3	992212	13-7/8	R	13	4	941413
13-1/2	R	15	3	992213	13-3/8	R	15	4	941415
13-1/4	R	17	3	992214	13	R	17	4	941417
13	R	19	3	992215	12-1/2	R	19	4	941419
13	R	21	3	992216					

Drop-In Hub
Use XHS II® Hub Kit
202
USE Gearcase Adapter Ring supplied with propeller.
Refer to Pages 47-48 for Details on Hub Kit Components.

STAINLESS STEEL PROPELLERS					
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
13-3/8	R	15	3		993143
13-3/8	L	15	3		993153
13-1/4	R	17	3		993144
13-1/4	L	17	3		993154
13-1/8	R	19	3		993145
13-1/8	L	19	3		993155
13	R	21	3		993146
13	L	21	3		993156

Drop-In Hub
Use XHS II® Hub Kit
202
USE Gearcase Adapter Ring supplied with propeller.
Refer to Pages 47-48 for Details on Hub Kit Components.

MERCURY / MARINER / SEA RAY



Boat Description/Length	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
25' & Up - AL	14	R	10	3	48-854342A45	031061
25' & Up - AL	14	R	11	3	48-77338A45	031154
Pontoon	14	R	11	3	48-77338CP1	☞ ☞ 031200
25' & Up - AL	14	R	12	3		☞ ☞ 031060
22' & Up - AL	13-3/4	R	13	3	48-77340A45	031155
Pontoon	14	R	13	3	48-77340CP1	☞ ☞ 031202
19'-24' - AL, SK	13-1/2	R	15	3	48-77342A45	031141
17'-20' - AL, SK	13-1/4	R	17	3	48-77344A45	031142
16'-19' - AL, SK	13	R	19	3	48-77346A45	031143
15'-18' - AL, SK	13	R	21	3	48-77348A45	031144
High Performance	12-1/2	R	23	3	48-77350A45	☞ ☞ 031045
High Performance						

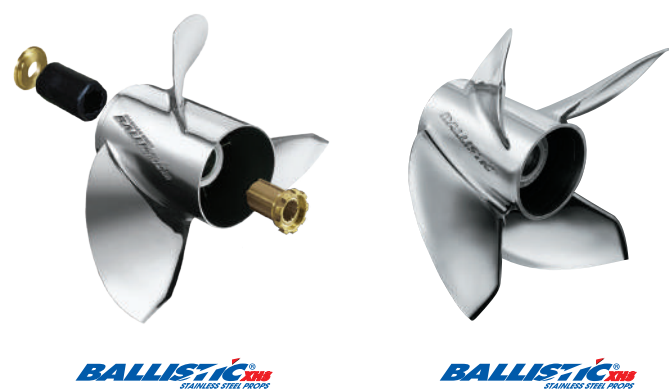
Rubber Hub Bushing
Use
MWM Fwd Washer 990332
or
MWM Kit 9660-1 (Fwd Washer, Tab Washer, Propeller Nut)
See Page 24 for details.

STAINLESS STEEL PROPELLERS									
3-BLADE BALLISTIC					3-BLADE BALLISTIC XL				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
13-5/8	R	15	3	933415					
13-1/2	R	17	3	933417					
13-3/8	R	19	3	933419					
13-1/8	R	21	3	933421					
					13-1/2	R	22	3	953422
					13-1/2	R	24	3	953424

Drop-In Hub
Use XHS II® Hub Kit
202
USE Gearcase Adapter Ring supplied with propeller.
Refer to Pages 47-48 for Details on Hub Kit Components.



Recipient of the Gold Medal Award presented by Bass & Walleye Boats Magazine, Ballistic propellers have been modified to utilize Michigan Wheel's XHS Hub Kit.



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

☞ Limited Inventory Item. ☞ Pontoon Boat Propeller (Extended Cup)
☞ To avoid damage or injury, replace standard trim tab with high performance trim tab 82277A1.

90-300 HORSEPOWER • V-6 (4-3/4") GEARCASE

Thru Hub Exhaust & 15 Tooth Spline

90 HP Command Thrust.....2014 & Newer
 115 HP Command Thrust.....2014 & Newer
 135 HP.....1987 & Newer
 150 HP.....1978 & Newer
 Add 4" Pitch for Twin Motors
 Includes DFI, EFI, Magnum, Offshore,
 Optimax, Sea Pro XRI, Marathon & Verado.

150 HP (Yamaha®).....1979-1983
 175 HP.....1978 & Newer
 175 HP (Yamaha®).....1978-1979
 200 HP.....1978 & Newer
 220 HP.....1987-1988
 225 HP.....1980 & Newer
 225 HP (Sea Pro/Marathon).....All Years

250 HP.....1994 & Newer
 275 HP.....1990-1994
 300 HP.....1983; 1999 & Newer
 3.4 Litre.....1984-1986

***For engines 300 HP or higher, use "High Horsepower Sleeve" (P/N 991372). See Page 43 for more details.**



3-BLADE ALUMINUM					4-BLADE ALUMINUM			
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Part #
16	R	13	3	992001				
15-1/4	R	15	3	992002				
16	R	16	3	931516				
15	R	17	3	992003	15	R	16	4 992202
14-1/2	R	19	3	992004	14-1/2	R	18	4 992203
14-1/4	R	21	3	992005	14	R	20	4 992204
14	R	23	3	992006				

Drop-In Hub
 Use XHS II® Hub Kit
202
 Refer to Pages 47-48 for Details on Hub Kit Components.

STD. 3-BLADE				LG DIAMETER 3-BLADE				4-BLADE			
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #
14-3/8	R	15	✳ 993042								
14-3/8	L	15	✳ 993052								
14-1/4	R	17	✳ 993043	15-1/2	R	17	✳ 993023	14-5/8	R	16	✳ 993203
14-1/4	L	17	✳ 993053	15-1/2	L	17	✳ 993033	14-5/8	L	16	✳ 993213
14-1/8	R	19	✳ 993044	15-1/4	R	19	✳ 993024	14-3/8	R	18	✳ 993204
14-1/8	L	19	✳ 993054	15-1/4	L	19	✳ 993034	14-3/8	L	18	✳ 993214
14	R	21	✳ 993045	14-3/4	R	21	✳ 993025	14-1/8	R	20	✳ 993205
14	L	21	✳ 993055	14-3/4	L	21	✳ 993035	14-1/8	L	20	✳ 993215
13-7/8	R	23	✳ 993046	14-5/8	R	23	✳ 993026	14	R	22	✳ 993206
13-7/8	L	23	✳ 993056	14-5/8	L	23	✳ 993036	14	L	22	✳ 993216

Drop-In Hub
 Use XHS II® Hub Kit
202
 Refer to Pages 47-48 for Details on Hub Kit Components.



Boat Description/ Length	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
CR, HB	16	R	13	3	48-78114A45	031022
21'-24' - AL	15-1/4	R	15	3	48-78116A45	031023
20'-23' - AL, SK	16	R	16	3	48-16440A45	031051
19'-23' - AL, SK	14-1/2	R	17	3	48-78118A40	031024
19'-23' - AL, SK	15	R	17	3	48-832828A45	031064
19'-22' - AL, SK	15-1/2	R	18	3	48-11324A45	031052
18'-22' - AL, SK	14	R	19	3	48-78120A40	031025
18'-22' - AL, SK	14-1/2	R	19	3	48-832830A45	031065
18'-20' - AL, SK	13-3/4	R	21	3	48-78122A40	031026
18'-20' - AL, SK	14-1/4	R	21	3	48-832832A45	031066
17'-20' - AL, SK						
17'-20' - AL, SK						
Up to 18'						
High Performance						
High Performance						
High Performance						
4-BLADE MICHIGAN MATCH						
21'-24' - AL, SK	15	R	16	4	48-834850A45	031080
19'-23' - AL, SK	14-1/2	R	18	4	48-834852A45	031082
18'-20' - AL, SK	14	R	20	4	48-834854A45	031084
50-62 MPH						
55-67 MPH						
60-72 MPH						

Rubber Hub Bushing
 Use MWM Kit 990312 (Conductivity Washer, Aft Washer) or MWM Kit 9661-1 (Fwd Washer, Conductivity Washer, Aft Washer, Tab Washer, Propeller Nut)
 See Page 24 for details.

STAINLESS STEEL PROPELLERS									
3-BLADE BALLISTIC					3-BLADE BALLISTIC XL				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14-7/8	R	15	3	✳ 933515					
14-3/4	R	17	3	✳ 933517					
14-3/4	L	17	3	✳ 937517					
14-1/2	R	19	3	✳ 933519					
14-1/2	L	19	3	✳ 937519					
14-3/8	R	21	3	✳ 933521					
14-3/8	L	21	3	✳ 937521					
14-1/4	R	23	3	✳ 933523					
14-1/4	L	23	3	✳ 937523					
14-1/4	R	25	3	✳ 933525					
					14-3/4	R	22	3	✳ 953522
					14-3/4	R	24	3	✳ 953524
					14-3/4	R	26	3	✳ 953526

Drop-In Hub
 Use XHS II® Hub Kit
202
 Refer to Pages 47-48 for Details on Hub Kit Components.

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

✳ To avoid damage or injury, replace standard trim tab with high performance trim tab 822777A1.

MERCURY / MARINER / SEA RAY

Replacing a Flo-Torq® Hub with Michigan Propellers

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

Propellers supplied from Mercury®, Mariner® and Force® since 1996 come with the Flo-Torq® II drop in hubs. When switching to Michigan Match® or Ballistic® propellers, change the attaching hardware set-up as follows.

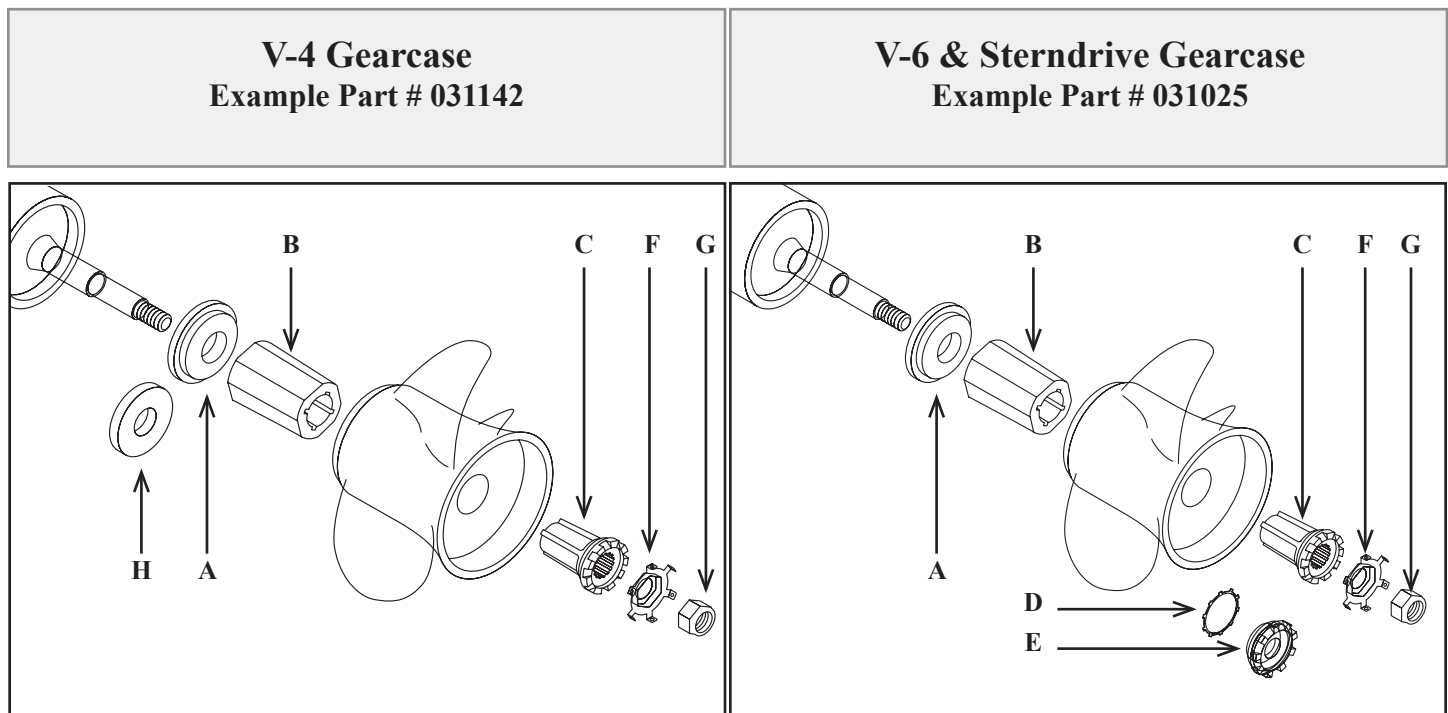
When converting to a Michigan Propeller on a **V-4 gearcase**, eliminate B & C, replace A with H and use existing hardware F & G.

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 replace C). Be sure to use high-performance trim tab 822777A1 for stainless steel installations.

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

- 990312 Includes D & E for the V-6 gearcase.
- 990332 Includes Forward Thrust Washer H for V-4 gearcase.

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





- A) **991204** Forward Thrust Washer
- B) **991301** Plastic Drive Sleeve
- C) **991205** Metal Sleeve Adapter
- D) **990340** Conductivity (Star) Washer

- E) **990348** Aft Castle Washer
- F) **990344** Locking Tab Washer
- G) **990346** Shaft Propeller Nut
- H) **990347** Forward Thrust Washer

8-9.8 HORSEPOWER (4-STROKE) • 2-1/2" GEARCASE

Thru Hub Exhaust & 12 Tooth Spline



8 HP 4-Stroke2005 & Newer 9.8 HP 4-Stroke2005 & Newer

Boat Description/ Length								Rubber Hub Bushing
	ALUMINUM PROPELLERS							
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
Heavy Loads	8-1/2	R	7	3	3B2B64-5120	142102		
Moderate Loads	8-1/2	R	8	3	3B2B64-5151	142103		

9.9-20 HORSEPOWER • 2-1/2" GEARCASE

Thru Hub Exhaust & 14 Tooth Spline



9.9 HP 2-Stroke1984 & Newer 15 HP 2-Stroke1985 & Newer 18 HP 4-Stroke2001-2008
 9.9 HP 4-Stroke2000-2003 15 HP 4-Stroke2000 & Newer 20 HP 4-Stroke2007 & Newer
 12 HP1985-1988 18 HP 2-Stroke1985 & Newer



Boat Description/ Length								Rubber Hub Bushing
	ALUMINUM PROPELLERS							
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
15'-19' - AL	9-1/4	R	8	3	36264-1020M	142203		
14'-17' - AL	9-1/4	R	9	3	36264-1010M	142204		
Up to 16' - LL	9-1/4	R	10	3	36264-1080M	142205		
Up to 16' - LL	9-1/4	R	11	3		142206		

25-30 HORSEPOWER • 3" GEARCASE

Thru Hub Exhaust & 10 Tooth Spline • **ⓘ MUST use Gearcase Adapter Ring supplied with propeller.**

25 HP1986-2001 30 HP1985-2001 30 HP 4-Stroke2002 & Newer

Boat Description/ Length								Drop-In Hub Use XHS® Hub Kit 122 ⓘ MUST USE GEARCASE ADAPTER RING SUPPLIED WITH PROPELLER.
	ALUMINUM PROPELLERS							
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
16'-20' - AL	10-1/2	R	9	3	346-64101-5	992501		
14'-18' - AL	10-1/2	R	10	3	346-64102-5	992502		
14'-18' - AL	10-1/2	R	11	3	346-64103-5	992503		
14'-18' - AL	10-1/8	R	12	3		992504		
12'-16' - AL	10-1/8	R	13	3	346-64104-5	992505		
12'-16' - AL	10-1/8	R	14	3		992506		

Boat Description/ Length								Rubber Hub Bushing
	ALUMINUM PROPELLERS							
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
16'-20' - AL	9-7/8	R	9	3	*3R0B645180	141304		
12'-16' - AL	9-7/8	R	11	3	*3R0B645230	141305		
12'-16' - AL	9-7/8	R	13	3	*3R0B645270	141306		
12'-16' - AL								



35-50 HORSEPOWER • 3-1/4" GEARCASE



Thru Hub Exhaust & 13 Tooth Spline

35 HP (35B Only) Thru 1984

40 HP (Includes TLDI).....1984 & Newer

50 HP (Except 50C - Includes TLDI)....1992 & Newer

							
ALUMINUM PROPELLERS				STAINLESS STEEL PROPELLERS			
3-BLADE		LG. DIAMETER 3-BLADE		4-BLADE			
Dia.	Rot. Pitch	Part #	Dia.	Rot. Pitch	Part #	Dia.	Rot. Pitch
						11-1/2	R 8
						11-1/2	R 9
						11-1/2	R 10
10-3/8	R	11	992404	11-5/8	R	11	992603
10-3/8	R	12	992405	11-3/8	R	12	992604
10-3/8	R	13	992406	11-1/8	R	13	992605
10-3/8	R	14	992407	11-1/4	R	14	992606
10	R	15	992408				
10	R	16	992409				

							
ALUMINUM PROPELLERS				STAINLESS STEEL PROPELLERS			
3-BLADE		LG. DIAMETER 3-BLADE		4-BLADE			
Dia.	Rot. Pitch	Part #	Dia.	Rot. Pitch	Part #	Dia.	Rot. Pitch
16'-19' - AL			11-5/8	R	11	3	3T5B645230
14'-18' - AL			11-1/8	R	13	3	3T5B645270

Drop-In Hub
Use XHS® Hub Kit
116

Refer to Pages 47-48 for Details on Hub Kit Components.

Rubber Hub Bushing

Drop-In Hub
Use XHS® Hub Kit
116

Refer to Pages 47-48 for Details on Hub Kit Components.

Drop-In Hub
Use XHS® Hub Kit
116

50-70 HORSEPOWER • 3-1/4" GEARCASE

Thru Hub Exhaust & 13 Tooth Spline


50 HP (50C Only)1987-1991

60A1986-1999

70A & 70B.....1981-1995

55 HP.....1981-1988

							
ALUMINUM PROPELLERS				STAINLESS STEEL PROPELLERS			
3-BLADE		LG. DIAMETER 3-BLADE		4-BLADE			
Dia.	Rot. Pitch	Part #	Dia.	Rot. Pitch	Part #	Dia.	Rot. Pitch
						11-1/2	R 8
						11-1/2	R 9
						11-1/2	R 10
11-3/4	R	13	992301	12-1/2	R	13	992311
11-3/4	R	15	992302	12-1/4	R	15	992312
11-3/4	R	17	992303				

							
ALUMINUM PROPELLERS				STAINLESS STEEL PROPELLERS			
3-BLADE		LG. DIAMETER 3-BLADE		4-BLADE			
Dia.	Rot. Pitch	Part #	Dia.	Rot. Pitch	Part #	Dia.	Rot. Pitch
14'-17' - AL, SK			10.7	R	16.4	3	353-64108-0
13'-15' - AL, SK							⊗ 142008
12'-14' - AL, SK							⊗ 933317

Drop-In Hub
Use XHS® Hub Kit
112

Refer to Pages 47-48 for Details on Hub Kit Components.

Rubber Hub Bushing

Drop-In Hub
Use XHS® Hub Kit
112

Refer to Pages 47-48 for Details on Hub Kit Components.

Drop-In Hub
Use XHS® Hub Kit
112

Refer to Pages 47-48 for Details on Hub Kit Components.

* May interfere with trim tab.

NISSAN / TOHATSU



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

⊗ Limited Inventory Item.

60-140 HORSEPOWER • 4-1/4" GEARCASE

Thru Hub Exhaust & 15 Tooth Spline

60C (Large Gearcase) Thru 1999	90 HP..... 1987-2001	120 HP 1988-2003
70C (Large Gearcase) Thru 2002	90 HP TLDI..... 2001 & Newer	140 HP 1988-2003
70 HP TLDI..... 2002-2009	115 HP..... 1992-2001	
75 HP TLDI..... 2010 & Newer	115 HP TLDI..... 2004 & Newer	


															
3-BLADE ALUMINUM					4-BLADE ALUMINUM					STAINLESS STEEL PROPELLERS					
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
14	R	11	3	992209	13-7/8	R	11	4	941411	13-3/8	R	15	3	PT70115P15	993143
13-3/4	R	13	3	992212	13-7/8	R	13	4	941413	13-3/8	L	15	3		993153
13-1/2	R	15	3	992213	13-3/8	R	15	4	941415	13-1/4	R	17	3	NM889610170	993144
13-1/4	R	17	3	992214	13	R	17	4	941417	13-1/4	L	17	3		993154
13	R	19	3	992215	12-1/2	R	19	4	941419	13-1/8	R	19	3		993145
13	R	21	3	992216						13-1/8	L	19	3		993155
										13	R	21	3		993146
										13	L	21	3		993156



Ballistic® High Performance Stainless Steel Propeller

Drop-In Hub
Use XHS II® Hub Kit
209
USE Gearcase Adapter Ring supplied with propeller.
Refer to Pages 47-48 for Details on Hub Kit Components.

Drop-In Hub
Use XHS II® Hub Kit
209
USE Gearcase Adapter Ring supplied with propeller.
Refer to Pages 47-48 for Details on Hub Kit Components.

NEW  **NEW**

STAINLESS STEEL PROPELLERS

Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
13-5/8	R	15	3		933415
13-1/2	R	17	3		933417
13-3/8	R	19	3		933419
13-1/8	R	21	3		933421

Drop-In Hub
Use XHS II® Hub Kit
209

Did You Know?
A little boating each day can go a long way toward reducing stress. In fact, boating is ranked as one of the top three of all stress-relieving activities.







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

60-90 HORSEPOWER • 4-1/4" GEARCASE

Thru Hub Exhaust & 15 Tooth Spline

BFT602014 & Newer BFT75.....2014 & Newer BFT90.....2014 & Newer
 BFW60.....2014 & Newer

																		
3-BLADE ALUMINUM					4-BLADE ALUMINUM					Drop-In Hub	STAINLESS STEEL PROPELLERS						Drop-In Hub	
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #		Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
14	R	11	3	992209	13-7/8	R	11	4	941411	Use XHS II® Hub Kit 207 USE Gearcase Adapter Ring supplied with propeller. Refer to Pages 47-48 for Details on Hub Kit Components.	13-3/8	R	15	3	58133-ZW1-A15P	993143	Use XHS II® Hub Kit 207 USE Gearcase Adapter Ring supplied with propeller. Refer to Pages 47-48 for Details on Hub Kit Components.	
13-3/4	R	13	3	992212	13-7/8	R	13	4	941413		13-3/8	L	15	3		993153		
13-1/2	R	15	3	992213	13-3/8	R	15	4	941415		13-1/4	R	17	3		993144		
											13-1/4	L	17	3		993154		
13-1/4	R	17	3	992214	13	R	17	4	941417		13-1/8	R	19	3		993145		
											13-1/8	L	19	3		993155		
13	R	19	3	992215	12-1/2	R	19	4	941419		13	R	21	3		993146		
											13	L	21	3		993156		
13	R	21	3	992216														
Boat Description/Length							Rubber Hub Bushing							Drop-In Hub				
	ALUMINUM PROPELLERS							STAINLESS STEEL PROPELLERS										
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		3-BLADE BALLISTIC			3-BLADE BALLISTIC XL							
	Dia.	Rot.	Pitch	Bld #	Part #			Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #	
25' & Up - AL	14	R	10	3		031061												
25' & Up - AL	14	R	11	3	58130-ZW1-011AH	031154												
Pontoon	14	R	11	3		☛ ☞ 031200												
25' & Up - AL	14	R	12	3		☞ 031060												
22' & Up	14	R	13	3	58130-ZW1-013AH	031155												
Pontoon	14	R	13	3		☛ ☞ 031202												
19'-24' - AL, SK	13-3/4	R	15	3	58130-ZW1-015AH	031141			13-5/8	R	15	3	☛ 933415					
17'-20' - AL, SK	13-1/4	R	17	3	58130-ZW1-017AH	031142			13-1/2	R	17	3	☛ 933417					
16'-19' - AL, SK	13	R	19	3	58130-ZW1-019AH	031143			13-3/8	R	19	3	☛ 933419					
15'-18' - AL, SK	13	R	21	3	58130-ZW1-021AH	031144			13-1/8	R	21	3	☛ 944341	13-1/2	R	22	3	☛ 953422
Up to 17' - LL	12-1/2	R	23	3	58130-ZW1-W512A	☛ 031045							13-1/2	R	24	3	☛ 953424	

* May interfere with trim tab.

NISSAN / TOHATSU



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

115-250 HORSEPOWER • 4-3/4" GEARCASE

Thru Hub Exhaust & 15 Tooth Spline

BFT1152014 & Newer
BFT1502014 & Newer

BFT200.....2014 & Newer
BFT225.....2014 & Newer

BFT2502014 & Newer



3-BLADE ALUMINUM					4-BLADE ALUMINUM				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
16	R	13	3	992001					
15-1/4	R	15	3	992002					
NEW 16	R	16	3	931516					
15	R	17	3	992003	15	R	16	4	992202
14-1/2	R	19	3	992004	14-1/2	R	18	4	992203
14-1/4	R	21	3	992005	14	R	20	4	992204
14	R	23	3	992006					

Drop-In Hub

Use XHS II® Hub Kit

207

Refer to Pages 47-48 for Details on Hub Kit Components.

STD. 3-BLADE				LG DIAMETER 3-BLADE				4-BLADE			
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #
14-3/8	R	15	993042								
14-3/8	L	15	993052								
14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203
14-1/4	L	17	993053	15-1/2	L	17	993033	14-5/8	L	16	993213
14-1/8	R	19	993044	15-1/4	R	19	993024	14-3/8	R	18	993204
14-1/8	L	19	993054	15-1/4	L	19	993034	14-3/8	L	18	993214
14	R	21	993045	14-3/4	R	21	993025	14-1/8	R	20	993205
14	L	21	993055	14-3/4	L	21	993035	14-1/8	L	20	993215
13-7/8	R	23	993046	14-5/8	R	23	993026	14	R	22	993206
13-7/8	L	23	993056	14-5/8	L	23	993036	14	L	22	993216

Drop-In Hub

Use XHS II® Hub Kit

207

Refer to Pages 47-48 for Details on Hub Kit Components.



Boat Description/ Length	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
CR, HB	16	R	13	3	58130-ZY3-013A	031022
21'-24' - AL	15-1/4	R	15	3	58130-ZY3-015A	031023
20'-23' - AL, SK	16	R	16	3		031051
19'-23' - AL, SK	14-1/2	R	17	3	58130-ZY3-017A	031024
19'-23' - AL, SK	15	R	17	3		031064
19'-22' - AL, SK	15-1/2	R	18	3		031052
18'-22' - AL, SK	14	R	19	3	58130-ZY3-019A	031025
18'-22' - AL, SK	14-1/2	R	19	3		031065
18'-20' - AL, SK	13-3/4	R	21	3	58130-ZY3-021A	031026
18'-20' - AL, SK	14-1/4	R	21	3		031066
17'-20' - AL, SK						
17'-20' - AL, SK						
Up to 18'						
High Performance						
High Performance						
High Perf. (EFI)						
4-BLADE MICHIGAN MATCH						
21'-24' - AL, SK	15	R	16	4		031080
19'-23' - AL, SK	14-1/2	R	18	4		031082
18'-20' - AL, SK	14	R	20	4		031084

Rubber Hub Bushing

STAINLESS STEEL PROPELLERS									
3-BLADE BALLISTIC					3-BLADE BALLISTIC XL				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14-7/8	R	15	3	933515					
14-3/4	R	17	3	933517					
14-3/4	L	17	3	937517					
14-1/2	R	19	3	933519					
14-1/2	L	19	3	937519					
14-3/8	R	21	3	933521					
14-3/8	L	21	3	937521					
14-1/4	R	23	3	933523					
14-1/4	L	23	3	937523					
14-1/4	R	25	3	933525					
					14-3/4	R	22	3	953522
					14-3/4	R	24	3	953524
					14-3/4	R	26	3	953526

Drop-In Hub

Use XHS II® Hub Kit

207

Refer to Pages 47-48 for Details on Hub Kit Components.

NISSAN / TOHATSU

8-20 HORSEPOWER • 2-1/2" GEARCASE

Thru Hub Exhaust & 10 Tooth Spline

DF 8A 4-Stroke .....2011 & Newer	DF 9.9A 4-Stroke .....2010 & Newer	DF 15 4-Stroke .....1996 & Newer
DT 9.9 .....1983-1987	DT 15 .....1983-1988	DF 15A 4-Stroke +2013 & Newer
DF 9.9 4-Stroke .....1996 & Newer	DT 15C .....1989-1997	DF 20A 4-Stroke +2013 & Newer

Boat Description/ Length	MICHIGAN MATCH REPLACEMENT PROPELLERS					
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
14'-19' - AL	9-1/4	R	9	3	58100-93763-019	*062103
14'-19' - AL	9-1/4	R	10	3	58100-93773-019	*062104
14'-16' - LL	9-1/4	R	11	3	58100-93743-019	062105



Rubber
Hub
Bushing

* Standard replacement for DF 15A 4-Stroke is 062103. Standard replacement for DF 20A 4-Stroke is 062104.

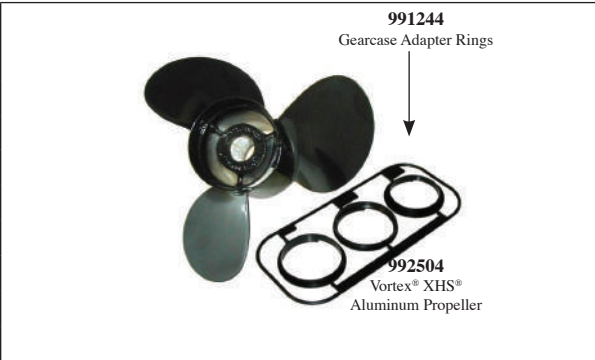
20-30 HORSEPOWER • 3" GEARCASE

Thru Hub Exhaust & 10 Tooth Spline • **!** MUST use Gearcase Adapter Ring supplied with propeller.

DT 20 ☆1985-1986	DF 25 4-Stroke (Includes V-Twin).....2000 & Newer	DT 30 .....1987-1997
DT 20 .....1987-1988	DF 25R .....2010 & Newer	DT 30C .....1987-1997
DT 25 ☆1985-1986	DF 25A .....2014 & Newer	DF 30 4-Stroke .....2000-2007
DT 25 .....1987-1988	DT 30 ☆1983-1986	DF 30A .....2014 & Newer
DT 25C .....1989-2000		

Boat Description/ Length	VORTEX XHS PERFORMANCE PROPELLERS					
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
20' & Up - AL	10-1/2	R	9	3	58100-96370-019	992501
18'-20' - AL	10-1/2	R	10	3	58100-96470-019	992502
16'-18' - AL	10-1/2	R	11	3	58100-96420-019	992503
14'-16' - AL	10-1/8	R	12	3	58100-96480-019	992504
14'-16' - AL	10-1/8	R	13	3	58100-96490-019	992505
14'-16' - LL	10-1/8	R	14	3		992506

Drop-In
Hub
Use XHS®
Hub Kit
121
!
MUST USE
GEARCASE
ADAPTER RING
SUPPLIED WITH
PROPELLER.



