



Instructions for MB832 Manual Barrier Ver0614

Read all the instructions before starting

It is recommended that Loctite Blue brand thread sealant be used for all arm and pivot bolts as added protection against loosening.

Warning!!!

Do not install any metal signage on any swing overhead barrier gate arm due to the sharp edges of metal signage may cause injury. Use only plastic signage with rounded edges.

1. Securely bolt barrier base to a concrete pad using (4)1/2" X 12" J-Bolts with washers or drill and place 1/2" X 8" anchor bolts into existing concrete.
2. Plumb vertical legs in both directions, place washers or metal shims under base as necessary. Fill any voids with grout. Securely tighten base to pad.
3. Remove the three Allen head bolts on each side of the Aluminum tube located at the beginning end of the arm tube. Do not remove the single Allen head 20" from the end of the tube. This bolt holds the backing plate and is not removed.

(the fourth 20" Allen head bolt is used arms over 18ft only)



The picture above illustrates the Allen bolts and the position of the backing plate inside the aluminum tube.

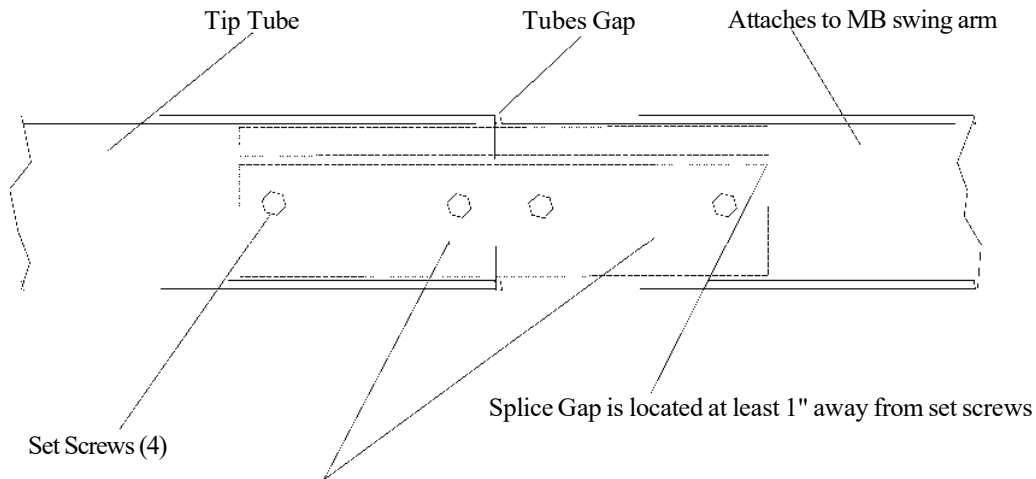
4. Slide the Aluminum tube into the swing arm and line up the three holes on each side of the tube. Start all six Allen bolts by hand before tightening, and tighten all bolts equally by making multiple tightening passes. Remember the steel bolt backing strips go to the inside of the arm.



The picture above illustrates the arm bolted to the swing arm.

5. If the arm is over 16 ft arm it will use a two-piece assembly consisting of a base tube with mounting holes pre-drilled and an extension tube.
6. Read all of step 6 before starting.
You will now carefully tap the aluminum extension tube (if supplied) over the splice attached to the base aluminum tube. Before tapping the extension tube on, line up the Phillips screws on the splice with the three allen head bolts so that the screws will be on the side of the aluminum arm when done. Use a soft wood block to cushion the blows from the hammer. Do not force the tube over the splice, it will tap on with light hammer taps. Finally before starting check for and file any aluminum burrs that might interfere with the installation. Remove the plastic End Cap while tapping tube on to avoid damage to it and then replace it.

Use the supplied #8 or #10 self-drilling/ tapping sheet metal screws to lock the extension arm to the sleeve.



Details for Arm Splice (optional)

Detail for splicing MB832 Barrier Gate Arm

Base Tube Split splice equally between base tube and tip tube.

Special Notes about Splice Installation:

6a) Check with a tape measure the splice which is located in the base tube to confirm that it is centered between the base and tip tubes. Re-center as necessary

6b) Also screw one screw into the tube with the splice BEFORE tapping the other tube into the splice so that the splice doesn't get knocked off center from the tapping the tubes together.

6c) Look at the arm to be sure that it is straight before screwing in all the screws.

6d) Make sure that the screws are placed on the sides of the tube and not the top.

6e) Make sure that the open part of the splice is not located where a screw would hit that area of the splice therefore not drilling into the splice but missing it.

6f) The splice is a tight fit and requires compressing the splice to get it into the tube. If for any reason it doesn't fit tightly then let us know and we will send out a replacement.

7. Add supplied self-stick reflector tape as desired- Stretch a string line down the arm to line up the reflective tape. Alternate the Red and Silver at 12" spacing.

Check the movement of the arm and counterbalance to make sure that it doesn't entrap person operating barrier or bystanders against any immovable objects.

Check all nuts and bolts monthly or any loosening and retighten.

