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POWERFUL | DURABLE | ECONOMICAL

BS.PRO

OUTBOARD & STERNDRIVE
& SAIL & THRUSTER
PROPELLERS



PRO's CHOICE



BS.PRO

BaekSan Propeller Co., Ltd.

MESSAGE

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.



PRO's CHOICE

Your choice for Outstanding Performance!

Advanced Quality!

Economical Efficiency!

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

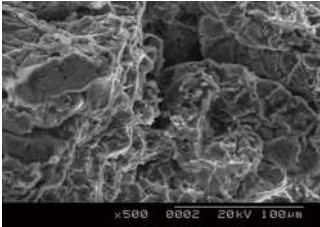


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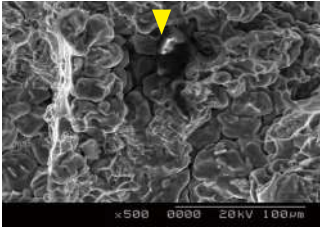
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BEST QUALITY AND GOOD SERVICE

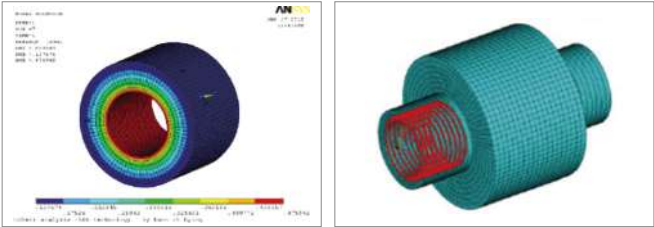
Unstable Microstructure



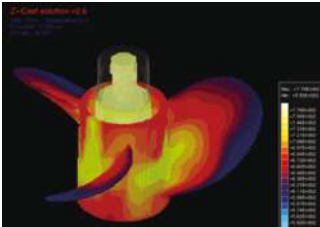
Microstructure Inspection of BaekSan Propeller



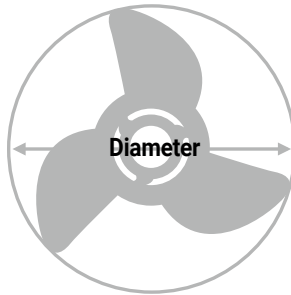
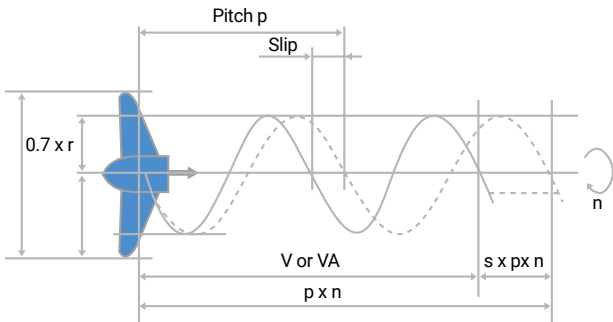
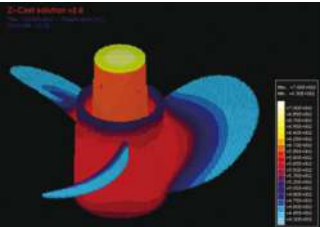
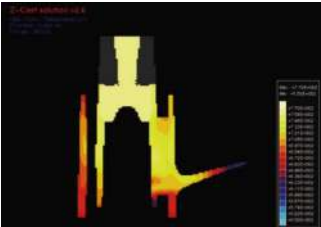
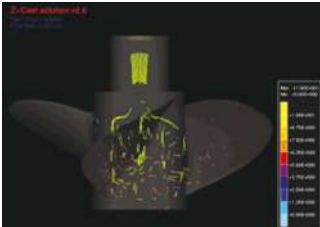
Rubber Stress / Strain Analysis



Flow simulation



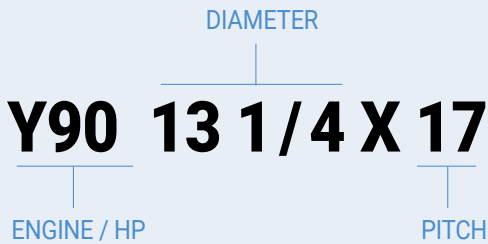
Solidification simulation



Pitch Indicator



PART NO. SYSTEM



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.

HIGH PERFORMANCE ALUMINUM PROPELLER BS.PRO

Cupped trailing edge to better grab and hold water, dramatically enhancing the performance and efficiency.

Exchangeable hub kit system is also available for **U series** propeller.

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

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.

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.

NOTE

4 blade propeller typically give better wave climbing ability and give less torque steer to the operator. Also 4 blade propeller tend to run more smoothly with less vibration over the entire rpm range.

BS.PRO PROPELLERS

Outboard Propeller



Special aluminum alloy

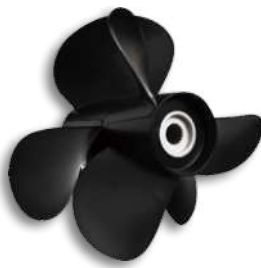


Pin type aluminum propeller



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

Sterndrive Propeller



Sail Propeller



Thruster Propeller



HOW TO CHOOSE THE CORRECT PITCH

01

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

02

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

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.

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.



HOW TO USE THIS CATALOGUE

- 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.

- 1 Locate the BRAND of outboard or sterndrive engine using the table of contents.
- 2 Locate the Horse Power, Engine Model, Year that corresponds with the engine brand.
- 3 Select the propeller Diameter, Pitch that best meets your vessel and usage.
- 4 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	 <p>[25 - 70 hp] 3-1/4" Gearcase</p> <ul style="list-style-type: none"> • 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 <p>Thru Hub Exhaust, 13 tooth spline</p>	M40 12 1/4 X 9	48-87818A10	3	Rubber Bushing
		M40 12 X 10 1/2	48-42740A10	3	
		M40 11 1/4 X 10	48-73132A40	3	
		M40 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	
		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	Hub Kit (BH-MC)
		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	

BS DUO

Class	Stern-Drive		BaekSan Part No.		OEM Part No.		Blds	Remarks			
DUO	 <ul style="list-style-type: none"> • Diesel applications • DP 280, 290 Drives • Diesel engines up to 200 hp <p>Front prop - Three blades Left hand</p> <p>Rear prop - Four blades Right hand</p>		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				
				 <ul style="list-style-type: none"> • Gasoline applications • DP 280, 290 Drives • Gasoline and diesel engines (Diesel up to 230 hp). <p>Front prop - Three blades Left hand</p> <p>Rear prop - Three blades Right hand</p>		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	 <p>4-3/4" Gearcase</p> <ul style="list-style-type: none"> • 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 <p>Thru Hub Exhaust, 19 tooth spline</p>					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)	
			U150 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 X 17		48-8M0084494	4					
			4U150 14 1/2 X 18		48-834852A45	4					
			4U150 14 X 19		48-8M0084495	4					
			4U150 14 X 20		48-834854A45	4					
			4U150 14 X 21		48-8M0084496	4					



