

# NA4RR Hexagonal Beam 40M Bent Dipole Add-On

1. Inventory Parts. You should have the following:
  - a. Wire Element Set
  - b. 6 Small (1/2") round fiberglass extension poles
  - c. 2 Small hose clamps
  - d. 12 Medium hose clamps
  - e. 2 Large hose clamps
  - f. 1 Center Post
  - g. 1 Long Kevlar cord with S hooks at both ends
  - h. 2 Short Kevlar cords with S hook at one end and hose clamp at the other.
  - i. 2 1/4" Stainless steel Internal tooth lock washers
  - j. 2 1/4" X 20 Stainless steel nuts

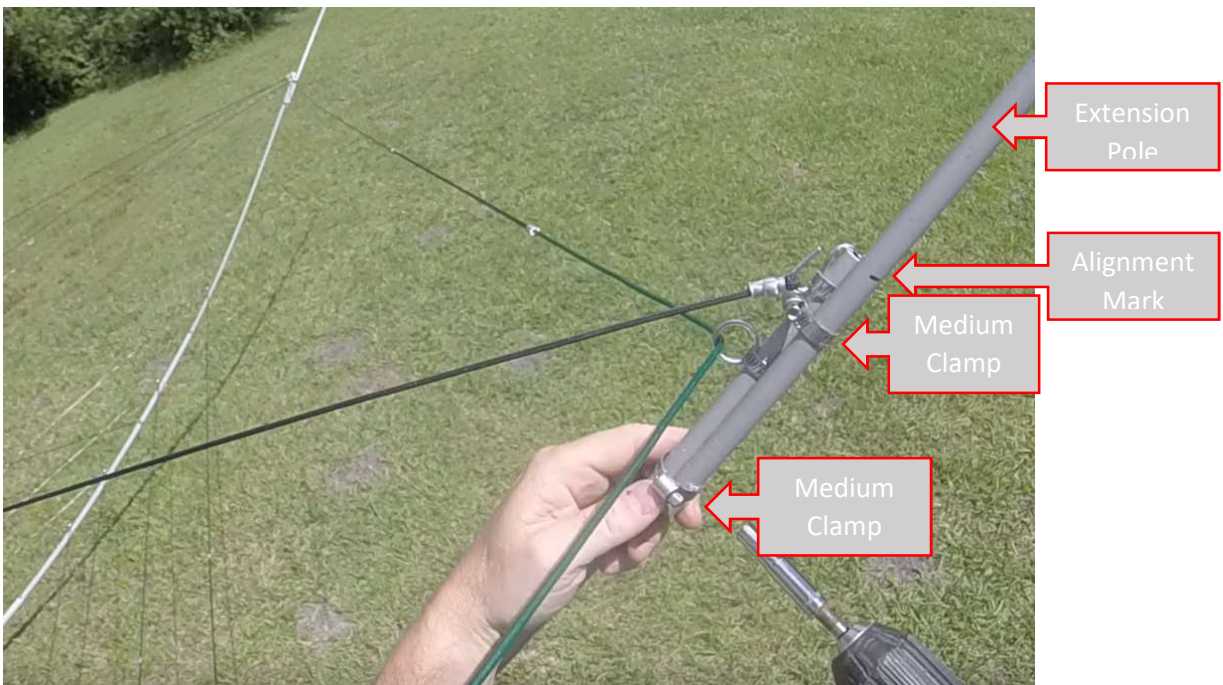


2. Open the large hose clamps (1e).
3. Insure that the Hexbeam is in a location where the baseplate and the end of the support poles can be accessed safely.
4. Place the large hose clamps around the Hexbeam center post between the 17M and 20M studs and just start to tighten the clamps.
5. With the SO239 facing forward and the eye bolt facing the back of the Hexbeam, slide the fiberglass center post into the large hose clamps until the bottom of the center post is just above the 17M posts on the Hexbeam center post and secure in place by tightening the large hose clamps.

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6. Open all 12 of the medium hose clamps (1d).
7. Align one of the round fiberglass extension poles (1b) at the end of the small fiberglass poles of your Hexbeam with the ring away from the Hexbeam. There is a mark on the non-ringed end six inches from the end. That mark should be at the end of your Hexbeam pole.
8. Use two of the medium hose clamps to secure the extension pole to the existing Hexbeam pole making sure the aluminum ring is pointing up.



