



## RIVA Yamaha Wave Blaster II Exhaust System

### Installation instructions

#### List of Parts

Description	RIVA Part #	Yamaha Part #
Cast Aluminum Manifold	N/A	N/A
Cast Aluminum Chamber	N/A	N/A
760 Exhaust Gasket	N/A	N/A
Manifold to Pipe Gasket	N/A	N/A
90 Degree Brass Fitting (4)	N/A	MWV-EW2EX-1A-01
8mm x 35mm Flange Head Bolt (2)	N/A	COM-10151-08-35
8mm x 30mm Bolt (3)	N/A	N/A
8mm Flat Washer (3)	N/A	N/A
8mm Star Washer (3)	N/A	N/A
Small Hose Clamp (9)	N/A	MWV-EW2EX-1A-01
3-Bond Threadlock (1)	N/A	N/A
3/8" Brass T (1)	N/A	N/A
Large Hose Clamp (1)	N/A	N/A
3/8" x 32" Waterline (1)	N/A	N/A
3/8" x 17" Waterline (1)	N/A	N/A
3/8" x 2 3/4" Waterline (1)	N/A	N/A
3/8" x 1" Waterline (1)	N/A	N/A
10mmx 25mm Flange Head Bolt (4)	N/A	N/A
Rubber Exhaust Hose (1)	N/A	N/A
Thermo Switch Sensor Extension (1)	N/A	N/A
3/8" x 1/2" Brass Waterline Splicer (1)	N/A	N/A

**NOTE:** We recommend the use of ThreeBond Threadlock on all bolts being installed with this exhaust system.

**NOTE** - This is a Yamaha racing component. It is designed for competition only. Failures caused by this component are not covered by the Yamaha limited warranty.

#### \*\*\*\* WARNING \*\*\*\*

**Gasoline is highly flammable and explosive. Handle with special care.**

#### \*\*\*\* NO SMOKING \*\*\*\*

1. Turn fuel valve to off.
2. **Disconnect battery cables from battery.** Disconnect negative ( - ) terminal first. Remove battery from boat.
3. Carefully remove the thermo switch sensor from the chamber. Remove the stock exhaust pipe and manifold. Do not discard factory hardware as it will be used later on during installation.
4. Remove the electrical box from the bulk head. Open the electrical box and locate the thermo switch sensor wires (pink wire and black wire plugged in to C.D.I.). Unplug the wires to the thermo switch sensor. Carefully cut the cable tie on the wires next to the rubber grommet and slide the wires out from the grommet. It may be necessary to remove one wire at a time. Yamaha silicon or similar lubricant spray is recommended. **NOTE:** Do not cut grommet or wires.
5. Plug the supplied thermo switch sensor extension wire into the factory thermo switch sensor. The sensor extension wire can only be plugged in one way. Install the factory rubber grommet over the open end of the extension wire. Lube may again be required here. Plug in wire, then assemble electrical box.

6. Reinstall electrical box to bulk head.

7. Install Thermo switch sensor to the factory cylinder head.

**NOTE:** Sensor location is on the front part of the factory cylinder head. Install using factory sensor mounting bolts removed from exhaust sensor location. Be sure to coat the thermosensor with waterproof grease to fill air voids in the thermosensor boss of the cylinder head.

8. Remove the factory exhaust hose and carefully remove the foam packing around the hose. The foam packing must now be placed around the supplied exhaust hose where it passes through bulkhead. (Contact cement may be required to glue the foam packing to the hose.)

9. Install the supplied hose to the water box and secure using the factory hose clamp.

10. Clean the exhaust gasket surface on the cylinder. Be sure to remove all old gasket material. **NOTE:** When cleaning be careful not to damage exhaust gasket surface area.

**NOTE:** Use the supplied 3-Bond Threadlock on the threads of all bolts before installation.

11. Loosely thread two of the supplied 10mm x 25mm flange head bolts through the exhaust gasket and into the center two bottom threaded holes in the cylinder, leaving a 1/2" gap between the cylinder and the head of the bolt. (A thin coating of Yamabond 4 is recommended on both sides of the gasket.)

12. Install a supplied 90 degree brass cooling fitting into the exhaust manifold. (A thin coating of 3-Bond 1211 on the threads is recommended.)

13. Install the factory cooling line from the jet pump (the main cooling line) to the brass 90 degree water fitting on the exhaust manifold. Use the supplied small hose clamp to secure the cooling line.

**NOTE:** We recommend replacing any tie straps on cooling lines between manifold and pipe with hose clamps for maximum reliability.

14. Slide the exhaust manifold between the exhaust gasket and the two loosely installed hex bolts. Using 3-Bond Threadlock, Install the remaining 10mm x 25mm flange head bolts into the center two top holes in the manifold. Install the remaining factory manifold bolts into the remaining holes and torque all eight bolts to 22 ft-lbs., starting with the bottom center bolts.

