


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

Thru Hub Exhaust & 12 Tooth Spline


8 HP 4-Stroke .....2005 & Newer      9.8 HP 4-Stroke .....2005 & Newer

Boat Description/ Length	MICHIGAN MATCH						142103 	142102 Standard Replacement for: • MFS8 / NSF8 • MFS9.8 / NSF9.8 (Long Shaft)	142103 Standard Replacement for: • M8B / NS8B (Long Shaft) • M9.8B (Long Shaft) • MSF9.8 / NSF9.8 (Short Shaft)	Rubber Hub Bushing
	ALUMINUM PROPELLERS									
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #				
Heavy Loads	8-1/2	R	7	3	3B2B645140	142102				
Moderate Loads	8-1/2	R	8	3	3B2B645151	142103				

**9.9-20 HORSEPOWER • 2-1/2" GEARCASE**

Thru Hub Exhaust & 14 Tooth Spline



9.9 HP 2-Stroke .....1984 & Newer      15 HP 2-Stroke .....1985 & Newer      18 HP 4-Stroke .....2001-2008  
 9.9 HP 4-Stroke .....2000-2003      15 HP 4-Stroke .....2000 & Newer      20 HP 4-Stroke .....2007 & Newer  
 12 HP .....1985-1988      18 HP 2-Stroke .....1985 & Newer

Boat Description/ Length	MICHIGAN MATCH						142206 	142204 Standard Replacement for: • M9.9 / NS9.9 (Short Shaft) • MFS9.9 / NSF 9.9 (Short Shaft) • M15 / NS15 / (Short Shaft) • MFS15 / NSF15 (Long Shaft) • M18 / NS18 • MFS18 / NSF18 (Long Shaft) • MFS20 / NSF20 (Long Shaft)	142205 Standard Replacement for: • MFS15 / NSF15 (Short Shaft) • MSF18 / NSF18 (Short Shaft) • MSF20 / NSF20 (Short Shaft)	Rubber Hub Bushing
	ALUMINUM PROPELLERS									
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #				
15'-19' - AL	9-1/4	R	8	3	3BAB645161	142203	142203 Standard Replacement for: • M9.9 / NS9.9 (Long Shaft) • MSF9.9 / NSF9.9 (Long Shaft) • M15 / NS15 (Long Shaft)			
14'-17' - AL	9-1/4	R	9	3	362B641010	142204				
Up to 16' - LL	9-1/4	R	10	3	362B641080	142205				
Up to 16' - LL	9-1/4	R	11	3		142206				
Up to 16' - LL	9-1/4	R	12	3		142207				

**25-30 HORSEPOWER • 3" GEARCASE**

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

25 HP .....1986-2001      30 HP .....1985-2001      30 HP 4-Stroke .....2002 & Newer  
 25 HP 4-Stroke .....2002 & Newer      30 HP TLDI .....2016 & Newer

Boat Description/ Length	MICHIGAN VORTEX						Drop-In Hub Use XHS® Hub Kit <b>122</b>  <b>MUST USE GEARCASE ADAPTER RING SUPPLIED WITH PROPELLER.</b>	991244 - Gearcase Adapter Rings  992504 Vortex® XHS® Aluminum Propeller	141305 Standard Replacement for: • M25 / NS25 (Long Shaft) • M30 / NS30 (Long Shaft)	141306 Standard Replacement for: • M25 / NS25 (Short Shaft) • M30 / NS30 (Short Shaft)	Rubber Hub Bushing
	ALUMINUM - E SERIES PROPELLERS										
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #					
16'-20' - AL	10-1/2	R	9	3	346-64101-5	992501					
14'-18' - AL	10-1/2	R	10	3	346-64102-5	992502					
14'-18' - AL	10-1/2	R	11	3	346-64103-5	992503					
14'-18' - AL	10-1/8	R	12	3		992504					
12'-16' - AL	10-1/8	R	13	3	346-64104-5	992505					
12'-16' - AL	10-1/8	R	14	3		992506					
16'-20' - AL	9-7/8	R	9	3	3R0B645180	141304					
16'-20' - AL	9-7/8	R	10	3	3R0B645210	141307					
12'-16' - AL	9-7/8	R	11	3	3R0B645230	141305					
12'-16' - AL	9-7/8	R	12	3	3R0B645250	141308					
Up to 16' - LL	9-7/8	R	13	3	3R0B645270	141306					
Up to 16' - LL	9-7/8	R	14-1/4	3	349B645291	142309					

