



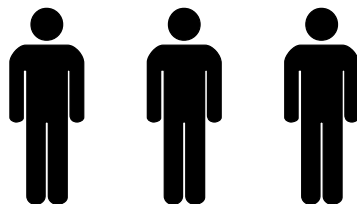
ASSAULT WAKEBOARD TOWER

INSTALLATION GUIDE

Shown with optional accessories



INSTALLATION SUPPORT





IMPORTANT INFORMATION

- This Aerial wakeboard tower fits motor boats with 76-108 inch wide beam widths.
This measurement is taken from the Port to Starboard mounting points.
- Do not fold the tower without having the top section securely fastened to the side sections with the fasteners provided.
- Do not fold the tower by yourself.
- Do not assemble tower on the ground and then try to install it on the boat.
- Do not use impact drivers to install any hardware.
- Torque set screws to 35ft-lbs
- Torque shoulder bolts 50 ft-lbs
- Torque tower foot all-thread to 65 ft-lbs
- Check the top section for burr's before installing side sections to prevent the scratching and marking of tubes. *Aerial does not cover damage caused by burr's during installation.*
- If the area of the deck where the tower will be mounted has a fiberglass thickness of less than 1/4 inch, a backing plate kit must be purchased and installed to provide adequate support.
- Please leave the foam wrap on the tower until the installing is complete.
- Please note that when towing your boat you may notice what appears to be movement in your tower. It is important to understand that the boat is also moving on the trailer and that this movement can be visually deceiving.

CLEANING

- Frequently wash your tower with soap and water.
- As required, use Mothers Mag & Aluminum polish to restore your tower to its original finish.

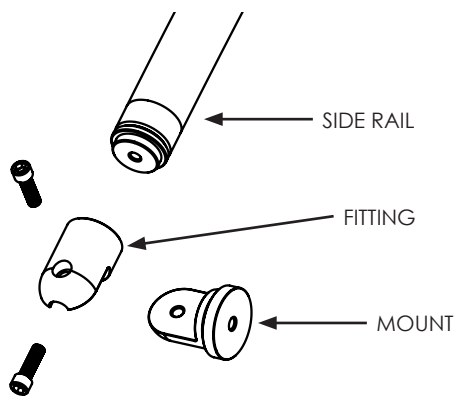
WARNING

- BE CAREFUL when assembling this product. We CANNOT be liable for any burring or scratching that may occur when sliding sections in and out of each other.
- NEVER modify this product in any way.
- NEVER climb, stand or ride on this product.
- NEVER tow watersport tubes or inflatable's with this or any other Aerial Wakeboard Tower.
- ALWAYS use caution with approaching bridges or overpasses.
- ALWAYS inspect this product for loose bolts, fittings or damage before each use.
- Always carefully CONSULT the user manual for proper installation, maintenance and usage.
- Aerial is not liable for personal injury or property damage from the use of this or any other Aerial product.





STEP 1



The mounting feet will need to be assembled to the side rail fittings, followed by attaching them to the side rails.

STEP 2



Tape off all the areas that may potentially come into contact with the side rails.

STEP 3



Once the feet are connected to the side rails, hold the side rail up to your boat. Once the rail is aligned with your windshield use a small piece of tape to mark the position of the mounting feet.

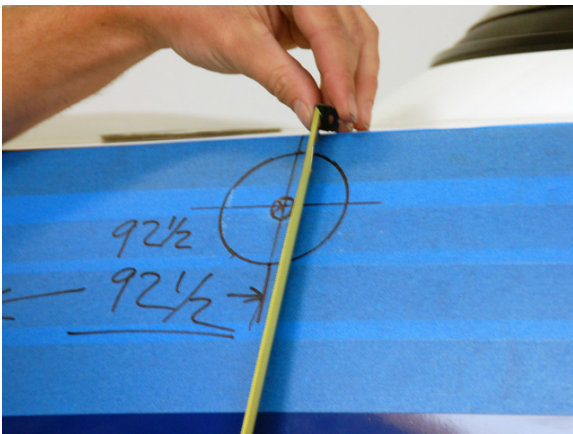


STEP 4



Once the desired position is achieved, place one of the backing plates over the piece of tape and trace around it with a permanent marker.

STEP 5



Transferring marks from the other side.

