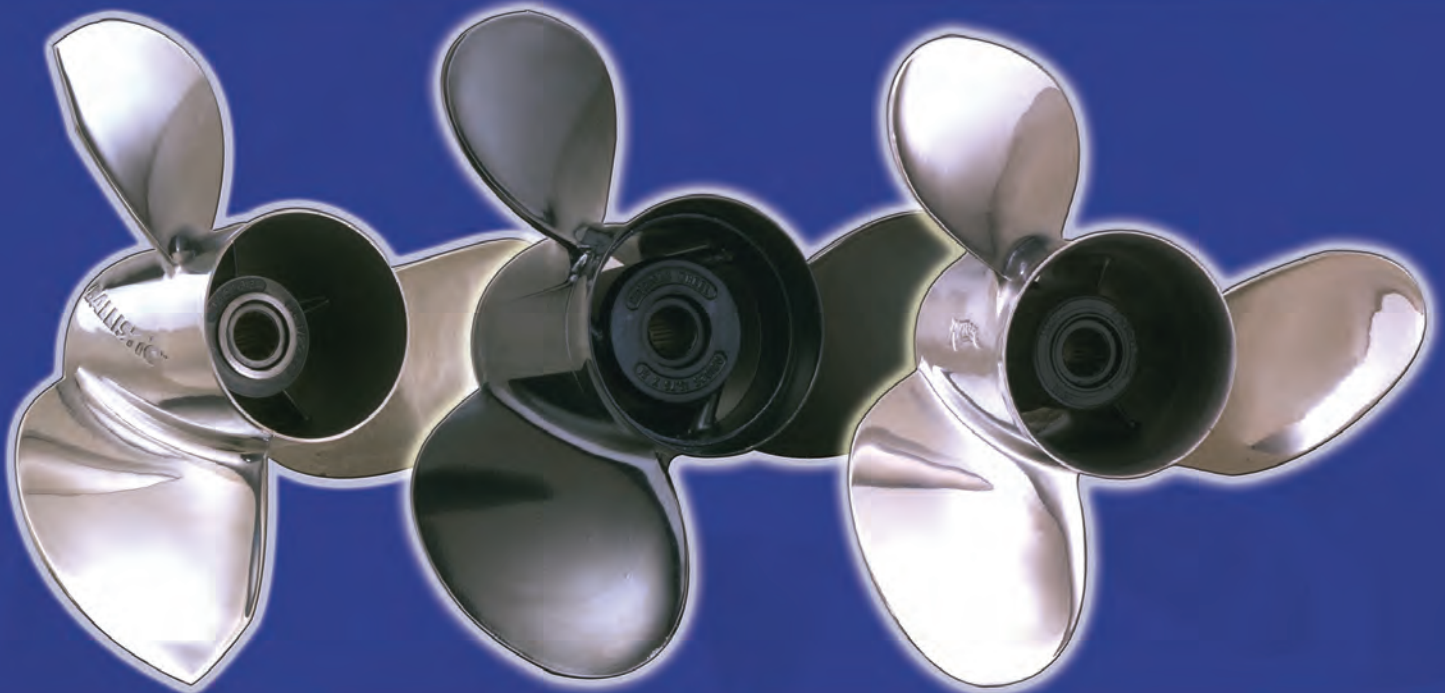


Michigan Wheel Corporation 

# ***OUTBOARD & STERNDRIVE PROPELLERS***



**BALLISTIC™**  
STAINLESS STEEL PROPS

**MICHIGAN  
MATCH**  
REPLACEMENT PROPELLERS

**RAPTURE**

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

## ***2001-2002 Catalog***



Since 1903, Michigan Wheel Corporation has remained a reliable and dedicated supplier of marine propellers to the recreational and commercial marine industry. The unmatched performance and wide variety of Michigan Propellers offer boaters a single source for propellers that are custom made for every kind of pleasure craft on the water.

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



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



Stainless performance with steel durability. Built for exhilaration and endurance!



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



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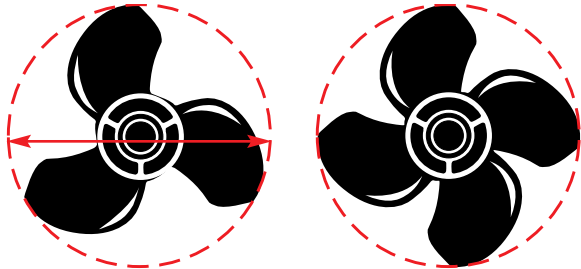
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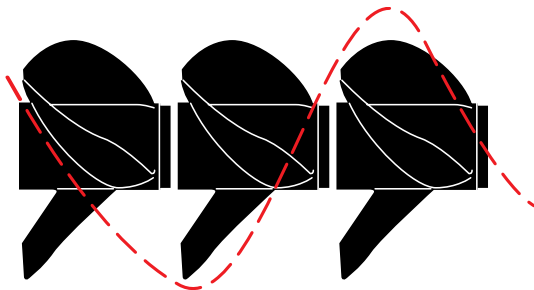
## Diameter

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



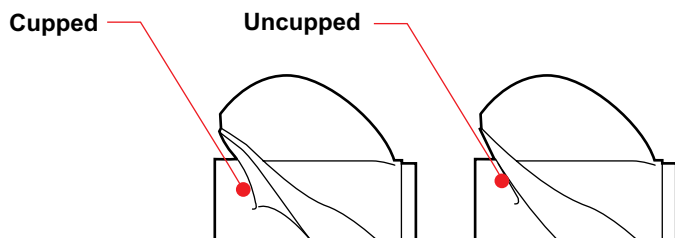
## Pitch

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



## Cupping

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

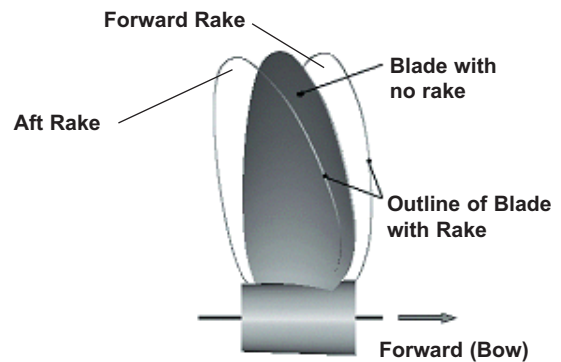


## Rake

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

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

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



## Ventilation

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

## Cavitation

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

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

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

# PROPELLER CHARACTERISTICS

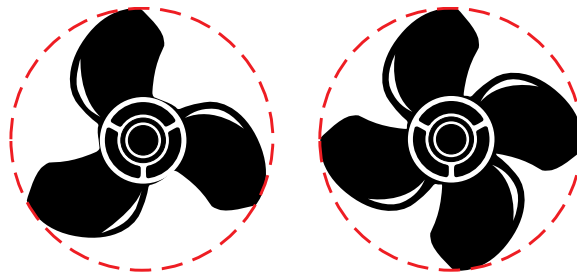
Finding the right match between the propeller, engine type and boat size will optimize the following performance factors — increased top end, faster planing speed, improved low end punch and load carrying capability.

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.

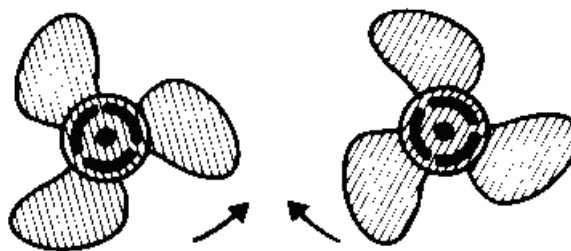
We recommend 4-blade propellers for bass boats and boats with high performance hulls running high horsepower outboard engines. Compared to 3 blades, they provide better "hole shot" performance with less steering torque and less vibration at high speeds.



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

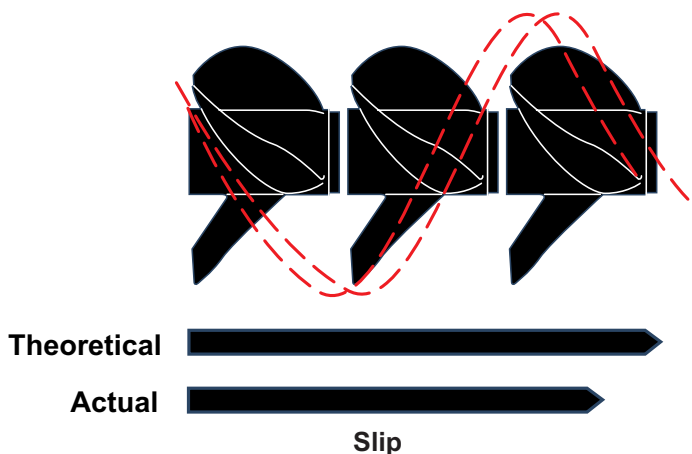
Two propellers spinning the same direction on twin engine boats will create steering torque. In other words, two right-hand propellers pull the stern hard to the right and the bow to the left.

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.



## 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.

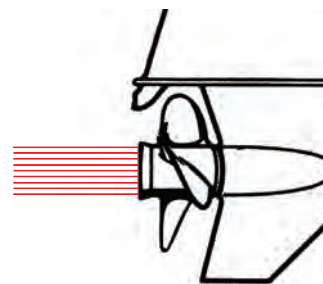
**Over/Thru-hub exhaust propellers** are a combination of thru-hub and over-hub exhaust propellers. This allows some exhaust to escape at lower RPMs, providing a controlled amount of exhaust flooding. These types of propellers will allow the propeller to be slightly easier to turn during initial acceleration,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

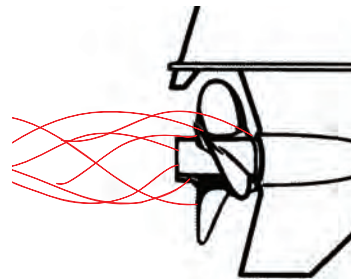
## Aluminum vs. Stainless Steel?

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.

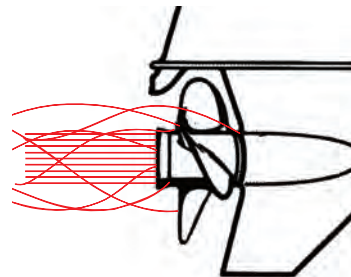
Stainless steel is more expensive, but much stronger and durable than aluminum. If you are looking for better performance than can be provided by your aluminum propeller, such as ultimate top speed or better acceleration, a stainless steel propeller may be required.



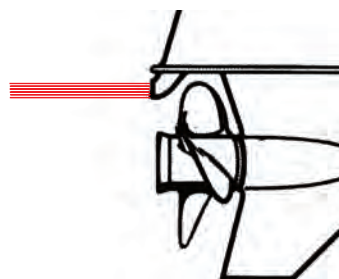
**THRU-HUB EXHAUST PROPELLERS**



**OVER-HUB EXHAUST PROPELLERS**



**OVER/THRU-HUB EXHAUST PROPELLERS**



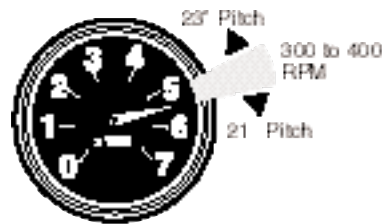
**NON THRU-HUB EXHAUST PROPELLERS**

## 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

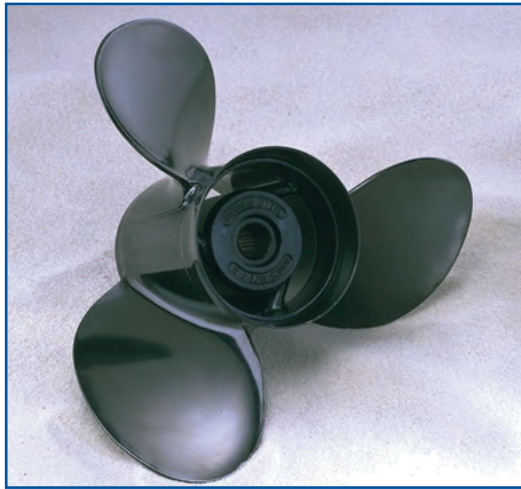
If the actual WOT RPM range is below the recommended range, install the next smaller pitch propeller to increase your WOT RPM. Re-test the WOT RPM.



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



# The perfect replacement prop for your boat!



Your Michigan Match propeller will probably look much like the prop you're replacing. But only on the surface. Underneath, we use only the highest-grade metals — high quality aluminum and tough 15-5 stainless steel alloy. The tighter grain and compact molecular structure of the metal in Michigan Match props make them far less brittle, far less likely to break than original equipment motor manufacturer (OEM) props. It also makes them easily repairable by a qualified repair facility.

## We've been making replacement props longer than some OEMs have been making motors.

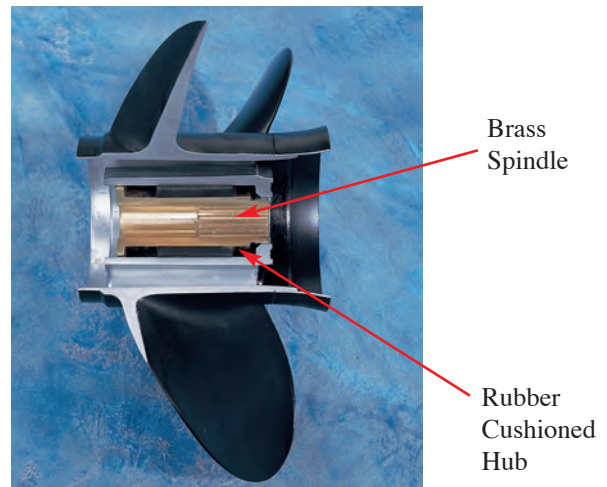
We've been making props for almost 100 years, longer than some OEMs have been making motors. Thousands of dealers across the country and around the world sell Michigan Wheel props, offering unrivaled inventory of replacement stock, ready for immediate delivery. Every prop is thoroughly inspected to make certain it meets rigid quality standards. Michigan Wheel's commitment to quality and performance is the reason more boat owners pick a Michigan Wheel replacement propeller than all other brands combined.



## Your Michigan Match prop is designed to protect your motor.

Michigan Match props are designed to take a beating. But they're also designed to make sure that beating isn't transferred to your prop shaft, motor or gearbox. Every Michigan Match prop features a NAVAL brass spindle with rubber cushioned hub which absorbs impact and the stress caused by shifting gears. The rubber bushing is designed to spin free under significant impact, reducing the potential for lower unit damage.

Cutaway of Propeller and Bushing Assembly





# This is Rapture.™

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

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

**Cushioned rubber hub,** mounted in a ribbed cavity, provides maximum bushing grip and protects your shaft, motor and gearbox from damage caused by impact to the prop.

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

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

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

**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.

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

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

**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.**

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

**Precision balanced blades** significantly reduce vibration.



Max-Performance

# Advantages That Make A Difference.

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

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

High luster mirror finish adds appeal and enhances corrosion resistance

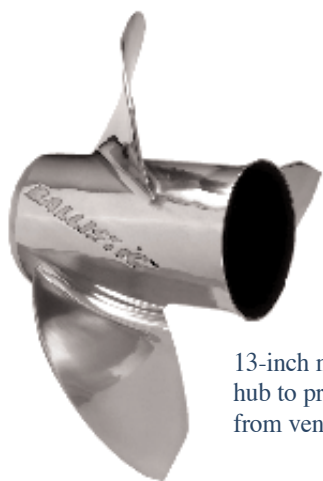
One-piece investment cast construction from 15-5ph stainless steel, the ideal material for strength and corrosion resistance

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

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

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

4 BLADE - AMBUSH4



The quality of any product begins with the materials that go into it. While some manufacturer's skimp by using lower grade metal, Michigan Wheel Corporation uses only the finest grade alloys.

**Ambush™4** is a four blade Nibral propeller made for the ski/tow boat enthusiast. With its smooth, polish bronze appearance, and advanced manufacturing process, Michigan Wheel is able to produce a very consistent cup and blade geometry which results in a very smooth performing propeller. Because of this new and improved process and leading edge geometry, **Ambush™4** will provide extra strength, less flex, durability and consistent performance and efficiency.

Dia. x Pitch	Rot.	Bore	Ambush Part No.
13 x 13	LH	1"	<b>635101</b>
13 x 13	LH	1-1/8"	<b>635103</b>
13 x 16	RH	1"	<b>635300</b>
13 x 16	RH	1-1/8"	<b>635302</b>
14 x 18	RH	1"	<b>635400</b>
14 x 18	LH	1"	<b>635401</b>
14 x 18	RH	1-1/8"	<b>635402</b>
14 x 18	LH	1-1/8"	<b>635403</b>
14 x 18	RH	1-1/4"	<b>635404</b>
14 x 18	LH	1-1/4"	<b>635405</b>

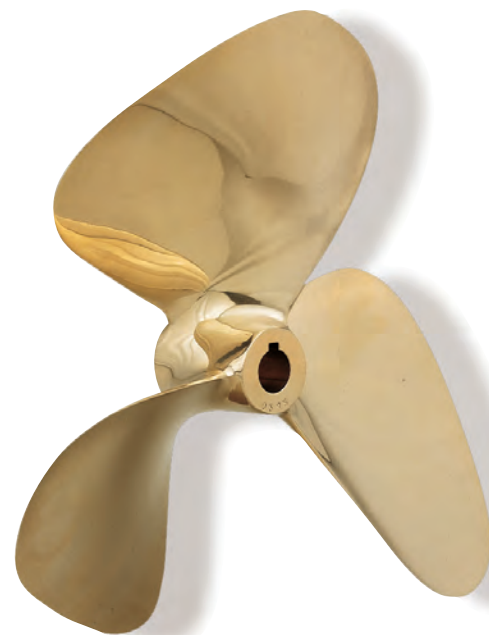
3 BLADE DYNA-JET CUPPED

Michigan Wheel Corporation's Federal Series ski boat propellers provide consistent response to your throttle commands. These 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.

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

1 All styles are Dyna Jet Cup

1 Dynamic Balancing





# MICHIGAN WHEEL ALPHA NUMERIC CROSS REFERENCE

Use the Alpha Numeric section to cross reference an older Michigan Wheel part number that has been renamed.

If you simply want to make a direct switch from your existing prop (OMC, Mercury, Force, Suzuki, Honda, Nissan/Tohatsu, or Yamaha) to a new Michigan Propeller, save time by referring directly to the OEM Cross Reference Charts on pages 10-20. These charts help you quickly specify a new propeller without calculating factors for a performance modification. You need to identify which prop(s) you currently have - locate the number stamped into the existing prop (refer to the boat or engine owner's manual, or ask your dealer).

Alpha Numeric	Numeric	Pages(s)	Alpha Numeric	Numeric	Pages(s)	Alpha Numeric	Numeric	Pages(s)	Alpha Numeric	Numeric	Pages(s)
AM431	012067	22	PJ 59	012037	24	PM315-C	031041	29,30,33,36,43	SMC292	082022	49
AMC308	072014	27,28	PJ 60	012038	24	PM317-C	031042	29,30,33,36,43	SMC293	082021	49
AMC310	072131	28	PJ 61	012039	24	PM319-C	031043	29,30,33,36,43	SMC295	082023	49
AMC314	072133	28	PJ 62	012040	24	PM321-C	031044	29,30,33,36,43	SMC348	082033	49
AMC316	072134	28	PJ 74	012042	25,48	PM323-C	031045	29,30,33,36,43	SMC349	082034	49
AMC394	072132	28	PJ 75	012043	25,48	PM513	032039	30,32,42,39	SMC374-C	031035	45
AMC422	012068	22	PJ 76	012044	25,48	PM515	032040	30,32,42,39	SMC376-C	031036	45
AMC490	152002	27	PJ 77	012045	25,48	PM518	032041	30,32,42,39	SMC378-C	031037	45
AMC580-S	032077	31	PJ 83-C	011005	25,26,47,48	PM521	032042	30,32,42,39	SMC380-C	031038	45
DQ320	012074	25,26	PJ 87	012047	25,26,47,48	PM524	032043	30,32,42,39	SMC382-C	031039	45
DQ328	012075	25,26	PJ 88-C	011001	25,26,47,48	PM527	032044	30,32,42,39	SMC504-C	031034	45
EWX19	012076	23,30	PJ 89-C	011002	25,26,47,48	PM530	032045	30,32,42,39	SMC921	082045	50
G 20	072017	27	PJ 90-C	011003	25,26,47,48	PM600-C	031015	28,32,36	SMC980	082057	50
G 30	152014	27	PJ 91-C	011004	25,26,47,48	PM612-C	031016	28,32,36	SPC180	072107	28
NP 74	302001	25,48	PJ 94	012053	23	PM613-C	031017	28,32,36	SPC182	072108	28
PC 12	072024	27	PJ 95	012054	23	PM614-C	031018	28,32,36	SPC184	072109	28
PC 20	072026	27	PJ 96	012055	23	PM615-C	031019	28,32,36	SSC315-C	073002	28
PC 32	072121	27	PJ 97	012056	23	PM617-C	031020	28,32,36	SSC317-C	073003	28
PC 28	072122	27	PJ 98	012057	23	PR 33	032084	32,35	SSC319-C	073004	28
PC112	072123	27	PJ199-C	011015	26,47	PR 35	032085	32,35	SSM212-C	033001	28,32,36
PJ 3	012001	22	PJ200-C	011016	26,47,48	PR 37	032086	32,35	SSM245-C	033002	34,37,43,44
PJ 7	012004	22	PJ201-C	011006	26,47,48	PR 39	032087	32,35	SSM247-C	033003	34,37,43,44
PJ 8	012005	22	PJ202-C	011007	26,47,48	PR 78	072032	28	SSM249-C	033004	34,37,43,44
PJ 9	012006	22,30	PJ203-C	011008	26,47,48	PR 80	072033	28	SSM251-C	033005	34,37,43,44
PJ 10	012007	22	PJ204-C	011009	26,47,48	PR 82	072034	28	SSM253-C	033006	34,37,43,44
PJ 11	012008	22,35,41	PJ205-C	011010	26,47,48	PR115	012089	25,48	SSM350-C	033007	45
PJ 15	012010	23,30,35,41	PJ300	012060	22	PR118	012090	25,48	SSM354-C	033008	45
PJ 16	012011	23,30,35,41	PM 8	032014	31	PR120	012091	48	SSM358-C	033009	45
PJ 18	012013	23,30,35,41	PM 19	032019	31	PR122	012092	48	SSM615-C	033016	29,30,33,36,43
PJ 19	012109	23,30	PM 20	032020	31	PR124	012093	48	SSM617-C	033017	29,30,33,36,43
PJ 21	012014	23,30	PM 21	032021	31	PR126	012094	48	SSM619-C	033018	29,30,33,36,43
PJ 22	012015	23	PM 22-C	031047	27,31,35	PR151	032089	33,45	SSM621-C	033019	29,30,33,36,43
PJ 24	012016	23	PM 23-C	031048	27,31,35	PR153	032090	33,45	SSO315-C	013010	24
PJ 29	012021	23	PM 24-C	031049	27,31,35	PR155	032091	33,45	SSV171-C	083001	49
PJ 30	012022	24	PM 39	022001	35,42	PR155-C	031001	33	SSV172-C	083002	49
PJ 31	012023	24	PM 40	022002	35,42	PR157	032092	33,45	SSV191-C	083003	49
PJ 32	012024	24	PM 42	022003	35,42	PR157-C	031002	33	SSV192-C	083004	49
PJ 35	012025	24	PM211-C	031021	34,37,43,44	PR159	032093	33,45	SSV211-C	083005	49
PJ 40	012026	24	PM213-C	031022	34,37,43,44	PR159-C	031003	33	SSV212-C	083006	49
PJ 41	012027	24	PM215-C	031023	34,37,43,44	PR161	032094	33,45	SSY615-C	103025	42
PJ 42	012028	24	PM217-C	031024	34,37,43,44	PR161-C	031004	33	SSY617-C	103026	42
PJ 45	012030	23	PM219-C	031025	34,37,43,44	PR276	072054	28	SSY619-C	103027	42
PJ 47	012031	22	PM221-C	031026	34,37,43,44	PR278	072055	28	SSY717-C	103018	43,50
PJ 49	012032	22	PM223-C	031027	34,37,43,44	PR339	032099	32	SSY719-C	103020	43,50
PJ 50	012033	24,29	PM311-C	031054	29,30,33,36,43	SMC 18	012101	22,35,41	SSY721-C	103022	43,50
PJ 58	012036	24	PM313-C	031055	29,30,33,36,43	SMC 39	012102	23,30,35,41			

