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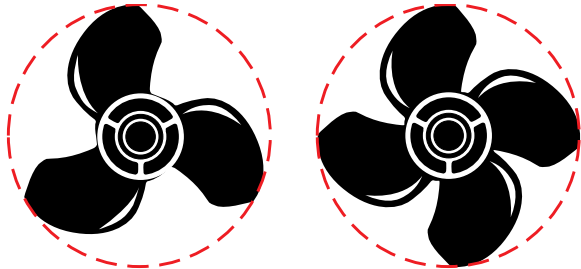
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# PROPELLER BASICS

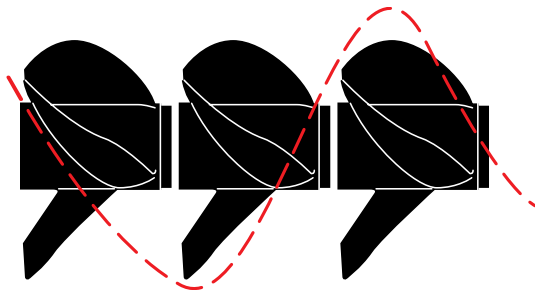
## Diameter

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.



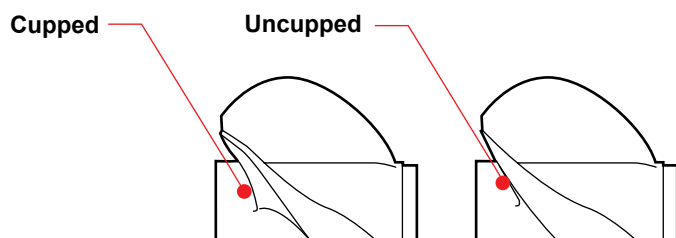
## Pitch

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 a better hole shot in many cases. A cupped propeller also works very well where the motor can be trimmed so that the propeller is near the surface of the water. The cup will typically result in higher top end speed on one of these applications.

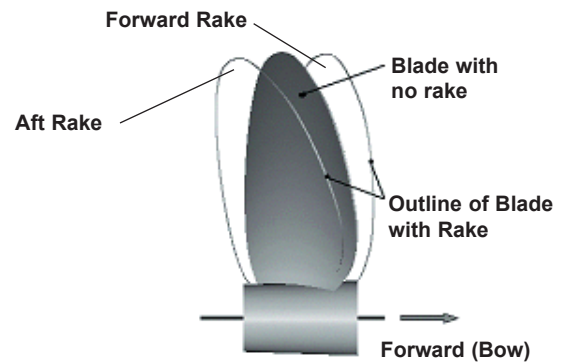


## Rake

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

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

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



## Ventilation

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

## Cavitation

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

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

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

# PROPELLER CHARACTERISTICS

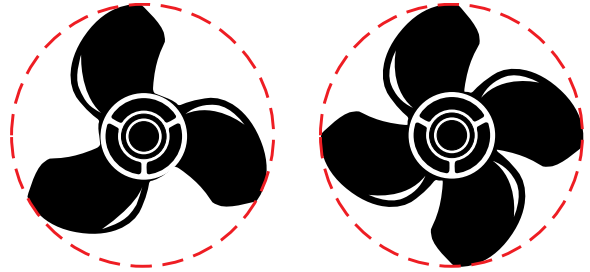
Finding the right match between the propeller, engine type and boat size will optimize the following performance factors — increased top end, faster planing speed, improved low end punch and load carrying capability.

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

## 3 blades ... or 4?

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

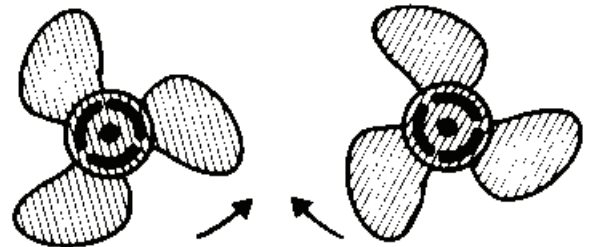
We recommend 4-blade propellers for bass boats and boats with high performance hulls running high horsepower outboard engines. Compared to 3 blades, they provide better "hole shot" performance with less steering torque and less vibration at high speeds.



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

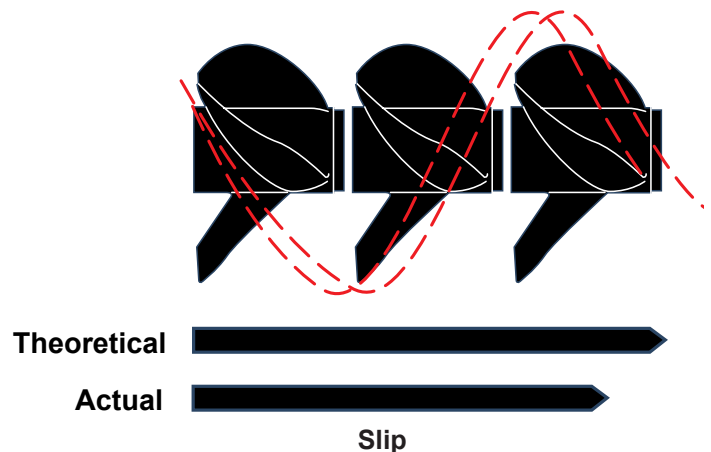
Two propellers spinning the same direction on twin engine boats will create steering torque. In other words, two right-hand propellers pull the stern hard to the right and the bow to the left.

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



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

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



# PROPELLER CHARACTERISTICS

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

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

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

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

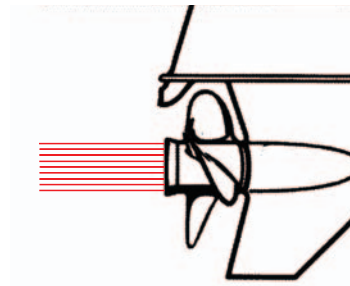
**Over/Thru-hub exhaust propellers** are a combination of thru-hub and over-hub exhaust propellers. This allows some exhaust to escape at lower RPMS, providing a controlled amount of exhaust flooding. These types of propellers will allow the propeller to be slightly easier to turn during initial acceleration,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

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

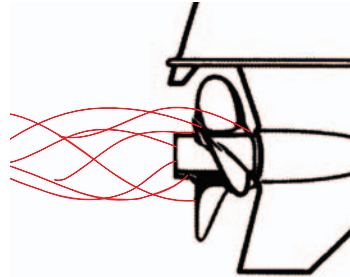
## Aluminum vs. Stainless Steel?

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

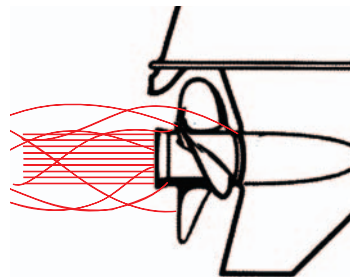
Stainless steel is more expensive, but much stronger and durable than aluminum. If you are looking for better performance than can be provided by your aluminum propeller, such as ultimate top speed or better acceleration, a stainless steel propeller may be required.



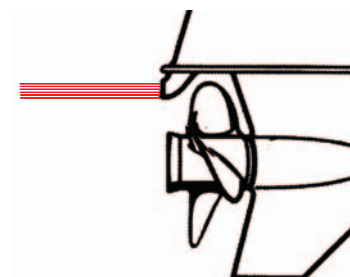
THRU-HUB EXHAUST  
PROPELLERS



OVER-HUB EXHAUST  
PROPELLERS



OVER/THRU-HUB  
EXHAUST PROPELLERS



NON THRU-HUB EXHAUST  
PROPELLERS

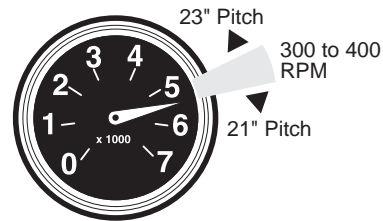
# DETERMINING RPM

## Now, determine your wide open throttle (WOT) RPM

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 of RPM adjustment.

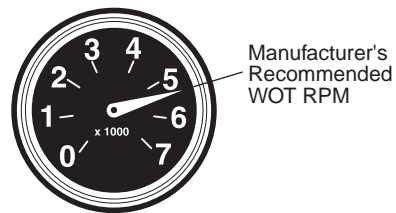
### Effect of Prop Pitch on RPM

A pitch change can increase or decrease the RPM's and bring RPM's 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.



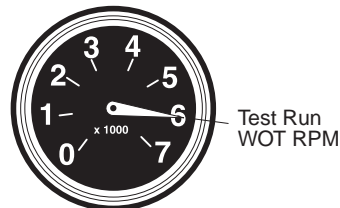
### First, Determine Manufacturer's Recommended RPM

Find the manufacturer's recommended RPM range in the owner's manual or ask your dealer.



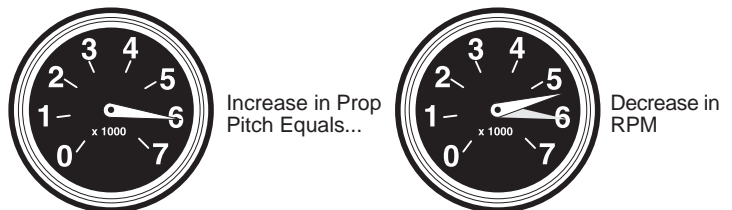
### Test for Maximum RPM

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.



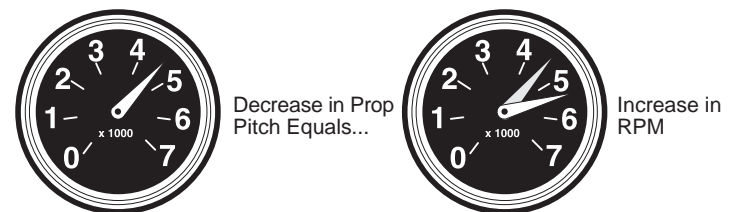
### RPM Higher Than Recommended

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



### RPM Lower Than Recommended

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



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

# ABOUT MICHIGAN MATCH™ PROPELLERS

## The perfect replacement prop!

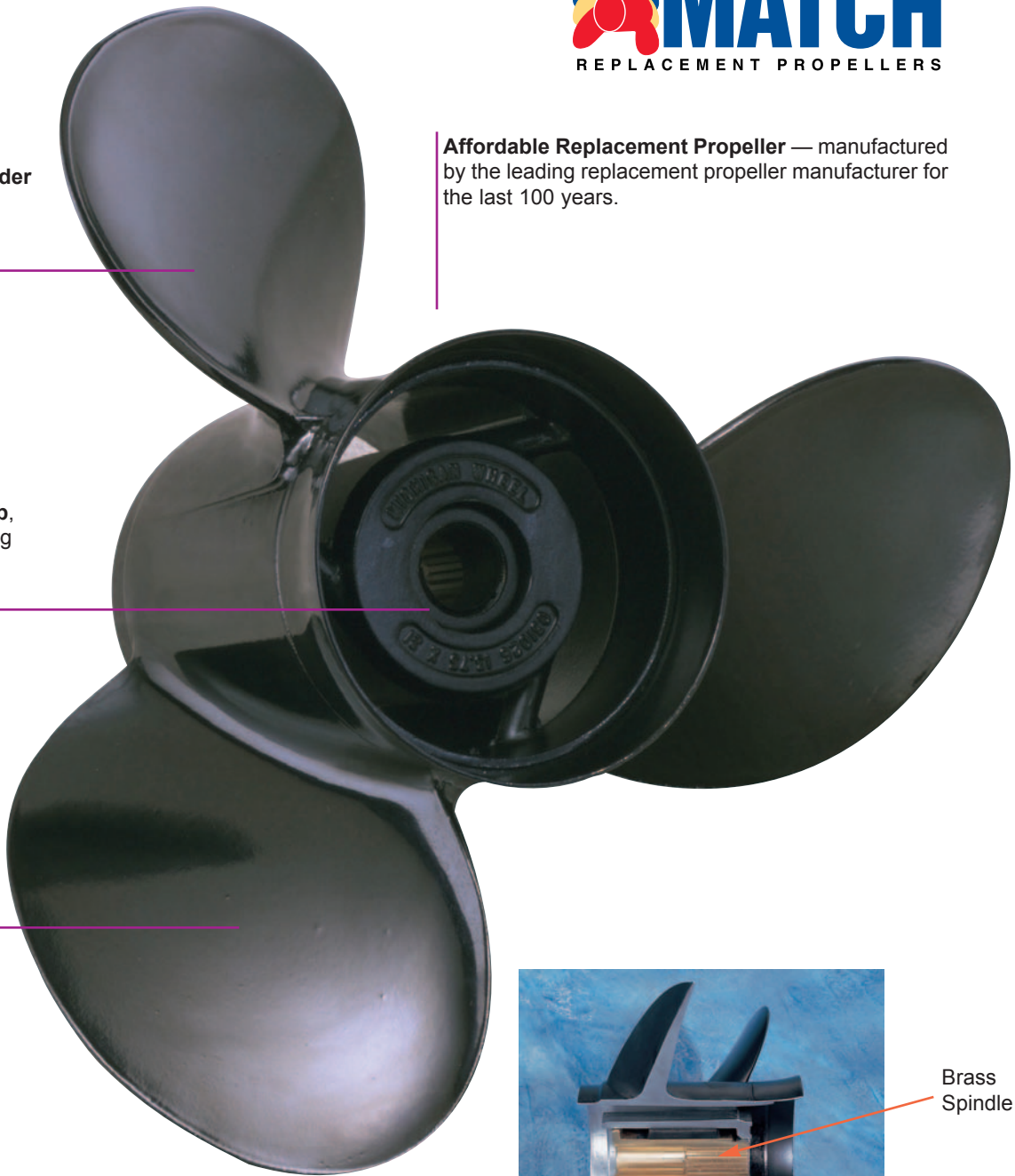


**High gloss black powder coat finish**, minimizes speed loss from drag, protects aluminum.

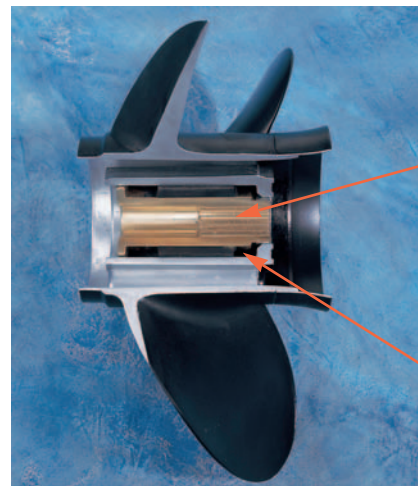
**Affordable Replacement Propeller** — manufactured by the leading replacement propeller manufacturer for the last 100 years.

**Cushioned rubber hub**, absorbs impact reducing the potential for lower unit damage.

**Warranty**, Michigan Match propellers are backed by Michigan Wheel's limited lifetime warranty.



Cutaway of Propeller and Bushing Assembly



Brass Spindle

Rubber Cushioned Hub

# ABOUT RAPTURE™ PROPELLERS

## This is Rapture™.

**RAPTURE**  
*Max-Performance Propellers*

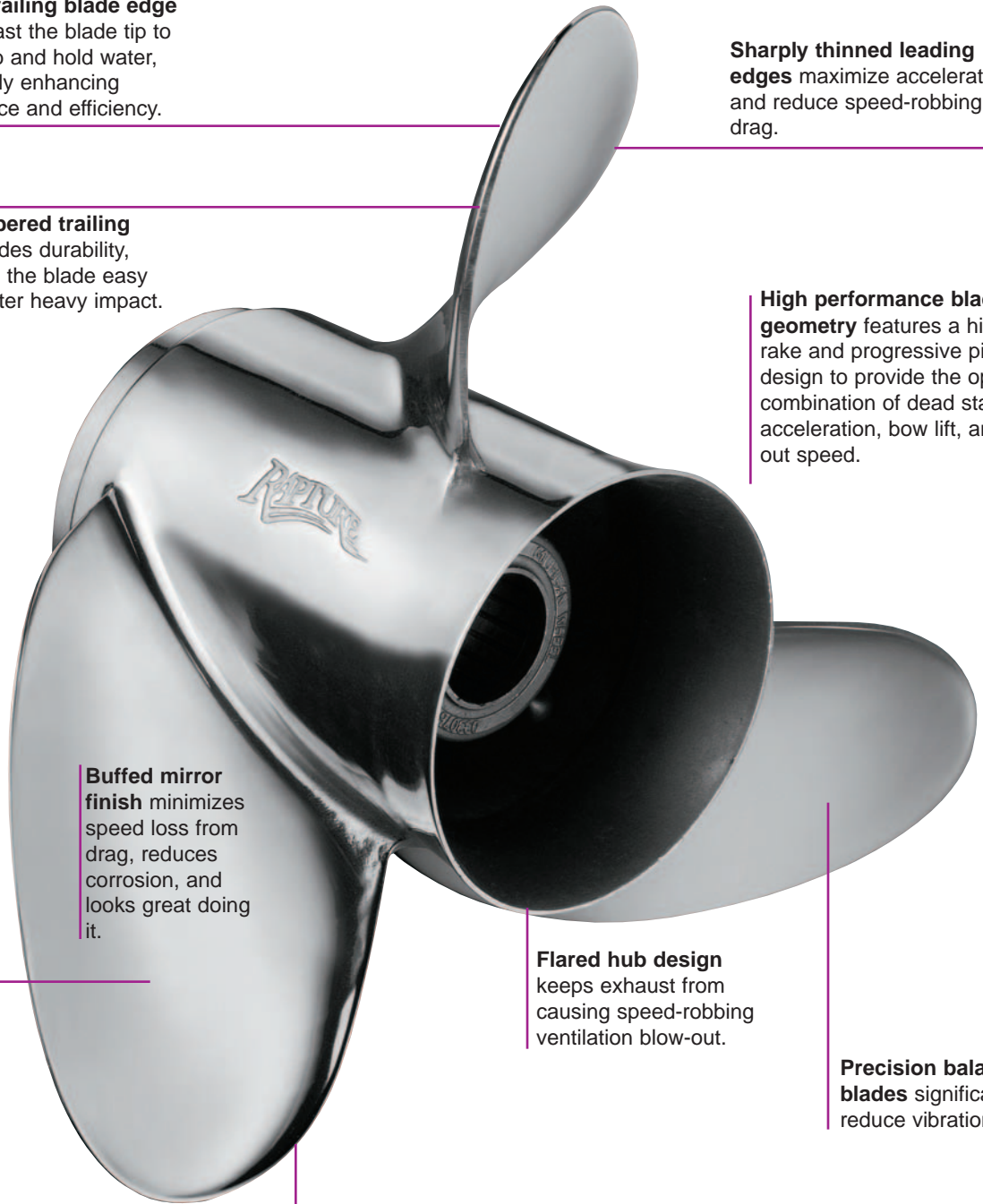
**Cupped trailing blade edge** extends past the blade tip to better grab and hold water, dramatically enhancing performance and efficiency.

**Sharply thinned leading edges** maximize acceleration and reduce speed-robbing drag.

**Thickly tapered trailing edge** provides durability, and makes the blade easy to repair after heavy impact.

**High performance blade geometry** features a high rake and progressive pitch design to provide the optimum combination of dead start acceleration, bow lift, and flat out speed.

**One piece cast construction** of premium 15-5 stainless steel alloy provides superior strength under conditions where welded blades typically fail.



**Buffed mirror finish** minimizes speed loss from drag, reduces corrosion, and looks great doing it.

**Large blade area** easily meets high horsepower demands, maximizing thrust and reducing performance-draining phenomena like ventilation or cavitation.

**Flared hub design** keeps exhaust from causing speed-robbing ventilation blow-out.

**Precision balanced blades** significantly reduce vibration.

**Optimal blade thickness** means each blade is carefully engineered thin enough to maximize speed, but thick enough to take punishment.

**Vent hole plugs\*\*** let you fine tune hole shot and acceleration performance to your unique application.

**Precision drilled vent holes\*\*** give you maximum hole shot and acceleration from a dead start.

\*\* Only available on V-4 & V-6 Applications.

# ABOUT BALLISTIC™ PROPELLERS

## Advantages That Make A Difference.

**BALLISTIC™**  
HIGH PERFORMANCE STAINLESS STEEL PROPS

**Tapered leading edge** minimizes drag, provides performance characteristics of racing style props while maintaining optimum blade strength and thickness

**Optimized power tip** for peak efficiency; blade tip and cup combine to improve bite and reduce power losses caused by cavitation

**High luster mirror finish** adds appeal and enhances corrosion resistance

Use of **standard OEM hub geometry** simplifies installation, repair and replacement

**One-piece investment cast construction** from 15-5ph stainless steel, the ideal material for strength and corrosion resistance

**Shock-absorbing hub** prevents damage to gears and shaft caused by shifting and prop impact

**Highly cambered blade sections** provide for higher speed and better bow lift

**Blades are hand balanced** during finishing to assure consistency and minimize vibration



13-inch models feature solid-cast flared hub to prevent performance loss from ventilation



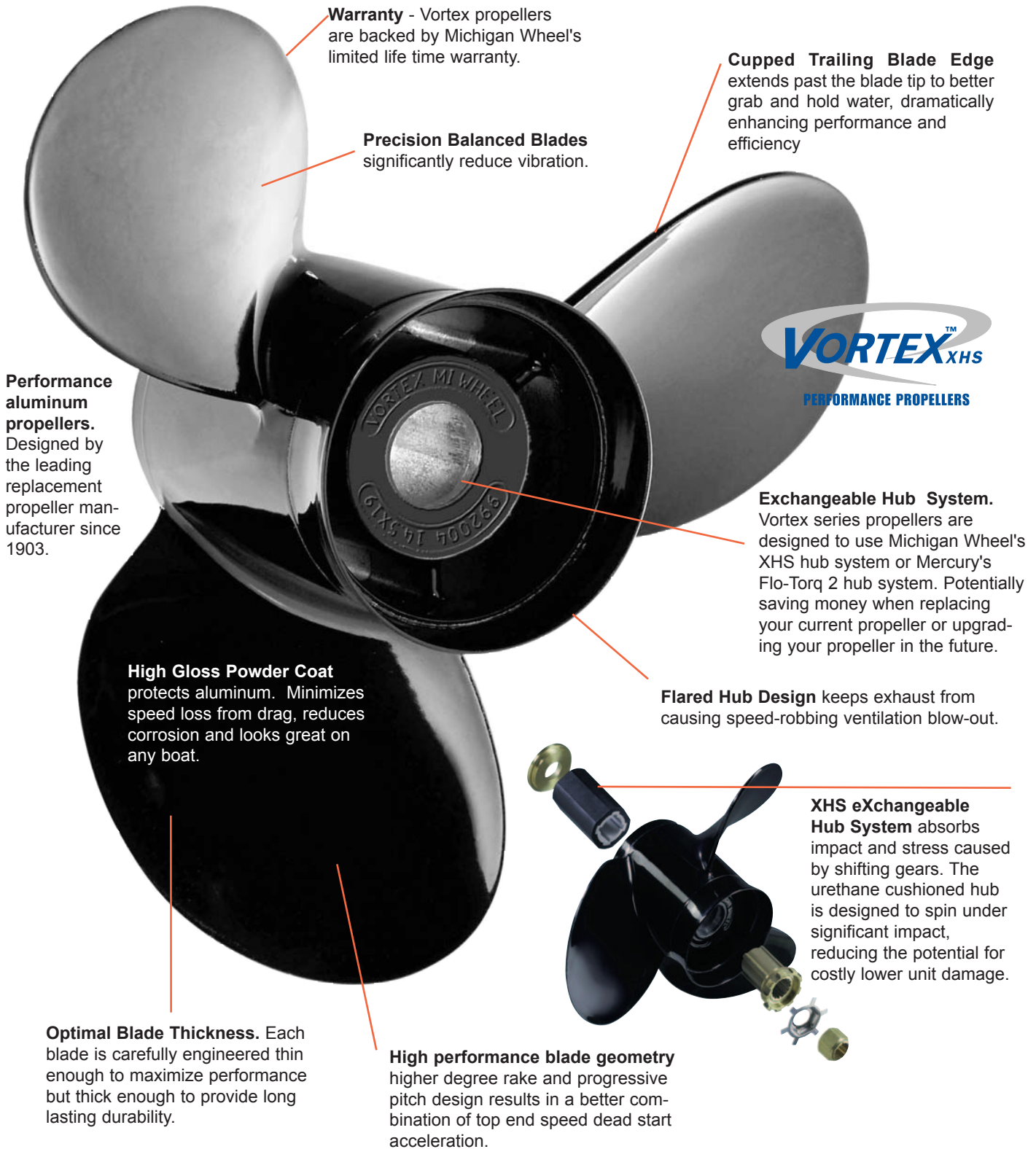
### V-6 Series

14-inch models with high pitch (21", 23" and 25") have a vented hub design that allows the engine to come up to speed and get on plane quickly



# ABOUT VORTEX™ PROPELLERS

## Vortex™ propellers and XHS™ Exchangeable Hub Systems...performance and versatility.



**Warranty** - Vortex propellers are backed by Michigan Wheel's limited life time warranty.

**Precision Balanced Blades** significantly reduce vibration.

**Cupped Trailing Blade Edge** extends past the blade tip to better grab and hold water, dramatically enhancing performance and efficiency

**Performance aluminum propellers.** Designed by the leading replacement propeller manufacturer since 1903.

**High Gloss Powder Coat** protects aluminum. Minimizes speed loss from drag, reduces corrosion and looks great on any boat.

**Exchangeable Hub System.** Vortex series propellers are designed to use Michigan Wheel's XHS hub system or Mercury's Flo-Torq 2 hub system. Potentially saving money when replacing your current propeller or upgrading your propeller in the future.

**Flared Hub Design** keeps exhaust from causing speed-robbing ventilation blow-out.

**XHS eXchangeable Hub System** absorbs impact and stress caused by shifting gears. The urethane cushioned hub is designed to spin under significant impact, reducing the potential for costly lower unit damage.

**Optimal Blade Thickness.** Each blade is carefully engineered thin enough to maximize performance but thick enough to provide long lasting durability.

**High performance blade geometry** higher degree rake and progressive pitch design results in a better combination of top end speed dead start acceleration.



AMBUSH-2002

# Smooth power times four.

The **Ambush4™** is a new, highly polished precision balanced 4 blade NiBrAl propeller designed specifically for the ski and wakeboard enthusiast. We have developed a manufacturing process that offers you the greatest combination of performance characteristics while offering blade consistency that significantly minimizes vibration, a combination that will help your driver maintain the steady speed you need.



