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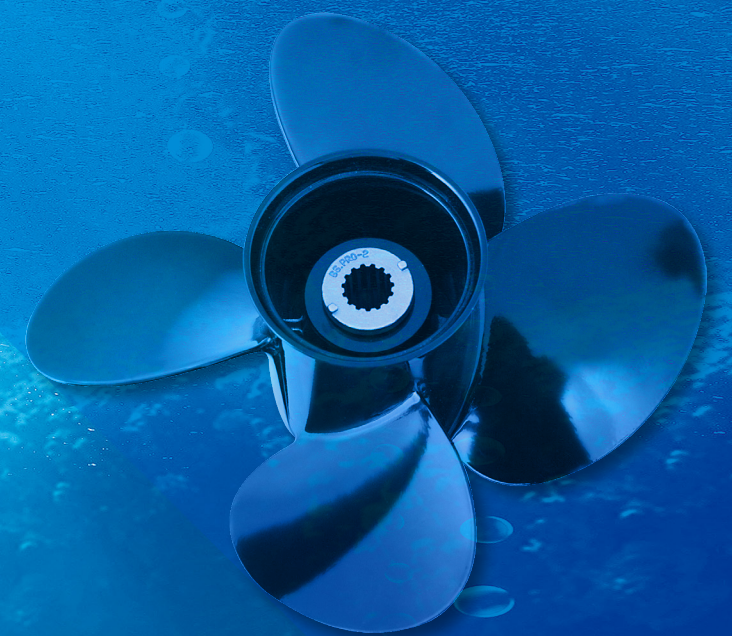


Pro's Choice



BS.PRO

ALUMINUM PROPELLER



 **BS.PRO**
BaekSan Propeller Co., Ltd.

Gamjeoncheon-ro 227, Sasang-gu, Busan, South Korea.
Tel. 82-51-311-4167 Fax. 82-51-313-4983 www.bspp.co.kr
Made in Korea

BS201021-E

 **BS.PRO**
BaekSan Propeller Co., Ltd.



BS.PRO

Your choice for Outstanding **Performance!**

Advanced **Quality!**

Economical **Efficiency!**

BaekSan Propeller Co., Ltd.

Pro's Choice

BaekSan Propeller Co., Ltd. is a leading manufacturer that specializes in aluminum propellers for the boating industry.

BaekSan Propeller Co., Ltd. was established in 1984 and many years of manufacturing experience has brought us the technical know-how to realize the excellent quality.

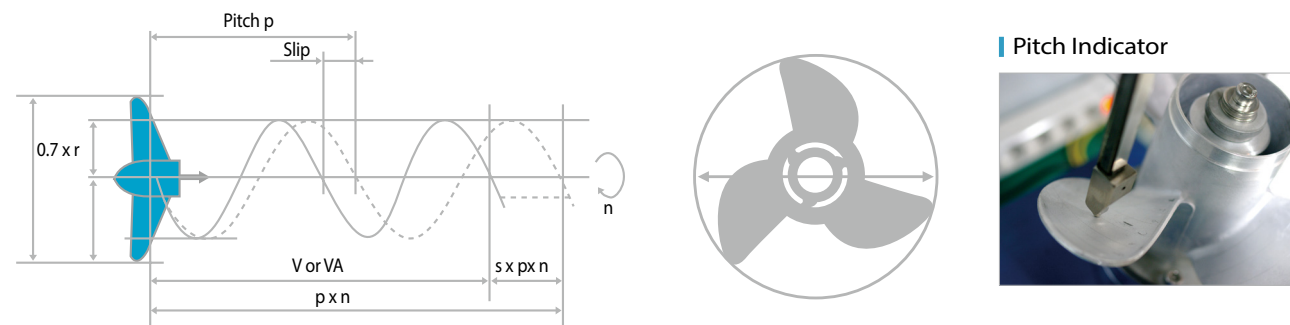
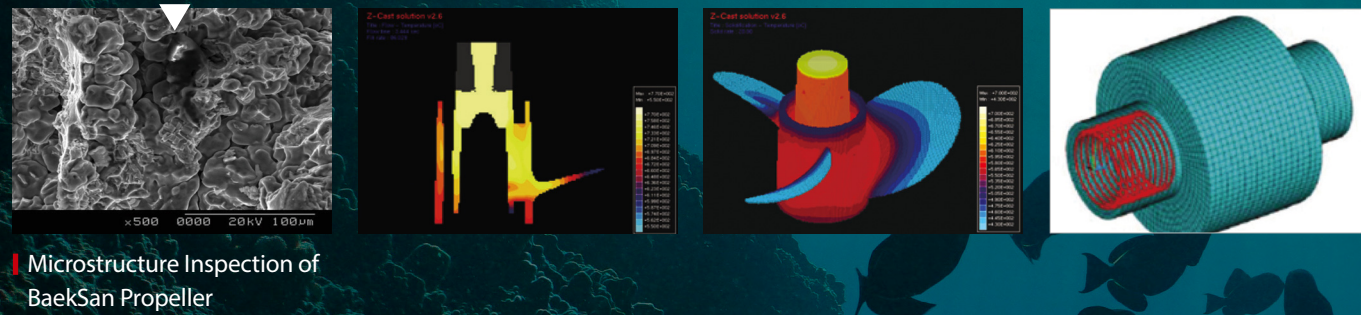
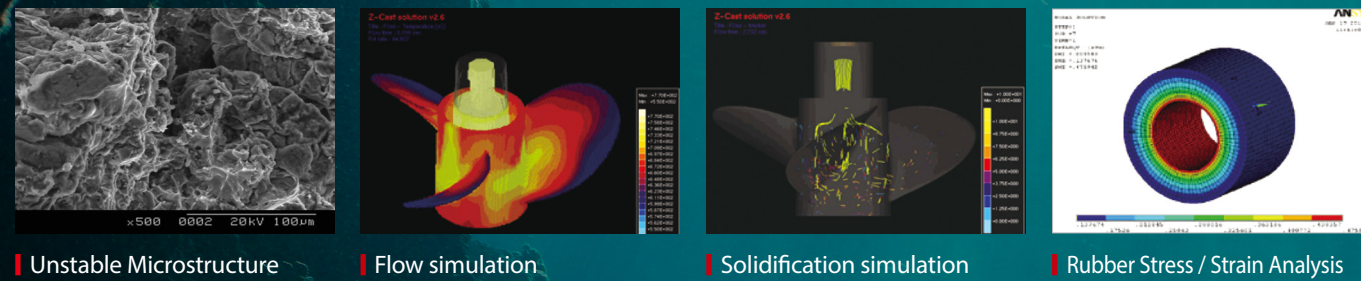
Our wide selections of aluminum propellers are being exported to many countries throughout the world under our own brand **BS.PRO** earning the good reputation in every market.

It is no wonder that our market share is rapidly growing worldwide.

Our high performance aluminum propellers for outboard and stern-drive applications provide the strong durability and the strong corrosion resistance.

Our **BS.PRO** propellers will provide you with the pleasure of water leisure sports and the safest and the most comfortable sailing.

BEST QUALITY AND GOOD SERVICE



BaekSan Propeller Co., Ltd. does the constant R&D activity and keeps investing in the equipment to provide the customers with the better quality aluminum propellers. We provide our customers with good service and share the technical information and market information with our customers, and we have our goal oriented to what our customers want.

If you use **BS.PRO** propellers proven as the best quality in the market, your water leisure sports will be much pleasanter and your water transportation will be much safer and more comfortable.

