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Propeller Quick Reference Chart

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Propellers

Maintenance Items

Oils & Lubes

Detailing & Trailer Supplies

& Accessories

With all that Yamaha has to offer in regard to propellers, virtually any boat can perform at its peak. That includes your customers. From large offshore boats to family and watersports boats to the fastest of bass and bay boats, Yamaha has a propeller solution that's just right for your customers' application. Yamaha propeller solutions. Well beyond expectations.			RH T25, F30-F60 and 40-55 (3.5" Gearcase)	RH T50, T60, F70-F115 and C60-130 (4.25" Gearcase)	LH T50, T60, F70-F115 and C60-130 (4.25" Gearcase)	RH 150-300 and F150 - F300 (V6) (4.75" Gearcase)	LH 150-300 and F150 - F300 (V6) (4.75" Gearcase)	RH V8 (5.25" Gearcase)	LHV8 (5.25"Gearcase)
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Recommended Boat Application

Bass, Bay, Flats, Medium, and Small Boats

Bass, Bay, Flats, and Large Boats

Bass, Bay, and Flats Boats

Medium and Small Boats

Bass, Bay, and Flats Boats

Family and Water Sports

Bass, Bay, Flats, Medium, and Small Boats

Large Boats

Bass, Bay, Flats, and Larger Boats

Family, Water Sports, Medium, and Small Boats

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FX4

 FXP^TM

Hot Shot

Lightning

Offshore 1

Offshore 2

Pontoon 1

Quest™ 3 Blade

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 TXP^TM

TXP 0T4

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Guide (Diagrams)	LH 150-300 and F150 - F300 (V6) (4.75" Gearcase)	RH 150-300 and F150 - F300 (V6) (4.75" Gearcase)	LH T50, T60, F70-F115 and C60-130 (4.25" Gearcase)	RH T50, T60, F70-F115 and C60-130 (4.25"Gearcase)	RH T25, F30-F60 and 40-55 (3.5" Gearcase)
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Rigging Estimate

Rigging

Electrical

Engine

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Yamaha Propeller Descriptions

Endless Propeller Solutions By Yamaha

With all that Yamaha has to offer in regard to propellers, virtually any boat can perform at its peak. That includes yours. From large offshore boats to family and watersports boats to the fastest of bass and bay boats, Yamaha has a propeller solution that's just right for your application. Yamaha propeller solutions. Well beyond expectations.



Shift Dampener System (SDS™)

Yamaha's patent-pending Shift Dampener System uses a unique, splined rubber hub and special aft washer (cam) to distribute and absorb the forces, and the resulting sounds and vibrations, that are normally associated with shifting an outboard into gear. The result: far quieter and smoother, 'clunk free' shifting. "Amazing" is the word most-often used to describe the result. First launched on v6 and v8 outboards SDS™ is now available for Yamaha mid-range outboards using the "K" series (4.25") gearcase with Yamaha Talon™ propellers. A perfect companion to Yamaha's new F115B, SDS™ brings a new level of quiet and comfort to a much broader segment of the market, fitting Yamaha outboards from the F40 up to the F115.



Aluminum Series

Yamaha design, quality, and performance in a low-cost, lightweight propeller. A good all-around choice for your Yamaha outboard. Available in a wide variety of sizes and pitches for Yamaha outboards between 2 and 225 horsepower, in right-hand and select left-hand rotation.



Talon™

Yamaha's high-performance aluminum propeller with Shift Dampener System (SDS™) is designed specifically for Yamaha mid-range outboards. Featuring an all-new blade architecture that's perfect for pontoon, walleye, deep V and fiberglass boats, these props feature a new, replaceable SDS hub that requires no special hardware for proper operation. Talon™ propellers feature a high-efficiency, low slip design, have a 13 ½″ diameter, and are available in 9″, 10.5″, 12″, 14″, and 16″ pitches for engines using the "K" series (4.25″) Gearcase.



Dual Thrust™ Series

Yamaha's Dual Thrust propeller is the answer for heavy loads such as sailboats and pontoons. They're standard on the High Thrust T9.9, and optional on other mid-range engines using the "K" series (4.25") gearcase. They're excellent for use on Yamaha High Thrust models (T50 and T60), as well as the F70, particularly on pontoon applications. Dual Thrust propellers feature a large diameter and blade surface area, a low pitch and rake angle, and a patented oversized center tube which re-directs the exhaust away from the blades when in reverse. This helps the prop bite 'clean' water, resulting in awesome thrust and control regardless of direction.



Painted Stainless Steel Series

An excellent general-purpose choice. Stainless steel construction allows for a blade that is thinner, more efficient and more durable than an aluminum propeller, with a cost-effective, black paint coating. Available in a wide variety of sizes and pitches for Yamaha outboards between 25 and 300 horsepower, in right-hand and select left-hand rotation.

Performance Series

A proven performer on a wide array of Yamaha outboard-powered boat applications. Highly-polished stainless steel and advanced blade design offer both good looks and good performance. Available in a wide variety of sizes and pitches for Yamaha outboards between 20 and 225 horsepower, in right-hand and select left-hand rotation.



Performance Series 4-Blade

Four blades improves hole shot, acceleration, and overall 'grip' for better performance in rough water or with a high engine mounting height.



Performance XT Series

A step up from our Pro Series, designed with larger, longer blades for strength and improved performance in applications requiring high engine mounting heights, such as boats with jackplates. Available in 23", 25", and 27" pitches, right-hand rotation only.



Performance XL4™ Series

Large offshore boats, such as express cruisers and walk-around models, require massive thrust to plane and additional propeller 'grip' for maximum operational efficiency. Helping to harness the incredible power of Yamaha's 5.3L V8 outboards, these new four-bladed propellers offer outstanding acceleration, quick planing, and improved "grip" to help maintain plane at lower speeds and help eliminate ventilation, particularly in turns and following seas. They're manufactured from the highest-quality stainless steel, for maximum quality and durability. Polished to a lustrous shine, they will be available in 15" and 17" pitches and in both right and left-hand rotation. Please note these particular propellers will only fit Yamaha's line of V8 outboards, using a pressed-in style rubber hub only.



Performance XL4™ - HP Series

Lighter, high-performance offshore boats, such as open fishing-style hulls, can also benefit from the XL4's excellent acceleration, quick planing, and maximum grip of the water. For these craft, Yamaha introduces the new Performance XL4 – HP series of propellers. Offering many of the same performance characteristics of their XL4 bretheren, their advanced blade geometry is specifically designed for Yamaha V8 applications where higher speeds are enabled by a specific boat's hull design. Featuring a highly-polished stainless steel finish, they will be manufactured to Yamaha's stringent standards in 22 and 24" pitch, right- and left-hand rotation. Please note these particular propellers will only fit Yamaha's line of V8 outboards, using a pressed-in style rubber hub only.



Pontoon Performance Propellers

Don't let the name fool you! This prop is not only a perfect choice for many pontoon boat applications, but also for any boat that requires extra thrust and control for maximum performance and efficiency. Their significantly larger blade area helps provide outstanding thrust and control, with added 'grip' and reduced ventilation in turns and high trim angles. Perfect for many of today's pontoon boats, work boats, or other displacement or semi-planing craft. They're also excellent for many applications using Yamaha's F70 outboard. Manufactured of high-quality stainless steel.



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Generators 8, Acressories

PRO Series™

An excellent performance-oriented choice for single-outboard, high-speed boats requiring "bow lift," such as mid- to large-sized bass, bay, and flats boats. Available in 17", 18", 19", 21" and 23" pitches for 60~130hp two stroke and T60 ~F115 four stroke Yamaha outboards, and 21", 23", 25" and 27" for V6 two-stroke and F150 ~F250 Yamaha four stroke outboards. Right-hand rotation only.



Reliance® Series Propeller

Reliance is CAD-designed to increase performance. Designed primarily for use with Yamaha's F150 outboard, it also provides excellent all-around performance in outboard applications. Faster at all RPM ranges and having better anti-ventilation characteristics (grip) than Yamaha's proven Painted Stainless Steel propellers in most applications, Reliance Series propellers are highly-polished stainless steel, featuring impressive cast-in naming on the barrel and excellent corrosion resistance.



HS4™ "High Seas" Propellers

Many larger boats can benefit from excellent acceleration, quick planing, and maximum 'grip' on the water. For these craft, Yamaha offers our HS4 "High Seas" line of four-bladed propellers. HS4 "High Seas" propellers are designed for certain V6 four stroke engines, with thrust to plane, planing at slower outboard speeds, and resistance to ventilation in high seas. It's all there, and they're all Yamaha. Made of high-quality stainless steel to Yamaha's exacting standards of quality and durability. Highly-polished stainless steel with cast-in naming on the barrel, they're as impressive out of the water as they are in the water.



Saltwater Series II™

A powerful choice for today's larger offshore boats, Saltwater Series II propellers are a highly-polished, larger diameter design. Aggressive rake and extra cupping on the blades provides superior midrange fuel efficiency, along with excellent anti-ventilation characteristics. For offshore fishermen, that translates to longer cruising range and better handling in rough seas. Also available with the SDS Shift Dampening System.



Saltwater Series XL®

For use exclusively with the new V8 5.3L four stroke Yamaha outboards. Designed to harness the awesome power of these outboards and turn it into massive amounts of thrust, Saltwater Series XL propellers have more diameter and 21% more blade area that even our largest Saltwater Series II™ propellers. This helps the F350 generate up to 45% more thrust than 250hp-class outboards, and provides large offshore boats with plenty of power to plane, acceleration, and top-end speed. Also available with the SDS Shift Dampening System. (NOTE: deduct two inches of pitch for same or similar performance when converting non-SDS XL propellers to SDS-equipped Saltwater Series XL propellers)



Small Hub Series

A highly-specialized propeller designed for specific applications using 60hp – 200hp outboards. Features a smaller, "exhaust-over-the-hub" design, allowing the outboard to develop rpm quicker for faster hole shots.

TRP

With two counter rotating propellers and 60% more blade surface, TRP provides transom lifting performance like no other lower unit. The twin polished, stainless steel propellers add more grip for outstanding handling, greater thrust and unmatched hole shot. TRP's crowning achievement, counter rotating propellers, virtually eliminate steering torque, providing smooth steering even at high jack plate and trim positions. The increased prop area and counter rotation provides the distinct advantage of planing boats quickly by lifting the transom up on top of the water which helps to reduce bow rise during hole shot. TRP provides excellent shallow water starts, quicker acceleration and outstanding control.



V MAX® Vented Series

Our ultimate performance propeller for bass, flats, and bay boat, two stroke outboard applications. Designed for more acceleration and higher top-end speed than either the Pro Series or Performance XL Series, they also provide superior handling and "grip", not to mention added strength. Perfectly matches our 3.1 and 3.3 Liter V MAX® two stroke powerhouses for legendary V MAX® speed and handling.



V MAX SHO® Series Propellers

To properly harness the awesome power of Yamaha's new V MAX SHO® four stroke outboard, Yamaha offers the V MAX SHO® Series of propellers. Perfect for bass, flats, and bay boats powered by the new V MAX SHO® outboard, these props are purposely designed for awesome acceleration, maximum top-end speed and incredible performance and handling when mated to these outboards. Made of the highestquality stainless steel and featuring a highly-polished finish with cast-in naming on the barrel.(NOTE: Two stroke outboards used in bass, flat, and bay boat applications should be equipped with V MAX Vented Series propellers).



Weedless Propellers

A propeller designed to help keep pesky vegetation in the water and off your customers propeller and prop shaft. The weedless propeller was made for those who run in the weed infested waters in search for the fish that others dare not go after. Weedless propellers with a 91/4 diameter are available in the Aluminum Series, while the 91/8 diameter weedless design is available in painted stainless steel. See the chart below for application information.



Plastic Propellers

A cost effective alternative for metal propellers. Ideal for those who run in debris filled water or those looking for a price point propeller. Available for the 2 HP two stroke or the T9.9 four stroke.



Turbo Propeller Descriptions

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Fusion 4

"Four-blade performance for specialty hulls" Excellent combination of strong acceleration and top-end performance for specialty high-horsepower sterndrive or outboard applications, such as "stepped" offshore hulls and some flats boats. Also excels on jack plate equipped high-horsepower outboard bass or bay boats. Advanced design features very aggressively raked, progressive pitch blades with through-hub, vented exhaust. Four blades help resist ventilation and propeller slip in heavy and/or following seas.



FX4

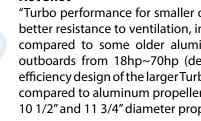
"Four-blade benefits for midrange outboards" Improved bow and stern lift, acceleration, and load carrying ability for 3 and 4 cylinder outboards; provided by its 4-blade design featuring progressive pitch and high rake angle. Helps quickly develop engine RPM and reduce steering torque. Excellent for flats or shallow water boats using 70-130hp, 3 and 4 cylinder outboards with 4.25" gearcases. Works well on a broad range of smaller boats and applications.





"Total performance for Super High Output four stroke outboards" Excels in hole shot, acceleration, top speed, and handling; all at true tournament loads. Designed specifically for ultra-high-performance four stroke outboards like Yamaha's V MAX SHO®. Advanced design lifts the entire boat, dramatically decreasing drag and increasing performance. It provides very minimal bow rise, critical during oftencrowded tournament blast-offs. Steering torque and operator fatigue, normally associated with high engine mounting heights, is greatly reduced. Now with pressed in hub for added durability.

Hot Shot



"Turbo performance for smaller outboards" Offers reduced slip, enhanced durability, better resistance to ventilation, increased performance, and improved fuel efficiency compared to some older aluminum designs. Specifically for smaller horsepower outboards from 18hp~70hp (depending on manufacturer), using the same highefficiency design of the larger Turbo® propellers. Increased performance and durability compared to aluminum propellers. 10 1/8" diameter propellers have pressed-in hubs. 10 1/2" and 11 3/4" diameter propellers use Guardian SQ-Lok™ system.

Lightning



"High performance prop for high performance boats" Excellent speed, handling, and bow lift characteristics. Ideal for boats featuring higher engine and drive mounting heights, such as bass and flats boats; particularly those featuring older, heavier designs. Also works well in tri-log pontoon boat applications using V6 outboard power. Lighting's thick blades increase strength, longevity and durability. Aggressive pitch, high rake angle and large diameter. Designed for Mercury®, Johnson®/Evinrude®, Suzuki® and Yamaha V6 and Johnson®/Evinrude® V8 outboards. Thick blades increase strength, longevity and durability.

Offshore I & II



"Exclusively designed for outboard powered offshore boats" Superlative load carrying ability and transom and bow lift for large, heavy offshore boats using outboard power. Provides outstanding speed and fuel efficiencies at cruise RPM, while reducing ventilation and slip normally caused by rough water and/or following seas.

Excellent for 200 - 300hp V6 offshore-type applications in single or multiple engine configurations. Offshore II propellers also work well in sterndrive applications. Offshore I = 4-blade design. Offshore II = 3-blade design.

Pontoon 1

"Extra thrust and added control" Outstanding thrust and control on outboard powered (twin-log) pontoon boats, deck boats, sailboats and utility/work boats, for increased acceleration and maneuverability. Resistant to ventilation, particularly in turns and at high engine trim levels. Features increased trailing edge cup, lower rake, and a larger diameter than typical propellers. Excellent for use with 3 and 4 cylinder outboard applications with 3.5" or 4.25" gearcases. Use on twin-log pontoon boats and some deck boats, sailboats, and utility/work boats where extra thrust, maneuverability, and control are needed. Ideal for many applications using Yamaha's F70 outboard.



Quest™

"Muscle and might for your midrange outboard" Combines outstanding acceleration and load carrying abilities for midrange outboard engines using the intermediate size gearcase (4.25"). Stays "hooked up" in turns and at high engine trim angles, and helps allow the outboard to achieve and sustain proper RPM throughout the power band. Quest™ propellers are very well suited for 15′ - 18′ utility/work boats and various applications using Yamaha's F70 outboard, due to their lower rake angle and advanced blade design. Available with 3 or 4 blades. Excellent for 3 and 4 cylinder outboard applications using an intermediate (4.25") gearcase. Very well suited for smaller utility/ work boats and Yamaha F70 applications.



Turbo 1

"Turbo's most popular propeller" Enhanced bow lift, excellent performance, and handling characteristics for medium-to-heavily loaded boats. Also excellent for use on high performance, high horsepower pontoon boats with triple logs and lifting strakes (approximately 150hp and above). Makes a great all around propeller. Features advanced blade geometry with progressive pitch, increased blade rake angle and trailing edge cup. Vented blade design for fast hole shot, acceleration and "time-to-plane". Turbo's most popular and best "all around" performance propeller.



Turbo 2+2

"Performance four-blade for deep-drive applications." Improved hole shot, acceleration and ability to effectively power heavier loads on boats using sterndrives or large V6 outboard power with drive units that typically operate while deeply submerged during on-plane operation. Through-hub exhaust and an advanced blade design mean true performance for water sports or family boating.



Turbo 2+2 OT

Turbo 2+2 OT props combine quick hole shots with rapid acceleration and holding power. An over-and-through the hub exhaust design allows the prop to spin up faster at hole shot than complete thru-hub exhaust designs. Four blades helps acceleration and provides additional "grip" over three-bladed propellers. Turbo 2+2 OT props also combine great bow lift with the ability to carry tournament loads to speed, due to their aggressive pitch and high rake angle. 4.75" gearcase, 13 ¾" diameter, right-hand rotation, pitches 18",20",22",23",24",25",26"



TXP™

"Totally Exciting Performance for high-speed hulls" Excellent high-horsepower, high-speed propeller for very light, high-speed boats, particularly those using high engine-mounting heights or a hydraulic jack plate and having naturally greater bow lift "built-in". More aggressive pitch, a higher rake angle and more aggressive cupping than our Lightning model makes TXP™ an excellent prop for "surface piercing" applications. The TXP™ features an advanced blade design that helps create minimum steering torque for less steering effort and operator fatigue.



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Accessories & Apparel

> งenerators & Accessories



TXP™ OT4

"Furious four-blade performance for high-speed boats" Faster hole shots and quicker acceleration, through the use of an over-and through-hub exhaust design which helps the engine develop RPM rapidly. Very aggressive pitch, high rake angle, large diameter and more advanced trailing edge blade cupping makes these props excellent for "surface piercing" applications. Excellent high-horsepower, high-speed propeller for very light, high-speed boats, particularly those using high engine mounting heights or a hydraulic jack plate and having naturally greater bow lift "built-in". Advanced blade design helps reduce steering torque.

Ultima 4

"Power, lift and thrust" Enhanced performance, bow and transom lift and load carrying ability. Resists ventilation and slip, particularly in turns and high engine trim levels. Excellent propeller for flats boats and other applications with high enginemounting height needing stern lift at hole shot and during acceleration. Suitable for V6 outboards utilizing a high engine-mounting or operating height, including those with jack plates. • Excellent propeller for bay and flats boats due to stern lift at hole shot and during acceleration.

