

INSTALLATION INSTRUCTIONS

MASS — All 5-Plate Models

Guyed Mast Antenna Support Structure — 5-Plate Configuration

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.

MAGNEMOUNT is a registered trademark. Patent Nos. #7,624,957 | #9,188,276 | #9,472,937 | www.magnemount.io

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BEFORE YOU BEGIN

TOOLS REQUIRED

¾" deep socket · ¾" open-ended wrench · 9/16" socket · ½" open-ended wrench · ½" deep socket · Torque wrenches (important!)

NOTE: Location: For maximum holding strength, no full outside row of side-saddle magnets should be placed on tank welds.

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

INSTALLING THE CENTER SECTION

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 all mount sections from the shipping container (while on the ground) — DO NOT REMOVE THE ATTACHED INSULATING BASE. This keeps magnets free of debris and prevents unwanted attachment.

- 2 After the mount sections are on top of the tower, remove all dirt. Wiping the surface improves holding power.
- 3 Totally loosen all double hex nuts on all 24 magnets to at least ¼" above the plate.
- 4 First 4 magnets: Edges of the plate, center of rows of 5 (marked if unpainted). Order: TOP → BOTTOM → SIDE → SIDE.
- 5 Finger-tighten bottom hex nut. Hold with open-ended wrench, torque top nut to 10 ft-lb. DO NOT use power tools.
- 6 Next 8 magnets: Edges, one each side of previously adjusted magnets. Same order: TOP → BOTTOM → SIDE → SIDE.
- 7 Remaining 12 magnets: Install in any order, per Step 5.
- 8 The Magnemount is now installed.
- 9 Tether the mount to the tower for safety.
- 10 Check double nuts yearly to ensure they remain tight.

INSTALLING THE SIDE SADDLES

- 1 Set the sidesaddles on each side of the center section, with connecting straps facing the center section.
- 2 Remove the 4 sets of double nuts from each side of the center section. Place connecting straps over the 4 bolts and replace washer and double nuts just below the top of the bolts. Cut the plastic wrap holding the insulating base. Lift the back end, remove the insulating base, and — holding the plate ONLY — set it down on the tower. Tap to contact the center plate.
- 3 Tighten the magnet double nuts per the standard torque sequence (Steps 3–7 of Installing the Center Section).
- 4 Tighten the double nuts on the straps the same way as Step 5 of the center section. Do not tighten the bars down to the center plate surface — this will lift the side plate and reduce holding power.

INSTALLING THE ELBOW AND TOP MAST

NOTE: *When the upper mast is attached to the base by the elbow, until the upper mast is raised, the upper mast must be supported above the top of the short mast to prevent possible damage to the support arms.*

- 1 Remove the 4 sets of 3/8" bolts/lockwashers 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. Replace spacers/lockwashers/bolts into the bottom mast through opposite slots aligned with shank threads. Tighten these bolts to 18 ft-lb. Tighten the 1/2" internal tooth lockwashers and double nuts to 45 ft-lb. Rotate the upper mast so that the eyebolts are in line with the plates.
- 3 Replace spacers/lockwashers/bolts into the upper mast through opposite slots aligned with the shank threads. Tighten these bolts to 18 ft-lb.

INSTALLING THE GUY WIRES

- 1 Attach the guy wires to the turnbuckles. Use 3 wire clips per cable to hold the guy wires from loosening.
- 2 Tighten the turnbuckles by **HAND ONLY**. The aim is to remove the slack in the cable only. Over-tightening reduces the holding capacity of the Magnemount. To lock the turnbuckle, tighten the hex nut to 18 ft-lb, then loop the end of the guy wire through the turnbuckle.
- 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 prevent ferrous materials from sticking.

For Assistance

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