



# Maintenance **MATTERS**

A Simple Guide For The Longevity Of Your Outboard



Volume 2



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# Why MAINTENANCE?



Regular maintenance is critical for the continued proper operation of any engine, and your Yamaha outboard lives in one of the harshest environments imaginable. High load, high-RPM operation, extreme temperatures, high moisture, even periods of non-use all take a toll on your outboard.

Following simple maintenance procedures and intervals using recommended products will help add value and longevity to your Yamaha outboard.

- **It's easier to maintain than fix.** Following simple maintenance procedures on a regular basis helps ensure proper operation and maintains the value of your Yamaha outboard.
- **Your boat's ready when you are.** Regular maintenance helps make sure your boat's ready at a moment's notice.
- **Nobody wants a boating hassle.** Spending a relatively small amount of time making sure your outboard's in proper condition means hours of trouble-free enjoyment.
- **Yamaha dealers stand ready to help.** Your authorized Yamaha Marine Dealer can assist you with proper maintenance of your Yamaha outboard. From regular maintenance to installation of parts and accessories, they have the tools and the training to do the job right. And they feature Genuine Yamaha maintenance and care products. That's important.
- **Yamaha website.** For additional information and a complete list of Genuine Yamaha maintenance, care, and accessory products, please visit [YamahaOutboards.com](http://YamahaOutboards.com).

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**Why is using Genuine Yamaha maintenance and care products important?** Using the proper maintenance products is as important as proper maintenance itself. That's why Yamaha offers a full line of genuine maintenance and care products. They're all specifically designed and manufactured to help maintain the performance and value of your Yamaha outboard for many years to come. It's all about your satisfaction.



- **Factory-approved products versus generic.** The same engineers who designed your outboard test and approve Yamalube® products, so you know they're right for the job.
- **Engineered to work better.** Yamaha formulates its products to meet the specific needs of your outboard. Aftermarket product manufacturers use a "one size fits all" approach that may not fully protect your Yamaha outboard.
- **Helps protect your investment.** Yamaha is concerned with making your outboard last. Whether you choose to do the work or your have your authorized Yamaha Marine Dealer do it, insist on Genuine Yamaha maintenance and care products in order to receive the most performance and value from your Yamaha outboard.
- **Use the right tools for the job.** Using Genuine Yamaha maintenance and care products means never having to guess if your investment is adequately or properly protected. That's powerful peace of mind.



Note: All the items in this catalog are available through your local authorized Yamaha Marine Dealer. More information can be found at [YamahaOutboards.com](http://YamahaOutboards.com).

# Let's Get STARTED

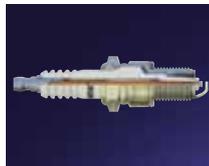


Your checklist begins here. Using Yamaha maintenance and care products is important. So is following Yamaha-recommended maintenance intervals for your particular Yamaha outboard.

The chart below provides an overview of the general maintenance requirements of your outboard.



	REPLACEMENT SCHEDULE				
	Two Stroke	Four Stroke Continuous Use	First 10 Hours (New Engine)	Every 3-6 Months or 50-100 Hours	Annually or 200 Hours
YAMALUBE® 4M FC-W®				●	
YAMALUBE® 2M TC-W3®					
YAMAHA 10-MICRON FUEL/WATER SEPARATING FILTER				●	
YAMAHA ON-ENGINE FUEL FILTERS*				●	
YAMALUBE® RING FREE FUEL ADDITIVE					
YAMALUBE® FUEL STABILIZER & CONDITIONER					
NGK® SPARK PLUGS*				●	
YAMALUBE® GEARCASE LUBE				●	
YAMAHA OIL FILTER					
YAMAHA IMPELLER/WATER PUMP ASSEMBLY					
YAMALUBE® POWER TRIM & TILT FLUID					
YAMALUBE® YAMASHIELD™					
YAMALUBE® BATTERY CLEANER AND PROTECTOR					
YAMALUBE® STOR-RITE FOGGING OIL					



\* Clean (if applicable) or replace

● Please refer to your Owner's Manual or consult with your authorized Yamaha Marine Dealer for specific requirements of your engine.

