

FISHMASTER



Marine Towers and Accessories

Front PWC Fishing Arch Installation Instructions And Owners Manual

Fishmaster, Inc.

Phone: 877-777-Tower or 678-679-1462

Fax: 877-437-6210

www.Fishmaster.com

Support@Fishmaster.com



THANK YOU FOR YOUR BUSINESS. IF YOU ARE NOT COMPLETELY SATISFIED IN ANY WAY WITH YOUR NEW FISHMASTER ARCH, PLEASE CONTACT US IMMEDIATELY. Our entire purpose as a company is to create great products at affordable prices that fishermen love.

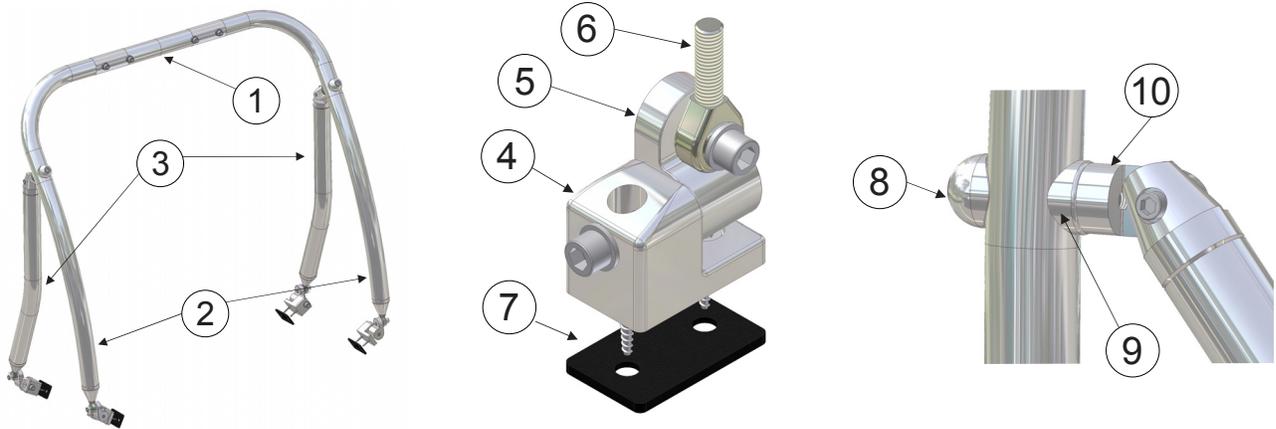
IMPORTANT

Please take a few minutes to read the entire installation instructions and become familiar with the Fishmaster parts and installation before beginning to ensure a high quality, trouble free installation. We put a lot of effort into our manuals and are continually improving them so your feedback and suggestions are sincerely appreciated. If you have any questions during your installation give us a call at 877-777-Tower or e-mail Support@Fishmaster.com

IMPORTANT NOTES ON INSTALLING AND USING YOUR NEW FISHMASTER ARCH

- **Read the entire instruction manual before beginning.**
- **Read and follow the warning label on the Arch.**
- **Never tow anything with the arch as it could pull out of the fiberglass or you could lose control of the PWC.**
- **For future maintenance you may want to grease the threads with marine grade grease. Your Arch should arrive with grease on the threads, if not, please grease before use.**
- **Note you are installing from the Bases up. First install the bases, then the frame. Pre-assemble the frame to determine the base locations.**
- **Re-torque all hardware after each of the first few uses and then check regularly.**
- **The Fishmaster Arch is silent by design. If you hear any rattling or noise at all, check all hardware for tightness. Call us at 877-777-Tower if you continue to hear any rattling or noise as this means something is not installed correctly or needs to be replaced.**
- **Always drill in reverse in fiberglass to prevent the fiberglass from chipping.**
- **Read the entire instruction manual before beginning for a fast, trouble free installation.**
- **Call us at 877-777-Tower or email us at Support@Fishmaster.com if you have any questions or concerns during the installation.**
- **Send us a picture of your PWC after installing your Arch and we'll send you a free Fishmaster T-Shirt. Remember to include your shirt size and mailing address. Please email your pictures to us at Support@Fishmaster.com.**