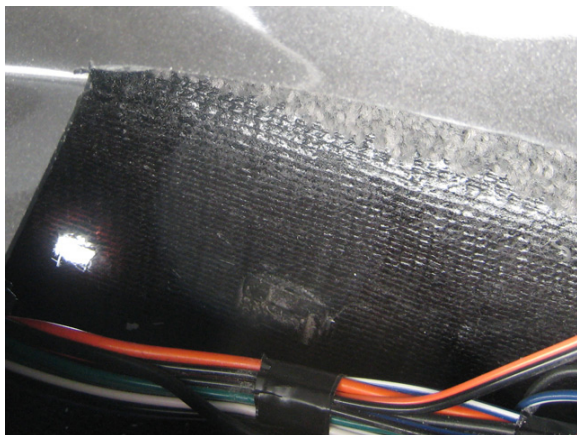
This step is very important! After taping the second side of the boat in approximately the same areas as the first side you will need to measure the distance that you marked on the first side of the boat



It is best to take measurements from the back of the boat and mark with blue tape. Be sure to measure from the same point on both sides.

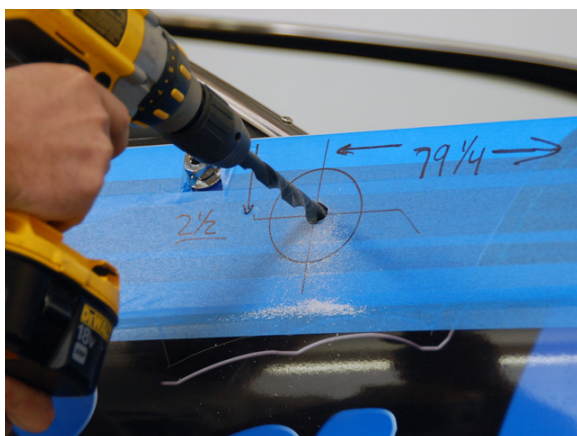


STEP 6



Drilling

Once you have marked your 4 holes, check the underside of the deck for wires.



If necessary, you should move the wires out of the way while you drill. We recommend drilling a small pilot hole which will keep the 5/8" drill bit from walking (moving). A small rat tail file can be used to ease the edge and keep the gel coat from chipping. Be careful of wires!

STEP 7

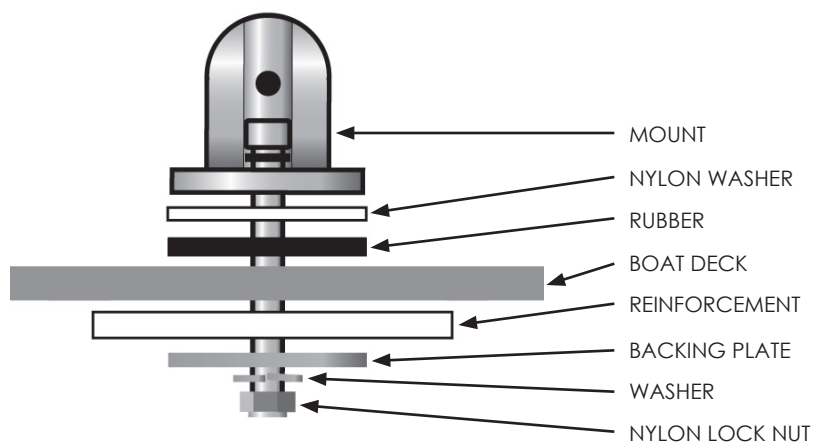


Attaching the side rails

Insert the four all thread screws into the side rail feet.



STEP 7 - CONTINUED...



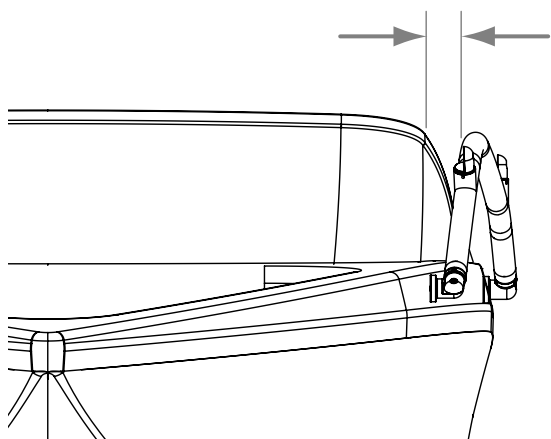
Install the tower mounts to the boat deck in the order shown in the diagram.

Note: in the case where the deck of your boat is less than 1/4" thick, a reinforcing kit is required to thicken and reinforce the deck in the mounting locations.



Remove just enough blue tape for your tower feet to snug up to your boat.

