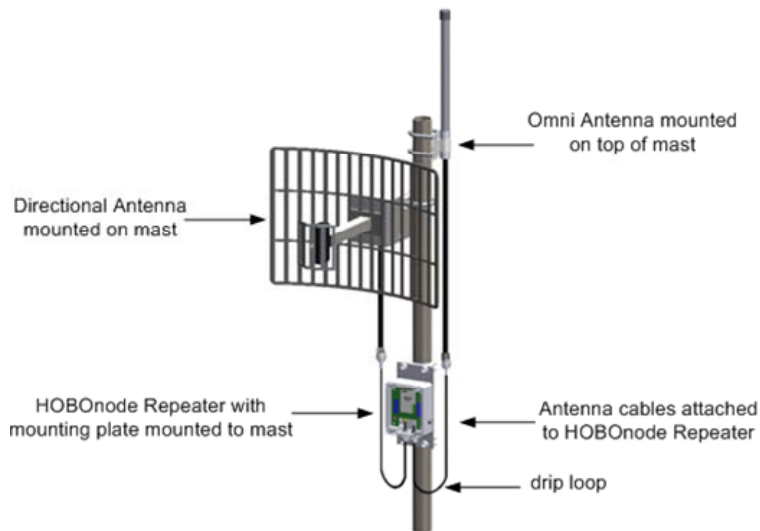


Components

- HOBOnode Outdoor Repeater
- Grease Tube
- Mounting Kit
- Omni-Directional Antenna
- Directional Antenna
- Onset 2 Meter Tri-pod (optional)
- Grounding Kit (required for open field sites prone to lightning)
- Charge Dissipation Terminal (recommended for sites prone to lightning)

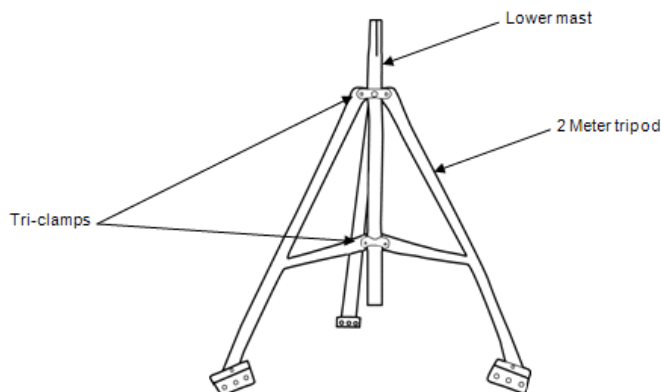
Note: You will also need an additional person to complete Step 9.



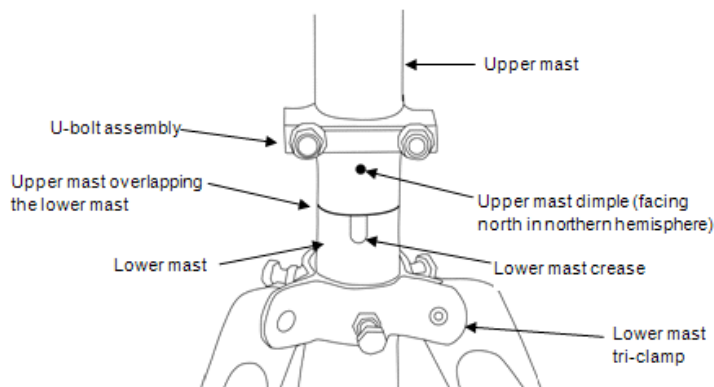
HOBOnode Outdoor Repeater and Antennas Mounted on Tri-pod

Step 1: Assemble Tripod

1. Unfold the legs on the base until the leg braces are horizontal.
2. Screw the bolts loosely into the holes in the tri-clamps.
3. Slide the lower mast through the tri-clamps.



4. Slide the upper mast into the lower mast. Make sure the notch on the upper mast lines up with the groove in the lower mast.
5. Tighten the tri-clamp bolts.
6. Attach U-bolt and tighten.

