

Prop Shop

VOL. 2 | EDITION 3 | JULY 2012

Proper Propping 101

When it comes to choosing the propeller that's right for you and your specific



needs, a great place to start is Yamaha's Performance Bulletins. Yamaha publishes these to show specific performance data of various boat and Yamaha outboard combinations and the exact propeller that created those numbers.

Remember, however, that factors such as exact boat model and age, load, bottom paint, canvas, operator ability, operator experience, hull condition, equipment on board, trim position, etc. all affect boat performance and thus the correct propeller choice. Make sure to consult the comments section on each Performance Bulletin and compare the test boat data to your particular situation. If yours is significantly different, adjustments may be required and a different performance level expected.

Check out Yamaha's Performance Bulletins on our website: <http://yamahaoutboards.com/owner-resources/performance-bulletins>. For older bulletins, click the "Show Archive" link in the top left of the page.

What's news?

- Yamaha introduces 3 new propellers
 - V MAX SHO
 - Performance XL4™-HP
 - Performance XT
- We like to hear from you
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Yamaha introduces 3 new propellers



Yamaha has just introduced three new additions to existing propeller families, furthering the breadth and depth of props available through its Endless Propeller Solutions.

➤ Yamaha V MAX SHO® Propellers 24" and 26" pitches now available

High performance for Yamaha's V MAX SHO super high output four stroke outboards.

In our continuing quest to developing the perfect propeller for each outboard and boating application, Yamaha is proud to announce the arrival of two new performance propellers: the **V MAX SHO 24 and 26**. The new propellers have the same style and blade shape as the rest of the vaunted "T1" V MAX Ventless propeller series. These new propellers allow fine tuning of the wide open throttle rpm for peak performance on V MAX SHO powered bass, bay, and flats boat applications. They're perfect for those who want the incredibly high level of performance and quality Yamaha's legendary V MAX propellers provide, but require single-inch increment pitches to properly 'dial in' maximum performance.



Gear Case Size

4.75" (Yamaha "T")

Diameter

14 1/2" ~ 15 1/8" (depending on pitch)

Blades

3

Pitches

23", **24"**, 25", **26"** and 27"

MSRP

See your local Yamaha Marine Dealer

AVAILABLE YAMAHA V MAX SHO (Ventless) PROPELLER MODELS

Description	Yamaha Part #
14 1/2 X 23 RH	6CB-45974-00-00
NEW 15 1/8 X 24 RH	6CB-45930-10-00
15 1/8 X 25 RH	6CB-45972-00-00
NEW 15 1/8 X 26 RH	6CB-45978-10-00
15 1/8 X 27 RH	6CB-45970-00-00
14 3/4 X 29 RH	6CB-45976-00-00

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Yamaha's Prop Shop

➤ Yamaha V MAX SHO® Propellers | 24" and 26" pitches now available | continued

- **Advanced Design** — Ventless: purpose-built explicitly for Yamaha's game-changing V MAX SHO four stroke outboard.**
- **Fast** — Large 15 1/8" diameter, three blade design allows high engine mounting heights for maximum speed while maintaining "grip", increasing application flexibility.
- **Ideal Pitch** — One inch pitch increments means near-custom propeller performance for a wide variety of applications.
- **Tournament Tough** — Outstanding durability and overall performance even at tournament loads, when propellers typically work their hardest.
- **Awesome Lift** — Promotes high performance, handling, and minimal bow rise at hole shot.
- **Straighter Tracking** — Works with Yamaha V MAX SHO outboard's unique curved skeg design, helping eliminate steering torque.
- **Easy Installation** — Fits all Yamaha V MAX SHO® outboards.
- **Wide Availability** — Available at over 2000 independent Yamaha Marine dealers nationwide.



****NOTE:** The Yamaha V MAX SHO four stroke outboard may utilize either style of V MAX propeller; V MAX Vented or V MAX SHO Ventless. For two stroke outboards, including V MAX HPDI® and V MAX Series 2, only V MAX Vented Series propellers should be used.

