

## Kenwood TS-590 TX modification

The E version (Europe) has no TX on 5 MHz, but the K version (USA) has 5 MHz TX between 5.250 MHz and 5.450 MHz. According to the service manual (page 120) the difference between E and K version is a jumper (R968) which is installed in E version but missing in the K version.

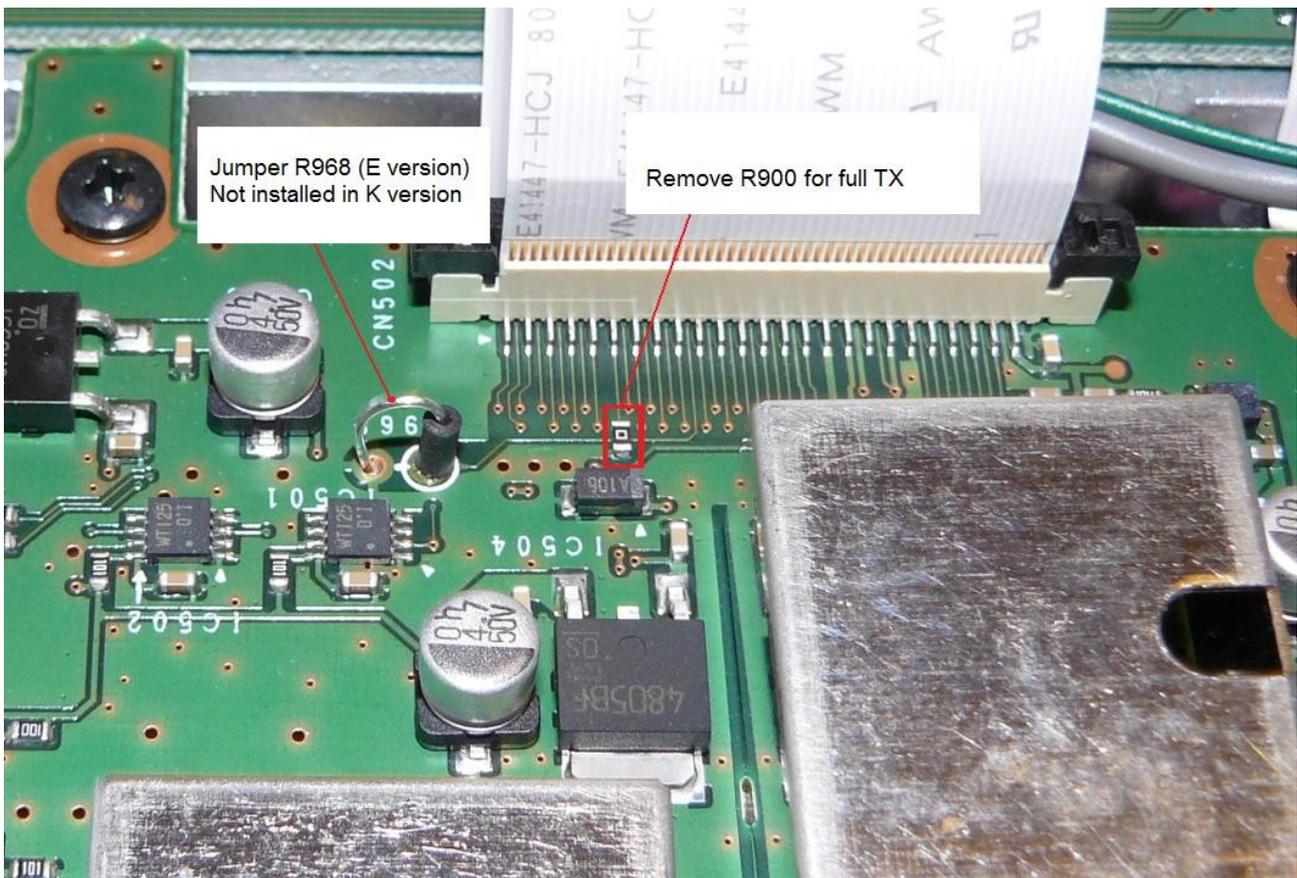
There are 2 possible TX extensions on the E version, either full TX (1.705 – 30 MHz) or just open up 5 MHz (cut the **R968** jumper and make it into a K version).

1. Open up 5 MHz band only on the E version (5.250 – 5.450 MHz)

Remove the bottom cover



Locate the jumpers in the area marked with red (to the left)



Locate **R968** and use a small wire cutter and cut the wire loop. Make sure the ends are separated by a few millimeters.

Assemble radio.

Do a full reset by holding A=B [A/B] button and turn radio ON. Press A=B [A/B] again.

You should now have 5 MHz TX, and also a bit more TX extension on 160m, 80m, 40m and 6m (the same as a K version).

2.

Or one can open up to full TX (1.705 – 30 MHz) on both E and K version by removing the tiny **R900** SMD (surface mounted 0-ohm jumper). See picture above.

Remember that the R900 SMD jumper is VERY small, so removing it requires small tip soldering equipment. Do not try this if you are not familiar with surface mounted soldering ! It is better to have a qualified radio technician to do this in stead of damaging the PCB, that can end up being extremely expensive !

Remember to do the full reset procedure after removing R900

Good luck !

Note: I take no responsibility if someone destroys their radio by doing this modification.  
LA4AMA - Roar