BS SAIL

Class	Stern-Drive	Description	OEM Part No.	Blds	Remarks
SAIL	 <p>S-Drive 110S, 120S, 130S, 150S</p> <p>Yanmar SD20 / SD30 17 tooth spline</p>	VSP 17 X 16 LH, 2B	21351265	2	Rubber Bushing
		VSP 15 X 14 LH, 3B		3	
		VSP 17 X 13 LH, 3B	23478968	3	
		VSP 17 X 14 LH, 3B	21401615	3	
		VSP 17 X 15 LH, 3B	23478970	3	
		VSP 18 X 16 LH, 3B	23478972	3	


Yanmar® is a registered trademark of YANMAR Co.,Ltd.

MERCUISER®

Class	Stern-Drive	Description	OEM Part No.	Blds	Remarks
E	 <p>• 4-3/4" Gearcase • Fits Mercruiser Sterndrives Alpha One Sterndrives Bravo One Sterndrives</p> <p>Thru hub exhaust, 15 tooth spline</p>	U150 16 X 13	48-78114A45	3	Hub Kit (BH-MD)
		U150 15 1/4 X 15	48-78116A45	3	
		U150 16 X 16	48-16440A45	3	
		U150 15 X 17	48-832828A45	3	
		U150 14 1/2 X 19	48-832830A45	3	
		U150 16 X 20		3	
		U150 16 X 20, LH		3	
		U150 14 1/4 X 21	48-832832A45	3	
		U150 16 X 21 1/2		3	
		U150 16 X 21 1/2, LH		3	
		U150 14 X 23	48-832834A45	3	
		4U150 15 X 16	48-834850A45	4	
		4U150 14 X 17	8M0055534	4	
		4U150 14 1/2 X 18	48-834852A45	4	
		4U150 14 X 19	8M0055535	4	
		4U150 14 X 20	48-834854A45	4	
4U150 14 X 21	8M0055536	4			
F	 <p>• Fits Bravo Two Sterndrives</p> <p>Thru hub exhaust, 19 tooth spline</p>	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	

MerCruiser®, and Alpha One™ are registered trademarks of Brunswick Corporation.

THRUSTER

THRUSTER Series		ETH-165	ETH-180	BTY-250	BTY-300	BTY-340	BTY-350	BTY-390	BTY-450	BTS-380
	Diameter (mm)	165	180	250	300	340	350	390	450	380
	Blades	4	4	4	4	4	4	4	4	4
	Propulsion System	Twin	Twin	Single	Single	Single	Single	Single	Single	Twin
	Shaft Diameter (mm)	14	14	22.2	22.2	35.5	35.5	35.5	32	23~30

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	 <p>[8 – 9.9 hp] 2-1/2" Gearcase • T8, T9.9 • FT8D/FT9.9A/FT9.9D/FT9.9G/FT9.9L Dual Thrust, 8 tooth spline</p>	Y15D 11 3/4 X 7	69G-45943-00-EL	3	R	Rubber Bushing			
C	 <p>[40 hp] Pin Drive • E40G, EK40G</p>	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	   <p>[50 - 130 hp] 4-1/4" Gearcase • T50hp (4stroke) 1996 & Newer • T60hp (4stroke) 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 • 140A / 140B / 140C Thru Hub Exhaust, 15 tooth spline</p>	Y90 13 5/8 13	6E5-45949-00-EL	3	K	Rubber Bushing			
		Y90 13 5/8 X 14	6E5-45958-00-00	3	K				
		Y90 13 1/2 X 15	6E5-45947-00-EL	3	K				
		Y90 13 1/4 X 17	6E5-45945-01-EL	3	K				
		Y90 13 X 19	6E5-45941-00-EL	3	K				
		Y90 12 5/8 X 21	6E5-45943-00-EL	3	K				
				U90 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			
				U90 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	   <p>[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 • 300hp (2 stroke V6) 2004~2007 • F300 Offshore 2010 & Newer Thru Hub Exhaust, 15 tooth spline</p>	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			
				U150 15 X 17	48-832828A45	3			
				U150 14 1/2 X 19	48-832830A45	3			
				U150 16 X 20		3			
				U150 16 X 20, LH		3			
				U150 14 1/4 X 21	48-832832A45	3			
				U150 16 X 21 1/2		3			
				U150 16 X 21 1/2, LH		3			
				U150 14 X 23	48-832834A45	3			
				4U150 15 X 16	48-834850A45	4			
				4U150 14 X 17	48-8M0084494	4			
				4U150 14 1/2 X 18	48-834852A45	4			
				4U150 14 X 19	48-8M0084495	4			
		4U150 14 X 20	48-834854A45	4					
		4U150 14 X 21	48-8M0084496	4					
		**BH-YE can use 150~300hp HPDI 2 stroke outboards using a one piece thrust washer and all Yamaha stern drives.							
		** 'LH' means left-hand propeller.							

MERCURY® | MARINER®

Class	Outboard Engine	Description	OEM Part No.	Blds	Remarks
M5	 <p>[4 - 6 hp]</p> <ul style="list-style-type: none"> • 4hp (4 stroke) 1999 & Newer • 4hp (2 stroke) 1987 & Newer • 5hp (2 stroke) 1987 & Newer • 6hp (4 stroke) 1999 & Newer <p>Thru Hub Exhaust, 12 tooth spline</p>	M5 7 7/8 X 8	48-812950A02	3	Rubber Bushing
A	  <p>[6 - 15 hp] 2-1/2" Gearcase</p> <ul style="list-style-type: none"> • 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 <p>Thru Hub Exhaust, 8 tooth spline</p>	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	
	 <p>[8~9.9 hp] 2-1/2" Gearcase, 12tooth spline</p> <ul style="list-style-type: none"> • 8, 9,9hp (4 stroke, not Bigfoot) 2005 & Newer 	Use Tohatsu T8 propellers. See 16 page.			
	 <p>[9.9 - 20 hp] 2-1/2" Gearcase, 14tooth spline</p> <ul style="list-style-type: none"> • 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	  <p>[9.9 - 25 hp] 3" Gearcase</p> <ul style="list-style-type: none"> • 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 <p>Thru Hub Exhaust, 10 tooth spline</p>	M25 10 3/8 X 11	48-19638A40	3	Rubber Bushing
		M25 10 3/8 X 13	48-19640A40	3	
		 <p>[25 - 30 hp] 3" Gearcase, 10 tooth spline</p> <ul style="list-style-type: none"> • 25, 30hp (4 stroke, not Bigfoot) 2006 & Newer 	Use Tohatsu B class propellers. See 16 page.		
C	 <p>[25 - 70 hp] 3-1/4" Gearcase</p> <ul style="list-style-type: none"> • 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 <p>Thru Hub Exhaust, 13 tooth spline</p>	M40 12 1/4 X 9	48-87818A10	3	Rubber Bushing
		M40 12 X 10 1/2	48-42740A10	3	
		M40 11 1/4 X 10	48-73132A40	3	
		M40 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	
		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	Hub Kit (BH-MC)
		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			