Drop-In
Hub
Use XHS®
Hub Kit
121
!
MUST USE
GEARCASE
ADAPTER RING
SUPPLIED WITH
PROPELLER.

Boat Description/ Length	MICHIGAN MATCH REPLACEMENT PROPELLERS					
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
20' & Up - AL	10-1/4	R	10	3	58100-96470-019	062204
17'-20' - AL	10-1/4	R	11	3	58100-96420-019	*062205
15'-18' - AL	10-1/4	R	12	3	58100-96480-019	062206
13'-15' - AL	10-1/4	R	13	3	58100-96490-019	062207
13'-15' - AL						

Rubber
Hub
Bushing

NEW BALLISTIC XHS STAINLESS STEEL PROPS NEW						
STAINLESS STEEL PROPELLERS						
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	
10-1/8	R	13	3		* 933013	
10-1/8	R	15	3		* 933015	

Drop-In
Hub
Use XHS®
Hub Kit
121
!
MUST USE
GEARCASE
ADAPTER RING
SUPPLIED WITH
PROPELLER.

* Standard replacement for DF 25 & DF 25R 4-Stroke is 062205.

* May interfere with trim tab.





☆ Use stopper 57632-96400 (For rubber hub propeller only)

☆ Use stopper 57632-96400 (For rubber hub propeller only)
+ Suzuki DF15A & DF20A 4-Stroke require OEM Aft Spacer Washer P/N 57633-93901.

35-65 HORSEPOWER • 3-1/4" GEARCASE

Thru Hub Exhaust & 13 Tooth Spline

DT 35C.....1987-1989	DT 50 & 50M 1983-1984	DT 60..... 1983-1984
DT 40.....1983-1998	DF 50 4-Stroke..... 1999-2010	DF 60A 4-Stroke.....2010 & Newer
DF 40 4-Stroke.....1999-2010	DF 50A 4-Stroke .....2010 & Newer	DT 65..... 1985-1997
DF 40A 4-Stroke .....2010 & Newer	DT 55..... 1985-1997	

																				
ALUMINUM PROPELLERS							STAINLESS STEEL PROPELLERS													
3-BLADE			LG. DIAMETER 3-BLADE				4-BLADE				Drop-In Hub									
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #			
								11-1/2	R	8	992401									
				12-1/4	R	9	992601	11-1/2	R	9	992402									
				11-3/4	R	10	992602	11-1/2	R	10	992403									
10-3/8	R	11	992404	11-5/8	R	11	992603					10-3/4	R	12	3		993405			
10-3/8	R	12	992405	11-3/8	R	12	992604					10-1/2	R	13	3		993406			
10-3/8	R	13	992406	11-1/8	R	13	992605					10-3/8	R	14	3		993407			
10-3/8	R	14	992407	11-1/4	R	14	992606					10-1/8	R	15	3		993408			
10	R	15	992408																	
10	R	16	992409																	
														Drop-In Hub						
														ALUMINUM PROPELLERS							STAINLESS STEEL PROPELLERS
Boat Description/Length							Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
18'-21' - AL							12-1/4	R	9	3		032046								
18'-21' - AL							11-3/4	R	10	3	58100-88L10-019	032045								
17'-19' - AL							11-5/8	R	11	3	58100-88L21-019	032044								
16'-18' - LL							11-3/8	R	12	3	58100-88L31-019	032043								
14'-16' - LL							11-1/8	R	13	3	58100-88L41-019	032042	10-1/8	R	13	3		933213		
12'-14' - LL							11-1/4	R	14	3	58100-88L51-019	032041								
12'-14' - LL							11	R	15	3	58100-88L61-019	032040	10-1/8	R	15	3		933215		

Drop-In Hub
Use XHS® Hub Kit
115
Refer to Pages 47-48 for Details on Hub Kit Components.

Rubber Hub Bushing

Drop-In Hub
Use XHS® Hub Kit
115
Refer to Pages 47-48 for Details on Hub Kit Components.

Drop-In Hub
Use XHS® Hub Kit
115
Refer to Pages 47-48 for Details on Hub Kit Components.



Did You Know?



According to a consumer survey, the average life of an aluminum propeller on a motor greater than 100 HP is 2-3 years before it is damaged beyond repair. The average life of a stainless steel propeller is more than 6 years, under the same conditions.





60-140 HORSEPOWER • 4-1/4" GEARCASE

Thru Hub Exhaust & 13 Tooth Spline

DF 60 4-Stroke.....1998-2009	DT 85.....1979-2000	DT 115.....1981-2001
DF 70 4-Stroke.....1998-2008	DT 90.....1989-1997	DT 140.....1981-2001
DT 75.....1983-1997	DT 100.....1989-2000	

															
3-BLADE ALUMINUM					4-BLADE ALUMINUM					STAINLESS STEEL PROPELLERS					
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
14	R	11	3	992209	13-7/8	R	11	4	941411						
13-3/4	R	13	3	992212	13-7/8	R	13	4	941413						
13-1/2	R	15	3	992213	13-3/8	R	15	4	941415	13-3/8	R	15	3		993143
										13-3/8	L	15	3		993153
13-1/4	R	17	3	992214	13	R	17	4	941417	13-1/4	R	17	3		993144
										13-1/4	L	17	3		993154
13	R	19	3	992215	12-1/2	R	19	4	941419	13-1/8	R	19	3		993145
										13-1/8	L	19	3		993155
13	R	21	3	992216						13	R	21	3		993146
										13	L	21	3		993156

Boat Description/Length						
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
CR, HB	14	R	11	3		061107
22' & Up	13-3/4	R	13	3	58100-99E00-019	061105
19'-22' - AL, SK	13-1/2	R	15	3	58100-94500-019	061101
18'-21' - AL, SK	13-1/4	R	17	3	58100-94512-019	061102
17'-20' - AL, SK	13	R	19	3	58100-94522-019	061103
15'-18' - AL, SK	13	R	21	3	58100-94532-019	061104

											
ALUMINUM PROPELLERS						STAINLESS STEEL PROPELLERS					
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
						13-5/8	R	15	3		933415
						13-1/2	R	17	3		933417
						13-3/8	R	19	3		933419
						13-1/8	R	21	3		933421

Drop-In Hub
Use XHS II® Hub Kit
210
Do NOT use Gearcase Adapter Ring supplied with propeller.
Refer to Pages 47-48 for Details on Hub Kit Components.

Drop-In Hub
Use XHS II® Hub Kit
210
Do NOT use Gearcase Adapter Ring supplied with propeller.
Refer to Pages 47-48 for Details on Hub Kit Components.

Rubber Hub Bushing

Drop-In Hub
Use XHS II® Hub Kit
210
Do NOT use Gearcase Adapter Ring supplied with propeller.



Did You Know?

The proper propeller will be more fuel efficient than you may realize. Outboard motors are designed to run in a specific RPM range at wide open throttle to achieve maximum power and efficiency. If the motor cannot reach the RPM range, then it is not reaching its full potential and is going to be inefficient.





70-140 HORSEPOWER (4-STROKE) • 4-1/4" GEARCASE



Thru Hub Exhaust & 15 Tooth Spline

DF 70A 4-Stroke2009 & Newer
 DF 80A 4-Stroke2009 & Newer
 DF 90 4-Stroke2001-2008

DF 90A 4-Stroke2009 & Newer
 DF 100 4-Stroke2009 & Newer
 DF 115 4-Stroke2001-2012

DF 115A 4-Stroke2013 & Newer
 DF 140 4-Stroke2002-2012
 DF 140A 4-Stroke2013 & Newer

										Drop-In Hub							Drop-In Hub
3-BLADE ALUMINUM					4-BLADE ALUMINUM					Use XHS II® Hub Kit 225 / 226 / 227* USE Gearcase Adapter Ring supplied with propeller. Refer to Pages 47-48 for Details on Hub Kit Components.	STAINLESS STEEL PROPELLERS						Use XHS II® Hub Kit 225 / 226 / 227* USE Gearcase Adapter Ring supplied with propeller. Refer to Pages 47-48 for Details on Hub Kit Components.
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #		Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	
14	R	11	3	992209	13-7/8	R	11	4	941411								
13-3/4	R	13	3	992212	13-7/8	R	13	4	941413								
13-1/2	R	15	3	992213	13-3/8	R	15	4	941415	13-3/8	R	15	3		993143		
										13-3/8	L	15	3		993153		
13-1/4	R	17	3	992214	13	R	17	4	941417	13-1/4	R	17	3		993144		
										13-1/4	L	17	3		993154		
13	R	19	3	992215	12-1/2	R	19	4	941419	13-1/8	R	19	3		993145		
										13-1/8	L	19	3		993155		
13	R	21	3	992216						13	R	21	3		993146		
										13	L	21	3		993156		

Boat Description/ Length							Rubber Hub Bushing									Drop-In Hub Use XHS II® Hub Kit 225 / 226 / 227* USE Gearcase Adapter Ring supplied with propeller.		
	ALUMINUM PROPELLERS							3-BLADE BALLISTIC				3-BLADE BALLISTIC XL						
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		Dia.	Rot.	Pitch	Bld #	Part #		Dia.	Rot.	Pitch	Bld #	Part #
20'-24' - AL, SK	14	R	15	3	58100-90J41-019	061020		13-5/8	R	15	3	933415						
17'-19' - AL, SK	14	R	17	3	58100-90J01-019	061024		13-1/2	R	17	3	933417						
16'-18' - AL, SK	14	R	19	3	58100-90J11-019	061028		13-3/8	R	19	3	933419						
15'-18' - AL, SK	14	R	21	3	58100-90J21-019	061032		13-1/8	R	21	3	933421	13-1/2	R	22	3		953422
													13-1/2	R	24	3		953424

Note: For DF 90 / DF 100 / DF 115 HP 4-Stroke engine applications use XHS II® (Drop-In Hub) Kit #225.
 For DF 115A / DF 140 HP / DF 140A 4-Stroke engine applications use XHS II® (Drop-In Hub) Kit #226.
 For DF 70A / 80A / 90A applications use XHS II® (Drop-In Hub) Kit #227.

Did You Know?

A motor that should turn 6000 RPM at WOT, but can only achieve 4500, is likely over-pitched. The motor is working too hard to turn 4500 RPM, burning more fuel than you think.



150-300 HORSEPOWER • 4-3/4" GEARCASE

Thru Hub Exhaust & 15 Tooth Spline

DT 1501986-2003
 DF 150 4-Stroke2006 & Newer
 DF 150TG2014 & Newer
 DT 1751987-1992
 DF 175 4-Stroke2006 & Newer
 DT 175TG2014 & Newer

DT 200 1986-2000
 DF 200 4-Stroke ①2004 & Newer
 DT 225 1986-2003
 DF 225 4-Stroke ①2004 & Newer

DF 250 4-Stroke ①2004 & Newer
 DF 250AP 4-Stroke ①2014 & Newer
 DF 300 4-Stroke ①2007 & Newer
 DF 300AP 4-Stroke ①2014 & Newer

① Listed propeller diameters are slightly less than original equipment propeller.

*For engines 300 HP or higher, use "High Horsepower Sleeve" (P/N 991372). See Page 43 for more details.



3-BLADE ALUMINUM					4-BLADE ALUMINUM				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
16	R	13	3	992001					
15-1/4	R	15	3	992002					
NEW 16	R	16	3	931516					
15	R	17	3	992003	15	R	16	4	992202
14-1/2	R	19	3	992004	14-1/2	R	18	4	992203
14-1/4	R	21	3	992005	14	R	20	4	992204
14	R	23	3	992006					

Drop-In Hub
 Use XHS II® Hub Kit
204
 Refer to Pages 47-48 for Details on Hub Kit Components.

STD. 3-BLADE				LG DIAMETER 3-BLADE				4-BLADE			
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #
14-3/8	R	15	993042								
14-3/8	L	15	993052								
14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203
14-1/4	L	17	993053	15-1/2	L	17	993033	14-5/8	L	16	993213
14-1/8	R	19	993044	15-1/4	R	19	993024	14-3/8	R	18	993204
14-1/8	L	19	993054	15-1/4	L	19	993034	14-3/8	L	18	993214
14	R	21	993045	14-3/4	R	21	993025	14-1/8	R	20	993205
14	L	21	993055	14-3/4	L	21	993035	14-1/8	L	20	993215
13-7/8	R	23	993046	14-5/8	R	23	993026	14	R	22	993206
13-7/8	L	23	993056	14-5/8	L	23	993036	14	L	22	993216

Drop-In Hub
 Use XHS II® Hub Kit
204
 Refer to Pages 47-48 for Details on Hub Kit Components.



NEW **BALLISTIC** **NEW**
 STAINLESS STEEL PROPELLERS

3-BLADE BALLISTIC					3-BLADE BALLISTIC XL				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14-7/8	R	15	3	* 933515					
14-3/4	R	17	3	* 933517					
14-3/4	L	17	3	* 937517					
14-1/2	R	19	3	* 933519					
14-1/2	L	19	3	* 937519					
14-3/8	R	21	3	* 933521					
14-3/8	L	21	3	* 937521					
14-1/4	R	23	3	* 933523					
14-1/4	L	23	3	* 937523					
14-1/4	R	25	3	* 933525					
					14-3/4	R	22	3	* 953522
					14-3/4	R	24	3	* 953524
					14-3/4	R	26	3	* 953526



Drop-In Hub
 Use XHS II® Hub Kit
204
 Refer to Pages 47-48 for Details on Hub Kit Components.

* May interfere with trim tab.

6-8 HORSEPOWER

Thru Hub Exhaust & 7 Tooth Spline • Replaces Yamaha® “N” Series Propellers



6 HP 2-Stroke1986-2000 8 HP 2-Stroke 1986-2009 F9.9 4-Stroke2008 & Newer
 F6 4-Stroke.....2001-2010 F8 4-Stroke2001 & Newer

Boat Description/ Length							 102002	Rubber Hub Bushing
	ALUMINUM PROPELLERS							
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
General Usage	8-1/2	R	7-1/2	3	6G1-45943-00-EL	102002		

8 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive



8 HP.....1976-1983

Boat Description/ Length							 012008	Rubber Hub Bushing
	ALUMINUM PROPELLERS							
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
14'-16' - AL	8-1/4	R	8	3		012008		

9.9-20 HORSEPOWER • 2-1/2” GEARCASE

Thru Hub Exhaust & 8 Tooth Spline • Replaces Yamaha® “J” Series Propellers



9.9 HP 2-Stroke1984-2009 15 HP 2-Stroke 1984-2009 F15 C2007 & Newer
 F9.9 4-Stroke.....2000-2007 F15 4-Stroke1998 & Newer F20 4-Stroke2007 & Newer

Boat Description/ Length							 102003	Rubber Hub Bushing
	ALUMINUM PROPELLERS							
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
13'-17' - HL	9-1/4	R	8	3	63V-45947-00-00	102003		
12'-15' - AL	9-1/4	R	9	3	63V-45945-10-00	102004		
12'-15' - AL	9-1/4	R	10-1/2	3	683-45943-00-00	102005		

15-28 HORSEPOWER

Non-Thru Hub Exhaust & Pin Drive

15A & W15 HP1976-1983 25 HP 2 Cyl. 1977-1979 28 HP 1976-1978
 20 HP.....1976-1978

Boat Description/ Length							 012011	Rubber Hub Bushing
	ALUMINUM PROPELLERS							
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		
HB, SB	9-1/4	R	7	3	650-45943-01-36	012102		
12'-14' - HL	9	R	9	3		012109		
12'-14' - HL	9	R	10	3	651-45947-00-36	012011		
12'-14' - AL	9-1/4	R	11	3	653-45941-01-36	012013		



Did You Know?

During National Fishing and Boating week, most states offer free fishing days.

These are days when anglers are able to fish on public bodies of water without a fishing license.



50-130 HORSEPOWER • 4-1/4" GEARCASE



Thru Hub Exhaust & 15 Tooth Spline • Replaces Yamaha® "K" Series Propellers


T50 HP 1996 & Newer
 T60 HP 2003 & Newer
 60 HP (Includes C60/E60/P60) 1992-2005
 F70 4-Stroke 2010 & Newer
 70 HP 1984 & Newer
 F75 4-Stroke 2003 & Newer

75 HP (Includes C75/E75/P75) 1994-1999
 80 HP 1997
 F80 4-Stroke 1999-2002
 85 HP 1991-1997
 F90 4-Stroke 1999 & Newer

90 HP (Includes C90) 1984 & Newer
 F100 4-Stroke 1999-2002
 F115 4-Stroke 2000 & Newer
 115 HP (Includes C115/P115) 1984 & Newer
 130 HP 1984-2003

※ Trim Tab 6E5-45371-10-00 is required when using stainless steel propellers on Yamaha engines, 50-130 HP.

										Drop-In Hub Use XHS II® Hub Kit 203 / 208 USE Gearcase Adapter Ring supplied with propeller. Refer to Pages 47-48 for Details on Hub Kit Components.							Drop-In Hub Use XHS II® Hub Kit 203 / 208 USE Gearcase Adapter Ring supplied with propeller. Refer to Pages 47-48 for Details on Hub Kit Components.
3-BLADE ALUMINUM					4-BLADE ALUMINUM						STAINLESS STEEL PROPELLERS						
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #		Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	
14	R	11	3	992209	13-7/8	R	11	4	941411								
13-3/4	R	13	3	992212	13-7/8	R	13	4	941413								
13-1/2	R	15	3	992213	13-3/8	R	15	4	941415	13-3/8	R	15	3		※ 993143		
										13-3/8	L	15	3		※ 993153		
13-1/4	R	17	3	992214	13	R	17	4	941417	13-1/4	R	17	3	688-45930-02-00	※ 993144		
										13-1/4	L	17	3		※ 993154		
13	R	19	3	992215	12-1/2	R	19	4	941419	13-1/8	R	19	3	688-45970-03-00	※ 993145		
										13-1/8	L	19	3		※ 993155		
13	R	21	3	992216						13	R	21	3	688-45972-02-00	※ 993146		
										13	L	21	3		※ 993156		

Boat Description/ Length							Rubber Hub Bushing											Drop-In Hub Use XHS II® Hub Kit 203 / 208 USE Gearcase Adapter Ring supplied with propeller. Refer to Pages 47-48 for Details on Hub Kit Components.
	ALUMINUM PROPELLERS							STAINLESS STEEL PROPELLERS										
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		3-BLADE BALLISTIC					3-BLADE BALLISTIC XL					
Dia.	Rot.	Pitch	Bld #	Part #		Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #			
25' & Up- AL	14	R	11	3		101136												
22'-25' - AL	13-5/8	R	13	3	6E5-45949-00-00	◆ 101031												
22'-25' - AL	13-3/4	R	13	3		101131												
20'-24' - AL	13-1/2	R	15	3	6E5-45947-00-00	◆ 101032												
20'-24' - AL	13-1/2	R	15	3		101132												
17'-19' - AL	13-1/4	R	17	3	6E5-45945-01-00	◆ 101033												
17'-19' - AL	13-1/4	R	17	3		101133												
16'-18' - AL	13	R	19	3	6E5-45941-00-00	◆ 101034												
16'-18' - AL	13	R	19	3		101134												
15'-18' - AL	13	R	21	3		101135												
High Performance														13-1/2	R	22	3	※ 953422
High Performance														13-1/2	R	24	3	※ 953424

※ May interfere with trim tab.

Note: For 115 HP, F115 (4-Stroke), and 130 HP engine applications use XHS II® (Drop-In Hub) Kit #203.
 For all other engine applications use XHS II® (Drop-In Hub) Kit #208.

80-140 HORSEPOWER

Thru Hub Exhaust & 15 Tooth Spline

80 HP 1977-1983

90 & 115 HP 1978-1983

140 HP 1978-1979

See Mercury® 40-140 HP Product Offering on Page 23.

150-175 HORSEPOWER

Thru Hub Exhaust & 15 Tooth Spline

150 HP 1979-1983

175 HP 1978-1979

See Mercury® V-6 Product Offering on Page 24.

◆ OEM-equivalent blade geometry.

※ To avoid damage or injury, replace standard trim tab with trim tab 6E5-45371-10-00.

150-300 HORSEPOWER • 4-3/4" GEARCASE

Thru Hub Exhaust & 15 Tooth Spline • Replaces Yamaha® "M" or "T" Series Propellers

150 HP.....	1986 & Newer
F150 4-Stroke.....	2004 & Newer
175 HP.....	1984 & Newer
F175 4-Stroke.....	2014 & Newer
200 HP.....	1984 & Newer
200 HP V MAX®.....	2001
F200 4-Stroke.....	2002 & Newer
VF200 V MAX® SHO.....	2010 & Newer

220 HP (Special)	1984-1985
225 HP (Excel)	1987-1988
225 HP.....	1986 & Newer
F225 4-Stroke.....	2002 & Newer
VF225 V MAX® SHO	2010 & Newer
F225 Offshore	2010 & Newer
250 HP.....	1990 & Newer
250 HP V MAX®	2001

F250 4-Stroke	2002 & Newer
VF250 V MAX® SHO	2010 & Newer
F250 Offshore.....	2010 & Newer
300 HP	2004-2007
F300 Offshore.....	2010 & Newer

*For engines 300 HP or higher, use "High Horsepower Sleeve" (P/N 991372). See Page 43 for more details.



3-BLADE ALUMINUM					4-BLADE ALUMINUM				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
16	R	13	3	992001					
15-1/4	R	15	3	992002					
NEW 16	R	16	3	931516					
15	R	17	3	992003	15	R	16	4	992202
14-1/2	R	19	3	992004	14-1/2	R	18	4	992203
14-1/4	R	21	3	992005	14	R	20	4	992204
14	R	23	3	992006					

Drop-In Hub
Use XHS II® Hub Kit
203
Refer to Pages 47-48 for Details on Hub Kit Components.

STD. 3-BLADE				LG DIAMETER 3-BLADE				4-BLADE			
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #
14-3/8	R	15	993042								
14-3/8	L	15	993052								
14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203
14-1/4	L	17	993053	15-1/2	L	17	993033	14-5/8	L	16	993213
14-1/8	R	19	993044	15-1/4	R	19	993024	14-3/8	R	18	993204
14-1/8	L	19	993054	15-1/4	L	19	993034	14-3/8	L	18	993214
14	R	21	993045	14-3/4	R	21	993025	14-1/8	R	20	993205
14	L	21	993055	14-3/4	L	21	993035	14-1/8	L	20	993215
13-7/8	R	23	993046	14-5/8	R	23	993026	14	R	22	993206
13-7/8	L	23	993056	14-5/8	L	23	993036	14	L	22	993216

Drop-In Hub
Use XHS II® Hub Kit
203
Refer to Pages 47-48 for Details on Hub Kit Components.



Boat Description/ Length	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
20'-22' - AL, SK	15-1/4	R	15	3	6G5-45941-00-00	101025
19'-21' - AL, SK	14-1/2	R	17	3	6G5-45947-01-00	101027
19'-21' - AL, SK						
18'-20' - AL, SK	14	R	19	3	6G5-45945-01-00	101028
18'-20' - AL, SK						
18'-20' - AL, SK	13-3/4	R	21	3	6G5-45943-01-00	101029
18'-20' - AL, SK						
Up to 18' - AL, SK						
Up to 18' - AL, SK						
Up to 18' - AL, SK						
High Performance						
High Performance						
High Performance						

Rubber Hub Bushing

STAINLESS STEEL PROPELLERS									
3-BLADE BALLISTIC					3-BLADE BALLISTIC XL				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14-7/8	R	15	3	933515					
14-3/4	R	17	3	933517					
14-3/4	L	17	3	937517					
14-1/2	R	19	3	933519					
14-1/2	L	19	3	937519					
14-3/8	R	21	3	933521					
14-3/8	L	21	3	937521					
14-1/4	R	23	3	933523					
14-1/4	L	23	3	937523					
14-1/4	R	25	3	933525					
					14-3/4	R	22	3	* 953522
					14-3/4	R	24	3	* 953524
					14-3/4	R	26	3	* 953526

Drop-In Hub
Use XHS II® Hub Kit
203
Refer to Pages 47-48 for Details on Hub Kit Components.

* May interfere with trim tab.

Did You Know?

Difficulty to plane, decrease in fuel economy, and drop in top-end speed are signs that it might be time to replace the propeller.

YAMAHA STERNDRIVES • 4-3/4" GEARCASE

Thru Hub Exhaust & 15 Tooth Spline

3.0 L (130 HP) EST/PSR1989-1993
 4.3 L (205 HP) EST/PSR/YEMS 1989-1993

5.0 L (205 HP) EST/PSR/YEMS 1989-1993
 5.7 L (260 HP) EST/PSR/YEMS 1989-1993

7.4 L (300 HP*) Hydra Drive EST 1992-1993
 *For engines 300 HP or higher, use "High Horsepower Sleeve" (P/N 991372). See Page 43 for more details.



3-BLADE ALUMINUM

4-BLADE ALUMINUM

STD. 3-BLADE

LG DIAMETER 3-BLADE

4-BLADE

Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
16	R	13	3	992001					
15-1/4	R	15	3	992002					
NEW 16	R	16	3	931516					
15	R	17	3	992003	15	R	16	4	992202
14-1/2	R	19	3	992004	14-1/2	R	18	4	992203
14-1/4	R	21	3	992005	14	R	20	4	992204
14	R	23	3	992006					

Drop-In Hub

Use XHS II® Hub Kit

203

Refer to Pages 47-48 for Details on Hub Kit Components.

Drop-In Hub

Use XHS II® Hub Kit

Drop-In Hub

Use XHS II® Hub Kit

203

Refer to Pages 47-48 for Details on Hub Kit Components.

Boat Description/Length



ALUMINUM PROPELLERS

Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
21"-26" (18-31 MPH)	R	15	3	6G5-45941-00-98	101025
19"-23" (27-37 MPH)	R	17	3	6G5-45947-01-98	101027
19"-23" (27-37 MPH)					
17"-21" (33-42 MPH)	R	19	3	6G5-45945-01-98	101028
17"-21" (33-42 MPH)					
18"-19" (37-46 MPH)	R	21	3	6G5-45943-01-98	101029
18"-19" (37-46 MPH)					
17"-19" (39-48 MPH)					
17"-19" (39-48 MPH)					

Rubber Hub Bushing



STAINLESS STEEL PROPELLERS

Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
14-7/8	R	15	3		933515
14-3/4	R	17	3		933517
14-3/4	L	17	3		937517
14-1/2	R	19	3		933519
14-1/2	L	19	3		937519
14-3/8	R	21	3		933521
14-3/8	L	21	3		937521
14-1/4	R	23	3		933523
14-1/4	L	23	3		937523

Drop-In Hub

Use XHS II® Hub Kit

203

Refer to Pages 47-48 for Details on Hub Kit Components.

MERCURISER®, ALPHA ONE™, BRAVO ONE™ • 4-3/4" GEARCASE

Thru Hub Exhaust & 15 Tooth Spline

MODELS 1A, 1B, 1C.....Thru 1982
 MODELS 120, 140, 145 DTS.....Thru 1982
 MODELS 165, 228, 470, 485, 888, 898 ...Thru 1982
 MODELS 225S, 233, 255TRS.....Thru 1982
 MODELS 260, 280TRS, 330TRSThru 1982
 120-190 HP Mercruiser®.....1983-1985
 200-260 HP Mercruiser®.....1983-1985

Alpha One™
 2.5L - 5.7L Alpha One™
 6.2L MPI Alpha One™
 262, 350, 454 Magnum
 320 EFI Alpha One™

All Years
 All Years
 All Years
 All Years

Bravo One™ (Bravo One™ & Bravo One™ X Drives only)
 320 EFI, 350, 377All Years
 5.0L - 7.4L Bravo One™All Years
 D2.8L - D7.3L (Diesel).....All Years

*For engines 300 HP or higher, use "High Horsepower Sleeve" (P/N 991372). See Page 43 for more details.



3-BLADE ALUMINUM

4-BLADE ALUMINUM

STD. 3-BLADE

LG DIAMETER 3-BLADE

4-BLADE

Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Part #
16	R	13	3	992001				
15-1/4	R	15	3	992002				
16	R	16	3	931516				
15	R	17	3	992003	15	R	16	4 992202
14-1/2	R	19	3	992004	14-1/2	R	18	4 992203
14-1/4	R	21	3	992005	14	R	20	4 992204
14	R	23	3	992006				

Drop-In Hub
 Use XHS II® Hub Kit
202
 Refer to Pages 47-48 for Details on Hub Kit Components.

Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #
14-3/8	R	15	993042								
14-3/8	L	15	993052								
14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203
14-1/4	L	17	993053	15-1/2	L	17	993033	14-5/8	L	16	993213
14-1/8	R	19	993044	15-1/4	R	19	993024	14-3/8	R	18	993204
14-1/8	L	19	993054	15-1/4	L	19	993034	14-3/8	L	18	993214
14	R	21	993045	14-3/4	R	21	993025	14-1/8	R	20	993205
14	L	21	993055	14-3/4	L	21	993035	14-1/8	L	20	993215
13-7/8	R	23	993046	14-5/8	R	23	993026	14	R	22	993206
13-7/8	L	23	993056	14-5/8	L	23	993036	14	L	22	993216

Drop-In Hub
 Use XHS II® Hub Kit
202
 Refer to Pages 47-48 for Details on Hub Kit Components.



ALUMINUM PROPELLERS

STAINLESS STEEL PROPELLERS

Boat Description/Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
CR, HB	16	R	13	3	48-78114A45	031022
21'-24' - AL	15-1/4	R	15	3	48-78116A45	031023
20'-23' - AL, SK	16	R	16	3	48-16440A45	031051
19'-23' - AL, SK	14-1/2	R	17	3	48-78118A40	031024
19'-23' - AL, SK	15	R	17	3	48-832828A45	031064
19'-22' - AL, SK	15-1/2	R	18	3	48-11324A45	031052
18'-22' - AL, SK	14	R	19	3	48-78120A40	031025
18'-22' - AL, SK	14-1/2	R	19	3	48-832830A45	031065
18'-20' - AL, SK	13-3/4	R	21	3	48-78122A40	031026
18'-20' - AL, SK	14-1/4	R	21	3	48-832832A45	031066
17'-20' - AL, SK						
17'-20' - AL, SK						
Up to 18'						
High Performance						
High Performance						
High Performance						
4-BLADE MICHIGAN MATCH						
21'-24' - AL, SK	15	R	16	4	48-834850A45	031080
19'-23' - AL, SK	14-1/2	R	18	4	48-834852A45	031082
18'-20' - AL, SK	14	R	20	4	48-834854A45	031084

Rubber Hub Bushing
 Use MWM Kit 990312 (Conductivity Washer, Aft Washer) or MWM Kit 9661-1 (Fwd Washer, Conductivity Washer, Aft Washer, Tab Washer, Propeller Nut)
 See Page 24 for details.