Vector

"Big power for deep drives" Faster hole shots and improved planing, with excellent bow lifting characteristics and good performance in rougher water on heavy boats using fully submerged sterndrives, particularly those with twin engines using counter rotation. Large diameter and greater blade area also works well on heavier 22'-27' boats. Specifically for sterndrives like MerCruiser® Bravo® where the props ride fully submerged. Also works well on heavier 22'-27' boats, particularly with twin engines using counter rotation.

What does the Yamaha propeller series mean?

The propeller series simply relates to the gearcase diameter. See the chart below for more information.

Propeller Mark	Model	Gear Case Diameter	Spline Count
Α	2	1.75″	Shear Pin, no Spline
BS	F2.5	2.00"	9
В	4, 5	2.00"	9
BA	4, 5, F4, F4A, F6A	2.00"	9
N	6, 8, F6, F8	2.25"	7
R	T8, T9.9	2.50"	8
J	9.9 ~ F20	2.50"	8
F	20~30, F25	3.00"	10
G	40~55,T25~F60	3.50"	13
K, KL	60~130, T50~F115	4.25"	15
M/T, ML/TL	150~300, F150 ~ F300 (4.2L V6)	4.75"	15
X, XL	F300/F350TR (V8)	5.25"	17

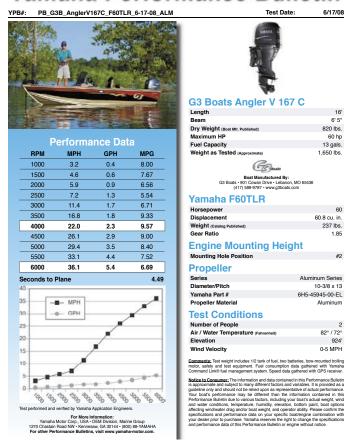
How to Pick a Propeller

When it comes to 'proper propping', there's no magic bullet or one particular prop that perfect for all boat types and engine applications due to the litany of performance variables, but there are ways to 'hone in' on what you need. As a general rule, the correct propeller will allow your engine to reach the upper portion of the WOT (wide open throttle) range specified by the manufacturer without exceeding it, with a normal-to-heavy load. For example, if your outboard says WOT is 5000-6000 rpm, you need a prop that will allow your engine to turn between approximately 5700 and 6000 rpm with your average-to-heavy load in the boat. Be sure to account for things like fuel, full bait and/or live wells, batteries, passengers, and all gear, including safety gear like anchors, ropes, etc.

To begin, check Yamaha's Performance Bulletins on our website: http://yamahaoutboards.com/owner-resources/performance-bulletins.

Choose the type of boat most similar to yours (or the one you want), and note what propeller is listed. Next, check out the propeller solutions applicable to your particular horsepower Yamaha outboard in our propeller charts located in the propellers section of our marine website's landing page http://www.yamahaoutboards/propellers/picking-a-propeller (there's a great deal of other great information in here, too!). Look for the same series name and pitch of propeller as the Performance Bulletin, then adjust the pitch depending on weight and altitude (heavier weight or higher altitude, pitch down...light or low, pitch even or slightly up). Each inch of propeller pitch is equal to approximately 150-200 rpm.

Yamaha Performance Bulletin



Don't see a Performance Bulletin for the same type boat as what you've got? Look on the outside barrel for the pitch or remove the prop and look on the inside of the hub for the propeller 'size', then consult the charts and adjust the pitch accordingly.

Propeller Terminology

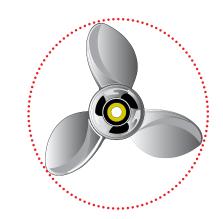
Pitch

Pitch is the distance (in inches) a particular prop would theoretically travel in one full revolution, as if traveling through a solid. A lower pitch will have better hole shot and "pushing power" but a lower top speed, while a higher pitch prop will provide less acceleration, but a greater potential for higher top speeds. The correct propeller will allow your engine to reach the upper portion of the WOT range specified by the manufacturer with a normal-to-heavy load (without exceeding it). Each inch of pitch is equal to approximately 150 +/- 50 RPM.



Diameter

Diameter means the total width of the "circle" at the blade tips as the propeller spins. A larger diameter pushes more water and reaches deeper into the water, so they're typically used on large, heavy boats or ones with high engine mounting heights. A smaller diameter is usually used on lighter weight boats, where the prop operates lower in the water or when a gain in engine RPM is desired.



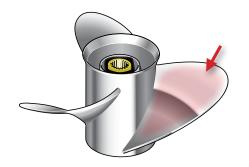
Number of Blades

Three-bladed propellers are the most common, offering good overall performance, top speed, and efficiency for most applications. Four blades characteristically provide increased acceleration, enhanced bow- and stern-lift, and reduced ventilation. However, four blades typically mean more drag on the engine, resulting in lower top speeds and different handling characteristics.



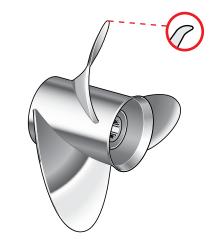
Blade Surface Area

Blade surface area refers to the total surface of the blades. The more blade surface area a prop has the more water it pushes, for better hole shot and increased planing efficiency. Too much can create significantly more drag, however, potentially restricting engine RPM and causing negative boat-handling issues.



Blade Geometry

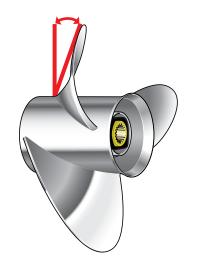
Blade geometry refers to the actual shape of the blade (or ear). By manipulating the blade's shape, diameter and pitch progression, different performance characteristics are created for each different type and style of propeller.



Cup

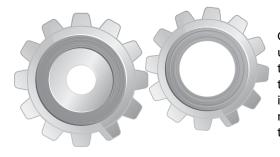
Rake

Cup is the small curved lip on the blade tip and/or trailing edge. Used in proper amounts, cup helps reduce ventilation and propeller slippage, allowing for higher mounting heights and greater bow lift. Too much cup, however, will cause excessive steering torque and bow lift and limit the engine's ability to develop and maintain proper RPM at a certain pitch.



Rake is the angle of the blades in relation to the propeller's barrel, or center, and is expressed in degrees. A high rake propeller is best suited for high engine mount applications by helping reduce ventilation and increasing bow lift. Too much rake, however, strains the engine, decreases hole shot and can produce negative performance and handling results. A propeller with a low rake angle will cause less strain on the engine, resulting in potentially better

hole shot and higher WOT operating rpm.



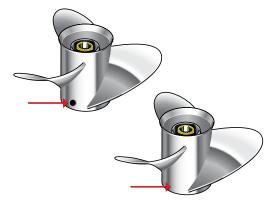
Gear Ratio

Gear ratio on a marine engine refers to the gears used in the lower unit, much like an automobile's transmission. The higher the ratio, the more pushing power the engine will produce. The lower the ratio, the more top speed the engine can potentially generate. It's important to choose a propeller that allows the engine to operate near the upper end of the manufacturer's recommended wide-open throttle (WOT) RPM under normal loads and conditions.

Ventilation

Ventilation is when air is drawn in around the propeller blades. Normally, this causes a gain in rpm, but a loss of speed, since the propeller blades are not biting clean water. This most usually occurs during hard cornering or in certain water conditions, such as following seas.

Controlled ventilation can be beneficial, though, in helping the engine gain rpm during hard acceleration. This is engineered into certain propellers, and is most-usually used on two stroke outboards. An example of this is the small holes in the side of the propeller barrel which allow exhaust to intentionally be drawn in around the blades at hole shot. This helps two stroke engines generate the higher rpm they need for proper hole shot performance. Four stroke engines typically don't need them.



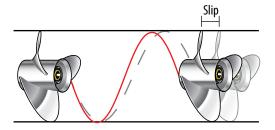
Cavitation

Cavitation occurs when pressure on the water across the blade's surface is reduced to the point of becoming water vapor, forming bubbles. If these bubbles burst, they can cause a cavitation burn which can deteriorate the propeller's surface and cause negative performance issues. As this condition can cause an increase in engine rpm, it's often confused with ventilation.



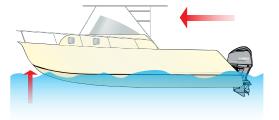
Slip

Slip is the amount of wasted energy a particular prop generates, meaning that the actual distance traveled in one full propeller revolution is less than its pitch measurement. It is normally expressed as a percentage of inefficiency. A certain amount of slip is engineered into each line of propellers to create different performance characteristics.



Hole Shot

"Hole shot" refers to rapid acceleration of the boat, from a standing rest or very slow speed until just on-plane. This is when the engine and the propeller work their hardest.



Propellers for Two Stroke 2-15, and Four Stroke F2.5-F20

Model	Series	Diameter	Pitch	Hub	Part Number**
2	Plastic	7 1/4	4		6A1-45943-00-00
			4 1/2	shear pin	
2	Aluminum	7 1/4		shear pin	646-45944-01-00
2	Aluminum	7 1/4	5 1/2	shear pin	646-45942-01-00
3/F2.5	Aluminum	7 1/4	5	pressed in	6L5-45949-00-00
3/F2.5	Aluminum	7 1/2	5 1/2	pressed in	6L5-45952-00-00
3/F2.5	Aluminum	7 1/4	6	pressed in	6L5-45943-00-00
3/F2.5	Aluminum	7 1/4	7 1/4	pressed in	6L5-45945-00-00
4/5 (84~91)	Aluminum	7 1/4	8	pressed in	6E0-45941-09-00
3/F2.5	Aluminum	7 1/4	8 1/4	pressed in	6L5-45947-00-00
4/F4/F4A/F6A single cyl.	Aluminum	7 1/4	6 1/2	pressed in	6E0-45949-00-00
4/F4/F4A/F6A single cyl.	Aluminum	7 1/4	8 1/4	pressed in	6E0-45952-00-00
4/F4/F4A/F6A single cyl.	Aluminum	7 1/2	7	pressed in	6E0-45943-01-00
4/F4/F4A/F6A single cyl.	Aluminum	7 1/2	8	pressed in	6E0-45941-01-00
4/F4/F4A/F6A single cyl.	Aluminum	7 1/2	9	pressed in	6E0-45954-00-00
6/8/F6/F8/F9.9F	Dual Thrust™, Aluminum	9	5	pressed in	6G1-W4592-00-00
6/8/F6/F8/F9.9F	Dual Thrust™, Aluminum	9	7	pressed in	6G1-W4591-01-00
6/8/F6/F8/F9.9F	Aluminum	8 1/2	6 1/2	pressed in	6G1-45947-00-00
6/8/F6/F8/F9.9F	Aluminum	8 1/2	7 1/2	pressed in	6G1-45943-00-00
6/8/F6/F8/F9.9F	Aluminum	8 1/2	8	pressed in	6G1-45952-00-00
6/8/F6/F8/F9.9F	Aluminum	8 1/2	8 1/2	pressed in	6G1-45941-00-00
T8	Aluminum	11 3/4	5 3/4	pressed in	69G-45941-00-00
F9.9	Dual Thrust, Aluminum	9 3/4	6 1/2	pressed in	683-W4592-02-00
T9.9	Dual Thrust, Aluminum	11 3/4	7	pressed in	69G-45943-00-00
T9.9	Dual Thrust, Aluminum	11 3/4	9 1/4	pressed in	6G8-45947-00-00
T9.9	Dual Thrust, Plastic	11 3/4	9 1/4	pressed in	6G8-45945-00-00
T9.9	Dual Thrust, Plastic	11 3/4	11	pressed in	6G8-45941-00-00
T9.9	Dual Thrust, Plastic	11 3/4	12 1/4	pressed in	6G8-45943-00-00
9.9/15, F9.9, F15C/F20	Aluminum	9 1/2	6 1/2	pressed in	683-45949-00-00
9.9/15, F9.9, F15C/F20	Dual Thrust, Aluminum	9 3/4	8	pressed in	683-W4591-02-00
9.9/15, F9.9, F15C/F20	Weedless, Aluminum	9 1/4	8	pressed in	683-45947-00-00
9.9/15, F9.9, F15C/F20	Weedless, Aluminum	9 1/4	9	pressed in	683-45945-00-00
9.9/15, F9.9, F15C/F20	Aluminum	9 1/4	8	pressed in	63V-45947-00-00**
9.9/15, F9.9, F15C/F20	Aluminum	9 1/4	9	pressed in	63V-45945-10-00**
9.9/15, F9.9, F15C/F20	Aluminum	9 1/4	9 3/4	pressed in	683-45952-00-00
9.9/15, F9.9, F15C/F20	Aluminum	9 1/4	10	pressed in	63V-45952-10-00**
9.9/15, F9.9, F15C/F20	Aluminum	9 1/4	10 1/2	pressed in	683-45943-00-00
9.9/15, F9.9, F15C/F20	Aluminum	9 1/4	11	pressed in	63V-45943-10-00**
9.9/15, F9.9, F15C/F20	Aluminum	9 1/4	12	pressed in	683-45941-00-00
9.9/15, F9.9, F15C/F20	Aluminum	9 1/4	12	pressed in	63V-45941-10-00**
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*NOTE: Propeller does not include deflector ring (6G8-45986-00-00).
**NOTE: Propeller part numbers beginning with "63V-" denote propellers with cupped blades.

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Rigging Estimate Guide (*Diagrams*)

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pellers

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Yamaha Models 20, 25, C25, F25, and 30

F Series Turbo Propellers for Yamaha Outboards

F Series Propellers for 3.0" Gearcases

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
10 5⁄8	8 1/4	RH	Dual Thrust™, Aluminum	pressed in	3	3.0"	6J8-W4591-00-00	Family and Water Sports
9 7/8	8	RH	Aluminum	pressed in	3	3.0"	664-45943-01-00	Family, Water Sports, Medium, and Small Boats
9 7/8	9	RH	Aluminum	pressed in	3	3.0"	664-45941-01-00	Family, Water Sports, Medium, and Small Boats
9 7/8	10 1/2	RH	Aluminum	pressed in	3	3.0"	664-45945-00-00	Family, Water Sports, Medium, and Small Boats
9 7/8	11 1⁄4	RH	Aluminum	pressed in	3	3.0"	664-45947-01-00	Family, Water Sports, Medium, and Small Boats
9 7/8	12	RH	Aluminum	pressed in	3	3.0"	664-45954-01-00	Family, Water Sports, Medium, and Small Boats
9 7/8	13	RH	Aluminum	pressed in	3	3.0"	664-45949-02-00	Family, Water Sports, Medium, and Small Boats
9 7/8	14	RH	Aluminum	pressed in	3	3.0"	664-45952-00-00	Family, Water Sports, Medium, and Small Boats
9 1/8	12	RH	Weedless, Painted Stainless Steel	pressed in	3	3.0"	664-45972-00-00	Medium and Small Boats
9 1/8	13	RH	Weedless, Painted Stainless Steel	pressed in	3	3.0"	664-45970-00-00	Medium and Small Boats
10 1/8	10	RH	Performance 3-Blade	pressed in	3	3.0"	MAR-GYT3B-02-10	Family, Water Sports, Medium, and Small Boats
10 1/8	11	RH	Performance 3-Blade	pressed in	3	3.0"	MAR-GYT3B-02-11	Family, Water Sports, Medium, and Small Boats
10 1/8	12	RH	Performance 3-Blade	pressed in	3	3.0"	MAR-GYT3B-02-12	Family, Water Sports, Medium, and Small Boats
10 1/8	13	RH	Performance 3-Blade	pressed in	3	3.0"	MAR-GYT3B-02-13	Family, Water Sports, Medium, and Small Boats
10 1/8	14	RH	Performance 3-Blade	pressed in	3	3.0"	MAR-GYT3B-02-14	Family, Water Sports, Medium, and Small Boats

Rigging Estimate Guide (*Diagrams)* Rigging Components

Oils & Lubes

F Series Turbo Propellers for Other Outboards

Sel.							or ropeners for	Other Outboards
Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
10 1/8	10	RH	Hot Shot For Johnson®, Evinrude®	pressed-in	3	3.0"	MAR-10110-0R-B0	Medium and Small Boats
10 1/8	11	RH	Hot Shot For Johnson®, Evinrude®	pressed-in	3	3.0"	MAR-10111-0R-B0	Medium and Small Boats
10 1/8	12	RH	Hot Shot For Johnson®, Evinrude®	pressed-in	3	3.0"	MAR-10112-0R-B0	Medium and Small Boats
10 1/8	13	RH	Hot Shot For Johnson®, Evinrude®	pressed-in	3	3.0"	MAR-10113-0R-B0	Medium and Small Boats
10 1/8	14	RH	Hot Shot For Johnson®, Evinrude®	pressed-in	3	3.0"	MAR-10114-0R-B0	Medium and Small Boats
10 1/8	15	RH	Hot Shot For Johnson®, Evinrude®	pressed-in	3	3.0"	MAR-10115-0R-B0	Medium and Small Boats
10 1/8	10	RH	Hot Shot For Mercury®	pressed-in	3	3.0"	MAR-10110-MR-B0	Medium and Small Boats
10 1/8	11	RH	Hot Shot For Mercury®	pressed-in	3	3.0"	MAR-10111-MR-B0	Medium and Small Boats
10 1/8	12	RH	Hot Shot For Mercury®	pressed-in	3	3.0"	MAR-10112-MR-B0	Medium and Small Boats
10 1/8	13	RH	Hot Shot For Mercury®	pressed-in	3	3.0"	MAR-10113-MR-B0	Medium and Small Boats
10 1/8	14	RH	Hot Shot For Mercury®	pressed-in	3	3.0"	MAR-10114-MR-B0	Medium and Small Boats
10 1/8	15	RH	Hot Shot For Mercury®	pressed-in	3	3.0"	MAR-10115-MR-B0	Medium and Small Boats
10 1/8	10	RH	Hot Shot For Nissan®/Tohatsu®	pressed-in	3	3.0"	MAR-10110-NR-B0	Medium and Small Boats
10 1/8	11	RH	Hot Shot For Nissan®/Tohatsu®	pressed-in	3	3.0"	MAR-10111-NR-B0	Medium and Small Boats
10 1/8	12	RH	Hot Shot For Nissan®/Tohatsu®	pressed-in	3	3.0"	MAR-10112-NR-B0	Medium and Small Boats
10 1/8	13	RH	Hot Shot For Nissan®/Tohatsu®	pressed-in	3	3.0"	MAR-10113-NR-B0	Medium and Small Boats
10 1/8	14	RH	Hot Shot For Nissan®/Tohatsu®	pressed-in	3	3.0"	MAR-10114-NR-B0	Medium and Small Boats
10 1/8	15	RH	Hot Shot For Nissan®/Tohatsu®	pressed-in	3	3.0"	MAR-10115-NR-B0	Medium and Small Boats
10 1/8	10	RH	Hot Shot For Suzuki®	pressed-in	3	3.0"	MAR-10110-SR-B0	Medium and Small Boats
10 1/8	11	RH	Hot Shot For Suzuki®	pressed-in	3	3.0"	MAR-10111-SR-B0	Medium and Small Boats
10 1/8	12	RH	Hot Shot For Suzuki®	pressed-in	3	3.0"	MAR-10112-SR-B0	Medium and Small Boats
10 1/8	13	RH	Hot Shot For Suzuki®	pressed-in	3	3.0"	MAR-10113-SR-B0	Medium and Small Boats
10 1/8	14	RH	Hot Shot For Suzuki®	pressed-in	3	3.0"	MAR-10114-SR-B0	Medium and Small Boats
10 1/8	15	RH	Hot Shot For Suzuki®	pressed-in	3	3.0"	MAR-10115-SR-B0	Medium and Small Boats

