

095049-000 Revision K, May 2016

Pipe Mount Kits

DB365-OS and ASPR616

GENERAL INFORMATION

The DB365-OS and ASPR616 pipe mount kits consist of two clamps that are designed for the purpose of mounting aluminum base station antennas to round (Figure 1) or angled (Figure 2) tower legs. These clamps can be used on round tower legs measuring from 1.25 inches to 3.5 inches O.D. or on angled tower legs measuring up to 3 inches on a side.

The center section of each clamp is welded to provide mechanical stability and all parts are hot-dipped galvanized steel (Figures 1 and 2).

To provide added protection against harsh weather conditions and ease of future removal, it is recommended that a release lubricant or similar substance be applied on the threaded portions of the mounting clamps.

These antennas are grounded through the mount, therefore; a clean ground to the tower leg or support pipe is required at the attachment point.

Avoid strain on cable connections while assembling and installing the antenna.

INSTALLATION INSTRUCTIONS

1. **For upright mount only:** (When applicable) Remove the drain plug screw located beside the connector at the base of the antenna. The drain hole must remain clear of any obstructions. Do not remove the drain plug screw at the top of the antenna (Figure 4). Proceed to step 3.

PRE-INSTALLATION INSPECTION

1. After removing the antenna from the shipping box, ensure that all parts are on hand and there is no physical damage.
2. Check the antenna feed assembly output connector to determine that it mates with the end of the station transmission line. Do not remove any connectors or cables from the feed assembly as they are all part of the antenna.
3. Verify that the frequency or range to which the antenna has been tuned matches the operating frequency of the station equipment (see the packaging and the bottom of the antenna for frequency information).
4. A check of the antenna VSWR as measured at the antenna is recommended at this point. Note this measurement carefully and record it for future reference.

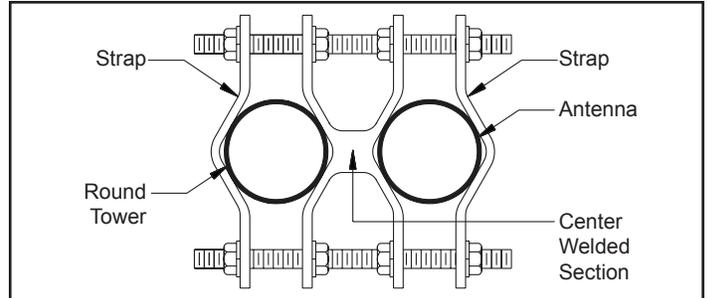


Figure 1. Mounting on Round Tower Legs.

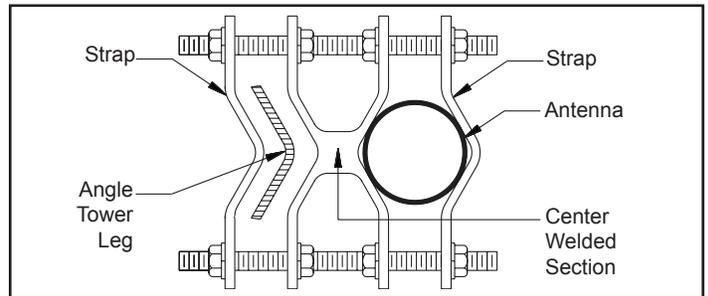


Figure 2. Mounting on Angle Tower Legs.

SAFETY NOTICE

The installation, maintenance, or removal of an antenna requires qualified, experienced personnel. CommScope installation instructions are written for such installation personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment.

CommScope disclaims any liability or responsibility for the results of improper or unsafe installation practices.

It is recommended that transmit power be turned off when the field installation is performed. Follow all applicable safety precautions as shown on this page

(continued on page 2)



Do not install near power lines. Power lines, telephone lines, and guy wires look the same. Assume any wire or line can



Do not install on a wet or windy day or when lightning or thunder is in the area. Do not use metal ladder.



Wear shoes with rubber soles and heels. Wear protective clothing including a long-sleeved shirt and rubber gloves.

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2. **For inverted mount only:** (When applicable) Remove the drain plug screw located at the top of the antenna (Figure 4). The drain hole must remain clear of any obstructions. Do not remove the drain plug screw located beside the connector at the base of the antenna. Proceed to step 3.
3. Preassemble as much of the mounting hardware as possible to the antenna while on the ground. If hoisting the antenna to the top of the tower or structure attach a rope to the mounting hardware at the bottom of the antenna and then make a slip knot loop of the rope at the top of the antenna. The slip knot loop will keep the antenna vertical when hoisting the antenna. For safety, an additional rope could come off the bottom of the antenna and be used as a guide by someone else on the ground.
4. Securely attach the antenna to the mast or tower using the two DB365-OS or ASPR616 clamps provided (Figures 3 and 4). Do not overtighten the clamps; doing so will weaken the installation.

