

INSTALLATION INSTRUCTIONS

Model MA — MA30-2

Adjustable Mast Mount for Steel Tank Tops

SAFETY WARNINGS

Failure to read and follow all instructions may lead 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 is NOT man-rated. Do not lean on mount, hang on mount, or use mount for support.

⚠ 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.

⚠ WARNING MAGNET HAZARD — CARDIAC DEVICES

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.

⚠ 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.

⚠ 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.

⚠ CAUTION ICE / WEATHER HAZARD

Failure to follow this caution may result in injury or property damage.

Ice accumulation on the mount or mast can significantly increase wind loading and reduce holding power.

Inspect and clear ice from mount before and during severe weather events.

Ensure guy wires (where applicable) are taut and secure prior to any winter weather.

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BEFORE YOU BEGIN

TOOLS REQUIRED

½" open-ended wrench · ½" deep socket · Torque wrench

NOTE: For maximum holding strength, no full outside row of 5 magnets should be placed across a weld.

⚠ DO NOT REMOVE THE MYLAR PADS ON THE BOTTOM OF THE MAGNETS. They are an integral part of the system.

INSTALLATION STEPS

MAGNET TORQUE SEQUENCE — STANDARD METHOD

Follow this sequence for all 24-magnet plates:

Step 1: Loosen ALL double hex nuts at least ¼" above the plate.

Step 2: First 4 magnets — edges of plate, center of rows of 5. Order: TOP → BOTTOM → SIDE → SIDE.

Step 3: Next 8 magnets — edges, one each side of Step 2 magnets. Same order: TOP → BOTTOM → SIDE → SIDE.

Step 4: Remaining 12 magnets — any order.

Torque: Finger-tighten bottom nut, hold with open-ended wrench, then torque top nut to **10 ft-lb**. DO NOT USE POWER TOOLS.

- 1 When removing the mount sections from the shipping container (while on the ground) — DO NOT REMOVE THE ATTACHED INSULATING BASE.

- 2 After the mount sections are on top of the tower, remove all dirt and debris. Wiping the surface improves holding power.
- 3 Cut the shrink wrap holding the insulator to the bottom of the Magnemount. Stand the plate on its edge, orient the base direction, then set the plate down on the tower.
- 4 Totally loosen all double hex nuts on all 24 magnets to at least $\frac{1}{4}$ " above the plate.
- 5 First 4 magnets: Adjust on the edges of the plate, in the center of the rows of 5 magnets. Order: TOP → BOTTOM → SIDE → SIDE.
- 6 Finger-tighten the bottom hex nut. Hold bottom nut with open-ended wrench, then torque top nut to 10 ft-lb. DO NOT use power tools.
- 7 Next 8 magnets: Adjust on edges, one on either side of previously adjusted magnets. Same order: TOP → BOTTOM → SIDE → SIDE.
- 8 Remaining 12 magnets: Install in any order, per Step 6.

INSTALLING THE ELBOW AND TOP MAST

- 1 Remove the $\frac{3}{8}$ " bolts and lockwashers from the exposed shank of the elbow. Insert the shank into the short (bottom) mast. Do not replace the hardware yet.
- 2 Raise the top mast and level it. Replace the lockwasher and bolt into the bottom mast through opposite slots aligned with shank threads. Tighten to 20 ft-lb. Re-torque upper mast bolts to 20 ft-lb. Tighten $\frac{1}{2}$ " elbow nuts/bolts to 45 ft-lb. Tighten double nuts to 45 ft-lb.
- 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.

For Assistance

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