V MAX SHO® propellers from Yamaha are manufactured in Indianapolis, Indiana, by Precision Propeller Industries, Inc. (a wholly-owned subsidiary of Yamaha).

➤ Performance XL4™ -HP 22" propeller

High performance four-blade for Yamaha's 5.3L V8 outboards.

Combining four-blade benefits with true high performance, Yamaha is excited to introduce its newest four-bladed propeller specifically for the world's first and only 5.3L F350 V8 outboard, the **Performance XL4-HP 22**. Like its XL4-HP 24 brother, it's designed for (relatively) lighter, high-performance multi-engine offshore boats that often carry heavier loads, such as open fishing-style hulls. Featuring massive thrust to plane and additional 'grip' compared to nearly all three-bladed propellers, the new Performance XL4-HP 22 propeller offers outstanding acceleration and quick planing, while helping to maintain plane at lower speeds and to eliminate ventilation, particularly in turns and following seas. They're highly polished, and available in both right- and left-hand rotation.



Gear Case Size

5.25" (Yamaha "X")

Diameter

15 3/8"

Blades

4

Pitches

22" and 24"

MSRP

See your local Yamaha Marine Dealer

AVAILABLE YAMAHA PERFORMANCE XL4-HP PROPELLER MODELS

Description	Yamaha Part #
NEW 15 3/8 x 22 x 4 RH	MAR-GYT4B-V8-22
NEW 15 3/8 x 22 x 4 LH	MAR-GYT4B-L8-22
15 3/8 x 24 x 4 RH	MAR-GYT4B-V8-24
15 3/8 x 24 x 4 LH	MAR-GYT4B-L8-24

- **Four Blades** — Offers four blade benefits like improved "grip" and reduced ventilation.
- **Load Carrying Ability** — Better acceleration and load carrying ability than nearly all three bladed propellers on similar hulls.
- **Fuel Efficient** — Improved planing at lower engine speeds means similar mid-range performance at reduced throttle settings, offering potentially greater fuel economy.
- **Awesome Lift** — Improved overall boat lift means better performance, handling, and minimal bow rise.
- **Top Speed** — Large 15 3/8" diameter and progressive blade geometry allows high engine mounting heights for strong top speeds even with heavy loads.
- **Tournament Tough** — Outstanding durability and overall performance even at tournament loads, when propellers typically work their hardest.

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Yamaha's Prop Shop



➤ Performance XL4™-HP 22" propeller | continued

- **Tournament Tough** — Outstanding durability and overall performance even at tournament loads, when propellers typically work their hardest.
- **Proven Performance** — Joins the Performance XL4-HP family of Yamaha propellers, proven to provide outstanding performance with these remarkable outboards.
- **Reduced Fatigue** — Counter rotating propeller means less steering torque, decreased steering component strain, and reduced driver fatigue.
- **Easy Installation** — Fits all Yamaha 5.3L V8 outboards.
- **Wide Availability** — Available at over 2000 independent Yamaha Marine dealers nationwide.

Performance XL4™ and XL4™-HP propellers from Yamaha are manufactured in Indianapolis, Indiana, by Precision Propeller Industries, Inc. (a wholly-owned subsidiary of Yamaha).

➤ Yamaha Performance XL propeller is now the Performance XT propeller

High performance for Yamaha's large V6 outboards.

In order to stem any possible confusion with the Saltwater Series XL series of props, which are exclusively for Yamaha's F350 four stroke V8 outboard, the current Performance XL series of V6 propellers will from this point forward be known as **Performance XT** propellers.

Ideal for applications using Yamaha V6 outboards on older, heavier bass, bay, and flats boats, Performance XT propellers represent a step up from Yamaha's long-established and widely-used Pro Series of propellers. They're specifically designed with larger, longer blades with a thicker blade root area for incredible strength and improved performance. Due to the large amount of bow lift their thicker, specially-shaped blades can create, Performance XT propellers are an excellent choice for older, heavier performance hulls, such as earlier-model bass boats. They're also great for applications requiring high engine mounting heights, such as boats with jackplates.