Finding the right products just got easier. All Genuine Yamaha maintenance and care products now carry the trusted Yamalube® name. To make selecting the right



products a snap, our Yamalube line features new, color-coded labels. All Yamalube products are available at your authorized Yamaha

Marine Dealer, along with information on keeping your outboard in tip-top shape. Ask your dealer or visit [YamahaOutboards.com](http://YamahaOutboards.com) for more details.



● **Service Interval Reminders.** Yamaha provides recommended service intervals so you know when to service your outboard.

● **Engine Hour Meter.** Yamaha offers engine hour meters to help ensure proper maintenance intervals are followed. Easy to install, they track engine operating hours so you know when it's time for maintenance. Our Command Link® gauges even feature built-in service interval reminders.



● **You can do it.** Want to know how to do it yourself? What to do? When to do it? What you'll need? Yamaha offers a wealth of information on its website at [YamahaOutboards.com](http://YamahaOutboards.com). From maintenance and care products, to service manuals and owner's manuals, to a detailed graphic parts look-up program, you'll find the information to do the job right. Not a do-it-yourselfer? Your authorized Yamaha Marine Dealer always stands ready to help with the products, tools and training to keep you ready to run.

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# Let's Begin with CHOOSING THE OIL



**Check your oil.** You've heard the expression "choose wisely."

Never has this applied more than to the products you choose to service, maintain and care for your Yamaha outboard. And the oil and filters you use are perhaps most important of all.

- **Why Yamalube®?** Your Yamaha outboard is vastly different from your automotive engine, and it operates in one of the harshest environments imaginable. Yamalube provides specific protection other oils don't, using a proprietary blend of anti-wear additives, shear-stable polymers, corrosion inhibitors, detergents, dispersants and viscosity index improvers. Yamalube is far superior to automotive engine oils in its strength of protection, durability and corrosion resistance.
- **Why Genuine Yamaha oil filters?** Yamaha oil filters are manufactured specifically to protect Yamaha engines, and use only the finest components available. From the quality of the materials used to their high-quality construction, they simply out-perform aftermarket alternatives.
- **Why FC-W® and TC-W3® oils?** Whatever oil you choose, make sure it is the correct type and viscosity and that it carries either the FC-W® (four stroke) or TC-W3® (two stroke) label. These marks indicate oil that meets the minimum standards of the National Marine Manufacturer's Association (NMMA®) for marine engines.



**YAMAHA**

**COMPETITOR**

O-ring seal

Tall filter element

Special non-paper filter media

Full filtration bottom

Thick outer can

Rectangular seal

Short filter element

Paper filter media

Metal bottom

Metal bottom spacer

Thin outer can

**Importance of regular oil changes.** Using the correct oil and filter at the recommended time is the single most important thing you can do for your outboard.

- **Yamalube® 4M FC-W®** has been reformulated to better protect your investment from the harsh effects of cold starts, hours of trolling and high-load, high-speed operation, with special anti-corrosive additives particularly suited for the harsh marine environment. Available in 10W-30 or 20W-40 weight. See [YamahaOutboards.com](http://YamahaOutboards.com) for more details.
- **Yamalube® 2M TC-W3®** Yamaha-formulated and NMMA®-approved, it provides outstanding protection for two stroke outboards with its special blend of additives that help combat ring stick, corrosion, varnish and wear.
- **Ratio Rite®** Yamaha two stroke outboards 25hp and down are precision-manufactured to require a 100:1 pre-mix of gasoline and oil. A Ratio Rite® cup will help you measure just the right amount needed for proper operation.