General formation

Rigging Estimate Guide (*Diagrams)*

G Series Propellers for 3.5" Gearcases

Yamaha Models T25, F30, 40, C40, F40, E48, 50, C50, F50, 55, F60

G Series Propellers for Yamaha Outboards

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
12 1/4	8	RH	Aluminum	pressed in	3	3.5"	63D-45941-00-00	Family, Water Sports, Medium, and Small Boats
12 1/4	9	RH	Dual Thrust™, Aluminum	pressed in	3	3.5"	68U-45941-00-00	Family and Water Sports
12 1⁄4	9	RH	Aluminum	pressed in	3	3.5"	663-45956-01-00	Family, Water Sports, Medium, and Small Boats
11 3⁄8	12	RH	Aluminum	pressed in	3	3.5"	69W-45952-00-00**	Family, Water Sports, Medium, and Small Boats
11 5⁄8	11	RH	Aluminum	pressed in	3	3.5"	69W-45947-00-00**	Family, Water Sports, Medium, and Small Boats
10 5⁄8	12	RH	Aluminum	pressed in	3	3.5"	6H5-45952-00-00**	Family, Water Sports, Medium, and Small Boats
10 3/8	13	RH	Aluminum	pressed in	3	3.5"	6H5-45945-00-00**	Family, Water Sports, Medium, and Small Boats
11 1⁄8	13	RH	Aluminum	pressed in	3	3.5"	69W-45945-00-00**	Family, Water Sports, Medium, and Small Boats
10 1/4	14	RH	Aluminum	pressed in	3	3.5"	6H5-45958-00-00**	Family, Water Sports, Medium, and Small Boats
11 1⁄4	14	RH	Aluminum	pressed in	3	3.5"	663-45958-01-00	Family, Water Sports, Medium, and Small Boats
11 1⁄4	14	RH	Aluminum	pressed in	3	3.5"	69W-45958-00-00**	Family, Water Sports, Medium, and Small Boats
10	15	RH	Aluminum	pressed in	3	3.5"	6H5-45943-00-00**	Family, Water Sports, Medium, and Small Boats
11	15	RH	Aluminum	pressed in	3	3.5"	69W-45943-00-00**	Family, Water Sports, Medium, and Small Boats
10 3⁄4	16	RH	Aluminum	pressed in	3	3.5"	663-45949-01-00	Family, Water Sports, Medium, and Small Boats
10 3⁄4	17	RH	Aluminum	pressed in	3	3.5"	663-45941-01-00	Family, Water Sports, Medium, and Small Boats
10 1/2	12	RH	Performance 3-Blade	pressed in	3	3.5"	MAR-GYT3B-03-12	Family, Water Sports, Medium, and Small Boats
10 1/2	13	RH	Performance 3-Blade	pressed in	3	3.5"	MAR-GYT3B-03-13	Family, Water Sports, Medium, and Small Boats
10 1/2	14	RH	Performance 3-Blade	pressed in	3	3.5"	MAR-GYT3B-03-14	Family, Water Sports, Medium, and Small Boats
10 1/2	15	RH	Performance 3-Blade	pressed in	3	3.5"	MAR-GYT3B-03-15	Family, Water Sports, Medium, and Small Boats

^{**}Propeller part numbers beginning with "6H5-" denote propellers with cupped blades. Propeller part numbers beginning with "69W-" denote heavier-duty propellers.

Maintenance Items

Oils & Lubes

G Series Propellers for Yamaha Outboards Continued...

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
12	11	RH	Painted Stainless Steel	pressed in	3	3.5"	663-45972-60-00	Family, Water Sports, Medium, and Small Boats
11 3/4	12	RH	Painted Stainless Steel	pressed in	3	3.5"	663-45970-60-00	Family, Water Sports, Medium, and Small Boats
11 1/2	13	RH	Painted Stainless Steel	pressed in	3	3.5"	663-45974-60-00	Family, Water Sports, Medium, and Small Boats
10 1/4	14	RH	Painted Stainless Steel	pressed in	3	3.5"	663-45930-00-00	Family, Water Sports, Medium, and Small Boats
11 1/4	14	RH	Painted Stainless Steel	pressed in	3	3.5"	697-45970-00-00	Family, Water Sports, Medium, and Small Boats
10 1/4	15	RH	Painted Stainless Steel	pressed in	3	3.5"	663-45976-00-00	Family, Water Sports, Medium, and Small Boats
10 1/4	16	RH	Painted Stainless Steel	pressed in	3	3.5"	663-45978-00-00	Family, Water Sports, Medium, and Small Boats

G Series Propellers for Yamaha and Other Outboards

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
10 1/2	10	RH	Hot Shot	See Hub Charts*	3	3.5"	MAR-10510-HR-C0	Medium and Small Boats
10 1/2	11	RH	Hot Shot	See Hub Charts*	3	3.5"	MAR-10511-HR-C0	Medium and Small Boats
10 1/2	12	RH	Hot Shot	See Hub Charts*	3	3.5"	MAR-10512-HR-C0	Medium and Small Boats
10 1/2	13	RH	Hot Shot	See Hub Charts*	3	3.5"	MAR-10513-HR-C0	Medium and Small Boats
10 1/2	14	RH	Hot Shot	See Hub Charts*	3	3.5"	MAR-10514-HR-C0	Medium and Small Boats
10 1/2	15	RH	Hot Shot	See Hub Charts*	3	3.5"	MAR-10515-HR-C0	Medium and Small Boats
10 1/2	16	RH	Hot Shot	See Hub Charts*	3	3.5"	MAR-10516-HR-C0	Medium and Small Boats
11 3/4	13	RH	Hot Shot For Johnson®, Evinrude®	See Hub Charts*	3	3.5"	MAR-11713-HR-C0	Medium and Small Boats
11 3/4	15	RH	Hot Shot For Johnson®, Evinrude®	See Hub Charts*	3	3.5"	MAR-11715-HR-C0	Medium and Small Boats
11 3/4	17	RH	Hot Shot For Johnson®, Evinrude®	See Hub Charts*	3	3.5"	MAR-11717-HR-C0	Medium and Small Boats
11 3/4	19	RH	Hot Shot For Johnson®, Evinrude®	See Hub Charts*	3	3.5"	MAR-11719-HR-C0	Medium and Small Boats

^{*} All Turbo propellers "G" series (3.5" gearcase diameter and up require a Guardian SQ-LOK™ hub kit or similar universal hub system. (sold separately) Please see the "Turbo Hub Application Charts" beginning on page 5-37 to determine your required hub.

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THE PERFORMANCE PROP	G Series Propellers for Yamaha and Other Outboards	Continued

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
12	9	RH	PONTOON 1	See Hub Charts*	3	3.5"	MAR-12009-PR-C0	Family, Water Sports, Medium, and Small Boats
12	11	RH	PONTOON 1	See Hub Charts*	3	3.5"	MAR-12011-PR-C0	Family, Water Sports, Medium, and Small Boats
12	12	RH	PONTOON 1	See Hub Charts*	3	3.5"	MAR-12012-PR-C0	Family, Water Sports, Medium, and Small Boats
12	13	RH	PONTOON 1	See Hub Charts*	3	3.5"	MAR-12013-PR-C0	Family, Water Sports, Medium, and Small Boats
12	15	RH	PONTOON 1	See Hub Charts*	3	3.5"	MAR-12015-PR-C0	Family, Water Sports, Medium, and Small Boats
12	9	RH	PONTOON 1 For Johnson®, Evinrude®	See Hub Charts*	3	3.5"	MAR-12109-PR-C0	Family, Water Sports, Medium, and Small Boats
12	11	RH	PONTOON 1 For Johnson®, Evinrude®	See Hub Charts*	3	3.5"	MAR-12111-PR-C0	Family, Water Sports, Medium, and Small Boats
12	12	RH	PONTOON 1 For Johnson®, Evinrude®	See Hub Charts*	3	3.5"	MAR-12112-PR-C0	Family, Water Sports, Medium, and Small Boats
12	13	RH	PONTOON 1 For Johnson®, Evinrude®	See Hub Charts*	3	3.5"	MAR-12113-PR-C0	Family, Water Sports, Medium, and Small Boats
12	15	RH	PONTOON 1 For Johnson®, Evinrude®	See Hub Charts*	3	3.5"	MAR-12115-PR-C0	Family, Water Sports, Medium, and Small Boats

^{*} All Turbo propellers "G" series (3.5" gearcase diameter and up require a Guardian SQ-LOK™ hub kit or similar universal hub system. (sold separately) Please see the "Turbo Hub Application Charts" beginning on page 5-37 to determine your required hub.

K Series Propellers for 4.25" Gearcases

Yamaha Models T50, C60, E60, P60, T60, 70, F70, P75, C75, E75, F75, F80, 90, C90, F90, F100, 115, C115, F115, P115, 130

K Series Propellers for Yamaha Outboards

		Topeners for 18	amana Outboards					
Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
13 1/2	9	RH	Talon	SDS™	3	4.25"	6EK-45941-00-00	Family, Water Sports, Medium, and Small Boats
13 1/2	10.5	RH	Talon	SDS™	3	4.25"	6EK-45943-00-00	Family, Water Sports, Medium, and Small Boats
13 1/2	12	RH	Talon	SDS™	3	4.25"	6EK-45945-00-00	Family, Water Sports, Medium, and Small Boats
13 1/2	14	RH	Talon	SDS™	3	4.25"	6EK-45947-00-00	Family, Water Sports, Medium, and Small Boats
13 1/2	16	RH	Talon	SDS™	3	4.25"	6EK-45949-00-00	Family, Water Sports, Medium, and Small Boats
14	11	RH	Dual Thrust™, Aluminum	pressed in	3	4.25"	685-45941-00-00	Family and Water Sports
14	11	RH	Aluminum	pressed in	3	4.25"	6E5-45954-00-00	Medium, and Small Boats
13 5⁄8	13	RH	Aluminum	pressed in	3	4.25"	6E5-45949-00-00	Medium, and Small Boats
13 5⁄8	14	RH	Aluminum	pressed in	3	4.25"	6E5-45958-00-00	Medium, and Small Boats
13 1/2	15	RH	Aluminum	pressed in	3	4.25"	6E5-45947-00-00	Medium, and Small Boats
13 1⁄4	17	RH	Aluminum	pressed in	3	4.25"	6E5-45945-01-00	Medium, and Small Boats
13 1/2	17	RH	Aluminum (Deep V Series)	pressed in	3	4.25"	68V-45941-00-00**	Medium, and Small Boats
13 1/2	19	RH	Aluminum (Deep V Series)	pressed in	3	4.25"	68V-45943-00-00**	Medium, and Small Boats
13	19	RH	Aluminum	pressed in	3	4.25"	6E5-45941-00-00	Medium, and Small Boats
12 5⁄8	21	RH	Aluminum	pressed in	3	4.25"	6E5-45943-00-00	Medium, and Small Boats
13	23	RH	Aluminum	pressed in	3	4.25"	6E5-45952-00-00	Medium, and Small Boats
13	25	RH	Aluminum	pressed in	3	4.25"	6E5-45956-00-00	Medium, and Small Boats
13 1/2	14	RH	Painted Stainless Steel	pressed in	3	4.25"	688-45932-60-00	Family, Water Sports, Medium, and Small Boats
13 1/2	16	RH	Painted Stainless Steel	pressed in	3	4.25"	688-45978-60-00	Family, Water Sports, Medium, and Small Boats
13	17	RH	Painted Stainless Steel	pressed in	3	4.25"	688-45930-02-00	Family, Water Sports, Medium, and Small Boats
13	17	LH	Painted Stainless Steel	pressed in	3	4.25"	6L6-45930-01-00	Family, Water Sports, Medium, and Small Boats
13	19	RH	Painted Stainless Steel	pressed in	3	4.25"	688-45970-03-00	Family, Water Sports, Medium, and Small Boats
13	19	LH	Painted Stainless Steel	pressed in	3	4.25"	6L6-45970-00-00	Family, Water Sports, Medium, and Small Boats

**Special design improves 'grip' and helps reduce ventilation on deep-vee and mod-vee hulls.

Rigging Estimate Guide (*Diagrams*)

Rigging Components

Electrical Components

Engine Accessories

> Maintenance Items

0ils & Lubes

Detailing & Trailer Supplies

Accessories & Apparel

Oils & Lubes K Series Propellers for Yamaha Outboards Continued...

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
13	21	RH	Painted Stainless Steel	pressed in	3	4.25"	688-45972-02-00	Family, Water Sports Medium, and Small Bo
13	21	LH	Painted Stainless Steel	pressed in	3	4.25"	6L6-45972-00-00	Family, Water Sports Medium, and Small Bo
13	23	RH	Painted Stainless Steel	pressed in	3	4.25"	688-45974-02-00	Family, Water Sports Medium, and Small Bo
13	25	RH	Painted Stainless Steel	pressed in	3	4.25"	688-45976-01-00	Family, Water Sports Medium, and Small Bo
13 1/2	19	RH	Pro Series	pressed in	3	4.25"	62A-45974-10-00	Bass, Bay, and Flats Bo
13 1/4	3 1/4 14 RH Perfo		Performance 3-Blade	pressed in	3	4.25"	MAR-GYT3B-V4-14	Family, Water Sports Medium, and Small Bo
13 1/4	14	LH	Performance 3-Blade	pressed in	3	4.25"	MAR-GYT3B-L4-14	Family, Water Sport Medium, and Small Bo
13 1/4	16	RH	Performance 3-Blade	pressed in	3	4.25"	MAR-GYT3B-V4-16	Family, Water Sport Medium, and Small Bo
13 1/4	16	LH	Performance 3-Blade	pressed in	3	4.25"	MAR-GYT3B-L4-16	Family, Water Sport Medium, and Small Bo
13 1/4	18	RH	Performance 3-Blade	pressed in	3	4.25"	MAR-GYT3B-V4-18	Family, Water Sport Medium, and Small Bo
13 1/4	18	LH	Performance 3-Blade	pressed in	3	4.25"	MAR-GYT3B-L4-18	Family, Water Sport Medium, and Small Bo
13 1/4	20	RH	Performance 3-Blade	pressed in	3	4.25"	MAR-GYT3B-V4-20	Family, Water Sport Medium, and Small B
13 1⁄4	20	LH	Performance 3-Blade	pressed in	3	4.25"	MAR-GYT3B-L4-20	Family, Water Sport Medium, and Small Bo
13 1/4	22	RH	Performance 3-Blade	pressed in	3	4.25"	MAR-GYT3B-V4-22	Family, Water Sport Medium, and Small Bo
13 1/4	22	LH	Performance 3-Blade	pressed in	3	4.25"	MAR-GYT3B-L4-22	Family, Water Sport Medium, and Small Bo
13 1/4	24	RH	Performance 3-Blade	pressed in	3	4.25"	MAR-GYT3B-V4-24	Family, Water Sport Medium, and Small Bo
13 1/4	18	RH	Performance 4-Blade	pressed in	4	4.25"	MAR-GYT4B-V4-18	Bass, Bay, and Flats Bo
13 1/4	20	RH	Performance 4-Blade	pressed in	4	4.25"	MAR-GYT4B-V4-20	Bass, Bay, and Flats Bo
13 1/4	22	RH	Performance 4-Blade	pressed in	4	4.25"	MAR-GYT4B-V4-22	Bass, Bay, and Flats Bo
13 1/4	23	RH	Performance 4-Blade	pressed in	4	4.25"	MAR-GYT4B-V4-23	Bass, Bay, and Flats Bo
14	9	RH	Pontoon Performance Series	pressed in	3	4.25"	MAR-PNTN3-V4-09	Family, Water Sport Medium, and Small B
14	10	RH	Pontoon Performance Series	pressed in	3	4.25"	MAR-PNTN3-V4-10	Family, Water Sport Medium, and Small B
14	11	RH	Pontoon Performance Series	pressed in	3	4.25"	MAR-PNTN3-V4-11	Family, Water Sport Medium, and Small Bo
14	12	RH	Pontoon Performance Series	pressed in	3	4.25"	MAR-PNTN3-V4-12	Family, Water Sport Medium, and Small B
14	13	RH	Pontoon Performance Series	pressed in	3	4.25"	MAR-PNTN3-V4-13	Family, Water Sport Medium, and Small Bo

^{**}Special design improves 'grip' and helps reduce ventilation on deep-vee and mod-vee hulls.

K Series Propellers for Yamaha and Other Outboards

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
13 1/4	14	RH	FX4	See Hub Charts*	4	4.25"	MAR-13414-XR-D0	Bass, Bay, Flats, Medium, and Small Boats
13 1/4	16	RH	FX4	See Hub Charts*	4	4.25"	MAR-13416-XR-D0	Bass, Bay, Flats, Medium, and Small Boats
13 1/4	18	RH	FX4	See Hub Charts*	4	4.25"	MAR-13418-XR-D0	Bass, Bay, Flats, Medium, and Small Boats
13 1/4	20	RH	FX4	See Hub Charts*	4	4.25"	MAR-13420-XR-D0	Bass, Bay, Flats, Medium, and Small Boats
13 1/4	22	RH	FX4	See Hub Charts*	4	4.25″	MAR-13422-XR-D0	Bass, Bay, Flats, Medium, and Small Boats
13 1/4	23	RH	FX4	See Hub Charts*	4	4.25"	MAR-13423-XR-D0	Bass, Bay, Flats, Medium, and Small Boats
13 1/4	24	RH	FX4	See Hub Charts*	4	4.25″	MAR-13424-XR-D0	Bass, Bay, Flats, Medium, and Small Boats
13 1/4	25	RH	FX4	See Hub Charts*	4	4.25"	MAR-13425-XR-D0	Bass, Bay, Flats, Medium, and Small Boats
14	9	RH	PONTOON 1	See Hub Charts*	3	4.25″	MAR-14009-PR-D0	Family, Water Sports, Medium, and Small Boats
14	11	RH	PONTOON 1	See Hub Charts*	3	4.25"	MAR-14011-PR-D0	Family, Water Sports, Medium, and Small Boats
14	13	RH	PONTOON 1	See Hub Charts*	3	4.25″	MAR-14013-PR-D0	Family, Water Sports, Medium, and Small Boats
14	15	RH	PONTOON 1	See Hub Charts*	3	4.25"	MAR-14015-PR-D0	Family, Water Sports, Medium, and Small Boats
14	9	RH	PONTOON 1 For Johnson®, Evinrude®	See Hub Charts*	3	4.25"	MAR-14109-PR-D0	Family, Water Sports, Medium, and Small Boats
14	11	RH	PONTOON 1 For Johnson®, Evinrude®	See Hub Charts*	3	4.25"	MAR-14111-PR-D0	Family, Water Sports, Medium, and Small Boats
14	13	RH	PONTOON 1 For Johnson®, Evinrude®	See Hub Charts*	3	4.25"	MAR-14113-PR-D0	Family, Water Sports, Medium, and Small Boats
14	15	RH	PONTOON 1 For Johnson®, Evinrude®	See Hub Charts*	3	4.25"	MAR-14115-PR-D0	Family, Water Sports, Medium, and Small Boats
13 1/4	13	RH	TURBO 1	See Hub Charts*	3	4.25″	MAR-13213-TR-D0	Family, Water Sports, Medium, and Small Boats
13 1/4	15	RH	TURBO 1	See Hub Charts*	3	4.25"	MAR-13215-TR-D0	Family, Water Sports, Medium, and Small Boats
13 1/4	17	RH	TURBO 1	See Hub Charts*	3	4.25″	MAR-13217-TR-D0	Family, Water Sports, Medium, and Small Boats
13 1/4	19	RH	TURBO 1	See Hub Charts*	3	4.25"	MAR-13219-TR-D0	Family, Water Sports, Medium, and Small Boats
13 1/4	21	RH	TURBO 1	See Hub Charts*	3	4.25″	MAR-13221-TR-D0	Family, Water Sports, Medium, and Small Boats
13 1/4	23	RH	TURBO 1	See Hub Charts*	3	4.25"	MAR-13223-TR-D0	Family, Water Sports, Medium, and Small Boats

^{*} All Turbo propellers "G" series (3.5" gearcase diameter and up require a Guardian SQ-LOK™ hub kit or similar universal hub system. (sold separately) Please see the "Turbo Hub Application Charts" beginning on page 5-37 to determine your required hub.