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Class	Outboard Engine	Description	OEM Part No.	Blds	Remarks	
D		<p>[40 - 140 hp] 4-1/4" Gearcase</p> <ul style="list-style-type: none"> • 40, 50hp (4 stroke, Bigfoot) All years • 40hp Sea Pro 4 stroke 2016 & Newer • 40hp Command Thrust 2014 & Newer • 50hp Command Thrust 2014 & Newer • 60hp Command Thrust 2014 & Newer • 60hp (4 stroke, Bigfoot) 1995 & Newer • 60hp (Sea Pro/Marathon) 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 <p>Thru Hub Exhaust, 15 tooth spline</p>	U90 14 X 10	48-854342A45	3	Hub Kit (BH-MD)
			U90 14 X 11	48-77338A45	3	
			U90 14 X 13	48-77340A45	3	
			U90 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	48-8M8026560	4	
			4U90 13 7/8 X 13	48-8M8026570	4	
			4U90 13 3/8 X 15	48-8M8026580	4	
			4U90 13 X 17	48-8M8026590	4	
			4U90 12 1/2 X 19	48-8M8026600	4	
			M90 14 X 10	48-854342A45	3	Rubber Bushing
			M90 14 X 11	48-77338A45	3	
			M90 14 X 13	48-77340A45	3	
			M90 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	
			U150 16 X 13	48-78114A45	3	
U150 15 1/4 X 15	48-78116A45	3				
U150 16 X 16	48-16440A45	3				
U150 15 X 17	48-832828A45	3				
U150 14 1/2 X 19	48-832830A45	3				
U150 16 X 20		3				
U150 16 X 20, LH		3				
U150 14 1/4 X 21	48-832832A45	3				
U150 16 X 21 1/2		3				
U150 16 X 21 1/2, LH		3				
U150 14 X 23	48-832834A45	3				
4U150 15 X 16	48-834850A45	4				
4U150 14 X 17	48-8M0084494	4				
4U150 14 1/2 X 18	48-834852A45	4				
4U150 14 X 19	48-8M0084495	4				
4U150 14 X 20	48-834854A45	4				
4U150 14 X 21	48-8M0084496	4				




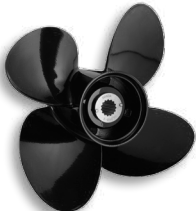



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Class	Outboard Engine	Description	OEM Part No.	Blds	Remarks	
A		<p>[8 - 20 hp] 2-1/2" Gearcase</p> <ul style="list-style-type: none"> • DF 8A (4 stroke) 2011 & Newer • DT 9.9 1983-1987 • DF 9.9 (4 stroke) 1996 & Newer • DF 9.9A / 9.9B (4 stroke) 2010 & Newer • DT 15 1983-1988 • DT 15C 1989-1997 • DF 15 (4 stroke) 1996 & Newer • DF 15A / 20A (4 stroke) 2013 & Newer <p>Thru hub exhaust, 10 tooth spline</p>	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		<p>[20 - 30 hp] 3" Gearcase</p> <ul style="list-style-type: none"> • 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 <p>Fits Johnson/Evinrude outboards:</p> <ul style="list-style-type: none"> • 25hp (4 stroke) 2004 & Newer • 30hp (4 stroke) 2004 & Newer <p>Thru hub exhaust, 10 tooth spline</p>	S30 10 1/4 X 9	58100-96371-019	3	Rubber Bushing
			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	
			S30 10 1/4 X 15	58100-96460-019	3	
			C		<p>[35 - 65 hp] 3-1/4" Gearcase</p> <ul style="list-style-type: none"> • DT 35C 1987-1989 • DT 40 1983-1998 • DF 40 (4 stroke) 1999-2010 • DF 40A (4 stroke) 2010 & Newer • DT 50, 50M 1983-1984 • DF 50 (4 stroke) 1999-2010 • DF 50A (4 stroke, not 50AV) 2010 & Newer • DT 55 1985-1997 • DT 60 1983-1984 • DF 60A (4 stroke, not 60AV) 2010 & Newer • DT 65 1985-1997 <p>Fits Johnson/Evinrude outboards:</p> <ul style="list-style-type: none"> • 40hp (4 stroke) 1999 & Newer • 50hp (4 stroke) 1999 & Newer <p>Thru hub exhaust, 13 tooth spline</p>	
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				Hub Kit (BH-SJC)
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				