HOW TO CHOOSE PROPELLER FOR BOAT

- Anti-singing edge
- Precision balanced blades significantly reduce vibration.
- High gloss powder coat protects aluminum. Minimized speed loss from drag, reduces corrosion and looks great on any boats.
- Cupped trailing edge to better grab and hold water, dramatically enhancing the performance and efficiency.
- Rubber cushion hub system
- Exchangeable hub kit system is also available for Mercury D & E class propellers and Honda D & E class propellers.
- High performance blade geometry, higher degree rake and progressive pitch design results in a better combination of top end speed and dead start acceleration.
- Optimal blade thickness.
- Each blade is carefully engineered thin enough to maximize performance but thick enough to provide long lasting durability.
- Flared hub design keeps exhaust from causing speed-robbing ventilation blow-out.

BS. PRO PROPELLERS

HOW TO USE THIS CATALOGUE

Outboard Propeller



- Special aluminum alloy



- Pin type aluminum propeller



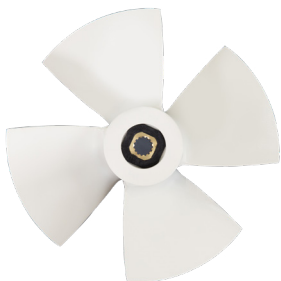
- BaekSan 4 blade propellers provide extra power and better performance with smooth steering.



Sterndrive Propeller



Thruster Propeller



How to choose the correct pitch

- 01

Check the RPM range recommended by outboard manufacturer in the manual.
- 03

If maximum RPM exceeds the recommended range, please lower the RPM by using one level higher pitch propeller. Repeat this procedure to figure out the appropriate pitch propeller.

- 02

Check the maximum RPM range by reading the instrument panel to determine the optimal pitch and speed.
- 04

If maximum RPM is lower the recommended range, please raise the RPM by using one level lower pitch propeller. Repeat this procedure to figure out the appropriate pitch propeller.

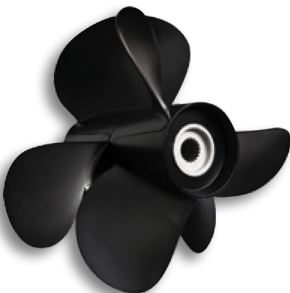
- If the original propeller part number (OEM part number) is known and a size or style change is not desired, then check to OEM Part No. on each BRAND pages.
- If the original propeller part number (OEM part number) is not known or a propeller size or style change is desired, use the following procedure for selecting a propeller.

- 01 Locate the BRAND of outboard or sterndrive engine using the table of contents.
- 02 Locate the Horse Power, Engine Model, Year that corresponds with the engine brand.
- 03 Select the propeller Diameter, Pitch that best meets your vessel and usage.
- 04 If you select Hub Kit propeller, Hub Kit indicated must be ordered.

1 MERCURY / MARINER

Class	Outboard Engine	Description	OEM Part No.	Blds	Remarks	
C		2 [25-70hp] • Model 402, 500, & 700 1977 - 1984 • 25hp (Bigfoot 4 stroke) 1999 - 2005 • 30hp (2 & 4 stroke) 1994 - 2005 • 35hp 1984 - 1989 • 40hp (2 & 4 stroke, Not Bigfoot) 1977 & Newer • 45hp 1986 - 1989 • 48hp (Mariner) All years • 50hp (2 & 4 stroke, Not Bigfoot) 1977 & Newer • 55hp 1995 & Newer • 60hp (2 stroke) 1978 & Newer • 60hp (4 stroke, Not Bigfoot) 2001 & Newer • 70hp thru 1983 Thru Hub Exhaust, 13 tooth spline	M55 12 1/4 X 9	48-87818A10	3	Rubber Bushing
			M55 12 X 10 1/2	48-42740A10	3	
			M55 11 1/4 X 10	48-73132A40	3	
			M55 10 7/8 X 11	48-85623A40	3	
			M40 10 5/8 X 12	48-73134A40	3	
			M40 10 3/8 X 13	48-73136A40	3	
			M40 11 1/8 X 13	48-816704A40	3	
			M40 10 1/4 X 14	48-73138A40	3	
			M40 10 3/8 X 14	48-816706A40	3	Hub Kit (BH-MC)
			M40 10 1/8 X 15	48-73140A45	3	
			U40 12 1/4 X 9		3	
			U40 11 3/4 X 10		3	
			U40 11 5/8 X 11		3	
			U40 11 3/8 X 12		3	
			U40 11 1/8 X 13		3	
			U40 11 1/4 X 14		3	

BS DUO

Class	Stern-Drive	BaekSan Part No.	OEM Part No.	Blds	Remarks				
DUO	 • Diesel applications • DP 280, 290 Drives Front prop - Three blades Rear prop - Four blades	A3	BS-A3F	854766	854776	3	Rubber Bushing		
			BS-A3R		854786	4			
		A4	BS-A4F	854767	854777	3			
			BS-A4R		854787	4			
		A5	BS-A5F	854768	854778	3			
			BS-A5R		854788	4			
		A6	BS-A6F	854769	854779	3			
			BS-A6R		854789	4			
		A7	BS-A7F	854770	854780	3			
			BS-A7R		854790	4			
			 • Gasoline applications • DP 280, 290 Drives Front prop - Three blades Rear prop - Three blades	B3	BS-B3F	854816		854824	3
					BS-B3R			854832	3
				B4	BS-B4F	854817		854825	3
					BS-B4R			854833	3
B5	BS-B5F			854818	854826	3			
	BS-B5R				854834	3			
B6	BS-B6F			854819	854827	3			
	BS-B6R				854835	3			
B7	BS-B7F			854820	854828	3			
	BS-B7R				854836	3			
SX Drive	 4-3/4" Gearcase • 3.0L 1994 & Newer • 4.3L 1994 & Newer • 5.0L 1994 & Newer • 5.7L 1994 & Newer • 5.8L 1994-1997 • 7.4L 1997 & Newer • 8.2L 1997 Thru Hub Exhaust, 19 tooth spline			SX 15 1/2 X 13		3840720	3	Rubber Bushing	
				SX 15 1/2 X 15		3817466	3		
				SX 15 X 17		3817467	3		
				U150 15 1/4 X 15		48-78116A45	3	Hub Kit (BH-SX)	
		U135 15 X 17		48-832828A45	3				
		U150 14 1/2 X 19		48-832830A45	3				
		U150 14 1/4 X 21		48-832832A45	3				
		U150 14 X 23		48-832834A45	3				
		4U150 15 X 16		48-834850A45	4				
		4U150 14 1/2 X 18		48-834852A45	4				
		4U150 14 X 20		48-834854A45	4				

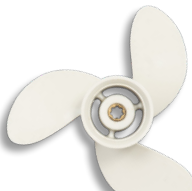
MERCRUISER

Class	Stern-drive	Description	OEM Part No.	Blds	Remarks
E	 • 4-3/4" Gearcase • Fits MerCruiser Sterndrives Alpha One Sterndrives Bravo One Sterndrives Thru hub exhaust, 15 tooth spline	U150 16 X 13	48-78114A45	3	Hub Kit (BH-ME)
		U150 15 1/4 X 15	48-78116A45	3	
		U150 16 X 16	48-16440A45	3	
		U135 15 X 17	48-832828A45	3	
		U150 14 1/2 X 19	48-832830A45	3	
		U150 14 1/4 X 21	48-832832A45	3	
		U150 14 X 23	48-832834A45	3	
		4U150 15 X 16	48-834850A45	4	
		4U150 14 1/2 X 18	48-834852A45	4	
F	 • Fits Bravo Two Sterndrives Thru hub exhaust, 19 tooth spline	M300 18 3/4 X 17 LH	48-18613A40	3	Rubber Bushing
		M300 18 3/4 X 17 RH	48-18612A40	3	
		M300 18 1/4 X 19 LH	48-18615A40	3	
		M300 18 1/4 X 19 RH	48-18614A40	3	
		M300 17 3/4 X 21 LH	48-18617A40	3	
		M300 17 3/4 X 21 RH	48-18616A40	3	
		M300 17 1/2 X 23 LH	48-18619A40	3	
		M300 17 1/2 X 23 RH	48-18618A40	3	

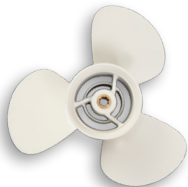
O.M.C.