**35-50 HORSEPOWER • 3-1/4" GEARCASE**

Thru Hub Exhaust & 13 Tooth Spline

35 HP (35B Only) ..... Thru 1984  
40 HP (Includes TLDI; 40C; M40D; MD40)..... 1984 & Newer

MFS40 ..... 2015 & Newer  
50 HP (Except 50C - Includes TLDI; M50D; MD50)..... 1992 & Newer

MSF50 ..... 2015 & Newer  
BFT60 ..... 2014 & Newer

**MICHIGAN**  
VORTEX

ALUMINUM - D SERIES PROPELLERS

3-BLADE				LG. DIAMETER 3-BLADE				4-BLADE			
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #
								11-1/2	R	8	992401
				12-1/4	R	9	992601	11-1/2	R	9	992402
				11-3/4	R	10	992602	11-1/2	R	10	992403
10-3/8	R	11	992404	11-5/8	R	11	992603	<b>4-BLADE</b>			
10-3/8	R	12	992405	11-3/8	R	12	992604	10-5/8	R	12	941212
10-3/8	R	13	992406	11-1/8	R	13	992605	10-3/8	R	13	941213
10-3/8	R	14	992407	11-1/4	R	14	992606	10-1/8	R	14	941214
10	R	15	992408					10-1/8	R	15	941215
10	R	16	992409								

Drop-In Hub  
Use XHS® Hub Kit  
**116**

Refer to Pages 55-56 for Details on Hub Kit Components.

**MICHIGAN**  
APOLLO

STAINLESS STEEL - D SERIES PROPELLERS

Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
10-3/4	R	12	3	PT4050P12	993405
10-1/2	R	13	3	PT4050P13	993406
10-3/8	R	14	3	PT4050P14	993407
10-1/8	R	15	3	PT4050P15	993408

Drop-In Hub  
Use XHS® Hub Kit  
**116**

Refer to Pages 55-56 for Details on Hub Kit Components.

**MICHIGAN**  
MATCH

ALUMINUM PROPELLERS

Boat Description/ Length	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
19'-21' - AL	12-1/4	R	9	3	3T5B645180	142407
17'-20' - AL	11-3/4	R	10	3		142408
16'-19' - AL	11-5/8	R	11	3	3T5B645230	*142405
15'-18' - AL	11-3/8	R	12	3	3T5B645250	*142409
14'-18' - AL	11-1/8	R	13	3	3T5B645270	*142406
14'-16' - AL	11-1/4	R	14	3	3T5B645290	142410
13'-15' - LL						

Rubber Hub Bushing

**MICHIGAN**  
BALLISTIC

STAINLESS STEEL - D SERIES PROPELLERS

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

Drop-In Hub  
Use XHS® Hub Kit  
**116**

\* 142405 Standard Replacement for M40C / NS40C; 142409 Standard Replacement for M40D / NS40D; 142406 Standard Replacement for MD50 / NS50D

**50-70 HORSEPOWER • 3-1/4" GEARCASE**

Thru Hub Exhaust & 13 Tooth Spline

50 HP (50C Only) ..... 1987-1991  
55 HP ..... 1981-1988

60A & 60B (Excludes 60C) ..... 1986-1999  
For 60C & 70C, See 60-140 HP (Pg. 31).

70A & 70B (Excludes 70C) ..... 1981-1995

**MICHIGAN**  
VORTEX

ALUMINUM - C SERIES PROPELLERS

3-BLADE				LG. DIAMETER 3-BLADE				4-BLADE			
Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #	Dia.	Rot.	Pitch	Part #
								11-1/2	R	8	992401
								11-1/2	R	9	992402
								11-1/2	R	10	992403
11-3/4	R	13	992301	12-1/2	R	13	992311				
11-3/4	R	15	992302	12-1/4	R	15	992312				
11-3/4	R	17	992303								

Drop-In Hub  
Use XHS® Hub Kit  
**112**

Refer to Pages 55-56 for Details on Hub Kit Components.



Drop-In Hub  
Use XHS® Hub Kit  
**112**

Refer to Pages 55-56 for Details on Hub Kit Components.

**MICHIGAN**  
BALLISTIC

STAINLESS STEEL - C SERIES PROPELLERS

Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
12-3/8	R	15	3		* 933315
12	R	17	3		* 933317

Drop-In Hub  
Use XHS® Hub Kit  
**112**

\* May interfere with trim tab.