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Class	Outboard Engine	Description	OEM Part No.	Blds	Remarks
D	 <ul style="list-style-type: none"> • 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 <p>Thru hub exhaust, 13 tooth spline</p>	S60 13 1/2 X 15	58100-94500-019	3	Rubber Bushing
		S60 13 1/4 X 17	58100-94512-019	3	
	   <p>[50 - 140 hp - 4 stroke] 4-1/4" Gearcase</p> <ul style="list-style-type: none"> • 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 • DF 140 (4 stroke) 2002-2012 • DF 140A (4 stroke) 2013 & Newer <p>Thru hub exhaust, 15 tooth spline</p>	S90 14 X 15	58100-90J41-019	3	Rubber Bushing
		S90 14 X 16		3	
		S90 14 X 17	58100-90J01-019	3	
		S90 14 X 19	58100-90J11-019	3	
		S90 14 X 21	58100-90J21-019	3	
		U90 14 X 10	48-854342A45	3	
		U90 14 X 11	48-77338A45	3	
		U90 14 X 13	48-77340A45	3	
		U90 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	48-8M8026560	4	
		4U90 13 7/8 X 13	48-8M8026570	4	
		4U90 13 3/8 X 15	48-8M8026580	4	
		4U90 13 X 17	48-8M8026590	4	
		4U90 12 1/2 X 19	48-8M8026600	4	
		<p>** BH-SD1 : DF 90 / DF 100 (2009 & Newer), DF 115hp 4 stroke (2001~12)</p> <p>** BH-SD2 : DF 140 4stroke (2002~2012), DF 115 & 140A (2013 & Newer)</p> <p>** BH-SD3 : DF 70A / DF 80A / DF 90A (2009 & Newer)</p>			
E	   <p>[150 - 300 hp] 4-3/4 " Gearcase</p> <ul style="list-style-type: none"> • 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 • DF 200A (4 stroke) 2015 & Newer • 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 <p>Thru hub exhaust, 15 tooth spline</p> <p>※ DF200 ~ DF300 : 16 inch diameter propeller recommended</p> <p>** 'LH' means left-hand propeller.</p>	U150 16 X 13	48-78114A45	3	Hub Kit (BH-SE)
		U150 15 1/4 X 15	48-78116A45	3	
		U150 16 X 16	48-16440A45	3	
		U150 15 X 17	48-832828A45	3	
		U150 14 1/2 X 19	48-832830A45	3	
		U150 16 X 20		3	
		U150 16 X 20, LH		3	
		U150 14 1/4 X 21	48-832832A45	3	
		U150 16 X 21 1/2		3	
		U150 16 X 21 1/2, LH		3	
		U150 14 X 23	48-832834A45	3	
		4U150 15 X 16	48-834850A45	4	
		4U150 14 X 17	48-8M0084494	4	
		4U150 14 1/2 X 18	48-834852A45	4	
		4U150 14 X 19	48-8M0084495	4	
		4U150 14 X 20	48-834854A45	4	
4U150 14 X 21	48-8M0084496	4			
S150 16 X 20	99105-00800-20P	3	Plastic Bushing		
S150 16 X 21 1/2	99105-00800-215	3			

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Class	Outboard Engine		Description	OEM Part No.	Blds	Remarks
T5		<p>[4 – 6 hp]</p> <ul style="list-style-type: none"> • M4C / 5B (2 stroke) • MFS4 / 5 / 6 (4 stroke) <p>Thru Hub Exhaust, 12 tooth spline</p>	<p>M5 7 7/8 X 8</p> <p>Use Mercury propeller.</p>	3R1B64516-2	3	Rubber Bushing
T8		<p>[8 - 9.8 hp] 2-1/2" Gearcase</p> <p>Fits Nissan/Tohatsu outboards:</p> <ul style="list-style-type: none"> • 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 <p>Fits Mercury outboards:</p> <ul style="list-style-type: none"> • 8, 9.9hp (4 stroke, not Bigfoot) 2005 & Newer <p>Thru hub exhaust, 12 tooth spline</p>	<p>T8 8 1/2 X 7</p>	3B2-64513-0	3	Rubber Bushing
			<p>T8 8 1/2 X 8</p>	3B2B64515-1	3	
A		<p>[9.9 - 20 hp] 2-1/2" Gearcase</p> <ul style="list-style-type: none"> • 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 <p>Thru hub exhaust, 14 tooth spline</p>	<p>T15 9 1/4 X 8</p>	3BAB64516-0	3	Rubber Bushing
			<p>T15 9 1/4 X 9</p>	3BAB64518-0	3	
			<p>T15 9 1/4 X 9 3/4</p>		3	
			<p>T15 9 1/4 X 10</p>	362-64108-0	3	
			<p>T15 9 1/4 X 10 1/2</p>	3BAB64521-0	3	
			<p>T15 9 1/4 X 11</p>		3	
			<p>T15 9 1/4 X 12</p>		3	
B		<p>[25 - 30 hp] 3" Gearcase</p> <p>Fits Nissan/Tohatsu outboards:</p> <ul style="list-style-type: none"> • 25hp 1986-2001 • 25hp (4 stroke) 2002 & Newer • 30hp 1985-2001 • 30hp TLDI 2016 & Newer • 30hp (4 stroke) 2002 & Newer <p>Fits Mercury outboards:</p> <ul style="list-style-type: none"> • 25hp (4 stroke, Not Bigfoot) 2006 & Newer • 30hp (4 stroke, Not Bigfoot) 2006 & Newer <p>Thru hub exhaust, 10 tooth spline</p>	<p>T30 9 7/8 X 9</p>	3R0B64518-0	3	Rubber Bushing
			<p>T30 9 7/8 X 10</p>	3R0B64521-0	3	
			<p>T30 9 7/8 X 11</p>	3R0B64523-0	3	
			<p>T30 9 7/8 X 12</p>	3R0B64525-0	3	
			<p>T30 9 7/8 X 13</p>	3R0B64527-0	3	
			<p>T30 9 7/8 X 14 1/4</p>	349B64529-1	3	
C		<p>[50 – 70 hp] 3-1/4" Gearcase</p> <ul style="list-style-type: none"> • 50hp (50C only) 1987-1991 • 55hp 1981-1988 • 60A & 60B 1986-1999 • 70A & 70B 1981-1995 <p>Thru hub exhaust, 13 tooth spline</p>	<p>U48 12 1/2 X 13</p>		3	Hub Kit (BH-TC48)
			<p>U48 12 1/4 X 15</p>		3	

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Class	Outboard Engine	Description	OEM Part No.	Blds	Remarks	
C	 <p>[35 – 60 hp] 3-1/4" Gearcase</p> <ul style="list-style-type: none"> • 35hp (35B only) thru 1984 • 40hp 1984 & Newer • MFS40 2015 & Newer • 50hp 1992 & Newer • MFS50 2015 & Newer • BFT60 2014 & Newer <p>Thru hub exhaust, 13 tooth spline</p>	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		
						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				
D	 <p>[60-140 hp] 4-1/4" Gearcase</p> <ul style="list-style-type: none"> • 60C (Large gearcase) Thru 1999 • 70C (Large gearcase) Thru 2002 • 75hp TLDI 2010 & Newer • 90hp 1987-2001 • 90hp TLDI 2001 & Newer • 115hp 1992-2001 • 115hp TLDI 2004 & Newer • 120hp 1988 & 2003 • 140hp 1988 & 2003 <p>Thru hub exhaust, 15 tooth spline</p> <p>** U-type can be installed on newer Tohatsu D class engines. (with Hubkit)</p>	T90 13 5/8 X 13	3N4B64527-1	3	Rubber Bushing	
		T90 13 5/8 X 14		3		
		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		
						Hub Kit (BH-TD)
		U90 12 5/8 X 21	3N4B64545-1	3		
		U90 14 X 10	48-854342A45	3		
		U90 14 X 11	48-77338A45	3		
		U90 14 X 13	48-77340A45	3		
		U90 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	48-8M8026560	4		
		4U90 13 7/8 X 13	48-8M8026570	4		
		4U90 13 3/8 X 15	48-8M8026580	4		
		4U90 13 X 17	48-8M8026590	4		
4U90 12 1/2 X 19	48-8M8026600	4				
				Hub Kit (BH-HD)		
	<p>[60-90 hp] 4-1/4" Gearcase</p> <ul style="list-style-type: none"> • BFW60 2014 & Newer • BFT75 2014 & Newer • BFT90 2014 & Newer <p>Thru Hub Exhaust, 15 tooth spline</p>				U90, 4U90 propeller	Hub Kit (BH-HD)