# Keeping Your Machine Clean

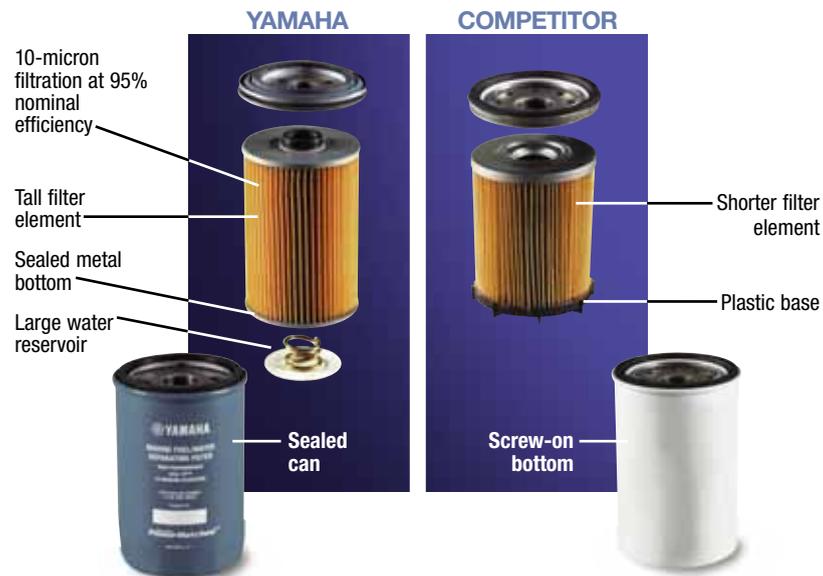
## FUEL & FUEL SYSTEM

 **Check your fuel system.** Regular maintenance is necessary to help keep your fuel system in peak condition. From hoses and connections to proper filtration and even fuel additives, time spent maintaining your fuel system helps keep you safe and your boat ready for action.

- **Ethanol concerns.** Ethanol in today's fuel is a powerful solvent that can loosen debris and cause clogging. It also readily attracts water. Your best line of defense? A Yamaha 10-micron fuel/water separating filter. It traps impurities down to 10 microns in size (1/20<sup>th</sup> of the diameter of a human hair), helps remove water from your fuel system and is easy to install and replace.
- **On-engine fuel filtration.** Your Yamaha outboard has a system of fuel filters on the engine, as well. It's important to know the location of these filters and to clean or replace them at the recommended intervals. You can find this information in your service manual or through your authorized Yamaha Marine Dealer.



- **Fuel system components.** It's important to check the condition of the fuel hoses and connections for any signs of leaks or cracking each time you use your boat. You should also check your primer bulb. If the bulb does not become firm when squeezed prior to starting the engine, replace it.
- **Yamaha 10-micron filters.** They're designed to protect all outboard engines using high quality materials and construction standards. Nothing's better at helping protect your outboard's fuel system.



- **Fuel Conditioner and Stabilizer.** It helps protect against the damaging effects of ethanol in today's fuel. It's inexpensive and simple to use, and since fuel can begin to deteriorate in as little as 30 days, it can help prevent expensive repair bills.
- **Ring Free.** Use it in every tank to help keep your outboard carbon-free. Carbon build-up is one of your outboard's worst enemies, causing poor performance and even catastrophic damage.
- **Yamaha Internal Engine Cleaner.** Haven't had your outboard de-carbonized? This dealer-applied product is the strongest and most effective way to clean out carbon build-up from the inside of your outboard. Once done, be sure to use Ring Free regularly to help keep it that way.
- **Carburetor Cleaner Dip.** Today's leaner carburetors have very small passages that can clog with gum and varnish. Use full strength, or diluted using warm, soapy water, to help clean them up.
- **Primer Bulbs.** Priming your Yamaha outboard's fuel system is vital for proper cold-engine starting. Yamaha offers primer bulbs of the highest quality for maximum reliability.
- **Gas Cans.** Features a "Spill-Proof Spout" which shuts off automatically when the tank reaches capacity. Complies with C.A.R.B. requirements.



Note: All the items in this catalog are available through your local authorized Yamaha Marine Dealer. More information can be found at [YamahaOutboards.com](http://YamahaOutboards.com).

# Lower Unit and POWER TRIM & TILT

 **Check your lower unit.** Your outboard's lower unit is a vital component in its overall performance. Simple maintenance procedures, regularly performed, mean hours of enjoyment and increased value.

- **Check it out.** Regularly inspect your lower unit, and periodically remove the prop and apply marine grease to the prop shaft. If you notice any entanglement around the propeller shaft, remove the lower drain plug and check the color of the lubricant. If it is white or milky in appearance, water has entered your gearcase. Your lower unit should be disassembled and inspected, and its seals should be replaced before using your outboard again.



- **Change the gear lube.** The extreme pressures exerted inside any outboard's lower unit will eventually break down the lubricant's effectiveness. Using Yamalube® Gearcase Lube (Gearcase Lube HD for V8 models) according to the schedule in your owner's or service manual is one of the best ways to protect your investment. It's easy to change the lubricant yourself, or you can have your dealer do it. If you do it yourself, make sure you also replace the vent and drain screw seals each time.



