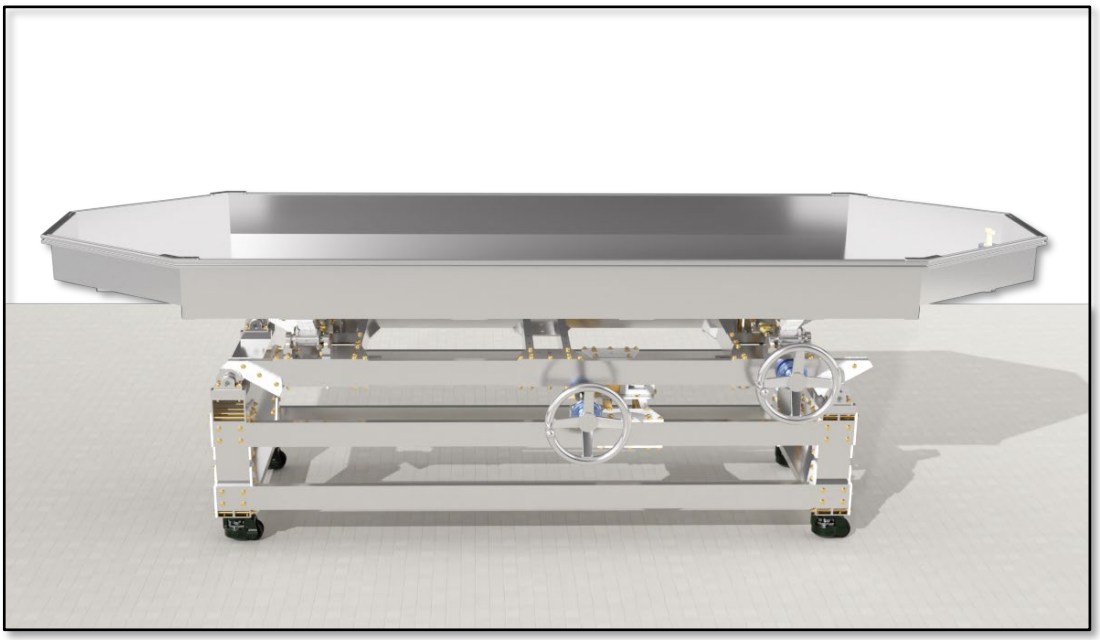
Emriver Em3 Tilt Base Setup Instructions

A supplement to the Emriver Em3 Use and Care Manual



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YOU MUST READ AND UNDERSTAND THESE WARNINGS BEFORE USING THE EMRIVER TILT BASE

The Emriver Em3 model is very heavy when filled with water and sediment. A collapse of the box could severely injure or kill a person. Be absolutely sure you understand how to use the tilt base.

Use only the supports or the Emriver tilt base provided with your model. Despite weight-bearing claims, no standard production sawhorse is strong enough to safely support the Em3 model. Sawhorses and folding tables can collapse under dynamic or side loading.

Check all hardware on the tilt base before each use to be sure it is secure. Inspect nuts and bolts to ensure they are properly tightened, especially if the base is moved frequently.

When setting up the box, the load-bearing support ribs must be aligned with the appropriate support points on the base. Otherwise the box could warp or could collapse when loaded.

Ensure the box is centered on the tilt base, with equal amount of overhang on all sides.

Never use more than 40 gal (151 L) of water in the model. Using more than the maximum amount of water and sediment could cause the box or supports to collapse, or could cause damage to the tilt base.

Never use more than the provided 240 lb (109 kg) of sediment in the box, and do not place any heavy objects in the box. Any extra sediment received is intended to replace media that is lost over time.

Be sure modeling media is spread evenly throughout the box.

Never allow people to sit or stand on or in the box. Never get underneath the loaded box.

Keep hands and other body parts away from moving parts and pinch points. All pinch points are indicated with labels.

Supervise children closely while using the tilt base.