3-BLADE BALLISTIC		3-BLADE BALLISTIC XL							
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14-7/8	R	15	3	933515					
14-3/4	R	17	3	933517					
14-3/4	L	17	3	937517					
14-1/2	R	19	3	933519					
14-1/2	L	19	3	937519					
14-3/8	R	21	3	933521					
14-3/8	L	21	3	937521					
14-1/4	R	23	3	933523					
14-1/4	L	23	3	937523					
14-1/4	R	25	3	933525					
					14-3/4	R	22	3	953522
					14-3/4	R	24	3	953524
					14-3/4	R	26	3	953526

Drop-In Hub
 Use XHS II® Hub Kit
202
 Refer to Pages 47-48 for Details on Hub Kit Components.

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

◊ These applications will require an anode plate 76214Q5 (Quicksilver® Part Number).
 * When using these propellers, to avoid damage or injury, replace standard trim tab with trim tab 822777A1.

BRAVO ONE™ • OVER 365 HP • (SOLID HUB) • 4-3/4" GEARCASE

Thru Hub Exhaust & 15 Tooth Spline

454 Magnum (385 HP)1995 & Newer
 496 Magnum (375 HP)All Years

496 Magnum H.O. (425 HP).....All Years
 502 Magnum (390-415 HP).....1990 & Newer

450 HP1995
 465 HP 1991 & 1994



Apollo® XHS®
Stainless Steel Propeller



Ballistic® XHS®
Stainless Steel Propeller



STD. 3-BLADE				LG DIAMETER 3-BLADE				4-BLADE			
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #
14-3/8	R	15	* 993042								
14-3/8	L	15	* 993052								
14-1/4	R	17	* 993043	15-1/2	R	17	∅ 993023	14-5/8	R	16	* 993203
14-1/4	L	17	* 993053	15-1/2	L	17	∅ 993033	14-5/8	L	16	* 993213
14-1/8	R	19	* 993044	15-1/4	R	19	∅ 993024	14-3/8	R	18	* 993204
14-1/8	L	19	* 993054	15-1/4	L	19	∅ 993034	14-3/8	L	18	* 993214
14	R	21	∅ 993045	14-3/4	R	21	∅ 993025	14-1/8	R	20	* 993205
14	L	21	∅ 993055	14-3/4	L	21	∅ 993035	14-1/8	L	20	* 993215
13-7/8	R	23	∅ 993046	14-5/8	R	23	∅ 993026	14	R	22	* 993206
13-7/8	L	23	∅ 993056	14-5/8	L	23	∅ 993036	14	L	22	* 993216

Drop-In Hub
 Use XHS II® Hub Kit
202SH
 Refer to Pages 47-48 for Details on Hub Kit Components.



STAINLESS STEEL PROPELLERS									
3-BLADE BALLISTIC					3-BLADE BALLISTIC XL				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14-7/8	R	15	3	* 933515					
14-3/4	R	17	3	* 933517					
14-3/4	L	17	3	* 937517					
14-1/2	R	19	3	* 933519					
14-1/2	L	19	3	* 937519					
14-3/8	R	21	3	* 933521					
14-3/8	L	21	3	* 937521					
14-1/4	R	23	3	* 933523					
14-1/4	L	23	3	* 937523					
14-1/4	R	25	3	* 933525					
					14-3/4	R	22	3	* 953522
					14-3/4	R	24	3	* 953524
					14-3/4	R	26	3	* 953526

Drop-In Hub
 Use XHS II® Hub Kit
202SH
 Refer to Pages 47-48 for Details on Hub Kit Components.



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

∅ These applications will require an anode plate 76214Q5 (Quicksilver® Part Number).
 * When using Ballistic® and Apollo® propellers, to avoid damage or injury, replace standard trim tab with trim tab 822777A1.

MODEL 400, COBRA® • 4-1/4" GEARCASE

Thru Hub Exhaust & 13 Tooth Spline

Model 400	Cobra®
2.3 L (120 HP) Thru 1991	2.3 L (128 HP) 1988-1991
2.5 L (120 HP) 1978-1984	2.5 L (120 HP) 1985-1987
3.0 L (140 HP) Thru 1989	3.0 L (140 HP) 1985-1987



3-BLADE ALUMINUM					4-BLADE ALUMINUM				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14	R	11	3	992209	13-7/8	R	11	4	941411
13-3/4	R	13	3	992212	13-7/8	R	13	4	941413
13-1/2	R	15	3	992213	13-3/8	R	15	4	941415
13-1/4	R	17	3	992214	13	R	17	4	941417
13	R	19	3	992215	12-1/2	R	19	4	941419
13	R	21	3	992216					

Drop-In Hub
Use XHS II® Hub Kit

206

Do NOT use Gearcase Adapter Ring supplied with propeller.

Refer to Pages 47-48 for Details on Hub Kit Components.

STAINLESS STEEL PROPELLERS					
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
13-3/8	R	15	3		993143
13-3/8	L	15	3		993153
13-1/4	R	17	3		993144
13-1/4	L	17	3		993154
13-1/8	R	19	3		993145
13-1/8	L	19	3		993155
13	R	21	3		993146
13	L	21	3		993156

Drop-In Hub
Use XHS II® Hub Kit

206

Do NOT use Gearcase Adapter Ring supplied with propeller.

Refer to Pages 47-48 for Details on Hub Kit Components.

Boat Description/ Length	MICHIGAN MATCH REPLACEMENT PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
CR, HB	14	R	11	3	763301	012147
19'-22' - AL, SK	13-3/4	R	13	3	763302	011101
17'-19' - AL, SK	13-1/2	R	15	3	763466	011102
15'-17' - AL, SK	13-1/4	R	17	3	763463	011103
15'-17' - AL, SK	14	R	17	3	763463	011024
14'-16' - AL, SK	13	R	19	3	763464	011104
14'-16' - AL, SK	14	R	19	3	763464	011025
13'-15' - AL, SK	13	R	21	3	763465	011105

Rubber Hub Bushing

NEW BALLISTIC XHS STAINLESS STEEL PROPS					
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
13-5/8	R	15	3		933415
13-1/2	R	17	3		933417
13-3/8	R	19	3		933419
13-1/8	R	21	3		933421

Drop-In Hub

Use XHS II® Hub Kit
206

Do NOT use Gearcase Adapter Ring supplied with propeller.

Refer to Pages 47-48 for Details on Hub Kit Components.

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

Thru Hub Exhaust & 13 Tooth Spline

1.6 L V-4 1982 & Newer	1.8 L V-4 1987 & Newer
------------------------------	------------------------------

For twin installations increase pitch 2".

Boat Description/ Length	MICHIGAN MATCH REPLACEMENT PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
CR, HB	14	R	11	3	763301	012147
19'-22' - AL, SK	13-3/4	R	13	3	763302	011101
17'-19' - AL, SK	13-1/2	R	15	3	763466	011102
15'-17' - AL, SK	13-1/4	R	17	3	763463	011103
15'-17' - AL, SK	14	R	17	3	763463	011024
14'-16' - AL, SK	13	R	19	3	763464	011104
14'-16' - AL, SK	14	R	19	3	763464	011025
13'-15' - AL, SK	13	R	21	3	763465	011105

Rubber Hub Bushing


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

Thru Hub Exhaust & 15 Tooth Spline

3.0 L .....1990-1993	5.0 L 1978-1993	7.4 L 1990-1993
3.2 L (Diesel) .....1992-1993	5.7 L 1978-1993	7.5 L 1987-1990
3.8 L .....1978-1985	5.8 L (Cobra®) 1989-1993	8.2 L 1992-1993
4.3 L .....1985-1993	5.8 L (King Cobra®) 1992-1994	Sea Drive® 2.0 L - 4.0 L .....All Years

Includes H.O. and EFI Models

Note: For SX Drive, see Volvo Penta section on Page 40.



																							
3-BLADE ALUMINUM			4-BLADE ALUMINUM			Drop-In Hub	STD. 3-BLADE			LG DIAMETER 3-BLADE			4-BLADE			Drop-In Hub							
Dia.	Rot.	Pitch	Bld #	Part #	Dia.		Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Part #	Dia.		Rot.	Pitch	Part #				
16	R	13	3	992001																			
15-1/4	R	15	3	992002																			
NEW 16	R	16	3	931516																			
15	R	17	3	992003	15	R	16	4	992202														
14-1/2	R	19	3	992004	14-1/2	R	18	4	992203														
14-1/4	R	21	3	992005	14	R	20	4	992204														
14	R	23	3	992006																			
												ALUMINUM PROPELLERS						STAINLESS STEEL PROPELLERS					
												Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
Non-Plane Heavy CR	15-1/2	R	13	3	763453	011016																	
22'-28" (22-32 MPH)	15-1/2	R	15	3	763471	011006																	
19'-26" (28-39 MPH)																							
18'-26" (30-46 MPH)	15	R	17	3	763467	011007																	
18'-26" (30-46 MPH)																							
17'-24" (36-52 MPH)	14-1/2	R	19	3	763468	011008																	
17'-24" (36-52 MPH)																							
16'-22" (40-60 MPH)	14-1/4	R	21	3	763469	011009																	
16'-22" (40-60 MPH)																							
15'-20" (45-66 MPH)	14-1/4	R	23	3	763470	⊗ 011010																	
15'-20" (45-66 MPH)																							
Hi Perf. (50-66 MPH)																							

Note: For engine applications 1976-1990 use XHS II® (Drop-In Hub) Kit #201.
For engine applications 1991 & Newer use XHS II® (Drop-In Hub) Kit #200.

MODEL 14 LARGE GEARCASE 1967-1977

Non-Thru Hub Exhaust & Pin Drive

Suggestion: For twin installation increase pitch 2".
HP Range: 100-245

						
ALUMINUM PROPELLERS						
Boat Description/Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
HP Range: 100-245	14	R	14	3	381185	012091
HP Range: 100-245	14	R	16	3	381186	012092

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

⊗ Limited Inventory Item.

SX COBRA™, VOLVO PENTA SX • 4-3/4" GEARCASE

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.....1994-1997	8.2 L.....1997
5.0 L.....1994 & Newer		



3-BLADE ALUMINUM

4-BLADE ALUMINUM

STD. 3-BLADE

LG DIAMETER 3-BLADE

4-BLADE

Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
16	R	13	3	992001					
15-1/4	R	15	3	992002					
NEW 16	R	16	3	931516					
15	R	17	3	992003	15	R	16	4	992202
14-1/2	R	19	3	992004	14-1/2	R	18	4	992203
14-1/4	R	21	3	992005	14	R	20	4	992204
14	R	23	3	992006					

Drop-In Hub

Use XHS II® Hub Kit

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Refer to Pages 47-48 for Details on Hub Kit Components.

Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #
14-3/8	R	15	993042								
14-3/8	L	15	993052								
14-1/4	R	17	993043	15-1/2	R	17	993023	14-5/8	R	16	993203
14-1/4	L	17	993053	15-1/2	L	17	993033	14-5/8	L	16	993213
14-1/8	R	19	993044	15-1/4	R	19	993024	14-3/8	R	18	993204
14-1/8	L	19	993054	15-1/4	L	19	993034	14-3/8	L	18	993214
14	R	21	993045	14-3/4	R	21	993025	14-1/8	R	20	993205
14	L	21	993055	14-3/4	L	21	993035	14-1/8	L	20	993215
13-7/8	R	23	993046	14-5/8	R	23	993026	14	R	22	993206
13-7/8	L	23	993056	14-5/8	L	23	993036	14	L	22	993216

Drop-In Hub

Use XHS II® Hub Kit

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Refer to Pages 47-48 for Details on Hub Kit Components.



ALUMINUM PROPELLERS

Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
	24"-25" (26-36 MPH)	15-1/2	R	15	3	3850299	161001
22"-27" (34-44 MPH)	15	R	17	3	3850300	161002
22"-27" (33-44 MPH)						
19"-25" (39-50 MPH)	14-1/2	R	19	3	3850301	161003
19"-25" (39-50 MPH)						
17"-22" (39-50 MPH)	14-1/4	R	21	3	3850302	161004
17"-22" (39-50 MPH)						
17"-20" (44-57 MPH)	14-1/4	R	23	3	3850303	161005
17"-20" (44-57 MPH)						

Rubber Hub Bushing

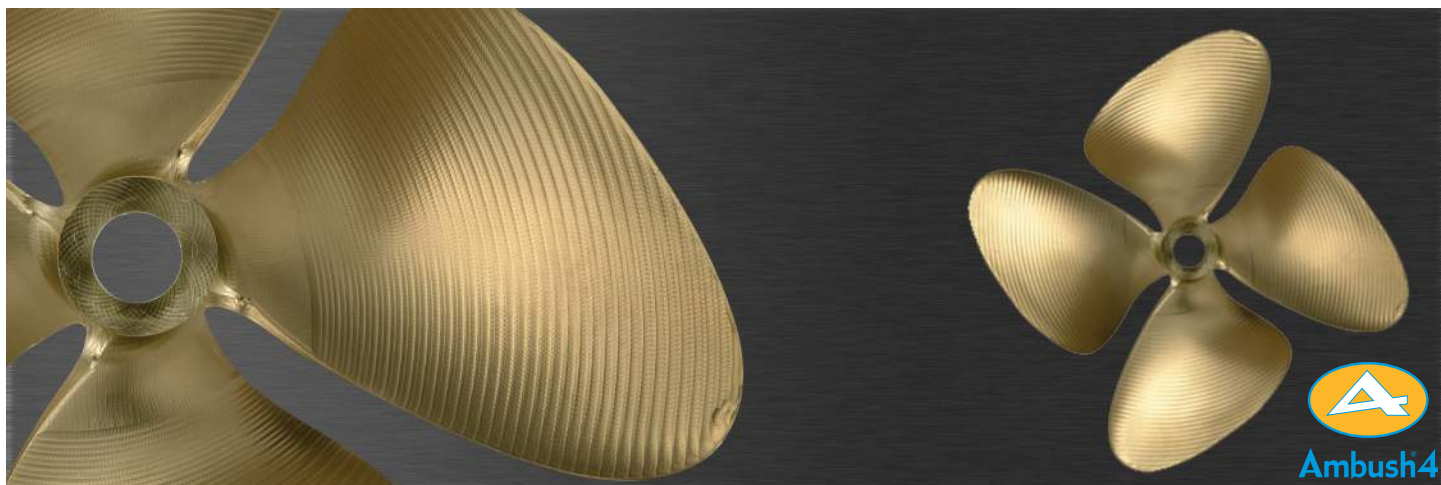
Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
14-7/8	R	15	3		933515
14-3/4	R	17	3		933517
14-3/4	L	17	3		937517
14-1/2	R	19	3		933519
14-1/2	L	19	3		937519
14-3/8	R	21	3		933521
14-3/8	L	21	3		937521
14-1/4	R	23	3		933523
14-1/4	L	23	3		937523

Drop-In Hub

Use XHS II® Hub Kit

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Refer to Pages 47-48 for Details on Hub Kit Components.



AMBUSH®

Michigan Wheel Marine, the leader in propeller manufacturing technology, presents Ambush® towboat propellers. These propellers are 100% CNC machined for the ultimate in accuracy and consistency. Michigan Wheel Marine developed the CNC machining process for propellers in the mid-1980's and revolutionized the way propellers became manufactured worldwide. 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.

Part Number	Dia x Pitch	Rotation	Bore	Part Number	Dia x Pitch	Rotation	Bore	Part Number	Dia x Pitch	Rotation	Bore
635101	13" x 13"	LH	1"	635400	14" x 18"	RH	1"	635404	14" x 18"	RH	1-1/4"
635103	13" x 13"	LH	1-1/8"	635401	14" x 18"	LH	1"	635405	14" x 18"	LH	1-1/4"
635300	13" x 16"	RH	1"	635402	14" x 18"	RH	1-1/8"	635443	14" x 20"	LH	1-1/8"
635302	13" x 16"	RH	1-1/8"	635403	14" x 18"	LH	1-1/8"				

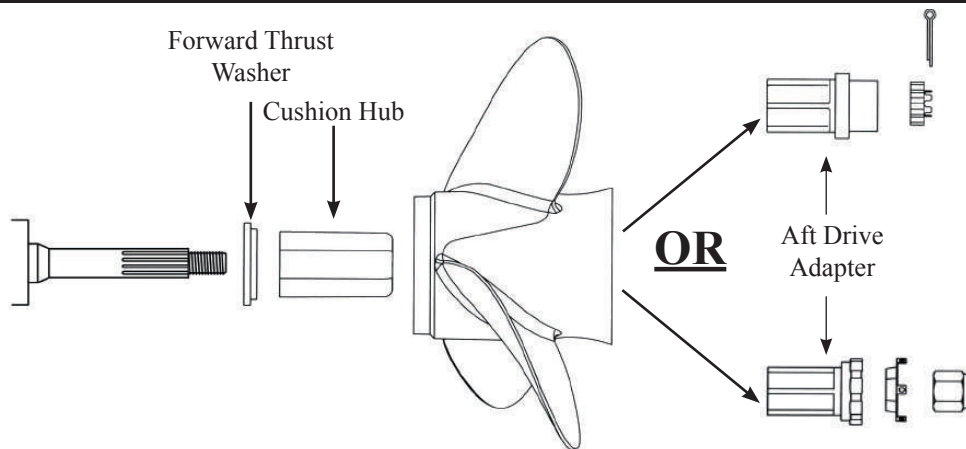


DYNA-JET® CUPPED

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

XHS® / XHS II® PROPELLER ACCESSORIES



Hub Kit	Description	Part Number / Description
200	Evinrude®/Johnson® Outboards - OMC® Sterndrive (V6/V8 Gearcase • 1991 to Present)	991202 Forward Thrust Washer
		991203 Aft Drive Adapter
		991301 Cushion Hub
201	Evinrude®/Johnson® Outboards - OMC® Sterndrive (V6/V8 Gearcase • 1984-1990)	991204 Forward Thrust Washer
		991203 Aft Drive Adapter
		991301 Cushion Hub
202	Mercruiser® Alpha One® & Bravo One® (Less than 400 HP) Mercury®/Mariner®/Sea Ray 40-140 HP Mercury®/Mariner®/Sea ray 135-300 HP Force® 85-150 HP (Dual Exhaust Units) Force® 75-150 HP (Mercury® 4-1/4" Gearcase) Honda® Outboards 70-90 HP (Thru 1998) Yamaha® Outboards 80-175 HP (Thru 1983)	991204 Forward Thrust Washer
		990344 Tab Washer
		991205 Aft Drive Adapter
		990346 Propeller Nut
		991301 Cushion Hub
203	Yamaha® Outboards & Sterndrives (V6 Gearcase • 115-130 HP; 150-250 HP; 1984 to Present)	991213 Forward Thrust Washer
		991206 Aft Drive Adapter
		991301 Cushion Hub
204	Suzuki® Outboards (V6 Gearcase • 150-300 HP)	991207 Forward Thrust Washer
		991208 Aft Drive Adapter
		991301 Cushion Hub
205	Volvo® SX Sterndrives (19 Tooth Spline; 1994 to Present)	991202 Forward Thrust Washer
		991209 Aft Drive Adapter
		991301 Cushion Hub
206	Evinrude®/Johnson® Outboards - OMC® Sterndrives (V4 Gearcase • 1968 to Present)	991210 Forward Thrust Washer
		991211 Aft Drive Adapter
		991301 Cushion Hub
207	Honda® Outboards (BFP 60, 115 & 130 HP, 1998 to Present; 75-90 HP, 1999 to Present) (135 & 150 HP, 2004 to Present; 200 & 225 HP, 2002 to Present)	991207 Forward Thrust Washer
		991205 Aft Drive Adapter
		991301 Cushion Hub
208	Yamaha® Outboards (V4 Gearcase • 50-100 HP; Spline Front Washer)	991212 Forward Thrust Washer
		991206 Aft Drive Adapter
		990338 (1) - Washer SS 30 x 17 x 2.5 mm
		991301 Cushion Hub
209	Nissan®/Tohatsu® Outboards (V4 Gearcase • 90-140 HP)	991213 Forward Thrust Washer
		991214 Aft Drive Adapter
		991301 Cushion Hub
210	Suzuki® V4 Outboards (V4 Gearcase • 60-140 HP)	991215 Forward Thrust Washer
		991211 Aft Drive Adapter
		991301 Cushion Hub
225	Suzuki®/Johnson® Outboards (DF 90, DF 100 & DF 115 HP 4-Stroke Applications)	991253 Forward Thrust Washer
		991205 Aft Drive Adapter
		990337 (1) - Washer SS 32 x 19.2 x 2.5 mm
		991301 Cushion Hub
226	Suzuki®/Johnson® Outboards (DF 140 HP 4-Stroke Applications)	991204 Forward Thrust Washer
		991205 Aft Drive Adapter
		990337 (1) - Washer SS 32 x 19.2 x 2.5 mm
		991301 Cushion Hub
227	Suzuki® Outboards (DF70A / DF80A / DF90A, 2009 to Present)	991312 Forward Thrust Washer
		991206 Aft Drive Adapter
		990337 (1) - Washer SS 32 x 19.2 x 2.5 mm
		991301 Cushion Hub

V4/V6 High Horsepower Hub Kits are available by special order. Add "SH" to the end of any V4/V6 Hub Kit number (except XHS II 227) to order. For details, contact MWM Customer Service at 800-369-4335.

XHS® / XHS II® PROPELLER ACCESSORIES

Hub Kit	Description	Part Number / Description	
111	Evinrude®/Johnson® Outboards (3-3/8" Gearcase • 40-75 HP)	991247	Forward Thrust Washer
		991232	Aft Drive Adapter
		991225	Urethane Cushion Hub
112	Nissan®/Tohatsu® Outboards (3-1/4" Gearcase • 50-70 HP)	991273	Forward Thrust Washer
		991232	Aft Drive Adapter
		991225	Urethane Cushion Hub
113	Honda® Outboards (3-1/4" Gearcase • 35-60 HP)	991234	Forward Thrust Washer
		991227	Aft Drive Adapter
		991225	Urethane Cushion Hub
114	Mercury®/Mariner®/Force® Outboards (3-1/4" Gearcase • 25-70 HP)	991236	Forward Thrust Washer
		991227	Aft Drive Adapter
		991225	Urethane Cushion Hub
115	Suzuki® Outboards (3-1/4" Gearcase • 35-65 HP)	991239	Forward Thrust Washer
		991232	Aft Drive Adapter
		990337	(2) - Washer SS 32 x 19.2 x 2.5 mm
		991225	Urethane Cushion Hub
116	Nissan®/Tohatsu® Outboards (3-1/4" Gearcase • 35-50 HP)	991241	Forward Thrust Washer
		991227	Aft Drive Adapter
		990338	(2) - Washer SS 17 x 30 x 2.5 mm
		991225	Urethane Cushion Hub
117	Yamaha® Outboards (3-1/4" Gearcase • 30-60 HP)	991243	Forward Thrust Washer
		991227	Aft Drive Adapter
		990338	(1) - Washer SS 17 x 30 x 2.5 mm
		991225	Urethane Cushion Hub
118	Evinrude®/Johnson® Outboard (3" Gearcase • 20-35 HP)	991237	Forward Thrust Washer
		991229	Aft Drive Adapter
		991225	Urethane Cushion Hub
119	Honda® Outboards (3" Gearcase • 25 & 30 HP 4-Stroke Applications)	991233	Forward Thrust Washer
		991226	Aft Drive Adapter
		991225	Urethane Cushion Hub
120	Mercury®/Mariner®/Force® Outboards (3" Gearcase • 9.9-25 HP)	991235	Forward Thrust Washer
		991228	Aft Drive Adapter
		991225	Urethane Cushion Hub
121	Suzuki® Outboards (3" Gearcase • 25-30 HP) Evinrude®/Johnson® Outboards (3" Gearcase • 25 HP 4-Stroke & 30 HP 4-Stroke; 2004-2007)	991238	Forward Thrust Washer
		991230	Aft Drive Adapter
		990338	(1) - Washer SS 17 x 30 x 2.5 mm
		991225	Urethane Cushion Hub
122	Nissan®/Tohatsu® Outboards (3" Gearcase • 25-30 HP) Mercury®/Mariner®/Sea Ray® Outboards (3" Gearcase • 25 & 30 HP 4-Stroke - Not Bigfoot Applications)	991240	Forward Thrust Washer
		991226	Aft Drive Adapter
		991225	Urethane Cushion Hub
123	Yamaha® Outboards (3" Gearcase • 20-30 HP)	991242	Forward Thrust Washer
		991230	Aft Drive Adapter
		990338	(1) - Washer SS 17 x 30 x 2.5 mm
		991225	Urethane Cushion Hub
	XHS II Standard Cushion Hub	991301	Delrin Cushion Hub
	XHS II High Horsepower Inner Hub (Mercury® Part #850821A2)	991372	Solid Hub
	V4 Gearcase Adapter Ring (3-Blade Propellers Only)	991216	V4 Adapter Ring (3-Blade)
	V4 Gearcase Adapter Ring (4-Blade Propellers Only)	991316	V4 Adapter Ring (4-Blade)
	20-30 Horsepower Gearcase Adapter Ring	991244	Package Includes All Three Sizes
	XHS 9.9 HP - 70 HP Standard Cushion Hub	991225	Urethane Cushion Hub



V4/V6 High Horsepower Hub Kits are available by special order. Add "SH" to the end of any V4/V6 Hub Kit number (except XHS II 227) to order. For details, contact MWM Customer Service at 1-800-369-4335.



PROPELLER CROSS REFERENCE

**MWM ALPHA-NUMERIC CROSS REFERENCE
(PAGE B2-B4)**

**MWM - TURNING POINT® CROSS REFERENCE
(PAGE B4)**

**MWM - SOLAS® CROSS REFERENCE
(PAGE B5)**

**MWM - QUICKSILVER® CROSS REFERENCE
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**XHS® / XHS II® HUB SYSTEM CROSS REFERENCE
(PAGE B6-B7)**

**OEM CROSS REFERENCE
(PAGES B8-B32)**

*Propeller dimensions and performance may vary from OEM propeller.
Product names may belong to Original Equipment Manufacturer.*

MICHIGAN WHEEL ALPHA-NUMERIC CROSS REFERENCE

Alpha Numeric	Status/Year Numeric Discontinued	Alpha Numeric	Status/Year Numeric Discontinued	Alpha Numeric	Status/Year Numeric Discontinued
AJC-63	152001	Dis. 1992	PJ-10	012007	Current
AJC-317	016002	Current	PJ-11	012008	Current
AJC-318	012062	Dis. 1990	PJ-13	012009	Dis. 1994
AJC-417	012063	Dis. 1996	PJ-15	012010	Dis. 2007
AJC-418	012064	Dis. 1992	PJ-16	012011	Current
AJC-469	012065	Dis. 1992	PJ-18	012013	Current
AM-416	012066	Dis. 1991	PJ-19	012109	Current
AM-431	012067	Dis. 2007	PJ-21	012014	Dis. 2010
AMC-128-C	071010	Dis. 1995	PJ-22	012015	Current
AMC-152-C	071021	Dis. 1995	PJ-24	012016	Current
AMC-308	072014	Current	PJ-27	012019	Dis. 1996
AMC-310	072131	Current	PJ-28	012020	Dis. 1990
AMC-314	072133	Current	PJ-29	012021	Current
AMC-316	072134	Dis. 2006	PJ-30	012022	Dis. 2008
AMC-394	072132	Current	PJ-31	012023	Current
AMC-422	012068	Dis. 2008	PJ-32	012024	Current
AMC-444	012070	Dis. 1991	PJ-33	012025	Dis. 2011
AMC-445	012071	Dis. 1992	PJ-40	012026	Dis. 2006
AMC-448	012072	Dis. 1996	PJ-41	012027	Dis. 2008
AMC-490	152002	Dis. 2003	PJ-42	012028	Dis. 2007
AMC-503	032073	Dis. 1991	PJ-44	012029	Dis. 1993
AMC-506	032074	Dis. 1991	PJ-45	012030	Current
AMC-535	152003	Dis. 1996	PJ-47	012031	Dis. 2006
AMC-577-S	032075	Dis. 1991	PJ-49	012032	Current
AMC-580-S	032077	Dis. 2006	PJ-50	012033	Dis. 2003
C-15	152011	Dis. 1993	PJ-51	012034	Dis. 1991
C-18	152012	Dis. 1991	PJ-53	012035	Dis. 1992
DQ-320	012074	Dis. 2006	PJ-58	012036	Current
DQ-328	012075	Dis. 2007	PJ-58-C	011018	Dis. 1990
DQ-430	032078	Dis. 1991	PJ-59	012037	Current
E-40	152013	Dis. 1990	PJ-59-C	011019	Dis. 1990
EWC-19	012076	Dis. 2006	PJ-60	012038	Dis. 2007
EWC-28	012077	Dis. 1987	PJ-60-C	011020	Dis. 1990
EWC-29	012078	Dis. 1988	PJ-61	012039	Limited Inv.
G-20	072017	Dis. 2010	PJ-62	012040	Dis. 2008
G-30	152014	Dis. 2005	PJ-73	012041	Dis. 1996
G-40	152015	Dis. 1996	PJ-74	012042	Dis. 2005
G-45	152016	Dis. 1992	PJ-75	012043	Dis. 2005
G-50	152017	Dis. 1996	PJ-76	012044	Dis. 2008
GC-54	072018	Dis. 1996	PJ-77	012045	Dis. 2008
GC-55	072019	Dis. 1996	PJ-78	012046	Dis. 1994
K-40	032079	Dis. 1992	PJ-79	012048	Dis. 2000
K-50	032080	Dis. 1992	PJ-80	012049	Dis. 1996
K-70	032081	Dis. 1992	PJ-81	012050	Dis. 1996
K-74	032082	Dis. 1992	PJ-82	012051	Dis. 1996
PC-4	072020	Dis. 1991	PJ-83-C	011105	Current
PC-5	072120	Dis. 1992	PJ-87	012147	Current
PC-6	072021	Dis. 1996	PJ-88-C	011101	Current
PC-9	072022	Dis. 1996	PJ-89-C	011102	Current
PC-10	072023	Dis. 1996	PJ-90-C	011103	Current
PC-12	072024	Dis. 2006	PJ-91-C	011104	Current
PC-20	072026	Dis. 2006	PJ-94	012053	Dis. 2006
PC-24	072121	Dis. 2006	PJ-95	012054	Current
PC-26	072125	Dis. 1996	PJ-96	012055	Current
PC-28	072122	Dis. 2006	PJ-97	012056	Current
PC-32	072121	Dis. 2006	PJ-98	012057	Current
PC-90	072126	Dis. 1994	PJ-199-C	011015	Dis. 2008
PC-112	072123	Current	PJ-200	012059	Dis. 1996
PJ-3	012001	Dis. 2007	PJ-200-C	011016	Current
PJ-5	012002	Dis. 1996	PJ-201-C	011006	Current
PJ-6	012003	Dis. 1996	PJ-202-C	011007	Current
PJ-7	012004	Dis. 2006	PJ-203-C	011008	Current
PJ-8	012005	Current	PJ-204-C	011009	Current
PJ-9	012006	Dis. 2008	PJ-205-C	011010	Dis. 2010
PJ-300	012060	Dis. 2009	PM-4	032012	Dis. 1992
PM-6	032013	Dis. 1996	PM-6	032013	Dis. 1996
PM-8	032014	Dis. 2003	PM-8	032014	Dis. 2003
PM-10	032015	Dis. 1994	PM-10	032015	Dis. 1994
PM-11	032016	Dis. 1994	PM-11	032016	Dis. 1994
PM-16	032017	Dis. 1992	PM-16	032017	Dis. 1992
PM-18	032018	Dis. 1992	PM-18	032018	Dis. 1992
PM-19	032019	Dis. 2008	PM-19	032019	Dis. 2008
PM-20	032020	Current	PM-20	032020	Current
PM-21	032021	Current	PM-21	032021	Current
PM-22-C	031047	Dis. 2008	PM-22-C	031047	Dis. 2008
PM-23-C	031048	Current	PM-23-C	031048	Current
PM-24-C	031049	Current	PM-24-C	031049	Current
PM-26	032111	Dis. 1993	PM-26	032111	Dis. 1993
PM-27	032025	Dis. 1996	PM-27	032025	Dis. 1996
PM-28	032027	Dis. 1992	PM-28	032027	Dis. 1992
PM-29	032028	Dis. 1992	PM-29	032028	Dis. 1992
PM-30	032112	Dis. 1993	PM-30	032112	Dis. 1993
PM-39	032030	Dis. 1987	PM-39	032030	Dis. 1987
PM-40	032031	Dis. 1987	PM-40	032031	Dis. 1987
PM-42	032032	Dis. 1987	PM-42	032032	Dis. 1987
PM-54	032033	Dis. 1991	PM-54	032033	Dis. 1991
PM-55	032034	Dis. 1994	PM-55	032034	Dis. 1994
PM-56	032035	Dis. 1993	PM-56	032035	Dis. 1993
PM-60	032036	Dis. 1987	PM-60	032036	Dis. 1987
PM-61	032037	Dis. 1987	PM-61	032037	Dis. 1987
PM-62	032038	Dis. 1987	PM-62	032038	Dis. 1987
PM-211-C	031021	Dis. 2008	PM-211-C	031021	Dis. 2008
PM-213-C	031022	Current	PM-213-C	031022	Current
PM-215-C	031023	Current	PM-215-C	031023	Current
PM-217-C	031024	Current	PM-217-C	031024	Current
PM-219-C	031025	Current	PM-219-C	031025	Current
PM-221-C	031026	Current	PM-221-C	031026	Current
PM-223-C	031027	Dis. 2006	PM-223-C	031027	Dis. 2006
PM-315-C	031141	Current	PM-315-C	031141	Current
PM-317-C	031142	Current	PM-317-C	031142	Current
PM-319-C	031143	Current	PM-319-C	031143	Current
PM-321-C	031144	Current	PM-321-C	031144	Current
PM-323-C	031045	Current	PM-323-C	031045	Current
PM-513	032039	Dis. 2008	PM-513	032039	Dis. 2008
PM-515	032040	Current	PM-515	032040	Current
PM-518	032041	Current	PM-518	032041	Current
PM-521	032042	Current	PM-521	032042	Current
PM-524	032043	Current	PM-524	032043	Current
PM-527	032044	Current	PM-527	032044	Current
PM-530	032045	Current	PM-530	032045	Current
PM-600-C	031015	Current	PM-600-C	031015	Current
PM-612-C	031016	Current	PM-612-C	031016	Current
PM-613-C	031017	Current	PM-613-C	031017	Current
PM-614-C	031018	Current	PM-614-C	031018	Current
PM-615-C	031019	Current	PM-615-C	031019	Current
PM-617-C	031020	Current	PM-617-C	031020	Current
PR-4	072027	Dis. 1991	PR-4	072027	Dis. 1991
PR-8	072028	Dis. 1996	PR-8	072028	Dis. 1996
PR-10	072029	Dis. 1991	PR-10	072029	Dis. 1991
PR-20	012079	Dis. 1993	PR-20	012079	Dis. 1993
PR-22	012080	Dis. 1993	PR-22	012080	Dis. 1993
PR-24	012081	Dis. 1992	PR-24	012081	Dis. 1992
PR-26	012082	Dis. 1992	PR-26	012082	Dis. 1992
PR-31	032083	Dis. 1996	PR-31	032083	Dis. 1996
PR-33	032084	Dis. 2007	PR-33	032084	Dis. 2007
PR-35	032085	Dis. 2007	PR-35	032085	Dis. 2007
PR-37	032086	Dis. 2006	PR-37	032086	Dis. 2006

