

80 Meter Coil Assembly



Parts:

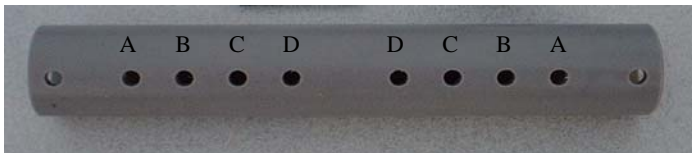
PVC coil form, light gray (1)
Aluminum end caps (2)
8-32 x 3/8" stainless Phillips screws (4)
#8 internal tooth lock washers (4)
#8 ring terminals (2)
#22 Enamel insulated copper wire (red)

The coil is assembled using the 2 larger end caps, the larger light gray PVC coil form and 4 of the 8-32 x 3/8" screws. Four #8 lock washers and 2 #8 ring terminals are used. Two lock washers go on one side to secure the screws and the 2 ring terminals are used for connecting the coil windings.



Insert the end caps, align the screw holes and insert the screws.

Once the end caps are installed,, the coil is ready for winding.



The coil form showing holes to secure windings. For 80M hole set "A" will be used.

| Band Meters | Turns to wind | Hole set(see photo) |
|-------------|---------------|---------------------|
| 80 | 145 | A |

Start by winding 145 turns on the coil. This should almost entirely fill the space between the hole set (A) At this point, you may prefer not to solder one end of the coil. This will allow adjusting the coil without unsoldering. Once you are happy with the coil you may choose to crimp or solder the wires to lugs or leave as is.



The Completed 80 meter coil

Set up the PAC-12 antenna with radials and the 80M coil in place and check the SWR using a bridge or analyzer. Collapse the whip sections until minimum SWR is achieved. If more than one full section is collapsed, then remove a turn or two from the coil and repeat the test. I recommend tuning so that approximately one half of a telescoping whip section is collapsed at the low frequency end of the band. To go to higher frequency, simply collapse the whip a bit as necessary to achieve a match.