# MICHIGAN WHEEL CORPORATION CROSS REFERENCE

Original Equipment Manufacturer Part# & Trade Mark	Michigan Wheel Corporation			Original Equipment Manufacturer Part# & Trade Mark	Michigan Wheel Corporation			Original Equipment Manufacturer Part# & Trade Mark	Michigan Wheel Corporation		
	Nearest Match	Rapture Stainless	Catalog Pages #'s		Nearest Match	Rapture Stainless	Catalog Pages #'s		Nearest Match	Rapture Stainless	Catalog Pages #'s
<b>Evinrude, Johnson, OMC</b>				176422	011028	013083	24	176625	VIPER™	013079	25,26,47,48
174811	VIPER™(LH)	013069	26,47,48	176423	011029	013084	24	176626	Swept-Blade™	013066	26,47,48
174812	VIPER™(LH)	013071	26,47,48	176572	013077	25,26,47,48		176627	Swept-Blade™	013068	26,47,48
174813	VIPER™(LH)	013073	26,47,48	176573	SST II®	013078	25,26,47,48	176628	Swept-Blade™	013070	26,47,48
174814	VIPER™	013068	26,47,48	176574	SST II®	013079	25,26,47,48	176629	Swept-Blade™(LH)	013067	26,47,48
174815	VIPER™	013070	26,47,48	176575	Renegade™ O.S.(RH)	013066	26,47,48	176630	Swept-Blade™(LH)	013069	26,47,48
174816	VIPER™	013072	26,47,48	176576	Renegade™ O.S.(RH)	013068	26,47,48	176902	Swept-Blade™(LH)	013071	26,47,48
174889	VIPER™	013066	26,47,48	176577	Renegade™ O.S.(RH)	013070	26,47,48	176969	SST®	013068	26,47,48
174890	VIPER™(LH)	013067	26,47,48	176578	Renegade™ O.S.(LH)	013067	26,47,48	176970	SST®	013068	26,47,48
174926	SST II®	013052	013064	176579	Renegade™ O.S.(LH)	013069	26,47,48	176971	SST®	013070	26,47,48
174927	SST II®(LH)	013051	013065	176580	Renegade™ O.S.(LH)	013071	26,47,48	176973	SST®(LH)	013067	26,47,48
174950		012111	23	176615	Swept-Blade™	013066	26,47,48	176999	Renegade™ O.S.(RH)	013072	26,47,48
175190		012055	23	176616	Swept-Blade™(LH)	013067	26,47,48	177000	Renegade™ O.S.(LH)	013073	26,47,48
175191		012056	23	176617	Swept-Blade™	013068	26,47,48	177034	SST®	013064	26,47,48
176196	Renegade™ Bass	013079	25,26,47,48	176618	Swept-Blade™(LH)	013069	26,47,48	177035	SST®	013066	26,47,48
176214		011024	013077	176619	Swept-Blade™	013070	26,47,48	177042	VIPER™	013076	25,26,47,48
176215		011025	013078	176620	Swept-Blade™(LH)	013071	26,47,48	178811	VIPER™(LH)	013069	26,47,48
176216		011026	013079	176623	VIPER™	013077	25,26,47,48	178814	VIPER™	013068	26,47,48
176421		011027	013082	176624	VIPER™	013078	25,26,47,48	203120		012001	22

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Original Equipment Manufacturer Part# & Trade Mark	Michigan Wheel Corporation			Original Equipment Manufacturer Part# & Trade Mark	Michigan Wheel Corporation			Original Equipment Manufacturer Part# & Trade Mark	Michigan Wheel Corporation									
	Nearest Match	Rapture Stainless	Catalog Pages #'s		Nearest Match	Rapture Stainless	Catalog Pages #'s		Nearest Match	Rapture Stainless	Catalog Pages #'s							
<b>Evinrude, Johnson, OMC (Continued)</b>				386637	.....	.012055	.....	23	394760	...	.Raker®	.....	.013079	25,26,47,34				
203682	.....	.012001	.....	22	386669	.....	.012113	.....	23	398126	.....	.012112	.....	23				
203919	.....	.012001	.....	22	386786	.....	.012038	.013082	24	398502	...	.Raker® (LH)	.....	.013069	26,47,34			
204347	.....	.012001	.....	22	386841	.....	.012039	.013083	24	398503	...	.Raker® (LH)	.....	.013071	26,47,34			
277212	.....	.012076	.....	23	386907	.....	.012036	.013080	24	398504	...	.Raker® (LH)	.....	.013073	26,47,34			
277440	.....	.012060	.....	22	386908	.....	.012040	.013084	24	398505	...	.Raker® (LH)	.....	.013075	26,47,34			
277443	.....	.012076	.....	23	386909	.....	.012037	.013081	24	431717	...	.SHOOTER®	.....	.013036	26			
277580	.....	.012024	.....	24	386933	.....	.012056	.....	23	431718	...	.SHOOTER®	.....	.013038	26			
277581	.....	.012024	.....	24	386955	.....	.012005	.....	22	431719	...	.SHOOTER®	.....	.013040	26			
277583	.....	.012076	.....	23	386980	...	.SST®	.....	.013026	.013083	24	431930	...	.SST II® (LH)	.....	.013043	.013067	26,47,34
277595	.....	.012006	.....	22	386981	...	.SST®	.....	.013010	.013082	24	591389	.....	.012060	.....	22		
277599	.....	.012011	.....	23	386982	...	.SST®	.....	.013024	.013081	24	591920	.....	.012024	.....	24		
277617	.....	.012028	.....	24	387158	.....	.011016	.....	26,47,48		591925	.....	.012076	.....	23			
277759	.....	.012008	.....	22	387159	.....	.011006	.013064	26,47,48		591978	.....	.012060	.....	22			
277896	.....	.012033	.....	24	387160	.....	.011007	.013066	26,47,48		592038	.....	.012076	.....	23			
278155	.....	.012033	.....	24	387161	.....	.011008	.013068	26,47,48		592063	.....	.012060	.....	22			
278194	.....	.012026	.....	24	387162	.....	.011009	.013070	26,47,48		592959	.....	.012076	.....	23			
375605	.....	.012109	.....	23	387163	.....	.011010	.013072	26,47,48		3850299	.....	.161001	.163012	50			
376072	.....	.012060	.....	22	387320	...	.SST II®	.....	.012053	.....	23	3850300	.....	.161002	.163014	50		
376506	.....	.012076	.....	23	387334	.....	.012008	.....	22		3850301	.....	.161003	.163016	50			
376732	.....	.012024	.....	24	387519	...	.SST®	.....	.013046	.013068	26,47,48	3850302	.....	.161004	.163018	50		
376735	.....	.012109	.....	23	387520	...	.SST®	.....	.013048	.013070	26,47,48	3850305	.....	.163002	.163012	50		
376737	.....	.012076	.....	23	387636	.....	.012056	.....	23		3850307	.....	.163004	.163014	50			
376738	.....	.012027	.....	24,48	388088	.....	.012013	.....	23		3850308	.....	.163006	.163016	50			
376777	.....	.012060	.....	22	388294	.....	.012102	.....	23		3850309	.....	.163008	.163018	50			
376805	.....	.012011	.....	23	388883	.....	.012016	.....	23		3850310	.....	.163010	.163020	50			
376841	.....	.012109	.....	23	389019	...	.SST II®	.....	.013050	.013072	26,47,48	3850311	...	.VIPER™	.....	.163014	50	
376917	.....	.012028	.....	24	389029	...	.SST®	.....	.013032	.013084	24	3850312	...	.VIPER™	.....	.163016	50	
376968	.....	.012060	.....	22	389068	.....	.012021	.....	23		3850313	...	.VIPER™	.....	.163018	50		
377410	.....	.012023	.....	24	389069	.....	.012015	.....	23		3850314	...	.VIPER™	.....	.163020	50		
377632	.....	.012060	.....	22	389510	...	.SST II®	.....	.013033	.013078	25,26,47,48	3850315	...	(LH)	.....	.163013	50	
377635	.....	.012007	.....	22	389512	...	.SST II®	.....	.013034	.013079	25,26,47,48	3850316	...	(LH)	.....	.163003	.163015	50
377636	.....	.012011	.....	23	389619	.....	.012015	.....	23		3850317	...	(LH)	.....	.163005	.163017	50	
377978	.....	.012044	.....	25,48	389627	.....	.012101	.....	22		3850318	...	(LH)	.....	.163007	.163019	50	
378039	.....	.012045	.....	25,48	389788	.....	.011005	.013079	25,26,47,48		3850319	...	(LH)	.....	.163009	.163021	50	
378040	.....	.012043	.....	25,48	389855	.....	.012023	.....	24		3850320	...	.VIPER™ (LH)	.....	.163015	50		
378571	.....	.012026	.....	24	389923	...	.SST II®	.....	.013048	.013070	26,47,48	3850321	...	.VIPER™ (LH)	.....	.163017	50	
378579	.....	.012025	.....	24	389924	...	.SST II®	.....	.013046	.013068	26,47,48	3850322	...	.VIPER™ (LH)	.....	.163019	50	
378580	.....	.012022	.....	24	389944	.....	.012030	.....	23		3850323	...	.VIPER™ (LH)	.....	.163021	50		
378581	.....	.012023	.....	24	389948	...	.SST II®	.....	.013030	.013077	25,26,47,48	3855142	...	.Raker®	.....	.163016	50	
379260	.....	.012042	.....	25,48	389949	...	.SST II®	.....	.013028	.013076	25,26,47,48	3855144	...	.Raker®	.....	.163018	50	
379717	.....	.012109	.....	23	390113	...	.SST®	.....	.013033	.013078	25,26,47,48	3855146	...	.Raker®	.....	.163020	50	
380104	.....	.012004	.....	22	390114	...	.SST®	.....	.013030	.013077	25,26,47,48	3855148	...	.Raker®	.....	.163022	50	
380637	.....	.012024	.....	24	390237	.....	.012032	.....	22		3855152	...	.Raker® (LH)	.....	.163017	50		
380958	.....	.012005	.....	22	390380	.....	.012057	.....	23		3855154	...	.Raker® (LH)	.....	.163019	50		
381185	.....	.012091	.....	48	390821	...	.SST II® (LH)	.....	.013045	.013069	26,47,48	3855156	...	.Raker® (LH)	.....	.163021	50	
381186	.....	.012092	.....	48	390822	...	.SST II® (LH)	.....	.013047	.013071	26,47,48	3855158	...	.Raker® (LH)	.....	.163023	50	
381187	.....	.012093	.....	48	390823	...	.SST II® (LH)	.....	.....	.013073	26,47,48	3858026	...	.VIPER™ (RH)	.....	.103046	50	
381446	.....	.012044	.....	25,48	390830	.....	.012031	.....	22		3858027	...	.VIPER™ (RH)	.....	.103048	50		
381801	.....	.012011	.....	23	390833	.....	.012024	.....	24		3858028	...	.VIPER™ (RH)	.....	.103050	50		
382017	.....	.012090	.....	25,48	390849	...	.SST®	.....	.013024	.013081	24	3858029	...	.VIPER™ (LH)	.....	.103047	50	
382676	.....	.012089	.....	25,48	390850	...	.SST®	.....	.013010	.013082	24	3858030	...	.VIPER™ (LH)	.....	.103049	50	
382761	.....	.012047	.....	25,26,47,48	390851	...	.SST®	.....	.013026	.013083	24	3858031	...	.VIPER™ (LH)	.....	.103051	50	
382762	.....	.011001	.....	25,26,47,48	390852	...	.SST®	.....	.013032	.013084	24	<b>Force, US Marine, Chrysler</b>						
382763	.....	.011002	.013076	25,26,47,48	390896	.....	.011004	.013078	25,26,47,48		48-16986A 5	...	.QSS™	.....	.033016	.033084	29	
382764	.....	.011003	.013077	25,26,47,48	391096	.....	.012031	.....	22		48-16986A45	...	.Vengeance	.....	.033016	.033084	29	
382765	.....	.011004	.013078	25,26,47,48	391198	.....	.011002	.013076	25,26,47,48		48-16988A40	...	.QSS™	.....	.033017	.033085	29	
382766	.....	.011005	.013079	25,26,47,48	391199	.....	.011003	.013077	25,26,47,48		48-16988A45	...	.Vengeance	.....	.033017	.033085	29	
393160	.....	.011025	.013078	25,26,47,48	391200	.....	.011007	.013066	26,47,48		48-16990A40	...	.QSS™	.....	.033018	.033086	29	
383287	.....	.012094	.....	48	391201	.....	.011008	.013068	26,47,48		48-16990A45	...	.Laser II	.....	.033018	.033086	29	
383315	.....	.012008	.....	22	391202	.....	.011009	.013070	26,47,48		48-16992A40	...	.QSS™	.....	.033019	.033087	29	
383629	.....	.012011	.....	23	391203	.....	.011010	.013072	26,47,48		48-16992A45	...	.Laser II	.....	.033019	.033087	29	
384139	...	.SST®	.....	.013030	.013077	25,26,47,48	391290	...	.SST II®	.....	.013044	.013066	26,47,48					
384140	.....	.011005	.013079	25,26,47,48	391534	.....	.012101	.....	22		48-19638A40	...	.Black Max™	.....	.031049	.....	27	
384141	...	.SST®	.....	.013034	.013079	25,26,47,48	391535	.....	.011006	.013064	26,47,48	48-19640A40	...	.Black Max™	.....	.031048	.....	27
384142	...	.SST®	.....	.013033	.013078	25,26,47,48	391536	.....	.011016	.....	26,47,48	48-19642A40	...	.Black Max™	.....	.031047	.....	27
384144	...	.SST®	.....	.013028	.013076	25,26,47,48	391668	.....	.011001	.....	25,26,47,34	48-42738A10	...	.Black Max™	.....	.032141	.....	28
384460	.....	.012028	.....	24	394752	...	.Raker®	.....	.....	.013066	26,47,34	48-42740A10	...	.Black Max™	.....	.032142	.....	28
384702	...	.SST®	.....	.013034	.013079	25,26,47,48	394753	...	.Raker®	.....	.013068	26,47,34	48-64724A 1	.....	.....	.031020	.....	28
385319	.....	.012005	.....															

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		Nearest Match	Rapture Stainless	Catalog Pages #'s			Nearest Match	Rapture Stainless	Catalog Pages #'s			Nearest Match	Rapture Stainless	Catalog Pages #'s
<b>Force, US Marine, Chrysler (Continued)</b>														
48-73136A40 .Black Max™	031017	.033090	28	FP328	.072014		27,28	TS1122	. . . . .Lightspeed		.033087	29		
48-73138A 4	.031018	.033091	28	FP330	.072026		27	TS1164T	. . . . .Silverado	.033001	.033089	28		
48-73138A40 .Black Max™	031018	.033091	28	FP366	.072014		27,28	TS1166T	. . . . .Silverado		.033090	28		
48-73140A 4	.031019	.033092	28	FP372	.072033		27	TS1168T	. . . . .Silverado	.033028	.033091	28		
48-73140A40 .Black Max™	031019	.033092	28	FP378	.072132		28	<b>Honda</b>						
48-73144A 4	.031020		28	FP383	.072034		27	58110-ZV4-300		.102005		30		
48-73144A40 .Black Max™	031020		28	FP389	.072032		27	58110-ZV4-DT15		.112004		30		
48-76228A 4 .QSS™		.033090	28	FP395	. . . . .Black Max™	.072121	27	58110-ZV5-E00			.033097	30		
48-76228A 5 .Vengeance		.033090	28	FP408		.072026	27	58110-ZV5-E10			.033096	30		
48-76230A 4 .QSS™		.033091	28	FP472	. . . . .Black Max™	.072122	27	58110-ZV5-E20			.033095	30		
48-76230A 5 .Vengeance		.033028 .033091	28	FP501		.072054	28	58110-ZV5-E30			.033094	30		
48-76232A 4 .QSS™		.033092	28	FP509		.073008	29	58130-881-840ZA		.012109		30		
48-76232A 5 .Vengeance		.033092	28	FP510		.073004	28	58130-881-840ZB		.012109		30		
48-77338A40	.031054		29	FP511		.073010	29	58130-935-000N		.012109		30		
48-77338A45 .Black Max™	031054		29	FP519		.072055	28	58130-935-600N		.012109		30		
48-77340A40	.031055		29	FP523		.072107	28	58130-ZV4-000ZA		.102005		30		
48-77340A45 .Black Max™	031055		29	FP524		.072108	28	58130-ZV4-010ZA		.102005		30		
48-77342A40	.031041	.033084	29	FP526		.072109	28	58130-ZV4-020ZA		.102005		30		
48-77342A45 .Black Max™	031041	.033084	29	FP539		.073003	28	58130-ZV4-030ZA		.102005		30		
48-77344A40	.031042	.033085	29	FP540		.073004	28	58130-ZV4-030ZB		.102005		30		
48-77344A45 .Black Max™	031042	.033085	29	FP623		.072107	28	58130-ZV4-700ZA		.102004		30		
48-77350A45 .Black Max™	031045		29	FP654		.072108	28	58130-ZV4-701ZA		.102004		30		
48-77346A40	.031043	.033086	29	FP664		.073007	29	58130-ZV4-702ZA		.102004		30		
48-77346A45 .Black Max™	031043	.033086	29	FP665		.071035	29	58130-ZV4-703ZA		.102004		30		
48-77348A40	.031044	.033087	29	FP668		.073008	29	58130-ZV4-703ZB		.102004		30		
48-77348A45 .Black Max™	031044	.033087	29	FP669		.071035	29	58130-ZV5-000ZA		.032042	.033095	30		
48-77350A40	.031045		29	FP669-1		.071035	29	58130-ZV5-850ZA		.032043	.033094	30		
48-77350A45 .Black Max™	031045		29	FP682		.072127	29	58130-ZV5-860ZA		.032045	.033093	30		
48-79792A 4 .QSS™		.033001 .033089	28	FP685		.072128	29	58130-ZV5-870ZA		.032040	.033097	30		
48-79792A 5 .Vengeance		.033001 .033089	28	FP685-1		.072128	29	58130-ZW1-V01		.033017	.033085	30		
48-816702A40	.031056	.033089	28	FP686		.072129	29	58130-ZW1-V11		.033018	.033086	30		
48-816704A40	.031057	.033090	28	FP686-1		.071037	29	58130-ZW1-V31		.033019	.033087	30		
48-816706A40	.031058	.033091	28	FP686-2		.072129	29	58130-ZW1-W01ZA		.031054		30		
48-819334A40	.072133		28	FP692		.072127	29	58130-ZW1-W11ZA		.031055		30		
48-819335A40	.072132		28	FP692-1		.072127	29	58130-ZW1-W21ZA		.031041	.033084	30		
48-819336A40	.072131		28	FP694		.071038	29	58130-ZW1-W31ZA		.031042	.033085	30		
48-819337A40	.072014		27,28	FP695		.073009	29	58130-ZW1-W41ZA		.031044	.033087	30		
48-819337A45	.072014		27,28	FP696		.073010	29	58130-ZW1-W51ZA		.031045		30		
48-85632A40 .Black Max™	031053		28	FP699		.073007	29	58130-ZW1-W61ZA		.031043	.033086	30		
48-855858A5 .Vengeance	.031057	.033090	28	FPM736		.031020	28	58130-ZW1-W91		.033016	.033084	30		
48-FP19	.072017		27	FPM738		.031019	.033092	58133-ZV5-010AH			.033093	30		
48-FP372	.072033		27	FPM752	.QSS™	.033028	.033091	58133-ZV5-012AH			.033094	30		
48-FP488	. . . . .Black Max™	.072123	27	FPM754	.QSS™	.033001	.033089	58133-ZV5-013AH			.033095	30		
48-FP6430 .Black Max™	.072026		27	FPM756		.031015	.033088	58133-ZV5-014AH			.033096	30		
48-FP669-1	.071035		29	FPS501		.072054	28	58133-ZV5-015AH			.033096	30		
48-FP669-2	.071035		29	FPS509		.073008	29	58133-ZW1-A15AH			.033084	30		
48-FP669-3	.071035		29	FPS510		.073004	28	58133-ZW1-A17AH			.033085	30		
48-FP685-1	.071036		29	FPS511		.073010	29	58133-ZW1-A19AH			.033086	30		
48-FP685-2	.071036		29	FPS519		.072055	28	08M60-ZW7-A00			.033084	30		
48-FP685-3	.071036		29	FPS523		.072107	28	08M60-ZW7-A10			.033085	30		
48-FP686-1	.071037		29	FPS524		.072108	28	08M60-ZW7-A20			.033086	30		
48-FP686-2	.071037		29	FPS526		.072109	28	08M60-ZW7-A30			.033087	30		
48-FP686-3	.071037		29	FPS623		.072107	28	<b>Mercury, Mariner, Mercruiser</b>						
48-FP686-4	.071037		29	FPS625		.072108	28	48-11070A40Laser™			.033078	34,37,44,45		
48-FP692-1	.072127		29	FPS626		.072109	28	48-11074A40Laser™			.033080	34,37,44,45		
48-FP692-2	.072127		29	FPS654		.072108	28	48-11320A40		.031050	.033072	34,37,44		
48-FP692-3	.072127		29	FPS686		.072129	29	48-11322A40		.031051	.033074	34,37,44		
48-FP694	.071038		29	FSS01265		.072054	28	48-11324A40		.031052	.033076	34,37,44		
48-FP70	. . . . .Black Max™	.072024	27	TA2034	. . . . .Black Diamond	.031041	.033084	48-11324A45 .Black Max™		031052	.033076	34,37,44		
FA282265	.072132		28	TA2036	. . . . .Black Diamond	.031042	.033085	48-13242A 5 .Mirage®			.033052	46		
FA287265	.072131		28	TA2038	. . . . .Black Diamond	.031043	.033086	48-13242A 50 .Mirage®			.033052	46		
FA378265	.072132		28	TA2040	. . . . .Black Diamond	.031044	.033087	48-13243A 5 .Mirage®(LH)			.033053	46		
FP273	.072133		28	TA2060T	. . . . .Black Diamond	.032141		48-13243A 50 .Mirage®(LH)			.033053	46		
FP274	.072014		27,28	TA2064T	. . . . .Black Diamond	.031015	.033088	48-13244A 5 .Mirage®			.033054	46		
FP276	.072014		27,28	TA2070T	. . . . .Black Diamond	.031053		48-13244A 50 .Mirage®			.033054	46		
FP277	.072131		28	TA2072T	. . . . .Black Diamond	.031053		48-13245A 5 .Mirage®(LH)			.033055	46		
FP278	.072014		27,28	TA2076T	. . . . .Black Diamond	.031057	.033090	48-13245A 50 .Mirage®(LH)			.033055	46		
FP282	.072132		28	TA2080T	. . . . .Black Diamond	.031058	.033091	48-13246A 5 .Mirage®			.033056	46		
FP286	.072026		27	TA2084T	. . . . .Black Diamond	.031019	.033092	48-13246A 50 .Mirage®			.033056	46		
FP287	.072131		28	TA2102T	. . . . .Black Diamond	.031049		48-13247A 5 .Mirage®(LH)			.033057	46		
FP293	.072132		28	TA2106T	. . . . .Black Diamond	.031048		48-13247A 50 .Mirage®(LH)			.033057	46		
FP319	.072121		27	TS1116	. . . . .Silverado	.033016	.033084	48-13248A 5 .Mirage®			.033058	46		
FP324	.152002		27	TS1118	. . . . .Silverado	.033017	.033085	48-13248A 50 .Mirage®			.033058	46		
FP327	.072121		27	TS1120	. . . . .Lightspeed		.033086	48-13700A40 .Mirage®			.033030	34,37,46		