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Class	Outboard Engine	Description	OEM Part No.	Blds	Remarks
A	 <p>[8 - 20 hp] 2-1/2" Gearcase</p> <ul style="list-style-type: none"> • BF 8 2000 & Newer • BF 9.9 1988 & Newer • BF 15 1991 & Newer • BF 20 2003 & Newer <p>Thru hub exhaust, 8 tooth spline</p>	Y15 9 1/4 X 8	58130-ZV4-008AH	3	Rubber Bushing
		Y15 9 1/4 X 9	58130-ZV4-009AH	3	
		Y15 9 1/4 X 9 3/4		3	
		Y15 9 1/4 X 10 1/2	58130-ZV4-010AH	3	
		Y15 9 1/4 X 11		3	
		Y15 9 1/4 X 12		3	
B	 <p>[25 - 30 hp] 3" Gearcase</p> <ul style="list-style-type: none"> • BF 25 1994 & Newer • BF 30 1995 & Newer <p>Thru hub exhaust, 10 tooth spline</p>	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	   <p>[35 - 60 hp] 3-1/4" Gearcase</p> <ul style="list-style-type: none"> • BF 35 1991-1994 • BF 40 1995 & Newer • BF 45 1991-1994 • BF 50 / 50A 1995 & Newer • BF 60 / 60A 2010 & Newer <p>Thru hub exhaust, 13 tooth spline</p>	Y40 12 1/4 X 9	58130-ZV5-009AH	3	Rubber Bushing
		Y40 11 3/4 X 10		3	
		Y40 11 5/8 X 11	58130-ZV5-011AH	3	
		Y40 10 5/8 X 12		3	
		Y40 11 3/8 X 12	58130-ZV5-012AH	3	
		Y40 10 3/8 X 13		3	
		Y40 11 1/8 X 13	58130-ZV5-013AH	3	
		Y40 10 1/4 X 14		3	
		Y40 11 1/4 X 14	58130-ZV5-014AH	3	
		Y40 11 X 15	58130-ZV5-015AH	3	
		U40 12 1/4 X 9		3	Hub Kit (BH-HC)
		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	 <p>[60 - 130 hp] 4-1/4" Gearcase</p> <ul style="list-style-type: none"> • BFP 60 2010 & Newer • BF 75 1995 & Newer • BF 90 1995 & Newer • BF 100 2016 & Newer • BF 115 1998-2010 • BF 130 1998-2004 <p>Thru hub exhaust, 15 tooth spline</p> <p>*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).</p>	U90 14 X 10	48-854342A45	3	Hub Kit (BH-HD)
		U90 14 X 11	48-77338A45	3	
		U90 14 X 13	48-77340A45	3	
		U90 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	48-8M8026560	4	
		4U90 13 7/8 X 13	48-8M8026570	4	
		4U90 13 3/8 X 15	48-8M8026580	4	
		4U90 13 X 17	48-8M8026590	4	
		4U90 12 1/2 X 19	48-8M8026600	4	
		E	 <p>[115 - 250 hp] 4-3/4" Gearcase</p> <ul style="list-style-type: none"> • BF115 2011 & Newer • BF135 2004 & Newer • BF150 2004 & Newer • BF200 2002 & Newer • BF225 2002 & Newer • BF250 2012 & Newer <p>Thru hub exhaust, 15 tooth spline</p> <p>** 'LH' means left-hand propeller.</p>	U150 16 X 13	
U150 15 1/4 X 15	48-78116A45			3	
U150 16 X 16	48-16440A45			3	
U150 15 X 17	48-832828A45			3	
U150 14 1/2 X 19	48-832830A45			3	
U150 16 X 20				3	
U150 16 X 20, LH				3	
U150 14 1/4 X 21	48-832832A45			3	
U150 16 X 21 1/2				3	
U150 16 X 21 1/2, LH				3	
U150 14 X 23	48-832834A45			3	
4U150 15 X 16	48-834850A45			4	
4U150 14 X 17	48-8M0084494			4	
4U150 14 1/2 X 18	48-834852A45			4	
4U150 14 X 19	48-8M0084495			4	
4U150 14 X 20	48-834854A45			4	
4U150 14 X 21	48-8M0084496			4	

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Class	Outboard Engine		Description	OEM Part No.	Blds	Remarks
A		<p>[8 - 15 hp] 2-1/2" Gearcase</p> <ul style="list-style-type: none"> • 8 hp (4 stroke) 1996-2005 • 9.9 & 15hp (2 stroke) 1974-2005 • 9.9 & 15hp (4 Stroke) 1995-2001 <p>Thru Hub Exhaust, 13 tooth spline</p>	J15 9 1/2 X 10	778772	3	Rubber Bushing
			J25 10 X 13	778863	3	Rubber Bushing
B		<p>[15 - 35 hp] 3" Gearcase</p> <ul style="list-style-type: none"> • 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 <p>Thru Hub Exhaust, 14 tooth spline</p>	J25 10 X 13	778863	3	Rubber Bushing
			J25 10 X 15	763486	3	Rubber Bushing
C		<p>[40 - 50 hp] 3-1/4" Gearcase</p> <ul style="list-style-type: none"> • 40hp (4 stroke) 1999-2005 • 50hp (4 stroke) 1999-2005 <p>Thru Hub Exhaust, 13 tooth spline</p>	S40 11 1/2 X 11		3	Rubber Bushing
			S40 11 1/2 X 12		3	
			S40 11 1/2 X 13		3	
			S40 11 1/2 X 14		3	
			S40 11 1/4 X 15		3	
			S40 11 1/8 X 16		3	
			S40 11 X 17		3	
			U40 12 1/4 X 9		3	Hub Kit (BH-SJC)
			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				
	<p>[40 - 75 hp] 3-3/8" Gearcase</p> <ul style="list-style-type: none"> • 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 <p>Thru Hub Exhaust, 13 tooth spline</p>	J48 12 1/2 X 13	763461	3	Rubber Bushing	
		J48 12 1/4 X 15	778774	3	Rubber Bushing	
		U48 12 1/2 X 13		3	Hub Kit (BH-JC48)	
		U48 12 1/4 X 15		3		