**60-90 HORSEPOWER • 4-1/4" GEARCASE**

Thru Hub Exhaust & 15 Tooth Spline

BFW60.....2014 & Newer

BFT75.....2014 & Newer

BFT90.....2014 & Newer

MICHIGAN VORTEX							MICHIGAN APOLLO								
3-BL ALUMINUM - B SERIES							4-BL ALUMINUM - B SERIES				STAINLESS STEEL - B SERIES PROPELLERS				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
14	R	10	3	992109											
14	R	11	3	992111	13-7/8	R	11	4	941411						
14	R	13	3	992112	13-7/8	R	13	4	941413						
13-3/4	R	15	3	992113	13-3/8	R	15	4	941415	13-3/8	R	15	3		993143
										13-3/8	L	15	3		993153
13-1/4	R	17	3	992114	13	R	17	4	941417	13-1/4	R	17	3		993144
										13-1/4	L	17	3		993154
13	R	19	3	992115	12-1/2	R	19	4	941419	13-1/8	R	19	3		993145
										13-1/8	L	19	3		993155
12-3/4	R	21	3	992116						13	R	21	3		993146
										13	L	21	3		993156

Boat Description/Length	MICHIGAN MATCH ALUMINUM PROPELLERS						Rubber Hub Bushing	MICHIGAN BALLISTIC STAINLESS STEEL - B SERIES PROPELLERS									
	3-BLADE BALLISTIC			3-BLADE BALLISTIC XL				3-BLADE BALLISTIC					3-BLADE BALLISTIC XL				
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #		Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
25' & Up - AL	14	R	10	3		031061											
25' & Up	14	R	11	3		031254											
22' & Up	14	R	13	3		031055											
19'-24' - AL	13-3/4	R	15	3		031041						13-5/8	R	15	3	* 933415	
17'-20' - AL, SK	13-1/4	R	17	3		031142						13-1/2	R	17	3	* 933417	
16'-19' - AL	13	R	19	3		031043						13-3/8	R	19	3	* 933419	
15'-18' - AL	12-3/4	R	21	3		031044						13-1/8	R	21	3	* 944341	13-1/2 R 22 3 * 953422
Up to 17' - LL	12-1/2	R	23	3		* 031045						13-1/2	R	24	3	* 953424	

**Note:** \* May interfere with trim tab.

Drop-In Hub  
Use XHS II® Hub Kit  
**207**  
USE Gearcase Adapter Ring supplied with propeller.  
Refer to Pages 55-56 for Details on Hub Kit Components.

Drop-In Hub  
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NISSAN / TOHATSU



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

\* Limited Inventory Item.

**60-140 HORSEPOWER • 4-1/4" GEARCASE**

Thru Hub Exhaust & 15 Tooth Spline

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

MICHIGAN VORTEX						MICHIGAN APOLLO									
3-BL ALUMINUM - B SERIES			4-BL ALUMINUM - B SERIES			STAINLESS STEEL - B SERIES PROPELLERS									
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
14	R	10	3	992109											
14	R	11	3	992111	13-7/8	R	11	4	941411						
14	R	13	3	992112	13-7/8	R	13	4	941413						
13-3/4	R	15	3	992113	13-3/8	R	15	4	941415	13-3/8	R	15	3	PT70115P15	993143
										13-3/8	L	15	3		993153
13-1/4	R	17	3	992114	13	R	17	4	941417	13-1/4	R	17	3	NM889610170	993144
										13-1/4	L	17	3		993154
13	R	19	3	992115	12-1/2	R	19	4	941419	13-1/8	R	19	3		993145
										13-1/8	L	19	3		993155
12-3/4	R	21	3	992116						13	R	21	3		993146
										13	L	21	3		993156

Boat Description/Length	MICHIGAN MATCH						MICHIGAN BALLISTIC					
	ALUMINUM PROPELLERS						STAINLESS STEEL - B SERIES PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
22'-29' - AL	13-5/8	R	13	3	3N4B645271	142213						
21'-26' - AL	13-1/2	R	15	3	3N4B645321	142215	13-5/8	R	15	3		933415
18'-21' - AL	13-1/4	R	17	3	3N4B645361	141217	13-1/2	R	17	3		933417
17'-20' - AL	13	R	19	3	3N4B645411	141219	13-3/8	R	19	3		933419
15'-18' - AL	12-5/8	R	21	3	3N4B645451	141221	13-1/8	R	21	3		933421

Drop-In Hub  
Use XHS II® Hub Kit  
**209**  
USE Gearcase Adapter Ring supplied with propeller.  
Refer to Pages 55-56 for Details on Hub Kit Components.