 **Check your Power Trim & Tilt.** From hole shot all the way up through wide-open throttle operation, it adjusts the thrust angle of the outboard for maximum performance. Simple checks on your PT&T unit will help keep it operating at peak efficiency.

- **Say what?** The PT&T unit is electro-hydraulic, meaning an electric pump moves hydraulic fluid, which moves the outboard. It's a very simple, reliable system that under normal conditions needs only minimal maintenance.

- **Check the rams.** Periodically lubricate the tops of the rams and their contact points using Yamalube® Marine Grease. It's specially formulated to withstand extreme pressures and resist corrosion and "wash-away," even in saltwater environments. Also, the trim and tilt rams should be free of corrosion and show no signs of fluid leaks. If leaking is present (which usually causes the outboard to return to the "down" position by itself over time), have your authorized Yamaha Marine Dealer check the system.



- **Top it off.** Periodically check the fluid level in the PT&T unit, and if low, top it off using Yamalube Performance Power Trim & Tilt Fluid. Non-foaming, it resists the intense heat and pressures found in PT&T systems to provide smooth operation and reduced wear. It's also excellent for use in marine power steering systems.



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# Take Charge of Your ELECTRICAL SYSTEM

 **Verify your volts.** The marine environment is tough on your electrical system, and it's one of the most important. Make sure it's up to the task by using Genuine Yamalube® maintenance and care products and Yamaha-recommended components.

- **Don't forget the battery.** Make sure to use the right size and type recommended in your owner's or service manual (see chart for general specifications) and that all battery/cable connections use self-locking nuts (not old-fashioned wing nuts). Also consider adding one or more "house batteries" to power accessories. Most large Yamaha outboards (150hp and up) have separate battery isolator/charging leads specifically for this purpose.



• **We've got the goods.**

Yamaha offers a complete range of electrical system care products for the life of your electrical system. Original-equipment NGK® spark plugs. Yamalube® Yamashield™ Protectant and Lubricant. Yamalube® Battery Terminal Cleaner and Protector. Even Yamalube® Contact Cleaner.

Recommended Battery Specifications			
ENGINE SIZE	MINIMUM BATTERY SPECIFICATIONS		
Engine Type/Horsepower	Cold Cranking AMPS (CCA) @ 0°F	Marine Cranking AMPS (MCA) @ 32°F	Reserve Capacity (RC) Minutes @ 25 AMPS
2 Stroke 50 hp and below	245	323	52
2 Stroke 60 ~ 150	380	502	124
2 Stroke 2.6L 150 ~ 200 EFI	380	502	124
2 Stroke 3.1L 200 ~ 250 EFI 2 Stroke 150 ~ 300 HPDI	512	675	182
4 Stroke F25 and below	245	323	52
4 Stroke F30 ~ F115	380	502	124
4 Stroke F150 ~ F250	512	675	182
4 Stroke 5.3L V8	750	950	182

# The Perfect Prop for Your BOATING STYLE

 **Check your propeller.** Horsepower does you no good if you can't get it to the water effectively. You need a propeller designed specifically to work with your Yamaha outboard.

You need a Yamaha propeller.

- **Yamaha offers a full range of propellers.** They're designed to help you get the most from your Yamaha outboard. Large offshore props. High-speed props. Polished stainless steel props. Painted stainless steel props. High Thrust™ props. And cost-effective, lightweight aluminum props.
- **Tips on proper propping.** Correct propping depends on your specific application, but a general rule is that your Yamaha outboard should run at, or very near, its maximum-allowed RPM at wide-open throttle with an average-to-full load.



- **Pick the right prop.** The correct style of Yamaha propeller is vital to the proper operation of your boat. Make sure you have the one that best suits your type and style of boating. YamahaOutboards.com and your authorized Yamaha Marine Dealer can help.

- **Props need love too.** Keep your prop in good condition and periodically remove it to check for fishing line. While you're there, grease the prop shaft with Yamalube® Marine Grease before re-installing the prop.

- **Take a walk on our website.** Additional information about Yamaha propellers, as well as over 1,300 Performance Bulletins on actual boat and outboard combinations, is available at YamahaOutboards.com.