**Ambush4™** The polish. The pull. The prop to remember.



Part Number	Dia. x Pitch	Rotation	Bore
635101	13 x 13	LH	1"
635103	13 x 13	LH	1-1/8"
635300	13 x 16	RH	1"
635302	13 x 16	RH	1-1/8"
635400	14 x 18	RH	1"
635401	14 x 18	LH	1"
635402	14 x 18	RH	1-1/8"
635403	14 x 18	LH	1-1/8"
635404	14 x 18	RH	1-1/4"
635405	14 x 18	LH	1-1/4"
Available Fall 2002: 635443	14 x 20	LH	1-1/8"

**Michigan  
Wheel  
Corporation**

Outboard/Sterndrive Division  
2685 Northridge Ave. N.W.  
Suite G  
Grand Rapids, MI 49544  
Phone: (616) 452-6941  
Fax: (616) 246-1440

Inboard Division  
1501 Buchanan Ave. S.W.  
Grand Rapids, MI 49507  
Phone: (616) 452-6941  
Fax: (616) 247-0227

E-mail: [info@miwheel.com](mailto:info@miwheel.com)  
Web site: [www.miwheel.com](http://www.miwheel.com)

# Application Guide



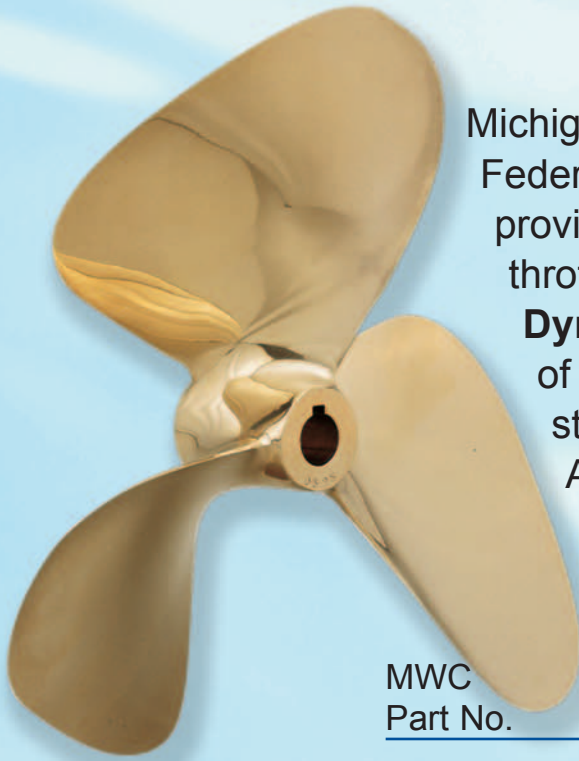
**Ambush4™**

Manufacturer	Application	Transmission	4-Blade	Ambush P/N
<b>Brendella</b>	Prior to 1992	1:1	13 x 13 LH 1"	635101
	After 1992	1:1	13 x 13 LH 1-1/8"	635103
	N/A	1.23:1	14 x 16 LH 1"	*
<b>Centurian</b>	Eclipse / Elite	1:1	13 x 13 LH 1-1/8"	635103
<b>Correct Craft</b>	Ski Nautique	1:1	13 x 13 RH 1"	*
	Ski Nautique	1.23:1	13 x 16 RH 1"	635300
	V-Drives	1.46:1	14 x 18 RH 1-1/8"	635402
	Barefoot w/454	1:1	14 x 14 RH 1"	*
<b>Malibu</b>	Prior to 1992	1:1	13 x 13 LH 1"	635101
	After 1992	1:1	13 x 13 LH 1-1/8"	635103
	Boats w/320 HP	1:1	13 x 14 LH 1-1/8"	*
	V-Drives	1.46:1	14 x 18 LH 1-1/8"	635403
	8.1 Litre	1.5	14 x 20 LH 1-1/8"	635443
<b>Mastercraft</b>	N/A	1:1	13 x 13 LH 1"	635101
	N/A	1.5:1	14 x 18 LH 1-1/8"	635403
	Boats w/454	1:1	13 x 14 LH 1"	*
	1988 TBI Eng.	1:1	13 x 13 LH 1"	635101
	1998 TBI Eng.	1.5:1	14 x 20 LH 1-1/8"	635443
<b>M.B. Sports</b>	N/A	1:1	13 x 13 LH 1-1/8"	635103
<b>Moomba</b>	Kanga, Mobios Pro	1:1	13 x 13 LH 1	635101
	Outback	1:1	13 x 13 LH 1	635101
	Kamberra, Mobius V	1.5	14 x 18 LH 1-1/8"	635403
<b>Sanger</b>	Prior to 1992	1:1	13 x 13 LH 1"	635101
	After 1992	1:1	13 x 13 LH 1-1/8"	635103
<b>Supra</b>	N/A	1:1	13 x 13 LH 1"	635101
	N/A	1.23:1	13 x 16 RH 1"	635300
	Boats w/454	1:1	N/A	*
<b>Tige</b>	201 / 2100 Riders	1:1	13 x 13 LH 1-1/8"	635103
	2100 V LTD, 21 V Riders	1.5	14 x 18 LH 1-1/8"	635403
	2300 V LTD	1.5	14 x 18 LH 1-1/8"	635403

\*Call for availability. Ski Nautique is a registered trademark of Correct Craft.

Eat My Wake

# DYNA-JET CUPPED



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

MWC Part No.	Dia. x Pitch	Rot.	Bore
310649	13 x 12	LH	1
310625	13 x 12-1/2	LH	1-1/8
310660	3 x 12-1/2	LH	1-1/8
310661	13 x 13	LH	1
310659	13 x 13	LH	1-1/8
310705	13 x 13-1/2	LH	1-1/8
310724	13 x 14	RH	1
310725	13 x 14	LH	1
310727	13 x 14	LH	1-1/8
310763	13 x 15	LH	1
310765	13 x 15	LH	1-1/8
310801	13 x 15-1/2	LH	1-1/8
310836	13 x 17	RH	1
311244	14 x 15	RH	1
311284	14 x 16	RH	1
311360	14 x 18	RH	1-1/8
311361	14 x 18	LH	1-1/8

•All styles are Dyna Jet Cup

•Dynamic Balancing



# HOW TO USE THIS SECTION

- If original equipment part number (OEM) is known and a size or style change is not desired, then refer to Part Number Cross Reference on pages 14-26 to locate the equivalent Michigan propeller.
- If an original part number is not known, the part number can not be found in the Part Number reference, or a propeller size or style change is desired, use the following procedure for selecting a propeller.

- 1 Locate the brand of outboard or sterndrive using the table of contents.
- 2 Locate the **Horsepower/Model** and **Year** that corresponds with the engine brand.
- 3 Under the corresponding "Propeller Application" heading, locate the range of your boat's length, and the boat use that best describes your vessel and usage.
- 4 Once this is located, read across to obtain the **Diameter & Pitch** of the recommended propeller for your application.

The propeller sizes to the right of the Boat Length/Description are suggested for that application. Often two or more pitch sizes are listed for a given Boat Length. The higher the pitch, the more top speed potential, but less power for acceleration. The lower the pitch, the less top speed potential but more power for acceleration.

- 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 the part number.

**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.

Example Application: 18' Runabout used mainly for skiing and cruising with the family.  
1988, 120 HP Johnson Outboard. Customer wants a cupped, aluminum propeller.

## EVINRUDE®, JOHNSON®

### 85-140 HORSEPOWER • V4 GEARCASE

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

(13 SPLINES & THRU HUB EXHAUST)

Boat Length/Description	Diameter Rot. & Pitch	Blade#	Aluminum Part No.		Stainless Part No.				Ballistic High Performance Stainless					
			OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
CR, HB	14 R 10	4		012074										
CR, HB	14 R 10	4		★011036										
CR, HB	14 R 11	3	382761	012047										
CR, HB	14 R 11	3		★011038										
CR, HB	14 R 12	4		012075										
CR, HB	14 R 12	4		★011037										
CR, HB	14 R 13	3	391668	★011001										
20-24' - AL, SK	13-3/4 R 15	3	391198	★011002	389948	013028	13-1/4 x 15	3	013076			13-5/8 x 15	3	335030
19-22' - AL, SK	13-1/4 R 17	3	391199	★011003			13-1/4 x 17	3	013077			13-1/2 x 17	3	335031
19-22' - AL, SK	13-3/8 R 17	3			389948	013030								
19-22' - AL, SK	14 R 17	3	176214	★011024										
17-19' - AL, SK	13 R 19	3	390896	★011004	389510	013033	13-1/4 x 19	3	013078			13-3/8 x 19	3	335032
17-19' - AL, SK	14 R 19	3	176215	★011025										
15-18' - AL, SK	12-3/4 R 21	3	389788	★011005	389512	013034	13-1/4 x 21	3	013079			13-1/8 x 21	3	335033
15-18' - AL, SK	14 R 21	3	176216	★011026										
High Performance														
High Performance														

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

★ Indicates Cupped Propeller

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

▶ LIMITED INVENTORY ITEMS.

# MICHIGAN WHEEL ALPHA-NUMERIC CROSS REFERENCE



Standard Hub Cross Reference

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AMC308	072014	.33,34	PJ 96	012055	.29	PR151	032089	.42,54
AMC310	072131	.35	PJ 97	012056	.29	PR153	032090	.42,54
AMC314	072133	.35	PJ 98	012057	.29	PR155	032091	.42,54
AMC316	072134	.35	PJ199-C	011015	.33,55,57	PR155-C	031001	.42
AMC394	072132	.35	PJ200-C	011016	.33,55,56,57	PR157	032092	.42,54
AMC422	012068	.28	PJ201-C	011006	.33,55,56,57	PR157-C	031002	.42
AMC490	152002	.34	PJ202-C	011007	.33,55,56,57	PR159	032093	.42,54
AMC580-S	032077	.40	PJ203-C	011008	.33,55,56,57	PR159-C	031003	.42
DQ320	012074	.31,32	PJ204-C	011009	.33,55,56,57	PR161	032094	.42,54
DQ328	012075	.31,32	PJ205-C	011010	.33,55,56,57	PR161-C	031004	.42
EWC19	012076	.29,38	PJ300	012060	.28	PR276	072054	.36
G 20	072017	.34	PM 8	032014	.39,40	PR278	072055	.36
G 30	152014	.34	PM 19	032019	.39,40	PR339	032099	.41
NP 74	302001	.32,56	PM 20	032020	.39,40	SMC 18	012101	.28,48
PC 12	072024	.34	PM 21	032021	.39,40	SMC 39	012102	.29,40,49
PC 20	072026	.34	PM 22-C	031047	.35,40	SMC292	082022	.58
PC 32	072121	.34	PM 23-C	031048	.35,40	SMC293	082021	.58
PC 28	072122	.34	PM 24-C	031049	.35,40	SMC295	082023	.58
PC112	072123	.34	PM 39	022001	.40,49	SMC348	082033	.58
PJ 3	012001	.28	PM 40	022002	.40,49	SMC349	082034	.58
PJ 7	012004	.28	PM 42	022003	.40,49	SMC374-C	031035	.54
PJ 8	012005	.28	PM211-C	031021	.43,52,50	SMC376-C	031036	.54
PJ 9	012006	.28,38	PM213-C	031022	.43,52,50	SMC378-C	031037	.54
PJ 10	012007	.28	PM215-C	031023	.43,52,50	SMC380-C	031038	.54
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PJ 16	012011	.29,38,40,49	PM221-C	031026	.43,52,50	SMC921	082045	.59
PJ 18	012013	.29,38,40,49	PM223-C	031027	.43,52,50	SMC980	082057	.59
PJ 19	012109	.29,38	PM311-C	031054	.37,39,42	SPC180	072107	.36
PJ 21	012014	.29,38	PM313-C	031055	.37,39,42	SPC182	072108	.36
PJ 22	012015	.29	PM315-C	031041	.37,39,42	SPC184	072109	.36
PJ 24	012016	.29	PM317-C	031042	.37,39,42	SSC315-C	073002	.36
PJ 29	012021	.29	PM319-C	031043	.37,39,42	SSC317-C	073003	.36
PJ 30	012022	.30	PM321-C	031044	.37,39,42	SSC319-C	073004	.36
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PJ 32	012024	.30	PM513	032039	.41,47,49	SSM245-C	033002	.43,52
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PJ 88-C	011001	.31,32,55,57	PR115	012089	.32,56	SSY617-C	103026	.50
PJ 89-C	011002	.31,32,55,57	PR118	012090	.32,56	SSY619-C	103027	.50
PJ 90-C	011003	.31,32,55,57	PR120	012091	.56	SSY717-C	103018	.51,59
PJ 91-C	011004	.31,32,55,57	PR122	012092	.56	SSY719-C	103020	.51,59
PJ 94	012053	.29	PR124	012093	.56	SSY721-C	103022	.51,59

# MICHIGAN WHEEL CROSS REFERENCE

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174812 ... VIPER™(LH)		013071	345064		33,55,56,57	203682	012001				28
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174815 ... VIPER™		013070	345034		33,55,56,57	277212	012076				29
174816 ... VIPER™		013072	345035		33,55,56,57	277440	012060				28
174889 ... VIPER™		013066	345032		33,55,56,57	277443	012076				29
174890 ... VIPER™(LH)		013067	345062		33,55,56,57	277580	012024				30
174926 ... SST II®	013052	013064	345031		33,55,56,57	277581	012024				30
174927 ... SST II® (LH)	013051	013065			33,55,56,57	277583	012076				29
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175190	012055				29	277599	012011				29
175191	012056		305029		29	277617	012028				30
175738 ... Renegade™ Bass				435036	33	277759	012008				28
175739 ... Renegade™ Bass				435037	33	277896	012033				31
176058 ... Renegade™ Bass				435035	33	278155	012033				31
176196 ... Renegade™ Bass		013079			55,57	278194	012026				30
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176215	011025	013078	335032		31,32,55,57	376072	012060				28
176216	011026	013079	335033		31,32,55,57	376506	012076				29
176421	011027	013082	325030		30	376732	012024				30
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176573 ... SST II®		013078	335032		31,32,55,57	376777	012060				28
176574 ... SST II®		013079	335033		31,32,55,57	376805	012011				29
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176576 ... Renegade™ O.S.(RH)		013068	345033		33,55,56,57	376917	012028				30
176577 ... Renegade™ O.S.(RH)		013070	345034		33,55,56,57	376968	012060				28
176578 ... Renegade O.S.(LH)		013067	345062		33,55,56,57	377410	012023				30
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176580 ... Renegade O.S.(LH)		013071	345064		33,55,56,57	377635	012007				28
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176617 ... Swept-Blade™		013068	345033		33,55,56,57	378039	012045				32,56
176618 ... Swept-Blade™(LH)		013069	345063		33,55,56,57	378040	012043				32,56
176619 ... Swept-Blade™		013070	345034		33,55,56,57	378571	012026				30
176620 ... Swept-Blade™(LH)		013071	345064		33,55,56,57	378579	012025				30
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176624 ... VIPER™		013078	335032		31,32,55,57	378581	012023				30
176625 ... VIPER™		013079	335033		31,32,55,57	379260	012042				32,56
176626 ... Swept-Blade™		013066	345032		33,55,56,57	379717	012109				29
176627 ... Swept-Blade™		013068	345033		33,55,56,57	380104	012004				28
176628 ... Swept-Blade™		013070	345034		33,55,56,57	380637	012024				30
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177035 ... SST®		013066			33,55,57	382763	011002	013076			31,32,55,57
177042 ... VIPER™		013076			31,55,56	382764	011003	013077			31,32,55,57
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Original Equipment Manufacturer Part & Trade Mark	Michigan Wheel Corporation					Original Equipment Manufacturer Part & Trade Mark	Michigan Wheel Corporation				
	Michigan Match	Rapture Stainless	Ballistic Stainless	Ballistic XL Stainless	Catalog Page #		Michigan Match	Rapture Stainless	Ballistic Stainless	Ballistic XL Stainless	Catalog Page #
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386669 . . . . .	012113 . . .				29	391201 . . . . .	011008 . . .	013068 . . .	345033 . . .		33,55,56,57
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387162 . . . . .	011009 . . .	013070 . . .			33,55,56,57	394759 . . . Raker® . . . . .		013078 . . .	335033 . . .		31,32,55,57
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6R4-45970-AO-00 SALTWATER		103048			51,59						
6R4-45972-AO-00 SALTWATER		103050			51,59						
6R4-45974-AO-00 SALTWATER		103052			51,59						
MAR-GYT3B-03-13 STAINLESS		033095			49						

Michigan Wheel Cross Reference

# OUTBOARDS APPLICATIONS



## EVINRUDE®, JOHNSON®

### 2-4 HORSEPOWER

2, 3, 3 HP .....2000 & Newer      3-4 HP Weedless .....1952-73

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
Std. Replacement	6-1/8	R 4-1/2	3	203919	●012001										

### 4-8 HORSEPOWER

4 HP .....1980-83      4.5 HP Deluxe .....1986-95      6, 7.5, 8 HP .....1980 & Newer  
(PIN DRIVE)

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
Heavy Boats, HB	8-1/2	R 7	3	391096	012031										
Std. Replacement	8-1/2	R 9	3	390237	012032										

### 5 HORSEPOWER

5 HP .....1965-68

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
12-14' - LL	8	L 7-1/2	3	380104	012004										

### 5.5-6 HORSEPOWER

5.5-6 HP .....1954-65

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
14-16' - LL	7-3/4	R 6-1/2	3		012067										
12-14' - LL	8	R 7-1/4	2	376968	012060										

### 10 HORSEPOWER

10 HP .....1951-57

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
12-14' - AL	9	R 8	3	277595	012006										

### 6-15 HORSEPOWER

6 HP .....1966-79      10 HP .....1958-63      8-15 HP .....2000 & Newer  
9.5 HP .....1964-73      10, 12, 14 HP \*\*\* .....1982-94  
(PIN DRIVE)

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
14-16' - LL	7-3/4	R 6-1/2	3		012068										
14-16' - AL, SK	8-1/4	R 8	3	387334	012008										
14-16' Runabouts	8-1/4	R 9	3	391534	012101										
12-14' - LL	8	R 7-1/4	3	376968	012005										
12-14' - LL	8-1/4	R 8-1/2	3	377635	012007										

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

\*\*\* Engines offered in European Market Only

● Hub is not included.

Standard Link Motor Application

# OUTBOARDS APPLICATIONS



## EVINRUDE®, JOHNSON®

### 9.9-15 HORSEPOWER

9.9-15 HP .....1974 & Newer      8, 9.9, 15 HP (4-Stroke) .....1995 & Newer  
(13 SPLINE & THRU HUB EXHAUST)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
Heavy Bts., SB	10	R 5	3	386669	012113									
14-16' - AL, SK	10	R 7	3	398126	012112									
Std. Replacement	9-1/2	R 10	3	174950	012111									

### 15-25 HORSEPOWER

15 HP .....1953-56      20 HP .....1969-73      25 HP .....1969-77  
18 HP .....1957-73  
(PIN DRIVE)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
CR, HB, SB	9-1/4	R 7	3	388294	012102									
16-18' - HL	9	R 8	3		012014									
Weedless	9	R 10	3	592959	012076									
14-16' - HL	9	R 9	3	379717	012109									
12-14' - HL	9	R 10	3	383629	012011									
12-14' - LL	9-1/4	R 11	3	388088	012013									
12-14' - LL	9-1/4	R 12	3		012010									

### 14-28 HORSEPOWER

14 HP .....1989      25 HP § .....1978-91      28 HP .....1986-96  
25 HP .....1978-84  
(SPLINE DRIVE)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
16-18' - HL	9	R 9	3	389068	012021									
16-18' - HL	9	R 9	3		★011030									
15-17' - AL, SK	9	R 10	3	389069	012015									
15-17' - AL, SK	9	R 10	3		★011031									
14-17' - AL, SK	9-1/4	R 11	3	388883	012016									
14-17' - LL	9-1/4	R 12	3	389944	012030									

### 20-35 HORSEPOWER

20 HP 2 Cyl. ....1984-97      25 HP 2 & 3 Cyl. ....1984 & Newer      35 HP 2 & 3 Cyl. ....1976 & Newer  
25 HP (Commercial) .....1993 & Newer      30 HP 2 Cyl. ....1984 & Newer  
(THRU HUB EXHAUST)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
CR, HB	11-1/4	R 7	3	387320	012053									
CR, HB	11-1/4	R 7	3		★011032									
17-20' - AL, SK	11	R 9	3	386317	012054									
17-20' - AL, SK	11	R 9	3		★011033									
16-18' - AL, SK	10-1/2	R 11	3	175190	012055									
15-17' - AL, SK	10	R 13	3	175191	012056						10-1/8 x 13	3	305029	
13-15' - AL, SK	10	R 15	3	390380	012057						10-1/8 x 15	3	305030	

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

★ New Cupped Version.

§ Commercial & Workhorse Engines

# OUTBOARDS APPLICATIONS



## EVINRUDE®, JOHNSON®

### 25-40 HORSEPOWER

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

(PIN DRIVE)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
CR, HB, SB	10-1/2 R 10	3	376738	012027										
17-19' - AL, SK	10-3/8 R 11-1/2	3	385955	012023										
14-16' - AL, SK	10-3/8 R 12-1/2	3	378580	012022										
14-16' - AL, SK	10-1/2 R 12	3	380637	012024										
14-16' - LL	10-3/8 R 13-1/2	3	378579	012025										
14-16' - LL	10-1/2 R 13	3	384460	012028										
12-14' - LL	10-3/8 R 14	3	378571	012026										

### 40-50 HORSEPOWER (4-Stroke)

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

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
18-21' - AL	12-1/4 R 10	3		032045			10-1/2 x 10	3	033093					
18-21' - AL	12-1/4 R 10	3		★031072										
17-19' - AL	12 R 11	3		032044										
17-19' - AL	12 R 11	3		★031073										
16-18' - LL	10-5/8 R 12	3				▶113001	10-1/2 x 12	3	033094					
15-17' - LL	11-3/4 R 12	3		032043										
14-16' - LL	11-1/2 R 13	3		032042			10-1/2 x 13	3	033095		10-1/8 x 13	3	395929	
13-15' - LL	10-1/4 R 14	3				▶113002	10-1/2 x 14	3	033096					
12-14' - LL	11-1/4 R 14	3		032041										
12-14' - LL	11 R 15	3		032040			10-1/2 x 15	3	033097		10-1/8 x 15	3	395930	
12-14' - LL	10-3/4 R 16	3		032039										

### 40-75 HORSEPOWER • SMALL GEARCASE

40 HP 2 Cyl. ....1984 & Newer	55 HP 2 Cyl. ....1976-79	Sprint .....1986-92
48 HP .....1987-96	60 HP 2 Cyl. ....1980-85	Formula E .....1986-92
50 HP 2 Cyl. ....1975 & Newer	75 HP 3 Cyl. ....1975-85	

(SMALL GEARCASE & THRU HUB EXHAUST)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
CR, HB	13 R 11	3	386907	012036			11-3/4 x 11	3	013080					
CR, HB	13 R 11	3		★011034										
15-18' - AL, SK	12-1/2 R 13	3	386909	012037	390849	013024	11-3/4 x 13	3	013081					
15-18' - AL, SK	12-1/2 R 13	3		★011035										
14-17' - AL, SK	12-1/4 R 15	3	176421	★011027										
14-17' - AL, SK	12-1/4 R 15	3	386786	012038	390850	013010	11-3/4 x 15	3	013082		12-3/8 x 15	3	325030	
13-15' - LL	11-3/4 R 17	3	176422	★011028										
13-15' - LL	11-3/4 R 17	3	386841	012039	390851	013026	11-3/4 x 17	3	013083		12 x 17	3	325031	
12-14' - LL	11-1/2 R 19	3	176423	★011029										
12-14' - LL	11-1/2 R 19	3	386908	012040										
12-14' - LL	11-1/2 R 19	3			390852	013032								

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

★ New Cupped Version.

§ Commercial & Workhorse Engines

▶ LIMITED INVENTORY ITEMS.

# OUTBOARDS APPLICATIONS



## EVINRUDE®, JOHNSON®

### 50 HORSEPOWER

50 HP V-4 (PIN DRIVE) . . . . .1958-59

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
14-16' - AL, SK	12-1/8 R 14	3	278155	012033										

### 45-75 HORSEPOWER • LARGE GEARCASE

45 HP 2 Cyl. Commercial . . . . .1986 & Newer  
 50 HP 2 Cyl. Commercial . . . . .1977-79  
 55 HP 2 Cyl. Commercial . . . . .1980 & Newer  
 65 HP 3 Cyl. Commercial . . . . .1984 & Newer  
 50 HP 2 Cyl. Pleasure . . . . .1971-74  
 50 HP 3 Cyl. Pleasure . . . . .1994 & Newer  
 55 HP 3 Cyl. Pleasure . . . . .1968-69  
 60 HP 3 Cyl. Pleasure . . . . .1970-71, 1986 & Newer  
 65 HP 3 Cyl. Pleasure . . . . .1972-73  
 70 HP 3 Cyl. Pleasure . . . . .1974 & Newer  
 75 HP 3 Cyl. Pleasure . . . . .1975-84  
 (LARGE GEARCASE & THRU HUB EXHAUST)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
CR, HB	14 R 10	4		012074										
CR, HB	14 R 10	4		011036										
CR, HB	14 R 11	3	382761	012047										
CR, HB	14 R 11	3		011038										
CR, - HB	14 R 13	3	391668	011001										
19-22' - AL	14 R 12	4		012075										
19-22' - AL	14 R 12	4		011037										
17-19' - AL, SK	13-3/4 R 15	3	391198	011002	389949	013028	13-1/4 x 15	3	013076		13-5/8 x 15	3	335030	
15-18' - AL, SK	13-1/4 R 17	3	391199	011003			13-1/4 x 17	3	013077		13-1/2 x 17	3	335031	
15-18' - AL, SK	13-3/8 R 17	3			389948	013030								
15-18' - AL, SK	14 R 17	3	176214	011024										
14-16' - AL, SK	13 R 19	3	390896	011004	389510	013033	13-1/4 x 19	3	013078		13-3/8 x 19	3	335032	
14-16' - AL, SK	14 R 19	3	176215	011025										
13-15' - AL, SK	12-3/4 R 21	3	389788	011005	389512	013034	13-1/4 x 21	3	013079		13-1/8 x 21	3	335033	
13-15' - AL, SK	14 R 21	3	176216	011026										

Standard Hub Motor Application

### 60-70 HORSEPOWER (4-STROKE)

60, 70 + (4-STROKE) . . . . .1998 & Newer

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
17-19' - AL, SK	13-3/4 R 15	3		061001		063001	13-1/4 x 15	3	063042		13-5/8 x 15	3	335530	
15-18' - AL, SK	13-1/4 R 17	3		061002		063002	13-1/4 x 17	3	063043		13-1/2 x 17	3	335531	
14-16' - AL, SK	13 R 19	3		061003		063003	13-1/4 x 19	3	063044		13-3/8 x 19	3	335532	
14-16' - LL	13 R 21	3		061004			13-1/4 x 21	3	063045		13-1/8 x 21	3	335533	

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

- ★ New Cupped Version
- + Use stopper 57632-87E10, Spacer 57633-95501, Washer 09160-18018
- \* If currently using uncupped propeller, use cupped propeller having 2" less pitch. Boats with power trim use same pitch.
- ▶ LIMITED INVENTORY ITEMS.

