

## FINAL ASSEMBLY AND TUNING

1. Fit the feedpoint parts together as follows: insert Dimension D length of wire into the hole opposite the screw on clamp “A” so that the tip is flush with the inner surface of the clamp, and solder it into place with the soldering iron, making sure to get a good bond.
2. Slide clamp “A” onto the LONG end of the J-pole (Dimension A in the diagram on page 1).  
DO NOT solder it to the pipe. Also, do not tighten it into place yet.
3. Slide clamp “B” onto the SHORT end of the J-pole (Dimension B in the diagram on page 1).  
DO NOT solder it to the pipe. Also, do not tighten it in place yet.
4. Make sure that the feedpoint clamp with the connector is on the SHORT length of the J-pole’s pipes, and the small feedpoint clamp with one screw is on the LONG length of pipe.
5. Insert the free end of the Dimension D wire into the dimple on the SO-239 or N connector. You will probably need to use pliers to carefully bend the large clamp between the connector and the two screws until the wire points straight into the dimple on the connector, not at an angle. Once this is done, make sure the free end of the wire is as far into the dimple as it will fit, then solder it firmly into place. It should look like the one in the photo below.
6. Place the copper end caps onto the ends of pipe segments A and B, then use the propane torch to solder them in place.
7. Finger tighten the three screws and hex nuts on both of the feedpoint clamps.
8. Clamp the base pipe of the J-pole in the bench vise.
9. Connect an SWR analyzer to the SO-239 or N connector and set it for the center frequency of the J-pole.
10. Nudge the pair of feedpoint clamps up and down the J-pole until the lowest SWR at 50 ohms is attained. Be careful to stay at least 3 feet away from the J-pole while it is being tuned, because the human body contains salt and water which can result in an inaccurate SWR.
11. When the lowest possible SWR at 50 ohms has been attained, use the screwdriver and lineman’s pliers to tighten the feedpoint clamp screws into place. The J-pole is now ready to use for transmitting.