# Baby Your Baby EXTERNAL CARE



**Check your look.** Show off your investment and help maintain its value with Genuine Yamalube® care products.

Yamaha offers a complete line of no-compromise, high-quality Yamalube products formulated to protect and preserve your baby.



- **Yamalube External Engine Cleaner.** Your engine's well cared for on the inside, right? Keep the outside looking clean and sharp, too!

- **Yamalube Spray Polish and Instant Detailer.** Quickly restores a lustrous shine to paint, chrome, glass and smooth plastic surfaces. Anti-static properties repel dust.



- **Yamalube Silicon Spray Protectant.** Conditions and protects neoprene, rubber, and other surfaces from environmental effects. Helps protect metals from rust and corrosion.

- **Yamalube Yamaclean.** Effectively cleans most boat and outboard surfaces of dirt, oil, grime and insects.

- **Yamalube Hand Cleaner.**

Now that your boat and outboard are all cleaned up, the captain should be too! Environmentally friendly, it removes all types of dirt, grease and grime and leaves your hands with a smooth, clean feeling.



- **Genuine Yamaha Engine Covers.** Protect your engine when not in use. Made of only the finest, most durable materials, with a precise fit.



**Check it out.** Make sure you have a safe and enjoyable day on the water by giving your entire boat a “once over” each time you take it out or return to port. In most instances, this is nothing more than a simple checklist and visual inspection to make sure you're ready for maximum safety and enjoyment.

- **Check the bottom of the boat.** Also check the sacrificial anodes (replace these if over 50% of the material is gone).
- **Check the electricals.** Verify tight connections on all batteries and that bilge pumps and navigation lights are all operative.
- **Check the safety equipment.** Are there life jackets of the correct type available for all aboard? What about other safety equipment such as a flashlight, EPIRB, first aid kit and the boat's horn or other signaling device?



- **Check the engine oil and all fuel lines.** They should be tight and proper. Also, make sure you have sufficient oil (including extra) on board.
- **Check the on-board maintenance supplies.** Do you have a metric tool kit? Spare spark plugs and a wrench? Got spare wire, connectors and crimping pliers? Spare fuel filters, a spare prop and a prop wrench? High-quality versions of all these items can be found at [YamahaOutboards.com](http://YamahaOutboards.com).
- **Don't forget to flush.** Make sure you have and use the correct flushing attachment upon your return. You can find these on our website and obtain them through your authorized Yamaha Marine Dealer.

# Now's the Time to Think About EXTENDED STORAGE

 **Time for a checkup.** Preparing for extended storage efficiently and effectively (the first time) means you'll have a worry-free experience when you return to using your Yamaha outboard. This is not the time to compromise or settle for lesser-quality products. You want Genuine Yamaha.

- **Fog it down.** Fogging oil helps protect vital internal engine components during periods of inactivity by coating them with a thick petroleum-based lubricant. This prevents rust and corrosion from forming on them, and protects them during start-up when the outboard is returned to service. An excellent choice is Yamalube® Stor-Rite Engine Fogging Oil, and it's easy to apply.
- **Keep it dry.** Water can form in the fuel system during extended storage periods due to natural convective condensation. In addition, ethanol fuels can draw water directly from the atmosphere through the tank's vent. Make sure to run Yamalube® Fuel Stabilizer and Conditioner through the entire fuel system prior to shut down, and always store with the tank nearly full of fuel to help prevent over-accumulation of condensation. If it's stored outside, make sure to lower the engine fully or place a tightly-sealed plastic bag over the lower unit to help keep out moisture. Never plug or cap the fuel tank vent, as this allows for natural expansion and contraction within the fuel system.



 • **Check it out.** Just prior to extended lay-up is an excellent time to perform routine annual maintenance, and to take care of any outstanding service issues. Is it time to install a new high-quality Yamaha water pump? Have you been meaning to install a new Yamaha depth finder or radio system? Now is the time to schedule or perform this work. All these items are featured at [YamahaOutboards.com](http://YamahaOutboards.com) and available through your local authorized Yamaha Marine Dealer.