CAN'T FIND YOUR ALPHA-NUMERIC PART NUMBER LISTED ABOVE?
FOR ADDITIONAL ASSISTANCE CONTACT MICHIGAN WHEEL MARINE CUSTOMER SERVICE AT 800-369-4335

MICHIGAN WHEEL ALPHA-NUMERIC CROSS REFERENCE

Alpha Numeric	Status/Year Numeric Discontinued	Alpha Numeric	Status/Year Numeric Discontinued	Alpha Numeric	Status/Year Numeric Discontinued
PR-39	032087 Dis. 2007	PR-409	072063 Dis. 1987	SMC-339	082026 Dis. 1997
PR-43	032088 Dis. 1994	PR-412	072064 Dis. 1987	SMC-340	082059 Dis. 1997
PR-74	072030 Dis. 1991	PR-413	072065 Dis. 1987	SMC-341	082060 Dis. 1997
PR-76	072031 Dis. 1992	PR-416	072066 Dis. 1987	SMC-342	082027 Dis. 1997
PR-78	072032 Dis. 2007	PR-417	072067 Dis. 1987	SMC-343	082028 Dis. 1997
PR-80	072033 Dis. 2006	PR-420	012095 Dis. 1993	SMC-344	082029 Dis. 1997
PR-82	072034 Dis. 2005	PR-421	016006 Dis. 1992	SMC-345	082030 Dis. 1997
PR-90	012083 Dis. 1992	PR-422	012096 Dis. 1992	SMC-346	082031 Dis. 1997
PR-92	012084 Dis. 1993	PR-423	016007 Dis. 1991	SMC-350	082053 Dis. 1996
PR-94	012085 Dis. 1992	PR-424	012097 Dis. 1994	SMC-351	082036 Dis. 1995
PR-95	016004 Dis. 1991	PR-425	016008 Dis. 1992	SMC-374-C	031035 Dis. 2003
PR-96	012086 Dis. 1993	PR-426	012098 Dis. 1992	SMC-376-C	031036 Dis. 2003
PR-97	016005 Dis. 1992	PR-427	016009 Dis. 1987	SMC-378-C	031037 Dis. 2005
PR-105	012087 Dis. 1993	PR-432	072114 Dis. 1993	SMC-380-C	031038 Dis. 2005
PR-109	012088 Dis. 1992	PR-434	072068 Dis. 1996	SMC-382-C	031039 Dis. 2005
PR-115	012089 Dis. 2008	PR-552	072069 Dis. 1992	SMC-384-C	031040 Dis. 1997
PR-118	012090 Dis. 2007	PR-553	072070 Dis. 1996	SMC-434	036004 Dis. 1992
PR-120	012091 Current	PR-554	072071 Dis. 1992	SMC-435	036005 Dis. 1992
PR-122	012092 Current	PR-555	072072 Dis. 1990	SMC-436	036006 Dis. 1992
PR-124	012093 Dis. 2007	PR-884	072073 Dis. 1991	SMC-437	036007 Dis. 1992
PR-126	012094 Dis. 2007	PS-1	062001 Dis. 1992	SMC-438	036008 Dis. 1991
PR-130	072035 Dis. 1991	PS-2	062002 Dis. 1992	SMC-439	036009 Dis. 1992
PR-132	072036 Dis. 1991	PS-5	062003 Dis. 1992	SMC-440	036010 Dis. 1987
PR-134	072037 Dis. 1991	PS-6	062004 Dis. 1993	SMC-504-C	031034 Dis. 2003
PR-136	072038 Dis. 1991	PS-7	062005 Dis. 1991	SMC-530	072078 Dis. 1987
PR-138	072039 Dis. 1991	PS-25	152020 Dis. 1992	SMC-556	072077 Dis. 1987
PR-151	032089 Dis. 2004	PS-40	152021 Dis. 1993	SMC-566	072076 Dis. 1987
PR-153	032090 Dis. 2004	PS-71	152023 Dis. 1992	SMC-570	072079 Dis. 1987
PR-155	032091 Dis. 2004	PS-72	152024 Dis. 1991	SMC-582	072086 Dis. 1987
PR-155-C	031001 Dis. 2003	PS-73	152025 Dis. 1992	SMC-592	072083 Dis. 1987
PR-157	032092 Dis. 2004	PS-513	062006 Dis. 1991	SMC-604	072084 Dis. 1987
PR-157-C	031002 Dis. 2003	PS-515	062007 Dis. 1991	SMC-606	072085 Dis. 1987
PR-159	032093 Dis. 2004	PS-518	062008 Dis. 1991	SMC-635	152035 Dis. 1991
PR-159-C	031003 Dis. 2003	PS-521	062009 Dis. 1991	SMC-637	152036 Dis. 1992
PR-161	032094 Dis. 2004	PS-524	062010 Dis. 1991	SMC-713	152037 Dis. 1992
PR-161-C	031004 Dis. 2003	PS-527	062011 Dis. 1991	SMC-715	152038 Dis. 1992
PR-163	032095 Dis. 2004	PY-315-C	101001 Dis. 1997	SMC-720	072088 Dis. 1993
PR-163-C	031005 Dis. 1994	PY-317-C	101003 Dis. 1997	SMC-721	072090 Dis. 1992
PR-248	072047 Dis. 1987	PY-319-C	101005 Dis. 1997	SMC-733	072092 Dis. 1990
PR-250	072048 Dis. 1987	PY-321-C	101007 Dis. 1997	SMC-734	072093 Dis. 1991
PR-256	072049 Dis. 1987	PY-323-C	101009 Dis. 1994	SMC-735	072095 Dis. 1990
PR-258	072050 Dis. 1987	PY-415-C	101010 Dis. 1997	SMC-736	072089 Dis. 1992
PR-260	072051 Dis. 1987	PY-417-C	101011 Dis. 1997	SMC-737	072091 Dis. 1992
PR-264	072053 Dis. 1987	PY-419-C	101012 Dis. 1997	SMC-744	072097 Dis. 1992
PR-276	072054 Dis. 2007	PY-421-C	101013 Dis. 1997	SMC-750	072099 Dis. 1992
PR-278	072055 Current	PY-423-C	101014 Dis. 1994	SMC-751	072098 Dis. 1996
PR-333	032096 Dis. 1993	SA-10	152030 Dis. 1994	SMC-760	072096 Dis. 1996
PR-335	032097 Dis. 1996	SAC-371	152034 Dis. 1992	SMC-765	072101 Dis. 1994
PR-335-C	031007 Dis. 1990	SMC-7	152029 Dis. 1987	SMC-768	072103 Dis. 1991
PR-337	032098 Dis. 1995	SMC-12	012100 Dis. 1996	SMC-769	072104 Dis. 1996
PR-337-C	142002 Dis. 2009	SMC-18	012101 Dis. 2007	SMC-773	072105 Dis. 1990
PR-339	032099 Dis. 2007	SMC-34	016011 Dis. 1992	SMC-774	072106 Dis. 1996
PR-339-C	031009 Dis. 1990	SMC-38	016013 Dis. 1992	SMC-800	032104 Dis. 1987
PR-343	032100 Dis. 1996	SMC-39	012102 Current	SMC-801	032103 Dis. 1987
PR-343-C	031010 Dis. 1990	SMC-46	072074 Dis. 1994	SMC-802	032106 Dis. 1996
PR-345	032101 Dis. 1993	SMC-47	012063 Dis. 1996	SMC-803	032105 Dis. 1992
PR-345-C	031011 Dis. 1990	SMC-292	082022 Dis. 2007	SMC-804	032108 Dis. 1992
PR-396	072056 Dis. 1987	SMC-293	082021 Dis. 2011	SMC-805	032107 Dis. 1992
PR-397	072057 Dis. 1987	SMC-294	082024 Dis. 1996	SMC-806	032110 Dis. 1990
PR-400	072058 Dis. 1987	SMC-295	082023 Dis. 2007	SMC-807	032109 Dis. 1995
PR-401	072059 Dis. 1987	SMC-304	012103 Dis. 1992	SMC-808	072112 Dis. 1992
PR-404	072060 Dis. 1987	SMC-308	012104 Dis. 1992	SMC-809	072113 Dis. 1990
PR-405	072061 Dis. 1987	SMC-312	012105 Dis. 1992	SMC-862	012106 Dis. 1992
PR-408	072062 Dis. 1987	SMC-335	082025 Dis. 1997	SMC-864	012107 Dis. 1992

CAN'T FIND YOUR ALPHA-NUMERIC PART NUMBER LISTED ABOVE?
FOR ADDITIONAL ASSISTANCE CONTACT MICHIGAN WHEEL MARINE CUSTOMER SERVICE AT 1-800-369-4335

MICHIGAN WHEEL ALPHA-NUMERIC CROSS REFERENCE

Alpha Numeric	Status/Year Numeric Discontinued	Alpha Numeric	Status/Year Numeric Discontinued	Alpha Numeric	Status/Year Numeric Discontinued
SMC-885	082035 Dis. 1992	SSM-272-C	033020 Dis. 1994	SSO-817-C	013015 Dis. 1995
SMC-898	082037 Dis. 1994	SSM-292-C	033021 Dis. 1995	SSO-819-C	013016 Dis. 1994
SMC-900	082041 Dis. 1992	SSM-312-C	033022 Dis. 1996	SSO-821-C	013017 Dis. 1996
SMC-906	082043 Dis. 1996	SSM-350-C	033007 Dis. 2005	SSO-922-C	013007 Dis. 1990
SMC-922	082047 Dis. 1992	SSM-354-C	033008 Dis. 2005	SSO-924-C	013008 Dis. 1990
SMC-925	082049 Dis. 1995	SSM-358-C	033009 Dis. 2005	SSO-926-C	013009 Dis. 1990
SMC-929	082051 Dis. 1991	SSM-615-II-C	033016 Dis. 2005	SSV-171-C	083001 Dis. 2006
SMC-940	082052 Dis. 1992	SSM-617-II-C	033017 Dis. 2006	SSV-172-C	083002 Dis. 2006
SMC-944	082054 Dis. 1992	SSM-619-II-C	033018 Dis. 2006	SSV-192-C	083004 Dis. 2006
SPC-180	072107 Current	SSM-621-II-C	033019 Dis. 2006	SSV-211-C	083005 Dis. 2006
SPC-182	072108 Current	SSM-822-C	033013 Dis. 1990	SSV-212-C	083006 Dis. 2006
SPC-184	072109 Dis. 2006	SSM-824-C	033014 Dis. 1990	SSY-615-II-C	103025 Dis. 2006
SSC-315-II-C	073002 Dis. 2005	SSM-826-C	033015 Dis. 1990	SSY-617-II-C	103026 Dis. 2006
SSC-317-II-C	073003 Dis. 2005	SSO-315-C	013010 Dis. 2007	SSY-619-II-C	103027 Dis. 2006
SSC-319-II-C	073004 Dis. 2005	SSO-515-II-C	013011 Dis. 1990	SSY-621-II-C	103028 Dis. 1997
SSC-321-II-C	073005 Dis. 1996	SSO-517-C	013012 Dis. 1990	SSY-715-C	103016 Dis. 1991
SSC-614-C	073006 Dis. 1996	SSO-519-C	013013 Dis. 1990	SSY-717-C	103018 Dis. 2006
SSM-212-C	033001 Dis. 2006	SSO-521-C	013014 Dis. 1990	SSY-719-C	103020 Dis. 2006
SSM-245-C	033002 Dis. 2006	SSO-645-C	013001 Dis. 1990	SSY-721-C	103022 Dis. 2007
SSM-247-C	033003 Dis. 2006	SSO-647-C	013002 Dis. 1990	SSY-722-C	103050 Dis. 2003
SSM-249-C	033004 Dis. 2006	SSO-649-C	013003 Dis. 1990	SSY-723-C	103024 Dis. 2003
SSM-251-C	033005 Dis. 2005	SSO-651-C	013004 Dis. 1990	SSY-724-C	103052 Dis. 2003
SSM-253-C	033006 Dis. 2006	SSO-653-C	013005 Dis. 1990	SSY-726-C	103054 Dis. 2003

CAN'T FIND YOUR ALPHA-NUMERIC PART NUMBER LISTED ABOVE?
FOR ADDITIONAL ASSISTANCE CONTACT MICHIGAN WHEEL MARINE CUSTOMER SERVICE AT 1-800-369-4335

TURNING POINT® - MICHIGAN WHEEL CROSS REFERENCE

Turning Point® Part #	Alternate TP Part #	MWM Part #	Turning Point® Part #	Alternate TP Part #	MWM Part #	Turning Point® Part #	Alternate TP Part #	MWM Part #
E-1415		993042	H1-1319		992115	LE2-1413	2143 1311	992212
E-1417		993043	H1-1321		992116	PA-1417	3150 1710	993043
E-1419		993044	H1-1413		992212	PA-1417-L	3150 1720	993053
E-1421		993045	H2-1117	2131 1710	992303	PA-1419	3150 1910	993044
E-1423		993046	H2-1213	2131 1310	992311	PA-1419-L	3150 1920	993054
E1-1012	3130 1211	993405	H2-1215	2131 1510	992312	PA-1421	3150 2110	993045
E1-1013	3130 1311	993406	H2-1315		992213	PA-1421-L	3150 2120	993055
E1-1014	3130 1411	993407	H2-1317		992214	PA-1423	3150 2310	993046
E1-1015	3130 1511	993408	H2-1319		992115	PA-1423-L	3150 2320	993056
E1-1315		993143	H2-1321		992116	PA1-1315	3140 1510	993143
E1-1317		993144	H2-1413		992212	PA1-1317	3140 1710	993144
E1-1319		993145	LE-1417	2150 1711	992003	PA1-1319	3140 1910	993145
E1-1321		993146	LE-1419	2150 1911	992004	PA1-1321	3140 2110	993146
E2-1315		993143	LE-1421	2150 2111	992005	PA2-1315	3141 1510	993143
E2-1317		993144	LE-1423	2150 2311	992006	PA2-1317	3141 1710	993144
E2-1319		993145	LE-1515	2150 1511	992002	PA2-1319	3141 1910	993145
E2-1321		993146	LE1-1315	2143 1511	992213	PA2-1321	3141 2110	993146
H-1417		992003	LE1-1317	2143 1711	992214	R1-1011	2120 1110	992503
H-1419		992004	LE1-1317-4	2143 1730	941417	R1-1013	2120 1310	992505
H-1421		992005	LE1-1319-4	2143 1930	941419	R2-1011	2121 1110	992503
H-1423		992006	LE1-1319	2143 1911	992115	R2-1013	2121 1310	992505
H-1515		992002	LE1-1321	2143 2111	992116	R3-1011	2122 1110	992503
H1-1011	2130 1110	992404	LE1-1413	2143 1311	992212	R3-1013	2122 1310	992505
H1-1012	2130 1210	992405	LE2-1315	2143 1511	992213	VO-1517	3152 1710	993023
H1-1013	2130 1310	992406	LE2-1317	2143 1711	992214	VO-1517-L	3152 1720	993033
H1-1014	2130 1410	992407	LE2-1317-4	2143 1730	941417	VO-1519	3152 1910	993024
H1-1015	2130 1510	992408	LE2-1319-4	2143 1930	941419	VO-1519-L	3152 1920	993034
H1-1210	2130 1010	992602	LE2-1319	2143 1911	992115	VO-1521	3152 2110	993025
H1-1315		992213	LE2-1321	2143 2111	992116	VO-1521-L	3152 2120	993025
H1-1317		992214						

SOLAS® - MICHIGAN WHEEL CROSS REFERENCE

Solas® Part #	MWM Part #	Solas® Part #	MWM Part #	Solas® Part #	MWM Part #
1111-093-07	032056	2511-142-23	011010	4311-120-10	032045
1111-093-08	032054	2511-143-21	011009	4331-110-15	933215
1111-093-09	032052	2511-145-19	011008	4331-111-13	993213
1111-093-10	032050	2511-148-17	011007	4411-138-13	031202
1211-100-14	031047	2511-150-15	011006	4411-140-11	031200
1211-101-13	031048	2511-155-13	011016	4413-133-13	941413
1211-105-11	031049	2551-140-24	953524	4413-130-15	941415
1231-100-15	933015	2551-143-22	345051	4413-128-17	941417
1231-101-13	933013	2551-145-21	933521	4413-125-19	941419
1311-110-15	031019	2551-148-16	933515	8611-142-23	161005
1311-111-13	031047	2551-148-17	933517	8611-143-21	161004
1311-111-14	031018	2551-148-19	933519	8611-145-19	161003
1311-114-12	031017	2552-145-21	937521	8611-148-17	161002
1311-116-11	031016	2552-148-17	937517	8611-150-15	161001
1311-120-10	032142	2552-148-19	937519	8651-148-16	933515
1311-121-09	031015	2553-140-23	963523	8651-148-17	933517
1411-130-19	031143	2553-140-25	963525	8651-148-19	933519
1411-130-21	031144	3011-085-08	102002	8651-148-21	933521
1411-133-17	031142	3111-093-08	102003	8651-148-23	933523
1411-135-15	031141	3111-093-09	102004	8652-148-17	937517
1411-138-13	031202	3111-093-10	102005	8652-148-19	937519
1411-140-11	031154	3211-099-09	022001	8652-148-23	937523
1413-133-13	941413	3211-099-10	022002	9411-132-19	992215
1413-130-15	941415	3211-099-12	022003	9411-132-21	992216
1413-128-17	941417	3231-100-15	933015	9411-133-17	992214
1413-125-19	941419	3231-101-13	933013	9411-135-15	992213
1431-130-19	933419	3311-110-15	032040	9413-133-13	941413
1431-130-21	933421	3311-111-13	032042	9413-130-15	941415
1431-133-17	933417	3311-111-14	032041	9413-128-17	941417
1431-135-15	933415	3311-114-12	032043	9413-125-19	941419
1451-139-17	933417	3311-116-11	032044	9431-130-19	993145
1451-139-19	933419	3311-118-11	032044	9431-130-21	993146
1451-139-21	933421	3311-120-10	032045	9431-133-17	993144
1451-139-23	334135	3311-121-09	032045	9431-135-15	993143
1451-139-25	953424	3331-110-15	933215	9431-138-13	992212
1511-148-16	933515	3331-111-13	993213	9432-130-19	993155
1551-140-24		3411-130-19	101034	9432-133-17	993154
1551-143-22	953522	3411-130-21	101135	9432-135-15	993153
1551-145-21	933521	3411-133-17	101033	9511-143-21	992005
1551-148-16	933515	3411-135-15	101032	9511-145-19	992004
1551-148-17	933517	3411-138-13	101031	9511-148-17	992003
1551-148-19	933519	3411-140-11	101136	9511-150-15	992002
1552-143-22	937523	3413-133-13	941413	9513-143-19	992204
1552-145-21	937521	3413-130-15	941415	9513-148-17	992203
1552-148-17	937517	3413-128-17	941417	9513-148-15	992202
1552-148-19	937519	3413-125-19	941419	9531-140-19	993044
1553-140-23	963523	3431-130-21	933421	9531-140-21	993045
1553-140-25	963525	3431-133-17	933317	9531-140-23	993046
2011-085-09	012007	3431-135-15	933315	9531-143-17	993043
2111-093-07	012112	3441-133-17	933417	9531-145-15	993042
2111-093-10	012111	3441-133-19	933419	9532-140-19	993054
2211-101-13	012056	3441-138-15	933415	9532-140-21	993055
2211-105-11	012055	3511-145-19	101028	9532-140-23	993056
2231-100-15	933015	3511-148-17	101027	9532-143-17	993053
2231-101-13	933013	3551-140-24	933525	9532-145-15	993052
2311-120-17	011028	3551-143-22	933523	9553-140-21	993205
2311-123-15	011027	3551-145-21	933521	9553-140-23	993206
2311-125-13	011035	3551-148-16	933515	9553-141-19	993204
2311-130-11	012036	3551-148-17	937517	9553-143-17	993203
2411-130-19	011104	3551-148-19	933519	9554-140-21	993215
2411-130-21	011105	3552-145-21	937521	9554-140-23	993216
2411-133-17	011103	3552-148-17	937517	9554-141-19	993214
2411-135-15	011102	3552-148-19	937519	9554-143-17	993213
2411-138-13	011101	3553-140-23	963523	9571-148-23	993026
2411-140-11	012147	3553-140-25	963525	9571-150-21	993025
2413-133-13	941413	4111-093-09	062103	9571-153-19	993024
2413-130-15	941415	4231-100-15	933015	9571-155-17	993023
2413-128-17	941417	4231-101-13	933013	9572-148-23	993036
2413-125-19	941419	4311-116-12	032043	9572-150-21	993035
2441-133-17	933417	4311-116-14	032041	9572-153-19	993034
2441-133-19	933419	4311-118-11	032044	9572-155-17	993033
2441-138-15	933415				

QUICKSILVER® - MICHIGAN WHEEL CROSS REFERENCE

Quicksilver® Part #	MWM Part #	Quicksilver® Part #	MWM Part #	Quicksilver® Part #	MWM Part #
48-33480A1	032135	QA2078X	992406	QA3122R	012057
48-47670A10	032020	QA2080X	992407	QA3136R	012016
48-47922A10	032021	QA2084X	992408	QA3150R	012011
48-8M8027498	941411	QA2102R	031049	QA3152R	012013
48-8M8027500	941413	QA2106R	031048	QA3168R	012111
48-8M8027502	941415	QA2124R	032056	QA3190R	012032
48-8M8027504	941417	QA2128R	032052	QA3808R	022002
48-8M8027506	941419	QA2130R	032050	QA3812R	022003
48-819335A40	072132	QA2158R	142203	QA3828X	992209
48-819336A40	072131	QA2182X	992202	QA3832X	992212
48-819337A45	072014	QA2184X	992203	QA3902R	102003
48-86962A4	032136	QA2186X	992204	QA3906R	102004
48-FP669-3	071035	QA2202X	992116	QA3914R	102005
48-FP685-3	071036	QA2204X	992115	QS5004X	993023
48-FP685-3	072128	QA2206X	992214	QS5005X	993033
48-FP686-4	992115	QA2208X	992213	QS5006X	993024
48-FP692-3	072127	QA2226R	032044	QS5007X	993034
48-FP743-2	992212	QA2230R	032042	QS5008X	993025
QA1912X	992003	QA2232R	032041	QS5009X	993035
QA1916X	992004	QA2234R	032040	QS5010X	993026
QA1918X	992005	QA2242R	992501	QS5011X	993036
QA1920X	992006	QA2248R	992503	QS5050X	993042
QA2002X	992001	QA2252R	992504	QS5052X	993043
QA2008X	992002	QA2254R	992505	QS5053X	993053
QA2028X	992209	QA2828X	992209	QS5054X	993044
QA2032X	992212	QA2832X	992212	QS5055X	993054
QA2034X	992213	QA3080R	011034	QS5056X	993045
QA2036X	992214	QA3080R	012036	QS5057X	993055
QA2038X	992115	QA3082R	011035	QS5058X	993046
QA2040X	992116	QA3082R	012037	QS5059X	993056
QA2062X	992601	QA3084R	011027	QS5164X	993405
QA2064X	992602	QA3088R	011028	QS5166X	993406
QA2070X	992404	QA3114R	012055	QS5168X	993407
QA2074X	992405	QA3118R	012056	QS5170X	993408

MICHIGAN WHEEL XHS® / XHS II™ CROSS REFERENCE

XHS® / XHS II® HUB SYSTEM CROSS REFERENCE TO EVINRUDE® TBX® HUB SYSTEM

Applications	Spline	Year	Evinrude® TBX®	XHS II® Hub Kit
Evinrude®/Johnson® V4 45-75 HP (4-1/4" Gearcase)	13	1968 & Newer	765195	See Note 5
Evinrude®/Johnson® V4 85-140 HP	13	1969 & Newer	765195	See Note 5
Evinrude®/Johnson® 90, 115 HP (4-Stroke)	15	2003 & Newer	765199	225
Evinrude®/Johnson® 90-140 HP (Large Gearcase)	15	1991 & Newer	765190	226
Force® 75-150 HP	15	1995 & Newer	765192	202
Honda® 75-150 HP	15	1995-1998	765192	202
Honda® 75-90 HP	15	1999 & Newer	765196	207
Honda® 115-130 HP	15	1999 & Newer	765196	207
Honda® BF 135 HP, 150 HP, 200 HP & 225 HP	15	2003 & Newer	765192	202
Mercury®/Mariner®/MerCruiser® 60 HP Bigfoot	15		765192	202
Mercury®/Mariner®/MerCruiser® 70-140 HP (Except 135 HP), XR-4, XR-6	15	1961 & Newer	765192	202
Mercury®/Mariner®/MerCruiser® 135 HP	15	1987 & Newer	765192	202
Mercury®/Mariner®/MerCruiser® 150-300 HP	15	1978 & Newer	765192	202
Nissan®/Tohatsu® 90-140 HP	15	1987 & Newer	765197	209
Suzuki® DF90, DF115 HP (4-Stroke)	15	2001 & Newer	765199	225
Suzuki® DF140 (4-Stroke)	15	2001 & Newer	765200	226
Yamaha® 80-140 HP	15	1978-1983	765192	202
Yamaha® 150-175 HP	15	1978-1983	765192	202
Yamaha® 115 HP, FS115 (4-Stroke), 130 HP	15	1984 & Newer	765193	203
Yamaha® 150-300 HP	15	1984 & Newer	765193	203
Yamaha® Sterndrives	15	1989-1993	765193	203
OMC Cobra® SX Sterndrives	19	1994 & Newer	765194	205
Volvo Penta® SX Sterndrives	19	1994 & Newer	765194	205

MICHIGAN WHEEL XHS® / XHS II™ CROSS REFERENCE

XHS® / XHS II® HUB SYSTEM CROSS REFERENCE TO MERCURY® FLO-TORQ® HUB SYSTEM

Mercury® Flo-Torq®	XHS II® Hub Kit	Mercury® Flo-Torq®	XHS II® Hub Kit
835257A1.....	202	835265Q02.....	200
835265A1.....	200	835266Q1.....	206
835266A1.....	206	835267Q1.....	201
835267A1.....	201	835270Q1.....	205
835270A1.....	205	835271Q2.....	203
835271A1.....	203	835272Q1.....	208
835272A1.....	208	835277Q1.....	202
835277A1.....	202	835279Q2.....	207
835278A1.....	207	835278Q1.....	207
835279A1.....	207	835281Q1.....	204
835281A1.....	204	835282Q1.....	210
835282A1.....	210	835283Q1.....	225
835284A1.....	209	835283Q2.....	226
835257K1.....	202	835283Q03.....	227
835257Q1.....	202	835284Q1.....	209