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48-13700A45 .Mirage®Plus	.....	.033030		34,37,46	48-16543A40 .Laser II™(LH)	.....	.033077	34,37,44,45	48-32392A 4	.....	.032091		33,45	
48-13700A46 .Mirage®(LH)	.....	.033052		46	48-16543A41 .Laser II™(LH)	.....	.033077	34,37,44,45	48-32746A 3	.....	.032094	.033086	33,45	
48-13700A55 .Mirage®Plus	.....	.033052		46	48-16543A45 .Laser II™(LH)	.....	.033077	34,37,44,45	48-32746A 4	.....	.031004	.033087	33	
48-13701A40 .Mirage®(LH)	.....	.033029		34,37,46	48-16544A40 .Laser II™	.....	.033076	34,37,44,45	48-32748A 3	.....	.032093	.033085	33,45	
48-13701A41 .Mirage®(LH)	.....	.033029		34,37,46	48-16544A41 .Laser II™	.....	.033076	34,37,44,45	48-32748A 4	.....	.031003	.033086	33	
48-13701A45 .Mirage®Plus(LH)	.....	.033029		34,37,46	48-16544A45 .Laser II™	.....	.033076	34,37,44,45	48-32750A 3	.....	.032093	.033085	33,45	
48-13702A40 .Mirage®	.....	.033032		34,37,46	48-16544A46 .Laser II™	.....	.033076	34,37,44,45	48-32750A 4	.....	.031003	.033086	33	
48-13702A41 .Mirage®	.....	.033032		34,37,46	48-16545A40 .Laser II™(LH)	.....	.033079	34,37,44,45	48-33480A 1	.....	.032135		31	
48-13702A45 .Mirage®Plus	.....	.033032		34,37,46	48-16545A41 .Laser II™(LH)	.....	.033079	34,37,44,45	48-33482A 1	.....	.032136		31	
48-13702A46 .Mirage®Plus	.....	.033032		34,37,46	48-16545A45 .Laser II™(LH)	.....	.033079	34,37,44,45	48-33772A 1	.....	.032084		32,35	
48-13702A55 .Mirage®Plus	.....	.033054		46	48-16546A40 .Laser II™	.....	.033078	34,37,44,45	48-33772A 4	.....	.032084		32,35	
48-13703A40 .Mirage®(LH)	.....	.033031		34,37,46	48-16546A41 .Laser II™	.....	.033078	34,37,44,45	48-33774A 1	.....	.032084		32,35	
48-13703A41 .Mirage®(LH)	.....	.033031		34,37,46	48-16546A45 .Laser II™	.....	.033078	34,37,44,45	48-33774A 4	.....	.032084		32,35	
48-13703A45 .Mirage®Plus(LH)	.....	.033031		34,37,46	48-16547A40 .Laser II™(LH)	.....	.033081	34,37,44,45	48-35936A 3	.....	.032090		124,45	
48-13703A55 .Mirage®Plus(LH)	.....	.033053		46	48-16547A41 .Laser II™(LH)	.....	.033081	34,37,44,45	48-35936A 4	.....	.032039		32	
48-13704A40 .Mirage®	.....	.033034		34,37,46	48-16547A45 .Laser II™(LH)	.....	.033081	34,37,44,45	48-36008A 1	.....	.031039	.033080	34,37,45	
48-13704A41 .Mirage®	.....	.033034		34,37,46	48-16548A40 .Laser II™	.....	.033080	34,37,44,45	48-36010A 1	.....	.031038	.033078	34,37,45	
48-13704A45 .Mirage®Plus	.....	.033034		34,37,46	48-16548A41 .Laser II™	.....	.033080	34,37,44,45	48-36010A 4	.....	.031039	.033080	34,37,45	
48-13704A46 .Mirage®Plus	.....	.033034		34,37,46	48-16548A45 .Laser II™	.....	.033080	34,37,44,45	48-36012A 1	.....	.031037	.033076	34,37,45	
48-13704A55 .Mirage®Plus	.....	.033056		46	48-16549A40 .Laser II™(LH)	.....	.033083	34,37,44,45	48-36012A 4	.....	.031038	.033078	45	
48-13705A40 .Mirage®(LH)	.....	.033033		34,46	48-16549A41 .Laser II™(LH)	.....	.033083	34,37,44,45	48-36012A 5	.....	.031036	.033074	45	
48-13705A41 .Mirage®(LH)	.....	.033033		34,46	48-16549A45 .Laser II™(LH)	.....	.033083	34,37,44,45	48-36014A 1	.....	.031036	.033074	45	
48-13705A45 .Mirage®Plus(LH)	.....	.033033		34,46	48-16550A40 .Laser II™	.....	.033082	34,37	48-36014A 4	.....	.031037	.033076	45	
48-13705A55 .Mirage®Plus(LH)	.....	.033055		46	48-16550A41 .Laser II™	.....	.033082	34,37	48-36014A 1	.....	.031036	.033074	45	
48-13706A40 .Mirage®	.....	.033036		34,37,46	48-16550A45 .Laser II™	.....	.033082	34,37	48-36014A 4	.....	.031037	.033076	45	
48-13706A41 .Mirage®	.....	.033036		34,37,46	48-16986A 5 .QSS™	.....	.033016	.033084	48-36016A 1	.....	.031035	.033072	45	
48-13706A45 .Mirage®Plus	.....	.033036		34,37,46	48-16986A45 .Vengeance	.....	.033016	.033084	48-36016A 4	.....	.031036	.033074	45	
48-13706A46 .Mirage®Plus	.....	.033036		34,37,46	48-16988A 5 .QSS™	.....	.033017	.033085	48-36016A 1	.....	.031035	.033072	45	
48-13707A41 .Mirage®(LH)	.....	.033035		34,46	48-16988A45 .Vengeance	.....	.033017	.033085	48-36016A 4	.....	.031036	.033074	45	
48-13707A45 .Mirage®Plus(LH)	.....	.033035		34,46	48-16990A40 .Laser II™	.....	.033018	.033086	48-36018A 1	.....	.031034		45	
48-13707A55 .Mirage®Plus(LH)	.....	.033057		46	48-16990A45 .Laser II™	.....	.033018	.033086	48-36018A 4	.....	.031035	.033072	45	
48-137706A55 .Mirage®Plus	.....	.033058		46	48-16992A40 .Laser II™	.....	.033019	.033087	48-36018A 4	.....	.031035	.033072	45	
48-16312A 4 .QSS™	.....	.033002	.033072	34,37,44	48-16992A45 .Laser II™	.....	.033019	.033087	48-36020A 1	.....	.031034		45	
48-16312A 5 .QSS™	.....	.033002	.033072	34,37,44	48-17874A12	.....	.032050		48-36020A 4	.....	.031034		45	
48-16312A45 .Vengeance	.....	.033002	.033072	34,37,44	48-19638A40 .Black Max™	031049	.....	31,35	48-36022A 1	.....	.031021		34,37,44	
48-16312A46 .Vengeance	.....	.033002	.033072	34,37,44	48-19640A40 .Black Max™	031048	.....	31,35	48-36022A 4	.....	.031021		34,37,44	
48-16314A 4 .QSS™	.....	.033003	.033074	34,37,44	48-19642A40 .Black Max™	031047	.....	31,35	48-37902A 4	.....	.032093	.033085	33,45	
48-16314A 5 .QSS™	.....	.033003	.033074	34,37,44	48-22575A 2	.....	.032077	31	48-38090A 1	.....	.032087		32,45	
48-16314A45 .Vengeance	.....	.033003	.033074	34,37,44	48-29658A 4	.....	.031003	.033086	48-38094A 1	.....	.032086		32,45	
48-16314A46 .Vengeance	.....	.033003	.033074	34,37,44	48-30388A 1	.....	.032093	.033085	48-38094A 4	.....	.032087		32,45	
48-16315A 4 .QSS™ (LH)	.....	.033075		34,37,44	48-30390A 1	.....	.032092	.033084	48-38098A 1	.....	.032085		32,45	
48-16315A 5 .QSS™ (LH)	.....	.033075		34,37,44	48-30396A 1	.....	.032089	33,45	48-38098A 4	.....	.032086		32,45	
48-16315A45 .Vengeance(LH)	.....	.033075		34,37,44	48-30396A 3	.....	.032089	33,45	48-42518A10	.....	.032060		31,35	
48-16316A 4 .QSS™	.....	.033004	.033076	34,37,44	48-30396A 4	.....	.032089	33,45	48-42518A11	.....	.032060		31,35	
48-16316A 5 .QSS™	.....	.033004	.033076	34,37,44	48-31072A 4	.....	.032092	.033084	48-42520A10	.....	.032058		31,35	
48-16316A45 .Vengeance	.....	.033004	.033076	34,37,44	48-31080A 1	.....	.032093	.033085	48-42520A11	.....	.032058		31,35	
48-16316A46 .Vengeance	.....	.033004	.033076	34,37,44	48-31082A 1	.....	.032092	.033084	48-42520A12	.....	.032058		31,35	
48-16317A 4 QSS™ (LH)	.....	.033077		34,37,44,45	48-31454A 3	.....	.032094	.033086	48-42522A10	.....	.032052		31,35	
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48-16317A45 .Vengeance(LH)	.....	.033077		34,37,44,45	48-31456A 3	.....	.032093	.033085	48-42522A12	.....	.032052		31,35	
48-16318A 4 .QSS™	.....	.033005	.033078	34,37,44	48-31456A 4	.....	.031003	.033086	48-42738A10 .Black Max™	032141	.....		32,36	
48-16318A 5 .QSS™	.....	.033005	.033078	34,37,44	48-31458A 3	.....	.032092	.033084	48-42740A10 .Black Max™	032142	.....		32,36	
48-16318A45 .Vengeance	.....	.033005	.033078	34,37,44	48-31458A 4	.....	.031002	.033085	48-43584A40	.....	.031049		31,35	
48-16318A46 .Vengeance	.....	.033005	.033078	34,37,44	48-32180A 1	.....	.032087	32,45	48-43586A40	.....	.031048		31,35	
48-16319A 4 QSS™ (LH)	.....	.033079		34,37,44,45	48-32180A 4	.....	.032087	32,45	48-43590A40	.....	.031047		31,35	
48-16319A 5 QSS™ (LH)	.....	.033079		34,37,44,45	48-32182A 1	.....	.032087	32,45	48-47670A 1	.....	.032020		31	
48-16319A45 .Vengeance(LH)	.....	.033079		34,37,44,45	48-32182A 4	.....	.032087	32,45	48-47670A 3	.....	.032020		31	
48-16320A 4 .QSS™	.....	.033006	.033080	34,37,44	48-32184A 1	.....	.032086	32,45	48-47670A10	.....	.032020		31	
48-16320A 5 .QSS™	.....	.033006	.033080	34,37,44	48-32184A 4	.....	.032086	32,35	48-47922A 1	.....	.032021		31	
48-16320A45 .Vengeance	.....	.033006	.033080	34,37,44	48-32186A 1	.....	.032086	32,35	48-47922A10	.....	.032021		31	
48-16320A46 .Vengeance	.....	.033006	.033080	34,37,44	48-32188A 1	.....	.032085	32,35	48-47926A 1	.....	.032019		31	
48-16321A 4 QSS™ (LH)	.....	.033081		34,37,44,45	48-32188A 4	.....	.032085	32,35	48-47926A10	.....	.032019		31	
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48-828158A12 Black Max™	032050		31,35	TS1077	.LightSpeed		.033083	34,37	348-64105-0		.142005	.143001	38				
48-832828A45 Black Max™	031064	.033074	34,37,44	TS1116	.Silverado	.033016	.033084	33,36	353-64103-0		.142005	.143080	38				
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48-832832A45 Black Max™	031066	.033078	34,37,44	TS1120	.LightSpeed		.033086	33,36	353-64105-0		.142006	.143081	38				
48-832834A45 Black Max™	031068	.033080	34,37,44	TS1122	.LightSpeed		.033087	33,36	353-64106-0			.143082	38				
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48-85632A40 .Black Max™	031053		32,36	TS1166T	.Silverado		.033090	32	353-64108-0		.142008	.143082	38				
48-86848A 4	.031048		31,35	TS1168T	.Silverado	.033028	.033091	32	353-64109-0		.142009	.143083	38				
48-86962A 4	.032136		31	<b>Suzuki</b>						361-64109-0			.143001	38			
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854146-8	.....082032-1	.....	49	683-45947-00-36	.....102003	.....	41	6G5-45978-03-98	.....103018	.....103046	.....	43,50		
854147-6	.....082031-1	.....	49	683-45947-00-EL	.....102003	.....	41	6H5-45943-00-EL	.....032040	.....033097	.....	42		
854148-4	.....082030-1	.....	49	683-45952-00-EL	.....102014	.....	41	6H5-45945-00-EL	.....032042	.....033095	.....	42		
854149-2	.....082029-1	.....	49	683-W4591-02-EL	.....102003	.....	41	6H5-45952-00-EL	.....032043	.....033094	.....	42		
854285-4	.....082001-1	.....	49	688-45930-01-98	.....103026	.....103057	42	6H5-45958-00-EL	.....	.....033096	.....	42		
854286-2	.....082002-1	.....	49	688-45930-02-98	.....103026	.....103057	42	6J9-45970-B0-00	.....	.....103054	.....	43,50		
854286-4	.....082002-1	.....	49	688-45930-60-98	.....103026	.....103057	42	6J9-45972-B0-00	.....	.....103052	.....	43,50		
854288-8	.....082003-1	.....	49	688-45970-01-98	.....103027	.....103058	42	6J9-45976-10-00	.....	.....103050	.....	43,50		
854289-6	.....082004-1	.....	49	688-45970-02-98	.....103027	.....103058	42	6K1-45947-00-98	.....031024	.....033074	.....	43		
854977-6	.....082001-1	.....	49	688-45970-03-98	.....103027	.....103058	42	6K1-45945-00-98	.....031025	.....033076	.....	43		
854978-4	.....082003-1	.....	49	688-45972-01-98	.....	.....103059	42	6K1-45970-00-98	.....(LH)	.....103045	.....	43,50		
854979-2	.....082009-1	.....	49	688-45972-02-98	.....	.....103059	42	6K1-45970-01-98	.....(LH)	.....103045	.....	43,50		
854982-6	.....082011-1	.....	49	688-45978-60-98	.....103025	.....103056	42	6K1-45972-00-00	.....(LH)	.....103051	.....	43,50		
854983-4	.....082013-1	.....	49	6A1-45943-00-00	.....	.....102006	41	6K1-45972-00-98	.....(LH)	.....103051	.....	43,50		
854984-2	.....082015-1	.....	49	6E0-45943-00-EL	.....102010	.....	41	6K1-45972-01-98	.....(LH)	.....103051	.....	43,50		
854986-7	.....082089-1	.....	49	6E0-45941-00-EL	.....102011	.....	41	6K1-45974-00-00	.....(LH)	.....103049	.....	43,50		
854987-5	.....082091-1	.....	49	6E5-45941-00-36	.....101034	.....103058	42	6K1-45974-00-98	.....(LH)	.....103049	.....	43,50		
854988-3	.....082093-1	.....	49	6E5-45941-00-EL	.....101034	.....103058	42	6K1-45974-01-98	.....(LH)	.....103049	.....	43,50		
854993-3	.....082004-1	.....	49	6E5-45943-00-36	.....101035	.....103059	42	6K1-45974-02-98	.....(LH)	.....103049	.....	43,50		
854997-4	.....082012-1	.....	49	6E5-45943-00-EL	.....101035	.....103059	42	6K1-45976-00-98	.....(LH)	.....103053	.....	43,50		
854998-2	.....082014-1	.....	49	6E5-45945-00-36	.....101033	.....103057	42	6K1-45976-01-98	.....(LH)	.....103053	.....	43,50		
854999-0	.....082016-1	.....	49	6E5-45945-00-EL	.....101033	.....103057	42	6K1-45978-00-00	.....(LH)	.....103047	.....	43,50		
872001-3	.....082090-1	.....	49	6E5-45945-01-EL	.....101033	.....103057	42	6K1-45978-00-98	.....(LH)	.....103047	.....	43,50		
872002-1	.....082092-1	.....	49	6E5-45947-00-36	.....101032	.....103056	42	6K1-45978-01-98	.....(LH)	.....103047	.....	43,50		
<b>Yamaha</b>														
61A-45972-00-98	.....103050	.....	43,50	6E5-45947-00-EL	.....101032	.....103056	42	6K1-45978-02-98	.....(LH)	.....103047	.....	43,50		
61A-45974-00-98	.....103048	.....	43,50	6E5-45949-00-36	.....101031	.....	42	6L5-45945-00-EL	.....	.....102008	.....	41		
61A-45978-00-98	.....103046	.....	43,50	6E5-45949-00-EL	.....101031	.....	42	6L5-45947-00-EL	.....102009	.....	.....	41		
61B-45972-00-98	.....(LH)	.....103051	43,50	6E5-45954-00-EL	.....101036	.....	42	6R1-45970-AO-00	.....(LH)	.....103049	.....	43,50		
61B-45974-00-98	.....(LH)	.....103049	43,50	6E5-45970-10-00	.....103048	.....103048	43,50	6R1-45972-AO-00	.....(LH)	.....103051	.....	43,50		
61B-45978-00-98	.....(LH)	.....103047	43,50	6E5-45970-10-98	.....103048	.....103048	43,50	6R1-45974-AO-00	.....(LH)	.....103053	.....	43,50		
62A-45970-10-00	.....103058	.....	42	6E5-45972-10-00	.....103052	.....103052	43,50	6R1-45976-AO-00	.....(LH)	.....103045	.....	43,50		
62A-45972-10-00	.....103059	.....	42	6E5-45972-10-98	.....103052	.....103052	43,50	6R1-45978-AO-00	.....(LH)	.....103047	.....	43,50		
62A-45974-10-00 Pro HP	.....103058	.....	42	6E5-45976-10-00	.....103050	.....103050	43,50	6R4-45970-AO-00 SALTWATER	.....	.....103048	.....	43,50		
62A-45970-10-00 Pro HP	.....103059	.....	42	6E5-45976-10-98	.....103050	.....103050	43,50	6R4-45972-AO-00 SALTWATER	.....	.....103050	.....	43,50		
650-45943-01-36	.....012102	.....	41	6E5-45978-10-00	.....103054	.....103054	43,50	6R4-45974-AO-00 SALTWATER	.....	.....103052	.....	43,50		
651-45947-00-36	.....012011	.....	41	6E5-45978-10-98	.....103054	.....103054	43,50	6R4-45976-AO-00 SALTWATER	.....	.....103044	.....	43,50		
653-45941-01-36	.....012013	.....	41	6G1-45943-00-36	.....102002	.....	41	6R4-45978-AO-00 SALTWATER	.....	.....103046	.....	43,50		
663-45930-00-98	.....113002	.....033096	42	6G1-45943-00-EL	.....102002	.....	41	MAR-GYT3B-03-13	.....	.....033095	.....	42		
663-45943-01-36	.....032040	.....033097	42	6G1-45947-00-EL	.....102001	.....	41	MAR-GYT3B-03-15	.....	.....033097	.....	42		
663-45943-02-36	.....032040	.....033097	42	6G1-W4591-01-EL	.....102012	.....	41	MAR-GYT3B-L6-16	.....(LH)	.....103045	.....	43,50		
663-45943-02-EL	.....032040	.....033097	42	6G5-45930-00-98	.....	.....103054	43	MAR-GYT3B-L6-18	.....(LH)	.....103047	.....	43,50		
663-45945-01-36	.....032042	.....033095	42	6G5-45941-00-36	.....101025	.....103044	43,50	MAR-GYT3B-L6-20	.....(LH)	.....103049	.....	43,50		
663-45945-02-36	.....032042	.....033095	42	6G5-45941-00-98	.....101025	.....103044	43,50	MAR-GYT3B-L6-22	.....(LH)	.....103051	.....	43,50		
663-45945-02-EL	.....032042	.....033095	42	6G5-45941-00-EL	.....101025	.....103044	43,50	MAR-GYT3B-V4-18	.....	.....103057	.....	43		
663-45947-01-36	.....032044	.....	42	6G5-45943-00-36	.....101029	.....103050	43,50	MAR-GYT3B-V4-22	.....	.....103058	.....	42		
663-45947-02-36	.....032044	.....	42	6G5-45943-00-EL	.....101029	.....103050	43,50	MAR-GYT3B-V4-22	.....	.....103059	.....	42		
663-45947-02-EL	.....032044	.....	42	6G5-45943-01-98	.....101029	.....103050	43,50	MAR-GYT3B-V6-16	.....	.....103044	.....	43,50		
663-45949-01-36	.....032039	.....	42	6G5-45945-00-36	.....101028	.....103048	43,50	MAR-GYT3B-V6-18	.....	.....103046	.....	43,50		
663-45949-01-EL	.....032039	.....	42	6G5-45945-00-EL	.....101028	.....103048	43,50	MAR-GYT3B-V6-20	.....	.....103048	.....	43,50		
663-45952-02-EL	.....032043	.....033094	42	6G5-45945-01-98	.....101028	.....103048	43,50	MAR-GYT3B-V6-22	.....	.....103050	.....	43,50		
663-45956-01-EL	.....102016	.....	42	6G5-45945-01-EL	.....101028	.....103048	43,50	MAR-GYT3B-V6-24	.....	.....103052	.....	43,50		
663-45958-00-36	.....032041	.....033096	42	6G5-45947-01-98	.....101027	.....103046	43,50	MAR-GYT3B-V6-25	.....	.....103054	.....	43,50		
663-45958-00-EL	.....032041	.....033096	42	6G5-45947-01-EL	.....101027	.....103046	43,50	MAR-GYT3B-V6-26	.....	.....103054	.....	43,50		
663-45958-01-36	.....032041	.....033096	42	6G5-45949-00-36	.....101030	.....103052	43,50	MAR-VMAX3-04-18	.....103057	.....103057	.....	42		
663-45958-01-EL	.....032041	.....033096	42	6G5-45949-00-98	.....101030	.....103052	43,50	MAR-VMAX3-04-20	.....103058	.....103058	.....	42		
663-45970-60-98	.....033095	.....	42	6G5-45949-00-EL	.....101030	.....103052	43,50	MAR-VMAX3-04-22	.....	.....103059	.....	42		
663-45972-60-98	.....113001	.....033094	42	6G5-45952-00-98	.....101026	.....103044	43,50	MAR-VMAX3-06-16	.....103044	.....103044	.....	43,50		
663-45974-60-98	.....033096	.....	42	6G5-45952-00-EL	.....101026	.....103044	43,50	MAR-VMAX3-06-18	.....103046	.....103046	.....	43,50		
663-45976-00-98	.....033097	.....	42	6G5-45970-00-98	.....	.....103044	43,50	MAR-VMAX3-06-20	.....103048	.....103048	.....	43,50		
663-45978-00-98	.....033097	.....	42	6G5-45970-01-98	.....	.....103044	43,50	MAR-VMAX3-06-22	.....103050	.....103050	.....	43,50		
664-45941-01-36	.....022001	.....	42	6G5-45970-02-98	.....	.....103044	43,50	MAR-VMAX3-06-24	.....103052	.....103052	.....	43,50		
664-45941-01-EL	.....022001	.....	42	6G5-45972-00-98	.....103022	.....103050	43,50	MAR-VMAX3-06-26	.....103054	.....103054	.....	43,50		
664-45945-00-36	.....022002	.....	42	6G5-45972-01-98	.....103022	.....103050	43,50	MAR-VMAX3-C6-18(LH)	.....103047	.....103047	.....	43,50		
664-45945-00-EL	.....022002	.....	42	6G5-45972-02-98	.....103022	.....103050	43,50	MAR-VMAX3-C6-20(LH)	.....103049	.....103049	.....	43,50		
664-45947-01-EL	.....022002	.....	42											

