

# Metal & Cable Corp., Inc.

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**\*\*\*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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## STM4, STM5, and STM6 Installation summary

- 1) The magnets achieve their maximum holding power when the doubles nuts on the magnets are torqued to 10 #-ft.
  
- 2) The mast must rest against all mounting plates without lifting any one of the plates. **They must all be aligned vertically** (away from the tower). Installing the top and bottom plates and mast through the 4 “U” bolts will set the vertical alignment. The other plates can then be tightened against the mast with the “U” bolts – ONLY AFTER – the magnets of the remaining plates are set, per instructions.
  
- 3) **Do not remove the Mylar pads on the bottom of the magnets. They are an integral part of the system!!!**

Installation instructions for the STM4, STM5, and STM6 side tank mounts.

- a) For maximum holding power, rows with 5 magnets should not be placed in-line across a weld.
- b) If mounting more than one piece of equipment on the mast, the equipment must be mounted such that more total weight is below the average separation of the top and bottom Magnemount plates.

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

- 1) Prior to the installation of the Magnemount – 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.

**SUGGESTED MAGNET ADJUSTMENTS**

- 3) 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.
- 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 5.

**Keep fingers clear of the magnets when lifting the mount into place**

8) Install all of the mounting plates so that the mounting plates are roughly vertical. To correct any vertical misalignment, tap the plate(s) with a rubber mallet. These top and bottom plates should be spaced as far apart as possible or as the plans require.

9) Attach the mast with no equipment mounted on it. After the mast has been guided through all 4 of the “U” bolts of ONLY the top and bottom plates tighten the double nuts on each “U” bolt to 45 #-ft of torque. Tighten the 2 bolts on each side of the short mast section of the mounting plate to 18 #-ft of torque.

10) Install the remaining 4 “U” bolts over the mast and into the remaining plates. Finger tighten the bottom nuts against the plate and torque the top nuts to 45 #-ft.

11) The Magnemount is now installed and the equipment can be added.

12) For safety, tether the mount to the tower.

13) Yearly inspections are recommended.

**Removal**

1) Insert the enclosed 1.5” wide bar at the indicated area and lift the side being pried.

2) Set the mount on its side and cover the magnets to keep them clean.