Rigging Estimate Guide (*Diagrams*)

Rigging Components

Electrical Components

Engine Accessories

Maintenance

Oils & Lubes

Detailing & Trailer Supplies

Accessories & Apparel

Rigging Estimate Guide (*Diagrams)*

Engine Accessories

Maintenance Items

Oils & Lubes

Detailing & Trailer Supplies K Series Propellers for Yamaha and Other Outboards Continued...

	Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
. [14	16	RH	TURBO 1 FOR SUZUKI®	See Hub Charts*	3	4.25″	MAR-14016-SR-E0	Family, Water Sports, Medium, and Small Boats
	14	18	RH	TURBO 1 FOR SUZUKI®	See Hub Charts*	3	4.25"	MAR-14018-SR-E0	Family, Water Sports, Medium, and Small Boats
	14	20	RH	TURBO 1 FOR SUZUKI®	See Hub Charts*	3	4.25"	MAR-14020-SR-E0	Family, Water Sports, Medium, and Small Boats
	14	22	RH	TURBO 1 FOR SUZUKI®	See Hub Charts*	3	4.25"	MAR-14022-SR-E0	Family, Water Sports, Medium, and Small Boats
	13 1/8	15	RH	QUEST™	See Hub Charts*	3	4.25"	MAR-13115-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	16	RH	QUEST™	See Hub Charts*	3	4.25"	MAR-13116-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	17	RH	QUEST™	See Hub Charts*	3	4.25″	MAR-13117-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	18	RH	QUEST™	See Hub Charts*	3	4.25″	MAR-13118-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	19	RH	QUEST™	See Hub Charts*	3	4.25″	MAR-13119-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	20	RH	QUEST™	See Hub Charts*	3	4.25"	MAR-13120-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	21	RH	QUEST™	See Hub Charts*	3	4.25″	MAR-13121-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	14	RH	QUEST™	See Hub Charts*	4	4.25"	MAR-13414-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	15	RH	QUEST™	See Hub Charts*	4	4.25″	MAR-13415-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	16	RH	QUEST™	See Hub Charts*	4	4.25"	MAR-13416-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	17	RH	QUEST™	See Hub Charts*	4	4.25″	MAR-13417-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	18	RH	QUEST™	See Hub Charts*	4	4.25″	MAR-13418-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	19	RH	QUEST™	See Hub Charts*	4	4.25"	MAR-13419-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	20	RH	QUEST™	See Hub Charts*	4	4.25″	MAR-13420-QR-D0	Family, Water Sports, Medium, and Small Boats
	13 1/8	21	RH	QUEST™	See Hub Charts*	4	4.25"	MAR-13421-QR-D0	Family, Water Sports, Medium, and Small Boats

^{*} All Turbo propellers "G" series (3.5" gearcase diameter and up require a Guardian SQ-LOK™ hub kit or similar universal hub system. (sold separately) Please see the "Turbo Hub Application Charts" beginning on page 5-37 to determine your required hub.

& Access

Mor T Series Propellers for 4.75" Gearcases

Yamaha Models150-300, F150-F300 (V6)

M or T Series Propellers for Yamaha Outboards

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
15 1/4	15	RH	Aluminum	pressed in	3	4.75"	6G5-45941-00-00*	Family, Water Sports, Medium, and Small Boats
14 5⁄8	16	RH	Aluminum	pressed in	3	4.75"	6G5-45952-00-00*	Family, Water Sports, Medium, and Small Boats
14 1/2	17	RH	Aluminum	pressed in	3	4.75"	6G5-45947-01-00*	Family, Water Sports, Medium, and Small Boats
14 1/2	17	LH	Aluminum	pressed in	3	4.75"	6K1-45947-00-00*	Family, Water Sports, Medium, and Small Boats
14	19	RH	Aluminum	pressed in	3	4.75"	6G5-45945-01-00*	Family, Water Sports, Medium, and Small Boats
14	19	LH	Aluminum	pressed in	3	4.75"	6K1-45945-00-00*	Family, Water Sports, Medium, and Small Boats
13 3/4	21	RH	Aluminum	pressed in	3	4.75"	6G5-45943-01-00*	Family, Water Sports, Medium, and Small Boats
13 1/2	23	RH	Aluminum	pressed in	3	4.75"	6G5-45949-00-00*	Family, Water Sports, Medium, and Small Boats
15	17	RH	Painted Stainless Steel	pressed in	3	4.75"	61A-45978-00-00**	Family, Water Sports, Medium, and Small Boats
15	17	LH	Painted Stainless Steel	pressed in	3	4.75"	61B-45978-00-00**	Family, Water Sports, Medium, and Small Boats
14 1/2	19	RH	Painted Stainless Steel	pressed in	3	4.75"	61A-45974-00-00**	Family, Water Sports, Medium, and Small Boats
14 1/2	19	LH	Painted Stainless Steel	pressed in	3	4.75"	61B-45974-00-00**	Family, Water Sports, Medium, and Small Boats
14 1/2	21	RH	Painted Stainless Steel	pressed in	3	4.75"	61A-45972-00-00**	Family, Water Sports, Medium, and Small Boats
14 1/2	21	LH	Painted Stainless Steel	pressed in	3	4.75"	61B-45972-00-00**	Family, Water Sports, Medium, and Small Boats
15 3/4	13	RH	Painted Stainless Steel	pressed in	3	4.75"	6G5-45932-00-00	Family, Water Sports, Medium, and Small Boats
15 1/4	15	RH	Painted Stainless Steel	pressed in	3	4.75"	6G5-45970-02-00	Family, Water Sports, Medium, and Small Boats
15 1⁄4	15	LH	Painted Stainless Steel	pressed in	3	4.75"	6K1-45970-01-00	Family, Water Sports, Medium, and Small Boats
13 3/4	17	RH	Painted Stainless Steel	pressed in	3	4.75"	6G5-45978-03-00	Family, Water Sports, Medium, and Small Boats
13 3/4	17	LH	Painted Stainless Steel	pressed in	3	4.75"	6K1-45978-02-00	Family, Water Sports, Medium, and Small Boats
13 3/4	19	RH	Painted Stainless Steel	pressed in	3	4.75"	6G5-45974-03-00	Family, Water Sports, Medium, and Small Boats
13 3/4	19	LH	Painted Stainless Steel	pressed in	3	4.75"	6K1-45974-02-00	Family, Water Sports, Medium, and Small Boats

*Not recommended for outboards over 225hp.

**Recommended for 3.3L outboards, 250-300hp.

†Recommended for 4.2L V6 Offshore outboards, 225-300hp.

General Information

Rigging Estimate Guide (Diagrams)

Rigging Components

Electrical Components

Engine Accessories

Maintenance

0ils & Lubes

M or T Series Propellers for Yamaha Outboards Continued...

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
13 3⁄4	21	RH	Painted Stainless Steel	pressed in	3	4.75"	6G5-45972-02-00	Family, Water Sports, Medium, and Small Boats
13 3⁄4	21	LH	Painted Stainless Steel	pressed in	3	4.75"	6K1-45972-01-00	Family, Water Sports, Medium, and Small Boats
13 3⁄8	23	RH	Painted Stainless Steel	pressed in	3	4.75"	6G5-45976-01-00	Family, Water Sports, Medium, and Small Boats
13 3⁄8	23	LH	Painted Stainless Steel	pressed in	3	4.75"	6K1-45976-00-00	Family, Water Sports, Medium, and Small Boats
14 1⁄4	14	RH	Performance 3-Blade	pressed in	3	4.75"	MAR-GYT3B-V6-14*	Family, Water Sports, Medium, and Small Boats
14 1/4	14	LH	Performance 3-Blade	pressed in	3	4.75"	MAR-GYT3B-L6-14*	Family, Water Sports, Medium, and Small Boats
14 1/4	16	RH	Performance 3-Blade	pressed in	3	4.75"	MAR-GYT3B-V6-16*	Family, Water Sports, Medium, and Small Boats
14 1⁄4	16	LH	Performance 3-Blade	pressed in	3	4.75"	MAR-GYT3B-L6-16*	Family, Water Sports, Medium, and Small Boats
14 1⁄4	18	RH	Performance 3-Blade	pressed in	3	4.75"	MAR-GYT3B-V6-18*	Family, Water Sports, Medium, and Small Boats
14 1/4	18	LH	Performance 3-Blade	pressed in	3	4.75"	MAR-GYT3B-L6-18*	Family, Water Sports, Medium, and Small Boats
14 1⁄4	20	RH	Performance 3-Blade	pressed in	3	4.75"	MAR-GYT3B-V6-20*	Family, Water Sports, Medium, and Small Boats
14 1/4	20	LH	Performance 3-Blade	pressed in	3	4.75"	MAR-GYT3B-L6-20*	Family, Water Sports, Medium, and Small Boats
14 1⁄4	22	RH	Performance 3-Blade	pressed in	3	4.75"	MAR-GYT3B-V6-22*	Family, Water Sports, Medium, and Small Boats
14 1⁄4	22	LH	Performance 3-Blade	pressed in	3	4.75"	MAR-GYT3B-L6-22*	Family, Water Sports, Medium, and Small Boats
14 1/4	24	RH	Performance 3-Blade	pressed in	3	4.75"	MAR-GYT3B-V6-24*	Family, Water Sports, Medium, and Small Boats
14 1⁄4	26	RH	Performance 3-Blade	pressed in	3	4.75"	MAR-GYT3B-V6-26*	Family, Water Sports, Medium, and Small Boats
14 5⁄8	23	RH	Performance XT	pressed in	3	4.75"	MAR-GYT3B-XL-23**	Bass, Bay, and Flats Boats
14 5⁄8	25	RH	Performance XT	pressed in	3	4.75"	MAR-GYT3B-XL-25**	Bass, Bay, and Flats Boats
14 5⁄8	27	RH	Performance XT	pressed in	3	4.75"	MAR-GYT3B-XL-27**	Bass, Bay, and Flats Boats
15 1/8	27	RH	V MAX® (vented)	pressed in	3	4.75"	69L-45970-20-00**	Bass, Bay, and Flats Boats

[&]amp; Appal

Maintenance Items

Oils & Lubes

†Recommended for 4.2L V6 Offshore outboards, 225-300hp.

Generators

^{*}Not recommended for outboards over 225hp.

^{**}Recommended for 3.3L outboards, 250-300hp.

M or T Series Propellers for Yamaha Outboards Continued...

D:	D't-l-	DII /		M of 1 Series Propellers for				
Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
15 1/8	22	RH	V MAX SHO® (ventless)	pressed in	3	4.75"	6CB-45932-10-00†††	Bass, Bay, and Flats Boats
14 1/2	23	RH	V MAX SHO® (ventless)	pressed in	3	4.75"	6CB-45974-00-00†††	Bass, Bay, and Flats Boats
15 1/8	23	RH	V MAX SHO® (ventless)	pressed in	3	4.75"	6CB-45974-10-00†††	Bass, Bay, and Flats Boats
15 1/8	24	RH	V MAX SHO® (ventless)	pressed in	3	4.75"	6CB-45930-10-00†††	Bass, Bay, and Flats Boats
15 1/8	25	RH	V MAX SHO® (ventless)	pressed in	3	4.75"	6CB-45972-00-00†††	Bass, Bay, and Flats Boats
15 1/8	26	RH	V MAX SHO® (ventless)	pressed in	3	4.75"	6CB-45978-10-00†††	Bass, Bay, and Flats Boats
15 1/8	27	RH	V MAX SHO® (ventless)	pressed in	3	4.75"	6CB-45970-00-00†††	Bass, Bay, and Flats Boats
14 3⁄4	29	RH	V MAX SHO® (ventless)	pressed in	3	4.75"	6CB-45976-00-00†††	Bass, Bay, and Flats Boats
14 1/2	21	RH	Pro Series™	pressed in	3	4.75"	6J9-45976-10-00*	Bass, Bay, and Flats Boats
14 1/2	23	RH	Pro Series	pressed in	3	4.75"	66K-45974-B0-00*	Bass, Bay, and Flats Boats
14 1/2	25	RH	Pro Series	pressed in	3	4.75"	66K-45972-B0-00*	Bass, Bay, and Flats Boats
14 1/2	27	RH	Pro Series	pressed in	3	4.75"	66K-45970-B0-00*	Bass, Bay, and Flats Boats
13 3/4	18	RH	Performance 4-Blade	pressed in	4	4.75"	MAR-GYT4B-V6-18*	Bass, Bay, and Flats Boats
13 3/4	20	RH	Performance 4-Blade	pressed in	4	4.75"	MAR-GYT4B-V6-20*	Bass, Bay, and Flats Boats
13 3/4	22	RH	Performance 4-Blade	pressed in	4	4.75"	MAR-GYT4B-V6-22*	Bass, Bay, and Flats Boats
13 3/4	23	RH	Performance 4-Blade	pressed in	4	4.75"	MAR-GYT4B-V6-23*	Bass, Bay, and Flats Boats
13 3/4	24	RH	Performance 4-Blade	pressed in	4	4.75"	MAR-GYT4B-V6-24*	Bass, Bay, and Flats Boats
13 3/4	25	RH	Performance 4-Blade	pressed in	4	4.75"	MAR-GYT4B-V6-25*	Bass, Bay, and Flats Boats
13 3⁄4	26	RH	Performance 4-Blade	pressed in	4	4.75"	MAR-GYT4B-V6-26*	Bass, Bay, and Flats Boats
14 1/2	15	RH	Reliance®	pressed in	3	4.75"	68F-45970-00-00	Family, Water Sports, Medium, and Small Boats
14 1/4	17	RH	Reliance	pressed in	3	4.75"	68F-45972-00-00	Family, Water Sports, Medium, and Small Boats
14 1/4	17	LH	Reliance®	pressed in	3	4.75"	68G-45972-00-00	Family, Water Sports, Medium, and Small Boats
14 1/4	18	RH	Reliance	pressed in	3	4.75"	68F-45978-00-00	Family, Water Sports, Medium, and Small Boats
14 1/4	18	LH	Reliance	pressed in	3	4.75"	68G-45978-00-00	Family, Water Sports, Medium, and Small Boats
13 3/4	19	RH	Reliance	pressed in	3	4.75"	68F-45974-00-00	Family, Water Sports, Medium, and Small Boats
13 3/4	19	LH	Reliance	pressed in	3	4.75"	68G-45974-00-00	Family, Water Sports, Medium, and Small Boats
13 3/4	21	RH	Reliance	pressed in	3	4.75"	68F-45976-00-00	Family, Water Sports, Medium, and Small Boats
13 3/4	21	LH	Reliance	pressed in	3	4.75"	68G-45976-00-00	Family, Water Sports, Medium, and Small Boats

*Not recommended for outboards over 225hp.

**Recommended for 3.3L outboards, 250-300hp.

†Recommended for 4.2L V6 Offshore outboards, 225-300hp.

†††V MAX SHO® only.

Rigging Estimate Guide (*Diagrams*)

Rigging Components

Electrical Components

Engine Accessories

opellers

Maintenance Items

M or T Series Propellers for Yamaha Outboards Continued...

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
14 1/2	15	RH	Reliance® SDS	pressed in	3	4.75"	68F-45970-10-00	Family, Water Sports Medium, and Small Bo
14 1/2	15	LH	Reliance SDS	pressed in	3	4.75"	68G-45970-10-00	Family, Water Sports Medium, and Small Bo
14 1⁄4	17	RH	Reliance SDS	pressed in	3	4.75"	68F-45972-10-00	Family, Water Sports Medium, and Small Bo
14 1/4	17	LH	Reliance SDS	pressed in	3	4.75"	68G-45972-10-00	Family, Water Sports Medium, and Small Bo
14 1/4	18	RH	Reliance SDS	pressed in	3	4.75"	68F-45978-10-00	Family, Water Sports Medium, and Small Bo
14 1/4	18	LH	Reliance SDS	pressed in	3	4.75"	68G-45978-10-00	Family, Water Sports Medium, and Small Bo
13 3/4	19	RH	Reliance SDS	pressed in	3	4.75"	68F-45974-10-00	Family, Water Sports Medium, and Small Bo
13 3/4	19	LH	Reliance SDS	pressed in	3	4.75"	68G-45974-10-00	Family, Water Sports Medium, and Small Bo
13 3⁄4	21	RH	Reliance SDS	pressed in	3	4.75"	68F-45976-10-00	Family, Water Sports Medium, and Small Bo
13 3⁄4	21	LH	Reliance SDS	pressed in	3	4.75"	68G-45976-10-00	Family, Water Sports Medium, and Small Bo
15 3⁄4	15	RH	Saltwater Series II™	pressed in	3	4.75"	6D0-45976-00-00**	Family, Water Sports, a Larger Boats
15 3/4	15	LH	Saltwater Series II™	pressed in	3	4.75"	6D1-45976-00-00**	Family, Water Sports, a Larger Boats
15 1/2	17	RH	Saltwater Series II	pressed in	3	4.75"	6D0-45978-00-00**	Family, Water Sports, a Larger Boats
15 1/2	17	LH	Saltwater Series II	pressed in	3	4.75"	6D1-45978-00-00**	Family, Water Sports, a Larger Boats
15 1⁄4	19	RH	Saltwater Series II	pressed in	3	4.75"	6D0-45970-00-00**	Family, Water Sports, a Larger Boats
15 1⁄4	19	LH	Saltwater Series II	pressed in	3	4.75"	6D1-45970-00-00**	Family, Water Sports, a Larger Boats
15	21	RH	Saltwater Series II	pressed in	3	4.75"	6D0-45972-00-00**	Family, Water Sports, a Larger Boats
15	21	LH	Saltwater Series II	pressed in	3	4.75"	6D1-45972-00-00**	Family, Water Sports, a Larger Boats
14 1/2	23	RH	Saltwater Series	pressed in	3	4.75"	6R4-45974-A0-00**	Family, Water Sports, a Larger Boats
14 1/2	23	LH	Saltwater Series	pressed in	3	4.75"	6R1-45974-A0-00**	Family, Water Sports, a Larger Boats
15 3/4	13	RH	Saltwater Series II - SDS™††	pressed in	3	4.75"	6CE-45930-00-00†	Family, Water Sports, a Larger Boats
15 3/4	13	LH	Saltwater Series II - SDS™††	pressed in	3	4.75"	6CF-45930-00-00†	Family, Water Sports, a Larger Boats
15 3/4	15	RH	Saltwater Series II - SDS††	pressed in	3	4.75"	6CE-45976-00-00†	Family, Water Sports, a Larger Boats
15 3/4	15	LH	Saltwater Series II - SDS††	pressed in	3	4.75"	6CF-45976-00-00†	Family, Water Sports, a Larger Boats

^{*}Not recommended for outboards over 225hp.