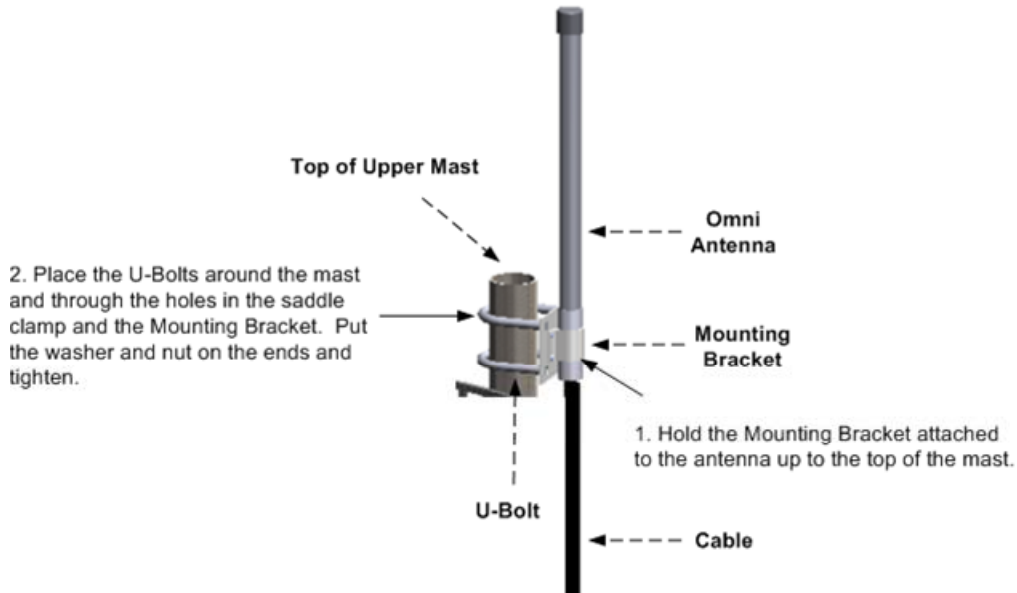


For more details, see the *Tripod Setup Guide* available at www.onsetcomp.com/support/manuals

Step 2: Mount Omni-Directional Antenna

Before you begin:

- Remove all parts from the box
- Remove the bolts and washers from the U-bolts.



Step 3: Assemble Directional Antenna

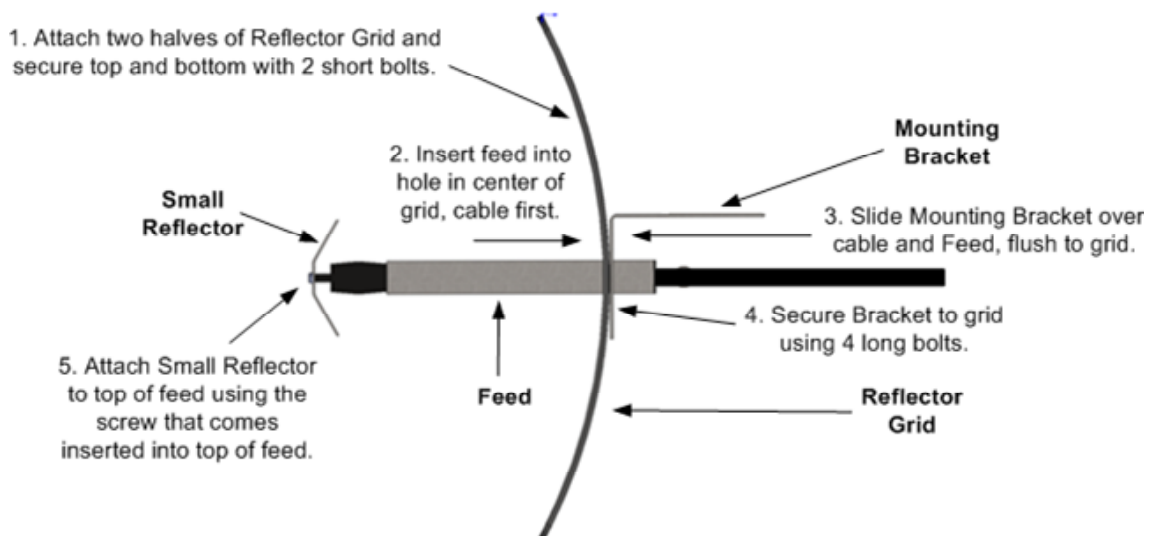
The Directional Antenna is in the white box labeled Antenna-8.