Class	Stern-drive	Description	OEM Part No.	Blds	Remarks
D	 4-1/4" Gearcase Model 400 • 2.3 L (120hp) thru 1991 • 2.5 L (120hp) 1978-1984 • 3.0 L (140hp) thru 1989 Cobra • 2.3 L (128hp) 1988-1991 • 2.5 L (120hp) 1985-1987 • 3.0 L (140hp) 1985-1987 Sea Drive 1982 & Newer • 1.6L V-4 1982 & Newer • 1.8L V-4 1987 & Newer Thru hub exhaust, 13 tooth spline	J70 14 X 13	391668	3	Rubber Bushing
		J70 13 3/4 X 15	391198	3	
		J70 13 1/4 X 17	763463	3	
		J70 14 X 17	176214	3	
E	 4-3/4" Gearcase Model 800, Cobra, King Cobra • 3.0L - 8.2L (non SX drives) 1990-1993 • Cobra 5.8 L 1990-1993 • Sea Drive 2.0 - 4.0 L All Years Thru hub exhaust, 15 tooth spline ** For the models prior to year 1990, the thrust washer for MerCruiser Alpha One is required.	J150 15 1/2 X 13	763453	3	Rubber Bushing
		J150 15 1/2 X 15	391535	3	
		J150 15 X 17	391200	3	
		U150 15 1/4 X 15	48-78116A45	3	Hub Kit (BH-JE)
		U135 15 X 17	48-832828A45	3	
		U150 14 1/2 X 19	48-832830A45	3	
		U150 14 1/4 X 21	48-832832A45	3	
		U150 14 X 23	48-832834A45	3	
		4U150 15 X 16	48-834850A45	4	
		4U150 14 1/2 X 18	48-834852A45	4	
		4U150 14 X 20	48-834854A45	4	

YAMAHA

Class		Outboard Engine	Description	OEM Part No.	Blds	Mark	Remarks
Y5		[4 - 6 hp] • 4hp (2 stroke) 1986-1999 • F4hp (4 stroke) 1999 & Newer • 5hp (2 stroke) 1995-2002 • F6Ahp (4 stroke, 1cyl) 2011 & Newer Non-thru Hub Exhaust, 9 tooth spline	Y5 7 1/2 X 7	6E0-45943-01-EL	3	BA	Rubber Bushing
			Y5 7 1/2 X 8	6E0-45941-01-EL	3	BA	
Y8		[6 - 9.9 hp] • 6hp (2 stroke) 1986-2000 • F6hp (4 stroke) 2001-2010 • 8hp (2 stroke) 1986-2009 • F8hp (4 stroke) 2001 & Newer • F9.9hp (4 stroke) 2008 & Newer Thru Hub Exhaust, 7 tooth spline	Y8 8 1/2 X 8 1/2	6G1-45941-00-00	3	N	Rubber Bushing
			Y8 8 1/2 X 9 1/4	6G1-45954-00-00	3	N	
A		[9.9 - 20 hp] 2-1/2" Gearcase • 9.9hp (2 stroke) 1984-2009 • F9.9hp (4 stroke) 2000-2007 • 15hp (2 stroke) 1984-2009 • F15hp (4 stroke) 1998 & Newer • F15C 2007 & Newer • F20hp (4 stroke) 2007 & Newer Thru Hub Exhaust, 8 tooth spline	Y15 9 1/4 X 8	683-45947-00-EL	3	J	Rubber Bushing
			Y15 9 1/4 X 9	683-45945-00-EL	3	J	
			Y15 9 1/4 X 9 3/4	683-45952-00-EL	3	J	
			Y15 9 1/4 X 10 1/2	683-45943-00-EL	3	J	
			Y15 9 1/4 X 11	63V-45943-10-00	3	J1	
			Y15 9 1/4 X 12	63V-45941-10-EL	3	J	
B		[20 - 30 hp] 3" Gearcase • 20hp 1996-1997 • 25hp 1980 & Newer • F25hp (4 stroke) 1998-2006 2010 & Newer • 30hp 1983 – 2002 Thru Hub Exhaust, 10 tooth spline	Y30 9 7/8 X 9	664-45941-01-EL	3	F	Rubber Bushing
			Y30 9 7/8 X 10 1/2	664-45945-00-EL	3	F	
			Y30 9 7/8 X 11 1/4	664-45947-01-EL	3	F	
			Y30 9 7/8 X 12	664-45954-01-EL	3	F	
			Y30 9 7/8 X 13	664-45949-02-EL	3	F	
			Y30 9 7/8 X 14	664-45952-00-EL	3	F	
C		[25 - 60 hp] 3-1/2" Gearcase • T25hp 2010 & Newer • F30hp (4 stroke) 2001-2005 2015 & Newer • 40hp (includes C40) 1984 & Newer • F40hp (4 stroke) 1999 & Newer • 48hp 1995 & 2000 • 50hp (not T50) 1984 & Newer • F50hp (4 stroke) 1995 & Newer • 55hp 1976-1995 • 60hp 1976-1991 • F60hp (4 stroke) 1999 & Newer Thru Hub Exhaust, 13 tooth spline	Y40 12 1/4 X 9	663-45956-01-EL	3	G	Rubber Bushing
			Y40 11 3/4 X 10	663-45954-01-EL	3	G	
			Y40 11 5/8 X 11	663-45947-02-EL	3	G	
			Y40 10 5/8 X 12	6H5-45952-00-EL	3	G	
			Y40 11 3/8 X 12	663-45952-02-EL	3	G	
			Y40 10 3/8 X 13	6H5-45945-00-EL	3	G	
			Y40 11 1/8 X 13	663-45945-02-EL	3	G	
			Y40 10 1/4 X 14	6H5-45958-00-EL	3	G	
			Y40 11 1/4 X 14	663-45958-01-EL	3	G	
			Y40 11 X 15	69W-45943-00-EL	3	G	
	 		U40 12 1/4 X 9		3		Hub Kit (BH-YC)
			U40 11 3/4 X 10		3		
			U40 11 5/8 X 11		3		
			U40 11 3/8 X 12		3		
			U40 11 1/8 X 13		3		
			U40 11 1/4 X 14		3		
			4U40 10 5/8 X 12	48-8M8026625	4		
			4U40 10 3/8 X 13	48-8M8026630	4		
			4U40 10 1/8 X 14	48-8M8026635	4		
			4U40 10 1/8 X 15	48-8M8026640	4		