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^{**}Recommended for 3.3L outboards, 250-300hp.

[†]Recommended for 4.2L V6 Offshore outboards, 225-300hp.

^{††}Yamaha SDS propellers require special hardware to operate, which is included with Yamaha 4.2L V6 Offshore and 3.3L V6 four stroke "XA" models.

M or T Series Propellers for Yamaha Outboards Continued...

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
15 1/2	17	RH	Saltwater Series II - SDS††	pressed in	3	4.75"	6CE-45978-00-00†	Family, Water Sports, and Larger Boats
15 1/2	17	LH	Saltwater Series II - SDS††	pressed in	3	4.75"	6CF-45978-00-00†	Family, Water Sports, and Larger Boats
15 1/4	19	RH	Saltwater Series II - SDS††	pressed in	3	4.75"	6CE-45970-00-00†	Family, Water Sports, and Larger Boats
15 1/4	19	LH	Saltwater Series II - SDS††	pressed in	3	4.75"	6CF-45970-00-00†	Family, Water Sports, and Larger Boats
15	21	RH	Saltwater Series II - SDS††	pressed in	3	4.75"	6CE-45972-00-00†	Family, Water Sports, and Larger Boats
15	21	LH	Saltwater Series II - SDS††	pressed in	3	4.75"	6CF-45972-00-00†	Family, Water Sports, and Larger Boats
14 3/4	23	RH	Saltwater Series II - SDS††	pressed in	3	4.75"	6CE-45974-00-00†	Family, Water Sports, and Larger Boats
143/4	23	LH	Saltwater Series II - SDS††	pressed in	3	4.75"	6CF-45974-00-00†	Family, Water Sports, and Larger Boats
15	21	RH	HS4™"High Seas" Series	pressed in	4	4.75"	6BR-45B70-00-00**	Larger Boats
15	21	LH	HS4™"High Seas" Series	pressed in	4	4.75"	6BS-45B70-00-00**	Larger Boats
15	22	RH	HS4"High Seas" Series	pressed in	4	4.75"	6BR-45B72-00-00**	Larger Boats
15	22	LH	HS4"High Seas" Series	pressed in	4	4.75"	6BS-45B72-00-00**	Larger Boats
15	23	RH	HS4"High Seas" Series	pressed in	4	4.75"	6BR-45B74-00-00**	Larger Boats
15	23	LH	HS4"High Seas" Series	pressed in	4	4.75"	6BS-45B74-00-00**	Larger Boats
15	21	RH	HS4"High Seas" Series - SDS††	pressed in	4	4.75"	6CE-45B70-00-00**	Larger Boats
15	21	LH	HS4"High Seas" Series - SDS††	pressed in	4	4.75"	6CF-45B70-00-00**	Larger Boats
15	22	RH	HS4"High Seas" Series - SDS††	pressed in	4	4.75"	6CE-45B72-00-00**	Larger Boats
15	22	LH	HS4"High Seas" Series - SDS ††	pressed in	4	4.75"	6CF-45B72-00-00**	Larger Boats
15	23	RH	HS4"High Seas" Series - SDS††	pressed in	4	4.75"	6CE-45B74-00-00**	Larger Boats
15	23	LH	HS4"High Seas" Series - SDS††	pressed in	4	4.75"	6CF-45B74-00-00**	Larger Boats

*Not recommended for outboards over 225hp.

**Recommended for 3.3L outboards, 250-300hp.

†Recommended for 4.2L V6 Offshore outboards, 225-300hp.

††Yamaha SDS propellers require special hardware to operate, which is included with Yamaha 4.2L V6 Offshore and 3.3L V6 four stroke "XA" models.

General Information

Rigging Estimate Guide (*Diagrams*)

Rigging Components

Electrical Components

Engine Accessories

ropellers

Maintenance Items

0ils & Lubes

Detailing & Trailer Supplies

Accessories & Apparel

Oils & Lubes M or T Series Propellers for Yamaha, other Outboards, and Stern Drives

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
14	16	RH	2+2TH	See Hub Charts*	4	4.75"	MAR-14416-HR-E0	Bass, Bay, and Flats Boats
14	18	RH	2+2TH	See Hub Charts*	4	4.75"	MAR-14418-HR-E0	Bass, Bay, and Flats Boats
14	20	RH	2+2TH	See Hub Charts*	4	4.75"	MAR-14420-HR-E0	Bass, Bay, and Flats Boats
14	22	RH	2+2TH	See Hub Charts*	4	4.75"	MAR-14422-HR-E0	Bass, Bay, and Flats Boats
14	24	RH	2+2TH	See Hub Charts*	4	4.75"	MAR-14424-HR-E0	Bass, Bay, and Flats Boats
14	25	RH	2+2TH	See Hub Charts*	4	4.75"	MAR-14425-HR-E0	Bass, Bay, and Flats Boats
14	26	RH	2+2TH	See Hub Charts*	4	4.75"	MAR-14426-HR-E0	Bass, Bay, and Flats Boats
14 1/2	21	RH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14421-FR-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	21	LH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14421-FL-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	22	RH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14422-FR-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	22	LH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14422-FL-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	23	RH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14423-FR-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	23	LH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14423-FL-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	24	RH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14424-FR-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	25	RH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14425-FR-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	26	RH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14426-FR-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	27	RH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14427-FR-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	28	RH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14428-FR-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	29	RH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14429-FR-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	30	RH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14430-FR-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	31	RH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14431-FR-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	32	RH	FUSION 4	See Hub Charts*	4	4.75"	MAR-14432-FR-E0	Bass, Bay, Flats, and Larger Boats
14 3/4	22	RH	FXP	See Hub Charts*	3	4.75"	MAR-14722-R0-00	Bass, Bay, and Flats Boats
14 3/4	23	RH	FXP	See Hub Charts*	3	4.75"	MAR-14723-R0-00	Bass, Bay, and Flats Boats
14 3/4	24	RH	FXP	See Hub Charts*	3	4.75"	MAR-14724-R0-00	Bass, Bay, and Flats Boats
14 3/4	25	RH	FXP	See Hub Charts*	3	4.75"	MAR-14725-R0-00	Bass, Bay, and Flats Boats
14 3/4	26	RH	FXP	See Hub Charts*	3	4.75"	MAR-14726-R0-00	Bass, Bay, and Flats Boats
14 3/4	27	RH	FXP	See Hub Charts*	3	4.75"	MAR-14727-R0-00	Bass, Bay, and Flats Boats

^{*} All Turbo propellers "G" series (3.5" gearcase diameter and up require a Guardian SQ-LOK™ hub kit or similar universal hub system. (sold separately) Please see the "Turbo Hub Application Charts" beginning on page 5-37 to determine your required hub.

M or T Series Propellers for Yamaha, other Outboards, and Stern Drives Continued...

14 1/2 14 1/2 14 1/2 14 1/2 14 1/2 14 3/4 14 3/4	17 19 21	RH/LH RH	Series LIGHTNING	Hub See Hub Charts*	Blades 3	Gearcase	Part Number	Recommended Use
14 1/2 14 1/2 14 3/4	19		LIGHTNING	See Hub Charts*	2		MAD 44547 ID 50	
14 1/2 14 3/4		RH			3	4.75"	MAR-14517-LR-E0	Bass, Bay, and Flats Boats
14 3/4	21		LIGHTNING	See Hub Charts*	3	4.75"	MAR-14519-LR-E0	Bass, Bay, and Flats Boats
		RH	LIGHTNING	See Hub Charts*	3	4.75"	MAR-14521-LR-E0	Bass, Bay, and Flats Boats
143/4	22	RH	LIGHTNING	See Hub Charts*	3	4.75"	MAR-14522-LR-E0	Bass, Bay, and Flats Boats
17 3/ 7	23	RH	LIGHTNING	See Hub Charts*	3	4.75"	MAR-14523-LR-E0	Bass, Bay, and Flats Boats
14 3/4	24	RH	LIGHTNING	See Hub Charts*	3	4.75"	MAR-14524-LR-E0	Bass, Bay, and Flats Boats
14 3/4	25	RH	LIGHTNING	See Hub Charts*	3	4.75"	MAR-14525-LR-E0	Bass, Bay, and Flats Boats
14 3/4	26	RH	LIGHTNING	See Hub Charts*	3	4.75"	MAR-14526-LR-E0	Bass, Bay, and Flats Boats
14 3/4	27	RH	LIGHTNING	See Hub Charts*	3	4.75"	MAR-14527-LR-E0	Bass, Bay, and Flats Boats
15	20	RH	OFFSHORE I FOR SUZUKI®	See Hub Charts*	4	4.75"	MAR-15420-0R-E0	Bass, Bay, Flats, and Larger Boats
15	20	LH	OFFSHORE I FOR SUZUKI®	See Hub Charts*	4	4.75"	MAR-15420-0L-E0	Bass, Bay, Flats, and Larger Boats
15	22	RH	OFFSHORE I FOR SUZUKI®	See Hub Charts*	4	4.75"	MAR-15422-0R-E0	Bass, Bay, Flats, and Larger Boats
15	22	LH	OFFSHORE I FOR SUZUKI®	See Hub Charts*	4	4.75"	MAR-15422-0L-E0	Bass, Bay, Flats, and Larger Boats
15	24	RH	OFFSHORE I FOR SUZUKI®	See Hub Charts*	4	4.75"	MAR-15424-0R-E0	Bass, Bay, Flats, and Larger Boats
15	24	LH	OFFSHORE I FOR SUZUKI®	See Hub Charts*	4	4.75"	MAR-15424-0L-E0	Bass, Bay, Flats, and Larger Boats
15	26	RH	OFFSHORE I FOR SUZUKI®	See Hub Charts*	4	4.75"	MAR-15426-0R-E0	Bass, Bay, Flats, and Larger Boats
15	26	LH	OFFSHORE I FOR SUZUKI®	See Hub Charts*	4	4.75"	MAR-15426-0L-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	15	RH	OFFSHORE I	See Hub Charts*	4	4.75"	MAR-14415-0R-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	15	LH	OFFSHORE I	See Hub Charts*	4	4.75"	MAR-14415-0L-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	17	RH	OFFSHORE I	See Hub Charts*	4	4.75"	MAR-14417-0R-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	17	LH	OFFSHORE I	See Hub Charts*	4	4.75"	MAR-14417-0L-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	19	RH	OFFSHORE I	See Hub Charts*	4	4.75"	MAR-14419-0R-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	19	LH	OFFSHORE I	See Hub Charts*	4	4.75"	MAR-14419-0L-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	21	RH	OFFSHORE I	See Hub Charts*	4	4.75"	MAR-14421-0R-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	21	LH	OFFSHORE I	See Hub Charts*	4	4.75"	MAR-14421-0L-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	23	RH	OFFSHORE I	See Hub Charts*	4	4.75"	MAR-14423-0R-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	23	LH	OFFSHORE I	See Hub Charts*	4	4.75"	MAR-14423-0L-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	25	RH	OFFSHORE I	See Hub Charts*	4	4.75"	MAR-14425-0R-E0	Bass, Bay, Flats, and Larger Boats
14 1/2	25	LH	OFFSHORE I	See Hub Charts*	4	4.75"	MAR-14425-0L-E0	Bass, Bay, Flats, and Larger Boats

^{*} All Turbo propellers "G" series (3.5" gearcase diameter and up require a Guardian SQ-LOK™ hub kit or similar universal hub system. (sold separately) Please see the "Turbo Hub Application Charts" beginning on page 5-37 to determine your required hub.

Rigging Estimate Guide (*Diagrams*)

Rigging Components

Electrical Components

Engine Accessories

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Maintenance Items

0ils & Lubes

Detailing & Trailer Supplies

Accessories & Apparel

Oils & Lubes M or T Series Propellers for Yamaha, other Outboards, and Stern Drives Continued...

	me of the community of the	171	01 1 50			iu, otii	ci outb		eni Drives Continued
	Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
	15	16	RH	OFFSHORE II	See Hub Charts*	3	4.75"	MAR-15016-0R-E0	Larger Boats
	15	16	LH	OFFSHORE II	See Hub Charts*	3	4.75"	MAR-15016-0L-E0	Larger Boats
	15	18	RH	OFFSHORE II	See Hub Charts*	3	4.75"	MAR-15018-0R-E0	Larger Boats
	15	18	LH	OFFSHORE II	See Hub Charts*	3	4.75"	MAR-15018-0L-E0	Larger Boats
	15	20	RH	OFFSHORE II	See Hub Charts*	3	4.75"	MAR-15020-0R-E0	Larger Boats
	15	20	LH	OFFSHORE II	See Hub Charts*	3	4.75"	MAR-15020-0L-E0	Larger Boats
	15	22	RH	OFFSHORE II	See Hub Charts*	3	4.75"	MAR-15022-0R-E0	Larger Boats
	15	22	LH	OFFSHORE II	See Hub Charts*	3	4.75"	MAR-15022-0L-E0	Larger Boats
	15	24	RH	OFFSHORE II	See Hub Charts*	3	4.75"	MAR-15024-0R-E0	Larger Boats
	15	24	LH	OFFSHORE II	See Hub Charts*	3	4.75"	MAR-15024-0L-E0	Larger Boats
	15	26	RH	OFFSHORE II	See Hub Charts*	3	4.75"	MAR-15026-0R-E0	Larger Boats
	15	26	LH	OFFSHORE II	See Hub Charts*	3	4.75"	MAR-15026-0L-E0	Larger Boats
	14 1/4	13	RH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14213-TR-E0	Family, Water Sports, Medium, and Small Boats
	14 1/4	15	RH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14215-TR-E0	Family, Water Sports, Medium, and Small Boats
	14 1/4	15	LH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14215-TL-E0	Family, Water Sports, Medium, and Small Boats
	14 1/4	17	RH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14217-TR-E0	Family, Water Sports, Medium, and Small Boats
	14 1/4	17	LH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14217-TL-E0	Family, Water Sports, Medium, and Small Boats
	14 1/4	19	RH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14219-TR-E0	Family, Water Sports, Medium, and Small Boats
	14 1/4	19	LH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14219-TL-E0	Family, Water Sports, Medium, and Small Boats
	14 1/4	20	RH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14220-TR-E0	Family, Water Sports, Medium, and Small Boats
	14 1/4	21	RH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14221-TR-E0	Family, Water Sports, Medium, and Small Boats
	14 1/4	21	LH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14221-TL-E0	Family, Water Sports, Medium, and Small Boats
	14 1/4	22	RH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14222-TR-E0	Family, Water Sports, Medium, and Small Boats
	14 1/4	23	RH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14223-TR-E0	Family, Water Sports, Medium, and Small Boats
	14 1/4	24	RH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14224-TR-E0	Family, Water Sports, Medium, and Small Boats
	14 1/4	25	RH	TURBO 1	See Hub Charts*	3	4.75"	MAR-14225-TR-E0	Family, Water Sports, Medium, and Small Boats
	143/4	21	RH	TXP™	See Hub Charts*	3	4.75"	MAR-14721-XR-E0	Bass, Bay, and Flats Boats
	143/4	23	RH	ТХР™	See Hub Charts*	3	4.75"	MAR-14723-XR-E0	Bass, Bay, and Flats Boats
	14 3/4	24	RH	ТХР™	See Hub Charts*	3	4.75"	MAR-14724-XR-E0	Bass, Bay, and Flats Boats
	14 3/4	25	RH	ТХР™	See Hub Charts*	3	4.75"	MAR-14725-XR-E0	Bass, Bay, and Flats Boats
	14 3/4	26	RH	ТХР™	See Hub Charts*	3	4.75"	MAR-14726-XR-E0	Bass, Bay, and Flats Boats
	14 3/4	27	RH	ТХР™	See Hub Charts*	3	4.75"	MAR-14727-XR-E0	Bass, Bay, and Flats Boats
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^{*} All Turbo propellers "G" series (3.5" gearcase diameter and up require a Guardian SQ-LOK™ hub kit or similar universal hub system. (sold separately) Please see the "Turbo Hub Application Charts" beginning on page 5-37 to determine your required hub.

M or T Series Propellers for Yamaha, other Outboards, and Stern Drives Continued...