The antenna must be mounted as close to vertical as possible.

5. After the antenna is secured, route the RF feed cable (not supplied) from the station equipment and attach it to the antenna. Make the connection snug, but do not apply heavy force with pliers. Andrew recommends torquing the connection to the correct torque value.

The use of a flexible pigtail (not supplied) with a mating connector is highly recommended when connecting the transmission line to the antenna. The use of a pigtail will help relieve strain on the connectors caused by flexing, expansion, and contraction of the cable.

6. To avoid moisture problems, carefully weatherproof all connections, covering all cracks and the outer jacket of the transmission line. Failure to waterproof the connection may result in improper operation of the antenna.

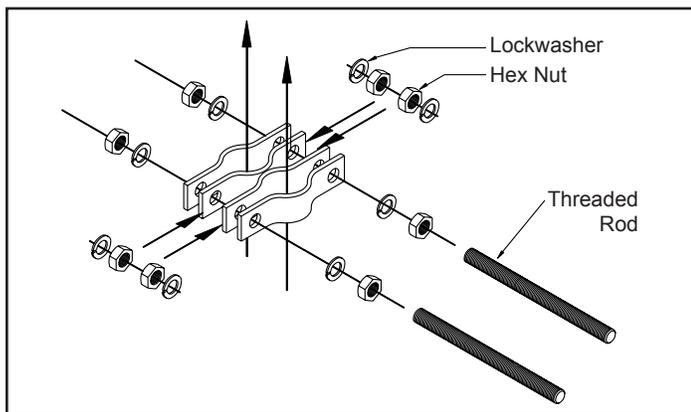


Figure 3. Mounting Clamp Hardware.

7. Properly secure the feeder cable and transmission line to the tower in the best position to avoid physical damage to the cable.

POST-INSTALLATION INSPECTION

After the antenna and transmission line have been installed, a careful visual check should be made to ensure that:

- a. All mechanical connections have been made;
- b. The antenna is mounted as close to vertical as possible;
- c. The proper mount was achieved — either upright or inverted;
- d. The drain hole is clear of all obstructions;
- e. All connections have been carefully wrapped to prevent moisture problems.

Tighten all fasteners.

Torque:

1/2–13 = 516 IN-LBS (58 N-M)

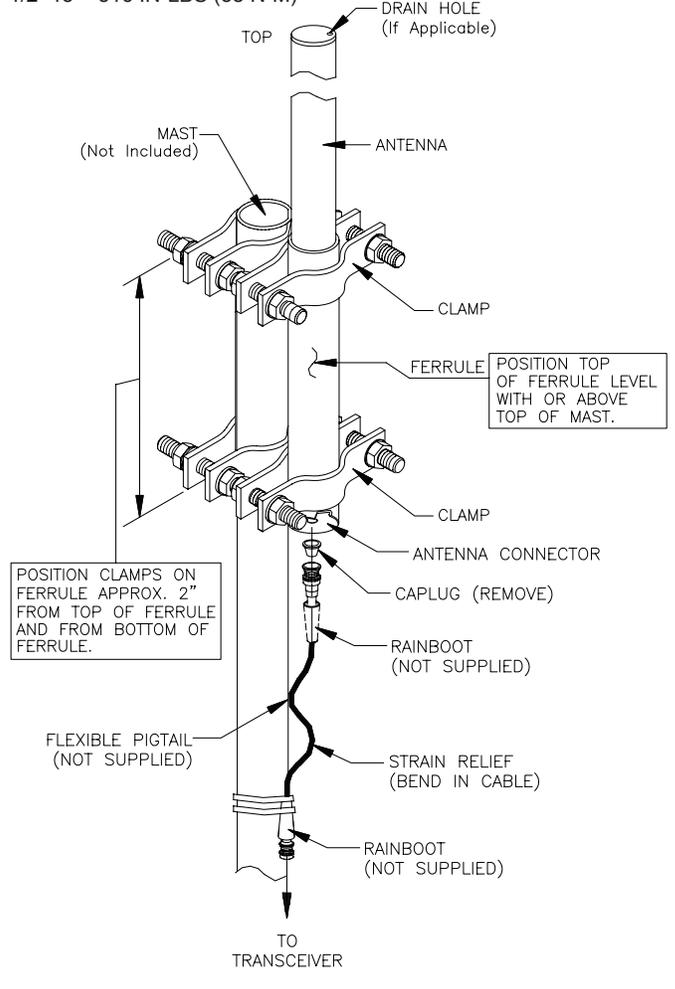


Figure 4. Upright Mounting of Antenna.