

Metal & Cable Corp., Inc.

9337 RAVENNA ROAD, UNIT C P.O. BOX 117
TWINSBURG, OH 44087
PHONE (330) 425-8455 FAX (330) 963-7246

*****FAILURE TO READ AND FOLLOW INSTRUCTIONS
MAY LEAD 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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STM3 Installation summary

- 1) The magnets achieve their maximum holding power when the doubles nuts on the magnets are torqued according to item #5.
- 2) The mast must rest against the 3 mounting plates without lifting any one of the plates. **They must all be aligned vertically** (away from the tower). Installing the top and bottom mounting plates and mast with the 4 “U” bolts will set the vertical alignment. The center plate can then be tightened against the mast - AND THEN – the 24 magnets be can be set per instructions on the following page.
- 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 3-plate Magnemount side tank mount (with double nuts).

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” 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.

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

- 4) Install the top and bottom mounting plates so that the “U” bolts on 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.

- 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) 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!!!
- 10) The last 12 magnets can be installed in any order, per item 9.
- 11) Install the center mounting plate onto the tower, without the “U” bolts attached, half way between the top and bottom plates (closer to the top plate if need be). Tighten the magnet hardware per items 6-10.
- 12) Attach the mast with no equipment mounted on it. After the mast has been guided through all 4 of the “U” bolts of 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.
- 13) Install the “U” bolts over the mast and into the center plate. Finger tighten the bottom nuts against the plate and torque the top nuts to 45 #-ft.
- 14) The Magnemount is now installed and the equipment can be added.
- 15) Conduct a shear strength test at least 24 hours after the installation. The shear test should be 50 pounds per mounting plate to pass.

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

17) 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.

Any questions at any time, call David Klein at 330-963-7909 (direct)