

FISHMASTER



Marine Towers and Accessories

Rear 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.

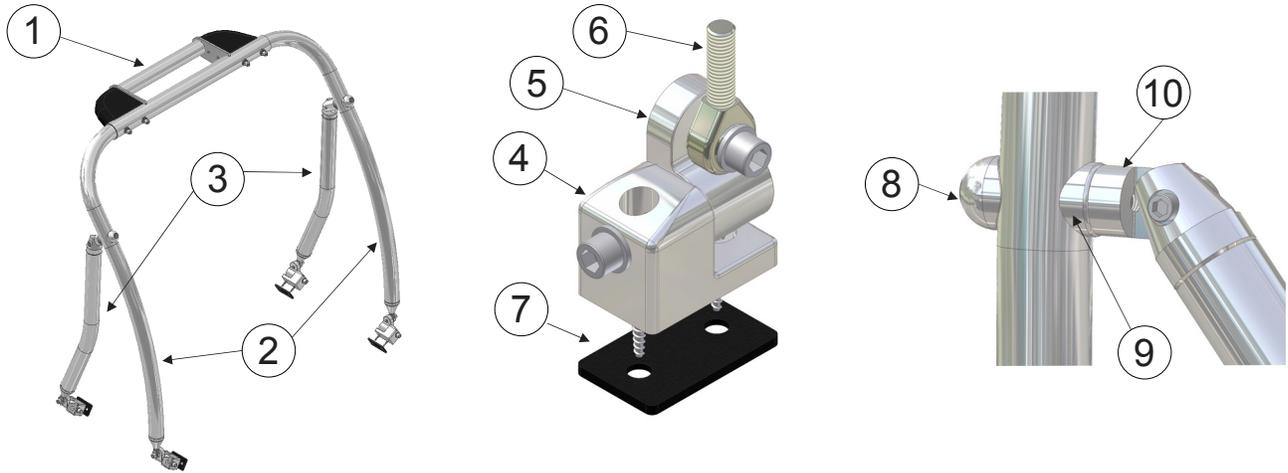
IMPORTANT

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.**
- **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



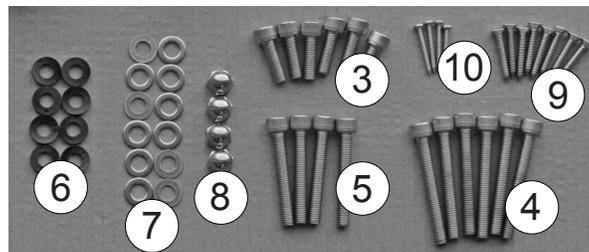
Part	Qty	Description
1	1	Top Section
1	2	Top Section Endcap (Black)
2	2	Front Legs
3	2	Rear Legs
4	4	Base
5	4	Base Swivel
6	4	Heim Joint
7	4	Base Pad
8	2	Dome Washer
9	2	Tube Washer
10	2	Swivel Tab

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 forward. *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
10	#6 x 1" Screw	Attach endcaps to top section	4



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.

Planning the installation location- The rear PWC arch will have the rear legs mounted as far back as possible on the PWC. The front mounts are normally 15" inside to inside in front of the rear mounts (20" outside base to outside of base). The minimum inside to inside dimension is 12". You can adjust the front base locations to meet your needs.

The PWC's below is shown after all 4 bases are installed.

- Install the mounts at the same width apart in the front and back. If your PWC gets narrower in the back it is not recommended to mount the rear legs narrower than the front legs.
- Measure three times and drill once.
- Starting with one rear corner of your PWC determine where you are going to install the base
- Use pencil or marker to mark the location of each of the two holes in the base
- Before drilling read about drilling in fiberglass below.

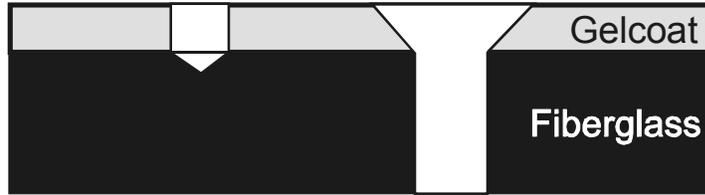


Correct with taller part of base to rear

Not recommended

-Note in the left picture the taller part of the base is towards the rear of the PWC. It can be installed as shown on the right but could interfere with folding the arch.

Drill Base Screw Locations and Install 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.

Normally the taller side of the base will be towards the rear of the PWC as shown on the left and in the images on Page 5.

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 rear 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.

Assemble Frame and Installing Front Bases – You can preassemble the arch to determine where you want to install the front bases. First insert the front legs into the top section, install the rear legs to the front legs, assemble the base swivels to each base. For the rear legs bolt the Heim joints to the base swivels (see detailed instructions on Page 8). You will need two people for this step. Bolt the Heim joints of the rear legs to the rear base swivels. You can now rotate the assembled arch on the PWC to see how you would like it to look and determine the mounting location of the front legs. There is not an exact distance between the bases required but below is a typical installation. You can change the look and angle of the arch by changing the distance between bases.



The front are mounts normally 15” inside to inside in front of the rear mounts (20” outside base to outside of base). The minimum inside to inside dimension is 12”. By moving the front legs forward and aft you can adjust the front base locations to match the way you want your installed arch to look.

Once you determine where you are going to mount the front bases find 2-3 reference points on the PWC to make measurements which ensure the front bases are the same distance to the back base on each side. Repeat the steps above used to mount the rear bases and install the front bases.

Assemble and Install Frame – If you already assembled the frame and attached the rear legs to the bases to determine the front base locations you have already completed this step.

During this step only snug each bolt and we will tighten everything down once we are sure everything is straight and level.

Insert the front legs into the top section. Next install the rear legs to the front legs as shown below. Next bolt each base swivel to the base swivel so the Heim joint is centered over the base as shown in Image C below.

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 them out one rotation. Bolt each Heim joint to the base swivel as in Image C with the bolt on the outside. Make sure to align the Heim joint to the base swivel.



Image A



Image B



Image C



Image D



Image E

Bolt Top Section into Place and Install End Caps – The top section can be installed with the accessory rail facing forward, rear, up or at any location you like. Once you decide which way you want the top section to face you will drill holes and bolt it into place. Before you do this, measure to be sure it is centered. Use a center punch where you are going to drill to ensure the hole you drill is in the center of the hole in the top section.



Now screw the end cap into the top section using the included screws.



IMPORTANT: The last step is to 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 is a great way to add a cooler to the back of your PWC. Be sure to strap it to the base as well as the tie down rings on the back of the PWC. You should also add a rope or strap from the tow point, around the cooler and back to the tow point and go through the handle on each side of the cooler as shown. This provides a backup to the straps used to secure the cooler to the PWC.



The Fishmaster Arch folds forward for storage. The optional quick release knobs make this faster or the M10 bolts can be removed from the 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.