- **Get it ready.** Rather than wait for next season, take the time now to check the anchor, chains, dock lines, fenders, etc. Replace any worn or damaged items now so you'll be ready to hit the water when it's time. Also check the boat for any loose items that need repair. Many of these items can easily be fixed using one of our exclusive Yamalube® Yamabond® formulas, available through your authorized Yamaha Marine Dealer.
- **Trailers and lifts.** Take the time to check your trailer bunks or your lift straps. Any loose, sagging or rotted bunks, straps or rollers should be replaced. Check trailer wheel bearings for signs of water intrusion and repair as necessary. Grease trailer bearings and lift roller assemblies using Yamalube® Marine Grease and a Yamalube® Marine Grease Gun. Its high-pressure, corrosion-resistant formula is great for these areas. Yamalube® Yamashield™ is an excellent choice for lubricating winch cables, and Yamalube® Brake and Contact Cleaner will help clean and restore proper taillight and dock light connections, while helping keep your trailer's brakes clean, too (if applicable).



# Let's Talk About Accessorizing YOUR BOAT

 **Check your accessories.** Just visit [YamahaOutboards.com](http://YamahaOutboards.com). From matching dock ropes, fenders and PFDs to first aid kits, radios and more, you'll find everything you need for complete fun in the sun. There's even Yamaha clothing to get the whole family looking Yamaha-sharp.



Check out the complete line of cool Yamaha accessories at [YamahaOutboards.com](http://YamahaOutboards.com).

With all this going for you, you're sure to be spending day after quality day looking stylish while enjoying the reliability and value of your Yamaha outboard.



# Capacities and Specifications (CURRENT ENGINES ONLY)

## Four Stroke & Jet Drive Outboards

Four Stroke

Jet Drive

OUTBOARD	Yamalube® 4M FC-W®	Oil Capacity w/ Filter	Oil Filter Part #	Yamalube® 2M TC-WG®	Primary On-Engine Fuel Filter Element ***	External Fuel / Water Separating Filter	Spark Plug #	Lower Unit Capacity Right-Hand Rotation	Lower Unit Capacity Left-Hand Rotation
F350/F300	YES*	8.45qt	N26-13440-00-00	N/A	6P3-WS24A-00-00	Yamaha 10 Micron	NGK-LFR6A-11-00	51.4oz ##	44.3oz ##
F250/F225 Sport (20")	YES*	6.1qt	69J-13440-00-00	N/A	6P3-WS24A-00-00	Yamaha 10 Micron	NGK-LFR6A-11-00	40.5oz	35.2oz
F225/F200	YES*	6.3qt	69J-13440-00-00	N/A	6P3-WS24A-00-00	Yamaha 10 Micron	NGK-LFR5A-11-00	38.9oz	33.8oz
F150	YES*	5.7qt	69J-13440-00-00	N/A	6P3-WS24A-00-00	Yamaha 10 Micron	NGK-LFR5A-11-00	33.1oz	29.4oz
F115	YES*	4.8qt	5GH-13440-00-00	N/A	6D8-WS24A-00-00	Yamaha mini-10™ Δ	NGK-LFR6A-11-00	25.7oz	24.2oz
F90/F75	YES*	4.8qt	5GH-13440-00-00	N/A	6D8-WS24A-00-00	Yamaha mini-10™ Δ	NGK-LFR5A-11-00	23.6oz	N/A
T50/T60	YES*	2.85qt	5GH-13440-00-00	N/A	6D8-WS24A-00-00	Yamaha mini-10™ Δ	NGK-DPR6E-B9-00	22.7oz	N/A
F50/F60	YES*	2.85qt	5GH-13440-00-00	N/A	6D8-WS24A-00-00	Yamaha mini-10™ Δ	NGK-DPR6E-B9-00	14.5oz	N/A
F40	YES*	2.11qt	5GH-13440-00-00	N/A	65W-24251-10-00	Yamaha mini-10™ Δ	NGK-DPR6E-B9-00	14.5oz	N/A
F20/F15	YES*	1.9qt	5GH-13440-00-00	N/A	61N-24563-00-00	Yamaha mini-10™	NGK-DPR6E-B9-00	10.1oz	N/A
T9.9	YES*	27oz	N/A	N/A	68T-24251-00-00	Yamaha mini-10™	NGK-BR6HS-10-00	12.5oz	N/A
F9.9/F8	YES*	27oz	N/A	N/A	68T-24251-00-00	Yamaha mini-10™	NGK-BR6HS-10-00	5.1oz	N/A
T8	YES*	27oz	N/A	N/A	68T-24251-00-00	Yamaha mini-10™	NGK-BR6HS-10-00	10.9oz	N/A
F6	YES*	27oz	N/A	N/A	68T-24251-00-00	Yamaha mini-10™	NGK-BR6HS-10-00	5.1oz	N/A
F4	YES*	16.9oz	N/A	N/A	6L5-24251-00-00	N/A	NGK-BR6HS-10-00	3.5oz	N/A
F2.5	YES*	11.8oz	N/A	N/A	N/A	N/A	NGK-BR6HS-10-00	2.5oz	N/A
F115 (80 Jet)	YES*	4.8qt	5GH-13440-00-00	N/A	6D8-WS24A-00-00	Yamaha mini-10™ Δ	NGK-LFR6A-11-00	N/A	N/A
F90 (65 Jet)	YES*	4.8qt	5GH-13440-00-00	N/A	6D8-WS24A-00-00	Yamaha mini-10™ Δ	NGK-LFR5A-11-00	N/A	N/A
F60 (40 Jet)	YES*	2.85qt	5GH-13440-00-00	N/A	6D8-WS24A-00-00	Yamaha mini-10™ Δ	NGK-DPR6E-B9-00	N/A	N/A
F40 (30 Jet)	YES*	2.11qt	5GH-13440-00-00	N/A	65W-24251-10-00	Yamaha mini-10™ Δ	NGK-DPR6E-B9-00	N/A	N/A