# OUTBOARDS APPLICATIONS



## EVINRUDE®, JOHNSON®

### 60-90 HORSEPOWER

V-4 HP (PIN DRIVE)

60,65,75,80,85,90 .....1960-68

◆ Small Hub Prop uses special small nut #302001

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
17-19' - AL, SK	10 R 9-1/4	3		379260	◆012042										
17-19' - AL, SK	10-1/4 R 10	3		378040	012043										
16-17' - AL, SK	10 R 11	3		377978	012044										
14-16' - AL, SK	10 R 12	3		378039	012045										

### 100 HORSEPOWER

100 HP (PIN DRIVE) .....1966-68

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
20-24' - 1 Engine	14 R 11	3		382676	012089										
20-24' - 1 Engine	14 R 12	3		382017	012090										

### 85-140 HORSEPOWER • V4 GEARCASE

85 HP .....1969-80, 1991-95      110 HP .....1986-89      125 HP .....1971-72  
 88 HP .....1981-1996      112 HP .....1994-96      135 HP .....1973-76  
 90 HP .....1981 & Newer      115 HP .....1973 & Newer      140 HP .....1977-94  
 100 HP .....1979-80, 1988-93      120 HP .....1986-94  
 (13 SPLINES & THRU HUB EXHAUST)

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
CR, HB	14 R 10	4			012074										
CR, HB	14 R 10	4			★011036										
CR, HB	14 R 11	3		382761	012047										
CR, HB	14 R 11	3			★011038										
CR, HB	14 R 12	4			012075										
CR, HB	14 R 12	4			★011037										
CR, HB	14 R 13	3		391668	★011001										
20-24' - AL, SK	13-3/4 R 15	3		391198	★011002	389949	013028	13-1/4 x 15	3	▶013076		13-5/8 x 15	3	335030	
19-22' - AL, SK	13-1/4 R 17	3		391199	★011003			13-1/4 x 17	3	▶013077		13-1/2 x 17	3	335031	
19-22' - AL, SK	13-3/8 R 17	3				389948	013030								
19-22' - AL, SK	14 R 17	3		176214	★011024										
17-19' - AL, SK	13 R 19	3		390896	★011004	389510	013033	13-1/4 x 19	3	▶013078		13-3/8 x 19	3	335032	
17-19' - AL, SK	14 R 19	3		176215	★011025										
15-18' - AL, SK	12-3/4 R 21	3		389788	★011005	389512	013034	13-1/4 x 21	3	▶013079		13-1/8 x 21	3	335033	
15-18' - AL, SK	14 R 21	3		176216	★011026										
High Performance												Ballistic 3 XL	13-1/2 x 22	3	335034
High Performance												Ballistic 3 XL	13-1/2 x 24	3	335035

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

- ★ New Cupped Version
- + Use stopper 57632-87E10, Spacer 57633-95501, Washer 09160-18018
- ▶ LIMITED INVENTORY ITEMS.
- \* If currently using uncupped propeller, use cupped propeller having 2" less pitch. Boats with power trim use same pitch.
- ◆ Available from Michigan Wheel Distributors - order part number 302001 (NP74)



# OUTBOARDS APPLICATIONS



## EVINRUDE®, JOHNSON®

### 90-300 HORSEPOWER • V6 GEARCASE

90 HP V-4 .....1995 & Newer	150 HP V-6 Commercial .....1993 & Newer	235 HP V-6 .....1978-85
100 HP V-4 Commercial .....1984 & Newer	155 HP V-6 Commercial .....1978 & Newer	250 HP V-6 .....2001 & Newer
115 HP V-4 .....1995 & Newer	175 HP V-6 .....1977 & Newer	2.6 Liter V-6 .....1984-85
130 HP V-4 .....1995 & Newer	185 HP V-6 .....1984-85	250 HP V-8 .....1991 & Newer
120-140 HP V-4 .....1985	200 HP V-6 .....1976 & Newer	275 HP V-8 .....1986-88
140 (25) HP V-4 .....1989-94	200 HP V-6 .....2000 & Newer	300 HP V-8 .....1986-95
150 HP V-6 .....1978 & Newer	225 HP V-6 .....1986 & Newer	3.6 Liter V-8 .....1986-87

(15 SPLINES & THRU HUB EXHAUST)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
CR, HB	15-1/2 R 10	3		¶011015										
CR, HB	15-1/2 R 13	3	391536	011016										
CR, HB	15-1/2 R 15	3	391535	011006										
CR, HB	15 R 15	3			174926	013052	14-1/4 x 15	3	▶013064	▶013065	14-7/8 x 15	3	345031	
CR, HB	15 L 15	3			174927	013051								
20-26' Bts. - AL, SK	15 R 17	3	391200	011007	391290	013044	14-1/4 x 17	3	▶013066	▶013067	14-3/4 x 17	3	345032	345062
20-26' Bts. - AL, SK	15 L 17	3			431930	013043								
18-22' Bts. - AL, SK	14-1/2 R 19	3	391201	011008	389924	013046	14-1/4 x 19	3	▶013068	▶013069	14-1/2 x 19	3	345033	345063
18-22' Bts. - AL, SK	14-1/2 L 19	3			390821	013045								
17-19' Bts. - AL, SK	14-1/4 R 21	3	391202	011009	389923	013048	14-1/4 x 21	3	▶013070	▶013071	14-3/8 x 21	3	345034	345064
17-19' Bts. - AL, SK	14-1/4 L 21	3			390822	013047								
15-18' Bts. - AL, SK	14-1/4 R 23	3	391203	011010	389019	013050	14-1/4 x 23	3	▶013072	▶013073	14--1/4 x 25	3	345035	345065
Up to 17'							14-1/4 x 25	3	▶013074	▶013075				
High Performance									Ballistic 3 XL		14-1/2 x 22	3	345041	
High Performance									Ballistic 3 XL		14-1/2 x 24	3	345037	
High Performance									Ballistic 3 XL		14-1/2 x 25	3	345038	

### High Performance 4 Blade Propellers

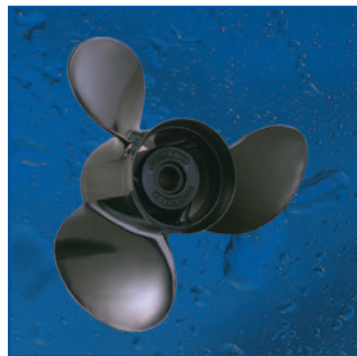
50-62 MPH	13-3/4 R 22	4			▶▶▶ 013036		Ballistic 4 XL	13-3/4 x 23	4	435035
55-67 MPH	13-3/4 R 24	4			▶▶▶ 013038		Ballistic 4 XL	13-3/4 x 25	4	435036
60-72 MPH	13-3/4 R 26	4			▶▶▶ 013040		Ballistic 4 XL	13-3/4 x 27	4	435037

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

¶ 2-1/2" of skeg must be removed for proper fit. Use thrust washer 333592.

▶ LIMITED INVENTORY ITEMS.

▶▶ Forward thrust washer A-9500-111 comes with propeller and replaces the standard OMC thrust washer, except when used on a 1991 or 1992. 1994 through current model engines use OMC thrust washer 12869.



# OUTBOARDS APPLICATIONS



## FORCE®, CHRYSLER, U.S. MARINE

### 3.5-3.6 HORSEPOWER

3.5-3.6 HP .....1969-76

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
Std. Replacement	7-1/2 L	4-1/2	2	48-FP19	072017									

### 3.5-8 HORSEPOWER

3.5 HP .....1980-84                      5 HP .....1987-98                      4, 4.4, 6, 6.6, 7, 7.5, & 8 .....1968-88  
(SPLINED SHAFT)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
Std. Replacement	7-1/4 R	5-1/2	3	48-FP488	072123									

### 5 HORSEPOWER

5 HP .....1975-77

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
Std. Replacement	7-1/2 L	5-1/2	2		072014									

### 6-10 HORSEPOWER

6-10 HP Sailor .....1976-78                      Sailor 180-250 .....1979-84

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
SB	10-3/8 R	10	3	FP-278	072014									

### 9.9-15 HORSEPOWER

9.9 HP .....1968-98                      12 HP .....1978-79                      15 HP .....1980-98  
10 HP .....1974-78                      12.9 HP .....1968-75  
(SPLINED SHAFT)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
Std. Replacement	8-1/8 R	8-1/4	3	FP408	072026									
14-16' - LL	8-1/4 R	6	3	FP395	072121									
12-14' - LL	8-1/4 R	8-1/4	2	48-FP70	072024									
12-14' - LL	8	R 9	3	FP472	072122									

### 20-25 HORSEPOWER

20-25 HP .....1968-78  
(SPLINED SHAFT)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
Std. Replacement	8-1/2 R	8-1/2	3	FP324	072002									

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

▶ LIMITED INVENTORY ITEMS.

# OUTBOARDS APPLICATIONS



## FORCE®, CHRYSLER, U.S. MARINE

### 25 HORSEPOWER

25 HP 3 Cyl. ....1995-98

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
15-19'	10-3/8 R 11	3	48-19638A40	031049										
13-17'	10-3/8 R 13	3	48-19640A40	031048							10-1/8 x 13	3	305129	
Up to 14'	10-1/4 R 14-1/2	3	48-19642A40	031047							10-1/8 x 15	3	305130	

### 20-60 HORSEPOWER

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

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
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	48-819334A4	072133										
14-16' - LL	10-3/8 R 14-1/2	3		072134										

### 40-75 HORSEPOWER

40, 50 HP .....1995-98                      70 HP .....1991-95                      75 HP .....1996-98

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
19' and Up	12-1/2 R 8	3	48-42738A10	032141										
19' and Up	12-1/2 R 8	3		★031070										
17-19' - AL, SK	11-1/4 R 10	3	48-73132A40	031015			10-1/2 x 10	3	033088					
16-18' - AL, SK	12 R 10-1/2	3	48-42740A10	032142										
16-18' - AL, SK	12 R 10-1/2	3		★031071										
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	48-79792A5	033001	10-1/2 x 12	3	033089					
14-17' - AL, SK	10-1/2 R 13	3	48-816704A40	031057			10-1/2 x 13	3	033090			10-1/8 x 13	3	395129
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	48-76230A5	033028	10-1/2 x 14	3	033091					
13-15' - LL	10-1/8 R 15	3	48-73140A40	031019			10-1/2 x 15	3	033092			10-1/8 x 15	3	395130
Up to 15' Bts.	10 R 17	3	48-73144A40	031020										

### 80 HORSEPOWER

80 HP❖❖ .....1961-65

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
16-17' - AL, SK	12-1/8 R 14	3	FP-84	012033										

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

★ New Cupped Version.

❖❖ Two piece lower unit

▶ LIMITED INVENTORY ITEMS.

# OUTBOARDS APPLICATIONS



## FORCE®, CHRYSLER, U.S. MARINE

### 70-135 HORSEPOWER

70-135 HP❖❖ .....1970-79  
(18 SPLINES)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
16-17' - AL, SK	13-1/8 R 15	3	FP-389	072032										
14-16' - AL, SK	13-1/8 R 17	3	48-FP372	072033										
Light Runabouts - LL	13-1/8 R 19	3	FP-383	072034										

### 70-140 HORSEPOWER

70-140 HP❖ .....1977-89  
(15 SPLINES)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
17-19' - AL, SK	14 R 13	3	FPS501	072054										
16-17' - AL, SK	13-1/8 R 15	3	FPS519	072055										
16-17' - AL, SK	13-3/4 R 15	3				▶073002								
14-16' - AL, SK	13-1/4 R 17	3	FPS623	072107	FP539	▶073003								
14-16' - LL	13 R 19	3	FPS625	072108	FP540	▶073004								
High Perf. Racing	13 R 21	3	FPS526	072109										

### 85-150 HORSEPOWER • SINGLE EXHAUST UNITS

85, 125 HP .....1988-89                      90 HP L-Drive .....1989-91  
 90, 120 HP .....1990-94                      120 HP L-Drive .....1989-91  
 150 HP .....1989-94                      150 HP L-Drive .....1991  
 (15 SPLINES & THRU HUB EXHAUST)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
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										
17-22' - AL, SK	13-3/4 R 15	3			FP699	*073007▶								
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										
16-20' - AL, SK	13-1/4 R 17	3			FP668	*073008▶								
16-18' - AL, SK	13 R 19	3	48-FP686-1	*071037	FP695	*073009▶								
16-18' - AL, SK	13 R 19	3	48-FP686-1	072129										
Up to 16' - AL, SK	12-5/8 R 21	3	48-FP694	*071038										
Up to 16' - AL, SK	13 R 21	3			FP69	*073010▶								

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

- ❖ One piece lower unit.                      ❖❖ Two piece lower unit.                      ▶ LIMITED INVENTORY ITEMS.
- \* If currently using uncupped propeller, use cupped propeller having 2" less pitch. Boats with power trim use same pitch.



## FORCE®, CHRYSLER, U.S. MARINE

### 75-150 HORSEPOWER • DUAL EXHAUST UNITS

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

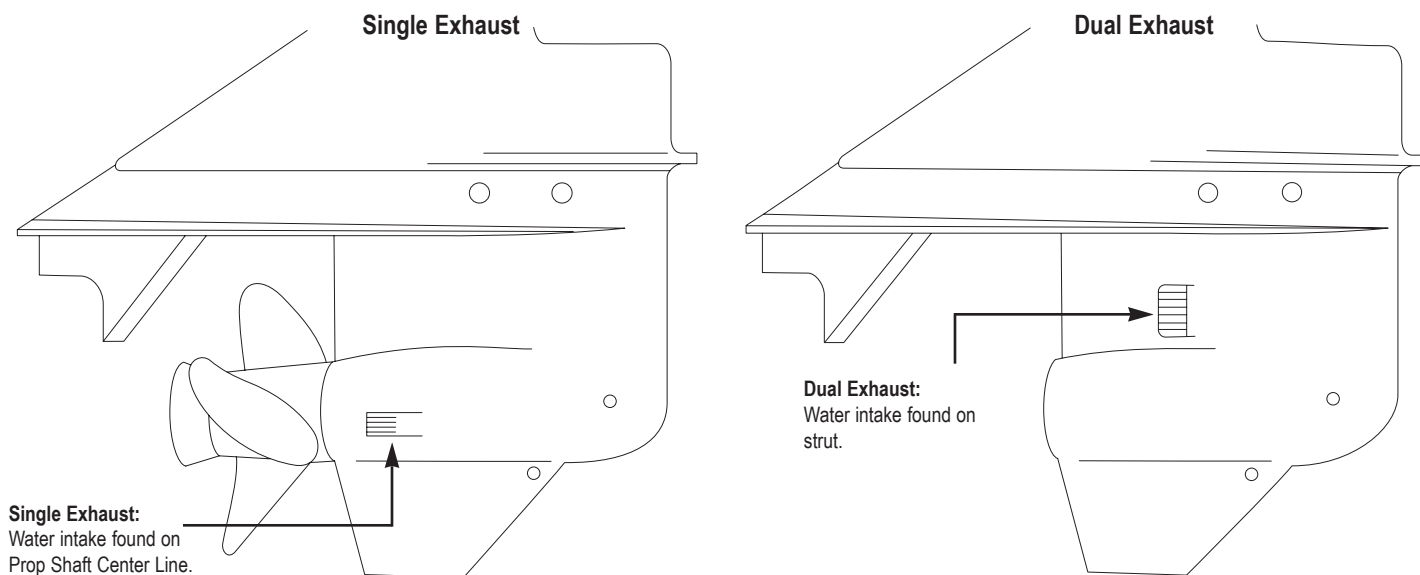
Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
25' and Up - AL	14 R 11	3	48-77338A40	031054										
22' and Up - AL	14 R 13	3	48-77340A40	031055										
19-24' - AL, SK	13-3/4 R 15	3	48-77342A40	031041	48-16986A5	033016	13-1/4 x 15	3	▶033084		13-5/8 x 15	3	335130	
17-20' - AL, SK	13-1/4 R 17	3	48-77344A40	031042	48-16988A5	033017	13-1/4 x 17	3	▶033085		13-1/2 x 17	3	335131	
16-19' - AL, SK	13 R 19	3	48-77346A40	031043	48-16990A40	★033018	13-1/4 x 19	3	▶033086		13-3/8 x 19	3	335132	
15-18' - AL, SK	12-3/4 R 21	3	48-77348A40	031044			13-1/4 x 21	3	▶033087		13-1/8 x 21	3	335133	
15-18' - AL, SK	13 R 21	3			48-16992A40	★033019								
Up to 17' - LL	12-1/2 R 23	3	48-77350A40	031045										
High Performance									Ballistic 3 XL		13-1/2 x 22	3	★335134	
High Performance									Ballistic 3 XL		13-1/2 x 24	3	★335135	

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

† For dual exhaust units only & requires thrust washer 23-819057.  
★ Requires special exhaust snout Part No. F744116 for proper fit.

†† For all units 1995 thru current. Requires thrust washer 13191A1.  
▶ LIMITED INVENTORY ITEMS.

### Single vs. Dual Exhaust



# OUTBOARDS APPLICATIONS



## HONDA

### 7.5-10 HORSEPOWER

BF 7.5 .....1978-87                      BF 8 .....1987 & Newer                      BF 100 (10 HP) .....All Years  
(PIN DRIVE)

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
SB	9-1/4	R 7	3		012102										
14-16'	9	R 8	3		012014										
14-16' - WD	9	R 8	3		012006										
14-16' - LL	9	R 9	3	58130-881-840ZA	012109										
12-14'	9	R 10	3		012011										
12-14' - WD	9	R 10	3		012076										
12-14' - LL	9-1/4	R 11	3		012013										
12-14' - LL	9-1/4	R 12	3		012010										

### 9.9-15 HORSEPOWER

BF 9.9 .....1988 & Newer                      BF 15 .....All Years

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
HL, HB	9-3/4	R 6-1/2	3	58110-ZV4-DT15	112004										
13-17' - AL	9-1/4	R 8	3		102003										
12-15' - AL	9-1/4	R 9	3	58130-ZV4-701ZA	102004										
12-15' - LL	9-1/4	R 10-1/2	3	58130-ZV4-030ZA	102005										

### 25-35 HORSEPOWER

25 HP .....All Years                      35 HP .....All Years

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
14-17' - AL												10-1/8 x 13	3	305229	
13-15' - AL												10-1/8 x 15	3	305230	

### 35-50 HORSEPOWER

BF 35 .....1991-94                      BF 45 .....1991-94  
BF 40 .....1995 & Newer                      BF 50 / 50A .....1995 & Newer

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
19-21' - AL, SK	12-1/4	R 10	3	58130-ZV5-860ZA	032045			10-1/2 x 10	3	033093					
19-21' - AL, SK	12-1/4	R 10	3		★031072										
17-19' - AL, SK	12	R 11	3		032044										
17-19' - AL, SK	12	R 11	3		★031073										
16-17' - AL, SK	11-3/4	R 12	3	58130-ZV5-850ZA	032043										
15-17' - AL, SK	10-3/8	R 12	3			▶113001		10-1/2 x 12	3	033094					
15-17' - AL, SK	11-1/2	R 13	3	58130-ZV5-000ZA	032042			10-1/2 x 13	3	033095		10-1/8 x 13	3	395929	
14-16' - AL, SK	11-1/4	R 14	3		032041										
14-16' - AL, SK	10-1/4	R 14	3			▶113002		10-1/2 x 14	3	033096					
13-15' - AL, SK	11	R 15	3	58130-ZV5-870ZA	032040			10-1/2 x 15	3	033097		10-1/8 x 15	3	395930	
12-14' - AL, SK	10-3/4	R 16	3		032039										

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

★ New Cupped Version.

▶ LIMITED INVENTORY ITEMS.

# OUTBOARDS APPLICATIONS



## HONDA

### 75-225 HORSEPOWER

75 HP .....1995 & Newer      115 HP .....1998 & Newer      200 HP .....2001 & Newer  
 90 HP .....1995 & Newer      130 HP .....1998 & Newer      225 HP .....2001 & Newer

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
25' & Up - AL	14	R 11	3	58130-ZW1-W01ZA	031054									
22' & Up - AL	14	R 13	3	58130-ZW1-W11ZA	031055									
20-24' - AL, SK	13-3/4	R 15	3	58130-ZW1-W21ZA	031041	58130-ZW1-W91	033016	13-1/4 x 15	3	▶033084		13-5/8 x 15	3	335130
17-19' - AL, SK	13-1/4	R 17	3	58130-ZW1-W31ZA	031042	58130-ZW1-V01	033017	13-1/4 x 17	3	▶033085		13-1/2 x 17	3	335131
16-18' - AL, SK	13	R 19	3	58130-ZW1-W61ZA	031043	58130-ZW1-V11	033018	13-1/4 x 19	3	▶033086		13-3/8 x 19	3	335132
15-18' - AL, SK	12-3/4	R 21	3	58130-ZW1-W41ZA	031044									
15-18' - AL, SK	13	R 21	3			58130-ZW1-V31	033019	13-1/4 x 21	3	▶033087		13-1/8 x 21	3	335133
14-16' - AL, SK	12-1/2	R 23	3	58130-ZW1-W51ZA	031045									
High Performance										Ballistic 3 XL		13-1/2 x 22	3	335134
High Performance										Ballistic 3 XL		13-1/2 x 24	3	335135

## MERCURY™, MARINER™, SEA RAY

### 7.5-10 HORSEPOWER

Merc. 7.5, 9.8 .....1968-85      110 .....1968-79  
 (THRU HUB EXHAUST)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
SB, HL	8-1/4	R 6	2		▶032014									
Std. Replacement	9	R 9	2	48-47922A10	032021									
Lt. Runabouts, - LL	9	R 10	2	48-47926A10	032019									
14-16' - AL, SK	9	R 7	3	48-47670A10	032020									

### 6-15 HORSEPOWER

6, 8, 9.9 HP (2-Stroke) .....1986 & Newer      10 HP .....1995 & Newer      15 HP (2 & 4-Stroke) .....1989 & Newer  
 9.9 HP (4-Stroke) .....2002      10, 15 HP (Sea Pro/Marathon) ....1995 & Newer

Does not include Bigfoot.  
 (THRU HUB EXHAUST)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
HB, WB	9-3/4	R 5-1/2	3	48-828148A12	032060									
HB, WB	9-3/4	R 6-1/2	3	48-828150A12	032058									
16-20' - AL	9-1/4	R 7	3	48-828152A12	032056									
14-19' - AL	9	R 8	3	48-828154A12	032054									
14-18' - AL	9	R 9	3	48-828156A12	032052									
14-16' - AL	9	R 10-1/2	3	48-828158A12	032050									

### 20 HORSEPOWER - MERCURY

Merc. 20 .....1963-81

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
Std. Replacement	9-7/8	R 11	2	48-33480A1	032135									
14-16' - AL, SK	10	R 9	3	48-86962A4	032136									

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

▶ LIMITED INVENTORY ITEMS.

# OUTBOARDS APPLICATIONS



## MERCURY™, MARINER™, SEA RAY

### 9.9-25 HORSEPOWER

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

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
15-19'	10-3/8	R 11	3	48-19638A40	031049										
13-17'	10-3/8	R 13	3	48-19640A40	031048							10-1/8 x 13	3	305129	
Up to 14'	10-1/4	R 14-1/2	3	48-19642A40	031047							10-1/8 x 15	3	305130	

### 15-25 HORSEPOWER - MARINER

15 HP . . . . .1976-81      W15 . . . . .1977-85      25 HP . . . . .1977-79  
 15A . . . . .1979-82      20 HP . . . . .1976-79  
 (PIN DRIVE)

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
HB, SB	9-1/4	R 7	3	48-96628	012102										
12-14' - HL	9	R 10	3	48-96625	012011										
12-14' - AL, SK	9-1/4	R 11	3	48-96623	012013										
12-14' - LL	9-1/4	R 12	3	48-96622	012010										

### 25-30 HORSEPOWER - MARINER

25 HP . . . . .1980-84      28 HP . . . . .1976-79      30 HP . . . . .1979-90  
 (PIN DRIVE & FLOW-THRU EXHAUST)

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
16-18' - AL, SK	9-7/8	R 9	3	48-81647	022001										
16-18' - AL, SK	9-7/8	R 9	3		★021001										
14-17' - AL, SK	9-7/8	R 10-1/2	3	48-81649	022002										
13-16' - LL	9-3/8	R 12	3	48-82826	022003										

### 40-45 HORSEPOWER - MERCURY

40 HP (Mercury) . . . . .1973-75      45 HP (Mercury) . . . . .1973-81

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
Std. Replacement	8-1/4	R 6	2	48-63494A10	032014										
15-17' - AL, SK	9	R 9	2		032021										
14-17' - AL, SK	9	R 10	2		032019										
13-15' - LL	9	R 7	3		032020										

### COMPACT ENGINE - 11 SPLINE

Mark 35A, 50, 55 . . . . .1956-61  
 Mark 58, 58A  
 Models 300, 350, 400, 500

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
16-17' - AL, SK	10	R 10	3	48-22575A2	032077										

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

★ New Cupped Version.

▶ LIMITED INVENTORY ITEMS.