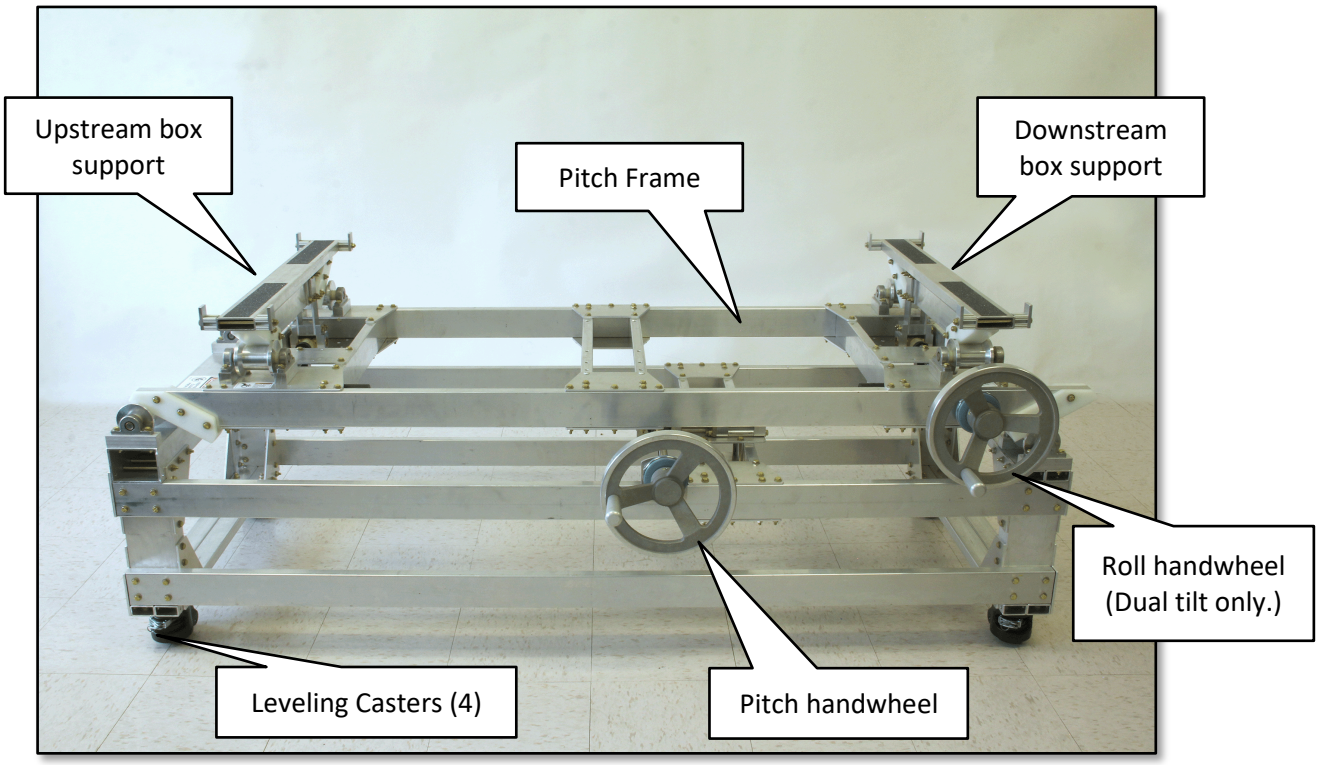
The box should only be used for its intended purpose as stated herein.

