Upgrading from a KANT4 to a KAT4

1. Start by removing the top cover. There are ten black flathead screws to remove to get the cover off; eight screws on the top and one on each side. Be careful about the wire for the speaker; it's short and should not be tugged.

2. The KANT4 board is located in the right rear corner of the K4, near the SO239 connector.
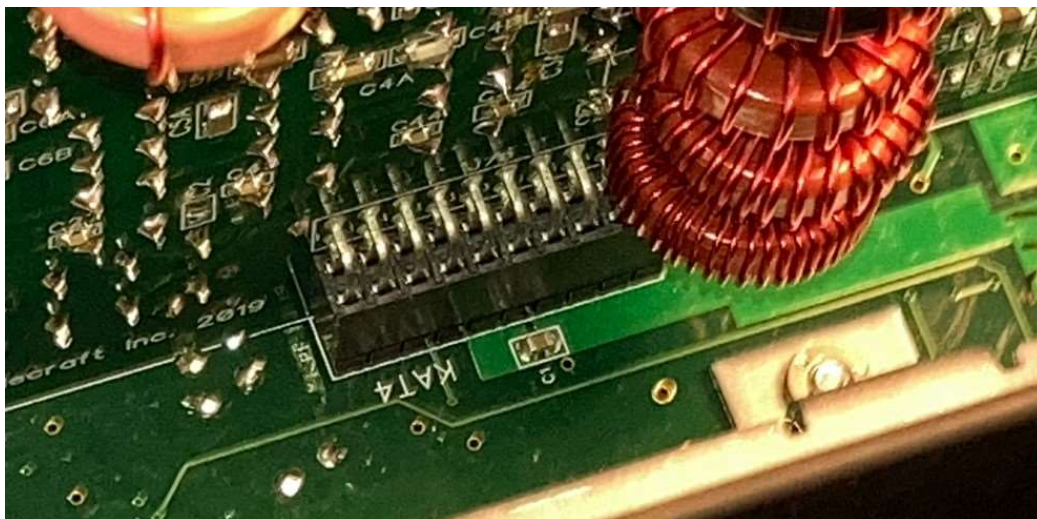

3. Remove the single screw that secures the KANT4 to the right side chassis and disconnect the two gray wires that are connected to the KANT4 board.

4. Gently rock the KANT4 board and pull it out of the radio and set it aside.

5. Now add the two additional SO239 connectors from the inside of the radio. They are installed using four black flat head 4-40 screws and four 4-40 nuts with lockwashers per connector. Mount the SO239 with the shorter wire in the ANT2 hole, and the SO239 with the longer wire in the ANT3 hole.
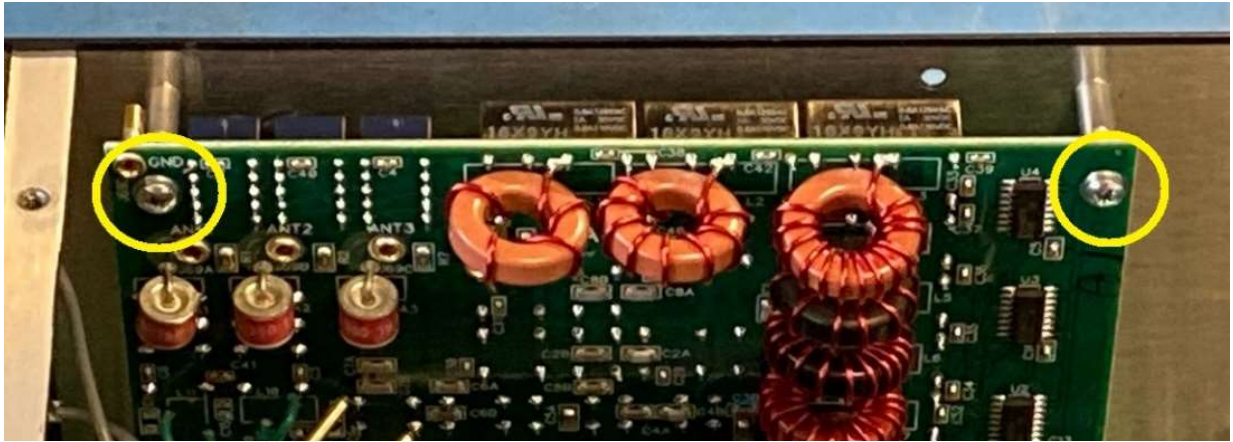
    Pro tip: Stand the K4 on its right side (with the bumpers) so if you accidentally drop one of the nuts it won't go down a hole into the underside of the RF board (lots of extra work removing the bottom cover to find it).
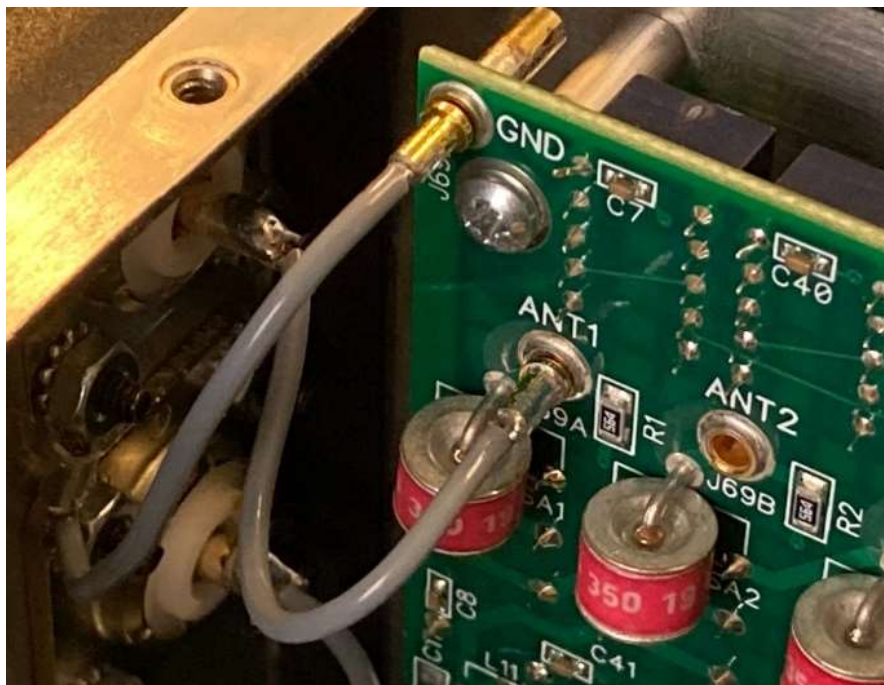