# OUTBOARDS APPLICATIONS



## MERCURY™, MARINER™, SEA RAY

### MODELS 300, 350, 400, 450, 500 - (11 SPLINE)

300, 350, 400, 450, 500 .....1962-69 (THRU HUB EXHAUST)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
17-19' - AL, SK	10-1/4 R 10	3	48-33774A1	032084										
16-17' - AL, SK	10-1/4 R 11	3	48-38098A1	032085										
14-16' -AL, SK	10-1/4 R 12	3	48-38094A1	032086										
14-16' -LL	10-1/4 R 13	3	48-38090A1	032087										

### MODELS 400, 402, 500 - (13 SPLINE)

400, 402, 500 .....1970-73 (THRU HUB EXHAUST)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
14-16' - AL, SK	10-1/4 R 13	3	48-56236A1	032099										

### MODELS 402-500, 650, 60 HP

402-500 .....1974-76 650 .....1972-76 60 HP (Mariner) .....1976

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
19-22' - AL	12-1/4 R 10	3	48-61812A1	032045			10-1/2 x 10	3	033093					
19-22' - AL	12-1/4 R 10	3		★031072										
17-19' -AL, SK	12 R 11	3	48-61814A1	032044										
17-19' -AL, SK	12 R 11	3		★031073										
16-17' -AL, SK	10-5/8 R 12	3				▶113001	10-1/2 x 12	3	033094					
15-18' -AL, SK	11-3/4 R 12	3	48-61816A1	032043										
14-16' - LL	1-1/2 R 13	3	48-61818A1	032042			10-1/2 x 13	3	033095		10-1/8 x 13	3	395929	
13-15' - LL	10-1/4 R 14	3				▶113002	10-1/2 x 14	3	033096					
12-14' - LL	11-1/4 R 14	3	48-61820A1	032041										
12-14' - LL	11 R 15	3	48-61822A1	032040			10-1/2 x 15	3	033097		10-1/8 x 15	3	395930	
12-14' - LL	10-3/4 R 16	3	48-61824A1	032039										

### 25-80 HORSEPOWER

Model 402-500-700 .....1977-84 40 HP (Sea Pro/Marathon) .....1977 & Newer 60 HP (Mariner) .....1976  
 25 HP Bigfoot (4-Stroke) .....1999 & Newer 45 HP .....1986-89 60 HP (Not Bigfoot or Sea Pro) .....1978 & Newer  
 30 HP (2 & 4-Stroke) .....1994 & Newer 48 HP (Mariner) .....All Years 60 HP (2-Stroke) .....1978 & Newer  
 30 HP (Sea Pro/Marathon) .....1994 & Newer 50 HP (2 & 4-Stroke) (Not Bigfoot) .1977 & Newer 70 HP .....Thru 1983  
 35 HP .....1984-89 55 HP (Mercury/Sea Pro/Marathon) 1995 & Newer 80 HP Mariner .....1977  
 40 HP (2 & 4-Stroke) (Not Bigfoot) .1977 & Newer

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
19' & Up	12-1/2 R 8	3	48-42738A10	032141										
19' & Up	12-1/2 R 8	3		★031070										
17-19' - AL, SK	11-1/4 R 10	3	48-73132A40	031015			10-1/2 x 10	3	033088					
16-18' -AL, SK	12 R 10-1/2	3	48-42740A10	032142										
16-18' -AL, SK	12 R 10-1/2	3		★031071										
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	48-79792A5	033001	10-1/2 x 12	3	033089					
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			10-1/2 x 13	3	033090		10-1/8 x 13	3	395129	
14-16' - LL	10-3/8 R 14	3	48-816706A40	031058										
14-16' - LL	10-1/4 R 14	3	48-73138A40	031018	48-76230A5	033028	10-1/2 x 14	3	033091					
13-15' - LL	10-1/8 R 15	3	48-73140A40	031019			10-1/2 x 15	3	033092		10-1/8 x 15	3	395130	
Up to 15' - LL	10 R 17	3	48-73144A40	031020										

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



# OUTBOARDS APPLICATIONS



## MERCURY™, MARINER™, SEA RAY

### 3 CYLINDER, 4 & 6 IN LINE CYLINDER

650 4 Cyl. (2:1) .....1961-70	800-850 4 Cyl. ....1972-77	50 HP (Yamaha) .....1977
650 2 Cyl. ....Thru 1971	900-1500 Models .....Thru 1977	80 HP (Mariner) .....1977
800-850 6 Cyl. ....Thru 1972		

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot.	Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
20-24' Boats	13	R 11	3	48-35936A3	▶032089										
19-22' Boats	13	R 13	3	48-58826A3	▶032090										
17-19' - AL, SK	13	R 15	3	48-32390A3	▶032091										
17-19' - AL, SK	13	R 15	3		▶031001										
17-19' - AL, SK	13-3/4	R 15	3			48-16986A5	⚡033016	13-3/4 x 15	3	⚡033084▶					
16-17' - AL, SK	13	R 17	3	48-65022A1	▶032092										
16-17' - AL, SK	13	R 17	3		▶031002										
16-17' - AL, SK	13-1/4	R 17	3			48-16988A5	⚡033017	13-3/4 x 17	3	⚡033085▶					
15-18' - AL, SK	13	R 19	3	48-65024A1	▶032093										
15-18' - AL, SK	13	R 19	3		▶031003	48-16990A40	▼033018	13-1/4 x 19	3	⚡033086▶					
14-16' - AL, SK	13	R 21	3	48-67280A1	▶032094										
14-16' - AL, SK	13	R 21	3		▶031004	48-16992A40	▼033019	13-1/4 x 21	3	⚡033087▶					

### 60-140 HORSEPOWER • 3 CYLINDER, 4 & 6 IN LINE CYLINDER

60 HP (Bigfoot /Sea Pro Only, not 4-Stroke) 1995 & Newer	100 HP .....1988 & Newer	650 2 Cyl. ....Thru 1971
60 HP (Sea Pro/Marathon) .....1995 & Newer	115 HP .....1978 & Newer	800-850 6 Cyl. ....Thru 1972
70 HP .....1987-89	115 HP 4-Stroke .....2001 & Newer	800-850 4 Cyl. ....1972-77
75 HP (2 & 4-Stroke) .....1984 & Newer	125 HP .....1994 & Newer	900-1500 Models .....Thru 1977
75 HP (Sea Pro/Marathon) .....All Years	140 HP (Includes Sea Pro & Offshore) .1978 - 81	80 HP (Yamaha) .....1977
80 HP .....1978-89	650 4 Cyl. (2:1) .....1961-70	80 HP (Mariner) .....1977-83
90 HP (2 & 4-Stroke) .....1978 & Newer		

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot.	Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
25' & Up - AL	14	R 11	3	48-77338A40	▼031054										
22' & Up - AL	14	R 13	3	48-77340A40	▼031055										
19-24' - AL	13-3/4	R 15	3	48-77342A40	⚡031041	48-16986A5	⚡033016	13-1/4 x 15	3	⚡033084▶		13-5/8 x 15	3	335130	
17-20' - AL, SK	13-1/4	R 17	3	48-77344A40	⚡031042	48-16988A5	⚡033017	13-1/4 x 17	3	⚡033085▶		13-1/2 x 17	3	335131	
16-19' - AL, SK	13	R 19	3	48-77346A40	▼031043	48-16990A40	▼033018	13-1/4 x 19	3	⚡033086▶		13-3/8 x 19	3	335132	
15-18' - AL, SK	12-3/4	R 21	3	48-77348A40	▼031044										
15-18' - AL, SK	13	R 21	3			48-16992A40	▼033019	13-1/4 x 21	3	⚡033087▶		13-1/8 x 21	3	335133	
Lt. Runabouts, LL	12-1/2	R 23	3	48-77350A40	▼031045										
High Performance										Ballistic 3 XL		13-1/2 x 22	3	335134	
High Performance										Ballistic 3 XL		13-1/2 x 24	3	335135	

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

- ▶ Use thrust washer 65091. LIMITED INVENTORY ITEMS.
- ▼ Use thrust washer 13191A1.
- ⚡ To avoid damage or injury, replace standard trim tab with trim tab 822777A1 and thrust washer 13191A1 MUST be used.

# OUTBOARDS APPLICATIONS



## MERCURY™, MARINER™, SEA RAY

### 135-300 HORSEPOWER • V-6 GEARCASE

135 HP .....1987 & Newer      220 HP .....1987-88      275 HP .....1990-94  
 150 HP .....1978 & Newer      225 HP .....1980 & Newer      300 HP .....1983, 1999 & Newer  
 175 HP .....1978 & Newer      225 HP (Sea Pro/Marathon) .....All Years      3.4 Litre .....1984-86  
 200 HP .....1978 & Newer      250 HP .....1994 & Newer

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

Use thrust washer 13171

Add 4" pitch for twin motors

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
CR, HB	16 R 11	3	48-78112A40	031021										
CR, HB	16 R 12	3	48-16436A40	031063										
CR, HB	16 R 13	3	48-78114A40	031022										
22-25' - AL	16 R 14	3	48-16438A40	031050										
21-24' - AL	15-1/4 R 15	3	48-78116A40	031023										
21-24' - AL	14-1/2 R 15	3			48-16312A4	033002	14-1/4 x 15	3	▶033072	▶033073	14-7/8 x 15	3	345131	
20-23' - AL, SK	16 R 16	3	48-16440A40	031051										
19-23' - AL, SK	14-1/2 R 17	3	48-78118A40	031024	48-16314A4	033003	14-1/4 x 17	3	▶033074	▶033075	14-3/4 x 17	3	345132	345162
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	48-16316A4	033004	14-1/4 x 19	3	▶033076	▶033077	14-1/2 x 19	3	345133	345163
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	48-16318A4	033005	14-1/4 x 21	3	▶033078	▶033079	14-3/8 x 21	3	345134	345164
18-20' - AL, SK	14-1/4 R 21	3	48-832832A45	■031066										
17-20' - AL, SK	13-1/2 R 23	3	48-78124A40	031027	48-16320A4	033006	14-1/4 x 23	3	▶033080	▶033081	14-1/4 x 23	3	345135	345165
17-20' - AL, SK	14 R 23	3	48-832834A45	■031068										
Up to 18'	13-3/8 R 25	3	48-78126A40	031067			14-1/4 x 25	3	▶033082	▶033083	14-1/4 x 25	3	345136	
High Performance										Ballistic 3 XL	14-1/2 x 22	3	345141	
High Performance										Ballistic 3 XL	14-1/2 x 24	3	345137	
High Performance	(EFI Engine)									Ballistic 3 XL	14 x 24	3	345139	
High Performance										Ballistic 3 XL	14-1/2 x 26	3	345138	
High Performance	(EFI Engine)									Ballistic 3 XL	14 x 26	3	345140	

### High Performance 4 Blade Propellers

50-62 MPH	13-3/4 R 22	4			033038	Ballistic 4 XL	13-3/4 x 23	4	435135
55-67 MPH	13-3/4 R 24	4			033040	Ballistic 4 XL	13-3/4 x 25	4	435136
60-72 MPH	13-3/4 R 26	4			033042	Ballistic 4 XL	13-3/4 x 27	4	435137

### Stainless Steel Performance Propellers for Offshore or Heavy Boats

18-21' - AL, SK	15-1/4 R 19	3			48-13700A41	▶033030			
18-20' - AL, SK	14-3/4 R 21	3			48-13702A41	▶033032			
17-20' - AL, SK	14-5/8 R 23	3			48-13704A41	▶033034			
16-19' - AL, SK	14-1/2 R 25	3			48-13706A41	▶033036			
	15-1/4 L 19	3			48-13701A41	▶033029			
	14-3/4 L 21	3			48-13703A41	▶033031			
	14-5/8 L 23	3			48-13705A41	▶033033			
	14-1/2 L 25	3			48-13707A41	▶033035			

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

■ Larger blade area design used primarily on 1997 and newer applications.

\* Use thrust washer A-9500-110 provided with propeller.

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

▶ LIMITED INVENTORY ITEMS.

**Note:** When replacing Flo-TorqII™ plastic hub props, aft castle washer 12-31211A2 and conductivity washer 13-42351-1 are required in addition to other hardware supplied with original propeller. For complete details, see page 46.



## Replacing a Flo-Torq™ Hub with Michigan Propellers

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

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

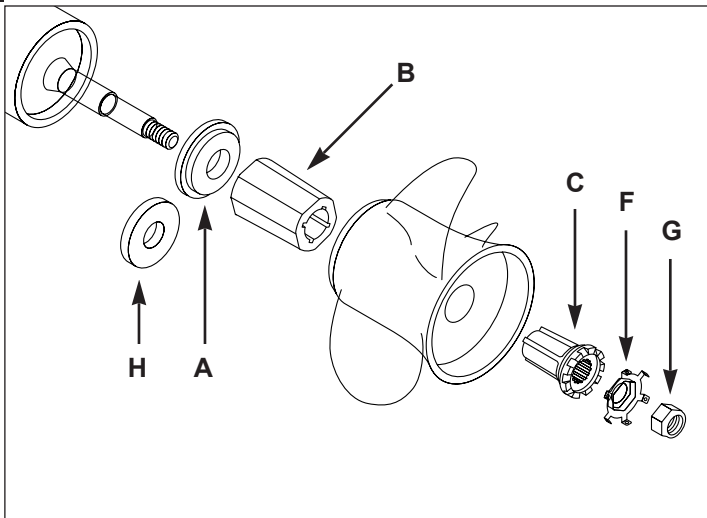
When converting to a Michigan Propeller on a **4 cylinder gear-case**, eliminate B & C, replace A with H and use existing hardware F & G.

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

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

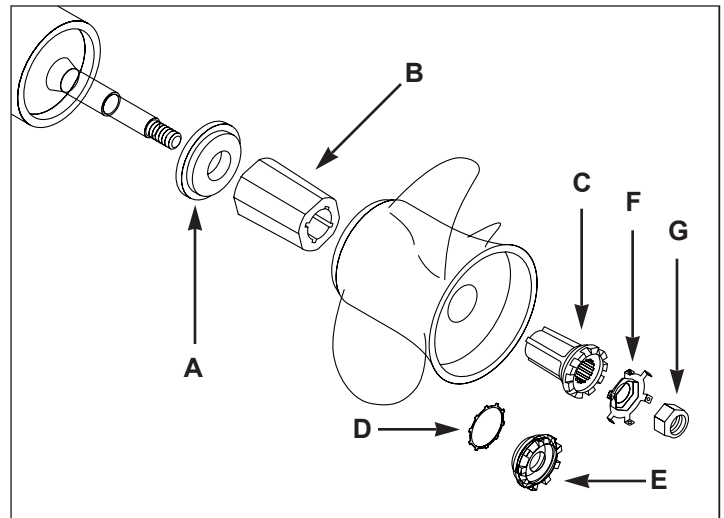
- |        |   |
|--------|---|
| 990312 | Includes D & E for the V-6 gearcase.                      |
| 990332 | Includes Forward Thrust Washer H for 4-cylinder gearcase. |
| 9661-1 | Includes A, D, E, F & G for the V-6 gearcase.             |
| 9660-1 | Includes H, F & G for the 4 cylinder gearcase.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

#### 4 Cylinder Gearcase Example part No. 031042



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

#### V-6 Gearcase Motor Example Part No. 031025



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

Standard Hub Motor Application

# OUTBOARDS APPLICATIONS



## NISSAN, TOHATSU

### 9.9-18 HORSEPOWER

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

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
14-18' - AL	9.2 R 6.9	3	362-64105-0	142015										
12-16' - AL	9.2 R 8.4	3	362-64102-0	142017										
10-14' - AL	9.2 R 9.8	3	362-64108-0	142019										

### 25-30 HORSEPOWER

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

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
16-20' - AL	10.2 R 8.3	3	346-64106-5	142020										
14-18' - AL	9.8 R 10.2	3	346-64102-5	142022										
12-16' - AL	9.9 R 13.1	3	346-64104-5	142024							10-1/8 x 13	3	305429	
12-16' - AL											10-1/8 x 15	3	305430	

### 35-50 HORSEPOWER

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

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
20' & Up - AL							10-1/2 x 10	3	143001					
17-21' - AL	10.6 R 11.3	3	361-64113-0	142001										
16-17' - AL	10.6 R 11.7	3	361-64114-0	142002			10-1/2 x 12	3	143002					
14-16' - AL	10.3 R 12.7	3	348-64102-0	142003			10-1/2 x 13	3	143003					
12-14' - AL	10.2 R 13.9	3	348-64103-0	142004			10-1/2 x 14	3	143004					
Up to 13' - AL							10-1/2 x 15		143005					

### 50-70 HORSEPOWER

50 HP (50C only) .....1987-91      60 HP .....1986 & Newer      70 HP .....1981 & Newer  
 55 HP .....1981-88

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
CR, HB	11.6 R 11	3	353-64103-0	142005			11-3/4 x 11	3	013080					
15-18' - AL, SK	11.5 R 13	3	353-64105-0	142006										
15-18' - AL, SK	12-1/2 R 13	3			013024		11-3/4 x 13	3	013081					
14-17' - AL, SK	11 R 15	3	353-64107-0	142007										
14-17' - AL, SK	12-1/4 R 15	3			013010		11-3/4 x 15	3	013082		12-3/8 x 15	3	325030	
13-15' - AL, SK	10.7 R 16.4	3	353-64108-0	142008										
13-15' - AL, SK	11-3/4 R 17	3			013026		11-3/4 x 17	3	013083		12 x 17	3	325031	
12-14' - AL, SK	10.9 R 17.6	3	353-64109-0	142009										
12-14' - AL, SK	11-1/4 R 19	3			013032		11-3/4 x 19	3	013084					

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

# OUTBOARDS APPLICATIONS



## NISSAN, TOHATSU

### 90-140 HORSEPOWER

90 HP .....1987 & Newer      120 HP .....1988 & Newer      140 HP .....1988 & Newer  
 115 HP .....1992 & Newer

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
20-24' - AL, SK	13.5 R 14.6	3		3B7-64532-0	142010										
20-24' - AL, SK	13-3/4 R 15	3					103025	13-1/4 x 15	3	▶103056		13-5/8 x 15	3	335930	
17-19' - AL, SK	13.5 R 15.7	3		3B7-64536-0	142011										
17-19' - AL, SK	13-1/4 R 17	3					103026	13-1/4 x 17	3	▶103057		13-1/2 x 17	3	335931	
16-18' - AL, SK	12.9 R 17.6	3		3B7-64541-0	142012										
16-18' - AL, SK	13 R 19	3					103027	13-1/4 x 19	3	▶103058		13-3/8 x 19	3	335932	
15-18' - AL, SK	12.6 R 19.9	3		3B7-64545-0	142013										
15-18' - AL, SK								13-1/4 x 21	3	▶103059		13-1/8 x 21	3	335933	

## SUZUKI

### 9.9-15 HORSEPOWER

DT 9.9 .....1983-87      DT 15 .....1983-88      DT 15 (4-Stroke) .....1997 & Newer  
 DF 9.9 (4-Stroke) .....1997 & Newer      DT 15C .....1989-97

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
14-20' - AL	9-1/4 R 7	3		58100-93703-019	062015										
14-18' - AL	9-1/4 R 9	3		58100-93723-019	062016										
14-16' - AL	9-1/4 R 11	3		58100-93743-019	062017										

### 25-30 HORSEPOWER

DT 25C .....1989 & Newer      DT 30, 30C .....1987-97      DF 25 (4-Stroke) .....2000 & Newer  
 DT 20, 25 .....1987-88      DT 30 @ .....1983-86      DF 30 (4-Stroke) .....200 & Newer  
 DT 20, 25 @ .....1983-86

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
16-18' - AL	10-1/4 R 11	3		58100-96420-019	062012										
16-18' - AL	10-1/4 R 11	3			★061006										
14-16' - AL	10-1/4 R 12	3		58100-96430-019	062013										
14-16' - AL	10-1/4 R 13	3		58100-96440-019	062014							10-1/8 x 13	3	305529	
												10-1/8 x 15	3	305530	

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

★ New Cupped Version.

@ Use stopper 57632-96400



# OUTBOARDS APPLICATIONS



## SUZUKI

### 35-65 HORSEPOWER

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

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
18-21' - AL	12-1/4 R 10	3	58100-95212-019	032045			10-1/2 x 10	3	033093					
18-21' - AL	12-1/4 R 10	3	58100-95212-019	★031072										
17-19' - AL	12 R 11	3	58100-95222-019	032044										
17-19' - AL	12 R 11	3	58100-95222-019	★031073										
16-18' - LL	10-5/8 R 12	3				▶113001	10-1/2 x 12	3	033094					
15-17' - LL	11-3/4 R 12	3	58100-95393-019	032043										
14-16' - LL	11-1/2 R 13	3	58100-94313-019	032042			10-1/2 x 13	3	033095		10-1/8 x 13	3	395929	
13-15' - LL	10-1/4 R 14	3			58100-94401	▶113002	10-1/2 x 14	3	033096					
12-14' - LL	11-1/4 R 14	3	58100-95353-019	032041										
12-14' - LL	11 R 15	3	58100-95363-019	032040			10-1/2 x 15	3	033097		10-1/8 x 15	3	395930	
12-14' - LL	10-3/4 R 16	3	58100-95373-019	032039										

### 90-115 HORSEPOWER (4-STROKE)

DF 90 (4-Stroke) .....2001 & Newer                      DF 115 (4-Stroke) .....2001 & Newer                      DF140 (4-Stroke) .....2002 & Newer

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
25' - AL	14 R 11	3		101036										
22' - AL	13-5/8 R 13	3		101031										
20-24' - AL, SK	13-1/2 R 15	3		101032										
20-24' - AL, SK	13-3/4 R 15	3			688-45978-60-98	103025	13-1/4 x 15	3	▶103056		13-5/8 x 15	3	335930	
17-19' - AL, SK	13-1/4 R 17	3	58100-90J00-019	101033	688-45930-02-98	103026	13-1/4 x 17	3	▶103057		13-1/2 x 17	3	335931	
16-18' - AL, SK	13 R 19	3	58100-90J10-019	101034	688-45970-03-9	103027	13-1/4 x 19	3	▶103058		13-3/8 x 19	3	335932	
15-18' - AL, SK	12-5/8 R 21	3	58100-90J20-019	101035			13-1/4 x 21	3	▶103059		13-1/8 x 21	3	335933	
High Performance									Ballistic 3 XL		13-1/2 x 22	3	335934	
High Performance									Ballistic 3 XL		13-1/2 x 24	3	335935	

### 60-140 HORSEPOWER

DF 60, 70 + (4-Stroke) .....1998 & Newer                      DT 85 ++ .....1992 & Newer                      DT 100 + .....1989 & Newer  
 DT 75 ++ .....1992-97                      DT 85 # .....1979-91                      DT 115, 140 ++ .....1992 & Newer  
 DT 75 # .....1983-91                      DT 90 + .....1989-97                      DT 115, 140 # .....1981-91

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
17-19' - AL, SK	13-3/4 R 15	3	58100-95500-019	★061001	99105-00100-16P	▶063001	13-1/4 x 15	3	▶063042		13-5/8 x 15	3	335530	
15-18' - AL, SK	13-1/4 R 17	3	58100-95511-01	★061002	99105-00100-18P	▶063002	13-1/4 x 17	3	▶063043		13-1/2 x 17	3	335531	
14-16' - AL, SK	13 R 19	3	58100-95521-019	★061003	99105-00101-20P	▶063003	13-1/4 x 19	3	▶063044		13-3/8 x 19	3	335532	
14-16' - LL	13 R 21	3	58100-95530-019	★061004			13-1/4 x 21	3	▶063045		13-1/8 x 21	3	335533	
High Performance									Ballistic 3 XL		13-1/2 x 22	3	335534	
High Performance									Ballistic 3 XL		13-1/2 x 24	3	335535	

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

★ New Cupped Version

▶ LIMITED INVENTORY ITEMS.

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

# Requires stopper 57635-95503, Spacer 57633-95501, Lock Washer 09160-18028 (supplied with Engine)

+ Use stopper 57632-87E10, Spacer 57633-95501, Washer 09160-18028

++ Use stopper 57635-95510, Spacer 57633-95501, Washer 09160-18028

# OUTBOARDS APPLICATIONS



## SUZUKI

### 150-225 HORSEPOWER

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

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
17-19' - AL, SK							14-1/4 x 15	3	▶★063030	▶★063031	14-7/8 x 15	3	345531	
15-18' - AL, SK							14-1/4 x 17	3	▶★063032	▶★063033	14-3/4 x 17	3	345532	345562
14-16' - AL, SK							14-1/4 x 19	3	▶★063034	▶★063035	14-1/2 x 19	3	345533	345563
14-16' - LL							14-1/4 x 21	3	▶★063036	▶★063037	14-3/8 x 21	3	345534	345564
12-14' - LL							14-1/4 x 23	3	▶★063038	▶★063039	14-1/4 x 23	3	345535	345565
12-14' - LL							14-1/4 x 25	3	▶★063040	▶★063041	14-1/4 x 25	3	345536	
High Performance										Ballistic 3 XL	14-1/2 x 22	3	345541	
High Performance										Ballistic 3 XL	14-1/2 x 24	3	345537	
High Performance										Ballistic 3 XL	14-1/2 x 26	3	345538	

### High Performance 4 Blade Propellers

High Performance										Ballistic 4 XL	13-3/4 x 23	4	435535	
High Performance										Ballistic 4 XL	13-3/4 x 25	4	435536	
High Performance										Ballistic 4 XL	13-3/4 x 27	4	435537	

## YAMAHA

### 6-8 HORSEPOWER

6 HP .....1986 & Newer      8 HP .....1986 & Newer

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
General Usage	8-1/2	R 6-1/2	3	6G1-45947-00-EL	102001									
General Usage	8-1/2	R 7-1/2	3	6G1-45943-00-EL	102002									

### 8 HORSEPOWER

8 HP .....1976-83

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
14-16' - AL	8-1/4	R 8	3		012008									
14-16' - LL	8-1/4	R 9	3		012101									

### 9.9-15 HORSEPOWER

9.9 HP .....1984 & Newer      15 HP .....1984 & Newer

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
13-17' - HL	9-1/4	R 8	3	683-45947-00-EL	102003									
12-15' - AL	9-1/4	R 9	3	683-45945-00-EL	102004									
12-15' - AL	9-1/4	R 10-1/2	3	683-45943-00-EL	102005									

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, Trim Tab 55125-87D10 must replace standard trim tab. Use stopper A9500-109 supplied with propeller.

▶ LIMITED INVENTORY ITEMS.



# OUTBOARDS APPLICATIONS



## YAMAHA

### 15-28 HORSEPOWER

15 A & W15 HP .....1976-83                      25 HP 2 Cyl. ....1977-79                      28 HP .....1976-78  
 20 HP .....1976-78  
 (PIN DRIVE)

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
HB, SB	9-1/4	R 7 3	650-45943-01-36	012102										
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										
12-14' - LL	9-1/4	R 12 3		012010										

### 20-30 HORSEPOWER

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

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
16-18' - AL, SK	9-7/8	R 9 3	664-45941-01-EL	022001										
16-18' - AL, SK	9-7/8	R 9 3		★021001										
14-17' - AL, SK	9-7/8	R 10-1/2 3	664-45945-00-EL	022002										
13-16' - LL	9-3/8	R 12 3	664-45954-00-EL	022003										
14-17' - General Use											10-1/8 x 13	3	305929	
13-15' - General Use											10-1/8 x 15	3	305930	

### 40-60 HORSEPOWER

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

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
19-22' - LL	12-1/8	R 9 3	663-45956-01-EL	102016										
19-22' - LL	12-1/4	R 10 3		032045			10-1/2 x 10	3	033093					
19-22' - LL	12-1/4	R 10 3		★031072										
17-19' - AL, SK	12	R 11 3	663-45947-02-EL	032044										
17-19' - AL, SK	12	R 11 3		★031073										
15-18' - AL, SK	10-5/8	R 12 3			663-45972-60-98	▶113001	10-1/2 x 12	3	033094					
16-17' - AL, SK	11-3/4	R 12 3	6H5-45952-00-EL	032043										
14-16' - AL, SK	11-1/2	R 13 3	6H5-45945-00-EL	032042			10-1/2 x 13	3	033095		10-1/8 x 13	3	395929	
13-15' - LL	10-1/4	R 14 3			663-45930-00-98	▶113002	10-1/2 x 14	3	033096					
12-14' - LL	11-1/4	R 14 3	663-45958-01-EL	032041										
12-14' - LL	11	R 15 3	6H5-45943-00-EL	032040			10-1/2 x 15	3	033097		10-1/8 x 15	3	395930	
12-14' - LL	10-3/4	R 16 3	663-45949-01-EL	032039										

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

★ New Cupped Version

▶ LIMITED INVENTORY ITEMS.