	<u>IE</u> PERFORMANCE PRO		or i Series Propellers for					
Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
14 3/4	28	RH	TXP™	See Hub Charts*	3	4.75"	MAR-14728-XR-E0	Bass, Bay, and Flats Boats
143/4	29	RH	TXP™	See Hub Charts*	3	4.75"	MAR-14729-XR-E0	Bass, Bay, and Flats Boats
14 3/4	30	RH	TXP™	See Hub Charts*	3	4.75"	MAR-14730-XR-E0	Bass, Bay, and Flats Boats
143/4	31	RH	TXP™	See Hub Charts*	3	4.75"	MAR-14731-XR-E0	Bass, Bay, and Flats Boats
14 3/4	32	RH	TXP™	See Hub Charts*	3	4.75"	MAR-14732-XR-E0	Bass, Bay, and Flats Boats
143/4	23	RH	TXP™ (Adjustable Ventilation Ports)	See Hub Charts*	3	4.75"	MAR-14723-XR-EM	Bass, Bay, and Flats Boats
14 3/4	24	RH	TXP™ (Adjustable Ventilation Ports)	See Hub Charts*	3	4.75"	MAR-14724-XR-EM	Bass, Bay, and Flats Boats
14 3/4	25	RH	TXP™ (Adjustable Ventilation Ports)	See Hub Charts*	3	4.75"	MAR-14725-XR-EM	Bass, Bay, and Flats Boats
14 3/4	26	RH	TXP™ (Adjustable Ventilation Ports)	See Hub Charts*	3	4.75"	MAR-14726-XR-EM	Bass, Bay, and Flats Boats
14 3/4	27	RH	TXP™ (Adjustable Ventilation Ports)	See Hub Charts*	3	4.75"	MAR-14727-XR-EM	Bass, Bay, and Flats Boats
14 3/4	28	RH	TXP™ (Adjustable Ventilation Ports)	See Hub Charts*	3	4.75"	MAR-14728-XR-EM	Bass, Bay, and Flats Boats
14 3/4	29	RH	TXP™ (Adjustable Ventilation Ports)	See Hub Charts*	3	4.75"	MAR-14729-XR-EM	Bass, Bay, and Flats Boats
14 3/4	30	RH	TXP™ (Adjustable Ventilation Ports)	See Hub Charts*	3	4.75"	MAR-14730-XR-EM	Bass, Bay, and Flats Boat
14 3/4	31	RH	TXP™ (Adjustable Ventilation Ports)	See Hub Charts*	3	4.75"	MAR-14731-XR-EM	Bass, Bay, and Flats Boats
14 3/4	32	RH	TXP™ (Adjustable Ventilation Ports)	See Hub Charts*	3	4.75"	MAR-14732-XR-EM	Bass, Bay, and Flats Boat
14 3/8	23	RH	TXP™ OT4	See Hub Charts*	4	4.75"	MAR-14423-TR-E0	Bass, Bay, and Flats Boat
143/8	24	RH	TXP™ OT4	See Hub Charts*	4	4.75"	MAR-14424-TR-E0	Bass, Bay, and Flats Boat
143/8	25	RH	TXP™ OT4	See Hub Charts*	4	4.75"	MAR-14425-TR-E0	Bass, Bay, and Flats Boats
143/8	26	RH	TXP™ OT4	See Hub Charts*	4	4.75"	MAR-14426-TR-E0	Bass, Bay, and Flats Boat
143/8	27	RH	TXP™ OT4	See Hub Charts*	4	4.75"	MAR-14427-TR-E0	Bass, Bay, and Flats Boat
143/8	28	RH	TXP™ OT4	See Hub Charts*	4	4.75"	MAR-14428-TR-E0	Bass, Bay, and Flats Boat
14 3/8	29	RH	TXP™ OT4	See Hub Charts*	4	4.75"	MAR-14429-TR-E0	Bass, Bay, and Flats Boat
14 3/8	30	RH	TXP™ OT4	See Hub Charts*	4	4.75"	MAR-14430-TR-E0	Bass, Bay, and Flats Boats
14 3/8	31	RH	TXP™ OT4	See Hub Charts*	4	4.75"	MAR-14431-TR-E0	Bass, Bay, and Flats Boat
14 3/8	32	RH	TXP™ OT4	See Hub Charts*	4	4.75"	MAR-14432-TR-E0	Bass, Bay, and Flats Boat
14 3/8	24	RH	TXP™ OT4 (Adjustable Ventilation Ports)	See Hub Charts*	4	4.75"	MAR-14424-TR-EM	Bass, Bay, and Flats Boat
14 3/8	25	RH	TXP™ OT4 (Adjustable Ventilation Ports)	See Hub Charts*	4	4.75"	MAR-14425-TR-EM	Bass, Bay, and Flats Boat
14 3/8	26	RH	TXP™ OT4 (Adjustable Ventilation Ports)	See Hub Charts*	4	4.75"	MAR-14426-TR-EM	Bass, Bay, and Flats Boat
14 3/8	27	RH	TXP™ OT4 (Adjustable Ventilation Ports)	See Hub Charts*	4	4.75"	MAR-14427-TR-EM	Bass, Bay, and Flats Boat
14 3/8	28	RH	TXP™ OT4 (Adjustable Ventilation Ports)	See Hub Charts*	4	4.75"	MAR-14428-TR-EM	Bass, Bay, and Flats Boat
14 3/8	29	RH	TXP™ OT4 (Adjustable Ventilation Ports)	See Hub Charts*	4	4.75"	MAR-14429-TR-EM	Bass, Bay, and Flats Boat
14 3/8	30	RH	TXP™ OT4 (Adjustable Ventilation Ports)	See Hub Charts*	4	4.75"	MAR-14430-TR-EM	Bass, Bay, and Flats Boat
14 3/8	31	RH	TXP™ OT4 (Adjustable Ventilation Ports)	See Hub Charts*	4	4.75"	MAR-14431-TR-EM	Bass, Bay, and Flats Boat
	32	RH	TXP™ OT4 (Adjustable Ventilation Ports)	See Hub Charts*	4	4.75"	MAR-14432-TR-EM	Bass, Bay, and Flats Boats

^{*} All Turbo propellers "G" series (3.5" gearcase diameter and up require a Guardian SQ-LOK™ hub kit or similar universal hub system. (sold separately) Please see the "Turbo Hub Application Charts" beginning on page 5-37 to determine your required hub.

Rigging Estimate Guide (*Diagrams*)

Rigging Components

Electrical Components

Engine Accessories

llers

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0ils & Lubes

Detailing & Trailer Supplies

Accessories & Apparel

M or T Series Propellers for Yamaha, other Outboards, and Stern Drives Continued...

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
13 3/4	18	RH	Turbo 2+2 OT	See Hub Charts*	4	4.75"	MAR-13418-TR-E0	Bass, Bay, and Flats Boats
13 3/4	20	RH	Turbo 2+2 OT	See Hub Charts*	4	4.75"	MAR-13420-TR-E0	Bass, Bay, and Flats Boats
13 3/4	22	RH	Turbo 2+2 OT	See Hub Charts*	4	4.75"	MAR-13422-TR-E0	Bass, Bay, and Flats Boats
13 3/4	23	RH	Turbo 2+2 OT	See Hub Charts*	4	4.75"	MAR-13423-TR-E0	Bass, Bay, and Flats Boats
13 3/4	24	RH	Turbo 2+2 OT	See Hub Charts*	4	4.75"	MAR-13424-TR-E0	Bass, Bay, and Flats Boats
13 3/4	25	RH	Turbo 2+2 OT	See Hub Charts*	4	4.75"	MAR-13425-TR-E0	Bass, Bay, and Flats Boats
13 3/4	26	RH	Turbo 2+2 OT	See Hub Charts*	4	4.75"	MAR-13426-TR-E0	Bass, Bay, and Flats Boats
14 1/4	13	RH	ULTIMA 4	See Hub Charts*	4	4.75"	MAR-14413-UR-E0	Bass, Bay, Flats, Mediu
14 1/4	13	LH	ULTIMA 4	See Hub Charts*	4	4.75"	MAR-14413-UL-E0	Bass, Bay, Flats, Mediu
14 1/4	15	RH	ULTIMA 4	See Hub Charts*	4	4.75"	MAR-14415-UR-E0	Bass, Bay, Flats, Medic
14 1/4	15	LH	ULTIMA 4	See Hub Charts*	4	4.75"	MAR-14415-UL-E0	Bass, Bay, Flats, Medic
14 1/4	17	RH	ULTIMA 4	See Hub Charts*	4	4.75"	MAR-14417-UR-E0	Bass, Bay, Flats, Medic
14 1/4	17	LH	ULTIMA 4	See Hub Charts*	4	4.75"	MAR-14417-UL-E0	Bass, Bay, Flats, Medio
14 1/4	19	RH	ULTIMA 4	See Hub Charts*	4	4.75"	MAR-14419-UR-E0	Bass, Bay, Flats, Medi
14 1/4	19	LH	ULTIMA 4	See Hub Charts*	4	4.75"	MAR-14419-UL-E0	Bass, Bay, Flats, Medi
14 1/4	21	RH	ULTIMA 4	See Hub Charts*	4	4.75"	MAR-14421-UR-E0	Bass, Bay, Flats, Medi
14 1/4	21	LH	ULTIMA 4	See Hub Charts*	4	4.75"	MAR-14421-UL-E0	Bass, Bay, Flats, Medi
14 1/4	23	RH	ULTIMA 4	See Hub Charts*	4	4.75"	MAR-14423-UR-E0	Bass, Bay, Flats, Medi
14 1/4	23	LH	ULTIMA 4	See Hub Charts*	4	4.75"	MAR-14423-UL-E0	Bass, Bay, Flats, Medi
14 1/2	21	RH	VECTOR	See Hub Charts*	3	4.75"	MAR-14521-VR-E0	Family and Water Spo
14 1/2	21	LH	VECTOR	See Hub Charts*	3	4.75"	MAR-14521-VL-E0	Family and Water Spo
14 1/2	22	RH	VECTOR	See Hub Charts*	3	4.75"	MAR-14522-VR-E0	Family and Water Spo
14 1/2	22	LH	VECTOR	See Hub Charts*	3	4.75"	MAR-14522-VL-E0	Family and Water Spo
14 1/2	23	LH	VECTOR	See Hub Charts*	3	4.75"	MAR-14523-VL-E0	Family and Water Spo
14 1/2	23	RH	VECTOR	See Hub Charts*	3	4.75"	MAR-14523-VR-E0	Family and Water Spo
14 1/2	24	RH	VECTOR	See Hub Charts*	3	4.75"	MAR-14524-VR-E0	Family and Water Spo
14 1/2	24	LH	VECTOR	See Hub Charts*	3	4.75"	MAR-14524-VL-E0	Family and Water Spo
14 1/2	25	RH	VECTOR	See Hub Charts*	3	4.75"	MAR-14525-VR-E0	Family and Water Spo
14 1/2	25	LH	VECTOR	See Hub Charts*	3	4.75"	MAR-14525-VL-E0	Family and Water Spo

^{*} All Turbo propellers "G" series (3.5" gearcase diameter and up require a Guardian SQ-LOK™ hub kit or similar universal hub system. (sold separately) Please see the "Turbo Hub Application Charts" beginning on page 5-37 to determine your required hub.

X Series Propellers for 5.25" Gearcases

Yamaha V8 Outboard Models

X Series Propellers for Yamaha Outboards

Diameter	Pitch	RH/LH	Series	Hub	Blades	Gearcase	Part Number	Recommended Use
16 1/4	17	RH	Saltwater Series XL®	pressed in	3	5.25"	6AW-45970-00-00	Larger Boats
16 1/4	17	LH	Saltwater Series XL	pressed in	3	5.25"	6AX-45970-00-00	Larger Boats
16 1/4	19	RH	Saltwater Series XL	pressed in	3	5.25"	6AW-45972-00-00	Larger Boats
16 1/4	19	LH	Saltwater Series XL	pressed in	3	5.25"	6AX-45972-00-00	Larger Boats
15 1/2	21	RH	Saltwater Series XL	pressed in	3	5.25"	6AW-45974-00-00	Larger Boats
15 1/2	21	LH	Saltwater Series XL	pressed in	3	5.25"	6AX-45974-00-00	Larger Boats
15 1/4	23	RH	Saltwater Series XL	pressed in	3	5.25"	6AW-45976-00-00	Larger Boats
15 1/4	23	LH	Saltwater Series XL	pressed in	3	5.25"	6AX-45976-00-00	Larger Boats
15 1/4	25	RH	Saltwater Series XL	pressed in	3	5.25"	6AW-45978-00-00	Larger Boats
15 1/4	25	LH	Saltwater Series XL	pressed in	3	5.25"	6AX-45978-00-00	Larger Boats
16 1/4	15	RH	Saltwater Series XL - SDS™††	pressed in	3	5.25"	6AW-45970-10-00	Larger Boats
16 1/4	15	LH	Saltwater Series XL - SDS††	pressed in	3	5.25"	6AX-45970-10-00	Larger Boats
16 1/4	17	RH	Saltwater Series XL - SDS††	pressed in	3	5.25"	6AW-45972-10-00	Larger Boats
16 1/4	17	LH	Saltwater Series XL - SDS††	pressed in	3	5.25"	6AX-45972-10-00	Larger Boats
15 1/2	19	RH	Saltwater Series XL - SDS††	pressed in	3	5.25"	6AW-45974-10-00	Larger Boats
15 1/2	19	LH	Saltwater Series XL - SDS††	pressed in	3	5.25"	6AX-45974-10-00	Larger Boats
15 1/4	21	RH	Saltwater Series XL - SDS††	pressed in	3	5.25"	6AW-45976-10-00	Larger Boats
15 1/4	21	LH	Saltwater Series XL - SDS††	pressed in	3	5.25"	6AX-45976-10-00	Larger Boats
15 1/4	23	RH	Saltwater Series XL - SDS††	pressed in	3	5.25"	6AW-45978-10-00	Larger Boats
15 1/4	23	LH	Saltwater Series XL - SDS††	pressed in	3	5.25"	6AX-45978-10-00	Larger Boats
16 1/8	15	RH	Performance XL4™	pressed in	4	5.25"	MAR-GYT4B-V8-15	Larger Boats
16 1/8	15	LH	Performance XL4	pressed in	4	5.25"	MAR-GYT4B-L8-15	Larger Boats
16 1/8	17	RH	Performance XL4	pressed in	4	5.25"	MAR-GYT4B-V8-17	Larger Boats
16 1/8	17	LH	Performance XL4	pressed in	4	5.25"	MAR-GYT4B-L8-17	Larger Boats
15 3/8	22	RH	Performance XL4™-HP	pressed in	4	5.25"	MAR-GYT4B-V8-22	Larger Boats
15 3/8	22	LH	Performance XL4-HP	pressed in	4	5.25"	MAR-GYT4B-L8-22	Larger Boats
15 3/8	24	RH	Performance XL4™-HP	pressed in	4	5.25"	MAR-GYT4B-V8-24	Larger Boats
15 3/8	24	LH	Performance XL4-HP	pressed in	4	5.25"	MAR-GYT4B-L8-24	Larger Boats

††Yamaha SDS propellers require special hardware to operate, which is included with "XA" models.

General Information

Rigging Estimate Guide (*Diagrams*)

Rigging Components

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TRP Propellers for TRP Gearcases

General

Rigging Estimate Guide (*Diagrams)*

Rigging Components

Electrical Components

Engine

Propellers

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Oils & Lubes

Detailing & Trailer Supplies

> Accessories & Apparel

Generators & Accessories

Diameter	Pitch	Series	Fit	Blades	Part Number
14	19	TRP Lower Units	Front	3	MAR-TRP14-19-F3
13	19	TRP Lower Units	Rear	3	MAR-TRP13-19-R3
14	21	TRP Lower Units	Front	3	MAR-TRP14-21-F3
13	21	TRP Lower Units	Rear	3	MAR-TRP13-21-R3
14	25	TRP Lower Units	Front	3	65N-45941-00-00
13	25	TRP Lower Units	Rear	3	65N-45943-00-00

Small Hub Propellers for High Performance Applications

Diameter	Pitch	Series	Fit	Blades	Part Number
14	20	Small Hub	None	3	6E5-45970-10-00
14	22	Small Hub	None	3	6E5-45976-10-00
14	24	Small Hub	None	3	6E5-45972-10-00
14	26	Small Hub	None	3	6E5-45978-10-00
14	28	Small Hub	None	3	6E5-45974-10-00

Hubs for Yamaha Propellers



Hub Application	Engine Horsepower	Part Number
TRP Front Propellers	TRP Lower Units	65N-45981-00-00
TRP Rear Propellers	TRP Lower Units	6G5-45981-00-00
K Series Propellers	(T50~F115, 70~115)	688-45981-00-00
G Series Propellers	(T25~F60, 50)	663-45981-10-00
ALUMINUM 6E5, 688, 6L6, 6G5, 6K1 Propellers	150hp~300hp	6G5-45981-00-00
6D0, 6D1, 68F, 68G Propellers	150hp~300hp	61A-45981-00-00
66K, 6R1, 6R4, 61A, 61B, 69L, 6G5, 6K1 Propellers	150hp~300hp	61A-45981-00-00
Small Hub Propellers	70hp~200hp	6G5-45981-00-00
6J8 and 664 PROPELLERS	F25, 20~30	664-45981-01-00
N Series Propellers	6,8	6G1-45981-00-00
683 Propellers J Series	9.9, 15, F9.9, T9.9	683-45981-10-00
F350 SDS Propellers	V8	6AW-45C80-00-00
F350 Non-SDS Propellers	V8	6AW-45981-00-00
4.2L SDS Propellers	4.2L	6CE-45C81-00-00

Hubs for Turbo Propellers

Guardian SQ-Lok™ Hub System

A square hub is required for proper installation of Turbo® propellers. Turbo proudly recommends the Guardian SQ-Lok™ Hub System. Guardian SQ-Lok™ hubs are designed to take the punishing power and exhaust heat today's modern marine engines deliver. Unlike some other brands, they feature heavy-duty construction and a nylon center core (drive adaptor) with a molded-in interlocking brass spline insert for extra strength and durability. They're easy to install or replace, and come with the necessary hardware to help get you on the water fast. Demand tough. Demand convenient. Demand a Guardian SQ-Lok™ hub system.





MAR-D503H-UB-00

MAR-D504H-UB-00

MAR-D505H-UB-00

Turbo Hub Application Charts

All Turbo propellers "G" series (3.5" gearcase diameter and up require a Guardian SQ-LOK™ hub kit or similar universal hub system. Use the charts below to find the required hub for your application.

