

# Metal & Cable Corp., Inc.

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## Installation instructions for the Magnemount model MASS 3 x 3 configuration

### Tools needed

3/4" deep socket, 3/4" open ended wrench, 9/16" socket 1/2" deep socket, a 1/2" open ended wrench, **and a torque wrench (important!)**

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

**Model MASS should have no full outside rows of side saddle magnets on 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" with a dry or wet cloth. Just wiping the surface will improve the holding power.

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

- 3) **\*\*\*Caution –Without the insulator attached, hold the plate by the sides only because the magnets will take the plate out of your hands with no warning when it gets close to the tower.\*\*\***
- 4) Stand the center plate (the plate with the short mast attached) up on its edge – orient the base direction - remove the insulating base - then set the plate down on the tower.
- 5) Totally loosen the double hex nuts on all 24 magnets at least 1/4" above the plate. This will allow the magnets to be independently seated.
- 6) **FINGER-TIGHTEN** each bottom hex nut. Hold the bottom nut in place with the 1/2" open ended wrench, **and with the torque wrench**, tighten the top nut using 10#-ft of torque. Do not use power tools!!!
- 7) The center section is now installed.

## Installing the side saddles marked “A and B”

- 1) Set the sidesaddles on each side of the center section, with the connecting straps facing the center section with the connecting straps facing the corresponding “A” marks.
- 2) 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 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 to contact the center plate.**
- 3) Totally loosen the double hex nuts on all 24 magnets at least ¼” above the plate. This will allow the magnets to be independently seated.
- 4) FINGER-TIGHTEN each bottom hex nut. Hold the bottom nut in place with the ½” open ended wrench, **and with the torque wrench**, tighten the top nut using 10#-ft of torque. Do not use power tools!!!
- 5) Tighten the double nuts on the straps each the same way as in 4). Do not tighten the bars down to the center plate surface – that will lift the side plate and reduce the holding power of the Magnemount.

## Installing the side saddles marked “B”

- 1) Set the sidesaddles in each CORNER of the center section, with the connecting straps facing the corresponding “B” marks. They are all the same, so they go anywhere. One set of bars is raised to go over the other set of bars. Please DO NOT remove any hex nuts on the plates under the bars. They are spacers designed to be there.
- 2) Remove the 4 sets of double nuts from each “B” bolts. Place the connecting straps over the 4 bolts and replace the washer/and 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.
- 3) Totally loosen the double hex nuts on all 24 magnets at least ¼” above the plate. This will allow the magnets to be independently seated.
- 4) FINGER-TIGHTEN each bottom hex nut. Hold the bottom nut in place with the ½” open ended wrench, **and with the torque wrench**, tighten the top nut using 10#-ft of torque. Do not use power tools!!!
- 5) Finger-tighten the 4 bottom nuts against the washers on each bar. Hold the bottom nut in place with a ½” open ended wrench and tighten the top hex nut to 10#-ft.

## Installing the elbow and top mast

- 1) Remove the 4 sets of 3/8” bolts/lockwashers/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.
- 3) Replace the spacers/lockwashers/bolts into the **bottom** mast through opposite slots in the mast that align with the threads on the shank. Tighten these bolts to 20#-ft of torque. Next, tighten the 1/2” internal tooth lockwashers and double nuts to 45#-ft of torque.
- 4) Rotate the upper mast so that the eyebolts on the mast are midway between adjoining eyebolts on the side saddle plates
- 5) 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 20 foot-pounds of torque.

## Installing the guy wires

- 1) Attach the guy wires to the turnbuckles. Hold the guy wires to the turnbuckles 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. Loop the end of the guy wire through the turnbuckle to keep from loosening.
- 3) 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.