Standard Hub Motor Application

# OUTBOARDS APPLICATIONS



## YAMAHA

### 50-130 HORSEPOWER

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

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
25' - AL	14 R 11	3		6E5-45954-00-EL	101036										
22' - AL	13-5/8 R 13	3		6E5-45949-00-EL	101031										
20-24' - AL, SK	13-1/2 R 15	3		6E5-45947-00-EL	101032										
20-24' - AL, SK	13-3/4 R 15	3				688-45978-60-98	103025	13-1/4 x 15	3	▶103056		13-5/8 x 15	3	335930	
17-19' - AL, SK	13-1/4 R 17	3		6E5-45945-01-EL	101033	688-45930-02-98	103026	13-1/4 x 17	3	▶103057		13-1/2 x 17	3	335931	
16-18' - AL, SK	13 R 19	3		6E5-45941-00-EL	101034	688-45970-03-98	103027	13-1/4 x 19	3	▶103058		13-3/8 x 19	3	335932	
15-18' - AL, SK	12-5/8 R 21	3		6E5-45943-00-EL	101035			13-1/4 x 21	3	▶103059		13-1/8 x 21	3	335933	
High Performance										Ballistic 3 XL		13-1/2 x 22	3	335934	
High Performance										Ballistic 3 XL		13-1/2 x 24	3	335935	

### 80-140 HORSEPOWER

80, 90, 115 HP .....1978-83	80 HP .....1977 See Mercury section on page 42 for available propellers.
140 HP .....1978-79	

Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
25' and Up - AL	14 R 11	3			031054										
22' and Up - AL	14 R 13	3			031055										
20-24' - AL, SK	13-3/4 R 15	3			031041		033016	13-1/4 x 15	3	▶033084		13-5/8 x 15	3	335130	
17-19' - AL, SK	13-1/4 R 17	3			031042		033017	13-1/4 x 17	3	▶033085		13-1/2 x 17	3	335131	
16-18' - AL, SK	13 R 19	3			031043		033018	13-1/4 x 19	3	▶033086		13-3/8 x 19	3	335132	
15-18' - AL, SK	12-3/4 R 21	3			031044		033019	13-1/4 x 21	3	▶033087		13-1/8 x 21	3	335133	
14-16' - AL, SK	12-1/2 R 23	3			031045										
High Performance										Ballistic 3 XL		13-1/2 x 22	3	335134	
High Performance										Ballistic 3 XL		13-1/2 x 24	3	335135	

### 150-175 HORSEPOWER

150 HP .....1979-83	175 HP .....1978-79	175 HP (DI & VMAX) .....2001
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Boat Length/Description	Diameter			Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#		OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
CR, HB	16 R 11	3			031021										
CR, HB	16 R 13	3			031022										
20-24' - AL, SK	15-1/4 R 15	3			031023										
20-22' - AL, SK	14-1/2 R 15	3					033002	14-1/4 x 15	3	▶033072 ▶033073		14-7/8 x 15	3	345131	
19-21' - AL, SK	14-1/2 R 17	3			031024		033003	14-1/4 x 17	3	▶033074 ▶033075		14-3/4 x 17	3	345132	345162
18-20' - AL, SK	14 R 19	3			031025		033004	14-1/4 x 19	3	▶033076 ▶033077		14-1/2 x 19	3	345133	345163
18-19' - AL, SK	13-3/4 R 21	3			031026		033005	14-1/4 x 21	3	▶033078 ▶033079		14-3/8 x 21	3	345134	345164
17-19' - AL, SK	13-1/2 R 23	3			031027		033006	14-1/4 x 23	3	▶033080 ▶033081		14-1/4 x 23	3	345135	345165
17-18' - AL, SK	13-3/8 R 25				031067			14-1/4 x 25	3	▶033082 ▶033083		14-1/4 x 25	3	345136	

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

▶ LIMITED INVENTORY ITEMS.



## YAMAHA

### 150-250 HORSEPOWER

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

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless				Ballistic High Performance Stainless			
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
20-22' - AL, SK	15-1/4 R 15	3	6G5-45941-00-98	101025			14-1/4 x 15	3	▶103044	▶103045	14-7/8 x 15	3	345931	
20-21' - AL, SK	14-5/8 R 16	3	6G5-45952-00-98	101026										
19-21' - AL, SK	14-1/2 R 17	3	6G5-45947-01-98	101027	6G5-45978-03-98	▶103018	14-1/4 x 17	3	▶103046	▶103047	14-3/4 x 17	3	345932	345962
18-20' - AL, SK	14 R 19	3	6G5-45945-01-98	101028	6G5-45974-03-98	▶103020	14-1/4 x 19	3	▶103048	▶103049	14-1/2 x 19	3	345933	345963
18-20' - AL, SK	13-3/4 R 21	3	6H5-45943-01-98	101029	6G5-45972-02-98	▶103022	14-1/4 x 21	3	▶103050	▶103051	14-3/8 x 21	3	345934	345964
18-19' - AL, SK	13-1/2 R 23	3	6G5-45949-00-98	101030			14-1/4 x 23	3	▶103052	▶103053	14-1/4 x 23	3	345935	345965
Up to 18' - AL, SK							14-1/4 x 25	3	▶103054	▶103055	14-1/4 x 25	3	345936	
High Performance											Ballistic 3 XL	14-1/2 x 22	3	345941
High Performance											Ballistic 3 XL	14-1/2 x 24	3	345937
High Performance											Ballistic 3 XL	14-1/2 x 26	3	345938

### High Performance 4 Blade Propellers

High Performance										Ballistic 4 XL	13-3/4 x 23	4	435935
High Performance										Ballistic 4 XL	13-3/4 x 25	4	435936
High Performance										Ballistic 4 XL	13-3/4 x 27	4	435937

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

▶ LIMITED INVENTORY ITEMS.

## GO BALLISTIC!

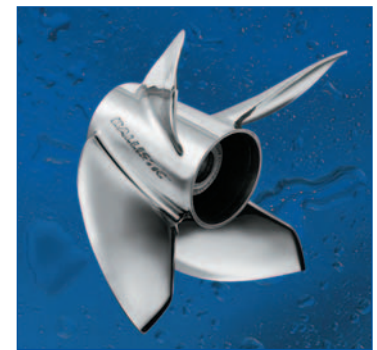
High Caliber Performance For Less!



### Power and Control for High Performance Boats

3-blade Ballistic-XL props provide peak top end speed for bass boats and high performance hulls. Advanced rake provides bow lift for reduced hull drag. Enhanced cup design reduces cavitation when the engine is trimmed high for extra bow lift. This combination of rake and cup yields incredible efficiency and speed.

4-blade Ballistic-XL props have the same combination of advanced rake and enhanced cup for less drag and higher efficiency. In addition, the 4-blade XL props deliver better "hole shot" for faster planing. They also produce less steering torque and vibration at higher speeds.



**BALLISTIC™**  
HIGH PERFORMANCE STAINLESS STEEL PROPS

# STERNDRIVE APPLICATIONS



## MERCruiser™

### MERCruiser™ • ALPHA ONE™ • 110-190 HP

(SEE FOOTNOTES ■ & ▼)

Models 1A, 1B, 1C, 120, 140, 145 DTS & 165  
Models 228, 470, 485, 888, 898 . . .

120-190 HP MerCruiser™ . . . . .1983-85  
2.5 L (120 HP) Alpha One™ . . . . .1986-89

3.0 L (125-140 HP) Alpha One™ . . . . .1986 & Newer  
3.7 L (165-190 HP) Alpha One™ . . . . .1986-89

Boat Length - (MPH)	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
Non-Plane Heavy CR	16	R 11	3	48-78112A40	031021									
Non-Plane Heavy CR	16	R 12	3	48-16436A40	031063									
Non-Plane Heavy CR	16	R 13	3	48-78114A40	031022									
21-26' - (17-28)	16	R 14	3	48-16438A40	031050									
21-26' - (18-31)	15-1/4	R 15	3	48-78116A40	031023									
21-26' - (18-31)	14-1/2	R 15	3			48-16312A4	033002	14-1/4 x 15	3	▶▶033072	▶▶033073	14-7/8 x 15	3	345131
19-23' - (26-34)	16	R 16	3	48-16440A40	031051									
19-23' - (27-37)	14-1/2	R 17	3	48-78118A40	031024	48-16314A4	033003	14-1/4 x 17	3	▶▶033074	▶▶033075	14-3/4 X 17	3	345132 345162
19-23' - (27-37)	15	R 17	3	48-832828A45	●031064									
17-21' - (32-39)	15-1/2	R 18	3	48-11324A45	031052									
17-21' - (33-42)	14	R 19	3	48-78120A40	031025	48-16316A4	033004	14-1/4 x 19	3	▶▶033076	▶▶033077	14-1/2 x 19	3	345133 345163
17-21' - (33-42)	14-1/2	R 19	3	48-832830A45	●031065									
Up to 19' - (37-46)	13-3/4	R 21	3	48-78122A40	031026	48-16318A4	033005	14-1/4 x 21	3	▶▶033078	▶▶033079	14-3/8 x 21	3	345134 345164
Up to 19' - (37-46)	14-1/4	R 21	3	48-832832A45	●031066									
Up to 18' - (40-50)	13-1/2	R 23	3	48-78124A40	031027	48-16320A4	033006	14-1/4 x 23	3	▶▶033080	▶▶033081	14-1/4 x 23	3	345135 345165
Up to 18' - (40-50)	14	R 23	3	48-832834A45	●031068									
Up to 18' - (43-55)	13-3/8	R 25	3	48-78126A40	031067			14-1/4 x 25	3	▶▶033082	▶▶033083	14-1/4 x 25	3	345136
16-19' High Perf.	Lifting Hulls									Ballistic 3 XL		14-1/2 x 22	3	345141
15-18' High Perf.	Lifting Hulls									Ballistic 3 XL		14-1/2 x 24	3	345137
Up to 17' High Perf.	Lifting Hulls									Ballistic 3 XL		14-1/2 x 26	3	345138

### MERCruiser™ • ALPHA ONE™ • BRAVO ONE™ • 200-320 HP

(SEE FOOTNOTES ■ & ▼)

Models 228, 898, 225S, 233, 255TRS, 260  
Models 280TRS, 330TRS . . . . .  
200-260 HP MerCruiser™ . . . . .1983-85  
4.3 L (155-210 HP) Alpha One™ . . . . .1986 & Newer

5.0 L (180-240 HP) Alpha One™ . . . . .1986 & Newer  
5.7 L (210-260 HP) Alpha One™ . . . . .1986 & Newer  
262 Magnum (205 HP) Alpha One™ .1997 & Newer  
350 Magnum (240-300 HP) . . . . .1987 & Newer

6.2 MPI (320 HP) Alpha One™ . . . . .2001  
5.0 L (220-240 HP) Bravo One™ . . . . .1998 & Newer  
5.7 L (210-280 HP) Bravo One™ . . . . .1995 & Newer  
350 Magnum (300 HP) Bravo One™ .1996 & Newer

Boat Length - (MPH)	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
Non-Plane Heavy CR	16	R 11	3	48-78112A40	031021									
Non-Plane Heavy CR	16	R 12	3	48-16436A40	031063									
HB - (18-26)	16	R 13	3	48-78114A40	031022									
23-27' - (18-31)	16	R 14	3	48-16438A40	031050									
23-28' - (19-38)	15-1/4	R 15	3	48-78116A40	031023									
23-28' - (19-38)	14-1/2	R 15	3			48-16312A4	033002	14-1/4 x 15	3	▶▶033072	▶▶033073	14-7/8 x 15	3	345131
22-26' - (26-35)	16	R 16	3	48-16440A40	031051									
21-26' - (29-45)	14-1/2	R 17	3	48-78118A40	031024	48-16314A4	033003	14-1/4 x 17	3	▶▶033074	▶▶033075	14-3/4 x 17	3	345132 345162
21-26' - (29-45)	15	R 17	3	48-832828A45	●031064									
21-25' - (34-42)	15-1/2	R 18	3	48-11324A45	031052									
19-25' - (35-49)	14	R 19	3	48-78120A40	031025	48-16316A4	033004	14-1/4 x 19	3	▶▶033076	▶▶033077	14-1/2 x 19	3	345133 345163
19-25' - (35-49)	14-1/2	R 19	3	48-832830A45	●031065									
17-23' - (41-56)	13-3/4	R 21	3	48-78122A40	031026	48-16318A4	033005	14-1/4 x 21	3	▶▶033078	▶▶033079	14-3/8 x 21	3	345134 345164
17-23' - (41-56)	14-1/4	R 21	3	48-832832A45	●031066									
Up to 20' - (47-62)	13-1/2	R 23	3	48-78124A40	031027	48-16320A4	033006	14-1/4 x 23	3	▶▶033080	▶▶033081	14-1/4 x 23	3	345135 345165
Up to 20' - (47-62)	14	R 23	3	48-832834A45	●031068									
Up to 18' - (47-65)	13-3/8	R 25	3	48-78126A40	031067			14-1/4 x 25	3	▶▶033082	▶▶033083			
High Performance	Lifting Hull									Ballistic 3 XL		14-1/2 X 22	3	345141
High Performance	Lifting Hull									Ballistic 3 XL		14-1/2 X 24	3	345137
High Performance	Lifting Hull									Ballistic 3 XL		14-1/2 X 26	3	345138

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

■ When replacing Flo-Torq II™ plastic hub props, aft castle thrust washer 12-31211A2 and conductivity (star) washer 13-42351-1 are required in addition to the other hardware supplied with original propeller.

For complete details, see page 34. All suggestions are based upon single engine boats. Add 4° of pitch for twin applications.

▼ Caution: Use standard trim tab 34127A1 (except for Rapture™ use 822777A1) and forward thrust washer 13191A1.

● Larger blade area design used primarily on 1997 and newer applications.

⚡ When using Rapture™ and Ballistic™ propellers, to avoid damage or injury, replace standard trim tab with trim tab 822777A1 and use forward thrust washer 12-835467.

▶ LIMITED INVENTORY ITEMS.

# STERNDRIVE APPLICATIONS



## MERCURISER™

### ALPHA ONE™ 1987 & NEWER • 365 HP & LOWER (RUBBER HUB) (SEE FOOTNOTES ■ & ▼)

5.0 L (250 HP) . . . . .1988 & Newer	454 Magnum (330 HP) . . . . .1987	D 3.6 L (Diesel) . . . . .1990 & Newer
5.7 L (250-260 HP) . . . . .1995 & Newer	D 2.8 L (Diesel) . . . . .1997 & Newer	D 3.0 L (Diesel) . . . . .1990-96
320 EFI (320 HP) . . . . .1987-89	D 4.2 L (Diesel) . . . . .1990 & Newer	D 7.3 L (Diesel) . . . . .1998 & Newer
350 Magnum (240-280 HP) . . . . .1987 & Newer		

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
23-28' - AL							14-1/4 x 15	3	▶●033072		14-7/8 x 15	3	●345131	
23-28' - AL							14-1/4 x 15	3		▶●033073				
21-26' - AL, SK							14-1/4 x 17	3	▶●033074		14-3/4 x 17	3	●345132	
21-26' - AL, SK							14-1/4 x 17	3		▶●033075	14-3/4 x 17	3		●345162
22-25' - AL, SK	15-1/4 R 19	3			48-13700A41	▶●033030	14-1/4 x 19	3	▶●033076		14-1/2 x 19	3	●345133	
22-25' - AL, SK	15-1/4 L 19	3			48-13701A41	▶●033029	14-1/4 x 19	3		▶●033077	14-1/2 x 19	3		●345163
21-23' - AL, SK	14-3/4 R 21	3			48-13702A41	▶●033032	14-1/4 x 21	3	▶●033078		14-3/8 x 21	3	●345134	
21-23' - AL, SK	14-3/4 L 21	3			48-13703A41	▶●033031	14-1/4 x 21	3		▶●033079	14-3/8 x 21	3		●345164
Up to 22' - AL, SK	14-5/8 R 23	3			48-13704A41	▶●033034	14-1/4 x 23	3	▶●033080		14-1/4 x 23	3	●345135	
Up to 22' - AL, SK	14-5/8 L 23	3			48-13705A41	▶●033033	14-1/4 x 23	3		▶●033081	14-1/4 x 23	3		●345165
Up to 20' - AL, SK	14-1/2 R 25	3			48-13706A41	▶●033036	14-1/4 x 25	3	▶●033082		14-1/4 x 25	3	●345136	
Up to 20' - AL, SK	14-1/2 L 25	3			48-13707A41	▶●033035	14-1/4 x 25	3		▶●033083				

### BRAVO ONE™ • 1988 & NEWER • 365 HP & LOWER (RUBBER HUB) (SEE FOOTNOTES ■ & ▼)

5.7 L (250-280 HP) . . . . .1995 & Newer	350 Magnum (300 HP) . . . . .1996 & Newer	7.4 L (300-330 HP) . . . . .1988 & Newer
320 EFI (320 HP) . . . . .1988-89	454 Magnum (350-365 HP) . . . . .1988 & Newer	

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
23-28' - AL							14-1/4 x 15	3	▶●033072		14-7/8 x 15	3	345131	
23-28' - AL							14-1/4 x 15	3		▶●033073				
21-26' - AL, SK							14-1/4 x 17	3	▶●033074		14-3/4 x 17	3	345132	
21-26' - AL, SK							14-1/4 x 17	3		▶●033075	14-3/4 x 17	3		345162
25-30' - AL, SK	15-1/4 R 19	3			48-13700A41	▶●033030	14-1/4 x 19	3	▶●033076		14-1/2 x 19	3	345133	
25-30' - AL, SK	15-1/4 L 19	3			48-13701A41	▶●033029	14-1/4 x 19	3		▶●033077	14-1/2 x 19	3		345163
23-27' - AL, SK	14-3/4 R 21	3			48-13702A41	▶●033032	14-1/4 x 21	3	▶●033078		14-3/8 x 21	3	345134	
23-27' - AL, SK	14-3/4 L 21	3			48-13703A41	▶●033031	14-1/4 x 21	3		▶●033079	14-3/8 x 21	3		345164
22-25' - AL, SK	14-5/8 R 23	3			48-13704A41	▶●033034	14-1/4 x 23	3	▶●033080		14-1/4 x 23	3	345135	
22-25' - AL, SK	14-5/8 L 23	3			48-13705A41	▶●033033	14-1/4 x 23	3		▶●033081	14-1/4 x 23	3		345165
21-24' - AL, SK	14-1/2 R 25	3			48-13706A41	▶●033036	14-1/4 x 25	3	▶●033082		14-1/4 x 25	3	345136	
21-24' - AL, SK	14-1/2 L 25	3			48-13707A41	▶●033035	14-1/4 x 25	3		▶●033083				

### BRAVO ONE™ • OVER 365 HP (SOLID HUB) (SEE FOOTNOTES ■ & ▼)

454 Magnum (385 HP) . . . . .1995 & Newer	450 HP . . . . .1995	500 HP . . . . .1993 & Newer
502 Magnum (390-415 HP) . . . . .1990 & Newer	465 HP . . . . .1991-94	525 HP (SC) (490-500) . . . . .1992 & Newer

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
26-32'	15-1/4 R 19	3			48-13242A50	▶●033052								
24-30'	14-3/4 R 21	3			48-13244A50	▶●033054								
24-30'	14-3/4 L 21	3			48-13243A50	▶●033053								
23-28'	14-5/8 R 23	3			48-13246A50	▶●033056								
23-28'	14-5/8 L 23	3			48-13245A50	▶●033055								
21-26'	14-1/2 R 25	3			48-13248A50	▶●033058								
21-26'	14-1/2 L 25	3			48-13247A50	▶●033057								

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

- When replacing Flo-Torq II™ plastic hub props, aft castle thrust washer 12-31211A2 and conductivity (star) washer 13-42351-1 are required in addition to the other hardware supplied with original propeller. For complete details, see page 34. All suggestions are based upon single engine boats. Add 4" of pitch for twin applications.
- ▶ LIMITED INVENTORY ITEMS.
- ▼ Wave Propellers used on Alpha One™ drives require use of anodic plate 76214A5 or high performance trim tab 822777A1 in place of standard trim tab.
- Solid Hub Wave Propellers include forward thrust washer 9500-120 and should be used in place of the existing one.
- ⌘ When using Rapture™ and Ballistic™ propellers, to avoid damage or injury, replace standard trim tab with trim tab 822777A1 and use forward thrust washer 12-835467.

# STERNDRIVE APPLICATIONS



## MERCruiser™

### MERCruiser - MODEL O

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

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
HB, Barges	10-1/4 R 10	3	48-33774A1	032084										
22-35'	10-1/4 R 11	3	48-38098A1	032085										
28-21'	10-1/4 R 12	3	48-38094A1	032086										
Up to 17'	10-1/4 R 13	3	48-38090A1	032087										

### MERCruiser I ('62 - '63) • MERCruiser 80, 90

HP Range: 80-140 HP  
For twin installation increase pitch 2".

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
HB, Barges	13 R 11	3	48-35936A3	032089										
22-25'	13 R 13	3	48-58826A3	032090										
20-23'	13 R 15	3	48-32390A3	032091										
19-22'	13 R 17	3	48-65022A1	032092										
18-21'	13 R 19	3	48-65024A1	032093										
Up to 17'	13 R 21	3	48-67280A1	032094										

### MERCruiser THRU 1982 • 110-330 HORSEPOWER

(SEE FOOTNOTES ■)

Models 1A, 1B, 1C, 120, 140, 145 DTS & 165  
Models 228, 470, 485,888, 898,225S, 233, 255TRS, 260, 280TRS, & 330TRS

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
24' & Up	16 R 13	3	48-36020A4	◆031034										
22-26' - AL	16 R 15	3	48-79570A4	◆031035			14-1/4 x 15	3	◆033072	◆033073	14-7/8 x 15	3	▼345131	
21-25' - AL	15-3/4 R 17	3	48-79572A4	◆031036	▶033007		14-1/4 x 17	3	◆033074	◆033075	14-3/4 x 17	3	▼345132	▼345162
20-24' - AL	15-1/2 R 19	3	48-79574A4	◆031037	▶033008		14-1/4 x 19	3	◆033076	◆033077	14-1/2 x 19	3	▼345133	▼345163
19-23' - AL	15-1/4 R 21	3	48-79576A4	◆031038	▶033009		14-1/4 x 21	3	◆033078	◆033079	14-3/8 x 21	3	▼345134	▼345164
18-22' - AL	15 R 23	3	48-79578A4	◆031039			14-1/4 x 23	3	◆033080	◆033081	14-1/4 x 23	3	▼345135	▼345165
Up to 17' - AL							14-1/4 x 25	3	◆033082	◆033083	14-1/4 x 25	3	▼345136	

### MERCruiser (THRU 1990 ONLY)

MerCruiser II-TR, 215E & 215H, TR, Bravo Two  
For twin installation increase pitch 2".

Boat Length/Description	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
25-34'	20 R 17	3	48-77896A10	032113										
25-34'	20 L 17	3	48-77897A10	032114										
25-30'	19-3/4 R 19	3	48-77898A10	032115										
25-30'	19-3/4 L 19	3	48-77899A10	032116										
22-28'	19-1/2 R 21	3	48-77900A10	032117										
22-28'	19-1/2 L 21	3	48-77901A10	032118										

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

- When replacing Flo-Torq II™ plastic hub props, aft castle thrust washer 12-31211A2 and conductivity (star) washer 13-42351-1 are required in addition to the other hardware supplied with original propeller. For complete details, see page 34. All suggestions are based upon single engine boats. Add 4" of pitch for twin applications.
- ◆ Caution: Use standard trim tab 34127A1 (except for Rapture™ use 822777A1) and forward thrust washer 13191A1. **LIMITED INVENTORY ON THESE ITEMS.**
- ⚙ When using Rapture™ and Ballistic™ propellers, to avoid damage or injury, replace standard trim tab with trim tab 822777A1 and use forward thrust washer 12-835467.
- ▼ Caution: Use standard trim tab 34127A1 (except for Rapture™ use 822777A1) and forward thrust washer 13191A1.

# STERNDRIVE APPLICATIONS



## OMC - OUTBOARD MARINE

### MODEL 400, COBRA®

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

Boat Length - (MPH)	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
Workboats - (6-16)	14 R 11	3	382761	012047										
CR, HB - (14-26)	14 R 13	3	391668	011001										
19-22' - (24-37)	13-3/4 R 15	3	391198	011002	389949	013028	13-1/4 x 15	3	▶013076					
17-20' - (30-45)	13-1/4 R 17	3	391199	011003			13-1/4 x 17	3	▶013077		13-1/2 x 17	3	335031	
17-20' - (30-45)	13-3/8 R 17	3			389948	013030								
17-20' - (30-45)	14 R 17	3	176214	011024										
16-19' - (36-50)	13 R 19	3	390896	011004	389510	013033	13-1/4 x 19	3	▶013078		13-3/8 x 19	3	335032	
16-19' - (36-50)	14 R 19	3	176215	011025										
15-18' - (41-53)	12-3/4 R 21	3	389788	011005	389512	013034	13-1/4 x 21	3	▶013079		13-1/8 x 21	3	335033	
15-18' - (41-53)	14 R 21	3	176216	011026										

### MODEL 800, KING COBRA®, COBRA®

3.0 L .....1990-93	3.8 L .....1978-85	5.0 L .....1978-93
3.2 L (Diesel) .....1992-93	4.3 L .....1985-93	5.8 L (Cobra) .....1989-93
Includes H.O. & EFI Models .....	Use Thrust Washer 126870	
(15 SPLINE & THRU HUB EXHAUST)		

Boat Length - (MPH)	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
Non-Plane Heavy CR	15-1/2 R 10	3		011015										
Non-Plane Heavy CR	15-1/2 R 13	3	391536	011016										
22-26' - (22-32)	15-1/2 R 15	3	391535	011006										
19-24' - (28-35)	15 R 15	3			174926	013052	14-1/4 x 15	3	▶013064		14-7/8 x 15	3	345031	
19-24' - (28-35)	15 L 15	3			174927	013051	14-1/4 x 15	3	▶013065					
18-24' - (30-39)	15 R 17	3	391200	011007	391290	013044	14-1/4 x 17	3	▶013066		14-3/4 x 17	3	345032	
18-24' - (30-39)	15 L 17	3			431930	013043	14-1/4 x 17	3	▶013067		14-3/4 x 17	3	345062	
17-20' - (36-44)	14-1/2 R 19	3	391201	011008	389924	013046	14-1/4 x 19	3	▶013068		14-1/2 x 19	3	345033	
17-20' - (36-44)	14-1/2 L 19	3			390821	013045	14-1/4 x 19	3	▶013069		14-1/2 x 19	3	345063	
16-19' - (40-49)	14-1/4 R 21	3	391202	011009	389923	013048	14-1/4 x 21	3	▶013070		14-3/8 x 21	3	345034	
16-19' - (40-49)	14-1/4 L 21	3			390822	013047	14-1/4 x 21	3	▶013071		14-3/8 x 21	3	345064	
15-20' - (45-56)	14-1/4 R 23	3	391203	011010	389019	013050	14-1/4 x 23	3	▶013072		14-1/4 x 23	3	345035	
15-20' - (45-56)							14-1/4 x 23	3	▶013073					345065
High Perf. - (50-60)							14-1/4 x 25	3	▶013074		14-1/4 X 25	3	345036	
High Perf. - (50-60)							14-1/4 x 25	3	▶013075					
16-19' High Perf.	Lifting Hulls								Ballistic 3 XL		14-1/2 x 22	3	345041	
15-18' High Perf.	Lifting Hulls								Ballistic 3 XL		14-1/2 x 24	3	345037	

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

▶ LIMITED INVENTORY ITEMS.