YES\* Yamalube 4M 10W-30 FC-W® or 20W-40 FC-W® (recommended for warm climates)

## Yamaha Gearcase Lube HD required. All other Yamaha Outboards use Yamaha Gearcase Lube.

\*\*\* Other fuel filters may be required for this engine. Consult your authorized Yamaha Marine Dealer for complete details.

Δ These Outboards can use either Yamaha mini-10™ or Yamaha 10 Micron.

Note: All numbers listed are subject to change without notice.

Please verify all listings with your local authorized Yamaha Marine Dealer.

NGK is a registered trademark of NGK Spark Plug Co., Ltd.



# Capacities and Specifications CONT'D (CURRENT ENGINES ONLY)

## V MAX® / HPDI / Two Stroke Outboards

	OUTBOARD	Yamalube® 4M FC-W®	Oil Capacity w/ Filter	Oil Filter Part #	Yamalube® 2M TC-W3®	Primary On-Engine Fuel Filter Element ***	External Fuel / Water Separating Filter	Spark Plug #	Lower Unit Capacity Right-Hand Rotation	Lower Unit Capacity Left-Hand Rotation
V MAX®	VZ300	N/A	N/A	✓	YES	6P3-WS24A-00-00	Yamaha 10 Micron	NGK-BKR6E-KU-00	33.8oz	N/A
	VZ250	N/A	N/A	✓	YES	6P3-WS24A-00-00	Yamaha 10 Micron	NGK-BKR6E-KU-00	33.8oz	N/A
	VZ225	N/A	N/A	✓	YES	6P3-WS24A-00-00	Yamaha 10 Micron	NGK-BKR6E-KU-00	33.8oz	N/A
	VZ200	N/A	N/A	✓	YES	6P3-WS24A-00-00	Yamaha 10 Micron	NGK-BKR6E-KU-00	33.8oz	N/A
	VZ175	N/A	N/A	✓	YES	6P3-WS24A-00-00	Yamaha 10 Micron	NGK-BKR7E-KU-10	33.1oz	N/A
	VZ150	N/A	N/A	✓	YES	6P3-WS24A-00-00	Yamaha 10 Micron	NGK-BKR6E-KU-10	33.1oz	N/A
	V150 (carb)	N/A	N/A	✓	YES	6P3-WS24A-00-00	Yamaha 10 Micron	NGK-BR7HS-10-00	33.1oz	N/A
HPDI	Z200	N/A	N/A	✓	YES	6P3-WS24A-00-00	Yamaha 10 Micron	NGK-BKR7E-KU-10	33.1oz	29.4oz
	150	N/A	N/A	✓	YES	6P3-WS24A-00-00	Yamaha 10 Micron	NGK-BR7HS-10-00	33.1oz	N/A
Two Stroke	115	N/A	N/A	✓	YES	6P3-WS24A-00-00	Yamaha mini-10™ Δ	NGK-B8HS1-00-00	25.7oz	N/A
	90	N/A	N/A	✓	YES	61N-24563-00-00	Yamaha mini-10™ Δ	NGK-B8HS1-00-00	20.6oz	N/A
	70	N/A	N/A	✓	YES	61N-24563-00-00	Yamaha mini-10™ Δ	NGK-B8HS1-00-00	20.6oz	N/A
	50	N/A	N/A	✓	YES	61N-24563-00-00	Yamaha mini-10™ Δ	NGK-B8HS1-00-00	14.5oz	N/A
	25	N/A	N/A	✓	YES	61N-24563-00-00	Yamaha mini-10™	NGK-B7HS1-00-00	12.7oz	N/A
	15	N/A	N/A	✓	YES	61N-24563-00-00	Yamaha mini-10™	NGK-B7HS1-00-00	8.5oz	N/A
	9.9	N/A	N/A	✓	YES	61N-24563-00-00	Yamaha mini-10™	NGK-B7HS1-00-00	8.5oz	N/A
	8	N/A	N/A	✓	YES	61N-24563-00-00	Yamaha mini-10™	NGK-B7HS1-00-00	5.4oz	N/A