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Class	Outboard Engine	Description	OEM Part No.	Blds	Remarks	
D	 <p>[45 - 140 hp] 4-1/4" Gearcase</p> <p>2 Stroke Outboard Engines:</p> <ul style="list-style-type: none"> • 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 <p>4 Stroke Outboard Engines:</p> <ul style="list-style-type: none"> • 60hp 1998 & Newer • 70hp 1998 & Newer • 90hp 2003 & Newer • 115hp 2003 & Newer • 140hp 2003 & Newer <p>Thru hub exhaust, 13 tooth spline</p>	<ul style="list-style-type: none"> • 85hp 1969-1980, 1991-1995 • 88hp 1981-1996 • 90hp 1981 & Newer • 90hp (E-Tec) 2004 & Newer • 100hp 1979-1980, 1988-1993 • 110hp 1986-1989 • 112hp 1994-1996 • 115hp 1973 & Newer • 115hp (E-Tec) 2004 & Newer • 120hp 1986-1994 • 125hp 1971-1972 • 130hp (E-Tec) 2004 & Newer • 135hp 1973-1976 • 140hp 1977-1994 <p>Sterndrives: Model 400</p> <ul style="list-style-type: none"> • 2.3 L (120hp) thru 1991 • 2.5 L (120hp) 1978-1984 • 3.0 L (140hp) Thru 1989 <p>Cobra</p> <ul style="list-style-type: none"> • 2.3 L (128hp) 1988-1991 • 2.5 L (120hp) 1985-1987 • 3.0 L (140hp) 1985-1987 	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		
		J70 13 1/4 X 19	763464	3		
	 <p>[90, 115 & 140 hp] 4-1/4" Gearcase</p> <ul style="list-style-type: none"> • 90, 115, 140hp (4 stroke) 2002-2007 <p>Thru Hub Exhaust, 15 tooth spline</p>	S90 14 X 15		3	Rubber Bushing	
		S90 14 X 16		3		
		S90 14 X 17		3		
		S90 14 X 19		3		
		S90 14 X 21		3		
E	   <p>[90 - 300 hp] 4-3/4" Gearcase</p> <p>2 Stroke Outboard Engines:</p> <ul style="list-style-type: none"> • 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 <p>Sterndrives: Model 800, Cobra & King Cobra :</p> <ul style="list-style-type: none"> • 3.0 L - 8.2 L (non SX drives) 1990-1993 • Cobra 5.8 L 1990-1993 • SeaDrive 2.0-4.0L All Years <p>Thru hub exhaust, 15 tooth spline</p> <p>* For the models prior to year 1990, the thrust washer for Mercury D is required. (BH-JE with Mercury thrust washer)</p> <p>* 200~225hp (4 Stroke) : Suzuki E propeller recommended</p>	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)	
		U150 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 X 17	48-8M0084494	4		
		4U150 14 1/2 X 18	48-834852A45	4		
		4U150 14 X 19	48-8M0084495	4		
		4U150 14 X 20	48-834854A45	4		
4U150 14 X 21	48-8M0084496	4				





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Class	Outboard Engine	Description	Blds	Remarks
5	 <p>[2.5 – 5 hp] PARSUN •F2.6 / F4 / F5 •T2.5 / T3.6 Non-thru Hub Exhaust, 9 tooth spline</p>	Y5 7 1/2 X 7	3	Rubber Bushing
		Y5 7 1/2 X 8	3	
	 <p>[4 - 9.8 hp] PARSUN •T4 / T5 / T5.8 •T6 / T8 / T9.8 Thru Hub Exhaust, 12 tooth spline</p>	M5 7 7/8 X 8	3	
8	 <p>[6 - 8 hp] PARSUN SELVA •F6 / F8 / F9.8 (4 stroke) All years •8hp (Ray) Thru Hub Exhaust, 7 tooth spline •9.9hp (Pike) 2014 & Newer</p>	Y8 8 1/2 X 8 1/2	3	Rubber Bushing
		Y8 8 1/2 X 9 1/4	3	
A	 <p>[9.9 - 15 hp] 2-1/2" Gearcase PARSUN SELVA •F9.9 / F15 (4 stroke) All years •9.9XS (Wahoo) •T9.9 / T15 •15hp (Wahoo) 2014 & Newer Thru Hub Exhaust, 8 tooth spline</p>	Y15 9 1/4 X 8	3	Rubber Bushing
		Y15 9 1/4 X 9	3	
		Y15 9 1/4 X 9 3/4	3	
		Y15 9 1/4 X 10 1/2	3	
		Y15 9 1/4 X 11	3	
B	 <p>[20 - 30 hp] 3" Gearcase PARSUN SELVA •F20 / F25 (4 stroke) All years •25hp (Kingfish) 2014 & Newer •T20 / T25 / T30 All years Thru Hub Exhaust, 10 tooth spline</p>	Y30 9 7/8 X 9	3	Rubber Bushing
		Y30 9 7/8 X 10 1/2	3	
		Y30 9 7/8 X 11 1/4	3	
		Y30 9 7/8 X 12	3	
		Y30 9 7/8 X 13	3	
		Y30 9 7/8 X 14	3	
C	   <p>[15 - 60 hp] 3-1/2" Gearcase PARSUN SELVA •T35 / T40 All years •15XS EFI (Aruana) •20XS (Dorado) •25XS (Dorado) •30XS (Dorado) •40EFI (Aruana) •50XSR (Dorado) •60EFI (Dorado) •60XSR EFI (Dorado) 2014 & Newer Thru Hub Exhaust, 13 tooth spline</p>	Y40 12 1/4 X 9	3	Rubber Bushing
		Y40 11 3/4 X 10	3	
		Y40 11 5/8 X 11	3	
		Y40 10 5/8 X 12	3	
		Y40 11 3/8 X 12	3	
		Y40 10 3/8 X 13	3	
		Y40 11 1/8 X 13	3	Hub Kit (BH-YC)
		Y40 10 1/4 X 14	3	
		Y40 11 1/4 X 14	3	
		Y40 11 X 15	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	4			
4U40 10 3/8 X 13	4			
4U40 10 1/8 X 14	4			
4U40 10 1/8 X 15	4			