# STERNDRIVE APPLICATIONS



## OMC - OUTBOARD MARINE

### MODEL 800, KING COBRA®, COBRA®

5.7 L .....1978-93                      7.4 L .....1990-93                      8.2 L .....1992-93  
 5.8 L (King Cobra) .....1992-94                      7.5 L .....1987-90  
 Includes H.O. & EFI Models .....                      Use Thrust Washer 126870  
 (15 SPLINE & THRU HUB EXHAUST)

Boat Length - (MPH)	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
Heavy CR - (25-32)	15-1/2 R 13	3	391536	011016										
22-28' - (30-27)	15-1/2 R 15	3	391535	011006										
19-26' - (33-39)	15 R 15	3			174926	013052	14-1/4 x 15	3	013064		14-7/8 x 15	3	345031	
19-26' - (33-39)	15 L 15	3			174927	013051	14-1/4 x 15	3	013065					
19-26' - (35-46)	15 R 17	3	391200	011007	391290	013044	14-1/4 x 17	3	013066		14-3/4 x 17	3	345032	
19-26' - (35-46)	15 L 17	3			431930	013043	14-1/4 x 17	3	013067		14-3/4 x 17	3		345062
18-24' - (40-52)	14-1/2 R 19	3	391201	011008	389924	013046	14-1/4 x 19	3	013068		14-1/2 x 19	3	345033	
18-24' - (40-52)	14-1/2 L 19	3			390821	013045	14-1/4 x 19	3	013069		14-1/2 x 19	3		345063
17-22' - (46-60)	14-1/4 R 21	3	391202	011009	389923	013048	14-1/4 x 21	3	013070		14-3/8 x 21	3	345034	
17-22' - (46-60)	14-1/4 L 21	3			390822	013047	14-1/4 x 21	3	013071		14-3/8 x 21	3		345064
High Perf. - (51-66)	14-1/4 R 23	3	391203	011010	389019	013050	14-1/4 x 23	3	013072		14-1/4 x 23	3	345035	
High Perf. - (51-66)							14-1/4 x 23	3	013073		14-1/4 x 23	3		345065
High Perf. - (55-66)							14-1/4 x 25	3	013074		14-1/4 x 25	3	345036	
High Perf. - (55-66)							14-1/4 x 25	3	013075					
High Performance									Ballistic 3 XL		14-1/2 x 22	3	345041	
High Performance									Ballistic 3 XL		14-1/2 x 24	3	345037	
High Performance									Ballistic 3 XL		14-1/2 x 26	3	345038	

### OMC SAILDRIVE® (PIN DRIVE)

Saildrive

Boat Length - (MPH)	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
	10-1/2 R 10	3	376738	012027										

### MODEL 14 LARGE GEARCASE 1967-77 (PIN DRIVE)

HP Range: 120 -245	14 R 11	3	382676	012089										
	14 R 12	3	382017	012090										
	14 R 14	3	381185	012091										
	14 R 16	3	381186	012092										
	14 R 18	3	381187	012093										
	14 R 20	3	383287	012094										

Suggestion: For twin installation increase pitch 2".

### 80-90 HP CYCLE SMALL GEARCASE 1968 (PIN DRIVE) • MARINE DRIVE SYSTEMS/RANGER

HP Range: 80-120	10-1/4 R 10	3	378040	012043										
	10 R 11	3	377978	012044										
	10 R 12	3	378039	012045										
	10 R 9-1/4	3	379260	◆012042										

Suggestion: For twin installation increase pitch 2".

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

◆ Small Hub Propeller - uses special nut part number 302001



# STERNDRIVE APPLICATIONS



## OMC - OUTBOARD MARINE

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

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

For twin installation increase pitch 2".

Boat Length - (MPH)	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
Barges, - HB - (1-18)	14 R 11	3	382761	012047										
26' and Up - (14-28)	14 R 13	3	391668	011001										
22-26' - (24-36)	13-3/4 R 15	3	391198	011002	389949	013028	13-1/4 x 15	3	▶013076		13-5/8 x 15	3	335030	
19-22' - (30-40)	13-1/4 R 17	3	391199	011003			13-1/4 x 17	3	▶013077		13-1/2 x 17	3	335031	
19-22' - (30-40)	13-3/8 R 17	3			389948	013030								
19-22' - (30-40)	14 R 17	3	176214	011024										
17-20' - (38-50)	13 R 19	3	390896	011004	389510	013033	13-1/4 x 19	3	▶013078		13-3/8 x 19	3	335032	
17-20' - (38-50)	14 R 19	3	176215	011025										
15-18' - (44-56)	12-3/4 R 21	3	389788	011005	389512	013034	13-1/4 x 21	3	▶013079		13-1/8 x 21	3	335033	
15-18' - (44-56)	14 R 21	3	176216	011026										

### SEA DRIVE® 1982 & NEWER • 4-3/4" LARGE GEARCASE

2.0 L V-4 .....1989 & Newer      2.7 L V-6 .....1987 & Newer      3.6 L V-8 .....1987 & Newer

2.5 L V-6 .....1982-87      3.0 L V-6 .....1989 & Newer      4.0 L V-8 .....1989 & Newer

2.6 L V-6 .....1982 & Newer

Following suggestions based on Twin Engines - Deduct 4" pitch for single engine application.

Boat Length - (MPH)	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Di. x Pitch	Blades	RH	LH	Di. x Pitch	Blades	RH	LH
Barges, HB - (10-25)	15-1/2 R 13	3	391536	011016										
32-36' Twin - (24-34)	15-1/2 R 15	3	391535	011006										
32-36' Twin - (27-36)	15 R 15	3			174926	013052	14-1/4 x 15	3	▶013064		14-7/8 x 15	3	345031	
32-36' Twin - (27-36)	15 L 15	3			174927	013051	14-1/4 x 15	3	▶013065					
30-33' Twin - (30-40)	15 R 17	3	391200	011007	391290	013044	14-1/4 x 17	3	▶013066		14-3/4 x 17	3	345032	
30-33' Twin - (30-40)	15 L 17	3			431930	013043	14-1/4 x 17	3	▶013067		14-3/4 x 17	3	345062	
27-30' Twin - (36-47)	14-1/2 R 19	3	391201	011008	389924	013046	14-1/4 x 19	3	▶013068		14-1/2 x 19	3	345033	
27-30' Twin - (36-47)	14-1/2 L 19	3			390821	013045	14-1/4 x 19	3	▶013069		14-1/2 x 19	3	345063	
25-28' Twin - (42-54)	14-1/4 R 21	3	391202	011009	389923	013048	14-1/4 x 21	3	▶013070		14-3/8 x 21	3	345034	
25-28' Twin - (42-54)	14-1/4 L 21	3			390822	013047	14-1/4 x 21	3	▶013071		14-3/8 x 21	3	345064	
23-25' Twin - (50-62)	14-1/4 R 23	3	391203	011010	389019	013050	14-1/4 x 23	3	▶013072		14-1/4 x 23	3	345035	
23-25' Twin - (50-62)	14-1/4 L 23	3					14-1/4 x 23	3	▶013073		14-1/4 x 23	3	345065	
18-22' Twin - (56-68)							14-1/4 x 25	3	▶013074	▶013075	14-1/4 x 25	3	345036	

### FOR OMC COBRA® (1994 & NEWER), SX COBRA™, VOLVO PENTA SX™ SEE PAGE

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

▶ LIMITED INVENTORY ITEMS.

# STERNDRIVE APPLICATIONS



## VOLVO PENTA

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

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



Volvo Long Hub Aluminum



Volvo Standard Hub Aluminum

#### Long Hub Propellers

Nearest Michigan Match™ OEM Equivalent (17 Spline)

Dia. x Pitch	Rot.	Blades	Aluminum Part Number		Stainless Steel Part Number	
			OEM	Michigan	OEM	Michigan
14 x 17	RH	3	854286-4	082002-1❖		084006
14 x 17	LH	3	854977-6	082001-1❖		
14 x 19	RH	3	854993-3	082004-1❖		084008
14 x 19	LH	3	854978-4	082003-1❖		
14 x 21	RH	3	851139-6	082010-1❖		
14 x 21	LH	3	854979-2	082009-1❖		
15 x 17	RH	3	854997-4	082012-1❖		
15 x 17	LH	3	854982-6	082011-1❖		
15 x 19	RH	3	854998-2	082014-1❖		
15 x 19	LH	3	854983-4	082013-1❖		
15 x 21	RH	3	854999-0	082016-1❖		
15 x 21	LH	3	854984-2	082015-1❖		
16 x 13	LH	3	854986-7	082089-1		
16 x 15	RH	3	872001-3	082090-1		
16 x 15	LH	3	854987-5	082091-1		
16 x 17	RH	3	872002-1	082092-1		
16 x 17	LH	3	854988-3	082093-1		
15-1/4 x 17	RH	3	SSV Series Stainless		852155-1v	083002❖
15-1/4 x 17	LH	3	SSV Series Stainless		852086-8v	083001❖
15 x 19	RH	3	SSV Series Stainless		852138-7v	083004❖
15 x 19	LH	3	SSV Series Stainless		852085-0v	083003❖
14-1/2 x 21	RH	3	SSV Series Stainless		852137-9v	083006❖
14-1/2 x 21	LH	3	SSV Series Stainless		852087-6v	083005❖



#### Standard Hub Propellers

Nearest Michigan Match™ OEM Equivalent (17 Spline)

Dia. x Pitch	Rot.	Blades	Aluminum Part Number	
			OEM	Michigan
14 x 15	RH	3	814631-8	082026-1
14 x 15	LH	3	814626-8	082025-1
14 x 17	RH	3	814632-6	082028-1
14 x 17	LH	3	814627-6	082027-1
14 x 19	RH	3	814633-4	082032-1
14 x 19	LH	3	814628-4	082031-1
14 x 21	RH	3	814634-2	082034
14 x 21	LH	3	814629-2	082033
15 x 13	LH	3	813316-7	082087-1
15 x 15	RH	3	814615-1	082060-1
15 x 15	LH	3	814611-0	082059-1
15 x 17	RH	3	814616-9	082030-1
15 x 17	LH	3	814612-8	082029-1
15 x 19	RH	3	—	082022
15 x 19	LH	3	—	082021
15 x 21	LH	3	—	082023

❖ Note: Bushings for above propellers suggested for max. 240 HP UNLESS marked with a ❖.  
**SSV Series:** 1) Designed for boats with power to weight ratios of 12:1 and below. 2) Boats must have power trim. 3) Anti-cavitation plate height 1" above boat bottom. 4) Blades cambered must run in ventilated condition. 5) Use 2" less pitch if current aluminum prop is cupped, 3" less if uncupped. Parts 083005 & 083006 will not fit a 270 outdrive.

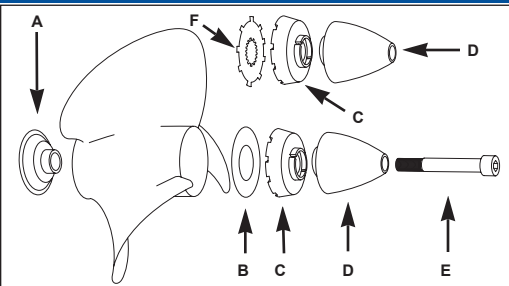
Long Hub Propellers are for use with model 275, 280 & 290 outdrives and late production 270 outdrives which have drilled propeller shaft.

Standard Hub Propeller installations are from outdrive serial #PZ2877179, and are NOT for use with V-6 diesel engines.

Propeller Hardware is available thru Volvo Distributors.

▶ LIMITED INVENTORY ITEMS.

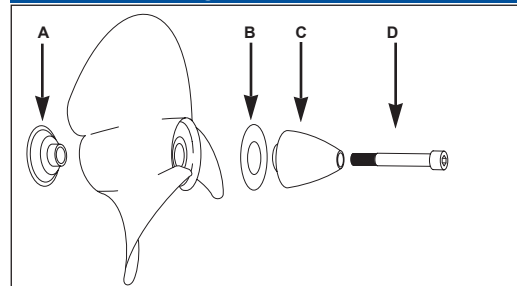
#### Standard Hub Installation



Standard Hub Propeller installations require:

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

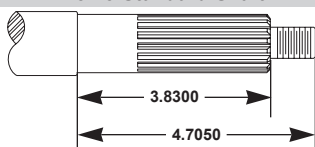
#### Long Hub Installation



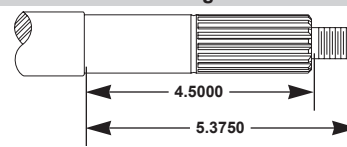
Long Hub Propeller Hardware:

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

#### Volvo Standard Shaft



#### Volvo Long Shaft



# STERNDRIVE APPLICATIONS



## VOLVO PENTA

### VOLVO PENTA 100-110: EATON MODEL B (PIN DRIVE)

Boat Length - (MPH)	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
HP Range: 110-150	14 L 10	3	813226	►082057										
	14 L 12	3	813228	►082045										

### SX COBRA™, VOLVO PENTA SX, OMC COBRA® (1994 & NEWER) - 19 SPLINE

3.0 L .....1994 & Newer	7.4 L .....1997 & Newer	DPX 385 (385 HP) .....2001 & Newer
4.3 L .....1994 & Newer	8.2 L .....1997	DPX 415 (415 HP) .....2001 & Newer
5.0 L .....1994 & Newer	8.1 GI (375 HP) .....2001 & Newer	DPX 500 (475 HP) .....2001 & Newer
5.7 L .....1994 & Newer	8.1 GSI (420 HP) .....2001 & Newer	DPX 600 (560 HP) .....2001 & Newer
5.8 L .....1994-97		

Following suggestions based on Twin Engines - Deduct 4" pitch for single engine application.

Boat Length - (MPH)	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
24-28' - (26-36)	15-1/2 R 15	3	3850299	161001										
24-28' - (26-36)	15 R 15	3			3850305	163002	14-1/4 x 15	3	►163012	►163013	14-7/8 x 15	3	346031	
22-27' - (34-44)	15 R 17	3	3850300	161002	3850307	163004	14-1/4 x 17	3	►163014		14-3/4 x 17	3	346032	
22-27' - (34-44)	15 L 17	3			3850316	163003	14-1/4 x 17	3		►163015				346062
19-25' - (39-50)	14-1/2 R 19	3	3850301	161003	3850308	163006	14-1/4 x 19	3	►163016		14-1/2 x 19	3	346033	
19-25' - (39-50)	14-1/2 L 19	3			3850317	163005	14-1/4 x 19	3		►163017				346063
17-22' - (39-50)	14-1/4 R 21	3	3850302	161004	3850309	163008	14-1/4 x 21	3	►163018		14-3/8 x 21	3	346034	
17-22' - (39-50)	14-1/4 L 21	3			3850318	163007	14-1/4 x 21	3		►163019				346064
17-20' - (44-57)	14-1/4 R 23	3	3850303	161005	3850310	163010	14-1/4 x 23	3	►163020		14-1/4 x 23	3	346035	
16-19' - (48-62)	14-1/4 R 23	3			3850319	163009	14-1/4 x 25	3	►163022	►163023	14-1/4 x 25	3	346036	

## YAMAHA

### 130-205 HORSEPOWER

3.0 L (130 HP) EST/PSR .....1989-93      4.3 L (205 HP) EST/YEMS/PRS ...1989-93

Boat Length - (MPH)	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
21-26' - (18-31)	15-1/4 R 15	3	6G5-45941-00-98	101025			14-1/4 x 15	3	►103044	►103045	14-7/8 x 15	3	345931	
20-24' - (25-34)	14-5/8 R 16	3	6G5-45952-00-98	101026										
19-23' - (27-37)	14-1/2 R 17	3	6G5-45947-01-98	101027	6G5-45978-03-98	103018	14-1/4 x 17	3	►103046	►103047	14-3/4 x 17	3	345932	345962
17-21' - (33-42)	14 R 19	3	6G5-45945-01-98	101028	6G5-45974-03-98	103020	14-1/4 x 19	3	►103048	►103049	14-1/2 x 19	3	345933	345963
18-19' - (37-46)	13-3/4 R 21	3	6G5-45943-01-98	101029	6G5-45972-03-98	103022	14-1/4 x 21	3	►103050	►103051	14-3/8 x 21	3	345934	345964
17-19' - (39-48)	13-1/2 R 23	3	6G5-45949-00-98	101030			14-1/4 x 23	3	►103052	►103053	14-1/4 x 23	3	345935	345965
Up to 18' - (40-50)							14-1/4 x 25	3	►103054	►103055	14-1/4 x 25	3	345936	
16-20' High Perf.	Lifting Hulls								Ballistic 3 XL		14-1/2 x 22	3	345941	
15-18' High Perf.	Lifting Hulls								Ballistic 3 XL		14-1/2 x 24	3	345937	
Up to 17' High Perf.	Lifting Hulls								Ballistic 3 XL		14-1/2 x 26	3	345938	

### 205-300 HORSEPOWER

5.0 L (205 HP) EST/PSR/YEMS ...1989-93      5.7 L (260 HP) EST/PSR/YEMS ...1989-93      7.4 L (300 HP) Hydra Drive (EST) ...1992-93

Boat Length - (MPH)	Diameter		Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
	Rot. & Pitch	Blade#	OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
23-28' - (19-38)	15-1/4 R 15	3	6G5-45941-00-98	101025			14-1/4 x 15	3	►103044	►103045	14-7/8 x 15	3	345931	
22-27' - (24-42)	14-5/8 R 16	3	6G5-45952-00-98	101026										
21-26' - (29-45)	14-1/2 R 17	3	6G5-45947-01-98	101027	6G5-45978-03-98	103018	14-1/4 x 17	3	►103046	►103047	14-3/4 x 17	3	345932	345962
19-25' - (35-49)	14 R 19	3	6G5-45945-01-98	101028	6G5-45974-03-98	103020	14-1/4 x 19	3	►103048	►103049	14-1/2 x 19	3	345933	345963
18-23' - (41-56)	13-3/4 R 21	3	6G5-45943-01-98	101029	6G5-45972-03-98	103022	14-1/4 x 21	3	►103050	►103051	14-3/8 x 21	3	345934	345964
17-22' - (43-58)	13-1/2 R 23	3	6G5-45949-00-98	01030			14-1/4 x 23	3	►103052	►103053	14-1/4 x 23	3	345935	345965
Up to 17' - (45-59)							14-1/4 x 25	3	►103054	►103055				

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

► LIMITED INVENTORY ITEMS.

# RAPTURE<sup>™</sup> XHS<sup>™</sup>



## NEW FOR 2003!

Michigan Wheel introduced the XHS<sup>™</sup> (Xchangeable Hub System) system in the 2002 season in the Vortex<sup>™</sup> aluminum propeller series. The response from the marine industry was overwhelmingly positive! We have decided to build on this successful system by offering the system in our Rapture<sup>™</sup> Stainless Steel Performance series propellers!

Watch for it in the 2003 season!

Look for XHS<sup>™</sup> to join the Ballistic<sup>™</sup> product line in the upcoming season.

**VORTEX™**  
**XHS**

**PERFORMANCE PROPELLERS**



**NEW FOR 2003!**

**VORTEX™ 4-BLADE PROPELLER**

## HOW TO USE THIS SECTION

- ◆ If you know your current propeller part number (OEM), then use the Part Number Cross Reference Charts on page 4 to locate the equivalent Vortex<sup>™</sup> propeller.
- ◆ If the Michigan Match<sup>™</sup> part number is known, use the Cross Reference Chart on page 5 to locate the equivalent Vortex<sup>™</sup> propeller.
- ◆ If an original part number is not known, use the following procedure for selecting a propeller.
  - ❶ Locate the brand of outboard or sterndrive using index below.
  - ❷ Locate the **Horsepower/Model** and **Year** that corresponds with the engine brand.
  - ❸ Select the propeller **Diameter & Pitch** that best meets your vessel and usage.  
(If unsure, reference Page 3 on how to properly size a propeller.)
  - ❹ Order the propeller using the **Vortex<sup>™</sup> Part Number**.
  - ❺ If needed, order the **XHS<sup>™</sup> hub kit** as indicated.  
Unless otherwise noted: The XHS<sup>™</sup> hub kit is sold separately from the propeller. See page 15 for XHS<sup>™</sup> hub kit and miscellaneous hardware information. Vortex<sup>™</sup> propellers fit existing Mercury® Flo-Torq II<sup>™</sup> hubs. Check existing hub for wear or damage and replace if necessary, with Michigan Wheel® XHS<sup>™</sup> Hub.

### ❶ HONDA

#### 75-90 HORSEPOWER

Propeller Series B (4-1/4" Gearcase)

#### ❷ ENGINES - MODEL & YEAR

75 HP .....1995-98  
90 HP .....1995-98

#### ❸ PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		H	LH	Diameter & Pitch	Blade#	RH	LH
13-3/4 x 15	3	992103		13-3/8 x 15	3	★993103	
13-1/4 x 17	3	992104		13-1/8 x 17	3	★993104	
13 x 19	3	992105		13 x 19	3	★993105	
12-3/4 x 21	3	992106		13 x 21	3	★993106	

❺ Use XHS<sup>™</sup> Hub Kit 102

★ Note: Use Gearcase adapter ring supplied with propeller.

XHS<sup>™</sup> Hub Propellers

EXAMPLE

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## HOW TO PROPERLY SIZE AN XHS™ PROPELLER

First locate your engine horsepower category then find the closest range of your boat length and use. Once this is located, read across to the right to determine the correct diameter and pitch for your application.

*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.*

<b>Propeller Series A</b>					
4-3/4" V6/V8 Outboard & I/O Gearcase					
Propeller Dia. x Pitch	Vortex™ Part #	Rapture Performance Dia. x Pitch	StainlessSteel RH	StainlessSteel LH	
15-1/4 x 15	<b>992002</b>	14-1/2 x 15	<b>993002</b>	<b>993012</b>	
15 x 17	<b>992003</b>	14-1/4 x 17	<b>993003</b>	<b>993013</b>	
14-1/2 x 19	<b>992004</b>	14-1/4 x 19	<b>993004</b>	<b>993014</b>	
14-1/4 x 21	<b>992005</b>	14-1/4 x 21	<b>993005</b>	<b>993015</b>	
14 x 23	<b>992006</b>	14-1/4 x 23	<b>993006</b>	<b>993016</b>	
		14-1/4 x 25	<b>993007</b>	<b>993017</b>	

<b>Propeller Series B</b>					
4-1/4" V4 Gearcase					
Propeller Dia. x Pitch	Vortex™ Part #	Rapture Performance Dia. x Pitch	StainlessSteel RH	StainlessSteel LH	
13-3/4 x 15	<b>992103</b>	13-3/8 x 15	<b>993103</b>		
13-1/4 x 17	<b>992104</b>	13-1/8 x 17	<b>993104</b>		
13 x 19	<b>992105</b>	13 x 19	<b>993105</b>		
12-3/4 x 21	<b>992106</b>	13 x 21	<b>993106</b>		

### 50-75HP with V4 (4-1/4") Gearcase (Propeller Series B)

Boat Description	Approx. Gross Wt.	Current MPH	Dia. x Pitch	Blades
16-18' Runabouts, Ski Boats	1600-2300	25-35	13-3/4" x 15"	3
15-17' Runabouts, Ski Boats	1400-2100	30-48	13-1/4" x 17"	3
14-16' Runabouts, Ski Boats	900-1500	36-46	13" x 19"	3
13-15' Runabouts, Ski Boats	800-1200	40-50	12-3/4" x 21"	3

### 80-140HP with V4 (4-1/4") Gearcase (Propeller Series B)

Boat Description	Approx. Gross Wt.	Current MPH	Dia. x Pitch	Blades
19-22' Runabouts, Ski Boats	2300-4000	24-36	13-3/4" x 15"	3
18-21' Runabouts, Ski Boats	2100-3600	30-42	13-1/4" x 17"	3
17-20' Runabouts, Ski Boats	1900-3100	38-50	13" x 19"	3
15-18' Runabouts, Ski Boats	1300-2300	44-56	12-3/4" x 21"	3

### 90-175HP with V6 (4-3/4") Gearcase (Propeller Series A)

Boat Description	Approx. Gross Wt.	Current MPH	Dia. x Pitch	Blades
22-26' Cruisers	2800-4700	24-36	15-1/4" x 15"	3
20-24' Runabouts	2200-4000	30-42	15" x 17"	3
18-22' Runabouts	1700-3300	36-49	14-1/2" x 19"	3
16-20' Runabouts	1400-2600	42-56	14-1/4" x 21"	3
15-19' High Performance	1200-2300	50-64	14" x 23"	3

### 200-300HP WITH V6 (4-3/4") Gearcase (Propeller Series A)

Boat Description	Approx. Gross Wt.	Current MPH	Dia. x Pitch	Blades
24-28' Cruisers	3000-5000	24-36	15-1/4" x 15"	3
22-26' Cruisers	2800-4700	30-42	15" x 17"	3
19-22' Runabouts	2200-4000	36-49	14-1/2" x 19"	3
17-20' Runabouts	1700-3300	42-56	14-1/4" x 21"	3
15-19' High Performance	1400-2600	50-64	14" x 23"	3