# OEM TO BALLISTIC™ CROSS REFERENCE

## Evinrude/Johnson to Ballistic Cross Reference

<b>3-Blade Propellers</b>									
Rotation	Aluminum		SST		Raker		Viper		<b>BALLISTIC™</b>
RH	175191	10" x 13"	390729	10" x 13"	—	—	—	—	<b>305029</b> 10-1/8" x 13"
RH	390380	10" x 15"	390730	10" x 15"	—	—	—	—	<b>305030</b> 10-1/8" x 15"
RH	176421	12-1/4" x 15"	390850	12-1/4" x 15"	—	—	—	—	<b>325030</b> 12-3/8" x 15"
RH	176422	11-3/4" x 17"	390851	11-3/4" x 17"	—	—	—	—	<b>325031</b> 12" x 17"
RH	391198	13-3/4" x 15"	389949	13-3/4" x 15"	—	—	—	—	<b>335030</b> 13-5/8" x 15"
RH	176214	14" x 17"	176572	13-7/8" x 17"	—	—	176623	13-1/8" x 17"	<b>335031</b> 13-1/2" x 17"
RH	176215	14" x 19"	176573	13-7/8" x 19"	394758	13-1/2" x 18"	176624	13-1/8" x 19"	<b>335032</b> 13-3/8" x 19"
RH	176216	14" x 21"	176574	13-7/8" x 21"	394759	13-1/2" x 20"	176625	13-1/8" x 21"	<b>335033</b> 13-1/8" x 21"
RH	391535	15-1/2" x 15"	174926	15" x 15"	—	—	—	—	<b>345031</b> 14-7/8" x 15"
RH	391200	15" x 17"	389925	15" x 16"	—	—	174889	15" x 17"	<b>345032</b> 14-3/4" x 17"
RH	—	—	391290	15" x 17"	—	—	174889	15" x 17"	<b>345032</b> 14-3/4" x 17"
LH	—	—	431930	15" x 17"	—	—	174890	15" x 17"	<b>345062</b> 14-3/4" x 17"
RH	—	—	176615	15" x 17"	—	—	176626	15" x 17"	<b>345032</b> 14-3/4" x 17"
LH	—	—	176616	15" x 17"	—	—	176629	15" x 17"	<b>345062</b> 14-3/4" x 17"
RH	391201	14-1/2" x 19"	389924	14-1/2" x 19"	394752	14-1/2" x 18"	174814	14-1/2" x 19"	<b>345033</b> 14-1/2" x 19"
LH	—	—	390821	14-1/2" x 19"	—	—	174811	14-1/2" x 19"	<b>345063</b> 14-1/2" x 19"
RH	—	—	176617	14-1/2" x 19"	—	—	176627	14-1/2" x 19"	<b>345033</b> 14-1/2" x 19"
LH	—	—	176618	14-1/2" x 19"	—	—	176630	14-1/2" x 19"	<b>345063</b> 14-1/2" x 19"
RH	391202	14-1/4" x 21"	389923	14-1/4" x 21"	394753	14-1/2" x 20"	174815	14-1/4" x 21"	<b>345034</b> 14-3/8" x 21"
LH	—	—	390822	14-1/4" x 21"	398502	14-1/2" x 20"	174812	14-1/4" x 21"	<b>345064</b> 14-3/8" x 21"
RH	—	—	176619	14-1/4" x 21"	—	—	176628	14-1/4" x 21"	<b>345034</b> 14-3/8" x 21"
LH	—	—	176620	14-1/4" x 21"	—	—	176902	14-1/4" x 21"	<b>345064</b> 14-3/8" x 21"
RH	391203	14-1/4" x 23"	389019	14-1/4" x 23"	394754	14-1/2" x 22"	174816	14-1/4" x 23"	<b>345035</b> 14-1/4" x 23"
LH	—	—	390823	14-1/4" x 23"	398503	14-1/2" x 22"	174813	14-1/4" x 23"	<b>345065</b> 14-1/4" x 23"
RH	—	—	390725	14" x 25"	394755	14-1/4" x 24"	—	—	<b>345036</b> 14-1/4" x 25"

## 3-Blade XL Propellers

Rotation					Raker				<b>BALLISTIC™ XL</b>
RH					394760	13-1/2" x 22"			<b>335034</b> 13-1/2" x 22"
RH					394761	13-1/2" x 24"			<b>335035</b> 13-1/2" x 24"
RH					394754	14-1/2" x 22"			<b>345041</b> 14-1/2" x 22"
RH					394755	14-1/2" x 24"			<b>345037</b> 14-1/2" x 24"
RH					394756	14-1/2" x 26"			<b>345038</b> 14-1/2" x 26"

## 4-Blade XL Propellers

Rotation					Renegade				<b>BALLISTIC™ XL</b>
RH					176058	13-1/2" x 23"			<b>435035</b> 13-3/4" x 23"
RH					175738	13-1/2" x 25"			<b>435036</b> 13-3/4" x 25"
RH					175739	13-1/2" x 27"			<b>435037</b> 13-3/4" x 27"

## OMC® Cobra/Volvo Penta SX Drive™ Cross-Reference (1994 & Newer)

### 3-Blade Propellers

Rotation	Aluminum		SST		Raker		Viper		<b>BALLISTIC™</b>
RH	3850299	15-1/2" x 15"	3850305	15" x 15"	—	—	—	—	<b>346031</b> 14-7/8" x 15"
RH	3850300	15" x 17"	3850306	15" x 16"	—	—	—	—	<b>346032</b> 14-3/4" x 17"
RH	—	—	3850307	15" x 17"	—	—	3850311	15" x 17"	<b>346032</b> 14-3/4" x 17"
LH	—	—	3850316	15" x 17"	—	—	3850320	15" x 17"	<b>346062</b> 14-3/4" x 17"
RH	3850301	14-1/2" x 19"	3850308	14-1/2" x 19"	—	—	3850312	14-1/2" x 19"	<b>346033</b> 14-1/2" x 19"
LH	—	—	3850317	14-1/2" x 19"	—	—	3850321	14-1/2" x 19"	<b>346063</b> 14-1/2" x 19"
RH	3850302	14-1/2" x 21"	3850309	14-1/4" x 21"	3855142	14-1/2" x 20"	3850313	14-1/4" x 21"	<b>346034</b> 14-3/8" x 21"
LH	—	—	3850318	14-1/4" x 21"	3855152	14-1/2" x 20"	3850322	14-1/4" x 21"	<b>346064</b> 14-3/8" x 21"
RH	3850303	14-1/4" x 23"	3850310	14-1/4" x 23"	3855144	14-1/2" x 22"	3850314	14-1/4" x 23"	<b>346035</b> 14-1/4" x 23"
LH	—	—	3850319	14-1/4" x 23"	3855154	14-1/2" x 22"	3850323	14-1/4" x 23"	<b>346065</b> 14-1/4" x 23"
RH	—	—	—	—	3855146	14-1/2" x 24"	—	—	<b>346036</b> 14-1/4" x 25"

Y Aluminum Note: When changing from an aluminum to a stainless steel prop, you may need to change to a lower pitch (1"-2") depending on the actual WOT RPM of your boat/motor (see page 4).  
 LH = Left-hand prop. In dual-engine applications, both propellers must be the same size and from the same manufacturer.

# OEM TO BALLISTIC™ CROSS REFERENCE

## Mercury/Mercruiser to Ballistic™ Cross Reference

3-Blade Propellers										
Rotation	Aluminum Y		QSS		Laser		Mirage		BALLISTIC™	
RH	48-19640*	10-3/8" x 13"	48-19644*	10-3/8" x 13"	—	—	—	—	<b>305129</b>	10-1/8" x 13"
RH	48-19642*	10-1/4" x 14-1/2"	—	—	—	—	—	—	<b>305130</b>	10-1/8" x 15"
RH	48-73136*	10-1/2" x 13"	48-76228*	10-3/8" x 13"	—	—	—	—	<b>395129</b>	10-1/8" x 13"
RH	48-73140*	10-1/8" x 15"	48-76232*	10-1/8" x 15"	—	—	—	—	<b>395130</b>	10-1/8" x 15"
RH	48-77342*	13-3/4" x 15"	—	—	—	—	—	—	<b>335130</b>	13-5/8" x 15"
RH	48-77344*	13-1/4" x 17"	—	—	—	—	—	—	<b>335131</b>	13-1/2" x 17"
RH	48-77346*	13" x 19"	—	—	48-16990*	13-1/4" x 20"	—	—	<b>335132</b>	13-3/8" x 19"
RH	48-77348*	12-3/4" x 21"	—	—	48-16992*	13-1/2" x 22"	—	—	<b>335133</b>	13-1/8" x 21"
RH	48-78116*	15-1/4" x 15"	48-16312*	14-1/2" x 15"	—	—	48-19838*	15-3/4" x 15"	<b>345131</b>	14-7/8" x 15"
RH	48-78118*	14-1/2" x 17"	48-16314*	14-1/2" x 17"	—	—	48-18278*	15-1/2" x 17"	<b>345132</b>	14-3/4" x 17"
LH	—	—	48-16315*	14-1/2" x 17"	—	—	48-90159*	15-1/2" x 17"	<b>345162</b>	14-3/4" x 17"
RH	48-832828*	15" x 17"	—	—	—	—	—	—	<b>345132</b>	14-3/4" x 17"
RH	48-78120*	14" x 19"	48-16316*	14" x 19"	48-16544*	14" x 19"	48-13700*	15-1/4" x 19"	<b>345133</b>	14-1/2" x 19"
LH	—	—	48-16317*	14" x 19"	48-16543*	14" x 19"	48-13701*	15-1/4" x 19"	<b>345163</b>	14-1/2" x 19"
RH	48-832830*	14-1/2" x 19"	—	—	—	—	—	—	<b>345133</b>	14-1/2" x 19"
RH	48-78122*	13-3/4" x 21"	48-16318*	13-3/4" x 21"	48-16546*	13-7/8" x 21"	48-13702*	14-3/4" x 21"	<b>345134</b>	14-3/8" x 21"
LH	—	—	48-16319*	13-3/4" x 21"	48-16545*	13-7/8" x 21"	48-13703*	14-3/4" x 21"	<b>345164</b>	14-3/8" x 21"
RH	48-832832*	14-1/4" x 21"	—	—	—	—	—	—	<b>345134</b>	14-3/8" x 21"
RH	48-78124*	13-1/2" x 23"	48-16320*	13-1/2" x 23"	48-16548*	13-3/4" x 23"	48-13704*	14-5/8" x 23"	<b>345135</b>	14-1/4" x 23"
LH	—	—	48-16321*	13-1/2" x 23"	48-16547*	13-3/4" x 23"	48-13705*	14-5/8" x 23"	<b>345165</b>	14-1/4" x 23"
RH	48-832834*	14" x 23	—	—	—	—	—	—	<b>345135</b>	14-1/4" x 23"
RH	48-78126*	13-3/8" x 25"	48-16322*	13-3/8" x 25"	48-16550*	13-3/4" x 25"	48-13706*	14-1/2" x 25"	<b>345136</b>	14-1/4" x 25"

3-Blade XL Propellers										
Rotation					Laser		Tempest		BALLISTIC™ XL	
RH	—	—	—	—	48-16992*	13-1/2" x 22"	—	—	<b>335134</b>	13-1/2" x 22"
RH	—	—	—	—	48-16994*	13-1/2" x 24"	—	—	<b>335135</b>	13-1/2" x 24"
RH	—	—	—	—	48-16546*	13-3/4" x 21"	48-825864*	14-3/4" x 23"	<b>345141</b>	14-1/2" x 22"
RH	—	—	—	—	48-16548*	13-3/4" x 23"	48-825864*	14-3/4" x 23"	<b>345137</b>	14-1/2" x 24"
RH	—	—	—	—	48-16548*	13-3/4" x 23"	48-825864*	14-3/4" x 23"	<b>345139 E</b>	14" x 24"
RH	—	—	—	—	48-16550*	13-3/4" x 25"	48-825866*	14-3/4" x 25"	<b>345138</b>	14-1/2" x 26"
RH	—	—	—	—	48-16550*	13-3/4" x 25"	48-825866*	14-3/4" x 25"	<b>345140 E</b>	14" x 26"

4-Blade XL Propellers										
Rotation							Trophy		BALLISTIC™ XL	
RH	—	—	—	—	—	—	48-825938*	13-3/4" x 23"	<b>435135</b>	13-3/4" x 23"
RH	—	—	—	—	—	—	48-825942*	13-3/4" x 25"	<b>435136</b>	13-3/4" x 25"
RH	—	—	—	—	—	—	48-825944*	13-3/4" x 26"	<b>435137</b>	13-3/4" x 27"

\* May include one of the following suffixes- A4, A5, A30, A40, A41, A45 (A45 represents Flo-TorqII drop in hub assembly. See below for replacement details)  
 LH = Left hand propeller. In dual engine applications, both propellers must be the same size and from the same manufacturer.  
 Y When Changing from an aluminum propeller to a stainless steel propeller, you may need to lower pitch (1"-2") depending on the actual WOT RPM of your application. (See page 4)  
 E EFI Outboards

## Replacing a Flo-TorqII™ Drop In Hub design with Ballistic Propellers

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

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

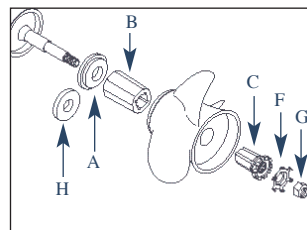
When converting to a Ballistic on a **V-6 gear-case**, eliminate B & C and use A, D, E, F & G as attaching hardware. (D & E replaces C) Be sure to use high-performance trim tab 822777A1 for Ballistic installations.

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

- 990312 Includes D & E for the V-6 gear-case
- 990332 Includes Forward Thrust Washer H for 4 Cylinder gear-case

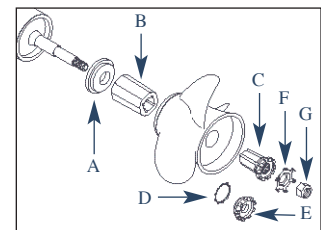
- 9661-1 Includes A, D, E, F & G for the V-6 gear-case
- 9660-1 Includes H, F & G for the 4 cylinder gear-case

### 4 Cylinder Gear-Case Example part No. 335131



- 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 Gear-case Motor Example Part No. 345133



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

# OEM TO BALLISTIC™ CROSS REFERENCE

## Honda to Ballistic Cross Reference

3-Blade Propellers						
Rotation	Aluminum <sup>Y</sup>		Stainless Steel		<b>BALLISTIC™</b>	
RH	—	—	58110-ZV5-E20	10-1/2" x 13"		<b>305229</b> 10-1/8" x 13"
RH	—	—	58110-ZV5-E00	10-1/2" x 15"		<b>305230</b> 10-1/8" x 15"
RH	51830-ZV5-000ZA	11-1/4" x 13"				<b>395929</b> 10-1/8" x 13"
RH	58130-ZV5-870ZA	11-1/2" x 14-1/4"				<b>395930</b> 10-1/8" x 15"
RH	58130-ZW1-W21ZA	13-3/4" x 15"	58130-ZW1-W91	13-1/8" x 16"		<b>335130</b> 13-5/8" x 15"
RH	58130-ZW1-W31ZA	13-1/4" x 17"	58130-ZW1-V01	13" x 18"		<b>335131</b> 13-1/2" x 17"
RH	58130-ZW1-W61ZA	13" x 19"	58130-ZW1-V11	13-1/4" x 20"		<b>335132</b> 13-3/8" x 19"
RH	58130-ZW1-W41ZA	12-3/4" x 21"	58130-ZW1-V31	13-1/2" x 22"		<b>335133</b> 13-1/8" x 21"

## Nissan/Tohatsu to Ballistic Cross Reference

3-Blade Propellers						
Rotation	Aluminum <sup>Y</sup>				<b>BALLISTIC™</b>	
RH	348-64102-0					<b>305429</b> 10-1/8" x 13"
RH	348-64103-0					<b>305430</b> 10-1/8" x 15"
RH	353-64105-0					<b>325030</b> 12-3/8" x 15"
RH	353-64107-0					<b>325031</b> 12" x 17"
RH	3B7-64532-0					<b>335930</b> 13-5/8" x 15"
RH	3B7-64536-0					<b>335931</b> 13-1/2" x 17"
RH	3B7-64541-0					<b>335932</b> 13-3/8" x 19"
RH	3B7-64545-0					<b>335933</b> 13-1/8" x 21"

## Suzuki to Ballistic Cross Reference

3-Blade Propellers						
Rotation	Aluminum <sup>Y</sup>		Stainless Steel		<b>BALLISTIC™</b>	
RH	58100-96490-019	10-1/4" x 13"	58200-96400	10-1/4" x 13"		<b>305529</b> 10-1/8" x 13"
RH	—	—	99105-00600-13P	10-1/4" x 13"		<b>305529</b> 10-1/8" x 13"
RH	—	—	99105-00600-15P	10-1/4" x 15"		<b>305530</b> 10-1/8" x 15"
RH	58100-95363-0191	11-1/2" x 15"	58100-94401	11-1/2" x 13"		<b>395929</b> 10-1/8" x 13"
RH	—	—	99105-00500-13P	11-3/4" x 13"		<b>395929</b> 10-1/8" x 13"
RH	—	—	58100-94411	11-1/2" x 14"		<b>395930</b> 10-1/8" x 15"
RH	58100-95382-0191	11-1/2" x 17"	99105-00500-15P	11-3/4" x 15"		<b>395930</b> 10-1/8" x 15"
RH	58100-95511-0191	13-1/4" x 17"	—	—		<b>335530</b> 13-5/8" x 15"
RH	58100-95521-0191	13" x 19"	—	—		<b>335531</b> 13-1/2" x 17"
RH	58100-95530-0191	13" x 21"	—	—		<b>335532</b> 13-3/8" x 19"
RH	58100-94500-019	13-1/2" x 15"	58100-94554	13-1/2" x 15"		<b>335530</b> 13-5/8" x 15"
RH	58100-94512-019	13-1/4" x 17"	99105-00100-16P	13-1/4" x 16"		<b>335531</b> 13-1/2" x 17"
RH	58100-94522-019	13" x 19"	99105-00100-18P	13-1/4" x 18"		<b>335532</b> 13-3/8" x 19"
RH	58100-94532-019	13" x 19"	99105-00101-20P	13-1/4" x 20"		<b>335533</b> 13-1/8" x 21"
RH	—	—	—	—		<b>345531</b> 14-7/8" x 15"
RH	—	—	99105-00200-16P	14-1/4" x 16"		<b>345532</b> 14-3/4" x 17"
LH	—	—	99105-0020L-16P	14-1/4" x 16"		<b>345562</b> 14-3/4" x 17"
RH	—	—	99105-00200-18P	14-1/4" x 18"		<b>345533</b> 14-1/2" x 19"
LH	—	—	99105-0020L-18P	14-1/4" x 18"		<b>345563</b> 14-1/2" x 19"
RH	—	—	99105-00200-20P	14-1/4" x 20"		<b>345534</b> 14-3/8" x 21"
LH	—	—	99105-0020L-20P	14-1/4" x 20"		<b>345564</b> 14-3/8" x 21"
RH	—	—	99105-00200-22P	14-1/4" x 22"		<b>345535</b> 14-1/4" x 23"
LH	—	—	99105-0020L-22P	14-1/4" x 22"		<b>345565</b> 14-1/4" x 23"
RH	—	—	99105-00200-24P	14-1/4" x 24"		<b>345536</b> 14-1/4" x 25"

## 3-Blade XL Propellers

Rotation	Aluminum <sup>Y</sup>		Stainless Steel		Thunder		<b>BALLISTIC™ XL</b>
RH	58100-94532-019	13" x 21"	99105-00100-22P	13-1/4" x 22"			<b>335534</b> 13-1/2" x 22"
RH	—	—	99105-00101-24P	13-1/4" x 24"			<b>335535</b> 13-1/2" x 24"
RH	—	—	99105-00200-22P	14-1/4" x 22"			<b>345541</b> 14-1/2" x 22"
RH	—	—	99105-00200-24P	14-1/4" x 24"	99105-00203-23P	14-3/4" x 23"	<b>345537</b> 14-1/2" x 24"
RH	—	—	99105-00200-26P	14-1/4" x 26"	99105-00203-25P	14-3/4" x 25"	<b>345538</b> 14-1/2" x 26"

## 4-Blade XL Propellers

Rotation							<b>BALLISTIC™ XL</b>
RH					99105-00400-23P	13-3/4" x 23"	<b>435535</b> 13-3/4" x 23"
RH					99105-00400-25P	13-3/4" x 25"	<b>435536</b> 13-3/4" x 25"
RH							<b>435537</b> 13-3/4" x 27"

<sup>Y</sup> Aluminum Note: When changing from an aluminum to a stainless steel prop, you may need to change to a lower pitch (1"-2") depending on the actual WOT RPM of your boat/motor (see page 10).