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Class	Outboard Engine	Description	Blds	Remarks
D	   <p>[30 – 115 hp] 4-1/4" Gearcase</p> <p>PARSUN •T60 / T75 All years •T85 / T90 All years</p> <p>SELVA •30XS (Marlin) •40XS (Marlin, Tarpon) •50XS (Marlin, Murena) •70XSR EFI(Murena) •80XS (Marlin) •100XS (Marlin) •115 EFI (Tarpon) 2014 & Newer</p> <p>Thru Hub Exhaust, 15 tooth spline **Use BH-YE on 115hp. For all other hp use BH-YD.</p>	Y90 13 5/8 13	3	Rubber Bushing
		Y90 13 5/8 X 14	3	
		Y90 13 1/2 X 15	3	
		Y90 13 1/4 X 17	3	
		Y90 13 X 19	3	
		Y90 12 5/8 X 21	3	
		U90 14 X 10	3	Hub Kit (BH-YD) or (BH-YE)
		U90 14 X 11	3	
		U90 14 X 13	3	
		U90 13 3/4 X 15	3	
		U90 13 1/4 X 17	3	
		U90 13 X 19	3	
		4U90 13 7/8 X 11	4	
		4U90 13 7/8 X 13	4	
		4U90 13 3/8 X 15	4	
		4U90 13 X 17	4	
4U90 12 1/2 X 19	4			
E	   <p>[150 – 250 hp] 4-3/4" Gearcase</p> <p>SELVA •150XSR (Killer Whale) •150EFI (Killer Whale) •200EFI (Grey Whale) •225EFI (Fin Whale) •250EFI (Blue Whale) 2014 & Newer</p> <p>Thru Hub Exhaust, 15 tooth spline ** 'LH' means left-hand propeller.</p>	Y150 15 1/4 X 15	3	Rubber Bushing
		Y150 14 1/2 X 17	3	
		Y150 14 X 19	3	
		Y150 13 3/4 X 21	3	
		Y150 13 1/2 X 23	3	
		U150 16 X 13	3	Hub Kit (BH-YE)
		U150 15 1/4 X 15	3	
		U150 16 X 16	3	
		U150 15 X 17	3	
		U150 14 1/2 X 19	3	
		U150 16 X 20	3	
		U150 16 X 20, LH	3	
		U150 14 1/4 X 21	3	
		U150 16 X 21 1/2	3	
		U150 16 X 21 1/2, LH	3	
		U150 14 X 23	3	
		4U150 15 X 16	4	
		4U150 14 X 17	4	
4U150 14 1/2 X 18	4			
4U150 14 X 19	4			
4U150 14 X 20	4			
4U150 14 X 21	4			

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OXE Diesel®

Class	Outboard Engine	Description	Blds	Remarks
E	<p>•125, 150, 175, 200 hp</p> <p>Thru Hub Exhaust, 15 tooth spline</p>	Use Mercury E class propellers. See 13 page.	3	Hub Kit (BH-MD)

BAEKSAN HUB KIT LIST

Class	Hub Kit	Description		Class	Hub Kit	Description	
C	BH-YC / YAMAHA		Forward Thrust Washer Aft Drive Adapter 1EA - Washer 1 Plastic Drive Sleeve ★ Nut ★ Cotter pin	D	BH-YD / YAMAHA		Forward Thrust Washer Plastic Drive Sleeve Aft Drive Adapter Spacer ★ Castle Nut ★ Cotter pin
	BH-MC / MERCURY		Forward Thrust Washer Aft Drive Adapter Plastic Drive Sleeve Tab washer ★ Nut		BH-MD / MERCURY		Forward Thrust Washer Plastic Drive Sleeve Aft Drive Adapter Tab washer ★ Nut
	BH-SJC / SUZUKI EVINRUDE (JOHNSON)		Forward Thrust Washer Aft Drive Adapter 2EA - Washer 2 Plastic Drive Sleeve ★ Nut ★ Cotter pin		BH-HD / HONDA		Forward Thrust Washer Plastic Drive Sleeve Aft Drive Adapter ★ Castle Nut ★ Aft washer ★ Washer ★ Cotter pin
	BH-TC / TOHATSU		Forward Thrust Washer Aft Drive Adapter 2EA - Washer 1 Plastic Drive Sleeve ★ Nut ★ Cotter pin		BH-TD / TOHATSU		Forward Thrust Washer Plastic Drive Sleeve Aft Drive Adapter ★ Castle Nut ★ Washer ★ Cotter pin
	BH-HC / HONDA		Forward Thrust Washer Aft Drive Adapter Plastic Drive Sleeve ★ Nut ★ Cotter pin		BH-SD1 / SUZUKI		Forward Thrust Washer Plastic Drive Sleeve Aft Drive Adapter Washer ★ Castle Nut ★ Cotter pin
	BH-JC48 / JOHNSON		Forward Thrust Washer Aft Drive Adapter Plastic Drive Sleeve ★ Nut ★ Cotter pin		BH-SD2 / SUZUKI		Forward Thrust Washer Plastic Drive Sleeve Aft Drive Adapter Washer ★ Castle Nut ★ Cotter pin
	BH-TC48 / TOHATSU		Forward Thrust Washer Aft Drive Adapter Plastic Drive Sleeve ★ Nut ★ Cotter pin		BH-SD3 / SUZUKI		Forward Thrust Washer Plastic Drive Sleeve Aft Drive Adapter Washer ★ Castle Nut ★ Cotter pin
	SX	BH-SX / SX Drive			Forward Thrust Washer Plastic Drive Sleeve Aft Drive Adapter Aft washer ★ Castle Nut ★ Cotter pin	E	BH-YE / YAMAHA
				BH-HE / HONDA			Forward Thrust Washer Plastic Drive Sleeve Aft Drive Adapter ★ Castle Nut ★ Washer ★ Cotter pin
				BH-JE / EVINRUDE (JOHNSON)			Forward Thrust Washer Plastic Drive Sleeve Aft Drive Adapter Aft washer ★ Castle Nut ★ Cotter pin
				BH-SE / SUZUKI			Forward Thrust Washer Plastic Drive Sleeve Aft Drive Adapter Aft washer ★ Castle Nut ★ Washer ★ Cotter pin