XHS® / XHS II® HUB SYSTEM CROSS REFERENCE TO SOLAS® RUBEX® (RBX®) HUB SYSTEM

Solas® Rubex®	XHS II® Hub Kit	Solas® Rubex®	XHS II® Hub Kit
RBX-100.....	200	RBX-107.....	207
RBX-101.....	201	RBX-108.....	208
RBX-102.....	202	RBX-109.....	209
RBX-103.....	203	RBX-110.....	210
RBX-104.....	204	RBX-125.....	225
RBX-105.....	205	RBX-126.....	226
RBX-106.....	206	RBX-150.....	227

XHS® / XHS II® HUB SYSTEM CROSS REFERENCE TO TURNING POINT® MASTERGUARD®/MASTERTORQUE® HUB SYSTEM

(MASTERGUARD® / MASTERTORQUE® HUB SYSTEMS NOT COMPATIBLE WITH MICHIGAN WHEEL XHS® PROPELLERS)

Manufacturer/ Horsepower Range	Turning Point® MasterGuard®	XHS® Hub Kit	Manufacturer/ Horsepower Range	Turning Point® MasterTorque®	XHS II® Hub Kit
Evinrude®/Johnson® 20-35 HP • 3-1/4" Gearcase (Thru Hub & 14 Tooth)	22 1120 0200	118	Evinrude®/Johnson® 90, 115, & 140 HP (4-Stroke) • 4-1/4" Gearcase (15 Tooth)	501 / 509 1150 0100/0900	See Note 4
Force® 25 HP • 3-1/4" Gearcase (Thru Hub & 10 Tooth)	21 1120 0100	120	Force® 75-150 HP • Using Mercury® 4-1/4" Gearcase (15 Tooth)	501 1150 0100	202
Mercury®/Mariner® 9.9-25 HP (Thru Hub & 10 Tooth)	21 1120 0100	120	Honda® 75-130 HP • 4-1/4" Gearcase (Thru Hub & 15 Tooth)	501 / 507 1150 0100/0700	See Note 3
Honda® 25-30 HP • 3-1/4" Gearcase (Thru Hub & 10 Tooth)	28 1120 0800	119	Mercury®/Mariner® 40-140 HP • 4-1/4" Gearcase (Thru Hub & 15 Tooth)	501 1150 0100	202
Mercury®/Mariner® 25-30 HP • Mercury 3-1/4" Gearcase (Thru Hub & 10 Tooth)	28 1120 0800	122	Nissan®/Tohatsu® 60-140 HP • 4-1/4" Gearcase (Thru Hub & 15 Tooth)	505 1150 0500	209
Nissan®/Tohatsu® 25-30 HP • 3-1/4" Gearcase (Thru Hub & 10 Tooth)	28 1120 0800	122	Suzuki® 70-140 HP (4-Stroke) • 4-1/4" Gearcase (15 Tooth)	501 / 509 1150 0100/0900	See Note 4
Yamaha® 20-30 HP • 3-1/4" Gearcase (Thru Hub & 10 Tooth)	25 1120 0500	123	Yamaha® 50-130 HP • 4-1/4" Gearcase (Thru Hub & 15 Tooth)	500 / 505 1150 0000/0500	See Note 4
Evinrude®/Johnson® 25-30 HP (4-Stroke) • 3-1/2" Gearcase (Thru Hub & 10 Tooth)	26 1120 0600	121	Evinrude®/Johnson® 40-75 HP • Large 4-1/4" Gearcase (Thru Hub & 13 Tooth)	503 1150 0300	See Note 5
Suzuki® 25-30 HP • 3-1/4" Gearcase (Thru Hub & 10 Tooth)	26 1120 0600	121	OMC® - Outboard Marine Model 400, Cobra • 4-1/4" Gearcase (Thru Hub & 13 Tooth)	503 1150 0300	206
Evinrude®/Johnson® 40-50 HP (4-Stroke) • 3-1/4" Gearcase (Thru Hub & 13 Tooth)	11 1130 0100	115	Suzuki® 60-140 HP • 4-1/4" Gearcase (Thru Hub & 13 Tooth)	506 1150 0600	210
Force® 40-75 HP • 3-1/4" Gearcase (Thru Hub & 13 Tooth)	11 1130 0100	114	Evinrude®/Johnson® 90-300 HP • V6 (4-3/4") Gearcase - Includes E-TEC Engines	502 1150 0200	See Note 2
Honda® 35-50 HP • 3-1/4" Gearcase (Thru Hub & 13 Tooth)	12 1130 0200	113	Honda® 135-225 HP • 4-3/4" Gearcase (Thru Hub & 15 Tooth)	507 1150 0700	207
Mercury®/Mariner® 25-70 HP • 3-1/4" Gearcase (Thru Hub & 13 Tooth)	11 1130 0100	114	Mercury®/Mariner®/Mercruiser® 135-300 HP • V6 (4-3/4") Gearcase & Mercruiser I/O	501 1150 0100	202
Nissan®/Tohatsu® 35-60 HP • 3-1/4" Gearcase (Thru Hub & 13 Tooth)	13 1130 0300	116	OMC® - Outboard Marine Model 800, King Cobra®, Cobra®, Sea Drive • 4-3/4" Gearcase	502 1150 0200	See Note 2
Suzuki® 35-65 HP • 3-1/4" Gearcase (Thru Hub & 13 Tooth)	11 1130 0100	115	Suzuki® 150-300 HP • 4-3/4" Gearcase (Thru Hub & 15 Tooth)	507 1150 0700	204
Yamaha® 30-60 HP • 3-1/4" Gearcase (Thru Hub & 13 Tooth)	12 1130 0200	111	Volvo Penta® SX Cobra®, Volvo Penta SX® • 4-3/4" Gearcase (19 Tooth)	504 1150 0400	205
Evinrude®/Johnson® 40-75 HP • Small 3-3/8" Gearcase (Thru Hub & 13 Tooth)	12 1130 0200	111	Yamaha® 150-300 HP & Yamaha® Sterndrives • 4-3/4" Gearcase	505 1150 0500	203

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark		Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s	
		Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade
BRP®, EVINRUDE®, JOHNSON®, OMC®										
174811	VIPER™ (LH)		937519			993054	993034	993214	See Note 2	10,44
174812	VIPER™ (LH)		937521			993055	993035	993215	See Note 2	10,44
174813	VIPER™ (LH)		937523			993056	993036	993216	See Note 2	10,44
174814	VIPER™	011008	933519		992004	993044	993024	993204	See Note 2	10,44
174815	VIPER™	011009	933521		992005	993045	993025	993205	See Note 2	10,44
174816	VIPER™	011010*	933523		992006	993046	993026	993206	See Note 2	10,44
174889	VIPER™	011007	933517		992003	993043	993023	993203	See Note 2	10,44
174890	VIPER™ (LH)		937517			993053	993033	993213	See Note 2	10,44
174926	SST II®	011006	933515		992002	993042			See Note 2	10,44
174927	SST II® (LH)				993052				See Note 2	10,44
174950		012111								2
175190		012055			992503				118	4
175191		012056	933013		992505				118	4
175738	Renegade™ Bass			963525					See Note 2	10
175739	Renegade™ Bass			963527					See Note 2	10
176058	Renegade™ Bass			963523					See Note 2	10
176196	Renegade™ Bass	011105		953422	992216	993146			See Note 5	6,7,43
176214		011024	933417		992214	993144			See Note 5	6,7,43
176215		011025	933419		992215	993145			See Note 5	6,7,43
176216		011105			992216	993146			See Note 5	6,7,43
176421		011027	933315		992312				111	5
176422		011028	933317		992303				111	5
176424					992504				118	4
176425					992506				118	4
176571	SST II®	011102	933415		992213	993143			See Note 5	6,7,43
176572	SST II®	011103	933417		992214	993144			See Note 5	6,7,43
176573	SST II®	011104	933419		992215	993145			See Note 5	6,7,43
176574	SST II®	011105		953422	992216	993146			See Note 5	6,7,43
176575	Renegade™ O.S.	011007	933517		992003	993043	993023	993203	See Note 2	10,44
176576	Renegade™ O.S.	011008	933519		992004	993044	993024	993204	See Note 2	10,44
176577	Renegade™ O.S.	011009	933521		992005	993045	993025	993205	See Note 2	10,44
176578	Renegade™ O.S. (LH)		937517			993053	993033	993213	See Note 2	10,44
176579	Renegade™ O.S. (LH)		937519			993054	993034	993214	See Note 2	10,44
176580	Renegade™ O.S. (LH)		937521			993055	993035	993215	See Note 2	10,44
176615	Swept-Blade™	011007	933517		992003	993043	993023	993203	See Note 2	10,44
176616	Swept-Blade™ (LH)		937517			993053	993033	993213	See Note 2	10,44
176617	Swept-Blade™	011008	933519		992004	993044	993024	993204	See Note 2	10,44
176618	Swept-Blade™ (LH)		937519			993054	993034	993214	See Note 2	10,44
176619	Swept-Blade™	011009	933521		992005	993045	993025	993205	See Note 2	10,44
176620	Swept-Blade™ (LH)		937521			993055	993035	993215	See Note 2	10,44
176623	VIPER™	011103	933417		992214	993144			See Note 5	6,7,43
176624	VIPER™	011104	933419		992215	993145			See Note 5	6,7,43
176625	VIPER™	011105			992216	993146			See Note 5	6,7,43
176626	VIPER™	011007	933517		992003	993043	993023	993203	See Note 2	10,44
176627	VIPER™	011008	933519		992004	993044	993024	993204	See Note 2	10,44
176628	VIPER™	011009	933521		992005	993045	993025	993205	See Note 2	10,44
176629	VIPER™ (LH)		937517			993053	993033	993213	See Note 2	10,44
176630	VIPER™ (LH)		937519			993054	993034	993214	See Note 2	10,44
176902	VIPER™ (LH)		937521			993055	993035	993215	See Note 2	10,44
176969	SST®	011008	933519		992004	993044	993024	993204	See Note 2	10,44
176970	SST®	011008	933519		992004	993044	993024	993204	See Note 2	10,44
176971	SST®	011009	933521		992005	993045	993025	993205	See Note 2	10,44
176973	SST® (LH)					993053	993033	993213	See Note 2	10,44
176999	Renegade™ O.S.	011010*	933523		992006	993046	993026	993206	See Note 2	10,44
177000	Renegade™ O.S. (LH)					993056	993036	993216	See Note 2	10,44
177034	SST®	011102	933415		992213	993143			See Note 5	6,7,43
177035	SST®	011103	933417		992214	993144			See Note 5	6,7,43
177036	SST®	011104	933419		992215	993145			See Note 5	6,7,43
177042	VIPER™	011102	933415		992213	993143			See Note 5	6,7,43
177128	Renegade™ Bass TBX™ (4)		963523						See Note 2	10
177129	Renegade™ Bass TBX™ (4)		963525						See Note 2	10
177130	Renegade™ Bass TBX™ (4)		963527						See Note 2	10
177131		011024	933417		992214	993144			See Note 5	6,7,43
177134		011007	933517		992003	993043	993023	993203	See Note 2	10,44
177135		011008	933519		992004	993044	993024	993204	See Note 2	10,44
177136		011009	933521		992005	993045	993025	993205	See Note 2	10,44
177137		011010*	933523		992006	993046	993026	993206	See Note 2	10,44
177139		011025	933419		992215	993145			See Note 5	6,7,43
177140			335033		992216	993145			See Note 5	6,7,43
177151		011102	933415		992213	993143			See Note 5	6,7,43
177153		012037			992311				111	5

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller						XHS® / XHS II® Hub Kit(s)	Catalog Page #s
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia	Apollo® 4-Blade		
BRP®, EVINRUDE®, JOHNSON®, OMC® (Continued)									
177159.....	012111.....								3
177187.....	012057.....								4
177258.....	011102.....	VIPER™	933415.....		992213.....	993143.....		See Note 5.....	6
177259.....	011103.....	VIPER™	933417.....		992214.....	993144.....		See Note 5.....	6
177265.....		Raker II®	953524.....						10,44
177266.....		Raker II®	953526.....						10,44
178811.....		VIPER™ (LH)			993054.....	993034.....	993214.....	See Note 2.....	10,44
178814.....	011008.....	VIPER™			992004.....	993044.....	993024.....	993204.....	See Note 2.....
277212.....	012011.....								3
277443.....	012011.....								3
277580.....	012024.....								4
277581.....	012024.....								4
277583.....	012011.....								3
277599.....	012011.....								3
277759.....	012008.....								2
375605.....	012109.....								3
376506.....	012011.....								3
376732.....	012024.....								4
376735.....	012109.....								3
376737.....	012011.....								3
376805.....	012011.....								3
376841.....	012109.....								3
377410.....	012023.....								4
377635.....	012007.....								2
377636.....	012011.....								3
378581.....	012023.....								3
379717.....	012109.....								3
380637.....	012024.....								3
380958.....	012005.....								2
381185.....	012091.....								44
381186.....	012092.....								44
381801.....	012011.....								3
382761.....	012147.....								6,7,43
382762.....	011101.....				992212.....			See Note 5.....	6,7,43
382763.....	011102.....		933415.....		992213.....	993143.....		See Note 5.....	6,7,43
382764.....	011103.....		933417.....		992214.....	993144.....		See Note 5.....	6,7,43
382765.....	011104.....		933419.....		992215.....	993145.....		See Note 5.....	6,7,43
382766.....	011105.....				992216.....	993146.....		See Note 5.....	6,7,43
382768.....	011105.....				992216.....	993146.....		See Note 5.....	6,7,43
383315.....	012008.....								2
383629.....	012011.....								3
384139.....	011103.....	SST®	933417.....		992214.....	993144.....		See Note 5.....	6,7,43
384140.....	011105.....	SST®			992216.....	993146.....		See Note 5.....	6,7,43
384141.....	011105.....	SST®			992216.....	993146.....		See Note 5.....	6,7,43
384142.....	011104.....	SST®	933419.....		992215.....	993145.....		See Note 5.....	6,7,43
384144.....	011102.....	SST®	933415.....		992213.....	993143.....		See Note 5.....	6,7,43
384702.....	011105.....	SST®			992216.....	993146.....		See Note 5.....	6,7,43
385319.....	012005.....								2
385940.....	012008.....	SST®							2
385955.....	012023.....								3
386118.....	012011.....								3
386317.....	012054.....				992501.....		118.....		4
386637.....	012055.....				992503.....		118.....		4
986786.....	011027.....		933315.....		992311.....		111.....		5
386841.....	011028.....				992312.....		111.....		5
386907.....	012036.....								5
386909.....	012037.....				992301.....		111.....		5
386933.....	012056.....				992505.....		118.....		4
386955.....	012005.....								2
386980.....	011028.....	SST®	933317.....		992303.....		111.....		5
386981.....	011027.....	SST®	933315.....		992312.....		111.....		5
386982.....	011035.....	SST®			992311.....		111.....		5
387158.....	011016.....				992001.....			See Note 2.....	10,44
387159.....	011006.....		933515.....		992002.....	993042.....		See Note 2.....	10,44
387160.....	011007.....		933517.....		992003.....	993043.....	993023.....	993203.....	See Note 2.....
387161.....	011008.....		933519.....		992004.....	993044.....	993024.....	993204.....	See Note 2.....
387162.....	011009.....		933521.....		992005.....	993045.....	993025.....	993205.....	See Note 2.....
387163.....	011010*		933523.....		992006.....	993046.....	993026.....	993206.....	See Note 2.....
387334.....	012008.....								2
387519.....	011008.....	SST®	933519.....		992004.....	993044.....	993024.....	993204.....	See Note 2.....
387520.....	011009.....	SST®	933521.....		992005.....	993045.....	993025.....	993205.....	See Note 2.....

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller						XHS® / XHS II® Hub Kit(s)	Catalog Page #s
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia	Apollo® 4-Blade		
BRP®, EVINRUDE®, JOHNSON®, OMC® (Continued)									
387636.....	012056								4
388088.....	012013								3
388294.....	012102								3
388883.....	012016								3
389019..... SST II®	011010*	933523			993046	993026	993206	See Note 2	10,44
389068.....	012021								3
389069.....	012015								3
389510..... SST II®	011104	933419		992215	993145			See Note 5	6,7,43
389512..... SST II®	011105			992216	993146			See Note 5	6,7,43
389619.....	012015								3
389788.....	011105		953422	992216	993146			See Note 5	6,7,43
389855.....	012023								3
389923..... SST II®	011009	933521		992005	993045	993025	993205	See Note 2	10,44
389924..... SST II®	011008	933519		992004	993044	993024	993204	See Note 2	10,44
389925..... SST®	011007	933517		992003	993043	993023	993203	See Note 2	10,44
389944.....	012030								3
389948..... SST II®	011103	933417		992214	993144			See Note 5	6,7,43
389949..... SST II®	011102	933415		992213	993143			See Note 5	6,7,43
390113..... SST®	011104	933419		992215	993145			See Note 5	6,7,43
390114..... SST®	011103	933417		992214	993144			See Note 5	6,7,43
390237.....	012032								2
390380.....	012057	933015							4
390725..... SST®		933525							10,44
390729..... SST®		933013							4
390730..... SST®		933015							4
390821..... SST II® (LH)		937519			993054	993034	993214	See Note 2	10,44
390822..... SST II® (LH)		937521			993055	993035	993215	See Note 2	10,44
390823..... SST II® (LH)		937523			993056	993036	993216	See Note 2	10,44
390833.....	012024								3
390849..... SST®	011035			992311			111		5
390850..... SST®	011027	933315		992312			111		5
390851..... SST®	011028	933317		992303			111		5
390896.....	011104	933419		992215	993145			See Note 5	6,7,43
391198.....	011102	933415		992213	993143			See Note 5	6,7,43
391199.....	011103	933417		992214	993144			See Note 5	6,7,43
391200.....	011007	933517		992003	993043	993023	993203	See Note 2	10,44
391201.....	011008	933519		992004	993044	993024	993204	See Note 2	10,44
391202.....	011009	933521	953522	992005	993045	993025	993205	See Note 2	10,44
391203.....	011010*	933523	953524	992006	993046	993026	993206	See Note 2	10,44
391290..... SST II®	011007	933517		992003	993043	993023	993203	See Note 2	10,44
391535.....	011006	933515		992002	993042	993022		See Note 2	10,44
391536.....	011016			992001				See Note 2	10,44
391668.....	011101								6,7,43
393160.....	011025			992215	993145			See Note 5	6,7,43
394752..... Raker®	011007	933517		992003	993043		993203	See Note 2	10,44
394753..... Raker®	011008	933519		992004	993044		993204	See Note 2	10,44
394754..... Raker®	011009	933521	953522	992005	993045		993205	See Note 2	10,44
394755..... Raker®	011010*	933523	953524	992006	993046		993206	See Note 2	10,44
394756..... Raker®		933525	953526						10,44
394758..... Raker®	011103	933417		992214	993144			See Note 5	6,7,43
394759..... Raker®	011104	933419		992215	993145			See Note 5	6,7,43
394760..... Raker®	011105		953422	992215	993146			See Note 5	6,7,43
394761..... Raker®			953424						7
398126.....	012112								2
398502..... Raker® (LH)		937519			993054		993214	See Note 2	10,44
398503..... Raker® (LH)		937521			993055		993215	See Note 2	10,44
398504..... Raker® (LH)					993056		993216	See Note 2	10,44
431717..... Shooter®			963523						10
431718..... Shooter®			963525						10
431930..... SST II® (LH)		937517			993053		993213	See Note 2	10,44
591920.....	012024								3
591925.....	012011								3
592038.....	012011								3
592959.....	012011								3
763301.....	012147								6,7,43
763302.....	011101			992212				See Note 5	6,7,43
763304.....		933515		992002	993042	993022	205		45
763305.....					993052	993032	205		45
763306.....	161002	933517		992003	993043	993023	993203	205	45
763307.....		937517			993053	993033	993213	205	45
763308.....	161003	933519		992004	993044	993024	993204	205	45

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s	
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade
BRP®, EVINRUDE®, JOHNSON®, OMC® (Continued)									
763309					993054	993034	993214	205	45
763310	161004	933521		992005	993045	993025	993205	205	45
763311		937521			993055	993035	993215	205	45
763315	161001	933515		992002	993042	993022		205	45
763316	161002	933517		992003	993043	993023	993203	205	45
763317	161003	933519		992004	993044	993024	993204	205	45
763318	161004	933521		992005	993045	993025	993205	205	45
763319	161005	933523		992006	993046	993026	993206	205	45
763453	011016			992001				See Note 2	10,44
763456	012112								2
763459	012055			992503				118	4
763460				992504				118	4
763461	012037			992311				111	5
763462	011028	933317		992303				111	5
763463	011103	933417		992214	993144			See Note 5	6,7,43
763464	011104	933419		992215	993145			See Note 5	6,7,43
763465	011105			992216	993146			See Note 5	6,7,43
763466	011102	933415		992213	993143			See Note 5	6,7,43
763467	011007	933517		992003	993043	993023	993203	See Note 2	10,44
763468	011008	933519		992004	993044	993024	993204	See Note 2	10,44
763469	011009	933521		992005	993045	993025	993205	See Note 2	10,44
763470		933523		992006	993046	993026	993206	See Note 2	10,44
763471	011006	933515		992002	993042			See Note 2	10,44
763486	012057	933015							4
763487	012054			992501				118	4
763488	012036								5
763568	Rebel™	011007	933517	992003	993043	993023	993203	See Note 2	10,44
763569	Rebel™ (LH)		937517		993053	993033	993213	See Note 2	10,44
763570	Rebel™	011008	933519	992004	993044	993024	993204	See Note 2	10,44
763571	Rebel™ (LH)		937519		993054	993034	993214	See Note 2	10,44
763572	Rebel™	011009	933521	992005	993045	993025	993205	See Note 2	10,44
763573	Rebel™ (LH)		937521		993055	993035	993215	See Note 2	10,44
763574	Rebel™	011010*	933523	992006	993046	993026	993206	See Note 2	10,44
763575	Rebel™ (LH)				993056	993036	993216	See Note 2	10,44
763583		012011							3
763584		012016							3
763585		012021							3
763586		012007							2
763587		012109							3
763588		012005							2
763589		012015							3
763590		012030							3
763912	VIPER™ TBX™		933515		993042			See Note 2	10,44
763913	VIPER™ TBX™ (LH)				993052			See Note 2	10,44
763914	VIPER™ TBX™	011007	933517	992003	993043	993023	993203	See Note 2	10,44
763915	VIPER™ TBX™ (LH)		937517		993053	993033	993213	See Note 2	10,44
763918	VIPER™ TBX™	011008	933519	992004	993044	993024	993204	See Note 2	10,44
763919	VIPER™ TBX™ (LH)		937519		993054	993034	993214	See Note 2	10,44
763922	VIPER™ TBX™	011009	933521	992005	993045	993025	993205	See Note 2	10,44
763923	VIPER™ TBX™ (LH)		937521		993055	993035	993215	See Note 2	10,44
763929	VIPER™ 3	011102	933415	992213	993143			See Note 5	6
763930	VIPER™ 3	011103	933417	992214	993144			See Note 5	6
763931	VIPER™ 3	011104	933419	992215	993145			See Note 5	6
763932	VIPER™ 3	011105		992216	993146			See Note 5	6
763938	Cyclone™ TBX™ 4			992202			993203	See Note 2	10,44
763939	Cyclone™ TBX™ 4 (LH)						993213	See Note 2	10,44
763940	Cyclone™ TBX™ 4			992203			993204	See Note 2	10,44
763941	Cyclone™ TBX™ 4 (LH)						993214	See Note 2	10,44
763944	Cyclone™ TBX™ 4			992204			993205	See Note 2	10,44
763945	Cyclone™ TBX™ 4 (LH)						993215	See Note 2	10,44
763950		011102	933415	992213	993143			See Note 5	6,7
763951		011103	933417	992214	993144			See Note 5	6,7
763952		011104	933419	992215	993145			See Note 5	6,7
763956	Raker®		953424					206	7
763962	SST® TBX™		933515	992002	993042			See Note 2	10,44
763963	SST® TBX™ (LH)				993052			See Note 2	10,44
763964	Rogue™ Stainless Steel			941413				See Note 5	6,7,8
763965	Rogue™ Stainless Steel			941415				See Note 5	6,7,8
763966	Rogue™ Stainless Steel			941417				See Note 5	6,7,8
763967	Rogue™ Stainless Steel			941419				See Note 5	6,7,8
763986	Rebel™ TBX™	011007	933517	992003	993043	993023	993203	See Note 2	10,44

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s		
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade	
BRP®, EVINRUDE®, JOHNSON®, OMC® (Continued)										
763987	Rebel™ TBX™ (LH)		937517		993053	993033	993213	See Note 2	10,44	
763990	Rebel™ TBX™	011008	933519		992004	993044	993024	993204	See Note 2	10,44
763991	Rebel™ TBX™ (LH)		937519		993054	993034	993214	See Note 2	10,44	
763994	Rebel™ TBX™	011009	933521		992005	993045	993025	993205	See Note 2	10,44
763995	Rebel™ TBX™ (LH)		937519		993055	993035	993215	See Note 2	10,44	
763998	Rebel™ TBX™	011010*	933523		992006	993046	993026	993206	See Note 2	10,44
763999	Rebel™ TBX™ (LH)				993056	993036	993216	See Note 2	10,44	
765048	Aluminum	012054			992501		118		4	
765049	Aluminum	012055			992503		118		4	
765050	Aluminum				992504		118		4	
765176	SSP	012055			992503		118		4	
765178	SSP	012056	933013		992505		118		4	
765180	SSP	012057	933015				118		4	
765181		011101			992212			See Note 5	6,7,43	
765182					992213	993143		See Note 5	6,7,43	
765183					992214	993144		See Note 5	6,7,43	
765184					992215	993145		See Note 5	6,7,43	
765185					992216	993146		See Note 5	6,7,43	
765186			933515		992002	993042		See Note 2	10,44	
765187		011007	933517		992003	993043	993023	993203	See Note 2	10,44
765188		011008	933519		992004	993044	993024	993204	See Note 2	10,44
765189		011009	933521		992005	993045	993025	993205	See Note 2	10,44
775713		012037			992311		111		5	
776807		032046							5	
776891		011101			992212			See Note 5	6,7,43	
777021	SST® High Luster	032042	993213		992605	993406	115		5	
777022	SST® High Luster	032041			992606	993407	115		5	
777023	SST® High Luster	032040	933215		992408	993408	115		5	
777024		061024			992214	993144		See Note 4	8	
777025		061028			992215	993145		See Note 4	8	
777026		061032			992216	993146		See Note 4	8	
777029						993154		See Note 4	8	
777030						993155		See Note 4	8	
777031						993156		See Note 4	8	
778606		032045							5	
778607		032044			992404		115		5	
778608		032043			992405	993405	115		5	
778609		032042	993213		992406	993406	115		5	
778610		032041			992407	993407	115		5	
778703					992503		121		4	
778704					992504		121		4	
778705			933013		992505		121		4	
778706					992506		121		4	
778738		061020							8	
778739		061024							8	
778740		061028							8	
778741		061032							8	
778772		012111							3	
778774		011027	933315		992302		111		5	
778797		012032							2	
778863		012056	933013		992505		118		4	
5005384		062103							2	
5005385		062104							2	
5031619		032042	993213		992406	993406	115		5	
5031627		032040	933215		992408	993408	115		5	
5031628					992409		115		5	
5032107					992502		121		4	
5032108					992503		121		4	
5032109					992504		121		4	
5032110			933013		992505		121		4	
5032171					992501		121		4	
5033201		062103							2	
5033203		062105							2	
5033322		061020	933415		992213	993143		See Note 4	8	
5033323		061024	933417		992214	993144		See Note 4	8	
5033324		061028	933419		992215	993145		See Note 4	8	
5033325		061032	933421		992216	993146		See Note 4	8	
5033327		061024	933417		992214	993144		See Note 4	8	
5033328		061028	933419		992215	993145		See Note 4	8	
5033329		061032	933421		992216	993146		See Note 4	8	
5040538		142102							2	

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade

BRP®, EVINRUDE®, JOHNSON®, OMC® (Continued)

5040590.....	142204							3
5040591.....	142205							3
5040592.....	142206							3

FORCE®, CHRYSLER, U.S. MARINE

48-16986A45.....	Vengeance.....	031141	933415		992213	993143	202	14
48-16986A5.....	QSS™.....	031141	933415		992213	993143	202	14
48-16988A40.....	QSS™.....	031142	933417		992214	993144	202	14
48-16988A45.....	Vengeance.....	031142	933417		992214	993144	202	14
48-16990A45.....	Laser II™.....	031143	933419		992215	993145	202	14
48-16992A45.....	Laser II™.....	031144	933421	953422	992216	993146	202	14
48-19636A10.....					992501		120	11
48-19638A40.....	Black Max™.....	031049			992503		120	11
48-19639A40.....	Black Max™.....				992504		120	11
48-19640A40.....	Black Max™.....	031048	933013		992505		120	11
48-19642A40.....	Black Max™.....				992506		120	11
48-42738A10.....	Black Max™.....	032141						12
48-42740A10.....	Black Max™.....	032142						12
48-64724A4.....		031020						12
48-73132A40.....	Black Max™.....	031015						12
48-73134A4.....	Black Max™.....	031016			992405	993405	114	12
48-73134A40.....	Black Max™.....	031016			992405	993405	114	12
48-73136A4.....	Black Max™.....	031017	933213		992406	993406	114	12
48-73136A40.....	Black Max™.....	031017	933213		992406	993406	114	12
48-73138A4.....	Black Max™.....	031018			992407	993407	114	12
48-73138A40.....	Black Max™.....	031018			992407	993407	114	12
48-73140A4.....	Black Max™.....	031019	933215		992408	993408	114	12
48-73140A40.....	Black Max™.....	031019	933215		992408	993408	114	12
48-73142A40.....	Black Max™.....				992409		114	12
48-73144A40.....	Black Max™.....	031020						12
48-76228A4.....	QSS™.....	031017	933213		992406	993406	114	12
48-76228A5.....	Vengeance.....	031017	933213		992406	993406	114	12
48-76230A4.....	QSS™.....	031018			992407	993407	114	12
48-76230A5.....	Vengeance.....	031018			992407	993407	114	12
48-76232A4.....	QSS™.....	031019	933215		992408	993408	114	12
48-76232A5.....	Vengeance.....	031019	933215		992409	993408	114	12
48-77338A45.....	Black Max™.....	031154						14
48-77338CP1.....	Pontoon.....	031200						14
48-77340A40.....	Black Max™.....	031155			992212		202	14
48-77340A45.....	Black Max™.....	031155			992212		202	14
48-77338CP1.....	Pontoon.....	031202						14
48-77342A40.....	Black Max™.....	031141	933415		992213	993143	202	14
48-77342A45.....	Black Max™.....	031141	933415		992213	993143	202	14
48-77344A40.....	Black Max™.....	031142	933417		992214	993144	202	14
48-77344A45.....	Black Max™.....	031142	933417		992214	993144	202	14
48-77346A40.....	Black Max™.....	031143	933419		992215	993145	202	14
48-77346A45.....	Black Max™.....	031143	933419		992215	993145	202	14
48-77348A40.....	Black Max™.....	031144	933421	953422	992216	993146	202	14
48-77348A45.....	Black Max™.....	031144	933421	953422	992216	993146	202	14
48-77350A40.....	Black Max™.....	031045*						14
48-77350A45.....	Black Max™.....	031045*						14
48-79792A4.....	QSS™.....	031016			992405	993405	114	12
48-79792A5.....	Vengeance.....	031016			992405	993405	114	12
48-816702A40.....		031056			992405	993405	114	12
48-816704A40.....		031057			992406	993406	114	12
48-816706A40.....		031058	933213		992407	993407	114	12
48-819334A40.....		072133						12
48-819335A40.....		072132						12
48-819336A40.....		072131						12
48-819337A40.....		072014						12
48-819337A45.....		072014						12
48-855858A5.....	Vengeance.....	031057			992406	993406	114	12
48-85632A40.....	Black Max™.....	031053			992404		114	12
48-FP488.....		072123						11
48-FP669-1.....		071035			992213	993143	202	13
48-FP669-2.....		071035			992213	993143	202	13
48-FP669-3.....		071035			992213	993143	202	13
48-FP685-1.....		071036			992214	993144	202	13
48-FP685-2.....		071036			992214	993144	202	13
48-FP685-3.....		071036			992214	993144	202	13
48-FP686-1.....					992215	993145	202	13