Getting to Know your Fishmaster PWC Arch



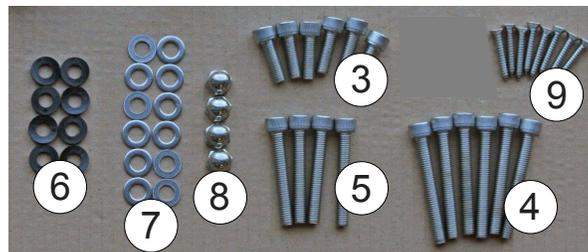
<i>Part</i>	<i>Qty</i>	<i>Description</i>
1	1	Top Section
2	2	Front Legs
3	2	Rear Legs
4	4	Base
5	4	Base Swivel
6	4	Heim Joint
7	4	Base Pad
8	2	Dome Washer
9	2	Tube Washer
10	2	Swivel Tab

The Fishmaster Arch is an innovative design in the emerging PWC Arch market that uses common parts and design elements that make it affordable, functional and easy to install. The main components of the design as shown above are the front legs, rear legs and the top section. The side legs are mirror images to provide right and left legs. These are hinged with a Heim joint at the base to allow the Arch to be folded rearward. *The legs are typically mounted with the bolt heads to the outside for folding the Arch down. They can also be installed with the bolts to the inside but that reduces leg room on the PWC*

You now know the main components and the terminology of the Parts List used throughout this document. **Note that Parts refer to components of the Arch and Items refer to hardware, tools and accessories.**

Familiarize yourself with the below hardware items that will be used in the installation.

Fishmaster Arch Hardware List			
<i>Item</i>	<i>Metric Dimension</i>	<i>Application</i>	<i>Qty</i>
1	M10 Heim Joint	Connect leg to base swivel	4
2	M10 Jam Nut	To lock Heim joint in place	4
3	M10 x 30 Socket Head Cap Screw	Bolt Heim joint to base swivel	4
3	M10 x 30 Socket Head Cap Screw	Bolt rear leg top to swivel tab	2
4	M10 x 80 Socket Head Cap Screw	Bolt top section to rear legs	4
4	M10 x 80 Socket Head Cap Screw	Bolt upper rear leg assembly to front leg	2
5	M10 x 70 Socket Head Cap Screw	Connect swivel tab to rear base	2
5	M10 x 70 Socket Head Cap Screw	Connect swivel tab to front base	2
6	2.14 Tube Washer	Used with above	8
7	M10 Flat Washer	Used with above	8
8	M10 Acorn Nut	Used with above	8
9	#8 x 1" Panhead Screws	Attach bases to PWC	2



The above hardware is included with your Fishmaster Arch and is referenced in the installation of the tower by their item number.

Items and tools needed for Installation

The following items will be needed for the installation of the Arch and are not supplied.

Customer Supplied Tools

Reversible Drill

M8 Head Allen Wrench

3/16" and 7/16" Drill Bits (A 3/8" x 12" wall bit is recommended for standoff installation)

Phillips head screwdriver or drill with Phillips bit

Masking Tape, Tape Measure & Pencil

Friend to help hold & hand things

Safety Glasses (always use when drilling fiberglass or metal)

Vacuum for drill shavings from mounting bases and standoffs

Center Punch is recommended to start all holes before drilling

Customer Supplied Materials

Common grease for bolt threads

3M 5200 Marine Adhesive or equivalent

Installation and Assembly

During the assembly and installation, you should protect the parts from scratches by doing the assembly on a tarp, blanket, grass, carpet or the packaging bubble wrap and cardboard. It is recommended to put masking or trim tape in a generous area around where the bases will be mounted. This protects the PWC and provides a surface to mark during installation.