1. Uncupped propeller: Equivalent to Ballistic with 2" less pitch.

LH = Left-hand prop. In dual-engine applications, both propellers must be the same size and from the same manufacturer.



# OEM TO BALLISTIC™ CROSS REFERENCE

Yamaha										
3-Blade Propellers										
Rotation	Aluminum <sup>Y</sup>			Stainless Steel		VMAX 3		Performance Series		<i><b>BALLISTIC™</b></i>
RH	664-45949-02-EL	9-7/8" x 13"		664-45970-00-98	9-7/8" x 13"	—	—	—	—	<b>305929</b> 10-1/8" x 13"
RH	664-45952-00-EL	9-7/8" x 14"		—	—	—	—	—	—	<b>305930</b> 10-1/8" x 15"
RH	6H5-45945-00-EL	10-3/8" x 13"		663-45974-60-98	11-1/2" x 13"	—	—	—	—	<b>395929</b> 10-1/8" x 13"
RH	6H5-45943-00-EL	10" x 15"		663-45976-00-98	10-1/4" x 15"	—	—	—	—	<b>395930</b> 10-1/8" x 15"
RH	6E5-45947-00-EL	13-1/2" x 15"		688-45932-60-98	13-1/2" x 14"	—	—	—	—	<b>335930</b> 13-5/8" x 15"
RH	—	—		688-45978-60-99	13-1/2" x 16"	—	—	—	—	<b>335931</b> 13-1/2" x 17"
RH	6E5-45947-00-EL	13-1/4" x 17"		688-45930-01-98	13" x 17"	—	—	—	—	<b>335931</b> 13-1/2" x 17"
RH	6E5-45947-00-EL	13" x 19"		688-45970-03-98	13" x 19"	MAR-VMAX3-04-18	13-1/4" x 18"	MAR-GYT3B-V4-18	13-1/4" x 18"	<b>335932</b> 13-3/8" x 19"
RH	6E5-45947-00-EL	12-5/8" x 21"		688-45972-02-98	13" x 21"	MAR-VMAX3-04-20	13-1/4" x 20"	MAR-GYT3B-V4-20	13-1/4" x 20"	<b>335933</b> 13-1/8" x 21"
RH	6G5-45941-00-98	15-1/4" x 15"		6G5-45970-02-98	15-1/4" x 15"	—	—	—	—	<b>345931</b> 14-7/8" x 15"
RH	6G5-45947-01-98	14/x" x 17"		6G5-45978-03-98	13-3/4" x 17"	MAR-VMAX3-06-16	14-1/4" x 16"	MAR-GYT3B-V6-16	14-1/4" x 16"	<b>345932</b> 14-3/4" x 17"
LH	—	—		6K1-45978-02-98	13-3/4" x 17"	—	—	—	—	<b>345962</b> 14-3/4" x 17"
RH	6G5-45945-01-98	14" x 19"		6G5-45974-03-98	13-3/4" x 19"	MAR-VMAX3-06-18	14-1/4" x 18"	MAR-GYT3B-V6-18	14-1/4" x 18"	<b>345933</b> 14-1/2" x 19"
LH	—	—		6K1-45974-02-98	13-3/4" x 19"	MAR-VMAX3-C6-18	14-1/4" x 18"	MAR-GYT3B-V6-18	14-1/4" x 18"	<b>345963</b> 14-1/2" x 19"
RH	6G5-45943-01-98	13-3/4" x 21"		6G5-45972-02-98	13-3/4" x 21"	MAR-VMAX3-06-20	14-1/4" x 20"	MAR-GYT3B-V6-20	14-1/4" x 20"	<b>345934</b> 14-3/8" x 21"
LH	—	—		6K1-45972-01-98	13-3/4" x 21"	MAR-VMAX3-C6-20	14-1/4" x 20"	MAR-GYT3B-V6-20	14-1/4" x 20"	<b>345064</b> 14-3/8" x 21"
RH	6G5-45949-00-98	13-1/2" x 23"		6G5-45976-01-98	13-3/8" x 23"	MAR-VMAX3-06-22	14-1/4" x 22"	MAR-GYT3B-V6-22	14-1/4" x 22"	<b>345935</b> 14-1/4" x 23"
LH	—	—		6K1-45976-00-98	13-3/8" x 23"	MAR-VMAX3-C6-22	14-1/4" x 22"	MAR-GYT3B-V6-22	14-1/4" x 22"	<b>345965</b> 14-1/4" x 23"
RH	—	—		6G5-45930-00-98	13-3/8" x 25"	MAR-VMAX3-06-24	14-1/4" x 24"	MAR-GYT3B-V6-24	14-1/4" x 24"	<b>345936</b> 14-1/4" x 25"
3-Blade XL Propellers										
Rotation								Pro Series		<i><b>BALLISTIC™ XL</b></i>
RH								62A-45970-10-00	13-1/2" x 21"	<b>335934</b> 13-1/2" x 22"
RH								62A-45972-10-00	13-1/2" x 23"	<b>335935</b> 13-1/2" x 24"
RH								6J9-45976-10-00	14-1/2" x 21"	<b>345941</b> 14-1/2" x 22"
RH								6J9-45972-B0-00	14-1/2" x 23"	<b>345937</b> 14-1/2" x 24"
RH								66K-45972-B0-00	14-1/2" x 25"	<b>345938</b> 14-1/2" x 26"
4-Blade XL Propellers										
Rotation				VMAX 4		Performance Series		<i><b>BALLISTIC™ XL</b></i>		
RH				MAR-VMAX4-06-22 13-3/4" x 22"		MAR-GYT4B-V6-22 13-3/4" x 22"		<b>435935</b> 13-3/4" x 23"		
RH				MAR-VMAX4-06-24 13-3/4" x 24"		MAR-GYT4B-V6-24 13-3/4" x 24"		<b>435936</b> 13-3/4" x 25"		
RH				MAR-VMAX4-06-26 13-3/4" x 26"		MAR-GYT4B-V6-26 13-3/4" x 26"		<b>435937</b> 13-3/4" x 27"		

Δ = New

<sup>Y</sup> Aluminum Note: When changing from an aluminum to a stainless steel prop, you may need to change to a lower pitch (1"-2") depending on the actual WOT RPM of your boat/motor (see page 10).

LH = Left-hand prop. In dual-engine applications, both propellers must be the same size and from the same manufacturer.

# HOW TO USE THIS BOOK

- ◆ 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 10-20 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 our 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.

## V-4 GEARCASE OUTBOARDS

<table style="width: 100%; border-collapse: collapse;"> <tr><td>85 HP</td><td>.....1969-80, 1991-95</td></tr> <tr><td>88 HP</td><td>.....1981-1996</td></tr> <tr><td>90 HP</td><td>.....1981 &amp; Newer</td></tr> <tr><td>100 HP</td><td>.....1979-80, 1988-93</td></tr> <tr><td>110 HP</td><td>.....1986-89</td></tr> <tr><td>112 HP</td><td>.....1994-96</td></tr> </table>	85 HP	.....1969-80, 1991-95	88 HP	.....1981-1996	90 HP	.....1981 & Newer	100 HP	.....1979-80, 1988-93	110 HP	.....1986-89	112 HP	.....1994-96	<table style="width: 100%; border-collapse: collapse;"> <tr><td>115 HP</td><td>.....1973 &amp; Newer</td></tr> <tr><td>120 HP</td><td>.....1986-94</td></tr> <tr><td>125 HP</td><td>.....1971-72</td></tr> <tr><td>135 HP</td><td>.....1973-76</td></tr> <tr><td>140 HP</td><td>.....1977-94</td></tr> </table>	115 HP	.....1973 & Newer	120 HP	.....1986-94	125 HP	.....1971-72	135 HP	.....1973-76	140 HP	.....1977-94
85 HP	.....1969-80, 1991-95																						
88 HP	.....1981-1996																						
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115 HP	.....1973 & Newer																						
120 HP	.....1986-94																						
125 HP	.....1971-72																						
135 HP	.....1973-76																						
140 HP	.....1977-94																						

(13 SPLINES & THRU HUB EXHAUST)

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			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		H 01036										
CR, HB	14 R 11	3	382761	01047										
CR, HB	14 R 11	3		01038										
CR, HB	14 R 12	4		01037										
CR, HB	14 R 12	4		H 01037										
CR, HB	14 R 13	3	391668	J 011001										
20-24' Bts. - AL, SK	13-3/4 R 15	3	391198	J 011002	389949	013028	13-1/4 x 15	3	013076			13-5/8 x 15	3	335030
19-22' Bts. - AL, SK	13-1/4 R 15	3	391199	J 011003			13-1/4 x 17		013077			13-1/2 x 17		335031
19-22' Bts. - AL, SK	13-3/8 R 15	3			389948	013030								
19-22' Bts. - AL, SK	14 R 15	3	176214	J 011024										
17-19' Bts. - AL, SK	13 R 15	3	390896	J 011004	389510	013033	13-1/4 x 15		013078			13-3/8 x 15		335032
17-19' Bts. - AL, SK	14 R 19	3	176215	J 011025										
15-18' Bts. - AL, SK	12-3/4 R 21	3	389788	J 011005	389512	013034	13-1/4 x 21	3	013079			13-1/8 x 21	3	335033
15-18' Bts. - AL, SK	14 R 21	3	176216	J 011026										

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

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

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## 2-4 HORSEPOWER

3-4 HP Weedless .....1952 - 73  
 2, 3.3 HP .....2000 & Newer

### PROPELLER APPLICATION

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

## 4-8 HORSEPOWER

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

### PROPELLER APPLICATION

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

## 5 HORSEPOWER

5 HP .....1965 - 68

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Part No. Michigan	Rapture Performance Dia. x Pitch	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Stainless RH	Stainless LH
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## 5.5-6 HORSEPOWER

12-14' Bts. - LL 8 L 7-1/2 3 380104 012004

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

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Part No. Michigan	Rapture Performance Dia. x Pitch	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Stainless RH	Stainless LH
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## 6-15 HORSEPOWER

14-16' Bts. - LL 7-3/4 R 6-1/2 3 012067  
 12-14' Bts. - LL 8 R 7-1/4 2 376968 012060

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

(PIN DRIVE)

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Part No. Michigan	Rapture Performance Dia. x Pitch	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Stainless RH	Stainless LH
14-16' Bts. - LL	7-3/4 R 6-1/2	3		012068								
14-16' Bts. - AL, SK	8-1/4 R 8	3	387334	012008								

## 10 HORSEPOWER

14-16' Runabouts 8-1/4 R 9 3 391534 012101  
 12-14' Bts. - LL 8 R 7-1/4 3 376968 012005  
 12-14' Bts. - LL 8-1/4 R 8-1/2 3 377635 012007

10 HP 1951 - 57

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Part No. Michigan	Rapture Performance Dia. x Pitch	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Stainless RH	Stainless LH
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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



### 9.9-15 HORSEPOWER

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

#### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance		Stainless		Ballistic High Performance		Stainless	
			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' Bts. - 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  
 18 HP .....1957 - 73  
 (PIN DRIVE)

20 HP .....1969 - 73  
 25 HP .....1969 - 77

#### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance		Stainless		Ballistic High Performance		Stainless	
			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' Bts. - HL	9 R 8	3		012014										
Weedless	9 R 10	3	592959	012076										
14-16' Bts. - HL	9 R 9	3	379717	012109										
12-14' Bts. - HL	9 R 10	3	383629	012011										
12-14' Bts. - LL	9-1/4 R 11	3	388088	012013										

### 14-28 HORSEPOWER

12-14' Bts. - LL 9-1/4 R 12 3 012010

14 HP .....1989  
 25 HP .....1978-84  
 (SPLINE DRIVE)

25 HP§ .....1978-91  
 28 HP .....1986-96

#### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance		Stainless		Ballistic High Performance		Stainless	
			OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
16-18' Bts. - HL	9 R 9	3	389068	012021										
16-18' Bts. - HL	9 R 9	3		H 011030										
15-17' Bts. - AL, SK	9 R 10	3	389069	012015										
15-17' Bts. - AL, SK	9 R 10	3		H 011031										

### 20-35 HORSEPOWER

14-17' Bts. - AL, SK 9-1/4 R 11 3 388883 012016  
 14-17' Bts. - LL 9-1/4 R 12 3 389944 012030

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

30 HP 2 Cyl. ....1984 & Newer  
 35 HP 2 & 3 Cyl. ....1976 & Newer

#### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance		Stainless		Ballistic High Performance		Stainless	
			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		H 011032										
17-20' Bts. - AL, SK	11 R 9	3	386317	012054										
17-20' Bts. - AL, SK	11 R 9	3		H 011033										
16-18' Bts. - AL, SK	10-1/2 R 11	3	175190	012055										
15-17' Bts. - AL, SK	10 R 13	3	175101	012056										

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

H New Cupped Version. § Commercial & Workhorse Engines





## 25-40 HORSEPOWER

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

(PIN DRIVE)

### PROPELLER APPLICATION

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



## 40-50 HORSEPOWER (4-STROKE)

40 (4-Stroke) .....	1999 & Newer	50 (4-Stroke) .....	1999 & Newer
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### PROPELLER APPLICATION

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

## 40-75 HORSEPOWER ♦ SMALL GEARCASE

40 HP 2 Cyl. ....	1984 & Newer	60 HP 2 Cyl. ....	1980-85
48 HP .....	1987-96	75 HP 3 Cyl. ....	1975-85
50 HP 2 Cyl. ....	1975 & Newer	Sprint .....	1986-92
55 HP 2 Cyl. ....	1976-1979	Formula E .....	1986-92

(SMALL GEARCASE & THRU HUB EXHAUST)

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Aluminum Part No. Michigan	Stainless OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
CR, HB	13 R 11	3	386907	012036			11-3/4 x 11	3	013080					
CR, HB	13 R 11	3		H 011034										
15-18' Bts. - AL, SK	12-1/2 R 13	3	386909	012037	390849	013024	11-3/4 x 13	3	013081					
15-18' Bts. - AL, SK	12-1/2 R 13	3		H 011035										
14-17' Bts. - AL, SK	12-1/4 R 15	3	176421	H 011027										
14-17' Bts. - 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' Bts. - LL	11-3/4 R 17	3	176422	H 011028										
13-15' Bts. - 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' Bts. - LL	11-1/2 R 19	3	176423	H 011029										
12-14' Bts. - LL	11-1/2 R 19	3	386908	012040										

## 50 HORSEPOWER

12-14' Bts. - LL	11-1/2 R 19	3			390852	013032								
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50 HP V-4 (PIN DRIVE) .....1958-59

### PROPELLER APPLICATION

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

H New Cupped Version § Commercial & Workhorse Engines



### 45-75 HORSEPOWER ♦ LARGE GEARCASE

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	65 HP 3 Cyl. Pleasure .....1972-73
50 HP 2 Cyl. Pleasure .....1971-74	70 HP 3 Cyl. Pleasure .....1974 & Newer
75 HP 3 Cyl. Pleasure .....1975-84	

(LARGE GEARCASE & THRU HUB EXHAUST)

#### PROPELLER APPLICATION

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



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

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

#### PROPELLER APPLICATION

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

### 60-90 HORSEPOWER

V-4 HP (PIN DRIVE)

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

u Small Hub Prop uses special small nut #302001

#### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
			OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
17-19' Bts. - AL, SK	10 R 9-1/4	3	379260	u 012042										
17-19' Bts. - AL, SK	10-1/4 R 10	3	378040	012043										
16-17' Bts. - AL, SK	10 R 11	3	377978	012044										

### 100 HORSEPOWER

14-16' Bts. - AL, SK 10 R 12 3 378039 012045

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

#### PROPELLER APPLICATION

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

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

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



**85-140 HORSEPOWER ♦ V4 GEARCASE**

85 HP .....1969-80, 1991-95	115 HP .....1973 & Newer
88 HP .....1981-1996	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 SPLINES & THRU HUB EXHAUST)

**PROPELLER APPLICATION**

Boat Description	Diameter		Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance		Stainless		Ballistic High Performance		Stainless	
	Rot.	Pitch		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		H 011036										
CR, HB	14	R 11	3	382761	012047										
CR, HB	14	R 11	3		H 011038										
CR, HB	14	R 12	4		012075										
CR, HB	14	R 12	4		H 011037										
CR, HB	14	R 13	3	391668	J 011001										
20-24' Bts. - AL, SK	13-3/4	R 15	3	391198	J 011002	389949	013028	13-1/4 x 15	3	013076		13-5/8 x 15	3	335030	
19-22' Bts. - AL, SK	13-1/4	R 17	3	391199	J 011003			13-1/4 x 17	3	013077		13-1/2 x 17	3	335031	
19-22' Bts. - AL, SK	13-3/8	R 17	3			389948	013030								
19-22' Bts. - AL, SK	14	R 17	3	176214	J 011024										
17-19' Bts. - AL, SK	13	R 19	3	390896	J 011004	389510	013033	13-1/4 x 19	3	013078		13-3/8 x 19	3	335032	
17-19' Bts. - AL, SK	14	R 19	3	176215	J 011025										
15-18' Bts. - AL, SK	12-3/4	R 21	3	389788	J 011005	389512	013034	13-1/4 x 21	3	013079		13-1/8 x 21	3	335033	
15-18' Bts. - AL, SK	14	R 21	3	176216	J 011026										
High Performance												Ballistic 3 XL	13-1/2 x 22	3	334034
High Performance												Ballistic 3 XL	13-1/2 x 24	3	334035

**90-300 HORSEPOWER ♦ V6 GEARCASE**

**V-4 Engines (w/ V-6 gearcase)**

90 HP Pleasure .....1995 & Newer
100 HP Commercial .....1984 & Newer
115 HP Pleasure .....1995 & Newer
130 HP Pleasure .....1995 & Newer
120-140 HP Pleasure .....1985
140 (25) HP Pleasure .....1989-94

**V-6 Engines**

150 HP Commercial .....1993 & Newer
150 HP Pleasure .....1978 & Newer
155 HP Commercial .....1978 & Newer
175 HP Pleasure .....1977 & Newer
185 HP Pleasure .....1984-85

**V-6 Engines (continued)**

200 HP Pleasure .....1976 & Newer
200 HP Pleasure .....2000 & Newer
225 HP Pleasure .....1986 & Newer
235 HP Pleasure .....1978-85
250 HP Pleasure .....2001 & Newer
2.6 Liter Pleasure .....1984-85

**V-8 Engines (w/ V-6 gearcase)**

250 HP Pleasure .....1991 & Newer
275 HP Pleasure .....1986-88
300 HP Pleasure .....1986-95
3.6 Liter Pleasure .....1986-87

(15 SPLINES & THRU HUB EXHAUST)

**PROPELLER APPLICATION**

Boat Description	Diameter		Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance		Stainless		Ballistic High Performance		Stainless	
	Rot.	Pitch		OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH	LH
CR, HB	15-1/2	R 10	3		J 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	39129	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	38901	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 4 Blade Propellers**

High Performance												Ballistic 3 XL	14-1/2 x 24	3	345037
High Performance												Ballistic 3 XL	14-1/2 x 25	3	345038
50-62 MPH	13-3/4	R 22	4			J ] 013036						Ballistic 4 XL	13-3/4 x 23	4	435035
55-67 MPH	13-3/4	R 24	4			J ] 013038						Ballistic 4 XL	13-3/4 x 25	4	435036

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

- H New Cupped Version
- J 2-1/2" of skeg must be removed for proper fit. Use thrust washer 333592.
- ] If currently using uncupped propeller, use cupped propeller having 2" less pitch. Boats with power trim use same pitch.
- ] ] Forward thrust washer A-9500-111 comes with propeller and replaces the standard OMC thrust washer, except when used on 1991 or 1992. 1994 through current model engines use OMC thrust washer 12869.