Performance XT props will continue to be available in 23", 25", and 27" pitches, right-hand rotation only.



Gear Case Size

4.75" (Yamaha "T")

Diameter

14 5/8"

Blades

3

Pitches

23", 25" and 27"

MSRP

See your local Yamaha Marine Dealer

AVAILABLE YAMAHA PERFORMANCE XT PROPELLER MODELS

Description	Yamaha Part #
14 5/8 x 23 x 3 RH	MAR-GYT3B-XL-23
14 5/8 x 25 x 3 RH	MAR-GYT3B-XL-25
14 5/8 x 27 x 3 RH	MAR-GYT3B-XL-27

- **High Performance** — Long, specially-contoured blades allow high engine mounting heights for strong top speeds even with heavy loads.
- **Strength** — Better acceleration and load carrying capabilities; perfect for older, heavier hull designs.
- **Awesome Lift** — Improved bow lift means improved performance and handling.
- **Tournament Tough** — Outstanding durability and overall performance even at tournament loads, when propellers typically work their hardest.
- **Easy Installation** — Fits all Yamaha V6 outboards.
- **Wide Availability** — Available at over 2000 independent Yamaha Marine dealers nationwide.

Performance XT propellers from Yamaha are manufactured in Indianapolis, Indiana, by Precision Propeller Industries, Inc. (a wholly-owned subsidiary of Yamaha).

Yamaha's Prop Shop

We want to hear from you



We'd like your feedback. Yamaha has been circulating *Prop Shop* for over a year now, and we hope that you've found much of it valuable and entertaining. We've discussed everything from new and updated products to the launch and continuation of Yamaha's Endless Propeller Solutions; general propeller information, from maintenance and care to how to install a universal hub system; as well as answered common propeller-related questions to sharing numerous unique propeller applications we've found. Through it all, we've endeavored to make the world of propellers less intimidating and to share useful information in an easy-to-read manner.

Now, you can help tailor the information to your particular need. If you have an idea for an article or a subject you'd like to see covered in an upcoming edition of *Prop Shop*, feel free to drop us a line on Yamaha's Facebook® page, and make sure you mention *Prop Shop* by name. We'd love to hear from you!

➤ Unusual application of the month

Turbo Lightning Propeller and Tri-Log Pontoon Boats

Pontoon boats are growing in both size and popularity. Some of this has to do with the advent of high-performance, tri-log pontoons. Designed for higher speeds and more precise handling than their predecessors, many of these new boats are equipped with outboard V6 power. This unique combination can, at times, present a propping challenge, but we offer more than a few solutions.



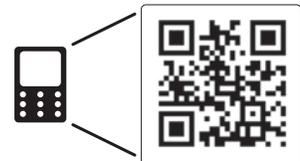
One possible propping solution is Yamaha's Lightning propeller from Turbo. It's a high-performance prop that features both a large diameter and specially-shaped, high-strength blades. It's known for generating awesome bow lift, and it's available in single-inch pitches between 17" and 27" (except 18"), which means precise adjustments in engine speed and boat performance are possible right out of the box. And, since Lightning propellers are Turbo brand, they fit virtually any V6 outboard brand on the market by installing the correct Guardian SQ-Lok™ universal hub system (sold separately).

Give one a try. You most likely will be amazed at the performance!



If you'd like more information about which Yamaha propeller is right for your needs, contact your local authorized Yamaha Marine Dealer at yamaha-motor.com/outboard/dealers/dealerhome/home.aspx

For short videos on Yamaha propellers; including proper installation, maintenance, and more; scan this symbol using your smart phone or tablet.



Message and data rates may apply. May not be available on all devices.

Also, please join us on Facebook at facebook.com/yamahaoutboards. We'll be happy to help you get pointed in the right direction.

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