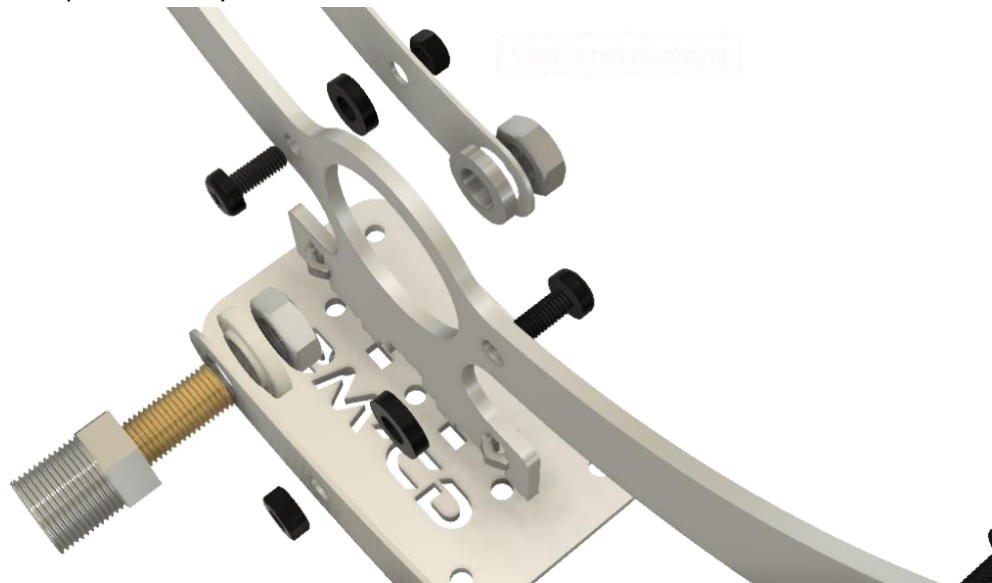


# Antenna Crafter 2M-CD Quick Assembly Guide

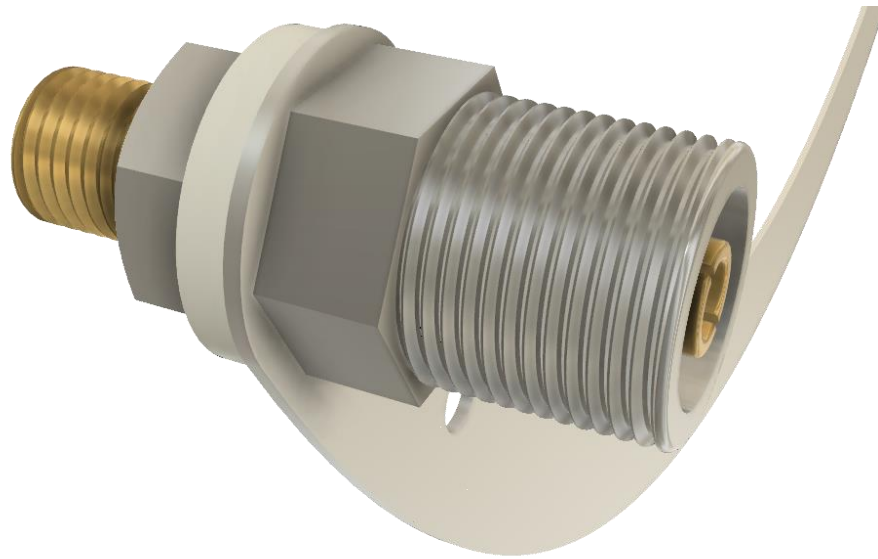
Thank you for purchasing the 2M-CD 2 meter folded circular dipole, the ideal choice for an indoor, in room antenna. This antenna should work well on your desktop, bookshelf or windowsill.

NOTE: Do NOT remove the black heat shrink from around the 3/8" stud on the SO239 connector, it is there to assist in making assembly virtually foolproof.

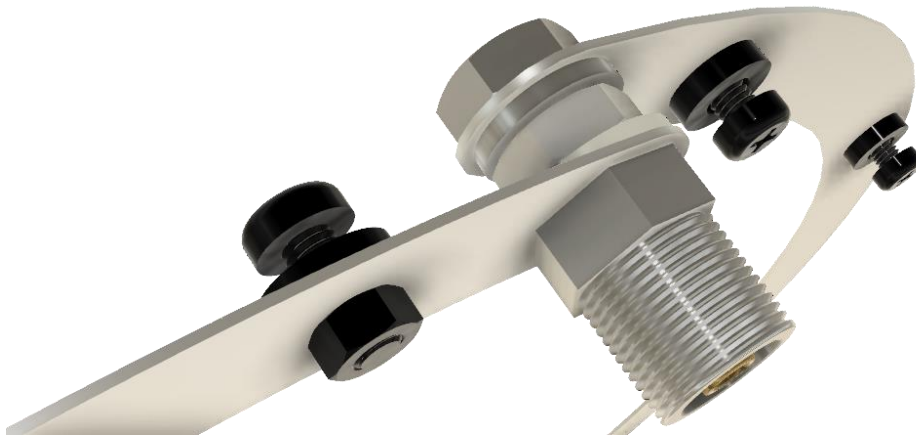
First photo showing exploded view of the feed point assembly. Note the heat shrink is not depicted in the photo, however it is important that you do not remove it.



