

# QRPme's Tuna Helper Kit

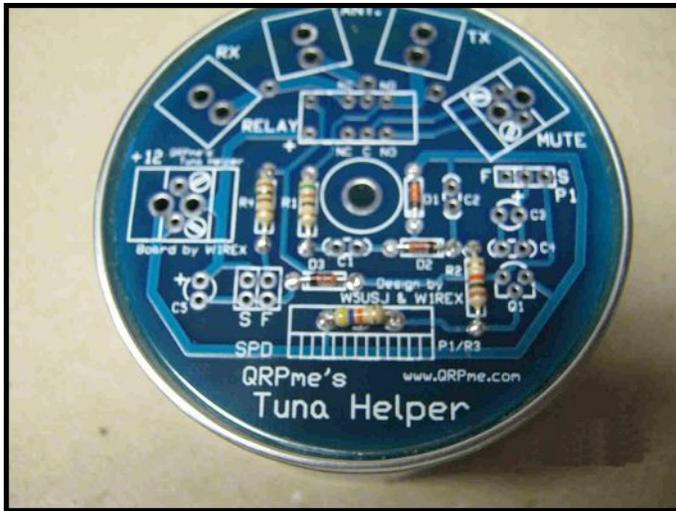


Pull the tab, open the can and survey the parts...



I have a special tuna can rigged for holding the parts of my current kit under construction.





Install the low parts:

Diodes:

D1,D2,D3: 1N4148 or  
1N814A

Resistors:

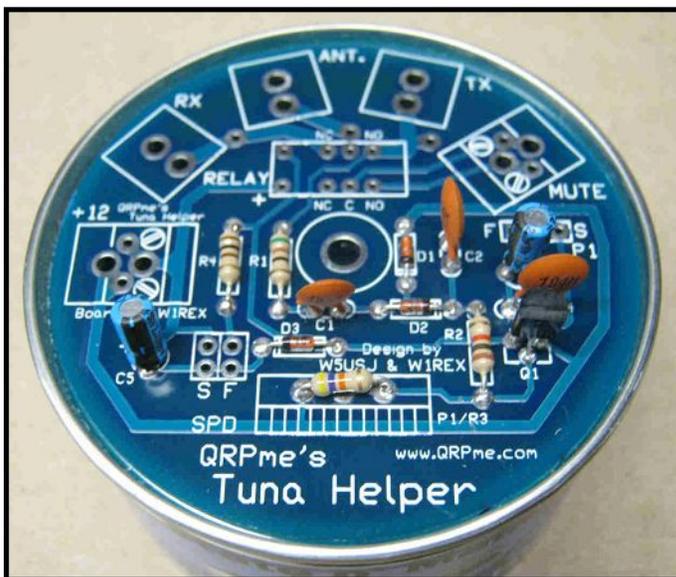
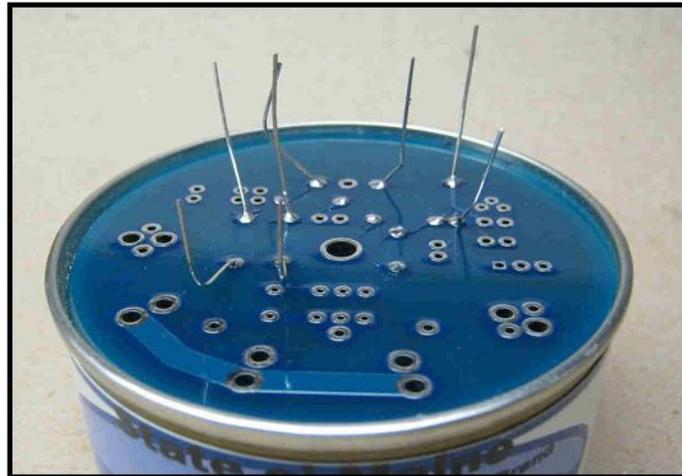
R1: 51 ohms (GRN BRN BLK)

R2: 1K ohms (BRN BLK RED)

R3: 47K ohms (YEL VIO ORG)

R4: 100 ohms (BRN BLK BRN)

You can batch solder parts for quicker assembly. I insert 3 or 4 parts, spreading the leads apart to keep them in place when the board is flipped over. I place the board on the can for stability. Solder and clip off the excess leads...



Now add the capacitors.

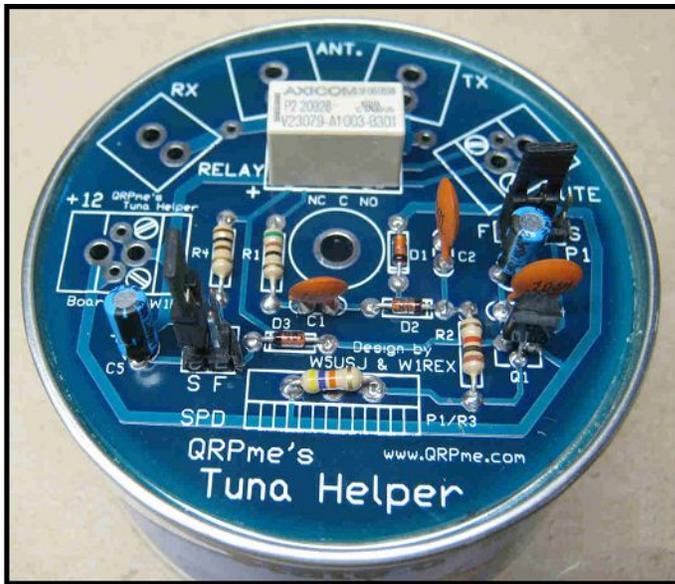
C1: .01uf (103)

C2,C4: .1uf (104)

C3,C4: 2.2uf

and the transistor.

Q1: 2N2222A



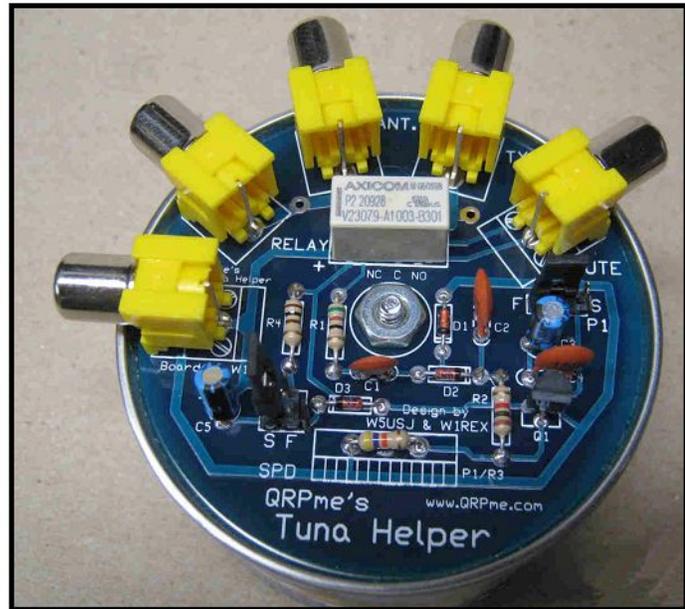
Tall stuff like the relay and connectors are next.

P1: 3 pin x .1" spacing header  
SF: 2x2 x.1" spacing header

Relay: Axicom DPDT

Now add the bulky connectors. I use all RCAs in my tuna station; but supply a 2 pin screw terminal connector for the power connector if you want to run wires....

The board is now finished and is mounted on the can and secured with the bolt & nut.



Your Tuna Helper is now ready to automatically switch your antenna between the transmitter and receiver! I use RGB component video cables to hook it up in my station.

ENJOY!