Parts

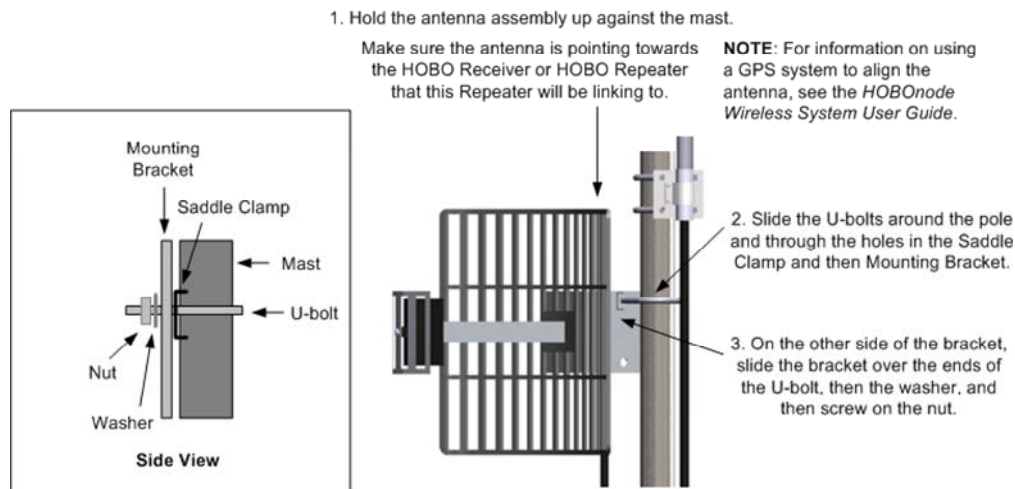
- Reflector Grid (2 halves)
- Small Reflector and 6 bolts (in small white box)
- Mounting Hardware (in bubble wrap)
 - Bracket (1)
 - U-Bolts (2)
 - Braces (2)

Required Tools

5/16" wrench

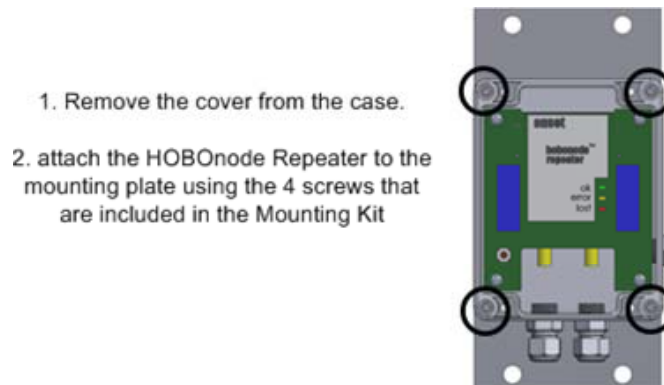


Step 4: Mount Directional Antenna to Tri-pod (or Pole)