## 20-60 HORSEPOWER

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

(SPLINED SHAFT)

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
CR, HB, SB	10-3/8 R 10	3	48-819337A40	<b>072014</b>										
17-19' Bts. - AL, SK	10-3/8 R 11-1/2	3	48-819336A40	<b>072131</b>										
16-17' Bts. - AL, SK	10-3/8 R 12-1/2	3	48-819335A40	<b>072132</b>										
14-16' Bts. - AL, SK	10-3/8 R 13-1/2	3	48-819334A4	<b>072133</b>										
14-16' Bts. - LL	10-3/8 R 14-1/2	3		<b>072134</b>										



## 40-75 HORSEPOWER

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

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
19' and Up	12-1/2 R 8	3	48-42738A10	<b>032141</b>										
19' and Up	12-1/2 R 8	3		<b>H 031070</b>										
17-19' Bts. - AL, SK	11-1/4 R 10	3	48-73132A40	<b>031015</b>			10-1/2 x 10	3	<b>033088</b>					
16-18' Bts. - AL, SK	12 R 10-1/2	3	48-42740A10	<b>032142</b>										
16-18' Bts. - AL, SK	12 R 10-1/2	3		<b>H 031071</b>										
16-18' Bts. - AL, SK	10-7/8 R 11	3	48-85632A40	<b>031053</b>										
15-17' Bts. - AL, SK	10-3/4 R 12	3	48-816702A40	<b>031056</b>										
15-17' Bts. - AL, SK	10-5/8 R 12	3	48-73134A40	<b>031016</b>	48-79792A5	<b>033001</b>	10-1/2 x 12	3	<b>033089</b>					
14-17' Bts. - AL, SK	10-1/2 R 13	3	48-816704A40	<b>031057</b>			10-1/2 x 13	3	<b>033090</b>		10-1/8 x 13	3	<b>395129</b>	
14-17' Bts. - AL, SK	10-3/8 R 13	3	48-73136A40	<b>031017</b>										
14-16' Bts. - LL	10-3/8 R 14	3	48-816706A40	<b>031058</b>										
14-16' Bts. - LL	10-1/4 R 14	3	48-73138A40	<b>031018</b>	48-76230A5	<b>033028</b>	10-1/2 x 14	3	<b>033091</b>					
13-15' Bts. - LL	10-1/8 R 15	3	48-73140A40	<b>031019</b>			10-1/2 x 15	3	<b>033092</b>		10-1/8 x 15	3	<b>395129</b>	
Up to 15' Bts.	10 R 17	3	48-73144A40	<b>031020</b>										

## 70-135 HORSEPOWER

70-135 HPv	.....1970-79
(18 SPLINES)	

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
16-17' Bts. - AL, SK	13-1/8 R 15	3	FP-389	<b>072032</b>										
14-16' Bts. - AL, SK	13-1/8 R 17	3	48-FP372	<b>072033</b>										

## 70-140 HORSEPOWER

Light Runabouts - LL	13-1/8 R 19	3	FP-383	<b>072034</b>
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70-140 HPv	.....1977-89
(15 SPLINES)	

### PROPELLER APPLICATION

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

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

v One piece lower unit      v v Two piece lower unit      H New Cupped Version



## 80 HORSEPOWER

80 HPv v .....1961 - 65

### PROPELLER APPLICATION

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

## 85-150 HORSEPOWER - SINGLE EXHAUST UNITS

85, 125 HP .....1988 - 89  
 90, 120 HP .....1990 - 94  
 150 HP .....1989 - 94

90 HP L-Drive .....1989 - 91  
 120 HP L-Drive .....1989 - 91  
 150 HP L-Drive .....1991

(15 SPLINES & THRU HUB EXHAUST)

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	OEM	Aluminum Part No. Michigan	Stainless Part No. OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Stainless RH	Stainless LH
17-22' Bts. - AL, SK	13-1/2 R 15	3	48-FP669-1	071035						13-5/8 x 15	3	335130
17-22' Bts. - AL, SK	13-1/2 R 15	3	48-FP692-1	072127								
17-22' Bts. - AL, SK	13-3/4 R 15	3			FP699	073007						
16-20' Bts. - AL, SK	13-1/2 R 17	3	48-FP685-1	071036						13-1/2 x 17	3	335131
16-20' Bts. - AL, SK	13-1/2 R 17	3	48-FP685-1	072128								
16-20' Bts. - AL, SK	13-1/4 R 17	3			FP668	073008						
16-18' Bts. - AL, SK	13 R 19	3	48-FP686-1	071037	FP695	073009				13-3/8 x 19	3	335132
16-18' Bts. - AL, SK	13 R 19	3	48-FP686-1	072129								
Up to 16' - AL, SK	12-5/8 R 21	3	48-FP694	071038						13-1/8 x 21	3	335133

## 90-150 HORSEPOWER - DUAL EXHAUST UNITS

Up to 16' - AL, SK 13 R 21 3 FP69 073010

90, 120 HP= .....1990 - 94  
 90, 120 HP= .....1995 - 98  
 150 HP= .....1989 - 94

90 HP L-Drive= .....1990 - 91  
 120 HP L-Drive= .....1990 - 91  
 150 HP L-Drive= .....1991

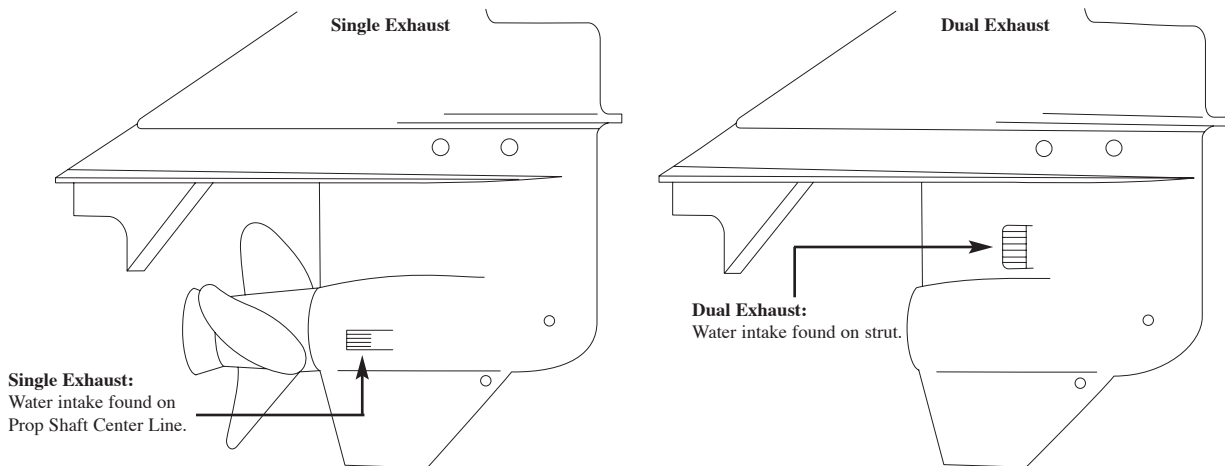
### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	OEM	Aluminum Part No. Michigan	Stainless Part No. OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Stainless RH	Stainless LH
25' Bts. and Up - AL	14 R 11	3	48-77338A40	031054								
22' Bts. and Up - AL	14 R 13	3	48-77340A40	031055								
19-24' Bts. - 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' Bts. - AL, SK	13-1/2 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' Bts. - AL, SK	13 R 19	3	48-77346A40	031043	48-16990A40	N 033018	13-1/4 x 19	3	033086	13-3/8 x 19	3	335132
15-18' Bts. - 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' Bts. - AL, SK	13 R 21	3			48-16992A40	N 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	N 335134

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

v One piece lower unit. v v Two piece lower unit. j If currently using uncupped propeller, use cupped propeller having 2" less pitch. Boats with power trim use same pitch.  
 = For dual exhaust units only & requires thrust washer 23-819057. = For all units 95 thru current. Requires thrust washer 13191A1.  
 N Requires special exhaust snout Part No. F744116 for proper fit.

### Single vs. Dual Exhaust







## 6-15 HORSEPOWER

6, 8, 9.9 HP .....1986 & Newer  
 10 HP .....1995 & Newer  
 Includes Sea Pro & 4-Stroke

(THRU HUB EXHAUST)

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless			
			OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH
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' Bts. - AL	9-1/4 R 7	3	48-828152A12	032056									
14-19' Bts. - AL	9 R 8	3	48-828154A12	032054									
14-18' Bts. - AL	9 R 9	3	48-828156A12	032052									
14-16' Bts. - AL	9 R 10-1/2	3	48-828158A12	032050									

## 7.5-10 HORSEPOWER

Merc. 7.5, 9.8 .....1968 - 85  
 110 .....1968 - 79

(THRU HUB EXHAUST)

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless			
			OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH
Std. Replacement	9 R 9	2	48-47922A10	032021									
Lt. Runabouts, - LL	9 R 10	2	48-47926A10	032019									
14-16' Bts. - AL, SK	9 R 7	3	48-47670A10	032020									

## 18-25 HORSEPOWER

18 HP .....1980 - 85  
 20 HP .....1986 & Newer  
 Includes Bigfoot, Sea Pro & 4-Stroke

(THRU HUB EXHAUST)

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless			
			OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH
15-19' Bts.	10-3/8 R 11	3	48-19638A40	031049									
13-17' Bts.	10-3/8 R 13	3	48-19640A40	031048						10-1/8 x 13	3	305129	

## 20 HORSEPOWER

Up to 14' Bts. 10-1/4 R 14-1/2 3 48-19642A40 031047 10-1/8 x 15 3 305130

Merc. 20 .....1963-81

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless		
			OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades

## 40-45 HORSEPOWER

Std. Replacement 9-7/8 R 11 2 48-33480A1 032135  
 14-16' Bts. - AL, SK 10 R 9 3 48-86962A4 032136

40 HP .....1973 - 75  
 45 HP .....1973 - 81

### PROPELLER APPLICATION

## COMPACT ENGINE - 11 SPLINE

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless			
			OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	LH	Dia. x Pitch	Blades	RH
Std. Replacement	8-1/4 R 6	2	48-63494A10	032014									

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

### PROPELLER APPLICATION

Boat	Diameter	Aluminum Part No.	Stainless Part No.	Rapture Performance	Stainless	Ballistic High Performance	Stainless
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Key to abbreviations: LL: Light Loads; SB: Sailboat; AL: All Loads; SK: Skiboat; WB: Workboat; HB: Houseboat; CR: Cruisers; HL: Heavy Loads; WD: Weedless



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

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

#### PROPELLER APPLICATION

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

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

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

#### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance			Ballistic High Performance				
			OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	Stainless LH	Dia. x Pitch	Blades	RH	Stainless LH
14-16' Bts. - 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

#### PROPELLER APPLICATION

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

### 25-70 HORSEPOWER

Model 402-500-700 .....1977 - 84	45 HP .....1986 - 89
25 HP Bigfoot (4-Stroke) .....1999 & Newer	50 HP .....1977 & Newer
30 HP .....1994 & Newer	55 HP .....1995 & Newer
35 HP .....1984 - 89	60 HP (Not Bigfoot or Sea Pro) .....1984 & Newer
40 HP .....1977 & Newer	70 HP .....Thru 1983

#### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance			Ballistic High Performance				
			OEM	Michigan	OEM	Michigan	Dia. x Pitch	Blades	RH	Stainless LH	Dia. x Pitch	Blades	RH	Stainless LH
19' and Up	12-1/2 R 8	3	48-42738A10	032141										
19' and Up	12-1/2 R 8	3		H 031070										
17-19' Bts. - AL, SK	11-1/4 R 10	3	48-73132A40	031015			10-1/2 x 10	3	033088					
16-18' Bts. - AL, SK	12 R 10-1/2	3	48-42740A10	032142										
16-18' Bts. - AL, SK	12 R 10-1/2	3		H 031071										
16-18' Bts. - AL, SK	10-7/8 R 11	3	48-85632A40	031053										
15-17' Bts. - AL, SK	10-3/4 R 12	3	48-816702A40	031056										
15-17' Bts. - AL, SK	10-5/8 R 12	3	48-73134A40	031016	48-79792A5	033001	10-1/2 x 12	3	033089					
14-17' Bts. - AL, SK	10-1/2 R 13	3	48-816704A40	031057										
14-17' Bts. - 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' Bts. - LL	10-3/8 R 14	3	48-816706A40	031058										
14-16' Bts. - LL	10-1/4 R 14	3	48-73138A40	031018	48-76230A5	033028	10-1/2 x 14	3	033091					
13-15' Bts. - 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. - 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

H New Cupped Version





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

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

#### PROPELLER APPLICATION

Boat Description	Diameter		Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless						
	Rot.	Pitch		OEM	Michigan	OEM	Michigan	Di.	Pitch	Blades	RH	LH	Di.	Pitch	Blades	RH	LH
20-24' Boats	13	R 11	3	48-35936A3	v032089												
19-22' Boats	13	R 13	3	48-58826A3	v032090												
17-19' Bts. - AL, SK	13	R 15	3	48-32390A3	v032091												
17-19' Bts. - AL, SK	13	R 15	3		v031001												
17-19' Bts. - AL, SK	13-3/4	R 15	3			48-16986A5	D 033016	13-3/4 x 15	3	D	033084						
16-17' Bts. - AL, SK	13	R 17	3	48-65022A1	v032092												
16-17' Bts. - AL, SK	13	R 17	3		v031002												
16-17' Bts. - AL, SK	13-1/4	R 17	3			48-16988A5	D 033017	13-3/4 x 17	3	D	033085						
15-18' Bts. - AL, SK	13	R 19	3	48-65024A1	v032093												
15-18' Bts. - AL, SK	13	R 19	3		v031003	48-16990A40	t 033018	13-1/4 x 19	3	D	033086						
14-16' Bts. - AL, SK	13	R 21	3	48-67280A1	v032094												
14-16' Bts. - AL, SK	13	R 21	3		v031004	48-16992A40	t 033019	13-1/4 x 21	3	D	033087						

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

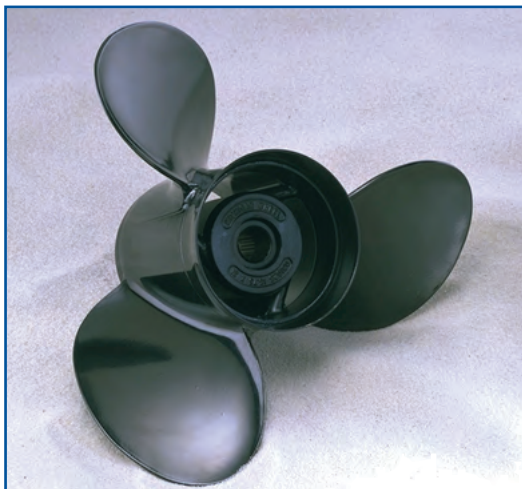
60 HP (Bigfoot & Sea Pro Only) . . . . .1995 & Newer	650 4 Cyl. (2:1) . . . . .1961 - 70
70 HP . . . . .1987 - 89	650 2 Cyl. . . . .Thru 1971
75 HP . . . . .1984 & Newer	800 - 850 6 Cyl. . . . .Thru 1972
80 HP . . . . .1978 - 89	800 - 850 4 Cyl. . . . .1972 - 77
90 HP . . . . .1978 & Newer	900 - 1500 Models . . . . .Thru 1977
100 HP . . . . .1988 & Newer	80 HP (Yamaha) . . . . .1977
115 HP . . . . .1978 & Newer	80 HP (Mariner) . . . . .1977
115 HP 4-Stroke . . . . .2001 & Newer	
125 HP . . . . .1994 & Newer	
140 HP (Includes Sea Pro & Offshore) . . . . .1978 - 81	

#### PROPELLER APPLICATION

Boat Description	Diameter		Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless						
	Rot.	Pitch		OEM	Michigan	OEM	Michigan	Di.	Pitch	Blades	RH	LH	Di.	Pitch	Blades	RH	LH
25' Bts. & Up - AL	14	R 11	3	48-77338A40	t 031054												
22' Bts. & Up - AL	14	R 13	3	48-77340A40	t 031055												
19-24' Bts. - AL	13-3/4	R 15	3	48-77342A40	D 031041	48-16986A5	D 033016	13-1/4 x 15	3	D	033084	13-5/8 x 15	3	335130			
17-20' Bts. - AL, SK	13-1/4	R 17	3	48-77344A40	D 031042	48-16988A5	D 033017	13-1/4 x 17	3	D	033085	13-1/2 x 17	3	335131			
16-19' Bts. - AL, SK	13	R 19	3	48-77346A40	t 031043	48-16990A40	t 033018	13-1/4 x 19	3	D	033086	13-3/8 x 19	3	335132			
15-18' Bts. - AL, SK	12-3/4	R 21	3	48-77348A40	t 031044												
15-18' Bts. - AL, SK	13	R 21	3			48-16992A40	t 033019	13-1/4 x 21	3	D	033087	13-1/8 x 21	3	335133			
Lt. Runabouts, LL	12-1/2	R 23	3	48-77350A40	t 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

w Use thrust washer 65091.LIMITED INVENTORY ITEMS. t Use thrust washer 13191A1.  
 D To avoid damage or injury, replace standard trim tab with trim tab 822777A1 and thrust washer 13191A1 MUST be used.



# Your next prop can be better than your last!





## 135-300 HORSEPOWER ♦ V6 GEARCASE

135 HP .....1987 & Newer  
 150 HP .....1978 & Newer  
 175 HP .....1978 & Newer  
 200 HP .....1978 & Newer  
 220 HP .....1987 - 88

225 HP .....1980 & Newer  
 250 HP .....1994 & Newer  
 275 HP .....1990 - 94  
 300 HP .....1983, 1999 & Newer  
 3.4 Litre .....1984 - 86

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

Use thrust washer 13171

Add 4" pitch for twin motors

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance Stainless			Ballistic High Performance Stainless				
			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' Bts. - AL	16 R 14	3	48-16438A40	031050										
21-24' Bts. - AL	15-1/4 R 15	3	48-78116A40	031023										
21-24' Bts. - AL	14-1/2 R 15	3			48-16312A4	033002	14-1/4 x 15	3	D	033072	D 033073	14-7/8 x 15	3	345131
20-23' Bts. - AL, SK	16 R 6	3	48-16440A40	031051										
19-23' Bts. - AL, SK	14-1/2 R 17	3	48-78118A40	031024	48-16314A4	033003	14-1/4 x 17	3	D	033074	D 033075	14-3/4 x 17	3	345132 345162
19-23' Bts. - AL, SK	15 R 17	3	48-832828A45	n 031064										
19-22' Bts. - AL, SK	15-1/2 R 18	3	48-11324A45	031052										
18-22' Bts. - AL, SK	14 R 19	3	48-78120A40	031025	48-16316A4	033004	14-1/4 x 19	3	D	033076	D 033077	14-1/2 x 19	3	345133 345163
18-22' Bts. - AL, SK	14-1/2 R 19	3	48-832830A45	n 031065										
18-20' Bts. - AL, SK	13-3/4 R 21	3	48-78122A40	031026	48-16318A4	033005	14-1/4 x 21	3	D	033078	D 033079	14-3/8 x 21	3	345134 345164
18-20' Bts. - AL, SK	14-1/4 R 21	3	48-832832A45	n 031066										
17-20' Bts. - AL, SK	13-1/2 R 23	3	48-78124A40	031027	48-16320A4	033006	14-1/4 x 23	3	D	033080	D 033081	14-1/4 x 23	3	345135 345165
17-20' Bts. - AL, SK	14 R 23	3	48-832834A45	n 031068										
Up to 18' Bts.	13-3/8 R 25	3	48-78126A40	031067										

### High Performance 4 Blade Propellers

50-62 MPH	13-3/4 R 22	4		Y 033038		Ballistic 4 XL	13-3/4 x 23	4	435135
55-67 MPH	13-3/4 R 24	4	Y Use thrust washer A-9500-110	Y 033040		Ballistic 4 XL	13-3/4 x 25	4	435136
60-72 MPH	13-3/4 R 26	4	provided with propeller.	Y 033042		Ballistic 4 XL	13-3/4 x 27	4	435137

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

18-21' Bts. - AL, SK	15-1/4 R 19	3		48-13700A41	033030				
18-20' Bts. - AL, SK	14-3/4 R 21	3		48-13702A41	033032				
17-20' Bts. - AL, SK	14-5/8 R 23	3		48-13704A41	033034				
16-19' Bts. - 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

n Larger blade area design used primarily on 1997 and newer applications. D To avoid damage or injury, replace standard trim tab with tim tab 822777A1.  
**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 for Michigan Match/Rapture, or page 18 for Ballistic.

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

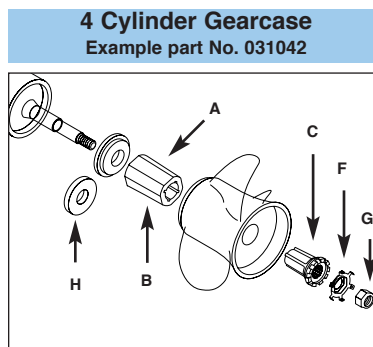
Propellers supplied from Mercury™, Mariner™ and Force® since 1996 come with Flo-Torq II™ drop in hubs equipped with attaching hardware A,B,C,F & G per the following illustrations. When switching to Michigan Match™ or Rapture™ propellers, change the attaching hardware set up as follows.

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.

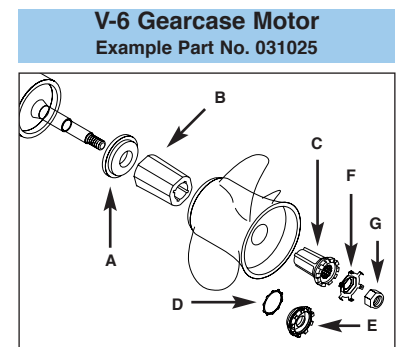
When converting to a Michigan Propeller on a **V-6 gear-case**, eliminate B & C and use A, D, E, F & G as attaching hardware (D & E replaces C). Be sure to use high-performance trim tab 822777A1 for Rapture™ installations.

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.



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



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



## 8 HORSEPOWER

8 HP .....1976 - 84

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	OEM	Aluminum Part No. Michigan	OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Stainless RH LH	Ballistic High Performance Dia. x Pitch	Stainless RH LH
14-16' - AL, SK	8-1/4 R 8	3		48-82764		<b>012008</b>				
14-16' - LL	8-1/4 R 9	3		48-82766		<b>012101</b>				

## 6-15 HORSEPOWER

6 HP 4-Stroke .....2000  
 6, 8, 9.9 HP .....1986 & Newer  
 Includes Marathon & 4-Stroke

10 HP .....1995 & Newer  
 15 HP .....1989 & Newer

### PROPELLER APPLICATION

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

## 15-25 HORSEPOWER

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

20 HP .....1976 - 79  
 25 HP .....1977 - 79

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	OEM	Aluminum Part No. Michigan	OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Stainless RH LH	Ballistic High Performance Dia. x Pitch	Stainless RH LH
HB, SB	9-1/4 R 7	3		48-96628		<b>012102</b>				
12-14' Bts. - HL	9 R 10	3		48-96625		<b>012011</b>				
12-14' Bts. - AL, SK	9-1/4 R 11	3		48-96623		<b>012013</b>				

## 20-25 HORSEPOWER

12-14' Bts. - LL 9-1/4 R 12 3 48-96622 **012010**

20-25 HP .....1985 & Newer  
 Includes Bigfoot, Marathon & 4-Stroke  
 (THRU HUB EXHAUST)

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	OEM	Aluminum Part No. Michigan	OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Stainless RH LH	Ballistic High Performance Dia. x Pitch	Stainless RH LH
15-19' Bts.	10-3/8 R 11	3		48-19638A40		<b>031049</b>				

## 25-30 HORSEPOWER

13-17' Bts. 10-3/8 R 13 3 48-19640A40 **031048** 10-1/8 x 13 3 **305129**  
 Up to 14' Bts. 10-1/4 R 14-1/2 3 48-19642A40 **031047** 10-1/8 x 15 3 **305130**

25 HP .....1980 - 84  
 28 HP .....1976 - 79  
 (FLOW-THRU EXHAUST)

30 HP .....1979 - 90

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	OEM	Aluminum Part No. Michigan	OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Stainless RH LH	Ballistic High Performance Dia. x Pitch	Stainless RH LH
16-18' Bts. - AL, SK	9-7/8 R 9	3		48-81647		<b>022001</b>				
16-18' Bts. - AL, SK	9-7/8 R 9	3			H	<b>021001</b>				
14-17' Bts. - AL, SK	9-7/8 R 10-1/2	3		48-81649		<b>022002</b>				

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

H New Cupped Version



### 30-80 HORSEPOWER

30 HP .....1994 & Newer  
 40 HP .....1978 & Newer  
 45 HP .....1986 - 89  
 48 HP .....All Years  
 50 HP .....1980 & Newer  
 Includes Bigfoot, Marathon, & 4-Stroke unless noted otherwise.