# OEM-XHS™ CROSS REFERENCE



Original Equipment Manufacturer Part# & Trade Mark	Michigan Wheel Corporation					Original Equipment Manufacturer Part# & Trade Mark	Michigan Wheel Corporation				
	Vortex Part#	Rapture Part#	XHS Kit Part #	Michigan Match	Catalog Page #		Vortex Part#	Rapture Part #	XHS Kit Part #	Michigan Match	Catalog Page #
<b>EVINRUDE, JOHNSON, OMC</b>						48-31456A 3	992105	993105	102	032093	71, 76
176214	992104	993104	106	011024	68	48-31456A 4	992105	993105	102	031003	71, 76
176215	992105	993105	106	011025	68	48-31458A 3	992104	993104	102	032092	71, 76
68176216	992106	993106	106	011026	68	48-31458A 4	992104	993104	102	031002	71, 76
382763	992103	993103	106	011002	68	48-32264A 3	992104	993104	102	032092	71, 76
382764	992104	993104	106	011003	68	48-32264A 4	992104	993104	102	031002	71, 76
382765	992105	993105	106	011004	68	48-32386A 3	992106	993106	102	032094	71, 76
382768	992106	993106	106	011005	68	48-32388A 3	992105	993105	102	032093	71, 76
384140	992106	993106	106	011005	68	48-32388A 4	992105	993105	102	031003	71, 76
3850299	992002	993002	105	161001	69	48-32390A 4	992103	993103	102	031001	71, 76
3850300	992003	993003	105	161002	69	48-32746A 3	992106	993106	102	032094	71, 76
3850301	992004	993004	105	161003	69	48-32746A 4	992106	993106	102	031004	71, 76
3850302	992005	993005	105	161004	69	48-32748A 3	992105	993105	102	032093	71, 76
387159	992002	993002	See Note 2	011006	69	48-32748A 4	992105	993105	102	031003	71, 76
387160	992003	993003	See Note 2	011007	69	48-32750A 3	992105	993105	102	032093	71, 76
387161	992004	993004	See Note 2	011008	69	48-32750A 4	992105	993105	102	031003	71, 76
387162	992005	993005	See Note 2	011009	69	48-36008A1	992006	993006	102	031039	71, 76
387163	992006	993006	See Note 2	011010	69	48-36010A1	992005	993005	102	031038	71, 76
389788	992106	993106	106	011005	68	48-36010A4	992006	993006	102	031039	71, 76
390896	992105	993105	106	011004	68	48-36012A1	992004	993004	102	031037	71, 76
391198	992103	993103	106	011002	68	48-36012A4	992005	993005	102	031038	71, 76
391199	992104	993104	106	011003	68	48-36012A5	992003	993003	102	031036	71, 76
391200	992003	993003	See Note 2	011007	69	48-36014A1	992003	993003	102	031036	71, 76
391201	992004	993004	See Note 2	011008	69	48-36014A4	992004	993004	102	031037	71, 76
391202	992005	993005	See Note 2	011009	69	48-36016A1	992002	993002	102	031035	71, 76
391203	992006	993006	See Note 2	011010	69	48-36016A4	992003	993003	102	031036	71, 76
391535	992002	993002	See Note 2	011006	69	48-36018A4	992002	993002	102	031035	71, 76
393160	992105	993105	106	011025	68	48-37902A 4	992105	993105	102	032093	71, 76
<b>FORCE, U.S. MARINE, CHRYSLER</b>						48-49632A 3	992105	993105	102	032093	71, 76
48-77342A40	992103	993103	See Note 3	031041	70	48-49632A 4	992106	993106	102	032094	71, 76
48-77342A45 Black Max™	992103	993103	See Note 3	031041	70	48-49634A1	992004	993004	102	031037	71, 76
48-77346A40	992105	993105	See Note 3	031043	70	48-49634A4	992004	993004	102	031037	71, 76
48-77348A40	992106	993106	See Note 3	031044	70	48-53892A 3	992106	993106	102	032094	71, 76
48-77348A45 Black Max™	992106	993106	See Note 3	031044	70	48-53892A 4	992106	993106	102	031004	71, 76
TA2034 Black Diamond	992103	993103	See Note 3	031041	70	48-53896A4	992105	993105	See Note 3	031043	71, 76
TA2038 Black Diamond	992105	993105	See Note 3	031043	70	48-53900A 3	992104	993104	102	032092	71, 76
TA2040 Black Diamond	992106	993106	See Note 3	031044	70	48-53900A 4	992104	993104	102	031002	71, 76
<b>HONDA</b>						48-58422A1	992003	993003	102	031036	71, 76
58130-ZW1-W21ZA	992103	993103	See Note 3	031041	70	48-58422A4	992004	993004	102	031037	71, 76
58130-ZW1-W31ZA	992104	993104	See Note 3	031042	70	48-58424A1	992004	993004	102	031037	71, 76
58130-ZW1-W41ZA	992106	993106	See Note 3	031044	70	48-58424A4	992005	993005	102	031038	71, 76
58130-ZW1-W61ZA	992105	993105	See Note 3	031043	70	48-58426A1	992005	993005	102	031038	71, 76
<b>MERCURY, MARINER, MERCURISER</b>						48-58426A4	992006	993006	102	031039	71, 76
48-11322A40	992003	993003	102	031051	71, 76	48-65022A 1	992104	993104	102	032092	71, 76
48-11324A40	992004	993004	102	031052	71, 76	48-65022A 4	992103	993103	102	031001	71, 76
48-11324A45 Black Max™	992004	993004	102	031052	71, 76	48-65024A 1	992105	993105	102	032093	71, 76
48-16440A40	992003	993003	102	031051	71, 76	48-65024A 4	992105	993105	102	031003	71, 76
48-16440A45 Black Max™	992003	993003	102	031051	71, 76	48-65480A1	992006	993006	102	031039	71, 76
48-29658A 4	992105	993105	102	031003	71, 76	48-65588A 1	992105	993105	102	032093	71, 76
48-30388A 1	992105	993105	102	032093	71, 76	48-65588A 4	992105	993105	102	032093	71, 76
48-30390A 1	992104	993104	102	032092	71, 76	48-65748A 1	992104	993104	102	032092	71, 76
48-31072A 4	992104	993104	102	032092	71, 76	48-65748A 4	992104	993104	102	031002	71, 76
48-31080A 1	992105	993105	102	032093	71, 76	48-65992A1	992005	993005	102	031038	71, 76
48-31082A 1	992104	993104	102	032092	71, 76	48-65992A4	992005	993005	102	031038	71, 76
48-31454A 3	992106	993106	102	032094	71, 76	48-66432A1	992003	993003	102	031036	71, 76
48-31454A 4	992106	993106	102	031004	71, 76	48-66432A4	992004	993004	102	031037	71, 76

VINETM High-Cross Reference





# MI MATCH-XHS™ CROSS REFERENCE



MI Match Part #	Vortex Part #	Rapture Part#	XHS Kit #	Series	Engine Application	Diameter	Pitch
011002	.992103	.993103	.106	V4	Evinrude/Johnson	13.75	.15
011003	.992104	.993104	.106	V4	Evinrude/Johnson	13.25	.17
011004	.992105	.993105	.106	V4	Evinrude/Johnson	13	.19
011005	.992106	.993106	.106	V4	Evinrude/Johnson	12.75	.21
011006	.992002	.993002	See Note 2	V6	Evinrude/Johnson	15.5	.15
011007	.992003	.993003	See Note 2	V6	Evinrude/Johnson	15	.17
011008	.992004	.993004	See Note 2	V6	Evinrude/Johnson	14.5	.19
011009	.992005	.993005	See Note 2	V6	Evinrude/Johnson	14.25	.21
011010	.992006	.993006	See Note 2	V6	Evinrude/Johnson	14.25	.23
011024	.992104	.993104	.106	V4	Evinrude/Johnson	14	.17
011025	.992105	.993105	.106	V4	Evinrude/Johnson	14	.19
011026	.992106	.993106	.106	V4	Evinrude/Johnson	14	.21
031001	.992103	.993103	.102	V4	Mercury (old)	13	.15
031002	.992104	.993104	.102	V4	Mercury (old)	13	.17
031003	.992105	.993105	.102	V4	Mercury (old)	13	.19
031004	.992106	.993106	.102	V4	Mercury (old)	13	.21
031023	.992002	.993002	.102	V6	Mercury/Mariner/Yamaha(old)	15.25	.15
031024	.992003	.993003	.102	V6	Mercury/Mariner/Yamaha(old)	14.5	.17
031025	.992004	.993004	.102	V6	Mercury/Mariner/Yamaha(old)	14	.19
031026	.992005	.993005	.102	V6	Mercury/Mariner/Yamaha(old)	13.75	.21
031027	.992006	.993006	.102	V6	Mercury/Mariner/Yamaha(old)	13.5	.23
031035	.992002	.993002	.102	I/O	Mercuriser thru 1982	16	.15
031036	.992003	.993003	.102	I/O	Mercuriser thru 1982	15.75	.17
031037	.992004	.993004	.102	I/O	Mercuriser thru 1982	15.5	.19
031038	.992005	.993005	.102	I/O	Mercuriser thru 1982	15.25	.21
031039	.992006	.993006	.102	I/O	Mercuriser thru 1982	15	.23
031041	.992103	.993103	See Note 3	V4	Mercury/Mariner/Force/Yamaha (old)/Honda	13.75	.15
031042	.992104	.993104	See Note 3	V4	Mercury/Mariner/Force/Yamaha (old)/Honda	13.25	.17
031043	.992105	.993105	See Note 3	V4	Mercury/Mariner/Force/	13	.19
031044	.992106	.993106	See Note 3	V4	Mercury/Mariner/Force/Yamaha (old)/Honda	12.75	.21
031051	.992003	.993003	.102	V6	Mercury/Mariner	16	.16
031052	.992004	.993004	.102	V6	Mercury/Mariner	15.5	.18
031064	.992003	.993003	.102	V6	Mercury/Mariner	15	.17
031065	.992004	.993004	.102	V6	Mercury/Mariner	14.5	.19
031066	.992005	.993005	.102	V6	Mercury/Mariner	14.25	.21
031068	.992006	.993006	.102	V6	Mercury/Mariner	14	.23
032092	.992104	.993104	.102	V4	Mercury (old)	13	.17
032093	.992105	.993105	.102	V4	Mercury (old)	13	.19
032094	.992106	.993106	.102	V4	Mercury (old)	13	.21
061001	.992103	.993103	.10	V4	Suzuki	13.75	.15
061002	.992104	.993104	.110	V4	Suzuki	13.25	.17
061003	.992105	.993105	.110	V4	Suzuki	13	.19
061004	.992106	.993106	.110	V4	Suzuki	13	.21
101025	.992002	.993002	.103	V6 & I/O	Yamaha (current)/Yamaha I/O	15.25	.15
101026	.992003	.993003	.103	V6 & I/O	Yamaha (current)/Yamaha I/O	14.625	.16
101027	.992003	.993003	.103	V6 & I/O	Yamaha (current)/Yamaha I/O	14.5	.17
101028	.992004	.993004	.103	V6 & I/O	Yamaha (current)/Yamaha I/O	14	.19
101029	.992005	.993005	.103	V6 & I/O	Yamaha (current)/Yamaha I/O	13.75	.21
101030	.992006	.993006	.103	V6 & I/O	Yamaha (current)/Yamaha I/O	13.5	.23
101032	.992103	.993103	See Note 1	V4	Yamaha (current)	13.5	.15
101033	.992104	.993104	See Note 1	V4	Yamaha (current)	13.25	.17
101034	.992105	.993105	See Note 1	V4	Yamaha (current)	13	.19
101035	.992106	.993106	See Note 1	V4	Yamaha (current)	12.625	.21
142010	.992103	.993103	.109	V4	Nissan/Tohatsu	13.5	14.6
142011	.992103	.993103	.109	V4	Nissan/Tohatsu	13.5	15.7
142012	.992104	.993104	.109	V4	Nissan/Tohatsu	12.9	17.6

YHS™ High-Cross Reference

# MI MATCH-XHS™ CROSS REFERENCE

CROSS REFERENCE

MI Match Part #	Vortex Part #	Rapture Part#	XHS Kit #	Series	Engine Application	Diameter	Pitch
142013	.992105	.993105	.109	.V4	.Nissan/Tohatsu	.12.6	.19.9
161001	.992002	.993002	.105	.I/O	.Volvo SX/OMC Cobra SX	.15.5	.15
161002	.992003	.993003	.105	.I/O	.Volvo SX/OMC Cobra SX	.15	.17
161003	.992004	.993004	.105	.I/O	.Volvo SX/OMC Cobra SX	.14.5	.19
161004	.992005	.993005	.105	.I/O	.Volvo SX/OMC Cobra SX	.14.25	.21

	Yamaha	
Note 1	T50, 1996 to Present, 15 tooth spline	108
	60-100 HP Including 4-Stroke, 1984 to present, 15 tooth spline	108
	80-140 HP, 1978 thru 1983, 15 tooth spline	102
	115-130 HP, 1984 to present, 15 tooth spline	103

	Evinrude/Johnson Outboards	
Note 2	90-140 Large Gearcase, 1976 thru 1990, 15 tooth spline	101
	90-140 Large Gearcase, 1991 to present, 15 tooth spline	100
	150-300 HP, 1976 thru 1990, 15 tooth spline	101
	150-300 HP, 1991 to present, 15 tooth spline	100
	OMC/Cobra Sterndrives	
Model 800/Cobra/King Cobra, 1978 thru 1990, 15 tooth spline	101	
Model 800/Cobra/King Cobra, 1991 thru 1994, 15 tooth spline	100	

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

## XHS™ Hub System Cross Reference to Mercury Flo-Torq® Hub System

XHS™ Hub Kit #	Mercury Flo-Torq® Part #	XHS™ Hub Kit#	Mercury Flo-Torq® Part #
835257A1	.102	835272A1	.108
835265A1	.100	835277A1	.102
835266A1	.106	8.35279A1	.107
835267A1	.101	835281A1	.104
835270A1	.105	835282A1	.110
835271A1	.103	835284A1	.109



## EVINRUDE®, JOHNSON®

### 45-75 HORSEPOWER • LARGE GEARCASE

Propeller Series B (4-1/4" Gearcase)

#### ENGINES - MODEL & YEAR

45 HP 2 Cyl. Commercial . . . . . 1986 & Newer	50 HP 3 Cyl. Pleasure . . . . . 1994 & Newer
50 HP 2 Cyl. Commercial . . . . . 1977-79	55 HP 3 Cyl. Pleasure . . . . . 1968-69
55 HP 2 Cyl. Commercial . . . . . 1980 & Newer	60 HP 3 Cyl. Pleasure . . . . . 1970-71, 1986 & Newer
65 HP 3 Cyl. Commercial . . . . . 1984 & Newer	
50 HP 2 Cyl. Pleasure . . . . . 1971-74	

(LARGE GEARCASE & THRU HUB EXHAUST)

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
13-3/4 x 15	3	992103		13-3/8 x 15	3	*993103	
13-1/4 x 17	3	992104		13-1/8 x 17	3	*993104	
13 x 19	3	992105		13 x 19	3	*993105	
12-3/4 x 21	3	992106		13 x 21	3	*993106	

**Use XHS™ Hub Kit 106**

★ Do NOT use Gearcase Adapter Ring supplied with propeller.

### 85-140 HORSEPOWER • V-4 GEARCASE

Propeller Series B (4-1/4" Gearcase)

#### ENGINES - MODEL & YEAR

85 HP . . . . . 1969-80, 1991-95	115 HP . . . . . 1973 & Newer
88 HP . . . . . 1981-96	120 HP . . . . . 1986-94
90 HP . . . . . 1981 & Newer	125 HP . . . . . 1971-72
100 HP . . . . . 1979-80, 1988-93	135 HP . . . . . 1973-76
110 HP . . . . . 1986-89	140 HP . . . . . 1977-94
112 HP . . . . . 1994-96	

(13 SPLINE & THRU HUB EXHAUST)

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
13-3/4 x 15	3	992103		13-3/8 x 15	3	*993103	
13-1/4 x 17	3	992104		13-1/8 x 17	3	*993104	
13 x 19	3	992105		13 x 19	3	*993105	
12-3/4 x 21	3	992106		13 x 21	3	*993106	

**Use XHS™ Hub Kit 106**

★ Do NOT use Gearcase Adapter Ring supplied with propeller.

XHS™ Hub Motor Application

★ Available 2003 Season.

Propeller and Hub sold separately. Vortex™ Series propellers must be used with Michigan Wheel XHS™ hub system or Mercury Flo-Torq® hub system. Complete Kits are available by combining propeller and XHS™ hub kit part numbers. Example: 992002-100



## EVINRUDE®, JOHNSON® (continued)

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

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

90 HP V-4	1995 & Newer	155 HP V-6 Commercial	1991 & Newer
100 HP V-4 Commercial	1991 & Newer	175 HP V-6	1991 & Newer
115 HP V-4	1995 & Newer	200 HP V-6	1991 & Newer
130 HP V-4	1995 & Newer	200 HP V-6	2000 & Newer
140 (25") HP V-4	1991-94	225 HP V-6	1991 & Newer
150 HP V-6 Commercial	1993 & Newer	250 HP V-8	1991 & Newer
150 HP V-6	1991 & Newer	300 HP V-8	1991-95

(15 SPLINE & THRU HUB EXHAUST)

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		Blade #	RH	Diameter & Pitch	Blade#	RH	LH
15-1/4 x 15	3	3	992002	14-1/4 x 15	3	★993002	★993012
15 x 17	3	3	992003	14-1/4 x 17	3	★993003	★993013
14-1/2 x 19	3	3	992004	14-1/4 x 19	3	★993004	★993014
14-1/4 x 21	3	3	992005	14-1/4 x 21	3	★993005	★993015
14 x 23	3	3	992006	14-1/4 x 23	3	★993006	★993016
				14-1/4 x 25	3	★993007	★993017
14-3/4 x 16	4	4	992202				
14-1/2 x 18	4	4	992203				
14-1/4 x 20	4	4	992204				

**Use XHS™ Hub  
Kit 100**

### 90-300 HORSEPOWER • V-6 GEARCASE (1976-90)

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

100 HP V-4 Commercial	1984-90	155 HP V-8 Commercial	1978-90
120-140 HP V-4	1985	175 HP V-8	1977-90
140 (25") HP V-4	1989-90	200 HP V-8	1976-90
150 HP V-6	1978-90	225 HP V-8	1986-90
185 HP V-6	1984-85	275 HP V-8	1986-88
235 HP V-6	1978-85	300 HP V-8	1986-90
2.6 Liter V-6	1984-85	3.6 Liter V-8	1986-87

(15 SPLINE & THRU HUB EXHAUST)

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		Blade #	RH	Diameter & Pitch	Blade#	RH	LH
15-1/4 x 15	3	3	992002	14-1/4 x 15	3	★993002	★993012
15 x 17	3	3	992003	14-1/4 x 17	3	★993003	★993013
14-1/2 x 19	3	3	992004	14-1/4 x 19	3	★993004	★993014
14-1/4 x 21	3	3	992005	14-1/4 x 21	3	★993005	★993015
14 x 23	3	3	992006	14-1/4 x 23	3	★993006	★993016
				14-1/4 x 25	3	★993007	★993017
14-3/4 x 16	4	4	992202				
14-1/2 x 18	4	4	992203				
14-1/4 x 20	4	4	992204				

**Use XHS™ Hub  
Kit 101**

★ Available 2003 Season.

Propeller and Hub sold separately. Vortex™ Series propellers must be used with Michigan Wheel XHS™ hub system or Mercury Flo-Torq® hub system. Complete Kits are available by combining propeller and XHS™ hub kit part numbers. Example: 992002-100



## FORCE®, CHRYSLER, U.S. MARINE

### 75-150 HORSEPOWER • DUAL EXHAUST UNITS

Propeller Series B (4-1/4" Gearcase)

#### ENGINES - MODEL & YEAR

75-150 HP ..... 1995-Present

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
13-3/4 x 15	3	992103		13-3/8 x 15	3	*993103	
13-1/4 x 17	3	992104		13-1/8 x 17	3	*993104	
13 x 19	3	992105		13 x 19	3	*993105	
12-3/4 x 21	3	992106		13 x 21	3	*993106	

**Use XHS™ Hub  
Kit 102**

★ Note: Use Gearcase adapter ring supplied with propeller.

## HONDA

### 75-90 HORSEPOWER

Propeller Series B (4-1/4" Gearcase)

#### ENGINES - MODEL & YEAR

75 HP ..... 1995-98  
90 HP ..... 1995-98

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
13-3/4 x 15	3	992103		13-3/8 x 15	3	*993103	
13-1/4 x 17	3	992104		13-1/8 x 17	3	*993104	
13 x 19	3	992105		13 x 19	3	*993105	
12-3/4 x 21	3	992106		13 x 21	3	*993106	

**Use XHS™ Hub  
Kit 102**

★ Note: Use Gearcase adapter ring supplied with propeller.

### 75-130 HORSEPOWER

Propeller Series B (4-1/4" Gearcase)

#### ENGINES - MODEL & YEAR

75 HP ..... 1999 & Newer      115 HP ..... 1998 & Newer  
90 HP ..... 1999 & Newer      130 HP ..... 1998 & Newer

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
13-3/4 x 15	3	992103		13-3/8 x 15	3	*993103	
13-1/4 x 17	3	992104		13-1/8 x 17	3	*993104	
13 x 19	3	992105		13 x 19	3	*993105	
12-3/4 x 21	3	992106		13 x 21	3	*993106	

**Use XHS™ Hub  
Kit 107**

★ Note: Use Gearcase adapter ring supplied with propeller.

XHS™ Hub Motor Application

★ Available 2003 Season.

Propeller and Hub sold separately. Vortex™ Series propellers must be used with Michigan Wheel XHS™ hub system or Mercury Flo-Torq® hub system. Complete Kits are available by combining propeller and XHS™ hub kit part numbers. Example: 992002-100



## MERCURY™, MARINER™, SEA RAY

### 60-140 HORSEPOWER • 3 CYLINDER, 4 & 6 IN LINE CYLINDER

Propeller Series B (4-1/4" Gearcase)

#### ENGINES - MODEL & YEAR

60 HP Bigfoot (Not 4-Stroke) . . . . .	1995 & Newer	80 HP . . . . .	1978-89
650 Model 4 Cylinder (2:1) . . . . .	1961-70	80 HP (Yamaha) . . . . .	1977
650 Model 2 Cylinder . . . . .	Thru 1971	80 HP (Mariner) . . . . .	1977
70 HP . . . . .	1987-89	90 HP . . . . .	1978 & Newer
75 HP . . . . .	1984 & Newer	100 HP . . . . .	1988 & Newer
800-850 Models 6 Cylinder . . . . .	Thru 1972	115 HP . . . . .	1978 & Newer
800-850 Models 4 Cylinder . . . . .	1972-77	125 HP . . . . .	1994 & Newer
900-1500 Models . . . . .	Thru 1977	140 HP Includes Sea Pro & Offshore	

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
13-3/4 x 15	3	992103		13-3/8 x 15	3	★993103	
13-1/4 x 17	3	992104		13-1/8 x 17	3	★993104	
13 x 19	3	992105		13 x 19	3	★993105	
12-3/4 x 21	3	992106		13 x 21	3	★993106	

**Use XHS™ Hub  
Kit 102**

★ Note: Use Gearcase adapter ring supplied with propeller.

### 135-300 HORSEPOWER • V-6 GEARCASE

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

135 HP . . . . .	1986 & Newer	225 HP . . . . .	1980 & Newer
150 HP . . . . .	1978 & Newer	250 HP . . . . .	1994 & Newer
175 HP . . . . .	1978 & Newer	275 HP . . . . .	1990-94
200 HP . . . . .	1978 & Newer	300 HP . . . . .	1983, 1999 & Newer
220 HP . . . . .	1987-88	3.4 Liter . . . . .	1984-86

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

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
15-1/4 x 15	3	992002		14-1/4 x 15	3	★993002	★993012
15 x 17	3	992003		14-1/4 x 17	3	★993003	★993013
14-1/2 x 19	3	992004		14-1/4 x 19	3	★993004	★993014
14-1/4 x 21	3	992005		14-1/4 x 21	3	★993005	★993015
14 x 23	3	992006		14-1/4 x 23	3	★993006	★993016
				14-1/4 x 25	3	★993007	★993017
14-3/4 x 16	4	992202					
14-1/2 x 18	4	992203					
14-1/4 x 20	4	992204					

**Use XHS™ Hub  
Kit 102**

★ Available 2003 Season.

Propeller and Hub sold separately. Vortex™ Series propellers must be used with Michigan Wheel XHS™ hub system or Mercury Flo-Torq® hub system. Complete Kits are available by combining propeller and XHS™ hub kit part numbers. Example: 992002-100



## NISSAN, TOHATSU

### 90-140 HORSEPOWER

Propeller Series B (4-1/4" Gearcase)

#### ENGINES - MODEL & YEAR

90 HP .....	1987 & Newer	120 HP .....	1988 & Newer
115 HP .....	1992 & Newer	140 HP .....	1988 & Newer

Excludes TRP Drive

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
13-3/4 x 15	3	992103		13-3/8 x 15	3	*993103	
13-1/4 x 17	3	992104		13-1/8 x 17	3	*993104	
13 x 19	3	992105		13 x 19	3	*993105	
12-3/4 x 21	3	992106		13 x 21	3	*993106	

**Use XHS™ Hub  
Kit 109**

★ Note: Use Gearcase adapter ring supplied with propeller.

## SUZUKI

### 60-140 HORSEPOWER

Propeller Series B (4-1/4" Gearcase)

#### ENGINES - MODEL & YEAR

DF 60,70 .....	1998 & Newer	DT 90 .....	1989-97
DT 75 .....	1992-97	DT 100 .....	1989 & Newer
DT 75 .....	1983-91	DT 115, 140 .....	1992 & Newer
DT 85 .....	1992 & Newer	DT 115, 140 .....	1981-91
DT 85 .....	1979-91		

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
13-3/4 x 15	3	992103		13-3/8 x 15	3	*993103	
13-1/4 x 17	3	992104		13-1/8 x 17	3	*993104	
13 x 19	3	992105		13 x 19	3	*993105	
12-3/4 x 21	3	992106		13 x 21	3	*993106	

**Use XHS™ Hub  
Kit 110**

★ Note: Do NOT use Gear adapter ring supplied with propeller.

XHS™ Hub Motor Application

★ Available 2003 Season.

Propeller and Hub sold separately. Vortex™ Series propellers must be used with Michigan Wheel XHS™ hub system or Mercury Flo-Torq® hub system. Complete Kits are available by combining propeller and XHS™ hub kit part numbers. Example: 992002-100





## SUZUKI

### 150-225 HORSEPOWER

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

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

#### PROPELLER APPLICATION

				Vortex		Rapture Performance Stainless Steel					
Diameter & Pitch		Blade #		RH		Diameter & Pitch	Blade#	RH	LH		
15-1/4	x	15	3	992002		14-1/4	x	15	3	*993002	*993012
15	x	17	3	992003		14-1/4	x	17	3	*993003	*993013
14-1/2	x	19	3	992004		14-1/4	x	19	3	*993004	*993014
14-1/4	x	21	3	992005		14-1/4	x	21	3	*993005	*993015
14	x	23	3	992006		14-1/4	x	23	3	*993006	*993016
						14-1/4	x	25	3	*993007	*993017
14-3/4	x	16	4	992202							
14-1/2	x	18	4	992203							
14-1/4	x	20	4	992204							

**Use XHS™ Hub  
Kit 104**

## YAMAHA

### 50-100 HORSEPOWER

Propeller Series B (4-1/4" Gearcase)

#### ENGINES - MODEL & YEAR

T50 HP	1996 & Newer	80 HP	1997
60 HP	1992 & Newer	85 HP	1991-97
70 HP	1984 & Newer	90 HP	1984 & Newer
75 HP	1994 & Newer	FS80 (4-Stroke)	1999 & Newer
		FS100 (4-Stroke)	1999 & Newer

#### PROPELLER APPLICATION

				Vortex		Rapture Performance Stainless Steel				
Diameter & Pitch		Blade #		RH		Diameter & Pitch	Blade#	RH	LH	
13-3/4	x	15	3	992103		13-3/8	x	15	3	*993103
13-1/4	x	17	3	992104		13-1/8	x	17	3	*993104
13	x	19	3	992105		13	x	19	3	*993105
12-3/4	x	21	3	992106		13	x	21	3	*993106

**Use XHS™ Hub  
Kit 108**

★ Note: Use Gearcase adapter ring supplied with propeller.

