

INSTALLATION INSTRUCTIONS

MASS — 3x3 Configuration with 8 Guy Wires

Guyed Mast Antenna Support Structure — 9-Plate 3x3 with 8 Turnbuckles

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
1/2" and 3/4" open-ended wrench · 1/2" deep socket · Torque wrench

⚠ 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 1/4" 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 — DO NOT REMOVE THE ATTACHED INSULATING BASE.
- 2 After mount sections are on the tower, wipe the surface to remove all dirt.
- 3 Totally loosen all double hex nuts on all 24 magnets to at least 1/4" above the plate.

- 4 First 4 magnets: Edges, center of rows of 5. 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. Same order: TOP → BOTTOM → SIDE → SIDE.
- 7 Remaining 12 magnets: Install in any order, per Step 5.
- 8 Tether the mount to the tower for safety.

INSTALLING THE "A" SIDE SADDLES

- 1 Set the sidesaddles marked "A" 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. Cut plastic wrap on insulating base. Lift back end, remove insulating base, and — holding the plate ONLY — set it down on the tower. Tap to contact the center plate.
- 3 Totally loosen all double hex nuts on all 24 magnets at least ¼" above the plate.
- 4 Follow the standard torque sequence: finger-tighten bottom nut, hold with ½" wrench, torque top nut to 10 ft-lb. DO NOT use power tools.
- 5 Tighten the 4 double nuts on each bar the same way. Do not tighten bars down to the center plate surface — this will lift the side plate and reduce holding power.

INSTALLING THE "B" SIDE SADDLES

NOTE: The "B" sidesaddles go in each CORNER of the center section. One set of bars is raised to go over the other set. DO NOT remove any hex nuts on the plates under the bars — they are spacers.

- 1 Set the sidesaddles in each corner of the center section, with connecting straps facing the corresponding "B" marks.

- 2 Remove the 4 sets of double nuts from each "B" bolt. Place connecting straps over the 4 bolts and replace washer and double nuts just below the top. Cut plastic wrap on insulating base. Lift back end, remove insulating base, and — holding the plate ONLY — set it down on the tower.
- 3 Totally loosen all double hex nuts on all 24 magnets at least ¼" above the plate.
- 4 Finger-tighten each bottom hex nut. Hold with ½" open-ended wrench and torque top nut to 10 ft-lb. DO NOT use power tools.
- 5 Finger-tighten the 4 bottom nuts against the washers on each bar. Hold bottom nut with a ½" open-ended wrench and tighten top hex nut to 10 ft-lb.

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 upper mast into the other shank end. Raise the mast and level it.
- 3 Replace spacers/lockwashers/bolts into the bottom mast through opposite slots aligned with the shank threads. Tighten to 20 ft-lb. Then tighten ½" internal tooth lockwashers and double nuts to 45 ft-lb.
- 4 Rotate the upper mast so the eyebolts are midway between adjoining eyebolts on the side-saddle plates.
- 5 Replace spacers/lockwashers/bolts into the upper mast through opposite slots. Tighten to 20 ft-lb.

INSTALLING THE GUY WIRES

- 1 Attach the guy wires to the turnbuckles. Hold in place with the enclosed wire clips — 3 per cable.
- 2 Tighten the turnbuckles by HAND ONLY. Remove slack only — over-tightening reduces holding capacity. Lock the turnbuckle by tightening 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.

For Assistance

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