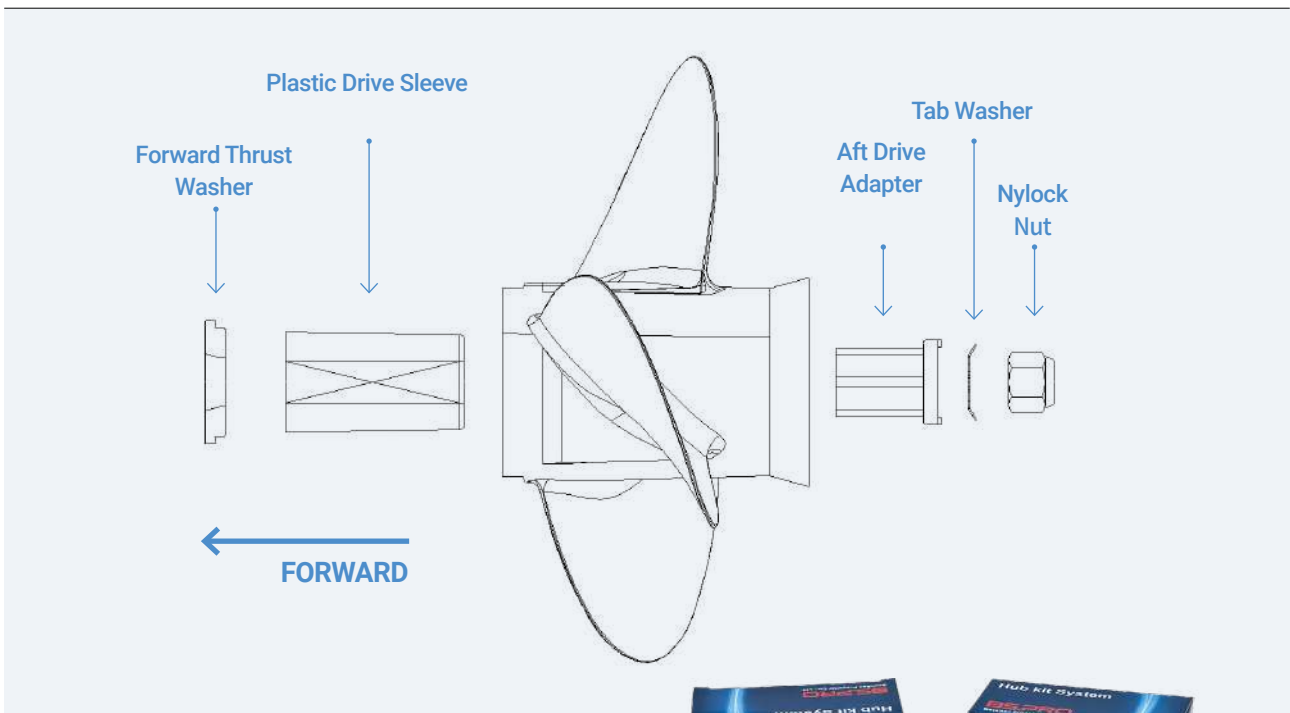
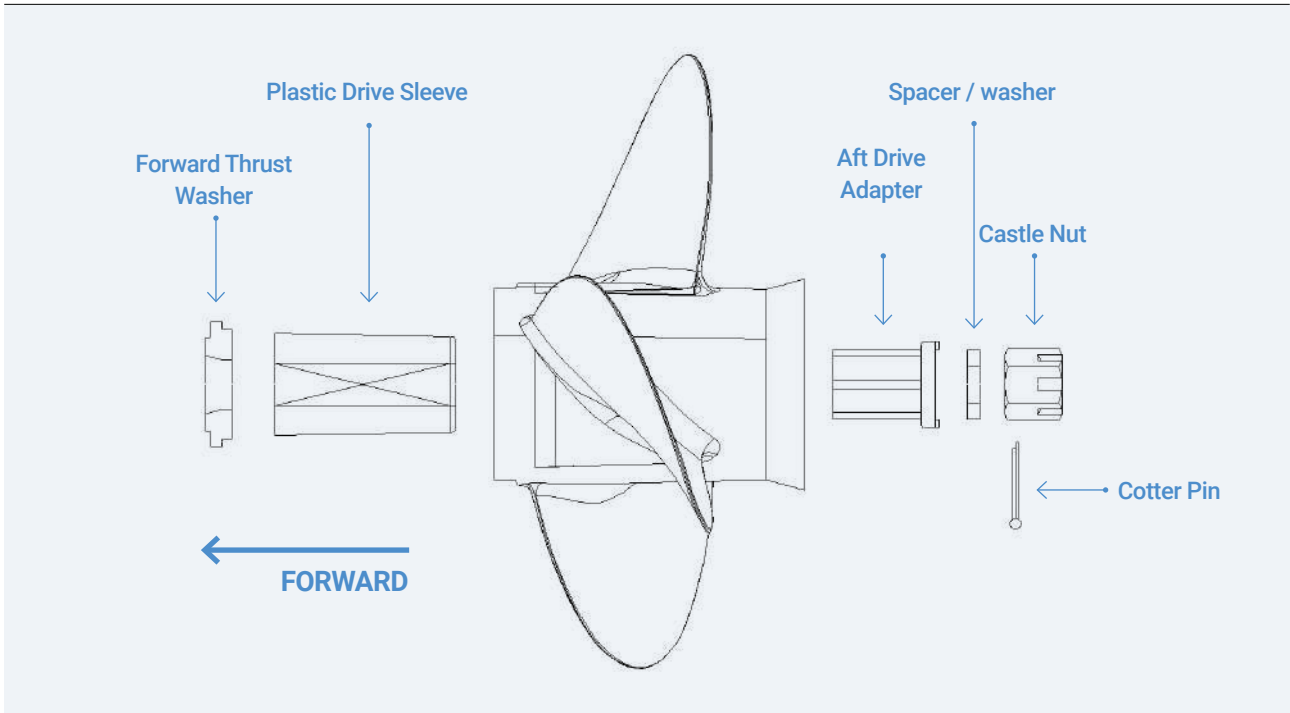
★ not included. Please use O.E.M. parts.

★ Nuts and cotter pins can be purchased separately.(dotted line)

** We also make accessories for rubber bushing propeller.



HOW TO ASSEMBLE HUB KIT WITH PROPELLER



- Image is for reference only.
- Actual components vary depending on application.
- Please refer owner's manual as necessary.
- Please check propeller for tightness before boating.



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.



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Advanced **Quality!**
Economical **Efficiency!**

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BS230000-E



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BaekSan Propeller Co., Ltd.

227, Gamjeoncheon-ro, Sasang-gu, Busan, Republic of Korea
Tel. +82-51-311-4167 Fax. +82-51-313-4983 Web. www.bspp.co.kr

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