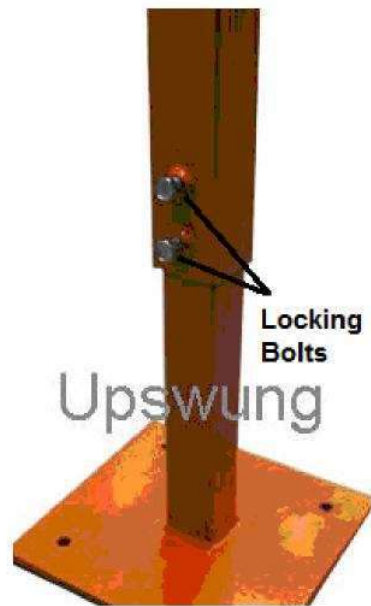
Warning:

Do not install any metal signage on barrier gate arm due to the sharp edges of metal signage may cause injury. Use only plastic signage.

Instructions for Bolt-Down Cradle

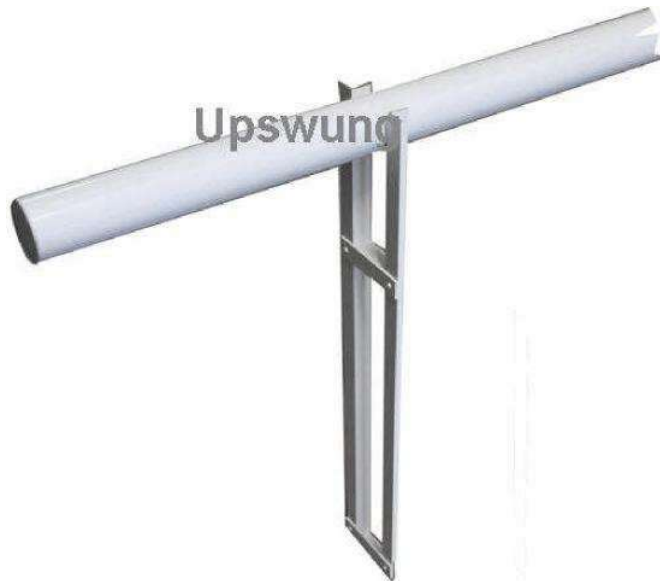
(optional)

1. After installing the barrier gate and arm measure the height that you want the arm supported.
2. Extend the cradle out until you have the desired height dimension.
3. Mark the cradle and tighten the two locking bolts.
4. The MB824 may be slightly rotated in its oblong base bolt holes to line up with the cradle.



Drop Down Aluminum Prop Instructions (optional)

1. After barrier gate is installed, lower barrier arm to the desired down position by supporting the arm with a saw horse or other means at the point where the Prop will be installed.



2. Locate the Prop two thirds of the distance from the pivot point. Example: If your arm is 24ft, locate the prop at 16ft from the pivot point.
3. With the Prop in position, mark the Prop on each side at the centerline of the barrier tube and drill a 1/4" hole through the prop and the barrier tube on each side
4. The prop is made to be cut to size, once the prop is positioned and drilled, cut the excess Prop length 3/4 "from the center of the drilled hole on each leg of the Prop to remove excess Prop. Use a hacksaw or miter saw. WEAR EYE PROTECTION when cutting.
5. Use a file to round off the sharp edges and corners made from cutting.
6. Reinstall Prop and insert 1/4" supplied bolt and nut.
7. Tighten the nut to point just before it binds the Prop. The Prop should still swing freely.

Operation:

When barrier arm comes down the Prop will swing to the vertical position. Since the Prop swings, the position may not be exactly vertical. The arm can be raised slightly to allow gravity to plumb the Prop.

MB Series Barrier Gate Instructions

1. The MB series barrier gate is operated by pushing at the “Grab Point” located on the aluminum barrier gate about 12 inches from the steel swing arm assembly (see picture below) to raise or lower the arm. The part marked “handle” is not used in the normal operation of the MB series barrier gate it is an additional way to secure the arm only.

2. The SHADED AREAS in the picture below are possible pinch points in the operation of the barrier gate. Keep hands and other body parts clear of the shaded areas illustrated below. A safety label also identifies a pinch point in the smaller grey oval.



3. When the arm is up or down it must be secured at the locking loop with a padlock, bolt or carabineer. The arm will normally not move if left unsecured, but the arm can move unexpectedly if not secured from any external force. (see picture below for locking loops).

4. It is not recommended to operate the barrier gate in windy conditions; the arm could swing out of control from high wind loads.

5. It is recommended in high wind weather conditions that the arm is locked with a locking pin until weather passes.

Warning:

Do not install any metal signage on barrier gate arm due to the sharp edges of metal signage may cause injury. Use only plastic signage.



5. Every 3 Months check all external bolts and tighten any loose bolts.
6. Every month check the pivot bolt, tighten as necessary until friction is felt when operating the arm and apply blue Loctite thread adhesive.
7. Commonly used arm locking devices available locally. In situations that require maximum holding power use the case-hardened padlock or grade 8 bolt shown below.

<p>7/16-14 X 1-1/4" Grade 8 Bolt and Locknut</p>	<p>1 1/2" Padlock case hardened (high security)</p>	<p>"S" Hook 3 inch</p>

Lynch Pin 1/4