



Barefoot International & Fly High Mfg.
3879 North Richards Street
Milwaukee, WI 53212

Phone: 414-964-3668 / 800-932-0685 Fax: 414-964-5767
E-Mail: bifh@mindspring.com Web: www.fatsac.com

Pro X Series Tower Extension Installation Instructions



WARNING



FAILURE TO ADHERE TO ALL WARNINGS COULD CAUSE DAMAGE TO EQUIPMENT OR VEHICLE, PERSONAL INJURY OR EVEN DEATH.

BE AWARE OF YOUR SURROUNDINGS AND ALWAYS STAY CLEAR OF BRIDGES, OVERHANGING TREES, LOW HANGING POWER LINES AND ANY OTHER OBSTACLES • DO NOT TOW THE BOAT WITH THE TOWER EXTENSION INSTALLED • DO NOT USE TO PULL TUBES, KITES, PARA SAILORS OR STRANDED BOATS • BE SURE TO CHECK ALL HARDWARE, CLAMPS AND CABLES FOR WEAR AND PROPER INSTALLATION PRIOR TO EACH USE • ALWAYS CHECK TO ENSURE THE MOUNTING CLAMPS ARE EVENLY SPACED AND PERPENDICULAR TO THE HORIZON • THIS PRODUCT SHOULD ALWAYS BE INSTALLED WITH A SLIGHT ANGLE TOWARDS THE BOW OF THE BOAT • THERE MUST ALWAYS BE A LOAD ON BOTH SAFETY CABLES TO ENSURE THE EXTENSION IS RIGID



WARNING



THE USE OF THIS PRODUCT INVOLVES INHERENT RISKS OF INJURY OR DEATH. TO REDUCE THESE RISKS THE INDIVIDUAL MUST ALWAYS STAY WITHIN THEIR LIMITS AND AT SPEEDS THAT DO NOT EXCEED THEIR LEVEL OF SKILL. THIS PRODUCT ALLOWS WAKEBOARDERS TO ACHIEVE MORE HEIGHT AND IT IS STRONGLY RECOMMENDED THAT EACH USER TAKES A SLOW APPROACH TO THE WAKE UNTIL THEY FULLY ADJUST TO THE DIFFERENCE IN FEEL AND HOW THE EXTENSION WORKS. THE DRIVER OF THE BOAT SHOULD MAINTAIN A SPEED 3-5 MPH SLOWER THAN THE INDIVIDUAL'S PREFERRED RIDING SPEED UNTIL THAT INDIVIDUAL IS AWARE OF THE DIFFERENCES OF RIDING. ONLY AFTER THE WAKEBOARDER HAS FAMILIARIZED THEM SELF WITH THE USE OF THIS PRODUCT, SHOULD THEY INDICATE TO THE DRIVER TO INCREASE THE BOAT SPEED. SLOWLY INCREASE THE BOAT SPEED IN INCREMENTS TO ENSURE THE INDIVIDUAL IS ABLE TO RIDE SAFELY WITHIN THEIR LIMITS.

1- Read through all directions and warnings completely before installing this product.

2- You will need the following: masking tape or grease pencil, tape measurer, level, included tools.

NOTE- The support brace is set to it's proper position and must not be moved up or down the arms. There must be a minimum of 36 inches between the clamps of the Tower Extension.

3- Open the tower extension arms and pin the support brace to it's clamp. It should be at least 36 inches wide.

NOTE- The Pro X Series Tower Extension must be installed on the front crossbar of the tower. Malibu and MasterCraft require a different setup due to their tower design.

5- MasterCraft boat owners with single crossbar tower design should skip this step. With the tower up, find the center of the front crossbar and mark it with a grease pencil or masking tape. You will measure from here to find your mount points for the Tower Extension. *Malibu boat owners perform this step on the tubular (rear) crossbar.*

NOTE- The Tower Extension is designed to fit all towers, however Malibu Illusion Towers and MasterCraft towers require additional steps:

- **Malibu boat owners should perform steps 6-7 and then proceed to the step specific to Malibu**
- **MasterCraft boat owners with a single crossbar tower should skip directly to the step specific to MasterCraft**

6- Use the center mark you made in step 5 to measure and mark where you will install the Tower Extension clamps.

NOTE- The main clamps that mount to the tower have two parts. When attached to the tower, these clamps will have a gap between them. It's imperative that the gap is even on both sides of each clamp. To achieve this you must tighten the clamp's four bolts evenly, 1-2 turns at a time. Tighten the bolts using a cross-pattern (think of an X from front to back, alternating between the bolts).