YAMAHA

Class	Outboard Engine	Description	OEM Part No.	Blds	Mark	Remarks	
A		[8 – 9.9 hp] 2-1/2" Gearcase • T8, T9.9 Dual Thrust, 8 tooth spline	Y15D 11 3/4 X 7	69G-45943-00-EL	3	R	Rubber Bushing
C		[40 hp] Pin Drive • E40G, EK40G	PY40 11 3/4 X 10	676-45945-62-EL	3	H	Rubber Bushing (Pin Type)
			PY40 11 1/2 X 11	676-45941-62-EL	3	H	
D	  	[50 - 130 hp] 4-1/4" Gearcase • T50hp 1996 & Newer • T60hp 2003 & Newer • 60hp 1992 - 2005 (includes C60, E60, P60) • 70hp 1984 & Newer • F70hp (4 stroke) 2010 & Newer • 75hp 1994 – 1999 (includes C75, E75, P75) • 75hp (4 stroke) 2003 & Newer • 80hp 1997 • F80hp (4 stroke) 1999 - 2002 • 85hp 1991-1997 • 90hp 1984 & Newer (includes C90) • F90hp (4 stroke) 1999 & Newer • F100hp (4 stroke) 2000 & Newer • 115hp 1984 & Newer (includes C115, P115) • F115hp (4 stroke) 2000 & Newer • 130hp 1984 & Newer Thru Hub Exhaust, 15 tooth spline	Y60 13 5/8 X 13	6E5-45949-00-EL	3	K	Rubber Bushing
			Y60 13 1/2 X 15	6E5-45947-00-EL	3	K	
			Y85 13 1/4 X 17	6E5-45945-01-EL	3	K	
			Y85 13 X 19	6E5-45941-00-EL	3	K	
			Y85 12 5/8 X 21	6E5-45943-00-EL	3	K	
			U60 14 X 10	48-854342A45	3		Hub Kit (BH-YD) or (BH-YE)
			U90 14 X 11	48-77338A45	3		
			U90 14 X 13	48-77340A45	3		
			U60 13 3/4 X 15	48-77342A45	3		
			U90 13 1/4 X 17	48-77344A45	3		
			U90 13 X 19	48-77346A45	3		
			U90 12 3/4 X 21	48-77348A45	3		
			4U90 13 7/8 X 11	8M8026560	4		
			4U90 13 7/8 X 13	8M8026570	4		
			4U90 13 3/8 X 15	8M8026580	4		
			4U90 13 X 17	8M8026590	4		
			4U90 12 1/2 X 19	8M8026600	4		
			** Use hub kit (BH-YD) on 50 to 100hp. ** Use hub kit (BH-YE) on 115 & 130hp.				
E	  	[150 - 300 hp] 4-3/4" Gearcase • 150hp 1986 & Newer • F150hp (4 stroke) 2004 & Newer • 175hp 1984 & Newer • F175hp (4 stroke) 2014 & Newer • 200hp 1984 & Newer • 200hp (VMAX) 2001 • F200hp (4 stroke) 2002 & Newer • VF200 V MAX SHO 2010 & Newer • 220hp (Special) 1984-1985 • 225hp (Excel) 1987-1988 • 225hp 1986 & Newer • F225hp (4 stroke) 2002 & Newer • VF225 V MAX SHO 2010 & Newer • F225 Offshore 2010 & Newer • 250hp 1990 & Newer • 250hp (VMAX) 2001 • F250 (4 stroke) 2002 & Newer • VF250 V MAX SHO 2010 & Newer • F250 Offshore 2010 & Newer Thru Hub Exhaust, 15 tooth spline	Y150 15 1/4 X 15	6G5-45941-01-98	3	M	Rubber Bushing
			Y150 14 1/2 X 17	6G5-45947-01-98	3	M	
			Y150 14 X 19	6G5-45945-01-98	3	M	
			Y150 13 3/4 X 21	6G5-45943-01-98	3	M	
			Y150 13 1/2 X 23	6G5-45949-00-98	3	M	
			U150 16 X 13	48-78114A45	3		Hub Kit (BH-YE)
			U150 15 1/4 X 15	48-78116A45	3		
			U150 16 X 16	48-16440A45	3		
			U135 15 X 17	48-832828A45	3		
			U150 14 1/2 X 19	48-832830A45	3		
			U150 14 1/4 X 21	48-832832A45	3		
			U150 14 X 23	48-832834A45	3		
			4U150 15 X 16	48-834850A45	4		
			4U150 14 1/2 X 18	48-834852A45	4		
			4U150 14 X 20	48-834854A45	4		
			** Do not use 150 - 300hp 4 stroke Offshore and SHO outboards				



MERCURY / MARINER

Class		Outboard Engine	Description	OEM Part No.	Blds	Remarks
M5		[4 - 6 hp] • 4hp (4 stroke) 1999 & Newer • 4hp (2 stroke) 1987 & Newer • 5hp (2 stroke) 1987 & Newer • 6hp (4 stroke) 1999 & Newer Thru Hub Exhaust, 12 tooth spline	M5 7 7/8 X 8	48-812950A02	3	Rubber Bushing
A		[6 - 15 hp] 2-1/2" Gearcase • 6,8,9.9hp (2 stroke) 1986-2005 • 8, 9.9hp (4 stroke) 1995-2005 • 10hp 1995 & Newer • 10,15hp (Sea Pro, Marathon) 1995-2001 • 15hp (2 Stroke) 1989-2005 • 15hp (4 Stroke) 1999-2006 • Not for Bigfoot Motors Thru Hub Exhaust, 8 tooth spline	M15 9 1/4 X 7	48-828152A12	3	Rubber Bushing
			M15 9 X 8	48-828154A12	3	
			M15 9 X 9	48-828156A12	3	
			[9.9 - 20 hp] 2-1/2" Gearcase, 14tooth spline • 9.9hp (Bigfoot) 2005-2013 • 9.9hp Command Thrust 2016 & Newer • 15, 20hp (4 stroke) 2007 & Newer	Use Tohatsu A class propellers. See 16 page.		
B		[9.9 - 25 hp] 3" Gearcase • 9.9hp (Bigfoot, 4 stroke) 1999-2005 • 15hp (Bigfoot, 4 stroke) 1999-2005 • 18hp Mercury 1980 - 1985 • 20hp (2 stroke) Mercury 1986-2002 • 25hp (2 stroke) Mercury 1980-2005 • 25hp (2 stroke) Mariner 1985 & Newer • 25hp (Sea Pro, Marathon) All years Thru Hub Exhaust, 10 tooth spline	M25 10 3/8 X 11	48-19638A40	3	Rubber Bushing
			M25 10 3/8 X 13	48-19640A40	3	
			[25 - 30 hp] 3" Gearcase, 10 tooth spline • 25, 30hp (4 stroke, not Bigfoot) 2006 & Newer	Use Tohatsu B class propellers. See 16 page.		
C	  	[25 - 70 hp] 3-1/4" Gearcase • Model 402, 500, & 700 1977-1984 • 25hp (4 stroke, Bigfoot) 1999-2005 • 30hp (2 stroke) 1994-2002 • 30hp (4 stroke) 1999-2005 • 30hp (Sea Pro, Marathon) 1994 & Newer • 35hp 1984-1989 • 40hp (2 stroke) 1977 & Newer • 40hp (4 stroke, Not Bigfoot) 1997 & Newer • 40hp (Sea Pro, Marathon) 1977 & Newer • 45hp 1986-1989 • 48hp (Mariner) All years • 50hp (2 stroke) 1977 & Newer • 50hp (4 stroke, Not Bigfoot) 1995 & Newer • 55hp 1995 & Newer • 60hp (2 stroke) 1978 & Newer • 60hp (4 stroke, Not Bigfoot) 2001 & Newer • 70hp thru 1983 Thru Hub Exhaust, 13 tooth spline	M55 12 1/4 X 9	48-87818A10	3	Rubber Bushing
			M55 12 X 10 1/2	48-42740A10	3	
			M55 11 1/4 X 10	48-73132A40	3	
			M55 10 7/8 X 11	48-85623A40	3	
			M40 10 5/8 X 12	48-73134A40	3	
			M40 10 3/8 X 13	48-73136A40	3	
			M40 10 1/2 X 13	48-816704A40	3	
			M40 10 1/4 X 14	48-73138A40	3	Hub Kit (BH-MC)
			M40 10 3/8 X 14	48-816706A40	3	
			M40 10 1/8 X 15	48-73140A45	3	
			U40 12 1/4 X 9		3	
			U40 11 3/4 X 10		3	
			U40 11 5/8 X 11		3	
			U40 11 3/8 X 12		3	
			U40 11 1/8 X 13		3	
			U40 11 1/4 X 14		3	
			4U40 10 5/8 X 12	48-8M8026625	4	
			4U40 10 3/8 X 13	48-8M8026630	4	
			4U40 10 1/8 X 14	48-8M8026635	4	
			4U40 10 1/8 X 15	48-8M8026640	4	

