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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 according to item #5 instructions.
- 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 #7 instructions.

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 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 on each mounting plate with the enclosed flat washer and double nuts.

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

- 4) 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.
- 5) Note - Set the magnets of the top and bottom plates before those on the other plates. 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) 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.
- 7) **Now, set the double nuts on the magnets of the plates between the top and bottom plates.** 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 nuts. 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.
- 8) 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.
- 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.