★ Available 2003 Season.

Propeller and Hub sold separately. Vortex™ Series propellers must be used with Michigan Wheel XHS™ hub system or Mercury Flo-Torq® hub system. Complete Kits are available by combining propeller and XHS™ hub kit part numbers. Example: 992002-100



## YAMAHA

### 115-130 HORSEPOWER

Propeller Series B (4-1/4" Gearcase)

#### ENGINES - MODEL & YEAR

115 HP ..... 1984 & Newer      FS115 (4-Stroke) ..... 2000 & Newer  
 130 HP ..... 1984 & Newer

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
13-3/4 x 15	3	992103		13-3/8 x 15	3	*993103	
13-1/4 x 17	3	992104		13-1/8 x 17	3	*993104	
13 x 19	3	992105		13 x 19	3	*993105	
12-3/4 x 21	3	992106		13 x 21	3	*993106	

**Use XHS™ Hub  
Kit 103**

★ Note: Use Gearcase adapter ring supplied with propeller.

### 80-140 HORSEPOWER

Propeller Series B (4-1/4" Gearcase)

#### ENGINES - MODEL & YEAR

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

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
13-3/4 x 15	3	992103		13-3/8 x 15	3	*993103	
13-1/4 x 17	3	992104		13-1/8 x 17	3	*993104	
13 x 19	3	992105		13 x 19	3	*993105	
12-3/4 x 21	3	992106		13 x 21	3	*993106	

**Use XHS™ Hub  
Kit 102**

★ Note: Use Gearcase Adapter Ring supplied with propeller.

### 150-175 HORSEPOWER

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

150 HP ..... 1979-83      175 HP (DE & VMAX) ..... 2001  
 175 HP ..... 1978-79

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
15-1/4 x 15	3	992002		14-1/4 x 15	3	*993002	*993012
15 x 17	3	992003		14-1/4 x 17	3	*993003	*993013
14-1/2 x 19	3	992004		14-1/4 x 19	3	*993004	*993014
14-1/4 x 21	3	992005		14-1/4 x 21	3	*993005	*993015
14 x 23	3	992006		14-1/4 x 23	3	*993006	*993016
				14-1/4 x 25	3	*993007	*993017
14-3/4 x 16	4	992202					
14-1/2 x 18	4	992203					
14-1/4 x 20	4	992204					

**Use XHS™ Hub  
Kit 102**

★ Available 2003 Season.

Propeller and Hub sold separately. Vortex™ Series propellers must be used with Michigan Wheel XHS™ hub system or Mercury Flo-Torq® hub system. Complete Kits are available by combining propeller and XHS™ hub kit part numbers. Example: 992002-100



## YAMAHA

### 150-250 HORSEPOWER

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

150 HP	.....1986 & Newer	225 HP	.....1986 & Newer
175, 200 HP	.....1984 & Newer	250 HP	.....1990 & Newer
220 HP (Special)	.....1984-85	F200 (4-Stroke)	.....2002 & Newer
225 HP (Excel)	.....1987-88	F225 (4-Stroke)	.....2002 & Newer

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		Blade #	RH	Diameter & Pitch	Blade#	RH	LH
15-1/4 x 15	3	3	992002	14-1/4 x 15	3	★993002	★993012
15 x 17	3	3	992003	14-1/4 x 17	3	★993003	★993013
14-1/2 x 19	3	3	992004	14-1/4 x 19	3	★993004	★993014
14-1/4 x 21	3	3	992005	14-1/4 x 21	3	★993005	★993015
14 x 23	3	3	992006	14-1/4 x 23	3	★993006	★993016
				14-1/4 x 25	3	★993007	★993017
14-3/4 x 16	4	4	992202				
14-1/2 x 18	4	4	992203				
14-1/4 x 20	4	4	992204				

**Use XHS™ Hub  
Kit 103**



★ Available 2003 Season.

Propeller and Hub sold separately. Vortex™ Series propellers must be used with Michigan Wheel XHS™ hub system or Mercury Flo-Torq® hub system. Complete Kits are available by combining propeller and XHS™ hub kit part numbers. Example: 992002-100



## MERCUISER™

### MERCUISER™, ALPHA ONE™, BRAVO ONE™ • 120-300 HP (1983 & NEWER)

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

120 -190 HP Mercruiser™ (includes 470, 488, 898) .1983-85	5.0L (180-240 HP) Alpha One™ . . . . .1986 & Newer
200-260 HP Mercruiser™ (includes 228, 898) . . . . .1983-85	5.7L (210-260 HP) Alpha One™ . . . . .1986 & Newer
2.5 L (120 HP) Alpha One™ . . . . .1986-89	262 Magnum (205 HP) Alpha One™ . . . . .1997 & Newer
3.0L (125-140 HP) Alpha One™ . . . . .1986 & Newer	350 Magnum (240-300 HP) Alpha One™ . . . . .1987 & Newer
3.7L (165-190 HP) Alpha One™ . . . . .1986-89	5.0L (220-240 HP) Bravo One™ . . . . .1998 & Newer
4.3L (155-210 HP) Alpha One™ . . . . .1986 & Newer	5.7L (210-280 HP) Bravo One™ . . . . .1995 & Newer
	350 Magnum (300 HP) Bravo One™ . . . . .1996 & Newer

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
15-1/4 x 15	3	992002		14-1/4 x 15	3	★993002	★993012
15 x 17	3	992003		14-1/4 x 17	3	★993003	★993013
14-1/2 x 19	3	992004		14-1/4 x 19	3	★993004	★993014
14-1/4 x 21	3	992005		14-1/4 x 21	3	★993005	★993015
14 x 23	3	992006		14-1/4 x 23	3	★993006	★993016
				14-1/4 x 25	3	★993007	★993017
14-3/4 x 16	4	992202					
14-1/2 x 18	4	992203					
14-1/4 x 20	4	992204					

**Use XHS™ Hub Kit 102**

### MERCUISER™ • 120-330 HP (THRU 1982)

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

1A, 1B, 1C . . . . .Thru 1982	225S, 233 . . . . .Thru 1982
120, 140, 145 DTS . . . . .Thru 1982	225TRS, 260 . . . . .Thru 1982
165, 228, 470, 485, 888, 898 . . . . .Thru 1982	280TRS, 330TRS . . . . .Thru 1982

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH		Diameter & Pitch	Blade#	RH	LH
15-1/4 x 15	3	992002		14-1/4 x 15	3	★993002	★993012
15 x 17	3	992003		14-1/4 x 17	3	★993003	★993013
14-1/2 x 19	3	992004		14-1/4 x 19	3	★993004	★993014
14-1/4 x 21	3	992005		14-1/4 x 21	3	★993005	★993015
14 x 23	3	992006		14-1/4 x 23	3	★993006	★993016
				14-1/4 x 25	3	★993007	★993017
14-3/4 x 16	4	992202					
14-1/2 x 18	4	992203					
14-1/4 x 20	4	992204					

**Use XHS™ Hub Kit 102**

XHS™ Hub Motor Application

★ Available 2003 Season.

Propeller and Hub sold separately. Vortex™ Series propellers must be used with Michigan Wheel XHS™ hub system or Mercury Flo-Torq® hub system. Complete Kits are available by combining propeller and XHS™ hub kit part numbers. Example: 992002-100



## OMC-OUTBOARD MARINE CORP.

### MODEL 400 • COBRA®

Propeller Series B (4-1/4" Gearcase)

#### ENGINES - MODEL & YEAR

2.3L (120 HP) Model 400	..... Thru 1991	2.3L (128 HP) Cobra®	..... 1988-91
2.5L (120 HP) Model 400	..... 1978-84	2.5L (120 HP) Cobra®	..... 1985-87
3.0L (140 HP) Model 400	..... Thru 1989	3.0L (130 HP) Cobra®	..... Thru 1989
		3.0L (140 HP) Cobra®	..... 1985-87

#### PROPELLER APPLICATION

Vortex				Rapture Performance Stainless Steel			
Diameter & Pitch	Blade #	RH		Diameter & Pitch	Blade#	RH	LH
13-3/4 x 15	3	992103		13-3/8 x 15	3	★993103	
13-1/4 x 17	3	992104		13-1/8 x 17	3	★993104	
13 x 19	3	992105		13 x 19	3	★993105	
12-3/4 x 21	3	992106		13 x 21	3	★993106	

**Use XHS™ Hub Kit 106**

★ Note: Do NOT use Gearcase Adapter Ring supplied with propeller.

### MODEL 800, KING COBRA®, COBRA® (1978-90) - 15 SPLINE

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

3.0 Liter	..... 1990	5.7 Liter	..... 1978-90
3.8 Liter	..... 1978-85	5.8 Liter	..... 1989-90
4.3 Liter	..... 1985-90	7.4 Liter	..... 1990
5.0 Liter	..... 1978-90	7.5 Liter	..... 1987-90

#### PROPELLER APPLICATION

Vortex				Rapture Performance Stainless Steel			
Diameter & Pitch	Blade #	RH		Diameter & Pitch	Blade#	RH	LH
15-1/4 x 15	3	992002		14-1/4 x 15	3	★993002	★993012
15 x 17	3	992003		14-1/4 x 17	3	★993003	★993013
14-1/2 x 19	3	992004		14-1/4 x 19	3	★993004	★993014
14-1/4 x 21	3	992005		14-1/4 x 21	3	★993005	★993015
14 x 23	3	992006		14-1/4 x 23	3	★993006	★993016
				14-1/4 x 25	3	★993007	★993017
14-3/4 x 16	4	992202					
14-1/2 x 18	4	992203					
14-1/4 x 20	4	992204					

**Use XHS™ Hub Kit 101**

### MODEL 800, KING COBRA®, COBRA® (1991-94) - 15 SPLINE & THRU HUB EXHAUST

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

3.0 Liter	..... 1991-93	5.8 Liter (Cobra)	..... 1991-93
3.2 Liter	..... 1992-93	5.8 Liter (King Cobra)	..... 1992-94
4.3 Liter	..... 1991-93	7.4 Liter	..... 1991-93
5.0 Liter	..... 1991-93	8.2 Liter	..... 1992-93
5.7 Liter	..... 1991-93	Includes H.O. & EFI Models	

#### PROPELLER APPLICATION

Vortex				Rapture Performance Stainless Steel			
Diameter & Pitch	Blade #	RH		Diameter & Pitch	Blade#	RH	LH
15-1/4 x 15	3	992002		14-1/4 x 15	3	★993002	★993012
15 x 17	3	992003		14-1/4 x 17	3	★993003	★993013
14-1/2 x 19	3	992004		14-1/4 x 19	3	★993004	★993014
14-1/4 x 21	3	992005		14-1/4 x 21	3	★993005	★993015
14 x 23	3	992006		14-1/4 x 23	3	★993006	★993016
14-3/4 x 16	4	992202					
14-1/2 x 18	4	992203					
14-1/4 x 20	4	992204					

**Use XHS™ Hub Kit 100**

★ Available 2003 Season.

Propeller and Hub sold separately. Vortex™ Series propellers must be used with Michigan Wheel XHS™ hub system or Mercury Flo-Torq® hub system. Complete Kits are available by combining propeller and XHS™ hub kit part numbers. Example: 992002-100



## OMC-OUTBOARD MARINE CORP.

### SEA DRIVE® (1991 & NEWER) • LARGE GEARCASE

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

1.6 Liter V-4	1991 & Newer	2.7 Liter V-6	1991 & Newer
1.8 Liter V-4	1991 & Newer	3.0 Liter V-6	1991 & Newer
2.0 Liter V-4	1991 & Newer	3.6 Liter V-8	1991 & Newer
2.6 Liter V-6	1991 & Newer	4.0 Liter V-8	1991 & Newer

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH	RH	Diameter & Pitch	Blade#	RH	LH
15-1/4 x 15	3	992002	992002	14-1/4 x 15	3	★993002	★993012
15 x 17	3	992003	992003	14-1/4 x 17	3	★993003	★993013
14-1/2 x 19	3	992004	992004	14-1/4 x 19	3	★993004	★993014
14-1/4 x 21	3	992005	992005	14-1/4 x 21	3	★993005	★993015
14 x 23	3	992006	992006	14-1/4 x 23	3	★993006	★993016
				14-1/4 x 25	3	★993007	★993017
14-3/4 x 16	4	992202					
14-1/2 x 18	4	992203					
14-1/4 x 20	4	992204					

**Use XHS™ Hub  
Kit 100**

### SEA DRIVE® (1982-90) • LARGE GEARCASE

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

1.6 Liter V-4	1982-90	2.6 Liter V-6	1982-90
1.8 Liter V-4	1987-90	2.7 Liter V-6	1987-90
2.0 Liter V-4	1989-90	3.0 Liter V-6	1989-90
2.5 Liter V-4	1982-87	3.6 Liter V-8	1987-90
		4.0 Liter V-8	1989-90

#### PROPELLER APPLICATION

Diameter & Pitch	Blade #	Vortex		Rapture Performance Stainless Steel			
		RH	RH	Diameter & Pitch	Blade#	RH	LH
15-1/4 x 15	3	992002	992002	14-1/4 x 15	3	★993002	★993012
15 x 17	3	992003	992003	14-1/4 x 17	3	★993003	★993013
14-1/2 x 19	3	992004	992004	14-1/4 x 19	3	★993004	★993014
14-1/4 x 21	3	992005	992005	14-1/4 x 21	3	★993005	★993015
14 x 23	3	992006	992006	14-1/4 x 23	3	★993006	★993016
				14-1/4 x 25	3	★993007	★993017
14-3/4 x 16	4	992202					
14-1/2 x 18	4	992203					
14-1/4 x 20	4	992204					

**Use XHS™ Hub  
Kit 101**

XHS™ Hub Motor Application

★ Available 2003 Season.

Propeller and Hub sold separately. Vortex™ Series propellers must be used with Michigan Wheel XHS™ hub system or Mercury Flo-Torq® hub system. Complete Kits are available by combining propeller and XHS™ hub kit part numbers. Example: 992002-100



## VOLVO PENTA

### SX Cobra™, Volvo Penta SX™, OMC Cobra™ (1994 - Present) - 19 Spline

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

3.0 Liter . . . . .	1994 - Present	5.8 Liter . . . . .	1994 - 97
4.3 Liter . . . . .	1994 - Present	7.4 Liter . . . . .	1997 - Present
5.0 Liter . . . . .	1994 - Present	8.2 Liter . . . . .	1997
5.7 Liter . . . . .	1994 - Present		

#### PROPELLER APPLICATION

				Vortex		Rapture Performance Stainless Steel				
Diameter & Pitch		Blade #		RH	Diameter & Pitch	Blade#	RH	LH		
15-1/4	x 15	3		992002	14-1/4	x 15	3	★993002	★993012	
15	x 17	3		992003	14-1/4	x 17	3	★993003	★993013	
14-1/2	x 19	3		992004	14-1/4	x 19	3	★993004	★993014	
14-1/4	x 21	3		992005	14-1/4	x 21	3	★993005	★993015	
14	x 23	3		992006	14-1/4	x 23	3	★993006	★993016	
					14-1/4	x 25	3	★993007	★993017	
14-3/4	x 16	4		992202						
14-1/2	x 18	4		992203						
14-1/4	x 20	4		992204						

**Use XHS™ Hub  
Kit 105**

## YAMAHA

### Yamaha Sterndrive

Propeller Series A (4-3/4" Gearcase)

#### ENGINES - MODEL & YEAR

3.0L (130 HP) EST/PSR . . . . .	1989 - 93	5.7L (260 HP) EST/PSR/YEMS . . . . .	1989 - 93
4.3L (205 HP) EST/YEMS/PRS . . . . .	1989 - 93	7.4L (300 HP) Hydra Drive (EST) . . . . .	1992 - 93
5.0L (205 HP) EST/PSR/YEMS . . . . .	1989 - 93		

#### PROPELLER APPLICATION

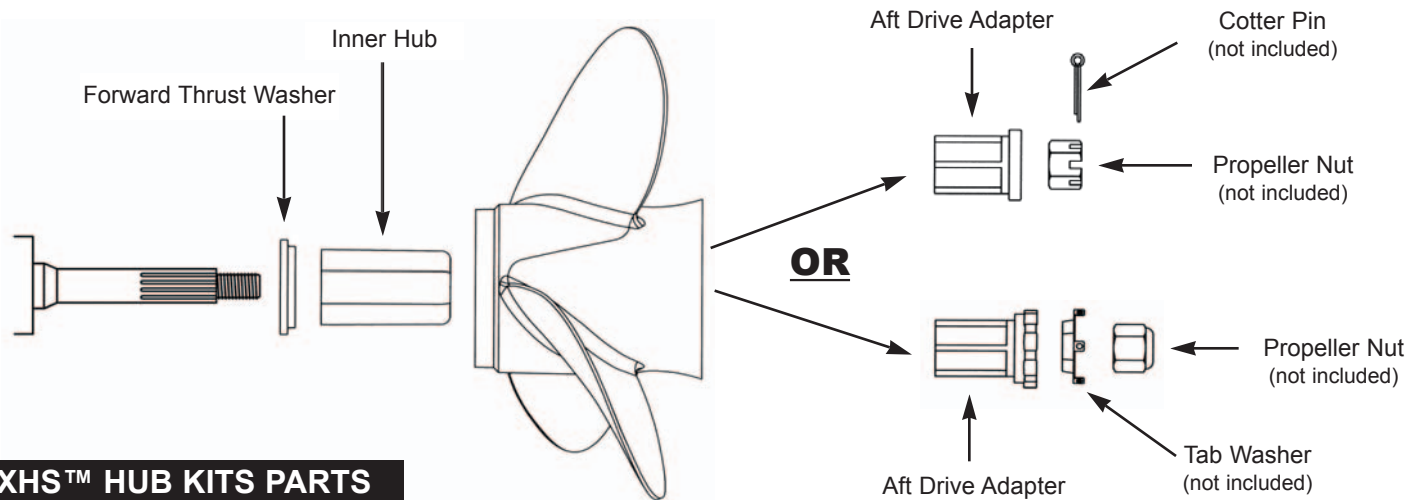
				Vortex		Rapture Performance Stainless Steel				
Diameter & Pitch		Blade #		RH	Diameter & Pitch	Blade#	RH	LH		
15-1/4	x 15	3		992002	14-1/4	x 15	3	★993002	★993012	
15	x 17	3		992003	14-1/4	x 17	3	★993003	★993013	
14-1/2	x 19	3		992004	14-1/4	x 19	3	★993004	★993014	
14-1/4	x 21	3		992005	14-1/4	x 21	3	★993005	★993015	
14	x 23	3		992006	14-1/4	x 23	3	★993006	★993016	
					14-1/4	x 25	3	★993007	★993017	
14-3/4	x 16	4		992202						
14-1/2	x 18	4		992203						
14-1/4	x 20	4		992204						

**Use XHS™ Hub  
Kit 103**

★ Available 2003 Season.

Propeller and Hub sold separately. Vortex™ Series propellers must be used with Michigan Wheel XHS™ hub system or Mercury Flo-Torq® hub system. Complete Kits are available by combining propeller and XHS™ hub kit part numbers. Example: 992002-100

# XHS™ PROPELLER ACCESSORIES



## XHS™ HUB KITS PARTS

Hub Kit	Description	Parts	
100	Evinrude/Johnson Outboards - OMC Sterndrives (V6/V8 Gearcase 1991 to present)	991202 991201 991203	Forward Thrust Washer Inner Hub Aft Drive Adapter
101	Evinrude/Johnson Outboards - OMC Sterndrives (V6/V8 Gearcase 1984 - 1990)	991204 991201 991203	Forward Thrust Washer Inner Hub Aft Drive Adapter
102	MerCruiser Alpha One & Bravo One (less than 400 HP) Mercury/Mariner 60HP Bigfoot, 70-125 HP Mercury/Mariner/Force 135-250 HP Force 90-120 HP Honda Outboards 75-90 HP thru 1998 Yamaha Outboards thru 1983	991204 991201 991205	Forward Thrust Washer Inner Hub Aft Drive Adapter
103	Yamaha Outboards & Sterndrives (115-130 HP, 150-250 HP, V6 Gearcase 1984 to present)	991213 991201 991206	Forward Thrust Washer Inner Hub Aft Drive Adapter
104	Suzuki Outboards (150-225 HP, V6 Gearcase)	991207 991201 991208	Forward Thrust Washer Inner Hub Aft Drive Adapter
105	Volvo SX Sterndrives (19 tooth spline 1994 to present)	991202 991201 991208	Forward Thrust Washer Inner Hub Aft Drive Adapter
106	Evinrude/Johnson Outboards - OMC Sterndrives (V4 Gearcase 1968 to present)	991210 991201 991211	Forward Thrust Washer Inner Hub Aft Drive Adapter
107	Honda Outboards (115-130 HP 1998 to present, 75-90 HP 1999 to present)	991207 991201 991205	Forward Thrust Washer Inner Hub Aft Drive Adapter
108	Yamaha Outboards (50-100 HP, splined front thrust washer)	991212 991201 991206	Forward Thrust Washer Inner Hub Aft Drive Adapter
109	Nissan/Tohatsu Outboards (90-140 HP)	991213 991201 991214	Forward Thrust Washer Inner Hub Aft Drive Adapter
110	Suzuki V4 Outboards (60-140 HP)	991215 991201 991211	Forward Thrust Washer Inner Hub Aft Drive Adapter





## Limited Lifetime Warranty

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

Some surface discoloration is unavoidable in a cast stainless steel alloy, and will not be covered by this warranty. This warranty 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 Corporation under this warranty is to repair or replace the propeller, in the sole discretion of Michigan Wheel Corporation, and at its expense. In order to make a replacement claim, please contact the Michigan Wheel Corporation Customer Service Department, at (616) 452-6941, for a "Return Goods Authorization" number (RGA#), and shipping address instructions. The warranty will not cover any expense of propeller removal, shipping, or reinstallation of the propeller. The RGA# 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 your original purchase receipt.

The above warranty is Michigan Wheel Corporation's sole warranty for the Michigan Match™, Vortex™, Rapture™ or Ballistic™ Propeller. Michigan Wheel Corporation 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 Corporation  
Outboard & Sterndrive Division  
2685 Northridge Avenue NW, Suite G  
Grand Rapids, MI 49544  
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](http://www.nmpa.net) for a certified propeller repair shop near you.

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

A free service from:

Find the prop that matches your needs.

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

Name: \_\_\_\_\_

Street: \_\_\_\_\_

City/State: \_\_\_\_\_

Zip: \_\_\_\_\_ Phone: \_\_\_\_\_

Fax: \_\_\_\_\_ Date: \_\_\_\_\_

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

## PLEASURE BOAT – OUTBOARD & STERN DRIVE

### Boat Data

Manufacturer: \_\_\_\_\_ Model / Year: \_\_\_\_\_

\*Overall Length (OAL): \_\_\_\_\_ Waterline Length (WL): \_\_\_\_\_

Beam: \_\_\_\_\_ Draft: \_\_\_\_\_ Loaded Weight in Pounds: \_\_\_\_\_

\*Boat Hull Material:  Fiberglass  Steel  Aluminum  Wood  Other: \_\_\_\_\_

Present Hull Speed: \_\_\_\_\_ Desired Hull Speed: \_\_\_\_\_  Knots  MPH

Boat Use: \_\_\_\_\_

### Outboard & Stern Drive Engine Data

Motor – Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

Year: \_\_\_\_\_  Gas  Diesel

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

Cubic Inch Displacement (CID): \_\_\_\_\_

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

RPM: \_\_\_\_\_ Speed: \_\_\_\_\_

\*Gear Ratio: \_\_\_\_\_:1 \*No. of Engines:  Single  Twin

Does your boat have hydraulic power trim?  Yes  No

Stern Drive – Manufacturer: \_\_\_\_\_

Model: \_\_\_\_\_ Year: \_\_\_\_\_

### Propeller Data

\*Present Propeller: \_\_\_\_\_ diam. x \_\_\_\_\_ pitch Number of Blades: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

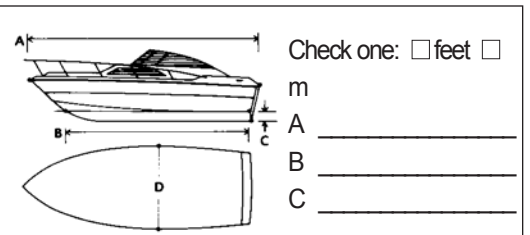
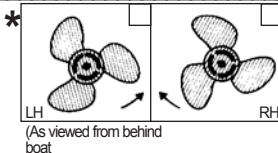
Material:  Aluminum  Stainless Steel  Other: \_\_\_\_\_

Part No. \_\_\_\_\_

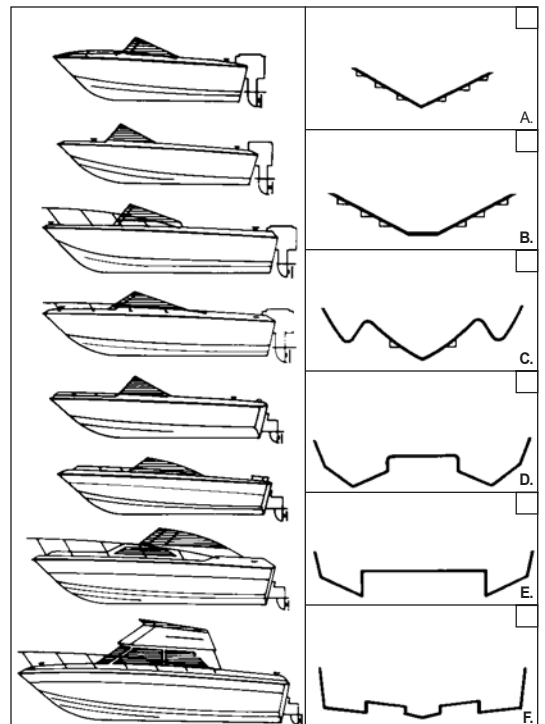
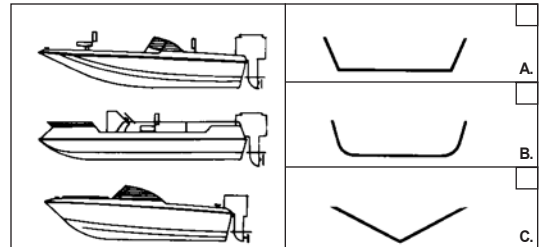
\*Shaft Size: \_\_\_\_\_

Your Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Circle boat type. Check hull type.



### For Michigan Wheel Corp. use only

Suggested Propeller Size: \_\_\_\_\_ diam. x \_\_\_\_\_ pitch Part No.: \_\_\_\_\_

Blades: \_\_\_\_\_ Material: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_