



August 2010

ASSEMBLY INSTRUCTIONS v5

Add Band Kit to the G3TXQ Broad Band Hexagonal Beam by K4KIO

The Add Band kit consists of the following:

- Pre-tuned wire and tip spacer assembly ready to install on your hexagonal beam
- Six stainless steel spreader clamps and P clips to attach the wire set to the spreaders
- New center post (if required) equipped for new bands added plus existing bands
- Illustrated detailed instructions for installation

Steps to install

Center post (applies only if center post must be replaced)

1. Remove all wires from terminals on the existing center post.
2. Remove the screws holding the cap to the center post. Allow the cords to remain attached to the cap and in position with the support cords attached. This will keep the spreaders bent and allow you to disconnect the wires without them being pulled out of position on the spreaders.
3. Loosen the two set screws on the base plate flange at the bottom of the old center post and then remove the old center post. The support cords are attached to the old center post cap which will hang in mid air for a few moments.
4. Insert the new center post and tighten the two set screws on the base plate flange.
5. Transfer all the cord hooks from the old center post cap to the new center post cap. Alternately, just put the old center post cap into the new center post and use the two screws to fasten it there.
6. Now begin re attaching the existing wire sets to the new center post.

Spreaders

1. Mark the spreaders for the location of the new spreader clamp using the measurements of Figure 1. Remember these will be preliminary only.
2. Install the new clamps and p clips at the marked locations.

Wire set

1. Loosely attach one of the wire set lugs to a center post terminal for the new band.
2. Begin threading the wire set through the newly installed p clips on the spreaders around the center post until you get back to the terminals as shown in Figure 2.
3. Attach the second wire set lug to the other center post terminal. If it won't reach, then just loosen one of the p clip spreader clamps and let it slide in toward the center enough to allow you to install the wire to the terminal.
4. Tighten the wires to the terminals **being careful not to twist the screws** by using a set of pliers to hold the screws in place as shown in Figure 3.
5. After installing the wire set to the new terminals and tightening them, slide the loosened p clip spreader clamp back out until most of the slack in the wires is gone but do not over tighten the wires. It might be necessary to move the other spreader clamps a little to get them all at about the same distance.

Center post testing

SWR testing

If you have a test set for SWR, test the SWR of the new band before raising the antenna back on the tower or mast. If it is close to the ground (less than 10 feet) the SWR will not be

nearly as low as it should be at the normal operating height but you should be able to see a dip that indicates everything has been installed correctly.

Figure 1.

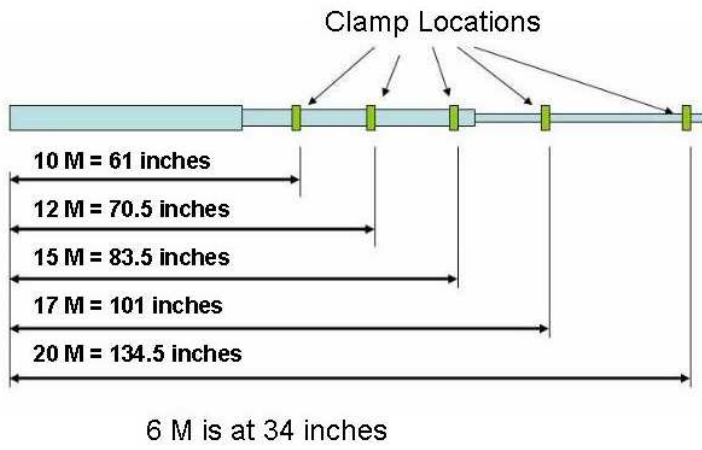


Figure 2.

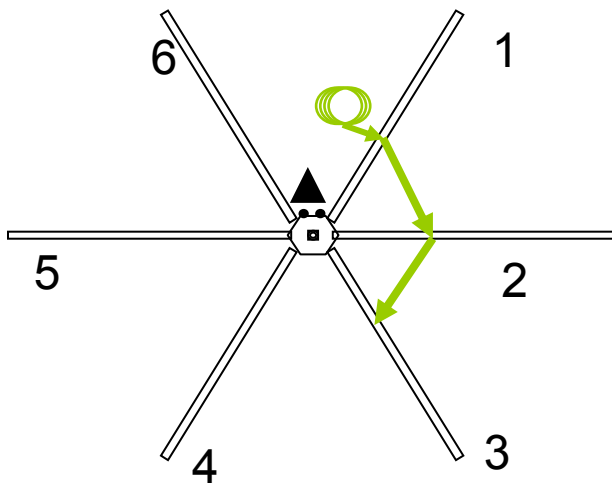


Figure 3.