55 HP .....1995 & Newer  
 60 HP (Not Bigfoot or Marathon) .....1978 & Newer  
 70 HP .....thru 1983  
 60 HP .....1976 See listing under Mercury section on pages 31-34.  
 80 HP .....1977 See listing under Mercury section on pages 31-34.

#### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	RH	Stainless LH
19' Bts. & Up	12-1/2 R 8	3	48-42738A1	032141										
19' Bts. & Up	12-1/2 R 8	3	48-42738A10	H 031070										
17-19' Bts. - AL, SK	11-1/4 R 10	3	48-73132A40	031015			10-1/2 x 10	3	033088					
16-18' Bts. - AL, SK	12 R 10-1/2	3	48-42740A10	032142										
16-18' Bts. - AL, SK	12 R 10-1/2	3	48-42740A10	H 031071										
16-18' Bts. - AL, SK	10-7/8 R 11	3	48-85632A40	031053										
15-17' Bts. - AL, SK	10-3/4 R 12	3	48-816702A40	031056										
15-17' Bts. - AL, SK	10-5/8 R 12	3	48-73134A40	031016	48-79792A5	033001	10-1/2 x 12	3	033089					
14-17' Bts. - AL, SK	10-1/2 R 13	3	48-816704A40	031057										
14-17' Bts. - 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' Bts. - LL	10-3/8 R 14	3	48-76230A5	031058										
14-16' Bts. - LL	10-1/4 R 14	3	48-73138A40	031018	48-76230A5	033028	10-1/2 x 14	3	033091					
13-15' Bts. - LL	10-1/8 R 15	3	48-7314A40	031019			10-1/2 x 15	3	033092		10-1/8 x 15	3	395130	
Up to 15' Bts. - LL	10 R 17	3	48-73144A40	031020										

### 60-125 HORSEPOWER ♦ V4 GEARCASE

60 HP (Bigfoot & Marathon Only) .....1995 & Newer  
 75 HP .....1984 & Newer  
 75 HP (4-Stroke) .....2001 & Newer  
 80 HP .....1978 - 83  
 90 HP .....1978 & Newer  
 Includes Marathon & Offshore

90 HP (4-Stroke) .....2001 & Newer  
 100 HP .....1988 & Newer  
 115 HP .....1978 & Newer  
 115 HP (4-Stroke) .....2001 & Newer  
 125 HP .....1994 & Newer

#### PROPELLER APPLICATION

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

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

H New Cupped Version. † Use thrust washer 13191A1.

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

**Note:** When replacing Flo-Torq II™ plastic hub props, for all Mariner® V-4 & V-6 engines, 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 34 for Michigan Match/Rapture, or page 18 for Ballistic.



# Sit Down! Shut Up! Hang On!

**RAPTURE**  
 Max-Performance



### 135-275 HORSEPOWER ♦ V6 GEARCASE

135 HP . . . . .1986 & Newer	220 HP . . . . .1987-88
150 HP . . . . .1979 & Newer	225 HP . . . . .1994 & Newer
175 HP . . . . .1978 & Newer	250 HP . . . . .1990 & Newer
200 HP . . . . .1979 & Newer	275 HP . . . . .1990-94

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

Use Thrust Washer 13171

Add 4" pitch for twin motors

#### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum Part No. OEM	Aluminum Part No. Michigan	Stainless Part No. OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	RH	Stainless 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' Bts. - AL	16 R 14	3	48-16438A40	031050											
21-24' Bts. - AL	15-1/4 R 15	3	48-78116A40	031023											
21-24' Bts. - AL	14-1/2 R 15	3			48-16312A4	033002	14-1/4 x 15	3	D	033072	D 033073	14-7/8 x 15	3	345131	
20-23' Bts. - AL, SK	16 R 16	3	48-16440A40	031051											
19-23' Bts. - AL, SK	14-1/2 R 17	3	48-78118A40	031024	48-16314A4	033003	14-1/4 x 17	3	D	033074	D 033075	14-3/4 x 17	3	345132 345162	
19-23' Bts. - AL, SK	15 R 17	3	48-832828A45	n031064											
19-22' Bts. - AL, SK	15-1/2 R 18-1/2	3	48-11324A45	031052											
18-22' Bts. - AL, SK	14 R 19	3	48-78120A40	031025	48-16316A4	033004	14-1/4 x 19	3	D	033076	D 033077	14-1/2 x 19	3	345133 345163	
18-22' Bts. - AL, SK	14-1/2 R 19	3	48-832830A45	n031065											
18-20' Bts. - AL, SK	13-3/4 R 21	3	48-78122A40	031026	48-16318A4	033005	14-1/4 x 21	3	D	033078	D 033079	14-3/8 x 21	3	345134 345164	
18-20' Bts. - AL, SK	14-1/4 R 21	3	48-832832A45	n031066											
17-20' Bts. - AL, SK	13-1/2 R 23	3	48-78124A40	031027	48-16320A4	033006	14-1/4 x 23	3	D	033080	D 033081	14-1/4 x 23	3	345135 345165	
17-20' Bts. - AL, SK	14 R 23	3	48-832834A45	n031068											
Up to 18' Bts.	13-3/8 R 25	3	48-78126A40	031067			14-1/4 x 25	3	D	033082	D 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			Y 033038							Ballistic 4 XL	13-3/4 x 23	4	435135
55-67 MPH	13-3/4 R 24	4	Y Use thrust washer A-9500-110		Y 033040							Ballistic 4 XL	13-3/4 x 25	4	435136
60-72 MPH	13-3/4 R 26	4	provided with propeller.		Y 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

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

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

**Note:** When replacing Flo-Torq II™ plastic hub props, for all Mariner® V-4 & V-6 engines, 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 34 for Michigan Match/Rapture, or page 18 for Ballistic.







### 9.9-18 HORSEPOWER

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

#### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless 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
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#### PROPELLER APPLICATION

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

### 35-50 HORSEPOWER

12-16' Bts. - AL											10-1/8 x 15	3	305430	
------------------	--	--	--	--	--	--	--	--	--	--	-------------	---	--------	--

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

#### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
20' Bts. & Up - AL							10-1/2 x 10	3	143001					
17-21' Bts. - AL	10.6 R 11.3	3	361-64113-0	142001										
16-17' Bts. - AL	10.6 R 11.7	3	361-64114-0	142002			10-1/2 x 12	3	143002					
14-16' Bts. - AL	10.3 R 12.7	3	348-64102-0	142003			10-1/2 x 13	3	143003					

### 50-70 HORSEPOWER

12-14' Bts. - AL	10.2 R 13.9	3	348-64103-0	142004			10-1/2 x 14	3	143004					
Up to 13' Bts. - AL							10-1/2 x 15		143005		12-3/8 x 15	3	325030	

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

#### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless 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										

### 90-140 HORSEPOWER

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					

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

#### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless 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	

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



## 9.9-15 HORSEPOWER

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

### PROPELLER APPLICATION

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

## 25-30 HORSEPOWER

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

### PROPELLER APPLICATION

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

## 35-65 HORSEPOWER

DT 35C .....1987 - 90	DT 60 .....1983 - 84
DT 40 .....1983 & Newer	DT 65 .....1985 - 97
DT 50 & 50M .....1983 - 84	DF40 (4-Stroke) .....1999 & Newer
DT 55 .....1987 - 90	DF50 (4-Stroke) .....1999 & Newer

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Stainless Michigan	Rapture Performance Dia. x Pitch	Blades RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades RH	Stainless LH
18-21' Bts. Bts. - AL	12-1/4 R 10	3	58100-95212-019	032045			10-1/2 x 10	3	033093			
18-21' Bts. Bts. - AL	12-1/4 R 10	3	58100-95212-019	H 031072								
17-19' Bts. Bts. - AL	12 R 11	3	58100-95222-019	032044								
17-19' Bts. Bts. - AL	12 R 11	3	58100-95222-019	H 031073								
16-18' Bts. - LL	10-5/8 R 12	3			113001		10-1/2 x 12	3	033094			
15-17' Bts. - LL	11-3/4 R 12	3	58100-95393-019	032043								
14-16' Bts. - 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' Bts. - LL	10-1/4 R 14	3			58100-94401	113002	10-1/2 x 14	3	033096			
12-14' Bts. - LL	11-1/4 R 14	3	58100-95353-019	032041								

## 60-140 HORSEPOWER

12-14' Bts. - 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' Bts. - LL	10-3/4 R 16	3	58100-95373-019	032039								

DF 60, 70 + (4-Stroke) .....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

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

- # 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
- @ Use stopper 57632-96400
- H New Cupped Version      Q If currently using uncupped propeller, use cupped propeller having 2" less pitch. Boats with power trim use same pitch.



## 90-115 HORSEPOWER - (4 STROKE)

DF90 (4-Stroke) .....2001 & Newer

DF115 (4-Stroke) .....2001 & Newer

### PROPELLER APPLICATION

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



## 150-225 HORSEPOWER

DT 150 .....1986 & Newer  
DT 175 .....1986-92

DT 200 .....1986 & Newer  
DT 225 .....1990 & Newer

### PROPELLER APPLICATION

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

High Performance											Ballistic 3 XL	14-1/2 x 26	3	345538
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



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

H New Cupped Version

# GO BALLISTIC!

## High Caliber Performance For



### 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.





## 2 HORSEPOWER

2 HP .....1986 & Newer

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
12-15' Bts. - AL	7-1/4 R 5	3	6A1-45943-00-00	102006										
12-15' Bts. - AL	7-1/4 R 5-1/2	3		102007										

## 3 HORSEPOWER

3 HP .....1986 & Newer

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
12-15' Bts. - AL	7-1/4 R 7-1/4	3	6L5-45945-00-EL	102008										
12-15' Bts. - AL	7-1/4 R 8-1/4	3	6L5-45947-00-EL	102009										

## 4 HORSEPOWER

4 HP .....1986 & Newer

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
12-15' Bts. - AL	7-1/2 R 7	3	6E0-45943-00-EL	102010										

## 6-8 HORSEPOWER

12-15' Bts. - AL 7-1/2 R 8 3 6E0-45941-00-EL 102011

6 HP .....1986 & Newer

8 HP .....1984 & Newer

(FLOW-THRU EXHAUST)

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless 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										
12-15' Bts. - AL	9 R 7	3	6G1-W4591-01-EL	102012										

## 8 HORSEPOWER

12-15' Bts. - AL 9 R 9 3 102013

8 HP 1976 - 83

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
12-15' Bts. - AL	9 R 9	3		102013										

## 9.9-15 HORSEPOWER

14-16' Bts. - AL 8-1/4 R 8 3 012008

14-16' Bts. - LL 8-1/4 R 9 3 012101

9.9 HP .....1984 & Newer

15 HP .....1984 & Newer

(FLOW-THRU EXHAUST)

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
13-17' Bts. - HL	9-1/4 R 8	3	683-45947-00-EL	102003										

## 15-28 HORSEPOWER

12-15' Bts. - AL 9-1/4 R 9 3 683-45945-00-EL 102004

12-15' Bts. - AL 9-1/4 R 10-1/2 3 683-45943-00-EL 102005

12-15' Bts. - AL 9-1/4 R 9-3/4 3 683-45952-00-EL 102014

15A & W15 HP .....1976 - 83

25 HP 2 Cyl. ....1977 - 79

20 HP .....1976 - 78

28 HP .....1976 - 78

(PIN DRIVE)

### PROPELLER APPLICATION

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

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



## 20-30 HORSEPOWER

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

(FLOW-THRU EXHAUST)

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
16-18' Bts. - AL, SK	9-7/8 R 9	3	664-45941-01-EL	022001										
16-18' Bts. - AL, SK	9-7/8 R 9	3		H 021001										
14-17' Bts. - AL, SK	9-7/8 R 10-1/2	3	664-45945-00-EL	022002										
13-16' Bts. - AL	9-7/8 R 11	3	664-45947-01-EL	102015										
13-16' Bts. - LL	9-3/8 R 12	3	664-45954-00-EL	022003										

## 20-30 HORSEPOWER

20 HP .....	1976 - 78, 1996 - 97	30 HP .....	1979 & Newer
25 HP .....	1980 & Newer	C 30 .....	1979 & Newer
C 25 HP .....	1980 & Newer		

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
14-17' Bts. - General Usage											10-1/8 x 13	3	305929	

## 40-60 HORSEPOWER

13-15' Bts. - General Usage											10-1/8 x 15	3	305930	
40 HP .....	1984 & Newer	55 HP .....	1976 - 95											
48 HP .....	1995 & Newer	60 HP .....	1976 - 91											
50 HP (not T50) .....	1984 & Newer	FS40 (4-Stroke) .....	1999 & Newer											
		FS50 (4-Stroke) .....	1995 & Newer											

### PROPELLER APPLICATION

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

## 50-130 HORSEPOWER

12-14' Bts. - 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' Bts. - LL	10-3/4 R 16	3	663-45949-01-EL	032039										
T50 HP .....	1996 & Newer	90 HP .....	1984 & Newer											
60 HP .....	1992 & Newer	115 HP .....	1984 & Newer											
70 HP .....	1984 & Newer	130 HP .....	1984 & Newer											
75 HP .....	1994 & Newer	FS80 (4-Stroke) .....	1999 & Newer											
80 HP .....	1997	FS100 (4-Stroke) .....	1999 & Newer											
85 HP .....	1991 - 97	FS115 (4-Stroke) .....	2000 & Newer											

### PROPELLER APPLICATION

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
25' Bts. - AL	14 R 11	3	6E5-45954-00-EL	101036										
22' Bts. - AL	13-5/8 R 13	3	6E5-45949-00-EL	101031										
20-24' Bts. - AL, SK	13-1/2 R 15	3	6E5-45947-00-EL	101032										
20-24' Bts. - 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' Bts. - 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	

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

H New Cupped Version







**MERCURISER™, ALPHA ONE™ ♦ 110-190 HORSEPOWER (See Footnotes t & n)**

<b>Mercruiser™</b>	<b>Alpha One™</b>
120-190 HP .....1983 - 85	2.5 L (120 HP) .....1986 - 89
1A, 1B, 1C,	3.0 L (125-140 HP) .....1986 & Newer
120, 140, 145 DTS	3.7 L (165-190 HP) .....1986 - 89
165, 228, 470, 485, 888, 898	

**PROPELLER APPLICATION**

Boat Description	(-MPH)	Diameter Rot. & Pitch	Blades	Aluminum Part No. OEM	Michigan	Stainless Part No. OEM	Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless 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' Bts. - (17-28)		16 R 14	3	48-16438A40	031050										
21-26' Bts. - (18-31)		15-1/4 R 15	3	48-78116A40	031023										
21-26' Bts. - (18-31)		14-1/2 R 15	3			48-16312A4	033002	14-1/4 x 15	3	D 033072	D 033073	14-7/8 x 15	3	345131	
19-23' Bts. - (26-34)		16 R 16	3	48-16440A40	031051										
19-23' Bts. - (27-37)		14-1/2 R 17	3	48-78118A40	031024	48-16314A4	033003	14-1/4 x 17	3	D 033074	D 033075	14-3/4 X 17	3	345132	345162
19-23' Bts. - (27-37)		15 R 17	3	48-832828A45	1 031064										
17-21' Bts. - (32-39)		15-1/2 R 18	3	48-11324A45	031052										
17-21' Bts. - (33-42)		14 R 19	3	48-78120A40	031025	48-16316A4	033004	14-1/4 x 19	3	D 033076	D 033077	14-1/2 x 19	3	345133	345163
17-21' Bts. - (33-42)		14-1/2 R 19	3	48-832830A45	1 031065										
Up to 19' Bts. - (37-46)		13-3/4 R 21	3	48-78122A40	031026	48-16318A4	033005	14-1/4 x 21	3	D 033078	D 033079	14-3/8 x 21	3	345134	345164
Up to 19' Bts. - (37-46)		14-1/4 R 21	3	48-832832A45	1 031066										
Up to 18' Bts. - (40-50)		13-1/2 R 23	3	48-78124A40	031027	48-16320A4	033006	14-1/4 x 23	3	D 033080	D 033081	14-1/4 x 23	3	345135	345165
Up to 18' Bts. - (40-50)		14 R 23	3	48-832834A45	1 031068										
Up to 18' Bts. - (43-55)		13-3/8 R 25	3	48-78126A40	031067			14-1/4 x 25	3	D 033082	D 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

**MERCURISER™, ALPHA ONE™, BRAVO ONE™ ♦ 200-320 HORSEPOWER (See Footnotes t & n)**

<b>Mercruiser™</b>	<b>Alpha One™ (Continued)</b>
200-260 HP .....1983 - 85	350 Magnum (240-300 HP) .....1987 & Newer
228, 898, 225S, 233, 255TRS, 260, 280TRS, 330TRS	6.2 MPI (320 HP) .....2001
<b>Alpha One™</b>	<b>Bravo One™</b>
4.3 L (155-210 HP) .....1986 & Newer	5.0 L (220-240 HP) .....1998 & Newer
5.0 L (180-240 HP) .....1986 & Newer	5.7 L (210-280 HP) .....1995 & Newer
5.7 L (210-260 HP) .....1986 & Newer	350 Magnum (300 HP) .....1996 & Newer
262 Magnum (205 HP) .....1997 & Newer	

**PROPELLER APPLICATION**

Boat Description	(-MPH)	Diameter Rot. & Pitch	Blades	Aluminum Part No. OEM	Michigan	Stainless Part No. OEM	Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless 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' Bts. - (18-31)		16 R 14	3	48-16438A40	031050										
23-28' Bts. - (19-38)		15-1/4 R 15	3	48-78116A40	031023										
23-28' Bts. - (19-38)		14-1/2 R 15	3			48-16312A4	033002	14-1/4 x 15	3	D 033072	D 033073	14-7/8 x 15	3	345131	
22-26' Bts. - (26-35)		16 R 16	3	48-16440A40	031051										
21-26' Bts. - (29-45)		14-1/2 R 17	3	48-78118A40	031024	48-16314A4	033003	14-1/4 x 17	3	D 033074	D 033075	14-3/4 x 17	3	345132	345162
21-26' Bts. - (29-45)		15 R 17	3	48-832828A45	1 031064										
21-25' Bts. - (34-42)		15-1/2 R 18	3	48-11324A45	031052										
19-25' Bts. - (35-49)		14 R 19	3	48-78120A40	031025	48-16316A4	033004	14-1/4 x 19	3	D 033076	D 033077	14-1/2 x 19	3	345133	345163
19-25' Bts. - (35-49)		14-1/2 R 19	3	48-832830A45	1 031065										
17-23' Bts. - (41-56)		13-3/4 R 21	3	48-78122A40	031026	48-16318A4	033005	14-1/4 x 21	3	D 033078	D 033079	14-3/8 x 21	3	345134	345164
17-23' Bts. - (41-56)		14-1/4 R 21	3	48-832832A45	1 031066										
Up to 20' Bts. - (47-62)		13-1/2 R 23	3	48-78124A40	031027	48-16320A4	033006	14-1/4 x 23	3	D 033080	D 033081	14-1/4 x 23	3	345135	345165
Up to 20' Bts. - (47-62)		14 R 23	3	48-832834A45	1 031068										
Up to 18' Bts. - (47-65)		13-3/8 R 25	3	48-78126A40	031067			14-1/4 x 25	3	D 033082	D 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

n 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 for Michigan Match/Rapture, or page 18 for Ballistic.

All suggestions are based upon single engine boats. Add 4" of pitch for twin applications.

t Caution: Use standard trim tab 34127A1 (except for Rapture™ use 822777A1) and forward thrust washer 56292A2. These propellers fit 1983 and newer Alpha One™/Mercruiser™ applications provided thrust washer is changed to 56292A2.

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

D 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.



**ALPHA ONE™ 1987 & NEWER ♦ 365 HP & LOWER (RUBBER HUB PROPELLERS) (SEE FOOTNOTES n & t)**

<b>Alpha One™</b> (see t )	<b>Diesel</b>
5.0 L (250 HP) .....1998 & Newer	D2.8 L .....1997 & Newer
5.7 L (250-260 HP) .....1995 & Newer	D3.0 L .....1990 - 96
320 EFI (320 HP) .....1987 - 89	D3.6 L .....1990 & Newer
350 Magnum (240-280 HP) .....1987 & Newer	D4.2 L .....1990 & Newer
454 Magnum (330 HP) .....1987	D7.3 L .....1998 & Newer

**PROPELLER APPLICATION**

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

**BRAVO ONE™ 1988 & NEWER ♦ 365 HP & LOWER (RUBBER HUB PROPELLERS) (SEE FOOTNOTES n & t)**

<b>Bravo One™</b>	454 Magnum (350-365 HP) .....1988 & Newer
5.7 L (250-280 HP) .....1995 & Newer	7.4 L (300-330 HP) .....1988 & Newer
320 EFI (320 HP) .....1988 - 89	
350 Magnum (300 HP) .....1996 & Newer	

**PROPELLER APPLICATION**

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

**BRAVO ONE™ ♦ OVER 365 HP (SOLID HUB PROPELLERS) (SEE FOOTNOTES n & t)**

21-24' Bts. - AL, SK	14-1/2 L 25	3			48-13707A41	033035	14-1/4 x 25	3		D 033083				
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<b>Bravo One™</b>	465 HP .....1991 - 94
454 Magnum (385 HP) .....1995 & Newer	500 HP .....1993 & Newer
502 Magnum (390-415 HP) .....1990 & Newer	525 HP (SC) (490-500) .....1992 & Newer
450 HP .....1995	

**PROPELLER APPLICATION**

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

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

- n 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 for Michigan Match/Rapture, or page 18 for Ballistic.
- All suggestions are based upon single engine boats. Add 4" of pitch for twin applications.
- t 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.
- 1 Solid Hub Wave Propellers include forward thrust washer 9500-120 and should be used in place of the existing one.
- D 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.



**MERCURISER THRU 1982 ♦ 110-330 HORSEPOWER**

(See Footnote n)

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

225S, 233,  
255TRS, 260,  
280TRS, 330TRS

**PROPELLER APPLICATION**

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Stainless Michigan	Rapture Performance Dia. x Pitch	Blades	RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	RH	Stainless LH
24' & Up	16 R 13	3	48-36020A4	u 031034										
22-26' Bts. - AL	16 R 15	3	48-79570A4	u 031035			14-1/4 x 15	3	D	033072	D 033073	14-7/8 x 15	3	D 345131
21-25' Bts. - AL	15-3/4 R 17	3	48-79572A4	u 031036	t 033007		14-1/4 x 17	3	D	033074	D 033075	14-3/4 x 17	3	D 345132 D 345162
20-24' Bts. - AL	15-1/2 R 19	3	48-79574A4	u 031037	t 033008		14-1/4 x 19	3	D	033076	D 033077	14-1/2 x 19	3	D 345133 D 345163
19-23' Bts. - AL	15-1/4 R 21	3	48-79576A4	u 031038	t 033009		14-1/4 x 21	3	D	033078	D 033079	14-3/8 x 21	3	D 345134 D 345164
18-22' Bts. - AL	15 R 23	3	48-79578A4	u 031039			14-1/4 x 23	3	D	033080	D 033081	14-1/4 x 23	3	D 345135 D 345165
Up to 17' Bts. - AL							14-1/4 x 25	3	D	033082	D 033083	14-1/4 x 25	3	D 345136

**MERCURISER (THRU 1990 ONLY)**

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

**PROPELLER APPLICATION**

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

**MERCURISER - MODEL O**

HP Range - 60 HP  
For twin installations increase pitch 2.

