

Metal & Cable Corp., Inc.

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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 #5 instructions on the following page.

Installation instructions for the 3-plate Magnemount side tank mount (with double nuts).

- 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: 1/2" open ended wrench, 1/2" and 3/4" 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) 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) on the top and bottom mounting plate 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) Note - Set the magnets of the top and bottom plates before those on the center plate. Loosen the double nuts, one magnet at a time, on the inside square of the base plate to allow the magnets to be independently seated. (At least 1/4" above the base plate.) Finger-tighten the bottom nut. Now loosen the outer square of 16 magnets one at a time, (At least 1/4" above the base plate.) Finger-tighten the bottom double nut. Holding the bottom nut with the open ended wrench, tighten all 24 of the top nuts with 10#-ft of torque to lock them in place.
- 6) 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 item 5.

- 7) 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.
- 8) 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.
- 9) The Magnemount is now installed and the equipment can be added.
- 10) For safety, tether the mount to the tower.
- 11) 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)

