



## Technical Service Bulletin #36

### E22 Wakeboard Tower Installation

**Revision #2**

June 6, 2000

**Note: Extreme care must be take to avoid scratching or chipping the powder coating on the wakeboard tower during installation.**

E22 Tower, Black – MPE0010909

Tower Transportation Support, Black – MPE0011658

Qty 2 - Tower, Rubber Saddle Pad, Black – MPE001090901

or

X22 Tower, White – MPE0010908

Tower Transportation Support, White – MPE0011659

Qty 2 - Tower, Rubber Saddle Pad, White – MPE001090804

#### Parts Needed

Qty 2 – Tower Locking Pin - MPE001090801	Tower Support Strap – MTX0010895
Qty 12 – 1/4" hole 1" Flat washer- Dealer supply	Qty 12 – 1/4"X20 Nylok nut – Dealer supply
Qty 12 - 1/4"X20X2 1/2" Bolt – Dealer Supply	Tower Support Eye – MTX001089501
Qty 1 – Backing plates (set of 2) – MDH0010973	

#### Tools Needed

Drill	1/4" Drill bit with counter sink	10/64 <sup>th</sup> Drill bit
1/2" Drill bit	Ratchet	7/16 socket
Dremel w/ beveling bit	Philips screwdriver	5/16 Hex wrench
9/64 <sup>TH</sup> Drill bit	Grease pen	

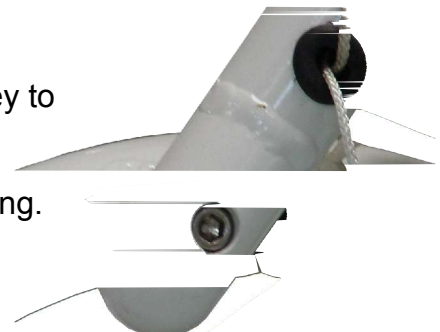
#### WARNING

Always be sure to wear OSHA approved eye protection when using a drill or other rotary tools as these have the potential to throw debris into the air. Always be sure to wear OSHA approved dust masks when working with fiberglass.

#### Procedure

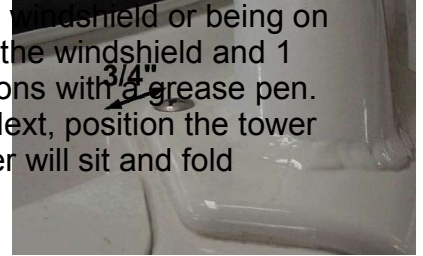
##### Step 1 – Remove The Tower Legs

Before beginning to install the Tow Tower use a 5/16 hex key to remove the two tower legs from the upper tower section by removing the hinge bolt. Carefully store the top section of the tower to prevent scratching or chipping the powder coating.



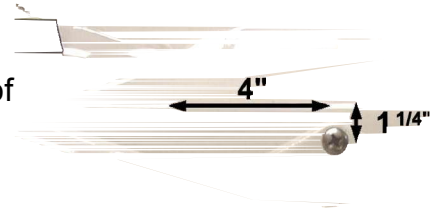
## Step 2 – Positioning Tower

The top bolt in the forward section of the tower sits 3/4" away from the bow air vent and as close to the windshield ridge as possible without touching the windshield or being on the ridge. The top bolt of the aft section is located 4" back from the windshield and 1 1/4" down from the edge of the gunwale. Mark all the bolt positions with a grease pen. Reinstall the top section of the tower using the 5/16<sup>th</sup> hex key. Next, position the tower to double-check the screw positions. Finally, verify that the tower will sit and fold without contacting the windshield.



## Step 3 – Drill Screw Positions

First, drill out the screw holes using a 1/4" counter sinking drill bit. Once the holes are drilled enlarge them slightly using a 10/64<sup>th</sup>-drill bit. Next, drill a 1/2" hole in the center of the forward, port tower support position. This hole will be used to feed the speaker cables through the hull to the port storage compartment.



Finally, use a dremel with a beveling bit to bevel the gelcoat around the holes to prevent cracking when the tower is tightened down. **Note: All Epic22 boats with a HIN above B121 have a pair of aluminum mounting / backing plates integrated into the deck construction. These have been installed at the front mounting location only, the rear mount backing plates must be inserted at the time of tower installation. Epic 22 boats with a HIN below B121 will need these plates added in the forward mounting location.**

## Step 4 – Install Bolts

First, seal all the holes drilled in Step 3 with 3M 5200 marine adhesive/sealant. Next, position the tower on top of the rubber saddle pads so that it is in the final mounting location. Using a 7/16 socket install the forward 1/4" bolts and washers and tighten them to 10 ft-lbf while a second technician uses the philips screwdriver to keep the bolts from spinning. Next, repeat the process with the aft bolts making sure to add the aluminum mounting plate inside the hull. **Note: The aft mounting location must have the aluminum mounting plate installed to reinforce the hull at the stress point created by the tower.**

## Step 5 – Running Speaker Wires

If the tower is having the optional speakers installed, install the speaker brackets (TSB #35). Next, use the cords prefished through the tower to pull the speaker cables down the port side of the tower to the tower hinge. Feed the speaker cables through the lower tower support toward the forward support location. Make sure the wires made it through the hole drilled in the hull in Step 3 and connect them to the amplifier. Finally, install the tower strap eye 2" off the deck on the forward section of the bow passenger area, after predrilling the screw holes using a 9/64<sup>th</sup>-drill bit. Before returning the boat to owner, fold the tower and install the Tower Transportation Support (TSB #30).