7- Install both clamps using the provided $\frac{3}{8}$ " \times $1\frac{3}{4}$ " SHCS bolts. Lightly tighten the bolts to the point where they can still be adjusted without scratching the tower (make sure the gaps are even).

8- Rotate the clamps so they are perfectly vertical (use a level if possible). Look down the crossbar from the side of the tower and visually line them up to ensure they are vertically symmetrical.

Malibu - Rotate the clamps so the ball is forward and angled slightly downward. The reason for this is that the rear support cable needs to extend backwards to provide proper stability for the tower extension. By rotating the clamps forward you are moving the extension forward, which creates an angle for the rear support cable. Make sure the angles of the clamps are symmetrical. (see Fig. 1)

MasterCraft - Install both clamps on the outside section of the tower using the provided $\frac{3}{8}$ " \times $1\frac{3}{4}$ " SHCS bolts. Lightly tighten the bolts to the point where they can still be adjusted without scratching the tower (make sure the gaps are even). The clamps need to be turned slightly inward and aligned evenly on both sides. (see Fig. 2)

9- When each clamp is aligned both *horizontally* and *vertically*, firmly tighten all eight mounting bolts maintaining even gaps between the top and bottom pieces of the clamps. **They must be really tight to prevent rotation.**

10- With two people, pick up the Tower Extension and align it with the clamps on the tower. The Tower Extension should be held horizontally at this point and orientated so the long support cables will be to the front when the Tower Extension is up.

NOTE- Each arm has a clamp consisting of two pieces. Piece A is pressed into the arm itself; it rotates 360° and is longer. Piece B is a separate part that attaches using two $\frac{1}{2}$ " \times $\frac{3}{4}$ " bolts. MAKE SURE YOU INSTALL PIECE B TO THE INSIDE OF THE MAIN CLAMPS. THIS PIECE IS SHAVED DOWN TO PREVENT BINDING.

11- Make sure that piece A (rotates 360°) of the clamp is on the outside of each ball on the main clamps. One person needs to support the Tower Extension while the other person attaches piece B to piece A (on both arms) using the provided $\frac{1}{2}$ " \times $\frac{3}{4}$ " SHCS bolts. Ensure that they are tightened firmly before proceeding to the next step.

12- Loosen all the set screws on *both* red cable clamps so the cables can be adjusted.

13- Unhinge the over-center buckle for the *front* support cables.

14- Loop the nylon bow sling through the boat's trailer bow eye hook and rest each end on top of the bow.

FIG. 1



FIG. 2



15- Attach the supplied 10' Spectra Fusion leader rope to the delron swivel at the top of the Tower Extension.

NOTE- The following step should be accomplished with the rear support cable's over-center buckle in the closed position. The Tower Extension should be as close to vertical as possible.

16- Now one person needs to lift the Tower Extension while the other pulls on the cables to hoist it up. Once it's up, the person who lifted needs to support it while the other person attaches the *rear* support cables to the *rear* tower crossbar using the connection strap and carabineer. *MasterCraft and Malibu towers - attach rear cable to main to main crossbar.* Make sure the connection strap won't interfere with the ski tow the tower.

IMPORTANT- For safety purposes, the cables must be adjusted so the loop at the over-center buckle is somewhere between 1½" -2" in diameter.

17- With one individual continuing to support the Tower Extension, adjust the rear support cables evenly. Make sure these cables are as tight as you can possibly make them while having the Tower Extension as close to vertical as possible. The loop at the over-center buckle must be 1½" -2" in diameter.

18- Tighten all eight set screws of the rear cable clamp completely. Make sure they are as tight as possible.

19- Now move to the front of the boat and attach the front support cable to the bow sling using the carabineer.

NOTE- The front support cables must have a small amount of slack in them to allow the over-center buckle to be closed. This part of the adjustment process might take a few attempts to get it right.

20- Adjust the front support cables evenly making sure that the loop at the over-center buckle is 1½" -2" in diameter. The cables must have some slack in them, making it possible to close the over-center buckle.

21- When you think you have it set right, tighten *just two set screws per cable* (four total) one on each side of the red cable clamp. Make sure you tighten them firmly or the cables will slip.

22- With the four set screws tightened completely, close the over-center buckle.

23- Now check both the front and rear cables to make sure they are tight and the Tower Extension is completely solid. If you need to make some adjustments, open the over-center buckle and repeat steps 20-22 until the Tower Extension is rigid.

24- Once everything is completely adjusted, tighten all set screws. Check *all* hardware to ensure it's securely fastened.

25- Slide the cable pads over the cable clamps, tuck the excess cable into the pads.