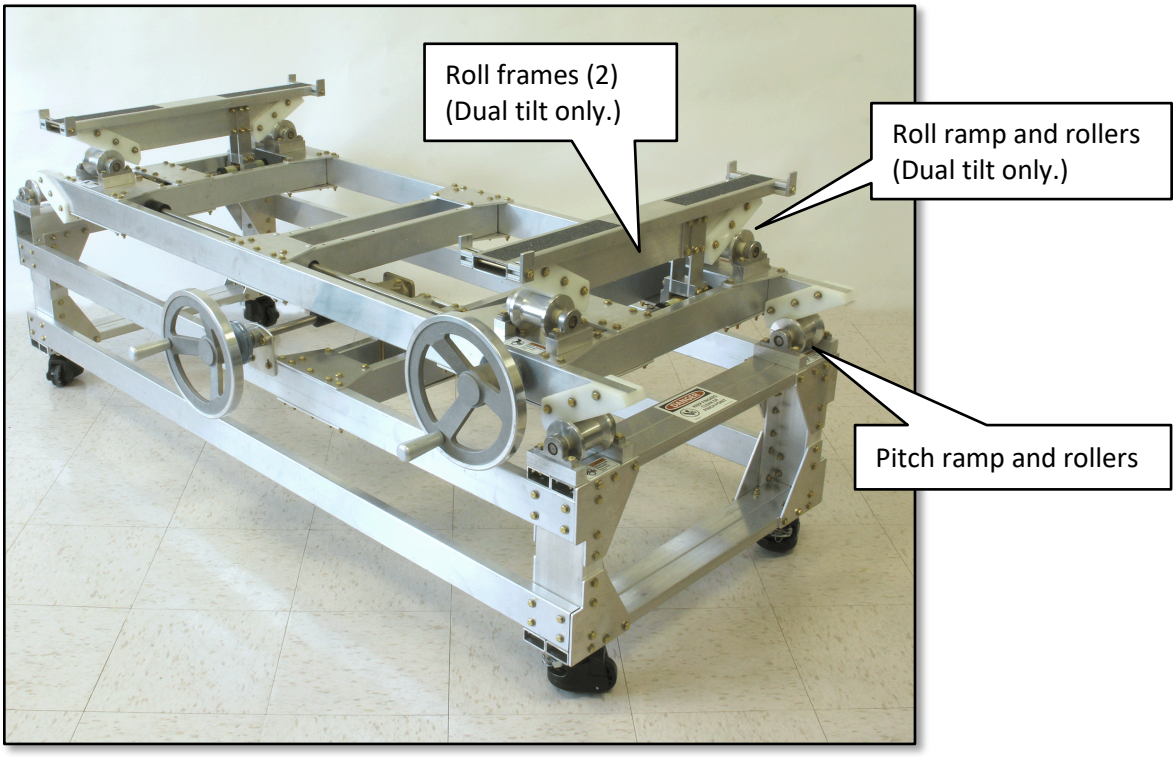
Do not attempt to relocate the tilt base while the model is loaded with sediment or water.

Be sure the rubber feet are extended and the base is level before using.

Orientation

Take a moment to familiarize yourself with the parts of your single or dual-tilt base. The photos show a dual-tilt base; the single-tilt base is the same, minus the roll handwheel and roll frames.