\*\*\* Other fuel filters may be required for this engine. Consult your authorized Yamaha Marine Dealer for complete details.

✓ Certain Filters are required for the oiling system on Yamaha Two Stroke Outboards. Consult your authorized Yamaha Marine Dealer for complete details.

Δ These Outboards can use either Yamaha mini-10™ or Yamaha 10 Micron.

Note: All numbers listed are subject to change without notice. Please verify all listings with your local authorized Yamaha Marine Dealer.

NGK is a registered trademark of NGK Spark Plug Co., Ltd.

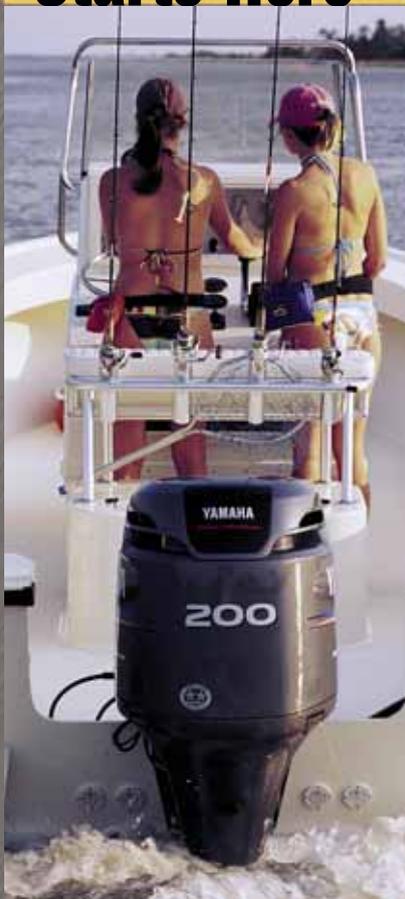


# Reliability Starts Here™



When it comes to boats and outboards, you get out of them what you put into them. That's why proper maintenance and care is so very important. It helps maintain the value of your investment and provide years of trouble-free fun on the water.

Proper maintenance isn't expensive or overly difficult to do. Information about what to do, how to do it, when to do it, and the proper materials to do it with are as close as Yamaha Marine's website and your local authorized Yamaha Marine Dealer. Do it yourself, or enlist the highly trained services of your Yamaha Dealer. Either way, you'll know that by insisting on Genuine Yamaha maintenance and care products,



and by following Yamaha-recommended guidelines, your outboard will be receiving the best of care. In return, it will reward you with year after year of relaxation and enjoyment.

Accept no substitutes. Insist on only the best. Insist on Yamaha, and only Yamaha.

*REMEMBER to always observe all applicable boating laws. Never drink and drive. Dress properly with a USCG-approved personal flotation device and protective gear.*

*This document contains many of Yamaha's valuable trademarks. It may also contain trademarks belonging to other companies. Any references to other companies or their products are for identification purposes only, and are not intended to be an endorsement.*

*For the name of your Yamaha Marine Dealer or for more information on our complete line of Yamaha Outboards please visit us at*

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or call 1-800-88-YAMAHA.



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