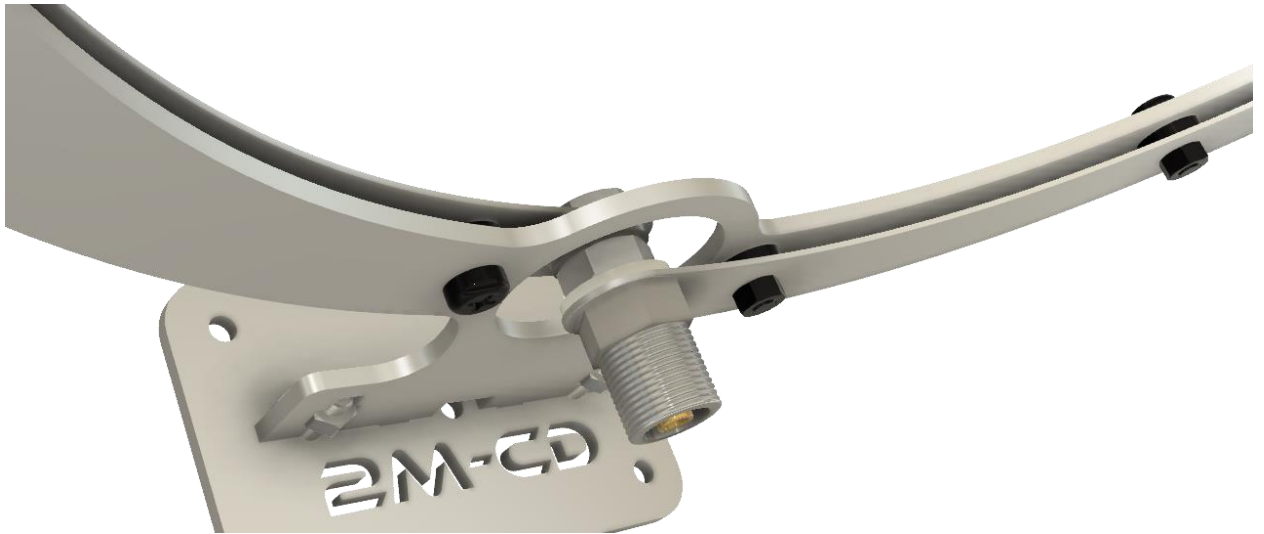
- 1) Upon inspection of the two elements, you should notice that they are almost identical with the exception of the round hole at one end. The element with the larger hole is the one you will want to mount on to the stud first. Followed by the white insulating "washer" slide the element and plastic spacer over the black heat shrink. It may be tight, but with a little patience and light twisting, it will go.
- 2) Making sure that the white spacer is centered on the stud, keeping the element centered on the small protruding rim, snug it all together with one of the supplied 3/8" hex nuts. Just slightly over hand tight is good. The assembly should look like the next photo



- 3) Next place the stainless washer on the stud, next to the hex nut, followed by the other element with the smaller hole. Using the remaining hex nut, complete the feeder point assembly, keep this nut loose for now. The connector and elements should look like the following photo, less the black plastic fasteners and spacers.



- 4) At this point snake the above assembly through the big hole in the “main” element such that your antenna appears similar to the next photo:



- 5) At this point insert the 6 black plastic screws, spacers and nuts into the holes such that there is a screw through on element, then a spacer, followed by the next element, then a nut holding it all in place. Do not tighten the nuts until all are installed, 3 on each side starting from the connector working upward. As in the photo above.



- 6) As in the previous step, but now using the conductive components stainless steel components. Take 1 of the 2 stainless steel Pan Head Phillips 12mm screws and place it through one side of the antenna's slotted holes, carefully sliding in a aluminum spacer between the elements, followed by a stainless M5 hex nut on the other side holding it all together, do not tighten yet.
- 7) Repeat step 6 with the other side of the antenna.
- 8) With everything aligned, go back and tighten the 6 plastic screws and nuts, hand tight is good. Do not over tighten as it is only plastic.
- 9) Using appropriate wrench, now tighten the 3/8 hex nut on the SO239 so that is snug making a good connection both mechanically and electrically.
- 10) Mount the base plate using the remaining 2 Flat Head Phillips screws and nuts. This can be a little tricky but not hard. Slip the baseplate over the guide nubs on the element, carefully place a

nut in the designated opening, keeping it centered, thread the screw through the bottom plate into the nut, and repeat with remaining hole. Tighten screws. See following photo.



11) Find a location where you think the antenna will stay, preferable not too close to conductive items. At this point you can fine tune the antenna for the best SWR. You can choose the middle of the 2M band, but ideally if you frequent a specific portion of the band, choose a frequency in the middle of that section. Tuning is easy but again may take some trial and error. To tune this antenna you simply adjust the two screws/spacers/nuts at the top of the loop in the slot. **IMPORTANT** these tuning screws should remain symmetrical. In other words, if the one on the right is at the center of the slot, the one on the left should also be in the center of its slot, keep them balanced. If they shorting spacers are at the bottom of the slot, this would coincide with a higher frequency, and on the contrary if the screws/shorting spacers are at the top of the slot, this should coincide with being lower in frequency. Everyone's experience will slightly different as your environment will affect tuning. Test, adjust, test again. Once you found your sweet spot, lock the screws and bolts down, and enjoy.

If you have any issues, questions or suggestions, I am only an email or phone call away. I really appreciate and value your business, so your satisfaction is my goal.

73 Bob Leschyna VE3UK

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