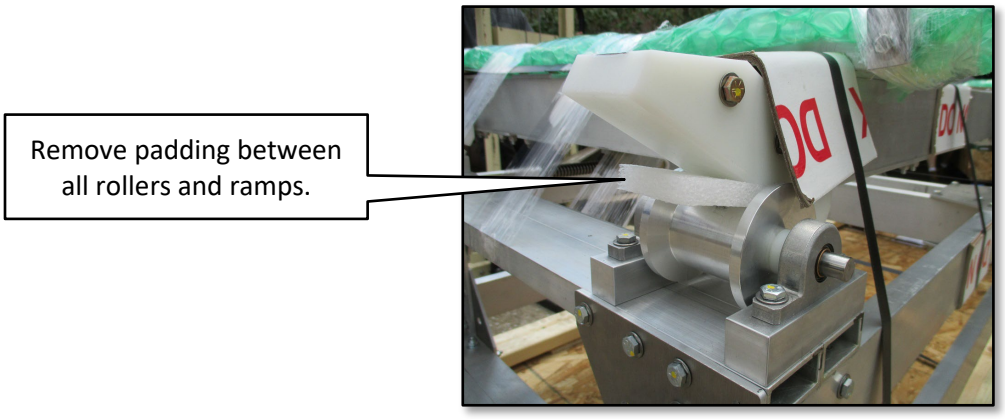




Installation

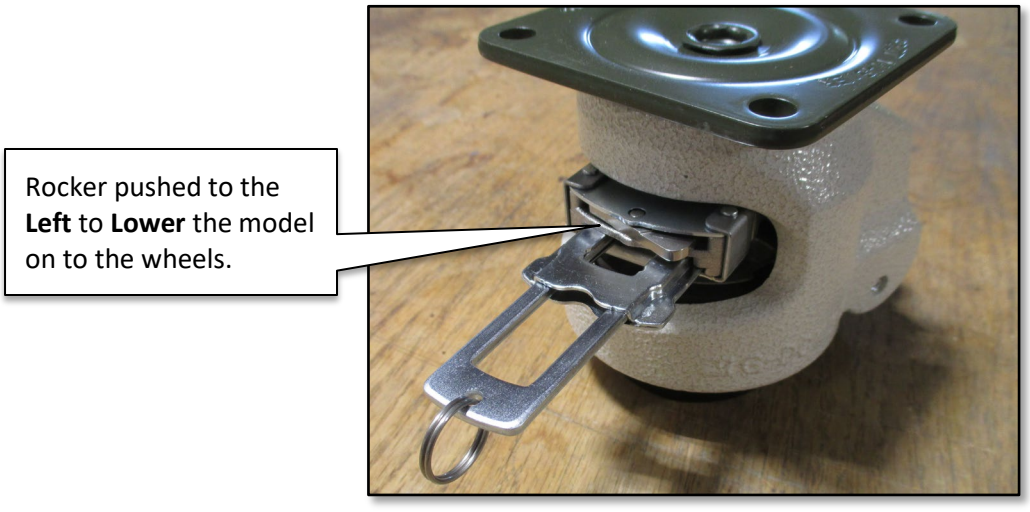
1. Unpack.

Remove all packing straps and padding, including the pads between the rollers and ramps.



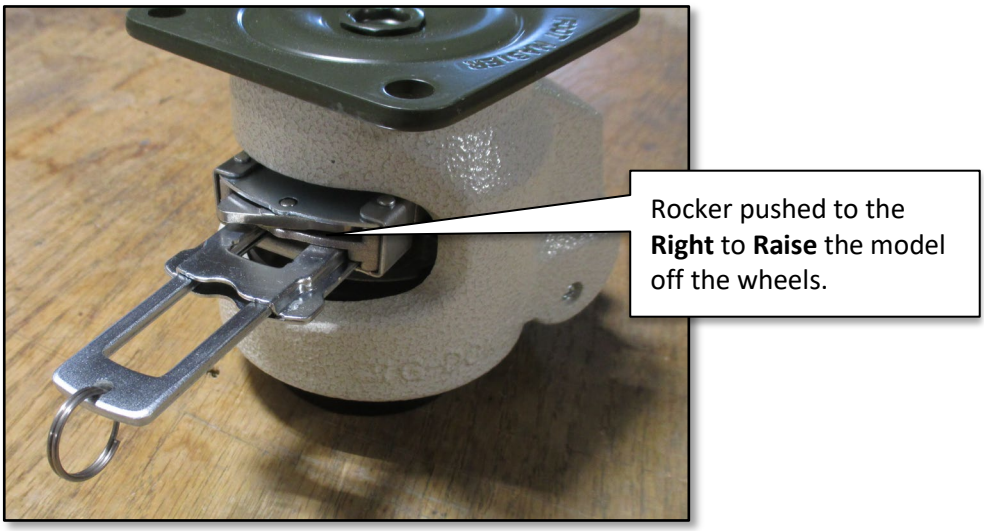
2. Position the base

With a helper, lift the tilt base off the crate and place it on a level floor. The casters on each corner have extendable ratchet levers that raise and lower the rubber feet for leveling. A small rocker at the base of the lever controls the direction of travel. Flip the rocker to the **Left** to **Lower** the model on to the wheels. Pull the lever out and work the ratchet arm back and forth until the caster foot is fully retracted and the model is resting on the wheel. Push the ratchet lever back into the caster so that it isn't damaged. Repeat for all four corners.



Roll the tilt base to the location where it will be used. The model takes a minimum of 3.25 m x 1.02 m (128 in x 40 in) of floor space. Be sure to leave additional room on all sides for people. Once the box is placed onto the base and filled with modeling media, and reservoirs are installed and filled with water, it cannot be moved, so be sure to position it where you will use it before completing the following steps.

When the base is positioned, flip the rockers on each caster to the **Right** to **Raise** the model off the wheels, using the ratchet arm. Use a level on the cross bars to level the base. Push the ratchet arms back into the casters.