Drop-In Hub  
Use XHS II® Hub Kit  
**209**  
USE Gearcase Adapter Ring supplied with propeller.  
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Rubber Hub Bushing

Drop-In Hub  
Use XHS II® Hub Kit  
**209**

NISSAN / TOHATSU

**Did You Know?**

You can get assistance sizing a propeller, find your nearest Michigan Wheel dealer, and much more at [www.miwheel.com](http://www.miwheel.com).



MICHIGAN MATCH



MICHIGAN VORTEX



MICHIGAN APOLLO



MICHIGAN BALLISTIC

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

**115-250 HORSEPOWER • 4-3/4" GEARCASE**

Thru Hub Exhaust & 15 Tooth Spline

BFT115 .....2014 & Newer  
BFT150 .....2014 & Newer

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

BFT250 .....2014 & Newer

<b>MICHIGAN VORTEX</b>									
3-BL ALUMINUM - A SERIES					4-BL ALUMINUM - A SERIES				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
16	R	13	3	992001					
15-1/4	R	15	3	992002					
16	R	16	3	931516					
15	R	17	3	992003	15	R	16	4	992202
14-1/2	R	19	3	992004	14-1/2	R	18	4	992203
14-1/4	R	21	3	992005	14	R	20	4	992204
14	R	23	3	992006					

**Drop-In Hub**  
**Use XHS II® Hub Kit**  
**207**  
Refer to Pages 55-56 for Details on Hub Kit Components.

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

**Drop-In Hub**  
**Use XHS II® Hub Kit**  
**207**  
Refer to Pages 55-56 for Details on Hub Kit Components.

Boat Description/ Length	<b>MICHIGAN MATCH</b>					
	ALUMINUM PROPELLERS					
	Dia.	Rot.	Pitch	Bld #	OEM Part #	Part #
CR, HB	16	R	13	3	58130-ZY3-013A	031513
21'-24' - AL	15-1/4	R	15	3	58130-ZY3-015A	031023
20'-23' - AL, SK	16	R	16	3		031516
19'-23' - AL, SK	14-1/2	R	17	3	58130-ZY3-017A	031024
19'-23' - AL, SK	15	R	17	3		031064
19'-22' - AL, SK	15-1/2	R	18	3		031052
18'-22' - AL, SK	14	R	19	3	58130-ZY3-019A	031025
18'-22' - AL, SK	14-1/2	R	19	3		031065
18'-20' - AL, SK	13-3/4	R	21	3	58130-ZY3-021A	031026
18'-20' - AL, SK	14-1/4	R	21	3		031066
17'-20' - AL, SK						
17'-20' - AL, SK						
Up to 18'						
High Performance						
High Performance						
High Perf. (EFI)						
High Performance						
High Performance						
High Perf. (EFI)						

**Rubber Hub Bushing**

<b>MICHIGAN BALLISTIC</b>									
STAINLESS STEEL - A SERIES PROPELLERS									
3-BLADE BALLISTIC					3-BLADE BALLISTIC XL				
Dia.	Rot.	Pitch	Bld #	Part #	Dia.	Rot.	Pitch	Bld #	Part #
14-7/8	R	15	3	933515					
14-3/4	R	17	3	933517					
14-3/4	L	17	3	937517					
14-1/2	R	19	3	933519					
14-1/2	L	19	3	937519					
14-3/8	R	21	3	933521					
14-3/8	L	21	3	937521					
14-1/4	R	23	3	933523					
14-1/4	L	23	3	937523					
14-1/4	R	25	3	933525					
					14-3/4	R	22	3	953522
					14-3/4	R	24	3	953524
					14-3/4	R	26	3	953526
					4-BLADE BALLISTIC XL				
					14-1/8	R	23	4	963523
					14-1/8	R	25	4	963525
					14-1/8	R	27	4	963527

**Drop-In Hub**  
**Use XHS II® Hub Kit**  
**207**  
Refer to Pages 55-56 for Details on Hub Kit Components.



NISSAN / TOHATSU

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