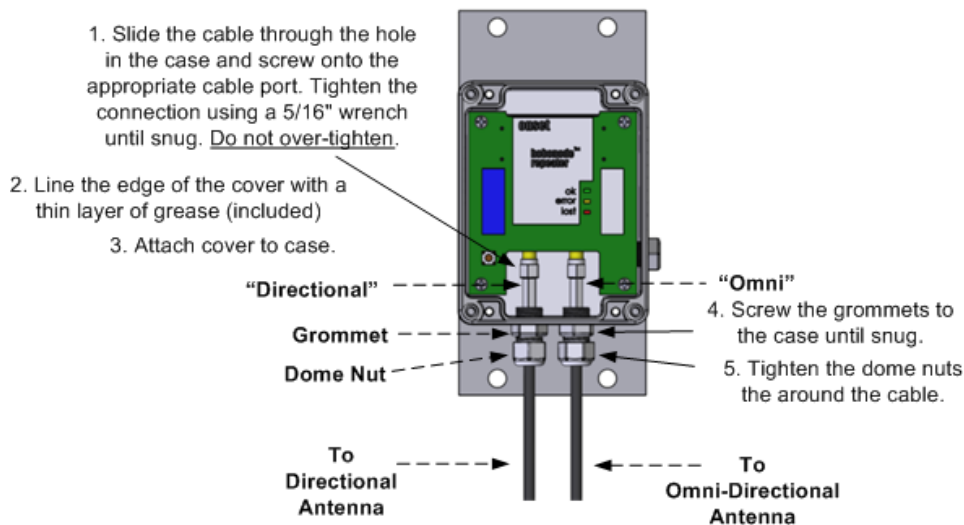


Step 5: Attach HOBOnode Repeater to Mounting Plate

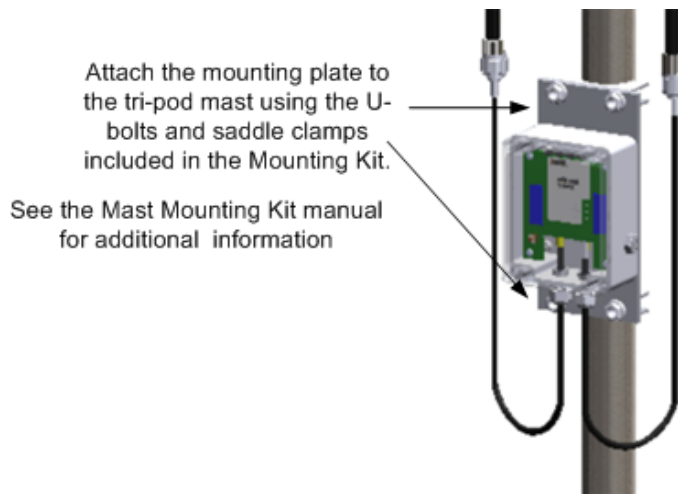
The HOBOnode Repeater comes with a Mounting Kit for mounting the repeater to a tri-pod. See the Mounting Kit documentation for details.



Step 6: Connect Antennas to HOBOnode Repeater



Step 7: Mount HOBOnode Repeater to Tri-pod



Step 8: Link Repeater

Once all of your HOBOnode Repeaters and HOBOnodes are deployed, you must re-link them to the HOBOnode Network. See the *HOBOnode Outdoor Wireless System Quick Start Guide* or the user manual for information.

Step 9: Positioning the HOBOnode Repeater for Reliable Communications

The HOBOnode Repeater must be positioned in a location within range of the HOBOnode Receiver and Sensors, accounting for any possible leaf obstructions or potential weather conditions. To identify the best position for reliable communications:

1. Place the HOBOnode Repeater close to the HOBOnode Receiver to establish initial communication. Check the HOBOnode Viewer software on your computer to verify communication. In addition, the green OK LED on the HOBOnode Repeater will blink if it can communicate with the HOBOnode Receiver.
2. Move the HOBOnode Repeater toward your desired deployment location making sure it is still able to communicate with the HOBOnode Receiver. **Note:** It is helpful to have someone remain at the computer to help you verify communications while you are moving the HOBOnode Repeater in the field.
3. Continue moving it closer to the desired deployment location while checking for communications along the way. If you find the green OK LED stops blinking once you reach your desired deployment location, then move it back to the last location where communications were stable in your testing.

Step 10: Installing a Grounding Kit and Charge Dissipation Terminal

To prevent damage from lightning, the mast or tri-pod with the HOBOnode Repeater must be grounded when deploying it in an open field. Use a Grounding Kit or equivalent materials. **Important:** Do not install a grounding rod until you have completed Step 9 and located the optimal position for the HOBOnode Repeater to communicate with the HOBOnode Receiver.

In addition, for deployments in open fields, it is recommended that you mount a charge dissipation terminal on a pole near the HOBOnode Repeater to reduce the chances of a lightning strike in the immediate area. Mount the charge dissipation terminal on a separate pole higher than the highest point of the HOBOnode Repeater antenna. One resource for charge dissipation terminals is http://www.allteccorp.com/resources/brochures/TerraStat_Brochure.pdf.