It is recommended that the PWC be level during installation to ensure all parts are square and level.

Make sure the jam nuts are all the way to the Heim joint and the Heim joints are screwed all the way into the legs, and then back the Heim joint out one rotation.

Planning the installation location – To install the front arch we need to pre-assemble it to determine where the bases will mount. Pre-assemble per the pictures below.

- Slide the rear legs into the top section
- Bolt the dome washer through the tube washer into the swivel tab
- Bolt the rear legs to the swivel tab
- Snug all bolts but do not tighten yet.



You will need to have a second person to help position the arch on the PWC and a third person can also be valuable. Note that moving the legs closer together will make the arch taller and moving the legs farther apart will make it lower.



Place the arch over the front of the PWC. Adjust to verify it will not interfere with opening your front compartment or adjusting the tilt of the steering wheel.

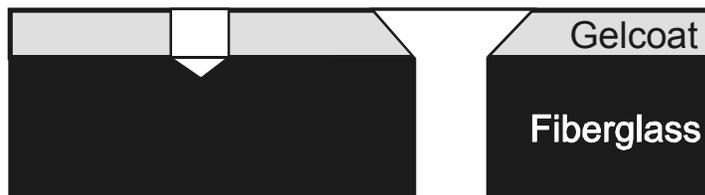
Note the base and base swivel joint will raise the arch about 2" from where the Heim joints are in this step.

Once your satisfied with the location of the front arch determine a reference point to confirm you are at the same location on each side of the PWC. One the SeaDoo shown we used the side corners of the front bumper.



Mark the location of one of the FRONT bases on one side of the PWC. We will install this base first and then use our reference measurements to make sure we install in the same location on the other side of the PWC.

Drill Base Screw Locations and Install FRONT Bases - Understand the following procedures before drilling to ensure a clean hole. PWC's have a very hard gelcoat surface with fiberglass or composite under the gelcoat as shown below.



The gelcoat is a very thin layer approximately 1/16th" thick and the fiberglass below it is normally about 3/8" thick. You should ALWAYS run the drill in reverse while drilling. This keeps the fiberglass from splintering or cracking. Finish the hole by

putting a slight angle (chamfer) on the edge of the gelcoat turning the 7/16" drill bit by hand (without the drill) as shown on the right side in the above diagram to further protect the PWC.

During the drilling is a great time to have someone with the vacuum to remove the fiberglass as you are drilling. To drill the holes follow the above procedure with the 3/16" drill bit.



After drilling the base holes use a 7/16" bit to chamfer the hole as shown in the above image by turning it in reverse by hand. Optionally, you can use a small piece of sand paper to radius the edge of the chamfer also to remove the slight edge. Removing this edge will prevent stress cracking around the holes. Drill both holes for your first base mount and chamfer both edges until it looks like the image above.



Locate a base and base pad. The recessed center of the base pad reduces stress near the holes and virtually eliminates potential stress cracking. This recessed side goes down and against the gelcoat as shown with the flat side against the base.

The taller side of the base will be towards the front of the PWC as shown below.



Put 3M 5200 Adhesive in Holes on the threads: The 3M 5200 Marine Adhesive (or equivalent) is a key structural part of any Arch installation. Squirt 5200 into each hole and be sure it is filled with 5200. Then add a thin layer to the screws. This should look like the images below. Lastly screw the base to the PWC and tighten.



Repeat the above steps for the other front base. Find two to three reference points on your PWC and measure the first base from these points. Use these reference points to ensure they are in identical locations on each side of the PWC.

Install Frame and Rear Bases – You can either install the rear bases now or we recommend bolting the front arch Heim joints to the front base swivels you just installed. You can now double check you like the location of the rear legs and move these closer together or farther apart to adjust the height.

Once you determine where you are going to mount the rear bases measure the same distance on each side from the front bases. Find 1-2 additional reference points on the PWC to make measurements which ensure the rear bases are the same distance to the front base on each side. Repeat the steps above used to mount the front bases and install the rear bases.