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade

FORCE®, CHRYSLER, U.S. MARINE (Continued)

48-FP686-3				992215	993145		202	13
48-FP686-4				992215	993145		202	13
48-FP692-1	072127			992213	993143		202	13
48-FP692-2	072127			992213	993143		202	13
48-FP692-3	072127			992213	993143		202	13
48-FP694				992216	993146		202	13
FA282265	072132							12
FA287265	072131							12
FA378265	072132							12
FP273	072133							12
FP274	072014							13
FP276	072014							13
FP277	072131							12
FP278	072014							13
FP282	072132							12
FP287	072131							12
FP293	072132							12
FP328	072014							13
FP366	072014							13
FP378	072132							12
FP519	072055							13
FP523	072107							13
FP524	072108							13
FP623	072107							13
FP654	072108							13
FP665	071035							13
FP669	071035							13
FP669-1	071035							13
FP682	072127							13
FP685-1	072128							13
FP692	072127							13
FP692-1	072127							13
FPM736	031020							12
FPM738	031019			992408	993408		114	12
FPM752	031058	933213		992407	993407		114	12
FPM754	031056			992405	993405		114	12
FPM756	031015							12
FPS523	072107							13
FPS524	072108							13
FPS623	072107							13
FPS625	072108							13
FPS626	072109							13
FPS654	072108							13

HONDA®

08M60-ZW7-A10	Turbo 3-Blade	031142	933417	992214	993144		See Note 3	17
08M60-ZW7-A20	Turbo 3-Blade	031143	933419	992215	993145		See Note 3	17
08M60-ZW7-A30	Turbo 3-Blade	031144	933421	992216	993146		See Note 3	17
08M60-ZW7-B00	Turbo 3-Blade (LH)				993153		See Note 3	17
08M60-ZW7-B10	Turbo 3-Blade (LH)				993154		See Note 3	17
08M60-ZW7-B20	Turbo 3-Blade (LH)				993155		See Note 3	17
08M60-ZW7-B30	Turbo 3-Blade (LH)				993156		See Note 3	17
58110-ZV4-300		102005						15
58110-ZV5-E00	Turbo 3-Blade	032040	933215	992408	993408		113	16
58110-ZV5-E10	Turbo 3-Blade	032041		992606	993407		113	16
58110-ZV5-E20	Turbo 3-Blade	032042	993213	992605	993406		113	16
58110-ZV5-E30	Turbo 3-Blade	032043		992405	993405		113	16
58130-881-840ZA		012109						15
58130-881-840ZB		012109						15
58130-935-000N		012109						15
58130-935-600N		012109						15
58130-ZV4-000ZA		102005						15
58130-ZV4-008AH	Solas® Honda	102003						15
58130-ZV4-009AH	Solas® Honda	102004						15
58130-ZV4-010ZA	Solas® Honda	102005						15
58130-ZV4-020ZA		102005						15
58130-ZV4-030ZA		102005						15
58130-ZV4-030ZB		102005						15
58130-ZV4-700ZA		102004						15
58130-ZV4-701ZA		102004						15
58130-ZV4-702ZA		102004						15

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade
HONDA® (Continued)								
58130-ZV4-703ZA	102004							15
58130-ZV4-703ZB	102004							15
58130-ZV5-000ZA	032042	993213		992605	993406		113	16
58130-ZV5-011AH	Solas® Honda 032044			992603	993404		113	16
58130-ZV5-012AH	Solas® Honda 032043			992604	993405		113	16
58130-ZV5-013AH	Solas® Honda 032042			992605	993406		113	16
58130-ZV5-014AH	Solas® Honda 032041			992606	993407		113	16
58130-ZV5-015AH	Solas® Honda 032040			992408	993408		113	16
58130-ZV5-850ZA	032043			992604	993405		113	16
58130-ZV5-860ZA	032045			992603			113	16
58130-ZV5-870ZA	032040	933215		992408	993408		113	16
58130-ZV7-009AH	Solas® Honda			992501			119	15
58130-ZV7-010AH	Solas® Honda			992502			119	15
58130-ZV7-011AH	Solas® Honda			992503			119	15
58130-ZV7-012AH	Solas® Honda			992504			119	15
58130-ZV7-013AH	Solas® Honda	933013		992505			119	15
58130-ZW1-011AH	Solas® Honda 031154			992209			See Note 3	17
58130-ZW1-013AH	Solas® Honda 031155			992212			See Note 3	17
58130-ZW1-015AH	Solas® Honda 031141	933415		992213	993143		See Note 3	17
58130-ZW1-015B	Solas® Honda (LH)				993153		See Note 3	17
58130-ZW1-017AH	Solas® Honda 031142	933417		992214	993144		See Note 3	17
58130-ZW1-017B	Solas® Honda (LH)				993154		See Note 3	17
58130-ZW1-019AH	Solas® Honda 031143	933419		992215	993145		See Note 3	17
58130-ZW1-021AH	Solas® Honda 031144	933421	953422	992216	993146		See Note 3	17
58130-ZW1-V01	031142	933417		992214	993144		See Note 3	17
58130-ZW1-V11	031143	933419		992215	993145		See Note 3	17
58130-ZW1-V31	031144	933421	953422	992216	993146		See Note 3	17
58130-ZW1-W01ZA	031154			992209			See Note 3	17
58130-ZW1-W11ZA	031155			992212			See Note 3	17
58130-ZW1-W21ZA	031141	933415		992213	993143		See Note 3	17
58130-ZW1-W31ZA	031142	933417		992214	993144		See Note 3	17
58130-ZW1-W41ZA	031144	933421	953422	992216	993146		See Note 3	17
58130-ZW1-W51ZA	031045*							17
58130-ZW1-W61ZA	031143	933419		992215	993145		See Note 3	17
58130-ZW1-W91	031141	933415		992213	993143		See Note 3	17
58130-ZY3-013A	Solas® Honda 031022			992001			207	18
58130-ZY3-015A	Solas® Honda 031023	933515		992002	993042	993022	207	18
58130-ZY3-017A	Solas® Honda 031024	933517		992003	993043	993023	993203	207
58130-ZY3-017AP	Solas® Honda 031064	933517		992003	993043	993023	993203	207
58130-ZY3-017B	Solas® Honda (LH)	937517			993053	993033	993213	207
58130-ZY3-017BP	Solas® Honda (LH)	937517			993053	993033	993213	207
58130-ZY3-017P	Solas® Honda 031064	933517		992003	993043	993023	993203	207
58130-ZY3-019A	Solas® Honda 031025	933519		992004	993044	993024	993204	207
58130-ZY3-019AP	Solas® Honda 031065	933519		992004	993044	993024	993204	207
58130-ZY3-019B	Solas® Honda (LH)	937519			993054	993034	993214	207
58130-ZY3-021A	Solas® Honda 031026	933521		992005	993045	993025	993205	207
58130-ZY3-021B	Solas® Honda (LH)	937521			993055	993035	993215	207
58130-ZY3-023A	Solas® Honda	933523		992006	993046	993026	993206	207
58130-ZY3-15B	Solas® Honda				993052		207	18
58133-ZV4-008AH	Solas® Saturn 102003							15
58133-ZV4-009AH	Solas® Saturn 102004							15
58133-ZV4-010AH	Solas® Saturn 102005							15
58133-ZV5-012AH	Solas® Saturn 032043			992604	993405		113	16
58133-ZV5-013AH	Solas® Saturn 032042	993213		992605	993406		113	16
58133-ZV5-014AH	Solas® Saturn 032041			992606	993407		113	16
58133-ZV5-015AH	Solas® Saturn 032040	933215		992408	993408		113	16
58133-ZV7-013AH	Solas® Saturn 933013			992505			119	15
58133-ZW1-A11P	Solas® New Saturn 031200							17
58133-ZW1-A13P	Solas® New Saturn 031202							17
58133-ZW1-A15AH	Solas® Titan 031141	933415		992213	993143		See Note 3	17
58133-ZW1-A15HR	Solas® Titan HR3 031141	933415		992213	993143		See Note 3	17
58133-ZW1-A17AH	Solas® Titan 031142	933417		992214	993144		See Note 3	17
58133-ZW1-A17HR	Solas® Titan HR3 031142	933417		992214	993144		See Note 3	17
58133-ZW1-A19AH	Solas® Titan 031143	933419		992215	993145		See Note 3	17
58133-ZW1-A19HR	Solas® Titan HR3 031143	933419		992215	993145		See Note 3	17
58133-ZW1-A21HR	Solas® Titan HR3 031144	933421		992216	993146		See Note 3	17
58133-ZW1-B15AH	Solas® Titan (LH)				993153		See Note 3	17
58133-ZW1-B17AH	Solas® Titan (LH)				993154		See Note 3	17
58133-ZW1-B17HR	Solas® Titan HR3 (LH)				993154		See Note 3	17
58133-ZW1-B19AH	Solas® Titan (LH)				993155		See Note 3	17
58133-ZW1-B19HR	Solas® Titan HR3 (LH)				993155		See Note 3	17

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller						XHS® / XHS II® Hub Kit(s)	Catalog Page #s
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia	Apollo® 4-Blade		
HONDA® (Continued)									
58133-ZW1-B21HR	Solas® Titan HR3 (LH)				993156			See Note 3	17
58133-ZY3-A15AH	Solas® New Saturn	031023	933515		992002	993042		207	18
58133-ZY3-A15LX	Solas® Lexor	031024	933517		992003	993043	993023	993203	207
58133-ZY3-A15S	Solas® Titan	031023	933515		992002	993042		207	18
58133-ZY3-A17AH	Solas® Titan HR3	031024	933517		992003	993043	993023	993203	207
58133-ZY3-A17HR	Solas® Titan HR3	031024	933517		992003	993043	993023	993203	207
58133-ZY3-A17LX	Solas® Lexor	031065	933519		992004	993044	993024	993204	207
58133-ZY3-A17S	Solas® Titan	031024	933517		992003	993043	993023	993203	207
58133-ZY3-A19AH	Solas® Titan HR3	031065	933519		992004	993044	993024	993204	207
58133-ZY3-A19HR	Solas® Titan HR3	031065	933519		992004	993044	993024	993204	207
58133-ZY3-A19LX	Solas® Lexor	031026	933521		992005	993045	993025	993205	207
58133-ZY3-A19S	Solas® Titan	031065	933519		992004	993044	993024	993204	207
58133-ZY3-A21AH	Solas® Titan HR	031026	933521		992005	993045	993025	993205	207
58133-ZY3-A21HR	Solas® Titan HR	031026	933521		992005	993045	993025	993205	207
58133-ZY3-A21LX	Solas® Lexor		933523		992006	993046	993026	993206	207
58133-ZY3-A21S	Solas® Titan	031026	933521		992005	993045	993025	993205	207
58133-ZY3-A23S	Solas® Titan		933523		992006	993046	993026	993206	207
58133-ZY3-A25AH			933525					207	18
58133-ZY3-B15AH	Solas® New Saturn (LH)				993052			207	18
58133-ZY3-B15LX	Solas® Lexor (LH)		937517		993053	993033	993213	207	18
58133-ZY3-B17AH	Solas® New Saturn (LH)		937517		993053	993033	993213	207	18
58133-ZY3-B17HR	Solas® Titan HR3 (LH)		937517		993053	993033	993213	207	18
58133-ZY3-B17S	Solas® Titan (LH)		937517		993053	993033	993213	207	18
58133-ZY3-B19AH	Solas® New Saturn (LH)		937519		993054	993034	993214	207	18
58133-ZY3-B19HR	Solas® Titan HR3 (LH)		937519		993054	993034	993214	207	18
58133-ZY3-B19LX	Solas® Lexor (LH)		937521		993055	993035	993215	207	18
58133-ZY3-B19S	Solas® Titan (LH)		937519		993054	993034	993214	207	18
58133-ZY3-B21AH	Solas® New Saturn (LH)		937521		993055	993035	993215	207	18
58133-ZY3-B21HR	Solas® Titan HR3 (LH)		937521		993055	993035	993215	207	18
58133-ZY3-B21LX	Solas® Lexor (LH)		937523		993056	993036		207	18
58133-ZY3-B21S	Solas® Titan (LH)		937521		993055	993035	993215	207	18
58133-ZY3-B23S	Solas® Titan (LH)		937523		993056	993036	993216	207	18
58134-ZV5-009AH					992402			113	16
58134-ZV5-010AH					992403			113	16
58134-ZW1-013AH	Solas® Honda				941413			See Note 3	17
58134-ZW1-015AH	Solas® Honda				941415			See Note 3	17
58134-ZW1-017AH	Solas® Honda				941417			See Note 3	17
58134-ZW1-019AH	Solas® Honda				941419			See Note 3	17
58134-ZY3-017A	Solas® Honda				992202		993203	207	18
58134-ZY3-017B	Solas® Honda (LH)						993213	207	18
58134-ZY3-019A	Solas® Honda				992203		993204	207	18
58134-ZY3-019B	Solas® Honda (LH)						993214	207	18
58134-ZY3-021A	Solas® Honda				992204		993205	207	18
58134-ZY3-021B	Solas® Honda (LH)						993215	207	18
58134-ZY3-A18HR	Solas® Titan HR4						993204	207	18
58134-ZY3-A20HR	Solas® Titan HR4						993205	207	18
58134-ZY3-A21HR	Solas® Titan HR4						993205	207	18
58134-ZY3-B18HR	Solas® Titan HR4 (LH)						993214	207	18
58134-ZY3-B20HR	Solas® Titan HR4 (LH)						993215	207	18
58134-ZY3-B21HR	Solas® Titan HR4 (LH)						993215	207	18
58233-ZY3-A15H	Turbo 3-Blade	031023	933515		992002	993042		207	18
58233-ZY3-A17H	Turbo 3-Blade	031024	933517		992003	993043	993023	993203	207
58233-ZY3-A19H	Turbo 3-Blade	031025	933519		992004	993044	993024	993204	207
58233-ZY3-A21H	Turbo 3-Blade	031026	933521		992005	993045	993025	993205	207
58233-ZY3-A23H	Turbo 3-Blade	031027	933523		992006	993046	993026	993206	207
58233-ZY3-A23HP	Turbo Performance	031027	933523		992006	993046	993026	993206	207
58233-ZY3-A25H	Turbo 3-Blade		933525					207	18
58233-ZY3-B15H	Turbo 3-Blade (LH)				993052			207	18
58233-ZY3-B17H	Turbo 3-Blade (LH)		937517		993053	993033	993213	207	18
58233-ZY3-B19H	Turbo 3-Blade (LH)		937519		993054	993034	993214	207	18
58233-ZY3-B21H	Turbo 3-Blade (LH)		937521		993055	993035	993215	207	18
58233-ZY3-B23H	Turbo 3-Blade (LH)		937523		993056	993036	993216	207	18
58234-ZY3-A20H	Turbo 4-Blade						993205	207	18
58234-ZY3-A22H	Turbo 4-Blade				963523		993206	207	18
58234-ZY3-A23HP	Turbo 4-Blade Perf.				963523		993206	207	18
58333-ZY3-A15CL	PowerTech OFS		933515					207	18
58333-ZY3-A17CL	PowerTech OFS	031024	933517		992003	993043	993023	993203	207
58333-ZY3-A19CL	PowerTech OFS	031025	933519		992004	993044	993024	993204	207
58333-ZY3-A21CL	PowerTech OFS	031026	933521		992005	993045	993025	993205	207
58333-ZY3-A23CL	PowerTech OFS	031027	933523		992006	993046	993026	993206	207
58333-ZY3-B17CL	PowerTech OFS (LH)		937517		993053	993033	993213	207	18

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark		Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s		
		Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade	
HONDA® (Continued)											
58333-ZY3-B19CL	PowerTech OFS (LH)		937519				993054	993034	993214	207	18
58333-ZY3-B21CL	PowerTech OFS (LH)		937521				993055	993035	993215	207	18
58333-ZY3-B23CL	PowerTech OFS (LH)		937523				993056	993036	993216	207	18
MERCURY®, MARINER®, MERCUISER®											
48-11070A40	Laser™		933521	953522			993045	993025	993205	202	24,41
48-11074A40	Laser™		933523	953524			993046	993026	993206	202	24,41
48-11320A40	Black Max™	031050			992002		993042			202	24,41
48-11322A40	Black Max™	031051			992003		993043	993023	993203	202	24,41
48-11324A40	Black Max™	031052	933519		992004		993044	993024	993204	202	24,41
48-11324A45	Black Max™	031052	933519		992004		993044	993024	993204	202	24,41
48-13242A50	Mirage®	031065	933519		992004		993044	993024	993204	202	24,41
48-13243A50	Mirage® (LH)		937521				993055	993035	993215	202	24,41
48-13244A50	Mirage®	031066	933521		992005		993045	993025	993205	202	24,41
48-13245A50	Mirage® (LH)		937523				993056	993036	993216	202	24,41
48-13700A46	Mirage® Plus							993024		202	24,41
48-13701A40	Mirage® (LH)		937519							202	24,41
48-13701A41	Mirage® (LH)		937519							202	24,41
48-13701A45	Mirage® Plus (LH)		937519							202	24,41
48-13701A46	Mirage® Plus (LH)		937519				993054	993034	993214	202	24,41
48-13702A40	Mirage®	031066	933521		992005		993045	993025	993205	202	24,41
48-13702A45	Mirage® Plus	031066	933521		992005		993045	993025	993205	202	24,41
48-13702A46	Mirage® Plus	031066	933521		992005		993045	993025	993205	202	24,41
48-13702A55	Mirage® Plus	031066	933521		992005		993045	993025	993205	202	24,41
48-13703A40	Mirage® (LH)		937521				993055	993035	993215	202	24,41
48-13703A41	Mirage® (LH)		937521				993055	993035	993215	202	24,41
48-13703A45	Mirage® Plus (LH)		937521				993055	993035	993215	202	24,41
48-13703A46	Mirage® Plus (LH)		937521				993055	993035	993215	202	24,41
48-13703A55	Mirage® Plus (LH)		937521				993055	993035	993215	202	24,41
48-13704A40	Mirage®		933523		992006		993046	993026	993206	202	24,41
48-13704A41	Mirage®		933523		992006		993046	993026	993206	202	24,41
48-13704A45	Mirage® Plus		933523		992006		993046	993026	993206	202	24,41
48-13704A46	Mirage® Plus		933523		992006		993046	993026	993206	202	24,41
48-13705A40	Mirage® (LH)		937523				993056	993036	993216	202	24,41
48-13705A41	Mirage® (LH)		937523				993056	993036	993216	202	24,41
48-13705A45	Mirage® Plus (LH)		937523				993056	993036	993216	202	24,41
48-13705A46	Mirage® Plus (LH)		937523				993056	993036	993216	202	24,41
48-13705A55	Mirage® Plus (LH)		937523				993056	993036	993216	202	24,41
48-13706A40	Mirage®		933525							202	24,41
48-13706A41	Mirage®		933525							202	24,41
48-13706A45	Mirage® Plus		933525							202	24,41
48-13706A46	Mirage® Plus		933525							202	24,41
48-16312A45	Vengeance	031023	933515		992002		993042			202	24,41
48-16312A46	Vengeance	031023	933515		992002		993042			202	24,41
48-16314A45	Vengeance	031064	933517		992003		993043	993023	993203	202	24,41
48-16314A46	Vengeance	031064	933517		992003		993043	993023	993203	202	24,41
48-16315A45	Vengeance (LH)		937517				993053	993033	993213	202	24,41
48-16315A46	Vengeance (LH)		937517				993053	993033	993213	202	24,41
48-16316A45	Vengeance	031065	933519		992004		993044	993024	993204	202	24,41
48-16316A46	Vengeance	031065	933519		992004		993044	993024	993204	202	24,41
48-16317A45	Vengeance (LH)		937519				993054	993034	993214	202	24,41
48-16317A46	Vengeance (LH)		937519				993054	993034	993214	202	24,41
48-16318A45	Vengeance	031066	933521		992005		993045	993025	993205	202	24,41
48-16318A46	Vengeance	031066	933521		992005		993045	993025	993205	202	24,41
48-16319A45	Vengeance (LH)		937521				993055	993035	993215	202	24,41
48-16319A46	Vengeance (LH)		937521				993055	993035	993215	202	24,41
48-16320A5	QSS™		933523		992006		993046	993026	993206	202	24,41
48-16321A4	QSS™		933523		992006		993046	993026	993206	202	24,41
48-16320A45	Vengeance		933523		992006		993046	993026	993206	202	24,41
48-16320A46	Vengeance		933523		992006		993046	993026	993206	202	24,41
48-16320A5	QSS™		933523		992006		993046	993026	993206	202	24,41
48-16321A45	Vengeance (LH)		937523				993056	993036	993216	202	24,41
48-16321A46	Vengeance (LH)		937523				993056	993036	993216	202	24,41
48-16322A4	QSS™		933525							202	24,41
48-16322A46	Vengeance		933525							202	24,41
48-16438A40	Black Max™	031050			992002		993042			202	24,41
48-16438A45	Black Max™	031050			992002		993042			202	24,41
48-16440A40	Black Max™	031051			992003		993043	993023	993203	202	24,41
48-16440A45	Black Max™	031051			992003		993043	993023	993203	202	24,41
48-16543A40	Laser II™ (LH)		937519				993054	993034	993214	202	24,41
48-16543A41	Laser II™ (LH)		937519				993054	993034	993214	202	24,41

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark		Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s	
		Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade
MERCURY®, MARINER®, MERCURISER® (Continued)										
48-16543A45	Laser II™ (LH)		937519			993054	993034	993214	202	24,41
48-16543A46	Laser II™ (LH)		937519			993054	993034	993214	202	24,41
48-16544A40	Laser II™	031065	933519		992004	993044	993024	993204	202	24,41
48-16544A41	Laser II™	031065	933519		992004	993044	993024	993204	202	24,41
48-16544A45	Laser II™	031065	933519		992004	993044	993024	993204	202	24,41
48-16544A46	Laser II™	031065	933519		992004	993044	993024	993204	202	24,41
48-16545A40	Laser II™ (LH)		937521			993055	993035	993215	202	24,41
48-16545A41	Laser II™ (LH)		937521			993055	993035	993215	202	24,41
48-16545A45	Laser II™ (LH)		937521			993055	993035	993215	202	24,41
48-16545A46	Laser II™ (LH)		937521			993055	993035	993215	202	24,41
48-16546A40	Laser II™	031066	933521		992005	993045	993025	993205	202	24,41
48-16546A41	Laser II™	031066	933521		992005	993045	993025	993205	202	24,41
48-16546A45	Laser II™	031066	933521		992005	993045	993025	993205	202	24,41
48-16546A46	Laser II™	031066	933521		992005	993045	993025	993205	202	24,41
48-16547A40	Laser II™ (LH)		937523			993056	993036	993216	202	24,41
48-16547A41	Laser II™ (LH)		937523			993056	993036	993216	202	24,41
48-16547A45	Laser II™ (LH)		937523			993056	993036	993216	202	24,41
48-16547A46	Laser II™ (LH)		937523			993056	993036	993216	202	24,41
48-16548A40	Laser II™		933523		992006	993046	993026	993206	202	24,41
48-16548A41	Laser II™		933523		992006	993046	993026	993206	202	24,41
48-16548A45	Laser II™		933523		992006	993046	993026	993206	202	24,41
48-16548A46	Laser II™		937523			993056	993036	993216	202	24,41
48-16550A40	Laser II™		933525						202	24,41
45-16550A41	Laser II™		933525						202	24,41
48-16550A45	Laser II™		933525						202	24,41
48-16550A46	Laser II™		933525						202	24,41
48-16986A5	QSS™	031141	933415		992213	993143			202	23
48-16986A45	Vengeance	031141	933415		992213	993143			202	23
48-16986A46	Vengeance	031141	933415		992213	993143			202	23
48-16988A5	QSS™	031142	933417		992214	993144			202	23
48-16988A45	Vengeance	031142	933417		992214	993144			202	23
48-16988A46	Vengeance	031142	933417		992214	993144			202	23
48-16990A40	Laser II™	031143	933419		992215	993145			202	23
48-16990A45	Laser II™	031143	933419		992215	993145			202	23
48-16992A40	Laser II™	031144	933421		992216	993146			202	23
48-16994A46	Laser II™		953424						202	23
48-17874A12		032050								19
48-18278A46	Mirage® Plus		933517			993043	993023		202	24,41
48-19636A10	Black Max™				992501				120	19
48-19638A40	Black Max™	031049			992503				120	19
48-19639A40	Black Max™				992504				120	19
48-19640A40	Black Max™	031048	933013		992505				120	19
48-19642A40	Black Max™		933015		992506				120	19
48-19644A5	Vengeance		933013							19
48-19841A46	Mirage® Plus (LH)					993052	993032		202	24,41
48-30388A1		031142	933417		992214	993144			202	23
48-30390A1		031141	933415		992213	993143			202	23
48-30396A1		031154								23
48-30396A3		031154								23
48-30396A4		031154								23
48-31072A4		031141	933415		992213	993143			202	23
48-31080A1		031142	933417		992214	993144			202	23
48-31082A1		031141	933415		992213	993143			202	23
48-31454A3		031143	933419		992215	993145			202	23
48-31456A3		031142	933417		992214	993144			202	23
48-31458A3		031141	933415		992213	993143			202	23
48-32264A3		031141	933415		992213	993143			202	23
48-32386A3		031143	933419		992215	993145			202	23
48-32386A4		031048								23
48-32388A3		031142	933417		992214	993144			202	23
48-32990A3		031155			992212				202	23
48-32392A3		031154								23
48-32392A4		031155			992212				202	23
48-32746A3		031144	933421		992216	993146			202	23
48-32748A3		031142	933417		992214	993144			202	23
48-32750A3		031142	933417		992214	993144			202	23
48-33480A1		032135								20
48-33482A1		032136								20
48-35936A3		031154								23
48-35936A4		031155								23
48-36008A1			933523		992006	993046	993026	993206	202	24,41

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s	
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade
MERCURY®, MARINER®, MERCURISER® (Continued)									
48-36010A1	031026	933521		992005	993045	993025	993205	202	24,41
48-36010A4		933523		992006	993046	993026	993206	202	24,41
48-36012A1	031052	933519		992004	993044	993024	993204	202	24,41
48-36012A4	031026	933521		992005	993045	993025	993205	202	24,41
48-36012A5	031051	933515		992002	993043	993023	993203	202	24,41
48-36014A1	031051	933515		992002	993043	993023	993203	202	24,41
48-36014A4	032052	933519		992004	993044	993024	993204	202	24,41
48-36016A4	031051	933515		992002	993043	993023	993203	202	24,41
48-36018A1	031022			992001				202	24,41
48-36020A1	031022			992001				202	24,41
48-36020A4	031022			992001				202	24,41
48-37902A4	031142	933417		992214	993144			202	23
48-42522A10	032052								19
48-42522A11	032052								19
48-42522A12	032052								19
48-42738A10	Black Max™	032141							22
48-42738A11	Black Max™	032141							22
48-42738A13	Black Max™	032141							22
48-42740A10	Black Max™	032142							22
48-42740A11	Black Max™	032142							22
48-43584A40	031049			992503				120	19
48-43586A40	031048	933015		992505				120	19
48-43590A40				992506				120	19
48-47670A1	032020								19
48-47670A10	032020								19
48-47670A3	032020								19
48-47922A1	032021								19
48-47922A10	032021								19
48-47926A1	032021								19
48-47926A10	032021								19
48-49632A3	031142	933417		992214	993144			202	23
48-49632A4	031143	933419		992215	993145			202	23
48-49634A1	031052			992004	993044	993024	993204	202	24,41
48-49634A4	031052			992004	993044	993024	993204	202	24,41
48-52008A3	031045*								23
48-52008A4	031045*								23
48-52012A3	031045*								23
48-53892A3	031143	933419		992215	993145			202	23
48-53896A3	031142	933417		992214	993144			202	23
48-53896A4	031143	933419		992215	993145			202	23
48-53900A3	031141	933415		992213	993143			202	23
48-58422A1	031051			992003	993043	993023	993203	202	24,41
48-58422A4	031052			992004	993044	993024	993204	202	24,41
48-58424A4	031026	933521		992005	993045	993025	993205	202	24,41
48-58426A1	031026	933521		992005	993045	993025	993205	202	24,41
48-58426A4				992006	993046	993026	993206	202	24,41
48-58826A3	031154								23
48-58826A4	031155			992212				202	23
48-61812A1	032045			992602				114	21
48-61812A4	032045			992602				114	21
48-61814A1	032044			992603				114	21
48-61814A4	032044			992603				114	21
48-61816A1	032043	993213		992604	993405			114	21
48-61816A4	032043	993213		992604	993405			114	21
48-61818A1	032042			992605	993406			114	21
48-61818A4	032042			992605	993406			114	21
48-61820A1	032041			992606	993407			114	21
48-61820A4	032041			992606	993407			114	21
48-61822A1	032040	933215		992408	993408			114	21
48-61822A4	032040	933215		992408	993408			114	21
48-61824A1				992409				114	21
48-62274A1	032045			992602				114	21
48-62274A4	032045			992602				114	21
48-63540A1	032040	933215		992408	993408			114	21
48-64724A1	031020								21
48-64724A4	031020								21
48-65022A1	031141			992213	993143			202	23
48-65024A1	031142			992214	993144			202	23
48-65480A1	031027			992006	993046	993026	993206	202	24,41
48-65588A1	031142	933417		992214	993144			202	23
48-65588A4	031142	933417		992214	993144			202	23