MERCURY / MARINER

Class		Outboard Engine	Description	OEM Part No.	Blds	Remarks
D		[40 - 140 hp] 4-1/4" Gearcase • 40, 50hp (4 stroke, Bigfoot) All years • 40hp Sea Pro 4 stroke 2016 & Newer • 60hp (4 stroke, Bigfoot) 1995 & Newer • 60hp Sea Pro 4 stroke 2016 & Newer • 70hp 1987-1989 • 75hp (Sea Pro, Marathon) All years • 75hp (2 stroke) 1984-2005 • 75hp (4 stroke) 2001 & Newer • 80hp 1978-1989 • 90hp (2 stroke) 1978 & Newer • 90hp (4 stroke) 2001 & Newer • 100hp 1988 & Newer • 115hp 1978 & Newer • 115hp (4 stroke) 2001 & Newer • 125hp 1994 & Newer • 140hp 1978-1981 • 650 (4 cylinder) 1961-1970 • 650 (2 cylinder) thru 1971 • 800, 850 (2&4 cylinder) 1972-1977 • 900 & 1500 thru 1977 Thru Hub Exhaust, 15 tooth spline	U60 14 X 10	48-854342A45	3	Hub Kit (BH-MD)
			U90 14 X 11	48-77338A45	3	
			U90 14 X 13	48-77340A45	3	
			U60 13 3/4 X 15	48-77342A45	3	
			U90 13 1/4 X 17	48-77344A45	3	
			U90 13 X 19	48-77346A45	3	
			U90 12 3/4 X 21	48-77348A45	3	
			4U90 13 7/8 X 11	8M8026560	4	
			4U90 13 7/8 X 13	8M8026570	4	
			4U90 13 3/8 X 15	8M8026580	4	
			4U90 13 X 17	8M8026590	4	
			4U90 12 1/2 X 19	8M8026600	4	
			M60 14 X 10	48-854342A45	3	Rubber Bushing
			M90 14 X 11	48-77338A45	3	
			M90 14 X 13	48-77340A45	3	
			M60 13 3/4 X 15	48-77342A45	3	
			M90 13 1/4 X 17	48-77344A45	3	
			M90 13 X 19	48-77346A45	3	
			M90 12 3/4 X 21	48-77348A45	3	
			E		[90 - 275hp] 4-3/4" Gearcase • 90, 115hp Sea Pro • 90, 115hp Command Thrust 2014 & Newer • 135hp 1987 & Newer • 150hp 1978 & Newer • 175hp 1978 & Newer • 200hp 1978 & Newer • 220hp 1987-1988 • 225hp 1980 & Newer • 225hp (Sea Pro, Marathon) All years • 250hp 1994 & Newer • 275hp 1990-1994 • 3.4 Litre 1984-1986 Fits Mercruiser sterndrives: • Alpha I & Bravo I with 4 3/4" Gearcase Thru hub exhaust, 15 tooth spline	
U150 15 1/4 X 15	48-78116A45	3				
U150 16 X 16	48-16440A45	3				
U135 15 X 17	48-832828A45	3				
U150 14 1/2 X 19	48-832830A45	3				
U150 14 1/4 X 21	48-832832A45	3				
U150 14 X 23	48-832834A45	3				
4U150 15 X 16	48-834850A45	4				
4U150 14 1/2 X 18	48-834852A45	4				
4U150 14 X 20	48-834854A45	4				



SUZUKI

Class	Outboard Engine	Description	OEM Part No.	Bids	Remarks
A		S15 9 1/4 X 8		3	Rubber Bushing
		S15 9 1/4 X 9	58100-94J00-019	3	
		S15 9 1/4 X 10	58100-93733-019	3	
		S15 9 1/4 X 11	58100-93743-019	3	
		S15 9 1/4 X 12		3	
		S15F 9 1/4 X 8	58100-90L40-019	3	
		S15F 9 1/4 X 9	58100-89L20-019	3	
		S15F 9 1/4 X 10	58100-89L30-019	3	
		S15F 9 1/4 X 11	58100-89L40-019	3	
		S15F 9 1/4 X 12	58100-89L50-019	3	
B		[8 - 20 hp] 2-1/2" Gearcase			Rubber Bushing
		• DF 8A (4 stroke) 2011 & Newer			
		• DT 9.9 1983-1987			
		• DF 9.9 (4 stroke) 1996 & Newer			
		• DF 9.9A / 9.9B (4 stroke) 2010 & Newer			
		• DT 15 1983-1988			
		• DT 15C 1989-1997			
		• DF 15 (4 stroke) 1996 & Newer			
		• DF 15A / 20A (4 stroke) 2013 & Newer			
		Thru hub exhaust, 10 tooth spline			
C		[20 - 30 hp] 3" Gearcase			Rubber Bushing
		• DT 20 1987-1988			
		• DT 25 1987-1988			
		• DT 25C 1989-2000			
		• DF 25 (4 stroke) 2000 & Newer			
		• DF 25R 2010 & Newer			
		• DF 25A 2014 & Newer			
		• DT 30, 30C 1987-1997			
		• DF 30 (4 stroke) 2000-2007			
		• DF 30A 2014 & Newer			
D		Fits Johnson/Evinrude outboards:			Hub Kit (BH-SJC)
		• 25hp (4 stroke) 2004 & Newer			
		• 30hp (4 stroke) 2004 & Newer			
		Thru hub exhaust, 10 tooth spline			
		S30 10 1/4 X 9	58100-96371-019	3	
		S30 10 1/4 X 10	58100-96410-019	3	
		S30 10 1/4 X 11	58100-96420-019	3	
		S30 10 1/4 X 12	58100-96430-019	3	
		S30 10 1/4 X 13	58100-96440-019	3	
		S30 10 1/4 X 14	58100-95D00-019	3	
E		S30 10 1/4 X 15	58100-96460-019	3	
		S40 11 1/2 X 11	58100-95222-019	3	Rubber Bushing
		S40 11 1/2 X 12	58100-95393-019	3	
		S40 11 1/2 X 13	58100-94313-019	3	
		S40 11 1/2 X 14	58100-95353-019	3	
		S40 11 1/4 X 15	58100-95363-019	3	
		S40 11 1/8 X 16	58100-88L71-019	3	
		S40 11 X 17	58100-88L81-019	3	
		U40 12 1/4 X 9		3	
		U40 11 3/4 X 10		3	
F		U40 11 5/8 X 11		3	Hub Kit (BH-SJC)
		U40 11 3/8 X 12		3	
		U40 11 1/8 X 13		3	
		U40 11 1/4 X 14		3	
		4U40 10 5/8 X 12	48-8M8026625	4	
		4U40 10 3/8 X 13	48-8M8026630	4	
		4U40 10 1/8 X 14	48-8M8026635	4	
		4U40 10 1/8 X 15	48-8M8026640	4	
		Fits Johnson/Evinrude outboards:			
		• 40hp (4 stroke) 1999 & Newer			
		• 50hp (4 stroke) 1999 & Newer			
		Thru hub exhaust, 13 tooth spline			