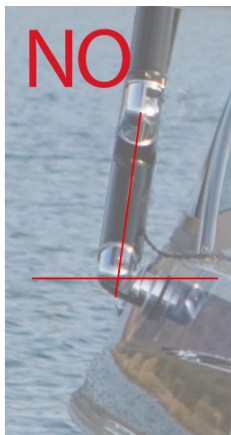
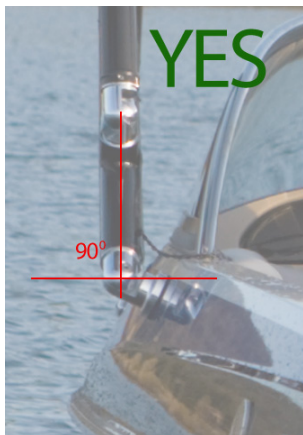
STEP 8



Measuring from your windshield, check the distance to the side rail to make sure both sides are symmetric.



STEP 8 - CONTINUED...



The side rails need to be mounted straight up and down. If they are leaning in or out, this will cause a problem with the tower when you want to fold it.

STEP 9



Assembling the Switch Blade (Rear Leg)

Parts needed:

- 2 x Threaded Lap Joints
- 2 x Trim Washers
- 2 x Shoulder Bolts (The longer bolts supplied)
- 1 x Clamps
- 1 x Socket Cap Head Screw
- 1 x Lower Base

Start at the top of the switch blade and attach the trim washer, shoulder bolt and threaded lap joint.

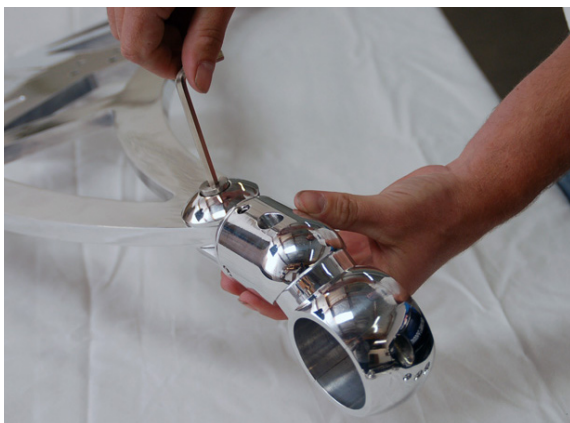
STEP 10



You will then need to attach the lower base to the threaded lap joint. This is then followed by attaching the clamp to the lower base (using the stainless steel socket head cap screw.)



STEP 11



The lower section of the switch blade can now be assembled to the lower fittings and clamp using the trim washer, shoulder bolt and threaded lap joint.

STEP 12



Insert the front leg hinge joint into the lower section of the front arm (repeat for the other side). Its important not to completely tighten the fittings as some adjustment will necessary before the installation is complete.

Before inserting the top-section, make sure there are no burrs in the top-section (Some soap or grease will allow the arms to slide in easier). Someone will need to hold the top-section for you as you insert the front right arm into the top-section and fit the hinge into the side rail.

Once the sides and top section are assembled the fittings that connect to the ends of the front legs can now be firmly tightened so that they do not rotate.

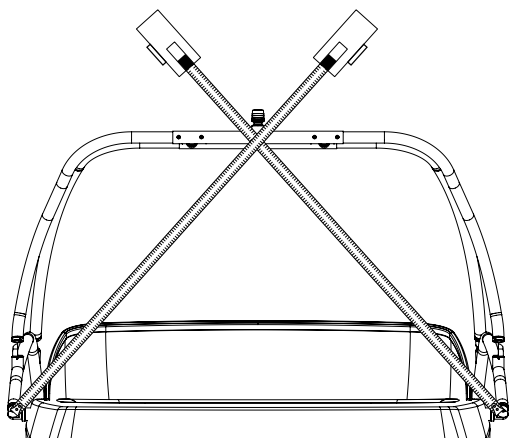
STEP 13



The rear switch blades can now be installed by attaching the top switch blade fitting to the fitting located on the upper section of the front leg. The clamp located on the base of the switch blade will be connected to the lower side rail. We recommend making sure that the clamps on both sides of the tower are located the same distance from the end of the side rail so that your tower looks symmetrical.



STEP 14



Drilling the H-section.

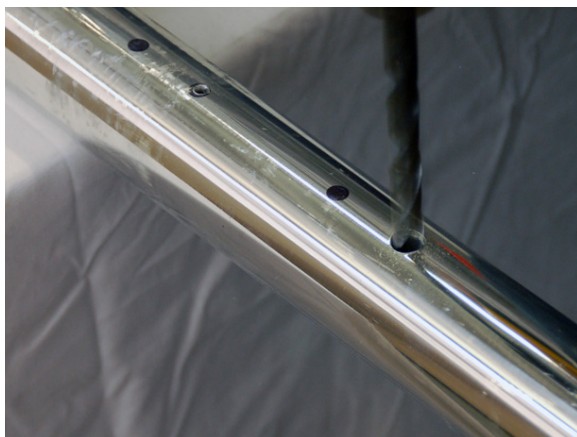
The X measurement is a great way to make sure that your tow point is in the center of your boat. To do this, measure from the tow point to your rear foot, then to your other foot. Cover your boat with an old sheet or old cover to make removing the metal shavings easy. Someone should hold the H-section while you drill.