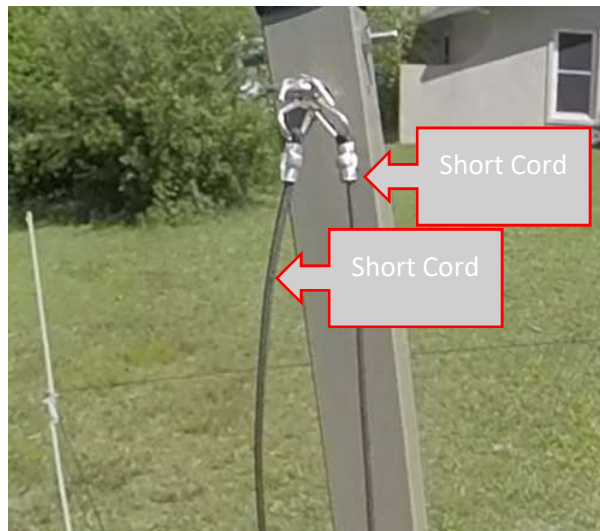
9. Repeat steps 7 & 8 with the remaining 5 round fiberglass extension poles.

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10. Connect the ends of extension poles connected to the Hexbeam spreaders 1 and 6 with the long Kevlar cord (1g).
11. Secure the Kevlar cord S-Hooks to the ends of the extension poles with the small hose clamps (1c).



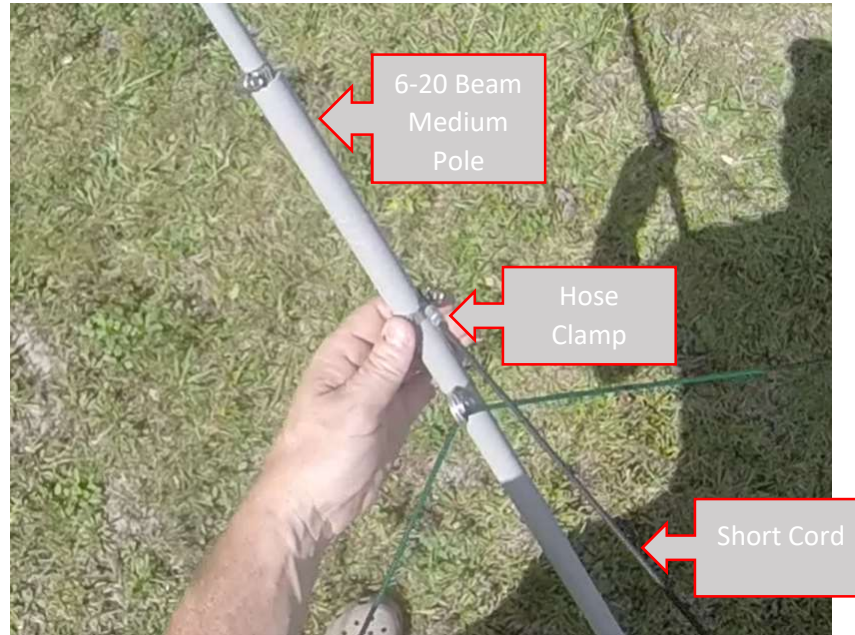
12. Attach the two short Kevlar cords to the Fiberglass center post eye bolt using the S-Hooks. Bend the S-Hooks with pliers to tighten them.



13. Open the hose clamps at the other end of each of the short Kevlar cords.

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14. Attach one of the short Kevlar cords to the medium Hexbeam support pole #3 using the loosened hose clamps pulling the cord until it is just snug and the center posts are perpendicular to the baseplate.



15. Repeat step 14 with Hexbeam support pole #4.
16. Uncoil the wire elements. I like to start with the wire uncoiled between spreaders 4 and 4.
17. Thread the wire elements through the rings at the end of the fiberglass extension poles following the same path as the Hexbeam elements.
18. Attach one ring terminal to one of the center post studs and secure with the included lock washers (1i) and nuts (1j).
19. Secure the other ring terminal to the remaining stud on the center post. The wire elements should be taught but not so tight as to deform the geometry of the fiberglass poles. While running the wire some of the fiberglass poles may become out of alignment. If so gently slide the wire through the rings until the pole is straight again. If the elements are not taught you can adjust by loosening the hose clamps holding the rings and sliding the rings out or in as required.
20. Gently tighten the nuts to secure the wire elements to the center post.
21. Return Hexbeam to your mounting location.

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22. Attach feedlines to the Hexbeam center post.
23. Attach feedline to the dipole center post.
24. Use a multi-meter to test for shorts across the center conductor and shield of your Hexbeam feed line. There should be NO short
25. Use a multi-meter to test for shorts across the center conductor and shield of your dipole feed line. There should be NO short
26. Get on the air.
27. Tell all your contacts how happy you are with your NA4RR 40M Add-On.
28. Send us an e-mail and let us know how you like the add-on.