6. Next, take your new KAT4 board and insert it into the space vacated by the KANT4. Make sure the connector is correctly positioned on the "KAT4" connector of the RF board below it.

7. Secure the KAT4 board with the two zinc screws in the holes shown below circled in yellow. If the screws don't go in easily, you should check the alignment of the board in the connector. It may be offset in one direction.
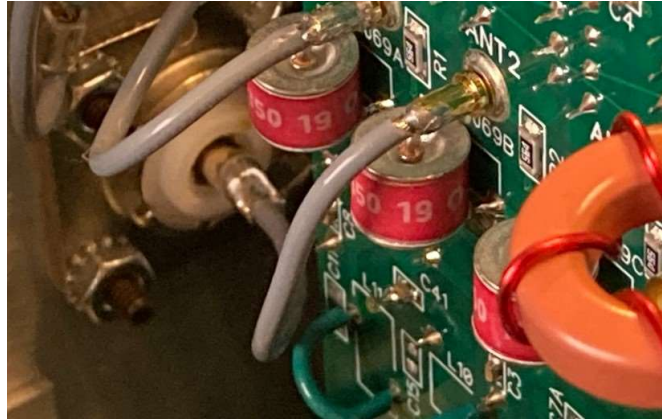

8. Now connect ANT1's center wire to the "ANT1" socket on the KAT4, and the ground wire to the "GND" socket.
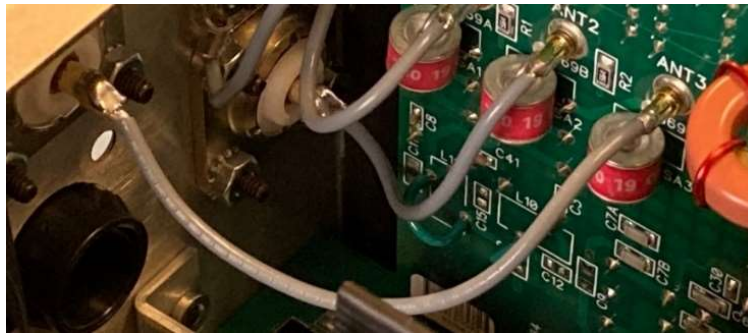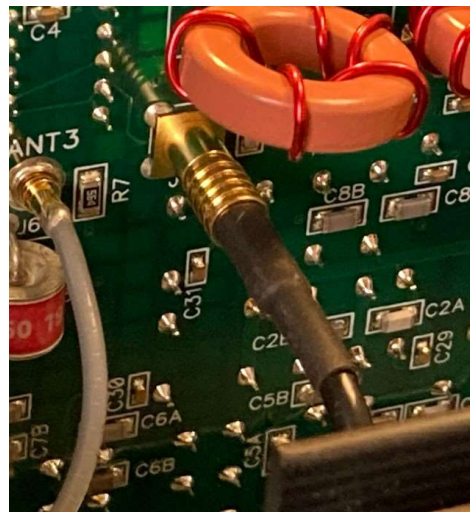
9. Then insert the wire from the ANT2 SO239 to "ANT2".

10. Finally, insert the wire for ANT3.

11. Locate the black cable with the gold connectors on each end. One end has a straight MCX connector, the other has a right-angle MCX connector. The straight end goes into the gold connector on the KAT4 labeled "J4", next to "ANT3".

12. The right-angle MCX end is inserted into a connector on the main board below, into a jack labeled "Non-TX ANT" located between the two fans and the KPA4 (black heatsnk).

13. You may now replace the top cover of your K4. Be sure to reconnect the speaker wire to the two pin connector via the chassis hole on the top far right of the front panel.

14. Secure the cover with the ten screws you removed in step 1.

15. Power on the K4 and go into the menu. Scroll until you see an entry for the KAT4. Change the setting to "AUTO" and exit out of the menu.

16. Connect up to three antennas to your K4 and tap the "ATU TUNE" button on the far left to verify all is well. Select a different antenna using the "ANT" button and tune again.

17. Congratulations, you're all set. Now read the built-in manual of the K4 to learn how to label each antenna with a name that tells you exactly what is connected.