**PROPELLER APPLICATION**

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

**MERCURISER I ('62-'63); MERCURISER 80, 90**

Up to 17' 10-1/4 R 13 3 48-38090A1 032087

HP range: 80-140 HP  
For twin installations increase pitch 2.

**PROPELLER APPLICATION**

Boat Description	Diameter Rot. & Pitch	Blades	Aluminum OEM	Part No. Michigan	Stainless OEM	Stainless Michigan	Rapture Performance Dia. x Pitch	Blades	RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	RH	Stainless LH
HB, Barges	13 R 11	3	48-35936A3	032089										
22-25' Bts.	13 R 13	3	48-58826A3	032090										
20-23' Bts.	13 R 15	3	48-32390A3	032091										
19-22' Bts.	13 R 17	3	48-65022A1	032092										

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

- n 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 for Michigan Match/Rapture, or page 18 for Ballistic.
- All suggestions are based upon single engine boats. Add 4" of pitch for twin applications.
- u LIMITED INVENTORY ON THESE ITEMS. Caution: Use standard trim tab 34127A1 (except for Rapture™ use 822777A1) and forward thrust washer 56292A2. These propellers fit 1983 and newer Alpha One™/Mercruiser™ applications provided thrust washer is changed to 56292A2.
- D 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.
- t Caution: Use standard trim tab 34127A1 (except for Rapture™ use 822777A1) and forward thrust washer 56292A2. These propellers fit 1983 and newer Alpha One™/Mercruiser™ applications provided thrust washer is changed to 56292A2.



## 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

### PROPELLER APPLICATION

Boat Description - (MPH)	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance			Ballistic High Performance		
			OEM	Michigan	OEM	Michigan	Stainless LH	Stainless RH	Stainless LH	Stainless RH	Stainless LH	Stainless RH
Workboats - (6-16)	14 R 11	3	382761	012047								
CR, HB - (14-26)	14 R 13	3	391668	011001								
19-22' Bts. - (24-37)	13-3/4 R 15	3	391198	011002	389949	013028	13-1/4 x 15	3	013076			
17-20' Bts. - (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' Bts. - (30-45)	13-3/8 R 17	3			389948	013030						
17-20' Bts. - (30-45)	14 R 17	3	176214	011024								
16-19' Bts. - (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' Bts. - (36-50)	14 R 19	3	176215	011025								
15-18' Bts. - (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' Bts. - (41-53)	14 R 21	3	176216	011026								

## MODEL 800, KING COBRA®, COBRA®

3.0 Litre .....1990 - 93	4.3 Litre .....1985 - 93
3.2 Litre (Diesel) .....1992 - 93	5.0 Litre .....1978 - 93
3.8 Litre .....1978 - 85	5.8 Litre (Cobra) .....1989 - 93

Includes H.O. & EFI Models

Use Thrust Washer 126870

(15 SPLINES & THRU HUB EXHAUST)

### PROPELLER APPLICATION

Boat Description - (MPH)	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance			Ballistic High Performance			
			OEM	Michigan	OEM	Michigan	Stainless LH	Stainless RH	Stainless LH	Stainless RH	Stainless LH	Stainless RH	
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' Bts. - (22-32)	15-1/2 R 15	3	391535	011006									
19-24' Bts. - (28-35)	15 R 15	3			174926	013052	14-1/4 x 15	3	013064		14-7/8 x 15	3 345031	
19-24' Bts. - (28-35)	15 L 15	3			174927	013051	14-1/4 x 15	3		013065			
18-24' Bts. - (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' Bts. - (30-39)	15 L 17	3			431930	013043	14-1/4 x 17	3		013067	14-3/4 x 17	3 345062	
17-20' Bts. - (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' Bts. - (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' Bts. - (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' Bts. - (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' Bts. - (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' Bts. - (45-56)							14-1/4 x 23	3		013073	14-1/4 x 23	3 345065	
High Performance - (50-60)							14-1/4 x 25	3	013074		14-1/4 X 25	3 345036	
High Performance - (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

## MODEL 800, KING COBRA®, COBRA®

Up to 17' High Perf. Lifting Hulls

Ballistic 3 XL 14-1/2 x 26 3 345038

5.7 Litre .....1978-93

7.5 Litre .....1987-90

5.8 Litre (King Cobra) .....1992-94

8.2 Litre .....1992-93

7.4 Litre .....1990-93

Includes H.O. & EFI Models

Use Thrust Washer 126870

(15 SPLINES & THRU HUB EXHAUST)

### PROPELLER APPLICATION

Boat Description - (MPH)	Diameter Rot. & Pitch	Blades	Aluminum Part No.		Stainless Part No.		Rapture Performance			Ballistic High Performance			
			OEM	Michigan	OEM	Michigan	Stainless LH	Stainless RH	Stainless LH	Stainless RH	Stainless LH	Stainless RH	
Heavy CR - (25-32)	15-1/2 R 13	3	391536	011016									
22-28' Bts. - (30-27)	15-1/2 R 15	3	391535	011006									
19-26' Bts. - (33-39)	15 R 15	3			174926	013052	14-1/4 x 15	3	013064		14-7/8 x 15	3 345031	
19-26' Bts. - (33-39)	15 L 15	3			174927	013051	14-1/4 x 15	3		013065			
19-26' Bts. - (35-46)	15 R 17	3	391200	011007	391290	013044	14-1/4 x 17	3	013066		143/4 x 17	3 345032	
19-26' Bts. - (35-46)	15 L 17	3			431930	013043	14-1/4 x 17	3		013067	143/4 x 17	3 345062	
18-24' Bts. - (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' Bts. - (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' Bts. - (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' Bts. - (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

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





## OMC SAILDRIVE® (PIN DRIVE)

### PROPELLER APPLICATION

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

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

HP Range: 120 to 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					

## 80-90 HP 2 CYCLE SMALL GEARCASE 1968 (PIN DRIVE) ♦ MARINE DRIVE SYSTEMS/RANGER

Suggestion: For twin installation increase pitch 2".

HP Range: 80 to 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					

u Small Hub Propeller - uses special nut part number 302001

## SEA DRIVES® 1982 & NEWER ♦ 4-1/4" GEARCASE

Suggestion: For twin installation increase pitch 2".

1.6 Litre (V-4) .....1982 & Newer

1.8 Litre (V-4) .....1987 & Newer

For twin installation increase pitch 2".

### PROPELLER APPLICATION

Boat Description - (MPH)	Diameter Rot. & Pitch	Blades	OEM	Aluminum Part No. Michigan	Stainless Part No. Michigan OEM	Rapture Performance Dia. x Pitch Blades	Stainless LH RH	Ballistic High Performance Dia. x Pitch Blades	Stainless LH RH
Barges, - HB - (1-18)	14 R 11	3	382761	012047					
26' and Up - (14-28)	14 R 13	3	391668	011001					
22-26' Bts. - (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' Bts. - (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' Bts. - (30-40)	13-3/8 R 17	3			389948	013030			
19-22' Bts. - (30-40)	14 R 17	3	176214	011024					
17-20' Bts. - (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' Bts. - (38-50)	14 R 19	3	176215	011025					

## SEA DRIVES® 1982 & NEWER ♦ 4-3/4" LARGE GEARCASE

15-18' Bts. - (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' Bts. - (44-56)	14 R 21	3	176216	011026					

### V-4 Engines

2.0 Litre .....1989 & Newer

### V-6 Engines

2.5 Litre .....1982 - 87

2.6 Litre .....1982 & Newer

2.7 Litre .....1987 & Newer

### V-6 Engines (Continued)

3.0 Litre .....1989 & Newer

### V-8 Engines

3.6 Litre .....1987 & Newer

4.0 Litre .....1989 & Newer

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

### PROPELLER APPLICATION

Boat Description - (MPH)	Diameter Rot. & Pitch	Blades	OEM	Aluminum Part No. Michigan	Stainless Part No. Michigan OEM	Rapture Performance Dia. x Pitch Blades	Stainless LH RH	Ballistic High Performance Dia. x Pitch Blades	Stainless LH RH
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	

## FOR OMC COBRA® (1994 & Newer), SX COBRA™, VOLVO PENTA SX™

SEE PAGE 50

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	

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



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

Motor HP	Gear Ratio	Thru 17'	Approximate Boat Length		
			18-21'	22-25'	Houseboats Barges
110-145 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

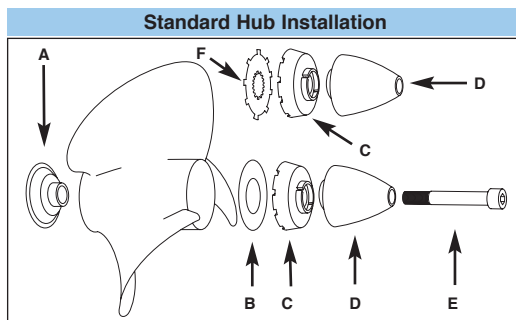
Long Hub Propellers						
Nearest Michigan Match™ OEM Equivalent (17 Spline)						
Dia. x Pitch	Rot.	Blades	Aluminum Part Number		Stainless Part Number	
			OEM	Michigan	OEM	Michigan
14 x 17	RH	3	854286-4	082002-1v		084006
14 x 17	LH	3	854977-6	082001-1v		
14 x 19	RH	3	854993-3	082004-1v		084008
14 x 19	LH	3	854978-4	082003-1v		
14 x 21	RH	3	851139-6	082010-1v		
14 x 21	LH	3	854979-2	082009-1v		
15 x 17	RH	3	854997-4	082012-1v		
15 x 17	LH	3	854982-6	082011-1v		
15 x 19	RH	3	854998-2	082014-1v		
15 x 19	LH	3	854983-4	082013-1v		
15 x 21	RH	3	854999-0	082016-1v		
15 x 21	LH	3	854984-2	082015-1v		
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	083002v
15-1/4 x 17	LH	3	SSV Series Stainless		852086-8v	083001v
15 x 19	RH	3	SSV Series Stainless		852138-7v	083004v
15 x 19	LH	3	SSV Series Stainless		852085-0v	083003v
14-1/2 x 21	RH	3	SSV Series Stainless		852137-9v	083006v
14-1/2 x 21	LH	3	SSV Series Stainless		852087-6v	083005v



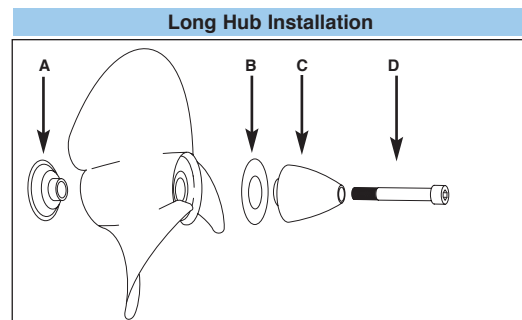
Standard Hub Propellers				
Nearest Michigan Match™ OEM Equivalent (17 Spline)				
Dia. x Pitch	Rot.	Blades	Aluminum Part Number	
			OEM	Michigan
14 x 15	RH	3	814631-8	082026-1
14 x 15	LH	3	814626-8	082025-1
14 x 17	RH	3	814632-6	082028-1
14 x 17	LH	3	814627-6	082027-1
14 x 19	RH	3	814633-4	082032-1
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 v.  
**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.

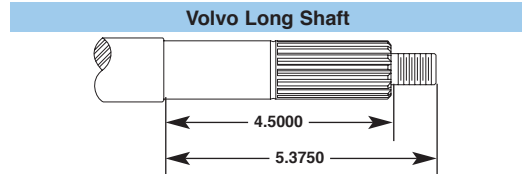
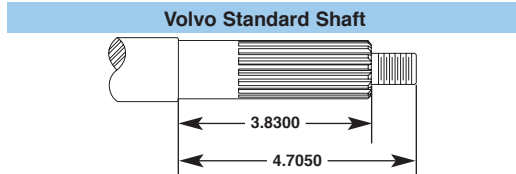
Long Hub Propellers are for use with model 275, 280 & 290 outdrives and late production 270 outdrives which have drilled propeller shaft.  
 Standard Hub Propeller installations are from outdrive serial #PZ2877179, and are NOT for use with V-6 diesel engines.  
 Propeller Hardware is available thru Volvo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



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



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





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

HP	Dia. x Pitch	Rot.	Blades	Aluminum Part Number	
				OEM	Michigan
HP Range: 110 - 150	14 x 10	LH	3	813226	<b>082057</b>
	14 x 12	LH	3	813228	<b>082045</b>

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

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

(19 SPLINE)

For twin engine applications, add 4" pitch.

#### PROPELLER APPLICATION

Boat Description - (MPH)	Diameter Rot. & Pitch	Blades	OEM Volvo	OEM OMC	Michigan AL	OEM Volvo	OEM OMC	Michigan SS	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
24-28' Bts. - (26-36)	15-1/2 R 15	3	3850299-3	3850299	<b>161001</b>											
24-28' Bts. - (26-36)	15 R 15	3				3850305-8	3850305	<b>163002</b>	14-1/4 x 15	3	<b>163012</b>	<b>163013</b>	14-7/8 x 15	3	<b>346031</b>	
22-27' Bts. - (34-44)	15 R 17	3	3850300-9	3850300	<b>161002</b>	3850307-4	3850307	<b>163004</b>	14-1/4 x 17	3	<b>163014</b>	<b>163015</b>	14-3/4 x 17	3	<b>346032</b>	<b>346062</b>
22-27' Bts. - (34-44)	15 L 17	3				3850316-5	3850316	<b>163003</b>								
19-25' Bts. - (39-50)	14-1/2 R 19	3	3850301-7	3850301	<b>161003</b>	3850308-2	3850308	<b>163006</b>	14-1/4 x 19	3	<b>163016</b>	<b>163017</b>	14-1/2 x 19	3	<b>346033</b>	<b>346063</b>
19-25' Bts. - (39-50)	14-1/2 L 19	3				3850317-3	3850317	<b>163005</b>								
17-22' Bts. - (39-50)	14-1/4 R 21	3	3850302-5	3850302	<b>161004</b>	3850309-0	3850309	<b>163008</b>	14-1/4 x 21	3	<b>163018</b>	<b>163019</b>	14-3/8 x 21	3	<b>346034</b>	<b>346064</b>
17-22' Bts. - (39-50)	14-1/4 L 21	3				3850318-1	3850318	<b>163007</b>								
17-20' Bts. - (44-57)	14-1/4 R 23	3			<b>161005</b>	3850310-8	3850310	<b>163010</b>	14-1/4 x 23	3	<b>163020</b>	<b>163021</b>	14-1/4 x 23	3	<b>346035</b>	<b>346065</b>
16-19' Bts. - (48-62)	14-1/4 L 23	3				3850319-9	3850319	<b>163009</b>	14-1/4 x 25	3	<b>163022</b>	<b>163023</b>	14-1/4 x 25	3	<b>346036</b>	

## YAMAHA

## STERNDRIVE



### 130-205 HORSEPOWER

3.0 L (130 HP) .....1989 - 93  
EST/PSR

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

#### PROPELLER APPLICATION

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

### 205-300 HORSEPOWER

5.0 L (205 HP) .....1989 - 93  
EST/PSR/YEMS  
5.7 L (260 HP) .....1989 - 93  
EST/PSR/YEMS

7.4 L (300 HP) .....1992 - 93  
Hydra Drive (EST)

#### PROPELLER APPLICATION

Boat Description - (MPH)	Diameter Rot. & Pitch	Blades	OEM	Aluminum Part No. Michigan	OEM	Stainless Part No. Michigan	Rapture Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH	Ballistic High Performance Dia. x Pitch	Blades	Stainless RH	Stainless LH
23-28' Bts. - (19-38)	15-1/4 R 15	3	6G5-45941-00-98	<b>101025</b>			14-1/4 x 15	3	<b>103044</b>	<b>103045</b>	14-7/8 x 15	3	<b>345931</b>	
22-27' Bts. - (24-42)	14-5/8 R 16	3	6G5-45952-00-98	<b>101026</b>										
21-26' Bts. - (29-45)	14-1/2 R 17	3	6G5-45947-01-98	<b>101027</b>	6G5-45978-03-98	<b>103018</b>	14-1/4 x 17	3	<b>103046</b>	<b>103047</b>	14-3/4 x 17	3	<b>345932</b>	<b>345962</b>
19-25' Bts. - (35-49)	14 R 9	3	6G5-45945-01-98	<b>101028</b>	6G5-45974-03-98	<b>103020</b>	14-1/4 x 19	3	<b>103048</b>	<b>103049</b>	14-1/2 x 19	3	<b>345933</b>	<b>345963</b>
18-23' Bts. - (41-56)	13-3/4 R 21	3	6G5-45943-01-98	<b>101029</b>	6G5-45972-03-98	<b>103022</b>	14-1/4 x 21	3	<b>103050</b>	<b>103051</b>	14-3/8 x 21	3	<b>345934</b>	<b>345964</b>
17-22' Bts. - (43-58)	13-1/2 R 23	3	6G5-45949-00-98	<b>101030</b>			14-1/4 x 23	3	<b>103052</b>	<b>103053</b>	14-1/4 x 23	3	<b>345935</b>	<b>345965</b>
Up to 17' Bts. - (45-59)							14-1/4 x 25	3	<b>103054</b>	<b>103055</b>				

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



# PROP-IT-RIGHT ANALYSIS FORM



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.

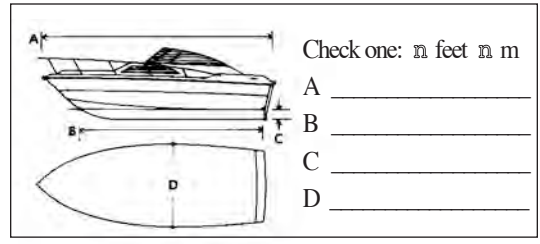
Name: \_\_\_\_\_  
 Street: \_\_\_\_\_  
 City/State: \_\_\_\_\_  
 Zip: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Date: \_\_\_\_\_

2685 Northridge Ave., Suite G, Grand Rapids, MI 49544  
 Phone: (616) 452-6941 Fax: (616) 246-1440

## PLEASURE BOAT – OUTBOARD & STERNDRIVE

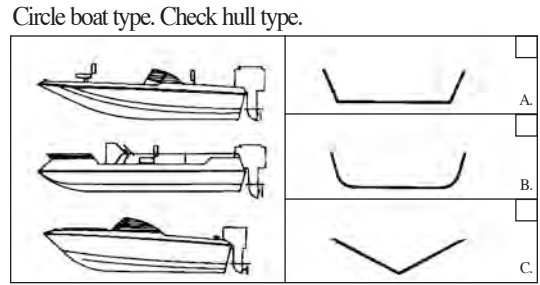
### Boat Data

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

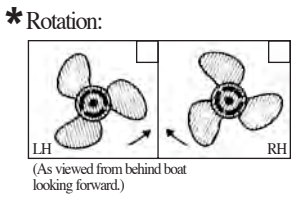
Motor – Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_  
 Year: \_\_\_\_\_  Gas  Diesel  
 \* Engine Mfg. Rating: \_\_\_\_\_ HP @ Engine Operating Range of \_\_\_\_\_ to \_\_\_\_\_ RPM (low to high)  
 Cubic Inch Displacement (CID): \_\_\_\_\_  
 \* Full-throttle RPM and speed produced with existing propeller:  
 RPM: \_\_\_\_\_ Speed: \_\_\_\_\_  
 \* Gear Ratio: \_\_\_\_\_ :1 \* No. of Engines:  Single  Twin  
 Does your boat have hydraulic power trim?  Yes  No



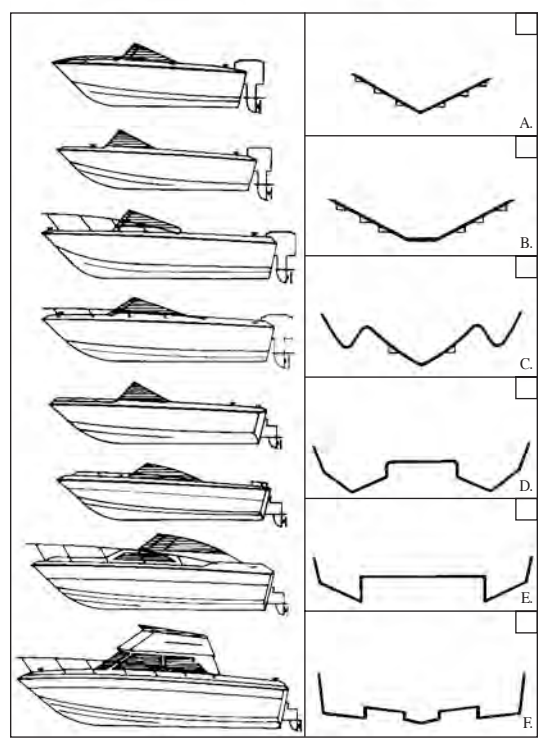
Stem Drive – Manufacturer: \_\_\_\_\_  
 Model: \_\_\_\_\_ Year: \_\_\_\_\_

### Propeller Data

\* Present Propeller: \_\_\_\_\_ diam. x \_\_\_\_\_ pitch Number of Blades: \_\_\_\_\_  
 Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_  
 Material:  Aluminum  Stainless Steel  Other: \_\_\_\_\_  
 Part No. \_\_\_\_\_  
 \* Shaft Size: \_\_\_\_\_



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



**For Michigan Wheel Corp. use only**

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



## LIMITED WARRANTY AND DISCLAIMER OF CERTAIN IMPLIED WARRANTIES

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

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

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

The above warranties are Michigan Wheel Corporation's sole express warranties for the Michigan Match™, Rapture™ and Ballistic™ Propeller. WITH RESPECT TO THE MICHIGAN MATCH™, RAPTURE™ AND BALLISTIC™ PROPELLERS, ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE LIFE OF THE MOTOR ORIGINALLY FITTED WITH THE PROPELLER. WITH RESPECT TO THE PROPELLER BUSHING ONLY, ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF PURCHASE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Michigan Wheel Corporation also excludes and disclaims all liability for incidental or consequential damages, loss of use of the propeller, costs, and expenses. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from State to State. Any actions arising out of this warranty and the sale of this 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**.





## **NEW Outboard and Sterndrive Warehouse**





## MICHIGAN WHEEL CORPORATION

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

### Outboard & Sterndrive Division

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Members NMDA, NMMA, NAMPS, NMPA, UMMA  
Members of the MIT/NAVY/INDUSTRIAL Consortium  
on Cavitation Performance of High Speed Propulsion

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