**NOTE:** It may be necessary to use a 12mm angle head wrench to tighten the two bottom center bolts on the manifold.

15. Install the three remaining 90 degree brass fittings into the three locations on the headpipe. (A thin coat of 3-Bond 1211 on the threads is recommended.)

16. Coat both sides of the supplied manifold to pipe gasket with a gasket sealer (Yamabond 4). Stick the gasket to the gasket surface on the manifold.

17. Holding the exhaust pipe in position loosely install all three 8mm x 30mm bolts with flat and lock washers through the flange of the head pipe to connect the pipe to the manifold. Use the 3-Bond Threadlock provided.

18. Loosely install one of the two factory 10mm x 60mm bolts through the chamber and into the cylinder to position it in place. Tighten the three 8mm x 30mm head pipe to manifold bolts to 22 ft-lbs.. Install the remaining 10 x 60mm bolts through the chamber and into the cylinder. Torque the two chamber to cylinder bolts to 29 ft-lbs. Don't forget to use 3-Bond Threadlock on the threads of all bolts.

19. Reinstall the original pipe bracket to the cylinder and install the two 8mm x 35mm bolts that secure the pipe to the bracket on the head. Torque to 22 ft-lbs. Use 3-Bond threadlock on all the bolts in this step.

**NOTE:** If you have a milled head it may be necessary to install washers underneath the exhaust bracket to shim the bracket to its original height.



20. Using the supplied 3/8" x 32" water line install one end to the rear cylinder head water outlet and the opposite end to the top fitting on the head pipe. Secure using the supplied small hose clamps. ( refer to diagram on page 4 )

21. Install the supplied brass "T" fitting between the supplied 3/8"x 2 3/4" and one of the 3/8"x 17" sections of waterline. Install the 2 3/4" section to the bottom fitting on the head pipe closest to exhaust manifold, then install the other end to the pipe stinger fitting (exhaust hose end). Take the factory water by-pass and install to the open end of the brass "T" fitting. Secure using the supplied small hose clamps. ( refer to diagram on page 4 )

22. Install the supplied 3/8" X 17" section of waterline onto the front cylinder head water outlet. Secure using a small hose clamp provided. Using the supplied 3/8"x1/2" brass waterline splicer connect the 3/8"x17" waterline from the cylinder head to the stock 1/2" waterline from the exhaust outlet. Secure using small hose clamps provided and the stock 1/2" hose clamp. You will need to shorten the stock 1/2" waterline. Be sure to route the waterline outside the carburetors.

23. Install the exhaust hose onto the exhaust pipe outlet and secure with the factory clamp. Check to make sure that the hose is not kinked and aligned correctly.

24. Reinstall battery and fire extinguisher box in reverse order of removal.

**NOTE:** DO NOT ATTACH BATTERY CABLES AT THIS TIME!

25. Check bilge for tools and any loose lines or fittings. Install battery. Reattach battery cables & vent tube. Turn fuel on.

26. Your installation is now complete. It is recommended that you run your waverunner on the flush kit and recheck all bolts and hose clamps before heading out to the water.

## **Important information and recommendations**

### **IMPORTANT**

- Routine maintenance is required to ensure trouble free service from this exhaust system. Check all bolts and clamps before each use of the water vehicle.

### **Carburetor Recommendations**

- The ideal carburetor settings will vary according to altitude and other atmospheric conditions. We recommend the following set up at sea level; #125 pilot jets, #110 main jets, high speed adjustment screw start at 1/2 turn out, low speed adjustment screw at 1 1/4 turns out.. The settings for your application may vary.

### **Technical Support**

- For answers to questions about installation, trouble shooting or tuning your RIVA Yamaha Exhaust system, contact;

RIVA Yamaha @ (954) 785-4820 (ask for Tech Support)  
or your local Yamaha Accessory Dealer

# RIVA Yamaha Exhaust System

## Limited Lifetime Warranty

RIVA Yamaha Exhaust Systems are warranted for the lifetime of the original purchaser for materials only. This is limited to defects in the cast aluminum parts of the exhaust system. Painted finish and stripped threads in castings are not covered by warranty.

Hoses, hardware and clamps are not covered under this warranty. Also understand that this warranty does not cover any parts on a watercraft other than the exhaust system. Modified RIVA Exhaust Systems will be void of warranty.

Warranty does not include expenses related to freight or transportation of parts, or compensation for any inconvenience or loss of use while being repaired. All warranty claims must be accompanied by a copy of the original invoice.

RIVA Yamaha will repair or replace warranted parts at our discretion. Warranted replacement parts will be returned freight collect.

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## Water map for RY1510 Exhaust system

### Water Line Installation