3. Install the box

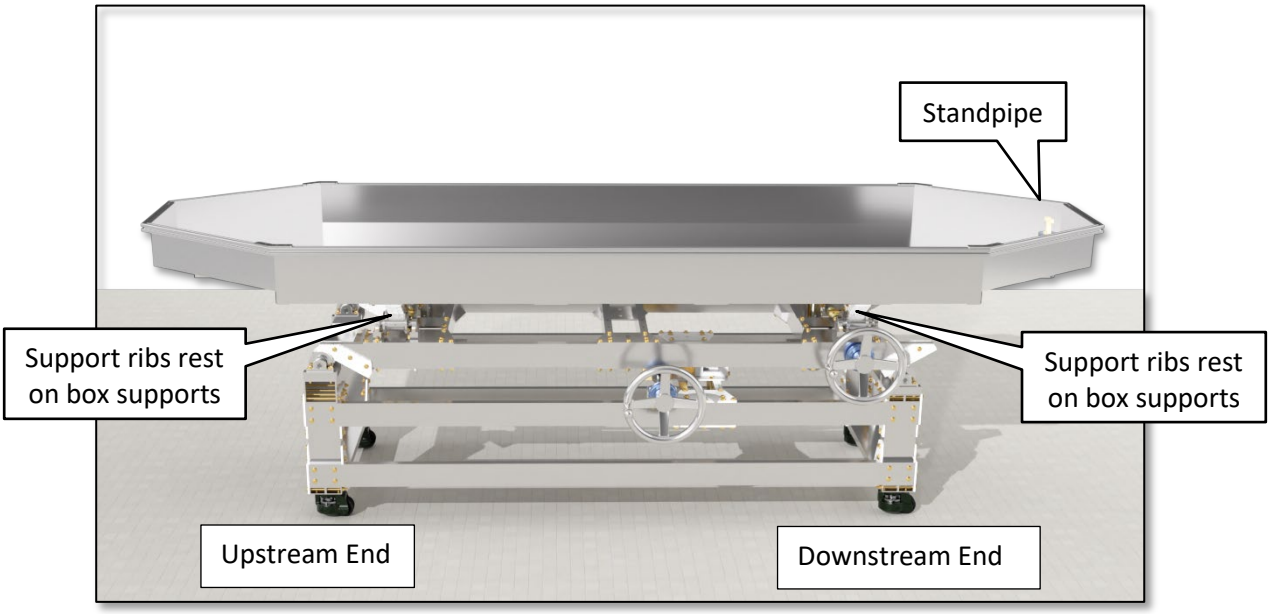
Box installation requires at least two people, as the box weighs 95 lbs (43 kg).

The two support ribs on the bottom of the box must sit on the box supports on the tilt base. The box must be supported at the two reinforced ribs, and nowhere else.

Support ribs are indicated with arrows. These support ribs must fit on the box supports on the tilt base.

When you are standing at the tilt base facing the handwheel(s), the downstream end will be to your right. The upstream end of the base has a 3x4" aluminum tube under the tilt rollers.

Be sure to place the downstream end of the box with the standpipe drain fitting at the downstream end of the base.
Lift the box onto the base, and check to ensure that the box's support ribs fit on the box supports on the tilt base. Ensure the box is centered on the base, with an equal amount of overhang on all sides.



Important: Do not remove the box from the base while it is full of media. Only move the box while it is empty.

Operation

To operate the tilt base, turn the crank(s) on the side. The clutch will prevent the tilt mechanism from over extending. If you hear a clunking sound as you turn the crank wheel, you are at the end of travel in that direction.

When operating the tilt system, be sure to keep hands away from any moving parts and pinch points.

Do not transport the tilt base while the model is filled with modeling media and water. The reservoirs cannot be moved while full of water.

Maintenance and Care

Routinely inspect all nuts and bolts to ensure they are properly tightened, especially if the base is moved frequently.

Keep the Acme screw on the tilt base lubricated with all-purpose grease. The Acme screw is a large screw, and its threads are exposed and easy to locate when the box is not installed on the tilt base. Rub a small amount of grease along the acme screw where it meets the brass nut (visible from the underside of the tilt base). Then turn the hand crank that controls the pitch axis all the way to one side, and then all the way to the other side to distribute the grease evenly.