Final Assembly – Bolt the rear leg Heim joints to the rear base swivels.



Make sure the arch is centered over the PWC and that the top section is centered between the two front legs. At this point tighten all the bolts that assemble the arch and attach it to the PWC. Make sure the Heim joints are aligned to the base swivel as shown to the left.

Tighten the jam nut against the rear leg to prevent the Heim joint from rotating. You can put a screwdriver between the base swivel and Heim joint to keep it from rotating when you tighten the jam nut.

Bolt Top Section into Place – The top section should be centered between the front legs. Once the top section is centered you will drill holes and bolt it into place. Use a center punch to mark each hole to ensure the hole you drill is in the center of the hole in the top section. Drill each hole from the outside; do not try to drill all the way through the tubing to the other side of the tube.



Install all 4 bolts, washers, tubing washers and acorn nuts.

IMPORTANT: The last step is to double check and tighten all the hardware. Remember to check the hardware the first few times you use your PWC arch and tighten as needed.

The arch is silent by design so if you ever hear any noise coming from the arch there is hardware that needs to be tightened.

Congratulations on your new PWC purchase and installation. If you have any questions, concerns or comment please call us at 877-777-8693 or email us at Support@Fishmaster.com

Remember to send us a few pictures of your PWC with the Fishmaster Arch installed AND YOUR SHIRT SIZE for a free Fishmaster T-Shirt. International customers will need to cover the shipping cost. We also sincerely appreciate any feedback on our products, manuals, website or any other customer recommendations.

Using your Fishmaster Arch – Operating Instructions

The Fishmaster Arch folds aft for storage. The optional quick release knobs make this faster or the M10 bolts can be removed from the rear leg Heim Joint. The Arch should be trailed in the up position.

The Fishmaster Arch is stiff and silent by design. If you hear any rattling or noise from the Arch please check all hardware for tightness. Call us at 877-777-Tower if this does not correct the problem.

Always understand and follow the warnings on the Arch warning label

Fishmaster Arch, Inc. - 5 Year Warranty - Fishmaster Arch warrants that for a period of 5 years from the date the Arch is sold at retail, that Fishmaster Arch will repair directly, or supply parts for the repair of any material cracks, fractures or structural failures that are a result of a manufacturing defect. Anodizing and powder coated surfaces as well as all hardware discoloration are specifically excluded as their care and use cannot be controlled by Fishmaster. Any modifications or improper use, not approved in writing by Fishmaster, shall void this warranty. Fishmaster is not responsible for personal injury or damage to the PWC caused by the use of this Arch. Fishmaster's obligation under this warranty shall not include any international transportation charges or costs of installation or any liability for direct, indirect or consequential damages resulting from delay or improper installation of the Arch. Instead of reading all this fine print, get your Arch on the PWC and go fishing! No dealer, retailer or manufacturer is the agent of Fishmaster and may not assume for Fishmaster any liability in connection with this warranty. This warranty is in lieu of all other warranties, expressed or implied, including any warranty of merchantability or of fitness for a particular purpose. If you need to make a warranty claim contact Fishmaster at 877-777-Tower to receive a return authorization number which is required for all claims. Defects must be reported within 30 days of receipt.

APPENDIX A - Wiring Instructions for your Fishmaster Arch

If you add speakers, lights, antenna or other items to your Fishmaster Arch, you can hide the wires inside the tubing of the Arch. When wiring and you get to the hinge's, drill a hole 1 inch above the weld on the top section and drill a hole 1/2 inch below the weld on the bottom section. Loop the wire out of the tubing of one section and back into the tubing in the other section. Leave 5 – 6 inches of wire out in order for the Arch to fold. The hole size will depend on what size wire and connector you are running and how many items you need to wire. The maximum hole size we recommend is 1/2 inch but normally smaller is all that is needed.