SUZUKI

Class	Outboard Engine	Description	OEM Part No.	Bids	Remarks
D		[60 - 140 hp] 4-1/4" Gearcase			Rubber Bushing
		• DF 60 (4 stroke) 1998-2009			
		• DF 70 (4 stroke) 1998-2008			
		• DT 75 1983-1997			
		• DT 85 1979-2000			
		• DT 90 1989-1997			
		• DT 100 1989-2000			
		• DT 115 1981-2001			
		• DT 140 1981-2001			
		Thru hub exhaust, 13 tooth spline			
E		[50 - 140 hp - 4 stroke] 4-1/4" Gearcase			Rubber Bushing
		• DF 50AV (4 stroke) 2015 & Newer			
		• DF 60AV (4 stroke) 2015 & Newer			
		• DF 70A (4 stroke) 2009 & Newer			
		• DF 80A (4 stroke) 2009 & Newer			
		• DF 90 (4 stroke) 2001-2008			
		• DF 90A (4 stroke) 2009 & Newer			
		• DF 100 (4 stroke) 2009 & Newer			
		• DF 115 (4 stroke) 2001-2012			
		• DF 115A (4 stroke) 2013 & Newer			
F		Thru hub exhaust, 15 tooth spline			Hub Kit (BH-SE)
		S90 14 X 15	58100-90J41-019	3	
		S90 14 X 17	58100-90J01-019	3	
		S90 14 X 18		3	
		S90 14 X 19	58100-90J11-019	3	
		S90 14 X 21	58100-90J21-019	3	
		U150 16 X 13	48-78114A45	3	
		U150 15 1/4 X 15	48-78116A45	3	
		U150 16 X 16	48-16440A45	3	
		U135 15 X 17	48-832828A45	3	
G		[150 - 300 hp] 4-3/4" Gearcase			Plastic Bushing
		• DT 150 1986-2003			
		• DF 150 (4 stroke) 2006 & Newer			
		• DF 150TG 2014 & Newer			
		• DT 175 1987 - 1992			
		• DF 175 (4 stroke) 2006 & Newer			
		• DF 175TG 2014 & Newer			
		• DT 200 1986-2000			
		• DT 225 1986 - 2003			
		• DF 200 (4 stroke) 2004 & Newer			
H		• DF 200A (4 stroke) 2015 & Newer			Plastic Bushing
		• DF 200AP (4 stroke) 2015 & Newer			
		• DF 225 (4 stroke) 2004 & Newer			
		• DF 250 (4 stroke) 2004 & Newer			
		• DF 250AP (4 stroke) 2014 & Newer			
		• DF 300 (4 stroke) 2007 & Newer			
		• DF 300AP (4 stroke) 2014 & Newer			
		Thru hub exhaust, 15 tooth spline			
		※ U series propellers are less than original propeller for DF200 ~ DF300. S150 propellers are recommendable for DF200 ~ DF300.			
		4U150 15 X 16	48-834850A45	4	
I		4U150 14 1/2 X 18	48-834852A45	4	Plastic Bushing
		4U150 14 X 20	48-834854A45	4	
		S150 16 X 20	99105-00800-20P	3	
		S150 16 X 21 1/2	99105-00800-215	3	

TOHATSU / NISSAN

Class	Outboard Engine	Description	OEM Part No.	Blds	Remarks
T5	 [4 – 6 hp] • M4C / 5B (2 stroke) • MFS4 / 5 / 6 (4 stroke) Thru Hub Exhaust, 12 tooth spline	M5 7 7/8 X 8 Use Mercury propeller	3R1B64516-2	3	Rubber Bushing
T8	 [8 - 9.8 hp] 2-1/2" Gearcase Fits Nissan/Tohatsu outboards: • 8hp (2 stroke) All years • 8hp MFS8 (4 stroke) All years • 8hp NSF8 (4 stroke) All years • 9.8hp (2 stroke) All years • 9.8hp MFS9.8 (4 stroke) All years • 9.8hp NSF9.8 (4 stroke) All years Fits Mercury outboards: • 8hp (4 stroke) 2005 & Newer Thru hub exhaust, 12 tooth spline	T8 8 1/2 X 7 T8 8 1/2 X 8	3B2-64513-0 3B2B64515-1	3 3	Rubber Bushing
A	 [9.9 - 20 hp] 2-1/2" Gearcase • 9.9hp (2 stroke) 1984 & Newer • 9.9hp (4 stroke) 2000-2003 • 12hp 1985-1988 • 15hp (2 stroke) 1985 & Newer • 15hp (4 stroke) 2000 & Newer • 18hp (2 stroke) 1985 & Newer • 18hp (4 stroke) 2001-2008 • 20hp (4 stroke) 2007 & Newer Thru hub exhaust, 14 tooth spline	T15 9 1/4 X 8 T15 9 1/4 X 9 T15 9 1/4 X 9 3/4 T15 9 1/4 X 10 T15 9 1/4 X 10 1/2 T15 9 1/4 X 11 T15 9 1/4 X 12	3BAB64516-0 3BAB64518-0 362-64108-0 3BAB64521-0 	3 3 3 3 3 3 3	Rubber Bushing
B	 [25 - 30 hp] 3" Gearcase Fits Nissan/Tohatsu outboards: • 25hp 1986-2001 • 25hp (4 stroke) 2002 & Newer • 30hp 1985-2001 • 30hp TLDI 2016 & Newer • 30hp (4 stroke) 2002 & Newer Fits Mercury outboards: • 25hp (4 stroke) 2006 & Newer • 30hp (4 stroke) 2006 & Newer Thru hub exhaust, 10 tooth spline	T30 9 7/8 X 9 T30 9 7/8 X 10 T30 9 7/8 X 11 T30 9 7/8 X 12 T30 9 7/8 X 13 T30 9 7/8 X 14 1/4	3R0B64518-0 3R0B64521-0 3R0B64523-0 3R0B64525-0 3R0B64527-0 349B64529-1	3 3 3 3 3 3	Rubber Bushing

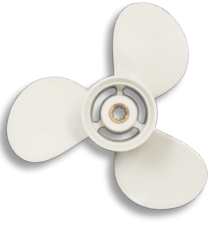
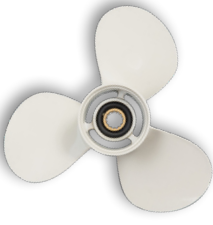


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TOHATSU / NISSAN

Class	Outboard Engine		Description	OEM Part No.	Blds	Remarks
C	  	[35 – 60 hp] 3-1/4" Gearcase • 35hp (35B only) thru 1984 • 40hp 1984 & Newer • MFS40 2015 & Newer • 50hp 1992 & Newer • MFS50 2015 & Newer • BFT60 2014 & Newer Thru hub exhaust, 13 tooth spline	T40 12 1/4 X 9	3T5B64518-0	3	Rubber Bushing
			T40 11 3/4 X 10		3	
			T40 11 5/8 X 11	3T5B64523-0	3	
			T40 11 3/8 X 12	3T5B64525-0	3	
			T40 11 1/8 X 13	3T5B64527-0	3	
			T40 11 1/4 X 14	3T5B64529-0	3	
			T40 11 X 15	3T5B64532-0	3	Hub Kit (BH-TC)
			U40 12 1/4 X 9		3	
			U40 11 3/4 X 10		3	
			U40 11 5/8 X 11		3	
			U40 11 3/8 X 12		3	
			U40 11 1/8 X 13		3	
			U40 11 1/4 X 14		3	
			4U40 10 5/8 X 12	48-8M8026625	4	
			4U40 10 3/8 X 13	48-8M8026630	4	
			4U40 10 1/8 X 14	48-8M8026635	4	
			4U40 10 1/8 X 15	48-8M8026640	4	
[50 – 70 hp] 3-1/4" Gearcase	• 50hp (50C only) 1987-1991 • 55hp 1981-1988 • 60A & 60B 1986-1999 • 70A & 70B 1981-1995 Thru hub exhaust, 13 tooth spline	U48 12 1/2 X 13		3	Hub Kit (BH-TC48)	
		U48 12 1/4 X 15		3		
		D	  	[60-140 hp] 4-1/4" Gearcase • 60C (Large gearcase) Thru 1999 • 70C (Large gearcase) Thru 2002 • 90hp 1987 & 2001 • 115hp 1992 & Newer • 120hp 1988 & 2003 • 140hp 1988 & 2003 Thru hub exhaust, 15 tooth spline ** U-type can be installed on newer Tohatsu D class engines. (with Hubkit)	T90 13 5/8 X 13	3N4B64527-1
T90 13 1/2 X 15	3N4B64532-1				3	
T90 13 1/4 X 17	3N4B64536-1				3	
T90 13 X 19	3N4B64541-1				3	
T90 12 5/8 X 21	3N4B64545-1				3	
U60 14 X 10	48-854342A45				3	Hub Kit (BH-TD)
U90 14 X 11	48-77338A45				3	
U90 14 X 13	48-77340A45				3	
U60 13 3/4 X 15	48-77342A45				3	
U90 13 1/4 X 17	48-77344A45				3	
U90 13 X 19	48-77346A45				3	
U90 12 3/4 X 21	48-77348A45				3	
4U90 13 7/8 X 11	8M8026560				4	
4U90 13 7/8 X 13	8M8026570				4	
4U90 13 3/8 X 15	8M8026580				4	
4U90 13 X 17	8M8026590				4	
4U90 12 1/2 X 19	8M8026600				4	

