January 18, 2017

Dear Jerry,

Here is the 160/80m loop. I tuned the loops for 3.525 and 1.830 respectively. Because some loops have arrived at their destination scratched and a little beat up. I've elected to disassemble them a little bit more and wrap the arms in paper. You will have to insert the RG-59 through each spreader. Then place the boots onto each length of coax, then screw the type "f" connectors on each end. You will be able to see where the type "f" connectors go, as that I had the loop assembled to tune it. When I added the type "f" connectors, I took great care to make sure that the braid didn't touch the center conductor. However, when reinstalling the type "f"'s sometimes a wire from the braid will touch the center conductor. If you are hear absolutely nothing on the loop, the type "f" connector would be the first place to check. If you want to change the 80m loop to 3.795 , please follow the instructions below. The usable frequency range before you need to retune them is about 50khz either side of the tuned frequency. The 80m loop is little sharper, bandwidth wise. If you need to retune either of them. (such as 1.850) Remove the harness. Remove the 4 philips screws that hold the box together. The connect a receiver/transceiver to the loop you wish to retune. Set the frequency on your receiver/transceiver, peak the trimmer for maximum band noise. DO NOT apply rf to the loop. It will damage the loop and possibly your transceiver. So people have tried to retune the loops with the MFJ antenna analyzer. However I've found that a 1 to 1 swr doesn't necessarily mean the loop is at peak efficiency. Tuning for max band noise seems to be the best method. I've also found that using a preamp at least for the 80m loop also increases it's efficiency . The 160 loop can get away, without one. However I use a preamp on both. If possible, place the loop as far away from the transmit antenna. On 2 receiver radios, such as the FT-1000mp, the transmit antenna will introduce some noise into the loop. I've disassemble the loop just enough to ship it. You will have to put the arms in the "tee" (the unpainted part of the pvc is the top.) connect the cables, (7/16 (approx 10mm) is the size of the type "f"'s), connect the harness between the 2 boxes, and add your receive cable and you should be all set. Let me know how you make out, if you need help, please don't hesitate to contact me . Thank you for allowing me to build you a receiving loop.

73

Spencer KC2TX