

# Metal & Cable Corp., Inc.

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## **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.

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

*MAGNEMOUNT is a registered trademark of Metal & Cable Corp., Inc.*

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## Installation instructions for the Magnemount STM2 with the antenna(s) between the plates.

**Hand tools needed:** ½” open ended wrench, ½ ” and ¾” deep sockets, a 9/16” socket, and torque wrench(s).

- 1) Prior to the installation of the Magnemount onto the tank – DO NOT REMOVE THE ATTACHED INSULATING CORRUGATED CARDBOARD BASE.
- 2) Please wipe the tank coating in the installation area with a cloth to remove any loose “dirt”. This will help the magnets achieve their maximum holding power.
- 3) Install 2 “U” bolts (4 total) to the mounting plates, with the enclosed flat washer and double nuts.

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

- 1) Prior to the installation of the Magnemount – DO NOT REMOVE THE PACKAGING MATERIALS.
- 2) Install 2 “U” bolts on each mounting plate with the enclosed flat washer and double nuts.
- 3) Lay out both mounting plates of the Magnemounts so that the bolt holes on the mounting plates are approximately vertical.
- 4) Remove the cardboard bases and place the top Magnemount on the tower with the 2 centerlines on the Magnemount aligned with the tank vertical installation line. To correct any misalignment, tap the plate with a rubber mallet.

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

## SUGGESTED MAGNET ADJUSTMENTS

- 5) Totally loosen all of the double hex nuts on all 24 magnets to at least ¼” above the plate. This will allow the magnets to be independently seated and achieve their maximum holding power.
- 6) 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
- 7) 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!!!
- 8) 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
- 9) The last 12 magnets can be installed in any order, per item 7.
- 10) Repeat instructions 6 through 9 for the second plate.
- 11) Slide the mast through the U-bolts. The plates rotate to allow the mast to adjust for proper alignment. If it is necessary to adjust the position of the Magnemounts for alignment, tap the plate with a rubber mallet.
- 12) Tighten the 1/2” nuts on each U-bolt leg with 45 ft-lb of torque. Tighten the 2 bolts (3/8”) on each side of the short mast section to 18 ft-lb of torque.
- 13) Conduct a shear strength test at least 24 hours after the installation. The shear test should be 50 pounds per mounting plate to pass.
- 14) For safety, tether the mount to the tower.

### Removal

- 1) Insert the enclosed 1.5” wide bar at the indicated area and lift the side being pried.
- 2) Set the unit on its side and cover the magnets to keep them clean.

Any questions at any time, call David Klein at 216-533-2044