HONDA

Class	Outboard Engine	Description	OEM Part No.	Blds	Remarks
A	 [8 - 20 hp] 2-1/2" Gearcase • BF 8 2000 & Newer • BF 9.9 1988 & Newer • BF 15 1991 & Newer • BF 20 2003 & Newer Thru hub exhaust, 8 tooth spline	H15 9 1/4 X 8	58130-ZV4-008AH	3	Rubber Bushing
		H15 9 1/4 X 9	58130-ZV4-009AH	3	
		H15 9 1/4 X 9 3/4		3	
		H15 9 1/4 X 10 1/2	58130-ZV4-010AH	3	
		H15 9 1/4 X 11		3	
		H15 9 1/4 X 12		3	
B	 [25 - 30 hp] 3" Gearcase • BF 25 1994 & Newer • BF 30 1995 & Newer Thru hub exhaust, 10 tooth spline	H30 9 7/8 X 9	58130-ZV7-009AH	3	Rubber Bushing
		H30 9 7/8 X 10	58130-ZV7-010AH	3	
		H30 9 7/8 X 11	58130-ZV7-011AH	3	
		H30 9 7/8 X 12	58130-ZV7-012AH	3	
		H30 9 7/8 X 13	58130-ZV7-013AH	3	
		H30 9 7/8 X 14 1/4		3	
C	 [35 - 60 hp] 3-1/4" Gearcase • BF 35 1991-1994 • BF 40 1995 & Newer • BF 45 1991-1994 • BF 50 / 50A 1995 & Newer • BF 60 / 60A 2010 & Newer Thru hub exhaust, 13 tooth spline	H40 12 1/4 X 9	58130-ZV5-009AH	3	Rubber Bushing
		H40 11 3/4 X 10		3	
		H40 11 5/8 X 11	58130-ZV5-011AH	3	
		H40 11 3/8 X 12	58130-ZV5-012AH	3	
		H40 11 1/8 X 13	58130-ZV5-013AH	3	
		H40 11 1/4 X 14	58130-ZV5-014AH	3	
		H40 11 X 15	58130-ZV5-015AH	3	Hub Kit (BH-HC)
		U40 12 1/4 X 9		3	
		U40 11 3/4 X 10		3	
		U40 11 5/8 X 11		3	
		U40 11 3/8 X 12		3	
		U40 11 1/8 X 13		3	
		U40 11 1/4 X 14		3	
		4U40 10 5/8 X 12	48-8M8026625	4	
		4U40 10 3/8 X 13	48-8M8026630	4	
		4U40 10 1/8 X 14	48-8M8026635	4	
		4U40 10 1/8 X 15	48-8M8026640	4	

HONDA

Class	Outboard Engine	Description	OEM Part No.	Blds	Remarks
D	 [60 - 130 hp] 4-1/4" Gearcase • BFP 60 2010 & Newer • BF 75 1995 & Newer • BF 90 1995 & Newer • BF 100 2016 & Newer • BF 115 1998-2010 • BF 130 1998-2004 Thru hub exhaust, 15 tooth spline *Note -For BF75, BF90hp 1995-1998 use Mercury Hub Kit (BH-MD). -For BF75, BF90hp 1999 & Newer, BFP60, BF115, BF130 1998 & Newer use Honda hub kit (BH-HD).	U60 14 X 10	48-854342A45	3	Hub Kit (BH-HD)
		U90 14 X 11	48-77338A45	3	
		U90 14 X 13	48-77340A45	3	
		U60 13 3/4 X 15	48-77342A45	3	
		U90 13 1/4 X 17	48-77344A45	3	
		U90 13 X 19	48-77346A45	3	
		U90 12 3/4 X 21	48-77348A45	3	
		4U90 13 7/8 X 11	8M8026560	4	
		4U90 13 7/8 X 13	8M8026570	4	
		4U90 13 3/8 X 15	8M8026580	4	
		4U90 13 X 17	8M8026590	4	
		4U90 12 1/2 X 19	8M8026600	4	
E	 [115 - 225 hp] 4-3/4" Gearcase • BF115 2011 & Newer • BF135 2004 & Newer • BF150 2004 & Newer • BF200 2002 & Newer • BF225 2002 & Newer • BF250 2012 & Newer Thru hub exhaust, 15 tooth spline	U150 16 X 13	48-78114A45	3	Hub Kit (BH-HE)
		U150 15 1/4 X 15	48-78116A45	3	
		U150 16 X 16	48-16440A45	3	
		U135 15 X 17	48-832828A45	3	
		U150 14 1/2 X 19	48-832830A45	3	
		U150 14 1/4 X 21	48-832832A45	3	
		U150 14 X 23	48-832834A45	3	
		4U150 15 X 16	48-834850A45	4	
		4U150 14 1/2 X 18	48-834852A45	4	
		4U150 14 X 20	48-834854A45	4	



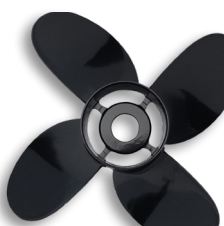
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EVINRUDE / JOHNSON / O.M.C.

Class	Outboard Engine	Description	OEM Part No.	Blds	Remarks
A	 [8 - 15 hp] 2-1/2" Gearcase • 8 hp (4 stroke) 1996-2005 • 9.9 & 15hp (2 stroke) 1974-2005 • 9.9 & 15hp (4 Stroke) 1995-2001 Thru Hub Exhaust, 13 tooth spline	J15 9 1/2 X 10	778772	3	Rubber Bushing
B	 [15 - 35 hp] 3" Gearcase • 15hp E-TEC H.O 2011 & Newer • 20hp (2 cylinder) 1984-1997 • 25hp (2&3 cylinder) 1984 & Newer • 25, 30hp (E-TEC) 2009 & Newer • 30hp (2 cylinder) 1984 & Newer • 35hp (2 cylinder) 1979-1983 • 35hp (3 cylinder) 1997-2001 Thru Hub Exhaust, 14 tooth spline	J25 10 X 13 J25 10 X 15	778863 763486	3 3	Rubber Bushing
C	  [40 - 50 hp] 3-1/4" Gearcase • 40hp (4 stroke) 1999-2005 • 50hp (4 stroke) 1999-2005 Thru Hub Exhaust, 13 tooth spline	U40 12 1/4 X 9 U40 11 3/4 X 10 U40 11 5/8 X 11 U40 11 3/8 X 12 U40 11 1/8 X 13 U40 11 1/4 X 14 4U40 10 5/8 X 12 4U40 10 3/8 X 13 4U40 10 1/8 X 14 4U40 10 1/8 X 15	 48-8M8026625 48-8M8026630 48-8M8026635 48-8M8026640	3 3 3 3 3 3 4 4 4 4	Hub Kit (BH-SJC) Rubber Bushing Hub Kit (BH-JC48)
	 [40 - 75 hp] 3-3/8" Gearcase • 40hp (2 cylinder) 1984-2005 • 48hp 1987-1996 • 50hp (2 cylinder) 1975-2005 • 55hp 1976-1979 • 65hp (2 cylinder) 1980-1985 • 75hp (3 cylinder) 1975-1985 • Sprint / Formula E 1986-1992 Thru Hub Exhaust, 13 tooth spline	J48 12 1/2 X 13 J48 12 1/4 X 15 U48 12 1/2 X 13 U48 12 1/4 X 15	763461 778774 	3 3 3 3	Rubber Bushing Hub Kit (BH-JC48)

EVINRUDE / JOHNSON / O.M.C.