			S	terndri ve	Hub Applications
Make / Model	Model Notes	Year(s)	Gearcase Diameter	Splines	Hub Part Number
Mercruiser®	1A, 1B, 1C		4.75"	15	MAR-D501H-UB-00
Mercruiser®	120, 140, 145 DTS		4.75"	15	MAR-D501H-UB-00
Mercruiser®	165, 228, 470, 485, 888, 898		4.75"	15	MAR-D501H-UB-00
Mercruiser®	225S, 233, 255TRS		4.75"	15	MAR-D501H-UB-00
Mercruiser®	260, 280TRS, 330TRS		4.75"	15	MAR-D501H-UB-00
Mercruiser®	120-190 HP	1983-1985	4.75"	15	MAR-D501H-UB-00
Mercruiser®	200-260 HP	1983-1985	4.75"	15	MAR-D501H-UB-00
Alpha One™	2.5L - 5.7L	All Years	4.75"	15	MAR-D501H-UB-00
Alpha One™	6.2L MPI	All Years	4.75"	15	MAR-D501H-UB-00
Alpha One™	262, 350, 354 Magnum	All Years	4.75"	15	MAR-D501H-UB-00
Alpha One™	320 EFI	All Years	4.75"	15	MAR-D501H-UB-00
Alpha One™	D2.8L - D7.3L (Diesel)	All Years	4.75"	15	MAR-D501H-UB-00
Bravo One™	320 EFI, 350, 377	All Years	4.75"	15	MAR-D501H-UB-00
Bravo One™	5.0L - 7.4L	All Years	4.75"	15	MAR-D501H-UB-00
OMC®	3.0 L - 8.2 L (Non SX Drive)	1990-1993	4.75"	15	MAR-D502H-UB-00
OMC® Cobra®	5.8 L	1989-1993	4.75"	15	MAR-D502H-UB-00
Sea Drive®	2.0 L - 4.0 L	All Years	4.75"	15	MAR-D502H-UB-00
OMC® Model 400	2.3 L (120 HP)	~1991	4.25"	13	MAR-D503H-UB-00
OMC® Model 400	2.5 L (120 HP)	1978-1984	4.25"	13	MAR-D503H-UB-00
OMC® Model 400	3.0 L (140 HP)	Thru 1989	4.25"	13	MAR-D503H-UB-00
OMC® Cobra®	2.3 L (128 HP)	1988-1991	4.25"	13	MAR-D503H-UB-00
OMC® Cobra®	2.5 L (120 HP)	1985-1987	4.25"	13	MAR-D503H-UB-00
OMC® Cobra®	3.0 L (140 HP)	1985-1987	4.25"	13	MAR-D503H-UB-00
OMC® SEA DRIVE®	1.6 LV-4	1982~	4.25"	13	MAR-D503H-UB-00
OMC® SEA DRIVE®	1.8 L V-4	1987~	4.25"	13	MAR-D503H-UB-00
SX COBRA™, VOLVO PENTA® SX	3.0 L	1994 & Newer	4.75"	19	MAR-D504H-UB-00
SX COBRA™, VOLVO PENTA® SX	4.3 L	1994 & Newer	4.75"	19	MAR-D504H-UB-00
SX COBRA™, VOLVO PENTA® SX	5.0 L	1994 & Newer	4.75"	19	MAR-D504H-UB-00
SX COBRA™, VOLVO PENTA® SX	5.7 L	1994 & Newer	4.75"	19	MAR-D504H-UB-00
SX COBRA™, VOLVO PENTA® SX	5.8 L	1994-1997	4.75"	19	MAR-D504H-UB-00
SX COBRA™, VOLVO PENTA® SX	7.4L	1997 & Newer	4.75"	19	MAR-D504H-UB-00
SX COBRA™, VOLVO PENTA® SX	8.2 L	1997	4.75"	19	MAR-D504H-UB-00
YAMAHA STERNDRIVES	3.0 L (130 HP) EST/PSR	1989-1993	4.75"	15	MAR-D505H-UB-00
YAMAHA STERNDRIVES	4.3 L (205 HP) EST/PSR/YEMS	1989-1993	4.75"	15	MAR-D505H-UB-00
YAMAHA STERNDRIVES	5.0 L (205 HP) EST/PSR/YEMS	1989-1993	4.75"	15	MAR-D505H-UB-00
YAMAHA STERNDRIVES	5.7 L (260 HP) EST/PSR/YEMS	1989-1993	4.75"	15	MAR-D505H-UB-00
YAMAHA STERNDRIVES	7.4 L (300 HP) EST	1992-1993	4.75"	15	MAR-D505H-UB-00

General Information Rigging Estimate Guide (*Diagrams)* Rigging Components Electrical Components Engine Accessories Maintenance Items Oils & Lubes Detailing & Trailer Supplies

Generators & Accessories

Honda® Hu	b Applications						
Horse Power	Model Notes	Years	Gearcase Diameter	Splines	RPM Range	Gear Ratio	Hub Part Number
35 HP	BF 35	1991-1994	3.5"	13	4600-5600	2.09	MAR-C012H-UB-00
40 HP	BF 40	1995~	3.5"	13	5000-6000	2.09	MAR-C012H-UB-00
45 HP	BF 45	1991-1994	3.5"	13	5000-6000	2.09	MAR-C012H-UB-00
50 HP	BF50/50A	1995~	3.5"	13	5500-6000	2.09	MAR-C012H-UB-00
60 HP	BF 60	2010~	3.5"	13	5000-6000	2.07	MAR-C012H-UB-00
60 HP	BFP 60	2010~	4.25"	15	5000-6000	2.33	MAR-D507H-UB-00
75 HP	BF 75	1995~	4.25"	15	5000-6000	2.33	MAR-D507H-UB-00^^
90 HP	BF 90	1995-2002	4.25"	15	5000-6000	2.33	MAR-D507H-UB-00^^
90 HP	BF 90	2003-2006	4.25"	15	5000-6000	2.30	MAR-D507H-UB-00
90 HP	BF 90	2007~	4.25"	15	5300-6300	2.33	MAR-D507H-UB-00
115 HP	BF 115	1998~	4.25"	15	5000-6000	2.00	MAR-D507H-UB-00
130 HP	BF 130	1998-2004	4.25"	15	5000-6000	2.00	MAR-D507H-UB-00
135 HP	BF 135	2004~	4.25"	15	5000-6000	2.14	MAR-D507H-UB-00
150 HP	BF 150	2004~	4.25"	15	5000-6000	2.14	MAR-D507H-UB-00
200 HP	BF 200	2002~	4.25"	15	5000-6000	1.86	MAR-D507H-UB-00
225 HP	BF 225	2002~	4.25"	15	5000-6000	1.86	MAR-D507H-UB-00

^^ BF75,BF90 (~1998) Use MAR-D501H-UB-00

Mercury® 4-	Stroke Hub Applicatio	ns					
Horse Power	Model Notes	Years	Gearcase Diameter	Splines	RPM Range	Gear Ratio	Hub Part Number
25 HP	4-Stroke/Bigfoot	1999-2005	3.5"	13	5250-5750	2.40	MAR-C011H-UB-00
30 HP	4-Stroke	1999-2005	3.5"	13	5500-6000	2.00	MAR-C011H-UB-00
40 HP	4-Stroke (Not Bigfoot)	1997~	3.5"	13	5500-6000	2.00	MAR-C011H-UB-00
40 HP	4-Stroke / Bigfoot	All Years	3.5"	15			MAR-D501H-UB-00
50 HP	4-Stroke (Not Bigfoot)	1995~	3.5"	13	5500-6000	1.83	MAR-C011H-UB-00
50 HP	4-Stroke / Bigfoot	All Years	4.25"	15	5500-6000	2.33	MAR-D501H-UB-00
60 HP	4-Stroke (Not Bigfoot)	2001~	3.25"	13	5500-6000	1.83	MAR-C011H-UB-00
60 HP	4-Stroke / Bigfoot	1995~	4.25"	15	5500-6000	2.33	MAR-D501H-UB-00
75 HP	4-Stroke	2001~	4.25"	15	4500-5500	2.33	MAR-D501H-UB-00
90 HP	4-Stroke	2001~	4.25"	15	5000-6000	2.33	MAR-D501H-UB-00
115 HP	4-Stroke	2001-2006	4.25"	15	5000-6000	2.07	MAR-D501H-UB-00
115 HP	EFI 4-Stroke	2007~	4.25"	15	5800-6400	2.07	MAR-D501H-UB-00
135 HP	Verado®	2007~	4.75"	15	5200-6400	2.08	MAR-D501H-UB-00
150 HP	Verado®	2006~	4.75"	15	5800-6400	2.08	MAR-D501H-UB-00
175 HP	Verado®	2006~	4.75"	15	5800-6400	2.08	MAR-D501H-UB-00
200 HP	Verado®	2005~	4.75"	15	5800-6400	2.08	MAR-D501H-UB-00
225 HP	Verado®	2005~	4.75"	15	5800-6400	1.85	MAR-D501H-UB-00
250 HP	Verado®	2005~	4.75"	15	5800-6400	1.85	MAR-D501H-UB-00
275 HP	Verado®	2005~	4.75"	15	5800-6400	1.85	MAR-D501H-UB-00

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				l		r e	Hub Applications
Horse Power	Model Notes	Years	Gearcase Diameter	Splines	RPM Range	Gear Ratio	Hub Part Number
30 HP	(SeaPro®/Marathon)	1994~	3.25	13	4500-5500	2.00	MAR-C011H-UB-00
30 HP	2-Stroke	1994-2002	3.25	13	4500-5500	2.00	MAR-C011H-UB-00
35 HP		1984-1989	3.25	13	4500-5500	2.00	MAR-C011H-UB-00
40 HP	(Model 402)	1974-1976	3.25	13	4500-5500	2.00	MAR-C011H-UB-00
40 HP	(SeaPro®/Marathon)	1977~	3.25	13	4500-5500	2.00	MAR-C011H-UB-00
40 HP	2-Stroke (Includes Model 402)	1977~	3.25	13	5000-5500	1.83	MAR-C011H-UB-00
45 HP		1986-1989	3.25	13	5000-5500	1.83	MAR-C011H-UB-00
48 HP	(Mariner®)	All Years	3.25	13	5000-5500	1.83	MAR-C011H-UB-00
50 HP	(Model 500)	1974-1976	3.25	13	5000-5500	1.83	MAR-C011H-UB-00
50 HP	2-Stroke (Includes Model 500)	1977~	3.25	13	5000-5500	1.83	MAR-C011H-UB-00
55 HP	(Mercury®/SeaPro®/Marathon)	1995~	3.25	13	5000-5500	1.83	MAR-C011H-UB-00
60 HP	2-Stroke	1978~	3.25	13	5000-5500	1.64	MAR-C011H-UB-00
60 HP	(SeaPro®/Marathon)	1995~	4.25	15	4500-5500	2.30	MAR-D501H-UB-00
65 HP	(Model 650 - 4 Cyl.)	1961-1970	4.25	15	4500-5500	2.30	MAR-D501H-UB-00
65 HP	(Model 650 - 2 Cyl.)	~1971	4.25	15	4500-5500	2.30	MAR-D501H-UB-00
70 HP	(model obt 2 cyll)	1987-1989	4.25	15	4500-5500	2.30	MAR-D501H-UB-00
70 HP	(Includes Model 700)	~1983	3.25	13	4500-5500	2.30	MAR-C011H-UB-00
75 HP	(SeaPro®/Marathon)	All Years	4.25	15	4750-5250	2.30	MAR-D501H-UB-00
75 HP	OPTIMAX®	All Icais	4.25	15	5000-5750	2.33	MAR-D501H-UB-00
80 HP	(Mariner®)	1978-1983	4.25	15	3000-3730	2.33	MAR-D501H-UB-00
	(Mainter)						
80 HP	2 Charles	1978-1989	4.25	15	5000 F500	2.20	MAR-D501H-UB-00
90 HP	2-Stroke	1989-2004	4.25	15	5000-5500	2.30	MAR-D501H-UB-00
90 HP	OPTIMAX®	2005~	4.25	15	5000-5500	2.33	MAR-D501H-UB-00
100 HP		1988~	4.25	15	4750-5250	2.07	MAR-D501H-UB-00
	Models 900 1150 1500	~1977	4.25	15	4750-5250	2.07	MAR-D501H-UB-00
115 HP		1978-1983	4.25	15	4750-5250	2.07	MAR-D501H-UB-00
115 HP	OPTIMAX®	2007~	4.25	15	5000-5700	2.07	MAR-D501H-UB-00
125 HP		1994-2005	4.25	15	4750-5250	2.07	MAR-D501H-UB-00
135 HP		1987~	4.75	15	5000-5600	2.00	MAR-D501H-UB-00
135 HP	OPTIMAX®	1996~	4.75	15	5250-5750	2.00	MAR-D501H-UB-00
140 HP		All Years	4.25	15			MAR-D501H-UB-00
150 HP		1978~	4.75	15	5000-5600	1.87	MAR-D501H-UB-00
150 HP	OPTIMAX®	2004~	4.75	15	5250-5750	1.87	MAR-D501H-UB-00
175 HP		1978~	4.75	15	5000-5600	1.87	MAR-D501H-UB-00
175 HP	OPTIMAX®	2000~	4.75	15	5250-5750	1.87	MAR-D501H-UB-00
200 HP		1978~	4.75	15	5000-5600	1.87	MAR-D501H-UB-00
200 HP	OPTIMAX®	1998~	4.75	15	5000-5750	1.87	MAR-D501H-UB-00
220 HP		1987-1988	4.75	15	5000-5600	1.87	MAR-D501H-UB-00
225 HP		1980~	4.75	15	5000-5750	1.75	MAR-D501H-UB-00
225 HP	OPTIMAX®	1998~	4.75		5000-5750	1.75	MAR-D501H-UB-00
3.4 Litre		1984-1986	4.75	15	5000-5750	1.75	MAR-D501H-UB-00
250 HP	OPTIMAX®	2007~	4.75		5000-5750	1.75	MAR-D501H-UB-00
275 HP		1990-1994	4.75	15	5000-5750	1.75	MAR-D501H-UB-00
300 HP		1983; 1999~	4.75	15	5000-5750	1.75	MAR-D501H-UB-00
200 111		1703, 1777	رד	دا	3000-3730	1.73	מט-מט-וווטכע אמווי

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Evinrude® / J	Evinrude® / Johnson® 4-Stroke Hub Applications										
Horse Power	Model Notes	Years	Gearcase Diameter	Splines	RPM Range	Gear Ratio	Hub Part Number				
40 HP	4-Stroke	1999-2005	3.5"	13	5200-5800	2.27	MAR-C011H-UB-00				
50 HP	4-Stroke	1999-2005	3.25"	13	5200-5800	2.27	MAR-C011H-UB-00				
60 HP	4-Stroke	1998~	4.25"	13	4700-5300	2.42	MAR-D503H-UB-00				
70 HP	4-Stroke	1998~	4.25"	13	5200-5800	2.42	MAR-D503H-UB-00				
90 HP	4-Stroke	2003~	4.25"	15	4500-5500	2.59	MAR-D509H-UB-00				
115 HP	4-Stroke	2003~	4.25"	15	5000-6000	2.59	MAR-D509H-UB-00				
140 HP	4-Stroke	2003~	4.25"	15	5600-6200	2.38	MAR-D501H-UB-00				
200 HP	4-Stroke	2004-2005	4.75"	15	5000-6000	2.29	MAR-D502H-UB-00				
225 HP	4-Stroke	2004-2005	4.75"	15	5000-6000	2.29	MAR-D502H-UB-00				

Horse Power	Model Notes	Years	Gearcase Diameter	Splines	RPM Range	Gear Ratio	Hub Part Number
40 HP	E-Tec®	2004~	4.25"	13	5500-6000	2.67	MAR-D503H-UB-00
40 HP	2 Cyl	1984-2005	3.38"	13	4500-5500	2.42	MAR-C012H-UB-00
45 HP	2 Cyl. Commercial	1986-1995	4.25"	13			MAR-D503H-UB-00
48 HP		1987~	3.38"	13			MAR-C012H-UB-00
50 HP	2 Cyl	1975-2005	3.38"	13	4500-5500	2.42	MAR-C012H-UB-00
50 HP	2 Cyl. Commercial	1977-1979	4.25"	13			MAR-D503H-UB-00
50 HP	2 Cyl. Pleasure	1971-1974	4.25"	13			MAR-D503H-UB-00
50 HP	3 Cyl. Pleasure	1994-1998	4.25"	13			MAR-D503H-UB-00
50 HP	E-Tec®	2004~	4.25"	13	5500-6000	2.67	MAR-D503H-UB-00
55 HP		1976-1979	3.38"	13			MAR-C012H-UB-00
55 HP	3 Cyl	1968-1969	4.25"	13			MAR-D503H-UB-00
55 HP	2 Cyl. Commercial	1980~	4.25"	13			MAR-D503H-UB-00
55 HP	E-Tec®	2009~	4.25"	13	5500-6000	2.67	MAR-D503H-UB-00
Sprint/Formula E		1986-1992	3.38"	13			MAR-C012H-UB-00
60 HP	3 Cyl. Pleasure	1970-1971	4.25"	13			MAR-D503H-UB-00
60 HP	3 Cyl	1986-2001	4.25"	13			MAR-D503H-UB-00
60 HP	E-Tec®	2004~	4.25"	13	5500-6000	2.67	MAR-D503H-UB-00
65 HP	2 Cyl	1980-1985	3.38"	13			MAR-C012H-UB-00
65 HP	3 Cyl. Pleasure	1972-1973	4.25"	13			MAR-D503H-UB-00
65 HP	3 Cyl. Commercial	1984-2001	4.25"	13			MAR-D503H-UB-00
70 HP	3 Cyl. Commercial	1974-2001	4.25"	13			MAR-D503H-UB-00
75 HP	E-Tec®	2004~	4.25"	13	4500-5500	2.00	MAR-D503H-UB-00
75 HP	3 Cyl	1975-1985	3.38"	13			MAR-C012H-UB-00
75 HP	3 Cyl. Pleasure	1975-1984	4.25"	13			MAR-D503H-UB-00
85 HP	V4	1969-1980	4.25"	13			MAR-D503H-UB-00
85 HP	V4	1991-1995	4.25"	13			MAR-D503H-UB-00
88 HP	V4	1981-1996	4.25"	13			MAR-D503H-UB-00

			Evinrude [®]	' / Johnso	on® 2-Stroke	Hub Applic	ations Continued.
Horse Power	Model Notes	Years	Gearcase Diameter	Splines	RPM Range	Gear Ratio	Hub Part Number
90 HP	V4	1981~	4.25"	13			MAR-D503H-UB-00
90 HP	V6	1995~	4.75"	15			MAR-D502H-UB-00
90 HP	E-Tec® Std. Length	2004~	4.25"	13	4500-5500	2.00 / 2.25	MAR-D503H-UB-00
100 HP	V4	1979-1980	4.25"	13			MAR-D503H-UB-00
100 HP	V4	1989-1993	4.25"	13			MAR-D503H-UB-00
100 HP	V6 Commercial	1984~	4.75"	15			MAR-D502H-UB-00
110 HP	V4	1986-1989	4.25"	13			MAR-D503H-UB-00
112 HP	V4	1994-1996	4.25"	13			MAR-D503H-UB-00
115 HP	E-Tec® (Includes H.O.)	2004~	4.25"	13	4500-5500	2.00 / 2.25	MAR-D503H-UB-00
115 HP	V6	1995~	4.75"	15			MAR-D502H-UB-00
115 HP	V4	1973~	4.25"	13			MAR-D503H-UB-00
120 HP	V4	1986-1994	4.25"	13			MAR-D503H-UB-00
120 HP	V6	1985	4.75"	15			MAR-D502H-UB-00
125 HP	V4	1971-1972	4.25"	13			MAR-D503H-UB-00
130 HP	V6	1995~	4.75"	15			MAR-D502H-UB-00
130 HP	E-Tec®	2004~	4.25"	13	5500-6000	2.00 / 2.25	MAR-D503H-UB-00
135 HP	V4	1973-1976	4.25"	13			MAR-D503H-UB-00
140 HP	V4	1977-1994	4.25"	13			MAR-D503H-UB-00
140 HP	V6	1985	4.75"	15			MAR-D502H-UB-00
140 HP	V6 (25")	1989-1994	4.75"	15			MAR-D502H-UB-00
150 Hp	E-Tec®	2009~	4.75"	15	4850-5850	1.86	MAR-D502H-UB-00
 150 HP	V6	1978~	4.75"	15	4500-5500	1.86	MAR-D502H-UB-00
150 HP	V6 Commercial	1995~	4.75"	15			MAR-D502H-UB-00
155 HP	Commercial	1978~	4.75"	15			MAR-D502H-UB-00
175 Hp	E-Tec®	2008~	4.75"	15	4850-5850	1.86	MAR-D502H-UB-00
 175 HP	V6	1977~	4.75"	15	5300-5800	1.86	MAR-D502H-UB-00
185 HP	V6	1984-1985	4.75"	15			MAR-D502H-UB-00
2.6 Liter	V6	1984-1985	4.75"	15			MAR-D502H-UB-00
3.6 Liter	V6	1986-1987	4.75"	15			MAR-D502H-UB-00
200 HP	V6	1976~	4.75"	15	5000-6000	1.86	MAR-D502H-UB-00
200 Hp	E-Tec®	2006~	4.75"	15	4500-5800	1.86	MAR-D502H-UB-00
225 HP	E-Tec®	2006~	4.75"	15	4500-5800	1.86	MAR-D502H-UB-00
225 HP	E-Tec® H.O.	2009~	4.75"	15	4500-5800	1.71	MAR-D502H-UB-00
225 HP	V6	1986~	4.75"	15	5000-6000	1.86	MAR-D502H-UB-00
235 HP	V6	1978-1985	4.75"	15	5000-6000	1.86	MAR-D502H-UB-00
250 HP	V6	1991~	4.75"	15	5000-6000	1.86	MAR-D502H-UB-00
250 HP	E-Tec®	2006~	4.75"	15	4500-5800	1.85	MAR-D502H-UB-00
250 HP	E-Tec® H.O.	2008~	4.75"	15	4500-6000	1.71	MAR-D502H-UB-00
275 HP	V8	1986-1988	4.75"	15	5000-6000	1.86	MAR-D502H-UB-00
300 HP	V8	1988-1995	4.75"	15	5000-6000	1.86	MAR-D502H-UB-00
300 HP	E-Tec®	2009~	4.75"	15	5000-6000	1.86	MAR-D502H-UB-00

