

# Metal & Cable Corp., Inc.

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PHONE (330) 425-8455 FAX (330) 963-7246

**\*\*\*FAILURE TO READ AND FOLLOW INSTRUCTIONS  
MAY READ TO RISK OF INJURY OR DEATH\*\*\***

## **WARNING**

### FALL HAZARD

**FAILURE TO FOLLOW THIS WARNING MAY  
RESULT IN SERIOUS INJURY OR DEATH.**

Use OSHA approved fall protection equipment when installing mount.

Mount NOT man-rated. Do not lean on mount, hang on mount, or use mount for support.

## **CAUTION**

### MAGNET HAZARD

**FAILURE TO FOLLOW THIS CAUTION MAY  
RESULT IN INJURY OR PROPERTY DAMAGE.**

Mount contains magnetic components.

- PINCH HAZARD. Interaction with magnets on mount may create a pinch hazard.
- PROPERTY HAZARD. Electronic objects such as cell phones, hearing aids, and beepers may be damaged.

## **WARNING**

### DETACHMENT HAZARD

**FAILURE TO FOLLOW THIS WARNING MAY  
RESULT IN SERIOUS INJURY OR DEATH.**

Failure to follow installation instructions, including application of correct torque values, may create a mount detachment hazard. Mount must remain tethered to tower at all times.

## **CAUTION**

### CUT HAZARD

**FAILURE TO FOLLOW THIS CAUTION MAY  
RESULT IN INJURY.**

Metal components of mount may have sharp edges. Use care and wear OSHA approved protective clothing, work gloves, and safety glasses when handling and installing mount.

## **WARNING**

### MAGNET HAZARD

**FAILURE TO FOLLOW THIS WARNING MAY  
RESULT IN SERIOUS INJURY OR DEATH.**

Mount contains magnetic components. Wearers of cardiac pacemakers, implantable cardioverter defibrillators (ICDs) or other metallic, magnetic, or mechanical implants, devices or objects should not come into contact with mount.

## **WARNING**

Do not install on top of ice.

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## Installation instructions for the Magnemount model MASS 3 x 3 configuration

**\*\*\* DO NOT REMOVE THE MYLAR PADS ON THE BOTTOM OF THE  
MAGNETS. THEY ARE AN INTEGRAL PART OF THE SYSTEM. \*\*\***

### Tools needed

$\frac{3}{4}$ " deep socket,  $\frac{3}{4}$ " open ended wrench,  $\frac{1}{2}$ " deep socket, a  $\frac{1}{2}$ " open ended wrench, **and a torque wrench (important!)**

**Location note - In order to achieve maximum holding strength;**

**Model MASS should have no full outside rows of side saddle magnets on tank welds.**

### Installing the center section (the plate with the short mast)

- 1) When removing all mount sections from the shipping container (while on the ground) DO NOT REMOVE THE ATTACHED INSULATING BASE. This will keep the magnets free of debris and the mount from attaching to unwanted objects.
- 2) After the mount sections are on top of the tower, please remove all "dirt" with a dry or wet cloth. Just wiping the surface will improve the holding power.

**Do not put fingers under the magnets, at any time.**

### **SUGGESTED MAGNET ADJUSTMENTS**

- 3) Totally loosen all of the double hex nuts on all 24 magnets to at least  $\frac{1}{4}$ " above the plate. This will allow the magnets to be independently seated and achieve their maximum holding power.
- 4) THE FIRST 4 MAGNETS TO BE ADJUSTED SHOULD BE ON THE EDGES OF THE PLATE, IN THE CENTER OF THE ROWS OF 5 MAGNETS  
(IF THE PLATE IS NOT PAINTED, WE MARK THESE LOCATIONS).  
THEY SHOULD BE ADJUSTED IN THE FOLLOWING ORDER:  
TOP - BOTTOM - SIDE - SIDE

- 5) FINGER-TIGHTEN the bottom hex nut. Hold the bottom nut in place with the open-ended wrench, then, ***with the torque wrench***, tighten the top nut using 10#-ft of torque. Do not use power tools!!!
- 6) THE NEXT 8 MAGNETS TO BE ADJUSTED SHOULD ALSO BE ON THE EDGES OF THE PLATE, ONE ON EITHER SIDE OF THE PREVIOUSLY ADJUSTED CENTER MAGNETS. THEY SHOULD ALSO BE ADJUSTED IN THE FOLLOWING ORDER:  
TOP - BOTTOM - SIDE – SIDE
- 7) The last 12 magnets can be installed in any order, per item 6.
- 8) The Magnemount is now installed.
- 9) The final item is to tether the mount to the tower for safety.