Class	Outboard Engine	Description	OEM Part No.	Blds	Remarks
D	 [45 - 140 hp] 4-1/4" Gearcase 2 Stroke Outboard Engines: • 40hp (E-Tec) 2004 & Newer • 45hp (2cyl commercial) 1986&Newer • 50hp (E-Tec) 2004 & Newer • 50hp (2cyl commercial) 1977-1979 • 50hp (2cyl) 1971-1974 • 50hp (3cyl) 1994 & Newer • 55hp (2cyl commercial) 1980&Newer • 55hp (3cyl) 1968-1969 • 60hp (3cyl) 1970-71, 1986 & Newer • 60hp (E-Tec) 2004 & Newer • 65hp (3cyl commercial) 1984&Newer • 65hp (3cyl) 1972-1973 • 70hp (3cyl) 1974 & Newer • 75hp (3cyl) 1975-1984 • 75hp (E-Tec) 2004 & Newer 4 Stroke Outboard Engines: • 60hp 1998 & Newer • 70hp 1998 & Newer • 90hp 2003 & Newer • 115hp 2003 & Newer • 140hp 2003 & Newer Thru hub exhaust, 13 tooth spline	J70 14 X 13 J70 13 3/4 X 15 J70 13 1/4 X 17 J70 14 X 17 J70 13 1/4 X 19	391668 391198 763463 176214 763464	3 3 3 3 3	Rubber Bushing
E	   [90 - 300 hp] 4-3/4" Gearcase 2 Stroke Outboard Engines: • 90hp 1995 & Newer • 90hp (E-Tec extra long) 2004&Newer • 100hp (commercial) 1984 & Newer • 115hp 1995 & Newer • 120-140hp 1985 • 130hp 1995 & Newer • 140hp (25") 1989-1994 • 150hp (commercial) 1993 & Newer • 150hp 1978 & Newer • 155hp (commercial) 1978 & Newer Sterndrives:Model800, Cobra & King Cobra : • 3.0 L - 8.2 L (non SX drives) 1990-1993 • Cobra 5.8 L 1990-1993 • SeaDrive2.0-4.0L All Years Thru hub exhaust, 15 tooth spline	J150 15 1/2 X 13 J150 15 1/2 X 15 J150 15 X 17 U150 15 1/4 X 15 U135 15 X 17 U150 14 1/2 X 19 U150 14 1/4 X 21 U150 14 X 23 4U150 15 X 16 4U150 14 1/2 X 18 4U150 14 X 20	763453 391535 391200 48-78116A45 48-832828A45 48-832830A45 48-832832A45 48-832834A45 48-834850A45 48-834852A45 48-834854A45	3 3 3 3 3 3 3 3 4 4 4	Rubber Bushing Hub Kit (BH-JE)

BAEKSAN HUB KIT LIST

Class	Hub Kit	Description	Class	Hub Kit	Description
C	BH-YC / YAMAHA	Forward Thrust Washer After Drive Adapter 1EA - Washer 1 Plastic Drive Sleeve ★ Nut ★ Cotter pin	D	BH-YD / YAMAHA	Forward Thrust Washer Plastic Drive Sleeve After Drive Adapter Spacer Castle Nut ★ Cotter pin
	BH-MC / MERCURY	Forward Thrust Washer After Drive Adapter Plastic Drive Sleeve Tap washer ★ Nut		BH-MD / MERCURY	Forward Thrust Washer Plastic Drive Sleeve After Drive Adapter Tap washer Nut
	BH-SJC / SUZUKI EVINRUDE (JOHNSON)	Forward Thrust Washer After Drive Adapter 2EA - Washer 2 Plastic Drive Sleeve ★ Nut ★ Cotter pin		BH-HD / HONDA	Forward Thrust Washer Plastic Drive Sleeve After Drive Adapter Castle Nut ★ After washer ★ Washer ★ Cotter pin
	BH-TC / TOHATSU	Forward Thrust Washer After Drive Adapter 2EA - Washer 1 Plastic Drive Sleeve ★ Nut ★ Cotter pin		BH-TD / TOHATSU	Forward Thrust Washer Plastic Drive Sleeve After Drive Adapter Castle Nut ★ Washer ★ Cotter pin
	BH-HC / HONDA	Forward Thrust Washer After Drive Adapter Plastic Drive Sleeve ★ Nut ★ Cotter pin		BH-YE / YAMAHA	Forward Thrust Washer Plastic Drive Sleeve After Drive Adapter Spacer Nut ★ Cotter pin
	BH-JC48 / JOHNSON	Forward Thrust Washer After Drive Adapter Plastic Drive Sleeve ★ Nut ★ Cotter pin		BH-ME / MERCURY	Forward Thrust Washer Plastic Drive Sleeve After Drive Adapter Tap washer Nut
	BH-TC48 / TOHATSU	Forward Thrust Washer After Drive Adapter Plastic Drive Sleeve ★ Nut ★ Cotter pin		BH-HE / HONDA	Forward Thrust Washer Plastic Drive Sleeve After Drive Adapter Castle Nut ★ Washer ★ Cotter pin
SX	BH-SX / SX Drive	Forward Thrust Washer Plastic Drive Sleeve After Drive Adapter After washer Castle Nut ★ Cotter pin		BH-JE / EVINRUDE (JOHNSON)	Forward Thrust Washer Plastic Drive Sleeve After Drive Adapter After washer Castle Nut ★ Cotter pin
				BH-SE / SUZUKI	Forward Thrust Washer Plastic Drive Sleeve After Drive Adapter After washer Castle Nut ★ Washer ★ Cotter pin

★ not included. Please use O.E.M. parts.
 ** BH - MD and BH - ME are the same one.
 ** We also make accessories for rubber bushing propeller.

OUTBOARD PROPELLERS FAQ

3-blade or 4-blade propeller

- 3-blade propeller : We recommend these 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.

- 4-blade propeller : We recommend these propellers for bass boats and boats with high performance hulls running high horsepower outboard engines. They provide better "hole shot" performance with less steering torque and less vibration at high speeds as compared with 3-blade propellers.

an aluminum or stainless steel propeller

Aluminum propellers are inexpensive, easy to repair as compared with stainless steel propellers. Stainless Steel is more expensive, but much stronger and durable than aluminum propellers.

Check my motor's operating RPM range

Please operate your motor within the recommended RPM range. You can only check with a tachometer. There are various kinds commercially available.

Purpose of the rubber cushion hub in an outboard propeller

It is not intended to prevent blade damage as is sometimes assumed. This device protects lower unit parts by cushioning the shock of propeller impact. Its prime purpose, however, is to prevent excessive breakage of shear or drive pins that otherwise would occur due to the jolt or shock that is experienced in the process of shifting gears.

thru-hub exhaust, over-hub exhaust, non thru-hub exhaust

thru-hub exhaust
 Over/Thru-hub exhaust propellers are a combination of thru-hub and over-hub exhaust propellers. This allows some exhaust to escape at lower 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.

over-hub exhaust

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

non thru-hub exhaust

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