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade
MERCURY®, MARINER®, MERCUISER® (Continued)								
48-65736A1	031045*							23
48-65736A4	031045*							23
48-65748A1	031141	933415		992213	993143		202	23
48-65992A1	031026	933521		992005	993045	993025	993205	202 24,41
48-65992A4	031026	933521		992005	993045	993025	993205	202 24,41
48-66432A1	031051			992003	993043	993023	993203	202 24,41
48-66432A4	031052			992004	993044	993024	993204	202 24,41
48-66450A4	031051			992003	993043	993023	993203	202 24,41
48-67280A1	031143	933419		992215	993145			202 23
48-67874A4	031027			992006	993046		993206	202 24,41
48-68556A4		Cleaver™		992004	993044	993024	993204	202 24,41
48-68557A4		Cleaver™ (LH)			993055	993035	993215	202 24,41
48-68558A4		Cleaver™		992005	993045	993025	993205	202 24,41
48-72764A4		QSS™	031142	933417	992214	993144		202 23
48-72764A5		QSS™	031142	933417	992214	993144		202 23
48-73132A4		Black Max™	031015					22
48-73132A40		Black Max™	031015					22
48-73134A4		Black Max™	031016		992405	993405		114 22
48-73134A40		Black Max™	031016		992405	993405		114 22
48-73136A4		Black Max™	031017	933213	992406	993406		114 22
48-73136A40		Black Max™	031017	933213	992406	993406		114 22
48-73138A4		Black Max™	031018		992407	993407		114 22
48-73138A40		Black Max™	031018		992407	993407		114 22
48-73140A4		Black Max™	031019	933215	992408	993408		114 22
48-73140A40		Black Max™	031019	933215	992408	993408		114 22
48-73142A40		Black Max™			992409			114 22
48-73144A4		Black Max™	031020					22
48-73144A40		Black Max™	031020					22
48-73502A4			031022		992001		202	24,41
48-73504A4			031023	933515	992002	993042		202 24,41
48-73506A4			031024	933517	992003	993043	993023	993203 202 24,41
48-73508A4			031025	933519	992004	993044	993024	993204 202 24,41
48-73510A4			031026	933521	992005	993045	993025	993205 202 24,41
48-73512A4				933523	992006	993046	993026	993206 202 24,41
48-73980A4		QSS™	031025	933519	992004	993044	993024	993204 202 24,41
48-73980A5		QSS™	031025	933519	992004	993044	993024	993204 202 24,41
48-73982A4		QSS™	031026	933521	992005	993045	993025	993205 202 24,41
48-73982A5		QSS™	031026	933521	992005	993045	993025	993205 202 24,41
48-74266A4		QSS™	031025	933519	992004	993044	993024	993204 202 24,41
48-74268A4		QSS™	031026	933521	992005	993045	993025	993205 202 24,41
48-74598A4		Cleaver™	031025	933519	992004	993044	993024	993204 202 24,41
48-74599A4		Cleaver™ (LH)		937521		993055	993035	993215 202 24,41
48-74600A4		Cleaver™	031026	933521	992005	993045	993025	993205 202 24,41
48-74601A4		Cleaver™ (LH)		937523		993056	993036	993216 202 24,41
48-74872A4			031051		992003	993043	993023	993203 202 24,41
48-74874A4			031052		992004	993044	993024	993204 202 24,41
48-74876A4			031026	933521	992005	993045	993025	993205 202 24,41
48-74886A4			031052		992004	993044	993024	993204 202 24,41
48-74888A4			031026	933521	992005	993045	993025	993205 202 24,41
48-75058A4		QSS™		933523	992006	993046	993026	993206 202 24,41
48-75160A4				933523	992006	993046	993026	993206 202 24,41
48-75724A4		QSS™		933523	992006	993046	993026	993206 202 24,41
48-75724A5		QSS™		933523	992006	993046	993026	993206 202 24,41
48-75760A4			031023	933515	992002	993042		202 24,41
48-76230A4		QSS™	031058		992407	993407		114 22
48-76230A5		Vengeance	031058		992407	993407		114 22
48-76232A4		QSS™	031019	933215	992408	993408		114 22
48-76232A5		Vengeance	031019	933215	992408	993408		114 22
48-77338A4		Black Max™	031154					23
48-77338A33		Black Max™	031154					23
48-77338A40		Black Max™	031154					23
48-77338A45		Black Max™	031154					23
48-77338CP1		Black Max™ Pontoon	031200					23
48-77340A4		Black Max™	031155		992212			202 23
48-77340A33		Black Max™	031155		992212			202 23
48-77340A40		Black Max™	031155		992212			202 23
48-77340A45		Black Max™	031155		992212			202 23
48-77340CP1		Black Max™ Pontoon	031202					23
48-77342A4		Black Max™	031141	933415	992213	993143		202 23
48-77342A33		Black Max™	031141	933415	992213	993143		202 23
48-77342A40		Black Max™	031141	933415	992213	993143		202 23

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark		Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s
		Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade
MERCURY®, MARINER®, MERCURISER® (Continued)									
48-77342A45	Black Max™	031141	933415			992213	993143	202	23
48-77344A4	Black Max™	031142	933417			992214	993144	202	23
48-77344A40	Black Max™	031142	933417			992214	993144	202	23
48-77344A45	Black Max™	031142	933417			992214	993144	202	23
48-77346A4	Black Max™	031143	933419			992215	993145	202	23
48-77346A40	Black Max™	031143	933419			992215	993145	202	23
48-77346A45	Black Max™	031143	933419			992215	993145	202	23
48-77348A4	Black Max™	031144	933421	953422		992216	993146	202	23
48-77348A40	Black Max™	031144	933421	953422		992216	993146	202	23
48-77348A45	Black Max™	031144	933421	953422		992216	993146	202	23
48-77350A4	Black Max™	031045*							23
48-77350A40	Black Max™	031045*							23
48-77350A45	Black Max™	031045*							23
48-78114A4	Black Max™	031022				992001		202	24,41
48-78114A40	Black Max™	031022				992001		202	24,41
48-78114A45	Black Max™	031022				992001		202	24,41
48-78116A4	Black Max™	031023	933515			992002	993042	202	24,41
48-78116A40	Black Max™	031023	933515			992002	993042	202	24,41
48-78116A45	Black Max™	031023	933515			992002	993042	202	24,41
48-78118A4	Black Max™	031024	933517			992003	993043	993023	993203
48-78118A40	Black Max™	031024	933517			992003	993043	993023	993203
48-78118A45	Black Max™	031024	933517			992003	993043	993023	993203
48-78120A4	Black Max™	031025	933519			992004	993044	993024	993204
48-78120A40	Black Max™	031025	933519			992004	993044	993024	993204
48-78120A45	Black Max™	031025	933519			992004	993044	993024	993204
48-78122A4	Black Max™	031026	933521	953522		992005	993045	993025	993205
48-78122A40	Black Max™	031026	933521	953522		992005	993045	993025	993205
48-78122A45	Black Max™	031026	933521	953522		992005	993045	993025	993205
48-78124A4	Black Max™		933523	953524		992006	993046	993026	993206
48-78124A40	Black Max™		933523	953524		992006	993046	993026	993206
48-78124A45	Black Max™		933523	953524		992006	993046	993026	993206
48-78126A4	Black Max™		933525	953526					202
48-78126A40	Black Max™		933525	953526					202
48-78126A45	Black Max™		933525	953526					202
48-79572A4	Black Max™	031051	933517			992003	993043	993023	993203
48-79574A4	Black Max™	031025	933519			992004	993044	993024	993204
48-79576A4	Black Max™	031026	933521			992005	993045	993025	993205
48-79578A4	Black Max™		933523			992006	993046	993026	993206
48-79792A4	QSS™	031016				992405	993405		114
48-79792A5	Vengeance	031016				992405	993405		114
48-79794A4	QSS™	031024				992003	993043	993023	993203
48-79794A5	QSS™	031024				992003	993043	993023	993203
48-71645M		022002							20
48-81647M		022001							20
48-81649M		022002							20
48-816702A40	Black Max™	031056				992405	993405		114
48-816704A40	Black Max™	031057	933213			992406	993406		114
48-816706A40	Black Max™	031058				992407	993407		114
48-825860A47		031025	933519			992004	993044	993024	993204
48-825861A47	Tempest Plus (LH)		937519				993054	993034	993214
48-825862A47	Tempest Plus	031026	933521			992005	993045	993025	993205
48-825863A47	Tempest Plus (LH)		937521				993055	993035	993215
48-825864A47	Tempest Plus		933523			992006	993046	993026	993206
48-825865A47	Tempest Plus (LH)		937523				993056	993036	993216
48-825866A47	Tempest Plus		933525						202
48-825872A47	Tempest Plus			953524					202
48-825874A47	Tempest Plus			953526					202
48-825898A48	VenSura® 4					992202		993203	202
48-825899A48	VenSura® 4 (LH)							993213	202
48-825900A48	VenSura® 4					992203		993204	202
48-825901A48	VenSura® 4 (LH)							993214	202
48-825902A48	VenSura® 4					992204		993205	202
48-825903A48	VenSura® 4 (LH)							993215	202
48-825906A48	VenSura® 4							993206	202
48-825907A48	VenSura® 4 (LH)							993216	202
48-825938A47	Trophy Plus 4			963523					202
48-825942A47	Trophy Plus 4			963525					202
48-825946A47	Trophy Plus 4			963527					202
48-827312A11	Black Max™	032142							22
48-82767		012102							20
48-82768		012011							20

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark		Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s	
		Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade
MERCURY®, MARINER®, MERCUISER® (Continued)										
48-828152A12	Black Max™	032056							19	
48-828156A12	Black Max™	032052							19	
48-828158A12	Black Max™	032050							19	
48-82826		022003							20	
48-832828A45	Black Max™	031064	933517		992003	993043	993023	993203	202	24,41
48-832830A45	Black Max™	031065	933519		992004	993044	993024	993204	202	24,41
48-832832A45	Black Max™	031066	933521		992005	993045	993025	993205	202	24,41
48-832834A45	Black Max™		933523		992006	993046	993026	993206	202	24,41
48-834850A45	Alpha 4®				992202			993203	202	24,41
48-834851A45	Alpha 4® (LH)							993213	202	24,41
48-834852A45	Alpha 4®				992203			993204	202	24,41
48-834853A45	Alpha 4® (LH)							993214	202	24,41
48-834854A45	Alpha 4®				992204			993205	202	24,41
48-834855A45	Alpha 4® (LH)							993215	202	24,41
48-854342A45		031061			992209				202	23
48-854354A46	Vengeance	031141	933415		992213	993143			202	23
48-855856A5	Vengeance				992405	993405			114	22
48-855858A5	Vengeance		933213		992406	993406			114	22
48-855860A5	Vengeance					993407			114	22
48-855862A5	Vengeance		933215			993408			114	22
48-85632A4	Black Max™	031053			992404				114	22
48-85632A40	Black Max™	031053			992404				114	22
48-86848A4		031048								19
48-86962A4		032136								20
48-88438A4	QSS™					993043		993203	202	24,41
48-88440A4	QSS™					993044		993204	202	24,41
48-88442A4	QSS™					993045		993205	202	24,41
48-88444A4	QSS™					993046		993206	202	24,41
48-896890A10	Black Max™	141304								21
48-896892A40	Black Max™				992501			122		21
48-896896A40	Black Max™				992503			122		21
48-897618A10	Black Max™	142203								20
48-897748A11		142203								20
48-897750A11		142204								20
48-897752A11		142205								20
48-897754A11		142206								20
48-89852A4		031049			992503			120		19
48-89854A4					992506			120		19
48-898990A46	Energia®	031023	933515		992002	993042		202		24,41
48-898991A46	Energia® (LH)					993052		202		24,41
48-898994A46	Energia®	031024	933517		992003	993043	993023	993203	202	24,41
48-898995A46	Energia® (LH)		937517			993053	993033	993213	202	24,41
48-898998A46	Energia®	031025	933519		992004	993044	993024	993204	202	24,41
48-898999A46	Energia® (LH)		937519			993054	993034	993214	202	24,41
48-899002A46	Energia®	031026	933521		992005	993045	993025	993205	202	24,41
48-899003A46	Energia® (LH)		937521			993055	993035	993215	202	24,41
48-899004A46	Laser II™	031143	933419		992215	993145		202		23
48-899006A46	Laser II™	031144	933421		992216	993146		202		23
48-90159A46			937517			993053	993033	993213	202	24,41
48-93272A4	QSS™	031023	933515		992002	993042		202		24,41
48-93272A5	QSS™	031023	933515		992002	993042		202		24,41
48-96623M		012013								20
48-96625M		012011								20
48-96628M		012102								20
8M8026560	SpitFire®				941411			202		23
8M8026570	SpitFire®				941413			202		23
8M8026580	SpitFire®				941415			202		23
8M8026590	SpitFire®				941417			202		23
8M8026600	SpitFire®				941419			202		23
QA1912X	Black Diamond®	031064	933517		992003	993043	993023	993203	202	24,41
QA1916X	Black Diamond®	031065	933519		992004	993044	993024	993204	202	24,41
QA1918X	Black Diamond®	031066	933521		992005	993045	993025	993205	202	24,41
QA1920X	Black Diamond®		933523		992006	993046	993026	993206	202	24,41
QA2004X	Black Diamond®	031022								24,41
QA2006X	Black Diamond®	031050	933515		992002	993042		202		24,41
QA2008X	Black Diamond®	031023	933515		992002	993042		202		24,41
QA2010X	Black Diamond®	031051	933517		992003	993043	993023	993203	202	24,41
QA2012X	Black Diamond®	031024	933517		992003	993043	993023	993203	202	24,41
QA2014X	Black Diamond®	031052	933519		992004	993044	993024	993204	202	24,41
QA2016X	Black Diamond®	031025	933519		992004	993044	993024	993204	202	24,41
QA2018X	Black Diamond®	031026	933521		992005	993045	993025	993205	202	24,41

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark		Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s	
		Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade
MERCURY®, MARINER®, MERCUISER® (Continued)										
QA2022X	Black Diamond®		933525						24,41	
QA2028X	Black Diamond®	031143	933419		992215	993145	202		23	
QA2030X	Black Diamond®	031154							23	
QA2032X	Black Diamond®	031155			992212		202		23	
QA2034X	Black Diamond®	031141	933415		992213	993143	202		23	
QA2036X	Black Diamond®	031142	933417		992214	993144	202		23	
QA2038X	Black Diamond®	031143	933419		992215	993145	202		23	
QA2040X	Black Diamond®	031144	933421		992216	993146	202		23	
QA2042X	Black Diamond®	031045*							23	
QA2060R	Black Diamond®	032141							22	
QA2064R	Black Diamond®	032044			992404		114		21	
QA2064R	Black Diamond®	031015			992404		114		21	
QA2066R	Black Diamond®	032142							22	
QA2070R	Black Diamond®	031053			992404		114		22	
QA2072R	Black Diamond®	031056			992405	993405	114		22	
QA2074R	Black Diamond®	031016			992405	993405	114		22	
QA2078R	Black Diamond®	032043			992405	993405	114		21	
QA2078R	Black Diamond®	031017	933213		992406	993406	114		22	
QA2078R	Black Diamond®	032042	993213		992406	993406	114		21	
QA2080R	Black Diamond®	031058			992407	993407	114		22	
QA2082R	Black Diamond®	031018	933215		992407	993407	114		22	
QA2082R	Black Diamond®	032041			992407	993407	114		21	
QA2084R	Black Diamond®	031019	933215		992408	993408	114		22	
QA2084R	Black Diamond®	032040	933215		992408	993408	114		21	
QA2088R	Black Diamond®	031020							22	
QA2102R	Black Diamond®	031049			992503		120		19	
QA2106R	Black Diamond®	031048	933013		992505		120		19	
QA2108R	Black Diamond®		933015		992506		120		19	
QA2124R	Black Diamond®	032056							19	
QA2128R	Black Diamond®	032052							19	
QA2130R	Black Diamond®	032050							19	
QA2158R	Black Diamond®	142203							20	
QA2182X	Diamond 4				992202		993203	202	24,41	
QA2183X	Diamond 4 (LH)						993213	202	24,41	
QA2184X	Diamond 4				992203		993204	202	24,41	
QA2185X	Diamond 4 (LH)						993214	202	24,41	
QA2186X	Diamond 4				992204		993205	202	24,41	
QA2187X	Diamond 4 (LH)						993215	202	24,41	
QA2190R	Black Diamond®	141304							21	
QA2226R	Black Diamond®	032044			992603	993405	114		21	
QA2230R	Black Diamond®	032042	993213		992605	993406	114		21	
QA2232R	Black Diamond®	032041			992606	993407	114		21	
QA2234R	Black Diamond®	032040	933215		992408	993408	114		21	
QA2830X	Black Diamond®	031200							23	
QA2832X	Black Diamond®	031202							23	
QA3150R	Black Diamond®	012011							20	
QA3808R	Black Diamond®	022002							20	
QA3812R	Black Diamond®	022003							20	
QA6004	QA3	031022			992001		202		24,41	
QA6010	QA3	031051							24,41	
QA6012	QA3	031024	933517		992003	993043	993023	993203	202	24,41
QA6016	QA3	031025	933519		992004	993044	993024	993204	202	24,41
QA6018	QA3	031026	933521		992005	993045	993025	993205	202	24,41
QA6020	QA3		933523		992006	993046	993026	993206	202	24,41
QA6030	QA3	031154							23	
QA6032	QA3	031155			992212		202		23	
QA6034	QA3	031141			992213	993143	202		23	
QA6036	QA3	031142			992214	993144	202		23	
QA6038	QA3	031143			992215	993145	202		23	
QA6040	QA3	031144			992216	993146	202		23	
QA6042	QA3	031045*							23	
QA6060T	QA3	032141							22	
QA6064T	QA3	031015							22	
QA6070T	QA3	031053			992404		114		22	
QA6074T	QA3	031016			992405	993405	114		22	
QA6078T	QA3	031017			992406	993406	114		22	
QA6082T	QA3	031018			992407	993407	114		22	
QA6084T	QA3	031019			992408	993408	114		22	
QA6102T	QA3	031049			992503		120		19	
QA6106T	QA3	031048	933013		992505		120		19	
QA6128T	QA3	032021							19	

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark		Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s	
		Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade
MERCURY®, MARINER®, MERCURISER® (Continued)										
QS5004X	Thunderbolt	031064	933517		992003	993043	993023	993203	202	24,41
QS5005X	Thunderbolt (LH)		937517			993053	993033	993213	202	24,41
QS5006X	Thunderbolt	031065	933519		992004	993044	993024	993204	202	24,41
QS5007X	Thunderbolt (LH)		937519			993054	993034	993214	202	24,41
QS5008X	Thunderbolt	031066	933521		992005	993045	993025	993205	202	24,41
QS5009X	Thunderbolt (LH)		937521			993055	993035	993215	202	24,41
QS5010X	Thunderbolt		933523		992006	993046	993026	993206	202	24,41
QS5011X	Thunderbolt (LH)		937523			993056	993036	993216	202	24,41
QS5050X	Silverado	031023	933515		992002	993042			202	24,41
QS5052X	Silverado	031024	933517		992003	993043	993023	993203	202	24,41
QS5053X	Silverado (LH)		937517			993053	993033	993213	202	24,41
QS5054X	Silverado	031025	933519		992004	993044	993024	993204	202	24,41
QS5055X	Silverado (LH)		937519			993054	993034	993214	202	24,41
QS5056X	Silverado	031026	933521		992005	993045	993025	993205	202	24,41
QS5057X	Silverado (LH)		937521			993055	993035	993215	202	24,41
QS5058X	Silverado		933523		992006	993046	993026	993206	202	24,41
QS5059X	Silverado (LH)		937523			993056	993036	993216	202	24,41
QS5070X	Lightspeed	031025	933519		992004	993044	993024	993204	202	24,41
QS5071X	Lightspeed (LH)		937519			993054	993034	993214	202	24,41
QS5072X	Lightspeed	031016	933521		992005	993045	993025	993205	202	24,41
QS5073X	Lightspeed (LH)		937521			993055	993035	993215	202	24,41
QS5074X	Lightspeed		933523	953522	992006	993046	993026	993206	202	24,41
QS5075X	Lightspeed (LH)		937523			993056	993036	993216	202	24,41
QS5116X	Silverado	031141	933415		992213	993143			202	23
QS6004X	Typhoon® 4						993204		202	24,41
QS5118X	Silverado	031142	933417		992214	993144			202	23
QS5120X	Silverado	031143	933419		992215	993145			202	23
QS5122X	Silverado	031144	933421	953422	992216	993146			202	23
QS5124X	Silverado			953424						23
QS5164R	Silverado	031056			992405	993405		114		22
QS5166R	Silverado	031057	933213		992406	993406		114		22
QS5168R	Silverado	031058	933215		992407	993407		114		22
QS5170R	Silverado	031058	933215		992408	993407		114		22
QS5180R	Silverado	031048	933013		992505			120		19
QS5862X	Torrent	031066	345143		992005	993045	993025	993205	202	24,41
QS5864X	Torrent		933523		992006	993046	993026	993206	202	24,41
QS6003X	Typhoon® 4 (LH)						993214		202	24,41
QS6005X	Typhoon® 4 (LH)						993215		202	24,41
QS6006X	Typhoon® 4						993205		202	24,41
TA1916X	Black Diamond® XT	031065	933519		992004	993044	993024	993204	202	24,41
TA1918X	Black Diamond® XT	031066	933521		992005	993045	993025	993205	202	24,41
TA1920X	Black Diamond® XT		933523		992006	993046	993026	993206	202	24,41
TA2004X	Black Diamond®	031022			992001				202	24,41
TA2008	Black Diamond®	031023			992002	993042			202	24,41
TA2010	Black Diamond®	031051			992003	993043	993023	993203	202	24,41
TA2012	Black Diamond®	031024			992003	993043	993023	993203	202	24,41
TA2014	Black Diamond®	031052			992004	993044	993024	993204	202	24,41
TA2016	Black Diamond®	031025			992004	993044	993024	993204	202	24,41
TA2018	Black Diamond®	031026			992005	993045	993025	993205	202	24,41
TA2020	Black Diamond®				992006	993046	993026	993206	202	24,41
TA2030X	Black Diamond®	031154								23
TA2032X	Black Diamond®	031155								23
TA2034	Black Diamond®	031141	933415		992213	993143		202		23
TA2036	Black Diamond®	031142	933417		992215	993144		202		23
TA2038	Black Diamond®	031143	933419		992215	993145		202		23
TA2040	Black Diamond®	031144	933421		992216	993146		202		23
TA2048	Black Diamond®	031141	933415		992213	993143		202		23
TA2050	Black Diamond®	031142	933417		992214	993144		202		23
TA2052	Black Diamond®	031143	933419		992215	993145		202		23
TA2054	Black Diamond®	031144	933421		992216	993146		202		23
TA2060T	Black Diamond®	032141						114		22
TA2064T	Black Diamond®	031015						114		22
TA2066T	Black Diamond®	032142						114		22
TA2070T	Black Diamond®	031053			992404			114		22
TA2072T	Black Diamond®	031056			992405	993405		114		22
TA2074T	Black Diamond®	031016			992405	993405		114		22
TA2076T	Black Diamond®	031057	933213		992406	993406		114		22
TA2078T	Black Diamond®	031017	933213		992406	993406		114		22
TA2080T	Black Diamond®	031058			992407	993407		114		22
TA2082T	Black Diamond®	031018			992407	993407		114		22
TA2084T	Black Diamond®	031019	933215		992408	993408		114		22

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade

MERCURY®, MARINER®, MERCURISER® (Continued)

TA2088T	Black Diamond®	031022			992001			202	24,41	
TA2106T	Black Diamond®	031048			992505			120	19	
TA2128T	Black Diamond®	032052							19	
TA2202	Black Diamond®	031144	933421		992216	993146		202	23	
TA2204	Black Diamond®	031143	933419		992215	993145		202	23	
TA2206	Black Diamond®	031142	933417		992214	993144		202	23	
TA2208	Black Diamond®	031141	933415		992213	993143		202	23	
TA3150T	Black Diamond®	012011							20	
TA3152T	Black Diamond®	012013							20	
TA3808T	Black Diamond®	022002							20	
TS1006	Thunderbolt				992004	993044	993024	993204	202	24,41
TS1007	Thunderbolt (LH)					993054	993034	993214	202	24,41
TS1008	Thunderbolt				992005	993045	993025	993205	202	24,41
TS1009	Thunderbolt (LH)					993055	993035	993215	202	24,41
TS1010	Thunderbolt				992006	993046	993026	993206	202	24,41
TS1011	Thunderbolt (LH)					993056	993036	993216	202	24,41
TS1052	Silverado	031064	933517		992003	993043	993023	993203	202	24,41
TS1053	Silverado (LH)		937517			993053	993033	993213	202	24,41
TS1054	Silverado	031065	933519		992004	993044	993024	993204	202	24,41
TS1055	Silverado (LH)		937519			993054	993034	993214	202	24,41
TS1056	Silverado	031066	933521		992005	993045	993025	993205	202	24,41
TS1057	Silverado (LH)		937521			993055	993035	993215	202	24,41
TS1070	Lightspeed	031065	933519		992004	993044	993024	993204	202	24,41
TS1071	Lightspeed (LH)		937519			993054	993034	993214	202	24,41
TS1072	Lightspeed	031066	933521		992005	993045	993025	993205	202	24,41
TS1073	Lightspeed (LH)		937521			993055	993035	993215	202	24,41
TS1074	Lightspeed		933523		992006	993046	993026	993206	202	24,41
TS1075	Lightspeed (LH)		937523			993056	993036	993216	202	24,41
TS1116	Silverado	031141	933415		992213	993143		202	23	
TS1118	Silverado	031142	933417		992214	993144		202	23	
TS1120	Lightspeed	031143	933419		992215	993145		202	23	
TS1122	Lightspeed	031144	933421		992216	993146		202	23	
TS1164T	Silverado	031016			992305	993405		114	22	
TS1166T	Silverado	031017	933213		992406	993406		114	22	
TS1168T	Silverado	031058			992407	993407		114	22	

NISSAN®, TOHATSU®

345-64-1015					992501			122	26
346-64-1015M	141304				992501			122	26
346-64-1025M					992502			122	26
346-64-1035					992503			122	26
346-64-1035M	141305				992503			122	26
346-64-1045M	141306				992505			122	26
346-64-1055					992506			122	26
346-64-1055M					992506			122	26
346-64-1065	141304								26
346-B64-1065	141304								26
346-W64-1055					992506			122	26
346-W64-1065	141304								26
348-64-1020					992605	993406		116	27
348-64-1030					992606	993407		116	27
348-64-1040					992604	993405		116	27
348-64-1080					992401			112	27
348-W64-1080					992401			116	27
353-64-1010					992401			112	27
353-64-1020					992402			112	27
353-64-1030					992403			112	27
353-64-1050					992301			112	27
353-64-1050M					992301			112	27
353-64-1070					992302			112	27
353-64-1070M					992302			112	27
353-64-1080	142008*								27
353-64-1090					992303			112	27
353-64-1090M	142009*				992303			112	27
361-64-1020					992605	993406		116	27
361-64-1030					992606	993407		116	27
361-64-1130	142405				992603			116	27
361-64-1140	142002				992604	993405		116	27
362-64-1010M	142204								26
362-64-1020	142203								26
362-64-1020M	142203								26

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade

NISSAN®, TOHATSU® (Continued)

362-64-1080M	142205							26
362-W64-1020	142203							26
3B7-64-5270				992212			209	28
3B7-64-5320		933415		992213	993143		209	28
3B7-64-5360		933415		992213	993143		209	28
3B7-64-5410		933417		992214	993144		209	28
3B7-64-5450		933419		992215	993145		209	28
3B7-64-5490		933421					209	28
3C7-64-5140		933417		992214	993144		209	28
3C7-64-5360		933417		992214	993144		209	28
3C7-64-5360M		933415		992213	993143		209	28
3C7-64-5490M		933419		992215	993145		209	28
3C7-64-5540M		933421		992216	993146		209	28
3C7-76-4510M		933417		992214	993144		209	28
3E0-64-1810M				992212			209	28
3E0-64-1850M		933415		992213	993143		209	28
3E0-64-1890M		933417		992214	993144		209	28
3E0-64-1940M		933419		992215	993145		209	28
3E0-64-1960M		933421		992216	993146		209	28
3E3-64-5260M				992604	993405		116	27
3E3-64-5280M				992605	993406		116	27
3E3-64-5310M				992606	993407		116	27
3E3-64-5360M				992408	993408		116	27
3N4-W64-5271				992212			209	28
3N4-W64-5321		933415		992213	993143		209	28
3N4-W64-5361		933417		992214	993144		209	28
3N4-W64-5411		933419		992215	993145		209	28
3N4-W64-5451		933421		992216	993146		209	28
3R0-64-5250M				992504			122	26
3R0-B64-5180	141304			992501			122	26
3R0-B64-5230	141305			992503			122	26
3R0-B64-5270	141306			992505			122	26
3R0-W64-5210				992502			122	26
3R0-W64-5230				992503			122	26
3R0-W64-5250				992504			122	26
3R0-W64-5270		933013		992505			122	26
3R0-W64-5480				992501			122	26
3T5-B64-5320				992603			116	27
3T5-64-5230	142405			992603			116	27
3T5-64-5250				992604	993405		116	27
3T5-64-5270	142406			992605	993406		116	27
3T5-64-5290				992606	993407		116	27
3T5-64-5320				992408	993408		116	27
9999RUBA313M		Solas® Rubex®		992212			209	28
9999RUBA315M		Solas® Rubex®		992213	993143		209	28
9999RUBA317M		Solas® Rubex®		992214	993144		209	28
9999RUBA319M		Solas® Rubex®		992215	993145		209	28
9999RUBA321M		Solas® Rubex®		992216	993146		209	28
NM889210130		933013					122	26
NM889410120				992604	993405		116	27
NM889410130				992605	993406		116	27
NM889410140				992606	993407		116	27
NM889410150				992408	993408		116	27
NM889510150		933315					112	27
NM889510170		933317					112	27
NM889610150		933415		992213	993143		209	28
NM889610170		933417		992214	993144		209	28
NM889610180		933419		992215	993145		209	28
NM889610200		933421		992216	993146		209	28

SUZUKI®

58100-87L00-019				992212			See Note 4	34
58100-87L10-019	061020			992213	993143		See Note 4	34
58100-87L20-019	061024			992214	993144		See Note 4	34
58100-85L30-019	061028			992215	993145		See Note 4	34
58100-87L40-019	061032			992216	993146		See Note 4	34
58100-88L01-019	DF40A/50A/60A/40/50	032046		992601			115	32
58100-88L10-019	DF40A/50A/60A/40/50	032045		992602			115	32
58100-88L21-019	DF40A/50A/60A/40/50	032044		992603			115	32
58100-88L31-019	DF40A/50A/60A/40/50	032043		992604			115	32
58100-88L41-019	DF40A/50A/60A/40/50	032042		992605			115	32

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s			
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade		
SUZUKI® (Continued)											
58100-88L51-019	DF40A/50A/60A/40/50	032041						115	32		
58100-88L61-019	DF40A/50A/60A/40/50	032040							32		
58100-90420-019		061032			992216	993146		See Note 4	34		
58100-90J00-019		061024			992214	993144		See Note 4	34		
58100-90J01-019		061024			992214	993144		See Note 4	34		
58100-90J10-019		061028			992215	993145		See Note 4	34		
58100-90J11-019		061028			992215	993145		See Note 4	34		
58100-90J20-019		061032			992216	993146		See Note 4	34		
58100-90J21-019		061032			992216	993146		See Note 4	34		
58100-90J41-019		061020			992213	993143		See Note 4	34		
58100-93723-019		062103							31		
58100-93733-019		062104							31		
58100-93743-019		062105							31		
58100-93763-019		062103							31		
58100-93773-019		062104							31		
58100-94J00-019		062103							31		
58100-94313-019		032042	993213		992605	993406		115	32		
58100-94410					992606	993407		115	32		
58100-94411					992606	993407		115	32		
58100-94412					992606	993407		115	32		
58100-94500-019		061101			992213	993143		210	33		
58100-94512-019		061102			992214	993144		210	33		
58100-94522-019		061103			992215	993145		210	33		
58100-94532-019		061104			992216	993146		210	33		
58100-94554		061101			992213	993143		210	33		
58100-94561		061103			992215	993145		210	33		
58100-94571		061104			992216	993146		210	33		
58100-94581		061102			992214	993144		210	33		
58100-95212-019		032045			992602			115	32		
58100-95222-019		032044			992603			115	32		
58100-95353-019		032041			992606	993406		115	32		
58100-95363-019		032040	993213		992408	993407		115	32		
58100-95373-019					992409	993408		115	32		
58100-95382-019			933215					115	32		
58100-95393-019		032043			992604	993405		115	32		
58100-95500-019		061101			992213	993143		210	33		
58100-95511-019		061102			992214	993144		210	33		
58100-95521-019		061103			992215	993145		210	33		
58100-95530-019		061104			992216	993146		210	33		
58100-95D00-019					992506			121	31		
58100-96370-019					992501			121	31		
58100-96410-019		062204			992502			121	31		
58100-96420-019		062205			992503			121	31		
58100-96430-019		062206			992504			121	31		
58100-96440-019		062207	933013		992505			121	31		
58100-96460-019			933015					121	31		
58100-96470-019		062204			992502			121	31		
58100-96480-019		062206			992504			121	31		
58100-96490-019		062207	933013		992505			121	31		
58100-99E00-019		061105			992212			210	33		
58100-99E10-019		061107			992209			210	33		
58200-96400		062207	933013		992505			121	31		
990C0-00830-17P			933517		992003	993043	993023	993203	204	35	
990C0-00830-19P			933519		992004	993044	993024	993204	204	35	
990C0-00830-21P			933521		992005	993045	993025	993205	204	35	
990C0-00830-23P			933523		992006	993046	993026	993206	204	35	
990C0-0083L-17P								993033	993213	204	35
990C0-0083L-19P								993034	993214	204	35
990C0-0083L-21P								993035	993215	204	35
990C0-0083L-23P								993036	993216	204	35
99105-00100-16P		061101			992213	993143			210	33	
99105-00100-18P		061102			992214	993144			210	33	
99105-00100-20P		061103			992215	993145			210	33	
99105-00100-22P		061104			992216	993146			210	33	
99105-00101-20P		061103			992215	993145			210	33	
99105-00101-22P		061104			992216	993146			210	33	
99105-00103-18P		061102			992214	993144			210	33	
99105-00103-20P		061103			992215	993145			210	33	
99105-00103-22P		061104			992216	993146			210	33	
99105-00200-16P					992002	993042	993022		204	34	
99105-00200-18P					992003	993043	993023	993203	204	34	

* Indicates limited quantities.

