

# Metal & Cable Corp., Inc.

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

- a) If mounting one antenna, the centerline of the antenna must be at or below the average separation of the 2 Magnemount plates.
- b) If mounting more than one piece of equipment on the mast, the equipment must be mounted such that more weight is below the average separation of the 2 Magnemount plates.

Tools needed: ½” open ended wrench, ½ ” and ¾” deep sockets, a 9/16” socket, and a torque wrench.

- 1) Prior to the installation of the Magnemount – DO NOT REMOVE THE ATTACHED INSULATING CORRUGATED CARDBOARD BASE.
- 2) Install 2 “U” bolts on each mounting plate with the enclosed flat washer and double nuts.

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

- 3) Lay out and install both mounting plates of the Magnemounts so that the bolt holes on the mounting plates are approximately vertical.
- 4) Remove the cardboard base 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.
- 5) Remove the cardboard base from the second Magnemount. Align it with the vertical installation line. Place it as far as possible from the top plate to hold the mast and that will allow the antenna(s) to be clear.

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

- 6) Loosen the 48 hex nuts on each Magnemount to allow the magnets to be independently seated. (At least 1/4" above the washer.) **Most likely, when first set onto the tank, not every magnet (especially some of the outside magnets) will be in contact with the tank. Just keep giving the magnets more length by backing off the nuts until they all contact the tank.**
- 7) Finger tighten the bottom nuts so that the plate is firmly held. Then, tighten the top nuts against the bottom nuts with 10 pound-feet of torque, while holding the bottom nut with the wrench.
- 8) 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.
- 9) Tighten both sets of 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 20 ft-lb of torque.
- 10) 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 mount on its side and cover the magnets to keep them clean.

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