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Suzuki® Hub Applications										
Horse Power	Model Notes	Years	Gearcase Diameter	Splines	RPM Range	Gear Ratio	Hub Part Number			
DT 35C		1987-1989	3.5"	13			MAR-C011H-UB-00			
DT 40		1983-1998	3.5"	13			MAR-C011H-UB-00			
DF 40	4-Stroke	1999-2010	3.5"	13	5200-5800	2.27	MAR-C011H-UB-00			
DF 40A	4-Stroke	2011~	3.5"	13	5000-6000	2.27	MAR-C011H-UB-00			
DT 50		1983-1984	3.5"	13			MAR-C011H-UB-00			
DT 50M		1983-1984	3.5"	13			MAR-C011H-UB-00			
DF 50	4-Stroke	1999-2010	3.5"	13			MAR-C011H-UB-00			
DF 50A	4-Stroke	2011~	3.5"	13			MAR-C011H-UB-00			
DT 55		1985-1997	3.5"	13			MAR-C011H-UB-00			
DT 60		1983-1984	3.5"	13			MAR-C011H-UB-00			
DF 60A	4-Stroke	2010~	3.5"	13	5300-6300	2.27	MAR-C011H-UB-00			
DF 60	4-Stroke	1998-2009	4.25"	13	4700-5300	2.42	MAR-C011H-UB-00			
DT 65		1985-1997	3.5"	13			MAR-C011H-UB-00			
DF 70	4-Stroke	1998-2008	4.25"	13	5200-5800	2.42	MAR-C011H-UB-00			
DF 70A	4-Stroke	2009~	4.25"	15	5000-6000	2.59	MAR-D509H-UB-00			
DT 75		1983-1997	4.25"	13			MAR-D506H-UB-00			
DF 80A	4-Stroke	2009~	4.25"	15	5000-6000	2.59	MAR-D509H-UB-00			
DT 85		1979-2000	4.25"	13			MAR-D506H-UB-00			
DT 90		1989-1997	4.25"	13			MAR-D506H-UB-00			
DF 90	4-Stroke	2001-2008	4.25"	15	4500-5500	2.59	MAR-D509H-UB-00			
DF 90A	4-Stroke	2009~	4.25"	15	5300-6300	2.59	MAR-D509H-UB-00			
DT 100		1989-2000	4.25"	13			MAR-D506H-UB-00			
DF 100	4-Stroke	2009~	4.25"	15			MAR-D509H-UB-00			
DT 115		1981-2001	4.25"	13			MAR-D506H-UB-00			
DF 115	4-Stroke	2001~	4.25"	15	5000-6000	2.59	MAR-D509H-UB-00			
DT 140		1981-2001	4.25"	13			MAR-D506H-UB-00			
DF 140	4-Stroke	2002~	4.25"	15	5600-6200	2.59	MAR-D501H-UB-00			
DT 150		1986-2003	4.75"	15			MAR-D507H-UB-00			
DF 150	4-Stroke	2006~	4.75"	15	5000-6000	2.50	MAR-D507H-UB-00			
DT 175		1987-1992	4.75"	15			MAR-D507H-UB-00			
DF 175	4-Stroke	2006~	4.75"	15	5500-6100	2.50	MAR-D507H-UB-00			
DT 200		1986-2000	4.75"	15			MAR-D507H-UB-00			
DF 200	4-Stroke	2004~	4.75"	15	5000-6000	2.29	MAR-D507H-UB-00			
DT 225		1986-2003	4.75"	15			MAR-D507H-UB-00			
DF 225	4-Stroke	2004~	4.75"	15	5000-6000	2.29	MAR-D507H-UB-00			
DF 250	4-Stroke	2004~	4.75"	15	5500-6100	2.29	MAR-D507H-UB-00			
DF 300	4-Stroke	2007~	4.75"	15	5700-6300	2.08	MAR-D507H-UB-00			

						Force®	Hub Applications
Horse Power	Model Notes	Years	Gearcase Diameter	Splines	RPM Range	Gear Ratio	Hub Part Number
40 HP		1995-1998	3.5"	13			MAR-C011H-UB-00
50 HP		1995-1998	3.5"	13			MAR-C011H-UB-00
70 HP		1991-1995	3.5"	13			MAR-C011H-UB-00
75 HP		1996-1998	3.5"	13			MAR-C011H-UB-00
75 HP		1999~	4.25"	15			MAR-D501H-UB-00
85 HP		1988-1989	4.25"	15			MAR-D501H-UB-00
90 HP	L-Drive	1989-1991	4.25"	15			MAR-D501H-UB-00
90 HP		1995-1996	4.25"	15			MAR-D501H-UB-00
90 HP	L-Drive	1990-1991	4.25"	15			MAR-D501H-UB-00
90 HP		1990-1994	4.25"	15			MAR-D501H-UB-00
120 HP	L-Drive	1989-1991	4.25"	15			MAR-D501H-UB-00
120 HP		1995-1996	4.25"	15			MAR-D501H-UB-00
120 HP	L-Drive	1990-1991	4.25"	15			MAR-D501H-UB-00
120 HP		1990-1994	4.25"	15			MAR-D501H-UB-00
125 HP		1988-1989	4.25"	15			MAR-D501H-UB-00
150 HP		1989-1994	4.25"	15			MAR-D501H-UB-00
150 HP	L-Drive	1991	4.25"	15			MAR-D501H-UB-00
150 HP		1989-1994	4.25"	15			MAR-D501H-UB-00
150 HP	L-Drive	1991	4.25"	15			MAR-D501H-UB-00

Nissan® / Tol	Nissan® / Tohatsu® Hub Applications										
Horse Power	Model Notes	Years	Gearcase Diameter	Splines	RPM Range	Gear Ratio	Hub Part Number				
35 HP	(35B Only)	~1984	3.5"	13			MAR-C013H-UB-00				
40 HP	40D	1984~	3.5"	13	4500-5500	1.85	MAR-C013H-UB-00				
40 HP	TLDI®	2003~	3.5"	13	5150-5850	1.85	MAR-C013H-UB-00				
50 HP	50C	1987-1999	3.5"	13	5000-5700	1.85	MAR-C013H-UB-00				
50 HP	includes TLDI®	2000~	3.5"	13	5150-5850	1.85	MAR-C013H-UB-00				
55 HP		1981-1988	3.5"	13			MAR-C013H-UB-00				
60A		1986-1999	3.5"	13			MAR-C013H-UB-00				
60C	(Large Gearcase)	~1999	4.25"	15			MAR-D505H-UB-00				
70 HP	70A and 70B	1981-1995	3.5"	13			MAR-C013H-UB-00				
70 HP		1992-1997	4.25"	15	4900-5600	2.30	MAR-D505H-UB-00				
70 HP	TLDI®	1998~	4.25"	15	5150-5850	2.30	MAR-D505H-UB-00				
75 HP	TLDI®	2010~	4.25"	15	5150-5850	2.33	MAR-D505H-UB-00				
90 HP		1987-1999	4.25"	15	5000-5500	2.00	MAR-D505H-UB-00				
90 HP	TLDI®	2000-2009	4.25"	15	5150-5850	2.00	MAR-D505H-UB-00				
90 HP	TLDI®	2010~	4.25"	15	5150-5850	2.33	MAR-D505H-UB-00				
115 HP		1992-2002	4.25"	15	5200-5700	2.00	MAR-D505H-UB-00				
115 HP	TLDI®	2003~	4.25"	15	5150-5850	2.00	MAR-D505H-UB-00				
120 HP		1988-2003	4.25"	15	5200-5700	2.00	MAR-D505H-UB-00				
140 HP		1988-2003	4.25"	15	5200-5700	2.00	MAR-D505H-UB-00				

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Horse Power	Model Notes	Years	Gearcase Diameter	Splines	RPM Range	Gear Ratio	Hub Part Number
40 HP	2 Stroke	1984~	3.5"	13	4500-5500	1.85	MAR-C014H-UB-00
48 HP	2 Stroke	1995-2000	3.5"	13	4500-5500	1.85	MAR-C014H-UB-00
50 HP	2 Stroke	1984~	3.5"	13	4500-5500	1.85	MAR-C014H-UB-00
55 HP	2 Stroke	~1995	3.5"	13	4500-5500	1.84	MAR-C014H-UB-00
60 HP	2 Stroke	~1991	3.5"	13	4500-5500	2.33	MAR-C014H-UB-00
60 HP	2 Stroke	1992-2005	4.25"	15	4500-5500	2.00	MAR-D500H-UB-00
70 HP	2 Stroke	2000~	4.25"	15	4500-5500	2.33	MAR-D500H-UB-00
75 HP	2 Stroke	1994-1999	4.25"	15	4500-5500	2.00	MAR-D500H-UB-00
80 HP	2 Stroke	1997	4.25"	15	4500-5500	2.00	MAR-D500H-UB-00
85 HP	2 Stroke	1991-1997	4.25"	15	4500-5500	2.00	MAR-D500H-UB-00
90 HP	2 Stroke	1984~	4.25"	15	4500-5500	2.00	MAR-D500H-UB-00
115 HP	2 Stroke	1984~	4.25"	15	4500-5500	2.00	MAR-D505H-UB-00
130 HP	2 Stroke	1984-2003	4.25"	15	4500-5500	2.00	MAR-D505H-UB-00
150 HP	2 Stroke	1986~	4.75"	15	4500-5500	2.00	MAR-D505H-UB-00
175 HP	2 Stroke	1984~	4.75"	15	4500-5500	1.86	MAR-D505H-UB-00
200 HP	2 Stroke	1984~	4.75"	15	4500-5500	1.86	MAR-D505H-UB-00
220 HP	(Special)	1984-1985	4.75"	15	4500-5500	1.75	MAR-D505H-UB-00
225 HP	2 Stroke	1986~	4.75"	15	4500-5500	1.75	MAR-D505H-UB-00
225 HP	(Excel) 2 Stroke	1987-1988	4.75"	15	4500-5500	1.75	MAR-D505H-UB-0
250 HP	2 Stroke	1990~	4.75"	15	4500-5500	1.75	MAR-D505H-UB-00
2.6L	VMAX® 2 Stroke	2001~	4.75"	15	4500-5500	1.86	MAR-D505H-UB-00
3.3L	VMAX® 2 Stroke	2001~	4.75"	15	4500-5500	1.75	MAR-D505H-UB-00

Yamaha 4-S	Yamaha 4-Stroke Hub Applications						
Horse Power	Model Notes	Years	Gearcase Diameter	Splines	RPM Range	Gear Ratio	Hub Part Number
T25	4-Stroke		3.5"	13	5000-6000		MAR-C014H-UB-00
F30	4-Stroke	2001-2005	3.5"	13	5000-6000	2.00	MAR-C014H-UB-00
F40	4-Stroke	1999~	3.5"	13	5000-6000	2.00	MAR-C014H-UB-00
F50	4-Stroke	1995~	3.5"	13	5000-6000	1.85	MAR-C014H-UB-00
T50	4 Stroke	1996~	4.25"	15	5000-6000	2.33	MAR-D500H-UB-00
F60	4-Stroke	1999~	3.5"	13	5000-6000	1.85	MAR-C014H-UB-00
T60	4-Stroke	1999~	4.25"	15	5000-6000	2.33	MAR-D500H-UB-00
F70	4-Stroke	2010~	4.25"	15	5300-6300	2.33	MAR-D500H-UB-00
F75	4-Stroke	2003~	4.25"	15	5000-6000	2.31	MAR-D500H-UB-00
F80	4-Stroke	1999-2002	4.25"	15	5000-6000	2.31	MAR-D500H-UB-00
F90	4-Stroke	1999~	4.25"	15	5000-6000	2.00	MAR-D500H-UB-00
F100	4-Stroke	1999-2002	4.25"	15	5000-6000	2.31	MAR-D500H-UB-00
F115	4-Stroke	2000~	4.25"	15	5000-6000	2.15	MAR-D505H-UB-00
F150	4-Stroke	2004~	4.75"	15	5000-6000	2	MAR-D505H-UB-00
F200	4-Stroke	2002~	4.75"	15	5000-6000	2	MAR-D505H-UB-00
VF200	V MAX® SHO® 4 Stroke	2010~	4.75"	15	5000-6000	1.75	MAR-D505H-UB-00

	Yamaha 4-Stroke Hub Applications Continue					cations Continued	
Horse Power	Model Notes	Years	Gearcase Diameter	Splines	RPM Range	Gear Ratio	Hub Part Number
F225	4-Stroke	2002~	4.75"	15	5000-6000	2	MAR-D505H-UB-00
VF225	V MAX® SHO® 4 Stroke	2010~	4.75"	15	5000-6000	1.75	MAR-D505H-UB-00
F225	4 Stroke Offshore	2010~	4.75"	15	5000-6000	1.75	MAR-D505H-UB-00
F250	4-Stroke	2002~	4.75"	15	5000-6000	2.00	MAR-D505H-UB-00
F250	4 Stroke Offshore	2010~	4.75"	15	5000-6000	1.75	MAR-D505H-UB-00
VF250	V MAX® SHO® 4 Stroke	2010~	4.75"	15	5000-6000	1.75	MAR-D505H-UB-00
F300	4 Stroke Offshore	2010~	4.75"	15	5000-6000	1.75	MAR-D505H-UB-00

Propellers

Rigging Components

Propeller Hardware Kits



6G5-W4599-00-00

Castle Nut	90171-18M04-00
Cotter Pin	91490-40030-00
Rear Spacer	688-45997-01-00
Washer	92990-18200-00



6H1-W4599-00-00

Castle Nut	90171-16011-00
Cotter Pin	91490-30030-00
Rear Spacer	688-45997-01-00
Washer	90201-17M00-00



6H4-W4599-00-00

Castle Nut	90171-16011-00
Cotter Pin	91490-30030-00
Rear Spacer	670-45997-02-00
Washer	92990-16200-00



66T-W4599-00-00

Bushing	90389-22M01-00
Rear Spacer	66T-45997-00-00
Cotter Pin	91490-30030-00
Castle Nut	90171-16011-00



67F-W4599-00-00

Castle Nut	90171-16011-00
Bushing	90389-25M00-00
Rear Spacer	67F-45997-00-00
Cotter Pin	91490-40030-00



647-W4599-00-00

Propeller Nut	647-45616-02-00
Cotter Pin	91490-30030-00



689-W4599-00-00

Castle Nut	90171-14013-00
Rear Spacer	689-45997-00-00
Cotter Pin	91490-30030-00
Washer	92990-14200-00

4-Stroke Propeller Hardware Kit Application	Kit Part Number
F25	689-W4599-00-00
F30, F40 (00~), F40LA	66T-W4599-00-00
F40 (99)	6H4-W4599-00-00
F50 (01~)	66T-W4599-00-00
F50 (95~00)	6H4-W4599-00-00
T50 (96~00)	6H1-W4599-00-00
T50 (01~)	67F-W4599-00-00
F60 (03~)	66T-W4599-00-00
T60 (03~)	67F-W4599-00-00
F70	67F-W4599-00-00
F75, F90 (03~)	67F-W4599-00-00
F80, F100	67F-W4599-00-00
F115~F250, F250B	6G5-W4599-00-00
F225~F300 4.2L Non SDS	6G5-W4599-00-00
VF200~VF250 (4.2L)	6G5-W4599-00-00

2-Stroke Propeller Hardware Kit Application	Kit Part Number
4, 5 (84~91)	647-W4599-00-00
20,25, C25, CV25, 30, C30, CV30	689-W4599-00-00
40 (84~01), P40, P50, Pro50	6H4-W4599-00-00
C40, C50, C55, CV40, CV55, E48	6H4-W4599-00-00
50	6H4-W4599-00-00
60~90 (~03)	6H1-W4599-00-00
60~90 (04~)	67F-W4599-00-00
C60~C90, E60, P60, E75, P75	6H1-W4599-00-00
CV85, B90	6H1-W4599-00-00
B115	6G5-W4599-00-00
115~250, C115, C150	6G5-W4599-00-00
P115~P200, PX175	6G5-W4599-00-00
S115~S250	6G5-W4599-00-00
D150, DX150, ProV150	6G5-W4599-00-00
SX150~SX250, V150~V225	6G5-W4599-00-00
VX150~VX250	6G5-W4599-00-00
VZ150~VZ300	6G5-W4599-00-00
Z150~Z300	6G5-W4599-00-00

Propeller Accessories

Prop Lock

Helps protect your propeller investment. Easy-to install and cost effective. Does not interfere with operation (i.e., motor can be used with a lock installed). Suitable for use on regular and counter rotating props. Fits 40 ~ 90

MAR-PROPL-CK-01



Propeller Cover

Constructed of 600D, solution-dyed polyester for durability and fade resistance

MAR-PROPB-AG-BK



Prop Wrench

Designed to fit the dimensions of your Yamaha V4 and V6 outboard prop nut. Has a 9/16-inch square opening on the reverse side to open garboard drain plugs.

MAR-PROPW-RN-CH



TRP Front Prop Wrench

Designed to fit both propeller nuts on the D150 and DX150 models. (Not shown)

65N-28161-00-00



Required for installing a SDS propeller on engines with non SDS propellers installed or equiped with non a SDS spacer in the engine crate.

> V8: 6AW-45997-10-00 V6: 6CE-45997-00-00 F150: 6CE-45997-00-00



Two Piece Thrust Washer:

Used in place of a standard thrust washer on most VZ and VF engines.

99999-03848-00