### Installing the side saddles marked “A and B”

- 1) Set the sidesaddles on each side of the center section, with the connecting straps facing the center section with the connecting straps facing the corresponding “A” marks.
- 2) Remove the 4 sets of double nuts from each side of the center section. Place the connecting straps over the 4 bolts and replace the washer/and double nuts just below the top of the bolts. Cut the plastic wrap holding the insulating base. Lift the back end of the plate, remove the insulating base, and while holding the plate ONLY, set the plate down on the tower. **Tap the back end of the plate to contact the center plate.**
- 3) Totally loosen the double hex nuts on all 24 magnets at least ¼” above the plate. This will allow the magnets to be independently seated.
- 4) FINGER-TIGHTEN each bottom hex nut. Hold the bottom nut in place with the ½” open ended wrench, ***and with the torque wrench***, tighten the top nut using 10#-ft of torque. Do not use power tools!!!
- 5) Tighten the double nuts on the straps each the same way as in 4). Do not tighten the bars down to the center plate surface – that will lift the side plate and reduce the holding power of the Magnemount.

### Installing the side saddles marked “B”

- 1) Set the sidesaddles in each CORNER of the center section, with the connecting straps facing the corresponding “B” marks. They are all the same, so they go anywhere. One set of bars is raised to go over the other set of bars. Please DO NOT remove any hex nuts on the plates under the bars. They are spacers designed to be there.
- 2) Remove the 4 sets of double nuts from each “B” bolts. Place the connecting straps over the 4 bolts and replace the washer/and double nuts just below the top of the bolts. Cut the plastic wrap holding the insulating base. Lift the back end of the plate, remove the insulating base, and while holding the plate ONLY, set the plate down on the tower.

- 3) Totally loosen the double hex nuts on all 24 magnets at least ¼” above the plate. This will allow the magnets to be independently seated.
- 4) FINGER-TIGHTEN each bottom hex nut. Hold the bottom nut in place with the ½” open ended wrench, *and with the torque wrench*, tighten the top nut using 10#-ft of torque. Do not use power tools!!!
- 5) Finger-tighten the 4 bottom nuts against the washers on each bar. Hold the bottom nut in place with a ½” open ended wrench and tighten the top hex nut to 10#-ft.

## Installing the elbow and top mast

- 1) Remove the 4 sets of 3/8” bolts/lockwashers/spacers from the shanks of the elbow.
- 2) Place one shank end of the elbow into the lower mast. Insert the upper mast into the other shank end. Raise the mast and level it.
- 3) Replace the spacers/lockwashers/bolts into the **bottom** mast through opposite slots in the mast that align with the threads on the shank. Tighten these bolts to 20#-ft of torque. Next, tighten the ½” internal tooth lockwashers and double nuts to 45#-ft of torque.
- 4) Rotate the upper mast so that the eyebolts on the mast are midway between adjoining eyebolts on the side saddle plates
- 5) Replace the spacers/lockwashers/bolts into the **upper** mast through opposite slots in the mast that align with the threads on the shank. Tighten these bolts to 20 foot-pounds of torque.

## Installing the guy wires

- 1) Attach the guy wires to the turnbuckles. Hold the guy wires to the turnbuckles with the enclosed wire clips – 3 per cable.
- 2) Tighten the turnbuckles by HAND ONLY!! The aim is to only remove the slack in the cable. Over tightening the cables will reduce the holding capacity of the Magnemount. Loop the end of the guy wire through the turnbuckle to keep from loosening.
- 3) For safety – tether the mount to the tower.

## Removal

- 1) Insert the enclosed 1.50" bar at the indicated area under the plate (or at any of the 4 corners) and lift the edge of the plate.
- 2) Cover the magnets with plastic, cardboard, foam board, or other barrier to keep ferrous materials from sticking to the magnets.

If you have any question at any time, please call David Klein at 330-963-7909.