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s		
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade	
SUZUKI® (Continued)										
99105-00200-20P		933519			992004	993044	993024	993204	204	35
99105-00200-22P		933521			992005	993045	993025	993205	204	35
99105-00200-24P		933523			992006	993046	993026	993206	204	35
99105-00203-23P		933523			992006	993046	993026	993206	204	35
99105-0020L-16P						993052	993032		204	35
99105-0020L-18P		937517				993053	993033	993213	204	35
99105-0020L-20P		937519				993054	993034	993214	204	35
99105-0020L-22P		937521				993055	993035	993215	204	35
99105-0020L-24P		937523				993056	993036	993216	204	35
99105-00300-24P		933523			992006	993046	993026	993206	204	35
99105-00400-23P		933523			992006	993046	993026	993206	204	35
99105-00500-12P					992604	993405			115	32
99105-00500-13P		993213			992605	993406			115	32
99105-00500-14P					992606	993407			115	32
99105-00500-15P		933215			992408	993408			115	32
99105-00600-13P		933013							121	31
99105-00600-15P		933015							121	31
99105-00700-16P					992214	993144			See Note 4	34
99105-00700-18P					992215	993145			See Note 4	34
99105-00700-20P					992216	993146			See Note 4	34
99105-0070L-18P						993155			See Note 4	34
99105-0070L-20P						993156			See Note 4	34
VOLVO®										
3587517	SS 4-Blade Polished				992002				205	45
3587520	SS 4-Blade Polished				992003			993203	205	45
3587521	SS 4-Blade Polished (LH)							993213	205	45
3587522	SS 4-Blade Polished				992004			993204	205	45
3587523	SS 4-Blade Polished (LH)							993214	205	45
3587524	SS 4-Blade Polished				992005			993205	205	45
3587525	SS 4-Blade Polished (LH)							993215	205	45
3587526	SS 4-Blade Polished				992006			993206	205	45
3817466	Aluminum 3-Blade	161001			992002				205	45
3817467	Aluminum 3-Blade	161002			992003				205	45
3817468	Aluminum 3-Blade	161003			992004				205	45
3817469	Aluminum 3-Blade	161004			992005				205	45
3817470	Aluminum 3-Blade	191005			992006				205	45
3840720					992001				205	45
3850299		161001			992002	993042			205	45
3850300		161002	933517		992003	993043	993023	993203	205	45
3850301		161003	933519		992004	993044	993024	993204	205	45
3850302		161004	933521		992005	993045	993025	993205	205	45
3850303		161005	933523		992006	993046	993026	993206	205	45
3850305	SST®	161001	933515		992002	993042			205	45
3850306	SST®	161002	933517		992003	993043	993023	993203	205	45
3850307	SST®	161002	933517		992003	993043	993023	993203	205	45
3850308	SST®	161003	933519		992004	993044	993024	993204	205	45
3850309	SST®	161004	933521		992005	993045	993025	993205	205	45
3850310	SST®	161005	933523		992006	993046	993026	993206	205	45
3850311	VIPER™	161002	933517		992003	993043	993023	993203	205	45
3850312	VIPER™	161003	933519		992004	993044	993024	993204	205	45
3850313	VIPER™	161004	933521		992005	993045	993025	993205	205	45
3850314	VIPER™	161005	933523		992006	993046	993026	993206	205	45
3850315	SST® (LH)					993052	993032		205	45
3850316	SST® (LH)		937517			993053	993033	993213	205	45
3850317	SST® (LH)		937519			993054	993034	993214	205	45
3850318	SST® (LH)		937521			993055	993035	993215	205	45
3850319	SST® (LH)		937523			993056	993036	993216	205	45
3850320	VIPER™ (LH)		937517			993053	993033	993213	205	45
3850321	VIPER™ (LH)		937519			993054	993034	993214	205	45
3850322	VIPER™ (LH)		937521			993055	993035	993215	205	45
3850323	VIPER™ (LH)		937523			993056	993036	993216	205	45
3855142	Raker®	161003	933521		992004	993044	993024	993204	205	45
3855144	Raker®	161004	933523		992005	993045	993025	993205	205	45
3855146	Raker®	161005	346036		992006	993046	993026	993206	205	45
3855152	Raker® (LH)		937521			993054	993034	993214	205	45
3855154	Raker® (LH)		937523			993055	993035	993215	205	45
3855156	Raker® (LH)					993056	993036	993216	205	45
3855481			937519			993054			205	45
3860708	SS 3-Blade Polished	161003	933519		992004	993044	993024	993204	205	45
3860709	SS 3-Blade Polished	161004	933521		992005	993045	993025	993205	205	45
3860714	SS 3-Blade Polished (LH)		937517			993053	993033	993213	205	45

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Original Equipment Manufacturer Part & Trade Mark		Standard Hub Propeller	XHS® / XHS II® Hub Propeller					XHS® / XHS II® Hub Kit(s)	Catalog Page #s	
		Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia			Apollo® 4-Blade
VOLVO® (Continued)										
3860715	SS 3-Blade Polished (LH)		937519			993054	993034	993214	205	45
3860716	SS 3-Blade Polished (LH)		937521			993055	993035	993215	205	45
3860717	SS 3-Blade Polished (LH)		937523			993056	993036	993216	205	45
3862462	SS 3-Blade Polished	161002	933517		992003	993043	993023	993203	205	45
3870710	SS 3-Blade Polished	161005	933523		992006	993046	993026	993206	205	45
3850298-5		161002	933517		992003	993043	993023	993203	205	45
3850299-3		161001	933515		992002	993042			205	45
3850300-9		161002	933517		992003	993043	993023	993203	205	45
3850301-7		161003	933519		992004	993044	993024	993204	205	45
3850302-5		161004	933521		992005	993045	993025	993205	205	45
3850303-3		161005	933523		992006	993046	993026	993206	205	45
3850305-8	SS Black	161001	933515			993042			205	45
3850307-4	SS Black	161002	933517			993043	993023	993203	205	45
3850308-2	SS Black	161003	933519			993044	993024	993204	205	45
3850309-0	SS Black	161004	933521			993045	993025	993205	205	45
3850310-8	SS Black	161005	933523			993046	993026	993206	205	45
3850311-6	SS 3-Blade Polished	161002	933517			993043	993023	993203	205	45
3850312-4	SS 3-Blade Polished	161003	933519			993044	993024	993204	205	45
3850313-2	SS 3-Blade Polished	161005	933523			993046	993026	993206	205	45
3850314-0	SS 3-Blade Polished	161004	933521			993045	993025	993205	205	45
3850315-7	SS Black (LH)					993052	993032		205	45
3850316-5	SS Black (LH)		937517			993053	993033	993213	205	45
3850317-3	SS Black (LH)		937519			993054	993034	993214	205	45
3850318-1	SS Black (LH)		937521			993055	993035	993215	205	45
3850319-9	SS Black (LH)		937523			993056	993036	993216	205	45
3850320-7	SS 3-Blade Polished (LH)		937517			993053			205	45
3850321-5	SS 3-Blade Polished (LH)		937519			993054	993034	993214	205	45
3850322-3	SS 3-Blade Polished (LH)		937523			993056	993036	993216	205	45
3850323-1	SS 3-Blade Polished (LH)		937521			993055	993035	993215	205	45
3855480-4							993033		205	45
3855481-2							993034		205	45
3858026-2	SS 3-Blade Polished	161002	933517		992003	993043	993023	993203	205	45
3858027-0	SS 3-Blade Polished	161003	933519		992004	993044	993024	993204	205	45
3858028-8	SS 3-Blade Polished	161004	933521		992005	993045	993025	993205	205	45
3858029-6	SS 3-Blade Polished (LH)		937517			993053	993033	993213	205	45
3858030-4	SS 3-Blade Polished (LH)		937519			993054	993034	993214	205	45
3858031-2	SS 3-Blade Polished (LH)		937521			993055	993035	993215	205	45
YAMAHA®										
61A-45972-00-98	Black Steel		933521			993045	993025	993205	203	39,40
61A-45974-00-98	Black Steel		933519			993044	993024	993204	203	39,40
61A-45978-00-98	Black Steel		933517			993043	993023	993203	203	39,40
61B-45972-00-98	Black Steel (LH)		937521			993055	993035	993215	203	39,40
61B-45974-00-98	Black Steel (LH)		937519			993054	993034	993214	203	39,40
61B-45978-00-98	Black Steel (LH)		937517			993053	993033	993213	203	39,40
62A-45970-10-00	Pro Series™			335934		993145			See Note 1	38
62A-45970-10-00 PRO	Pro Series™ HP					993146			See Note 1	38
62A-45972-10-00	Pro Series™			335935		993146			See Note 1	38
62A-45974-10-00 PRO	Pro Series™ HP		933419			993145			See Note 1	38
63V-45947-00-EL		102003								36
63V-45945-10-EL		102004								36
650-45943-01-36		012102								36
651-45947-00-36		012011								36
653-45941-01-36		012013								36
663-45930-00-00	Painted Stainless Steel					993407			117	37
663-45943-01-36		032040			992408	993408			117	37
663-45943-02-36		032040			992408	993408			117	37
663-45943-02-EL		032040			992408	993408			117	37
663-45945-00-EL		032042			992605	993406			117	37
663-45945-01-36		032042			992605	992406			117	37
663-45945-02-36		032042			992605	993406			117	37
663-45945-02-EL		032042			992605	993406			117	37
663-45947-01-36		032044			992603				117	37
63-45947-02-36		032044			992603				117	37
663-45947-02-EL		032044			992603				117	37
663-45949-01-36					992409				117	37
663-45952-01-EL					992409				117	37
663-45952-02-EL		032043			992604	993405			117	37
663-45956-01-00		032046			992601				117	37
6663-45956-01-EL		032046			992601				117	37
663-45958-00-36		032041			992606	993407			117	37

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller						XHS® / XHS II® Hub Kit(s)	Catalog Page #s
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia	Apollo® 4-Blade		
YAMAHA® (Continued)									
663-45958-00-EL	032041			992606	993407			117	37
663-45958-01-36	032041			992606	993407			117	37
663-45958-01-EL	032041			992606	993407			117	37
663-45976-00-00		Painted Stainless Steel		993408				117	37
664-45941-01-36	022001			992501				123	37
664-45941-01-00	022001			992501				123	37
664-45941-01-EL	022001			992501				123	37
664-45945-00-36	022002								37
664-45945-00-00	022002								37
664-45945-00-EL	022002								37
664-45949-02-00			933013	992505				123	37
664-45949-02-EL			933013	992505				123	37
664-45952-00-00				992506				123	37
664-45952-00-EL				992506				123	37
664-45954-00-EL	022003			992504				123	37
664-45954-01-EL	022003			992504				123	37
664-45970-00-98		Painted Stainless Steel	933013	992505				123	37
66K-45972-B0-00		Pro Series™		953526					39,40
66K-45974-B0-00		Pro Series™		953524	993046			203	39,40
683-45943-00-36	102005								32
683-45943-00-EL	102005								36
683-45945-00-36	102004								36
683-45945-00-EL	102004								36
683-45947-00-36	102003								36
683-45947-00-EL	102003								36
683-W4591-02-EL	102003								36
68F-45970-00-00		Reliance®	933515	992002	993042			203	39,40
68F-45972-00-00		Reliance®	101027	933517	992003	993043	993023	993203	203
68F-45974-00-00		Reliance®	101028	933519	992004	993044	993024	993204	203
68F-45976-00-00		Reliance®		933521	992005	993045	993025	993205	203
68G-45972-00-00		Reliance® (LH)		937517		993053	993033	993213	203
68G-45974-00-00		Reliance® (LH)		937519		993054	993034	993214	203
68G-45976-00-00		Reliance® (LH)		937521		993055	993035	993215	203
68U-45941-00-EL	032046				992402				117
69L-45974-20-00		V MAX®			992006	993046	993026	993206	203
69W-45943-00-00	032040		933215			993408			117
69W-45943-00-EL	032040		933215			993408			117
69W-45945-00-00	032042		993213	992605		993406			117
69W-45945-00-EL	032042		993213	992605		993406			117
69W-45947-00-00	032044			992603					117
69W-45947-00-EL	032044			992603					117
69W-45952-00-00	032043			992604	993405				117
69W-45958-00-00	032041			992606	993407				117
69W-45958-01-00	032041			992606	993407				117
6CB-45974-00-00		V MAX® Ventless	933523						203
6D0-45970-00-00		Saltwater Series II™	101028	933519	992004	993044	993024	993204	203
6D0-45972-00-00		Saltwater Series II™		933521	992005	993045	993025	993205	203
6D0-45978-00-00		Saltwater Series II™	101027	933517	992003	993043	993023	993203	203
6D1-45970-00-00		Saltwater Series II™ (LH)		937519		993054	993034	993214	203
6D1-45972-00-00		Saltwater Series II™ (LH)		937521		993055	993035	993215	203
6D1-45978-00-00		Saltwater Series II™ (LH)		937517		993053	993033	993213	203
6E5-45941-00-00	101034		933419	992215		993145			See Note 1
6E5-45941-00-36	101034		933419	992215		993145			See Note 1
6E5-45941-00-EL	101034		933419	992215		993145			See Note 1
6E5-45943-00-00	101135		933421	992216		993146			See Note 1
6E5-45943-00-36	101135		933421	992216		993146			See Note 1
6E5-45943-00-EL	101135		933421	992216		993146			See Note 1
6E5-45945-00-36	101033		933417	992214		993144			See Note 1
6E5-45945-00-EL	101033		933417	992214		993144			See Note 1
6E5-45945-01-00	101033		933417	992214		993144			See Note 1
6E5-45945-01-EL	101033		933417	992214		993144			See Note 1
6E5-45947-00-00	101032		933415	992213		993143			See Note 1
6E5-45947-00-36	101032		933415	992213		993143			See Note 1
6E5-45947-00-EL	101032		933415	992213		993143			See Note 1
6E5-45949-00-00	101031			992212					See Note 1
6E5-45949-00-36	101031			992212					See Note 1
6E5-45949-00-EL	101031			992212					See Note 1
6E5-45954-00-00	101136			992209					See Note 1
6E5-45954-00-EL	101136			992209					See Note 1
6E5-45970-10-00	101028		933519	992004	993044	993024	993204	203	39,40
6E5-45970-10-98	101028		933519	992004	993044	993024	993204	203	39,40

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller						XHS® / XHS II® Hub Kit(s)	Catalog Page #s	
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia	Apollo® 4-Blade			
YAMAHA® (Continued)										
6E5-45972-10-00		933523			992006	993046	993026	993206	203	39,40
6E5-45972-10-98		933523			992006	993046	993026	993206	203	39,40
6E5-45976-10-00	101029	933521			992005	993045	993025	993205	203	39,40
6E5-45976-10-98	101029	933521			992005	993045	993025	993205	203	39,40
6E5-45978-10-00		933525							203	39,40
6E5-45978-10-98		933525							203	39,40
6G1-45943-00-00	102002									36
6G1-45943-00-36	102002									36
6G1-45943-00-EL	102002									36
6G5-45930-00-98		933525							203	39,40
6G5-45941-00-00	101025	933515		992002	993042	993022			203	39,40
6G5-45941-00-36	101025	933515		992002	993042	993022			203	39,40
6G5-45941-00-98	101025	933515		992002	993042	993022			203	39,40
6G5-45941-00-EL	101025	933515		992002	993042	993022			203	39,40
6G5-45943-00-36	101029	933521		992005	993045	993025	993205		203	39,40
6G5-45943-00-EL	101029	933521		992005	993045	993025	993205		203	39,40
6G5-45943-01-00	101029	933521		992005	993045	993025	993205		203	39,40
6G5-45943-01-98	101029	933521		992005	993045	993025	993205		203	39,40
6G5-45945-00-36	101028	933519		992004	993044	993024	993204		203	39,40
6G5-45945-00-EL	101028	933519		992004	993044	993024	993204		203	39,40
6G5-45945-01-00	101028	933519		992004	993044	993024	993204		203	39,40
6G5-45945-01-98	101028	933519		992004	993044	993024	993204		203	39,40
6G5-45945-01-EL	101028	933519		992004	993044	993024	993204		203	39,40
6G5-45947-01-00	101027	933517		992003	993043	993023	993203		203	39,40
6G5-45947-01-98	101027	933517		992003	993043	993023	993203		203	39,40
6G5-45947-01-EL	101027	933517		992003	993043	993023	993203		203	39,40
6G5-45949-00-36		933523		992006	993046	993026	993206		203	39,40
6G5-45949-00-98		933523		992006	993046	993026	993206		203	39,40
6G5-45949-00-EL		933523		992006	993046	993026	993206		203	39,40
6G5-45970-00-98	101025	933515		992002	993042				203	39,40
6G5-45970-01-98	101025	933515		992002	993042				203	39,40
6G5-45970-02-98	101025	933515		992002	993042				203	39,40
6G5-45972-00-98	Painted Stainless Steel	101029	933521		992005	993045	993025	993205	203	39,40
6G5-45972-01-98	Painted Stainless Steel	101029	933521		992005	993045	993025	993205	203	39,40
6G5-45972-02-98	Painted Stainless Steel	101029	933521		992005	993045	993025	993205	203	39,40
6G5-45972-03-98	Painted Stainless Steel	101029	933521		992005	993045	993025	993205	203	39,40
6G5-45974-00-98	Painted Stainless Steel	101028	933519		992004	993044	993024	993204	203	39,40
6G5-45974-01-98	Painted Stainless Steel	101028	933519		992004	993044	993024	993204	203	39,40
6G5-45974-02-98	Painted Stainless Steel	101028	933519		992004	993044	993024	993204	203	39,40
6G5-45974-03-98	Painted Stainless Steel	101028	933519		992004	993044	993024	993204	203	39,40
6G5-45976-00-98	Painted Stainless Steel	101029	933523		992005	993046	993026	993206	203	39,40
6G5-45976-01-98	Painted Stainless Steel	101029	933523		992005	993046	993026	993206	203	39,40
6G5-45978-00-98	Painted Stainless Steel	101027	933517		992003	993043	993023	993203	203	39,40
6G5-45978-01-98	Painted Stainless Steel	101027	933517		992003	993043	993023	993203	203	39,40
6G5-45978-02-98	Painted Stainless Steel	101027	933517		992003	993043	993023	993203	203	39,40
6G5-45978-03-98	Painted Stainless Steel	101027	933517		992003	993043	993023	993203	203	39,40
6H5-45943-00-00					992408				117	37
6H5-45943-00-EL					992408				117	37
6H5-45945-00-00					992406				117	37
6H5-45945-00-EL					992406				117	37
6H5-45952-00-00					992405				117	37
6H5-45952-00-EL					992405				117	37
6H5-45958-00-00					992407				117	37
6H5-45958-00-EL					992407				117	37
6J9-45972-B0-00	Pro Series™		953524			993046	993026	993206	203	39,40
6J9-45976-10-00	Pro Series™		953522			993045	993025	993205	203	39,40
6K1-45945-00-98			937519			993054	993032	993214	203	39,40
6K1-45947-00-98			937517			993053	993033	993213	203	39,40
6K1-45970-00-98						993052	993022		203	39,40
6K1-45970-01-98	Painted Stainless Steel (LH)					993052	993022		203	39,40
6K1-45972-00-00	Painted Stainless Steel (LH)		937521			993055	993035	993215	203	39,40
6K1-45972-00-98	Painted Stainless Steel (LH)		937521			993055	993035	993215	203	39,40
6K1-45972-01-98	Painted Stainless Steel (LH)		937521			993055	993035	993215	203	39,40
6K1-45974-00-00	Painted Stainless Steel (LH)		937519			993054	993034	993214	203	39,40
6K1-45974-01-98	Painted Stainless Steel (LH)		937519			993054	993034	993214	203	39,40
6K1-45974-02-98	Painted Stainless Steel (LH)		937519			993054	993034	993214	203	39,40
6K1-45976-00-98	Painted Stainless Steel (LH)		937523			993056	993036	993216	203	39,40
6K1-45978-01-98	Painted Stainless Steel (LH)		937523			993056	993036	993216	203	39,40
6K1-45978-00-00	Painted Stainless Steel (LH)		937517			993053	993033	993213	203	39,40
6K1-45978-00-98	Painted Stainless Steel (LH)		937517			993053	993033	993213	203	39,40
6K1-45978-01-98	Painted Stainless Steel (LH)		937517			993053	993033	993213	203	39,40

MICHIGAN WHEEL OEM CROSS REFERENCE

Original Equipment Manufacturer Part & Trade Mark	Standard Hub Propeller	XHS® / XHS II® Hub Propeller						XHS® / XHS II® Hub Kit(s)	Catalog Page #s
	Michigan Match®	Ballistic®	Ballistic® XL	Vortex® XHS	Apollo® Std.	Apollo® Lg. Dia	Apollo® 4-Blade		

YAMAHA® (Continued)

6R4-45970-AO-00	Saltwater Series™	101028	933519		992004	993044	993024	993214	203	39,40
6R4-45972-AO-00	Saltwater Series™	101029	933521		992005	993045	993025	993215	203	39,40
6R4-45974-AO-00	Saltwater Series™		933523		992006	993046	993026	993206	203	39,40
6R4-45976-AO-00	Saltwater Series™		933523		992006	993046	993026	993206	203	39,40
6R4-45978-AO-00	Saltwater Series™	101027			992003	993043	993023	993203	203	39,40
MAR-GYT3B-02-13	Performance 3-Blade		933013						117	37
MAR-GYT3B-03-12	Performance 3-Blade	032043			992604	993405			117	37
MAR-GYT3B-03-13	Performance 3-Blade	032042	993213		992605	993406			117	37
MAR-GYT3B-03-14	Performance 3-Blade	032041			992606	993407			117	37
MAR-GYT3B-03-15	Performance 3-Blade	032040	933215		992408	993408			117	37
MAR-GYT3B-V4-14	Performance 3-Blade		933415						See Note 1	38
MAR-GYT3B-V4-16	Performance 3-Blade	101032	933417		992213	993143			See Note 1	38
MAR-GYT3B-V4-18	Performance 3-Blade	101033	933419		992214	993144			See Note 1	38
MAR-GYT3B-V4-20	Performance 3-Blade	101034	933421		992215	993145			See Note 1	38
MAR-GYT3B-V4-22	Performance 3-Blade	101135			992216	993146			See Note 1	38
MAR-GYT3B-V6-16	Performance 3-Blade		933517		992002	993042			203	39,40
MAR-GYT3B-V6-18	Performance 3-Blade	101027	933519		992003	993043	993023	993203	203	39,40
MAR-GYT3B-V6-20	Performance 3-Blade	101028	933521		992004	993044	993024	993204	203	39,40
MAR-GYT3B-V6-22	Performance 3-Blade	101029	933523		992005	993045	993025	993205	203	39,40
MAR-GYT3B-V6-24	Performance 3-Blade		933525		992006	993046	993026	993206	203	39,40
MAR-GYT3B-XL-23	Performance XL		953524						203	39,40
MAR-GYT3B-XL-25	Performance XL		953526						203	39,40
MAR-GYT4B-V6-23	Performance 4-Blade		963523					993206	203	39,40
MAR-GYT4B-V6-25	Performance 4-Blade		963525						203	39,40
MAR-GYT4B-V6-26	Performance 4-Blade		963527						203	39
MAR-VMAX3-04-18		101034	933419		992214	993144			See Note 1	38
MAR-VMAX3-04-20		101135	933421		992215	993145			See Note 1	38
MAR-VMAX3-04-22					992216	993146			See Note 1	38
MAR-VMAX3-06-16		101025	933517		992002	993042	993022		203	39,40
MAR-VMAX3-06-18		101027	933519		992003	993043	993023	993203	203	39,40
MAR-VMAX3-06-20		101028	933521		992004	993044	993024	993204	203	39,40
MAR-VMAX3-06-22		101029	933523	963523	992005	993045	993025	993205	203	39,40
MAR-VMAX3-06-24			933525	963525	992006	993046	993026	993206	203	39,40
MAR-VMAX3-06-26				963527					203	39,40
MAR-VMAX3-C6-18			937519			993053	93033	993213	203	39,40
MAR-VMAX3-C6-20			937521			993054	993034	993214	203	39,40
MAR-VMAX3-C6-22			937523			993056	993036	993216	203	39,40

YAMAHA®	
Note 1	T50, 1996-Present; 15 Tooth Spline 208
	60-100 HP (Including 4-Stroke), 1984-Present; 15 Tooth 208
	80-140 HP, 1978-1983; 15 Tooth Spline 202
	115-130 HP, 1984-Present; 15 Tooth Spline 203

HONDA® OUTBOARDS	
Note 3	75-90 HP, Thru 1988; 15 Tooth Spline 202
	75-90 HP, 1999-Present; 15 Tooth Spline 207
	115-130 HP, 1998-Present; 15 Tooth Spline 207
FORCE®	
	75-150 HP, 1995-Present; 15 Tooth Spline 202
YAMAHA®	
	80-140 HP, 1978-1983; 15 Tooth Spline 202

EVINRUDE®/JOHNSON® OUTBOARDS	
Note 5	60 HP & 70 HP 4-Stroke, 1998-Present; 13 Tooth Spline 210
	All Other V4 Engine Applications; 13 Tooth Spline 206
OMC®/COBRA® STERNDRIVES	
	Model 400/Cobra Stern drives; 13 Tooth Spline 206

EVINRUDE®/JOHNSON® OUTBOARDS	
Note 2	90-140 HP Large Gearcase, 1976-1990; 15 Tooth Spline 201
	90-140 HP Large Gearcase, 1991-Present; 15 Tooth Spline 200
	150-300 HP, 1976-1990; 15 Tooth Spline 201
	150-300 HP, 1991-Present; 15 Tooth Spline 200

OMC®/COBRA® STERNDRIVES	
	Model 800/Cobra/King Cobra, 1978-1990; 15 Tooth Spline 201
	Model 800/Cobra/King Cobra, 1991-1994; 15 Tooth Spline 200

SUZUKI®	
Note 4	DF90/DF115, 2001-Present; 15 Tooth Spline 225
	DF140, 2001-Present; 15 Tooth Spline 226
	DF70A/DF80A/DF90A, 2009-Present; 15 Tooth Spline 227
JOHNSON®	
	90/115 HP (4-Stroke), 2003-Present; 15 Tooth Spline 225
	140 HP (4-Stroke), 2003-Present; 15 Tooth Spline 226
YAMAHA®	
	50-100 HP (Including 4-Stroke), 1984-Present; 15 Tooth 208
	115-130 HP, 1984-Present; 15 Tooth Spline 203

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Additional product names may belong to Original Equipment Manufacturers (OEM). All references to OEM, after-market, their trade names or their part numbers are for replacement identification purposes only.



LIMITED WARRANTY

Michigan Wheel Marine warrants to the original consumer purchaser and original motor fitted, that for a period of one year from the date of purchase, the body of the Michigan Match[®], Vortex[®], Apollo[®] or Ballistic[®] propeller will be free of any defect in material or workmanship that results in blade or hub fracture or failure under normal pleasure boat usage. Michigan Wheel Marine also warrants to the original consumer purchaser, under the same parameters of use described above, that the propeller bushing, including XHS[®]/XHS II[®] hub kit components, will be free from any defect in material or workmanship for a period of one year from the date of purchase. Proof of purchase required for all warranty claims.

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

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

The above warranty is Michigan Wheel Marine's sole warranty for the Michigan Match[®], Vortex[®], Apollo[®] or Ballistic[®] propellers as well as XHS[®]/XHS II[®] hub kits. Michigan Wheel Marine expressly disclaims all other warranties, expressed or implied, including, without limitation, the warranties of merchantability and fitness for a particular purpose and excludes all liability for incidental or consequential damages, loss of use of the propeller, costs, and expenses.

Any actions arising out of this warranty and the sale of this product 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 Marine
1501 Buchanan Avenue S.W.
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 Marine** per instructions on this warranty statement and not to the **NMPA**.



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