

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 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 with 8 side plates

***** 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, $\frac{1}{2}$ " open ended wrench, $\frac{1}{2}$ " deep socket, $\frac{5}{8}$ " socket, and very importantly, a torque wrench.

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

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

**Model MASS should have no complete outside rows of
magnets on side saddles over 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". Just wiping the surface will improve the holding power.
- 3) Stand the plate up on its edge – orient the base direction - remove the insulating base - then set the plate down on the tower.

****Lift by the plates only - keep hands and feet clear of the magnets****

SUGGESTED MAGNET ADJUSTMENTS

- 4) Totally loosen the double hex nuts on all 24 magnets at least $\frac{1}{4}$ " above the plate. This will allow the magnets to be independently seated.
- 5) THE FIRST 4 MAGNETS TO BE ADJUSTED SHOULD BE ON THE EDGE 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
- 6) 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!!!
- 7) THE NEXT 8 MAGNETS TO BE ADJUSTED SHOULD ALSO BE ON THE EDGE 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
- 8) The last 12 magnets can be installed in any order, per item 6.
- 9) The center section is now installed.

Installing the side saddles

- 1) This 9-plate model uses 8 side plates (sidesaddles) marked "A" and "B". The sidesaddles marked "A" attach to the center plate, and the sidesaddles marked "B" attach to the "A" plates. (A to A, and B to B)
- 2) Set the sidesaddles marked "A" on each side of the center section, with the connecting straps facing the center section.
- 3) 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 the 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 with a rubber mallet until it contacts the center plate.**
- 4) 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.
- 5) THE FIRST 4 MAGNETS TO BE ADJUSTED SHOULD BE ON THE EDGE 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

- 6) 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!!!
- 7) THE NEXT 8 MAGNETS TO BE ADJUSTED SHOULD ALSO BE ON THE EDGE 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
- 8) The last 12 magnets can be installed in any order, per item 6.
- 9) Repeat instruction #6 for the 4 sets of the double nuts holding the bars to the center plate. **Caution: Only finger-tighten the bottom nut and use 10#-ft of torque tighten the top nut. THE CONNECTING BARS WILL NOT LAY FLAT AGAINST THE PLATE.**
- 10) Repeat the above attachment procedures for plates “B” attaching to plates “A”.

Installing the elbow and top mast - with 8 turnbuckles

Note: When the upper mast is attached to the base by the elbow, until the upper mast is raised, the upper mast must be supported above the top of the short mast to prevent possible damage to the support arms.

- 1) Remove the 4 sets of 3/8” bolts/lockwasher/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. Replace the spacers/lockwashers/bolts into the **bottom** mast through the opposite slots in the mast that align with the threads on the shank. Tighten these bolts to 18 #-ft of torque. Next, tighten the 1/2” internal tooth lockwashers and double nuts to 45 #-ft of torque. Rotate the upper mast so that the eyebolts are in line with the side plates.
- 3) 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 18 #-ft of torque.

Installing the guy wires

- 1) Attach the guy wires to the turnbuckles. Hold the guy wires in place 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. All guy wires should have same tension in them.
- 3) In order to eliminate the chance of the turnbuckles from loosening, loop the open end of the guy wire back through the turnbuckle.
- 4) 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.