STEP 15



Using the pre-drilled holes in the top section tube, mark the drilling positions on the front leg tubes. We then recommend drilling the holes with a smaller drill bit (smaller than the 3/8" drill bit) to make a pilot hole.

STEP 16



Following the pilot holes you just drilled, use a 3/8" drill bit to create the clearance hole for the joining bolts. As each hole is drilled we recommend inserting each bolt so that it keeps the parts aligned while drilling the next hole.



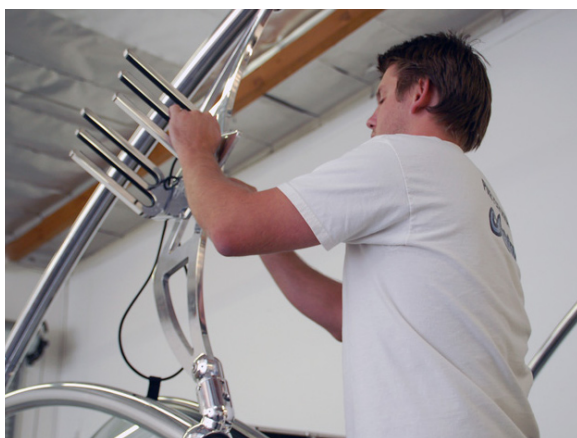
STEP 17



Once all the holes are drilled and all the fasteners are inserted the nuts can be installed and all of the fasteners and nuts can be firmly tightened. You may need to vacuum up the debris and aluminum shavings.

Note: We recommend using Red Loctite Threadlocker when installing these fasteners and any other fasteners that will not require loosening once installed.

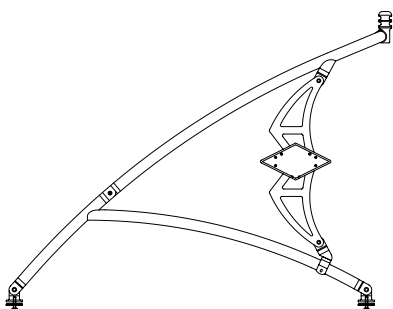
STEP 18



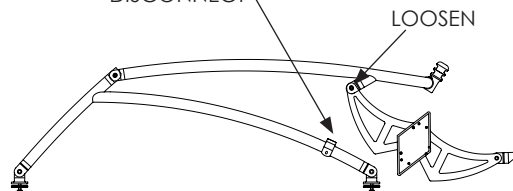
To install the board rack fingers, use the socket head cap screws provided and attach the fingers to the diamond shaped plate. This diamond plate will then be installed to the rear switch blade legs.

STEP 19 - LOWERING THE TOWER

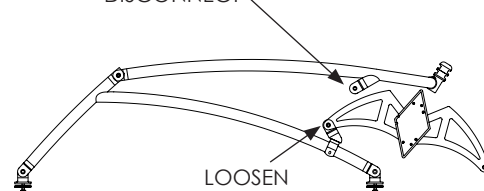
Lowering the tower requires at least 2 people. Never trailer your boat with the tower in the lowered position. Always check to make sure all fasteners are tight and secure before using the tower again.



OPTION A
DISCONNECT

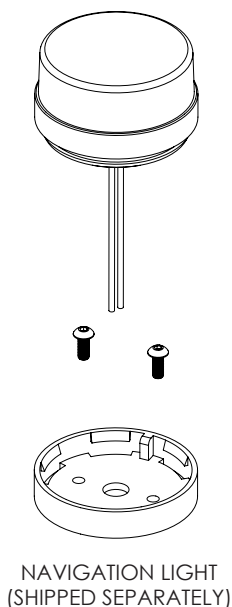


OPTION B
DISCONNECT





STEP 20 - INSTALLING THE NAVIGATION LIGHT



The navigation light is shipped separately.
It is designed to be installed on the top of the tow point.

For a clean wiring installation the wires supplied can be passed through the center of the tow point, along the inside of the top-section and down inside the front leg tube. The wires will need to exit the front leg tube just above the fittings and then be passed over the fittings before entering back into the side rail front tube. Finally the wires will exit the side rail front tube just above the mounting foot and then enter the deck of the boat (through a hole that will need to be drilled) so that they can be connected to a switch and power source.

Note: The tower is not supplied with pre-drilled wiring holes as each customer may have a different wiring requirement depending on how they fold their tower or the accessories that they will mount to the tower.



www.aerialwakeboarding.com