

# INSTALLATION INSTRUCTIONS

## Side Tank Mount — STM2

Two-Plate Side Mount with Antenna Between Plates

### 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

1/2" open-ended wrench · 1/2" and 3/4" deep sockets · 9/16" socket · Torque wrench(es)

**⚠ DO NOT REMOVE THE 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 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 Prior to installation — DO NOT REMOVE THE PACKAGING MATERIALS.
- 2 Install 2 U-bolts on each mounting plate with the enclosed flat washer and double nuts.
- 3 Lay out both mounting plates so that the bolt holes are approximately vertical.
- 4 Remove the cardboard bases and place the top Magnemount on the tower with the 2 centerlines aligned with the tank vertical installation line. Tap with rubber mallet to correct misalignment.

- 5 Totally loosen all double hex nuts on all 24 magnets to at least  $\frac{1}{4}$ " above the plate.
- 6 First 4 magnets: Adjust on edges, center of rows of 5. Order: TOP → BOTTOM → SIDE → SIDE.
- 7 Finger-tighten bottom nut. Hold with wrench, torque top nut to 10 ft-lb. DO NOT use power tools.
- 8 Next 8 magnets: Edges, one each side of previously adjusted magnets. Same order: TOP → BOTTOM → SIDE → SIDE.
- 9 Remaining 12 magnets: Install in any order, per Step 7.
- 10 Repeat Steps 6–9 for the second plate.
- 11 Slide the mast through the U-bolts. The plates rotate to allow proper alignment. Tap with rubber mallet if adjustment is needed.
- 12 Tighten the  $\frac{1}{2}$ " nuts on each U-bolt leg to 45 ft-lb. Tighten the 2 bolts ( $\frac{3}{8}$ ") on each side of the short mast section to 18 ft-lb.
- 13 Conduct a shear strength test at least 24 hours after installation. The shear test should be 50 pounds per mounting plate to pass.
- 14 For safety, tether the mount to the tower.

## REMOVAL

- 1 Insert the enclosed 1.5" wide bar at the indicated area and lift the side being pried.
- 2 Set the unit on its side and cover the magnets to keep them clean.

### For Assistance

**Email:** [magnemount@wasinc.com](mailto:magnemount@wasinc.com)

**Web:** [www.magnemount.io](http://www.magnemount.io)