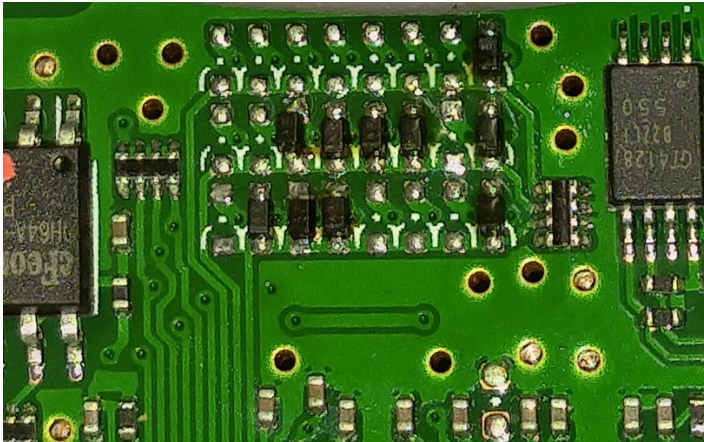


ICOM IC-7300 (U.S. version) modification by UN8GC

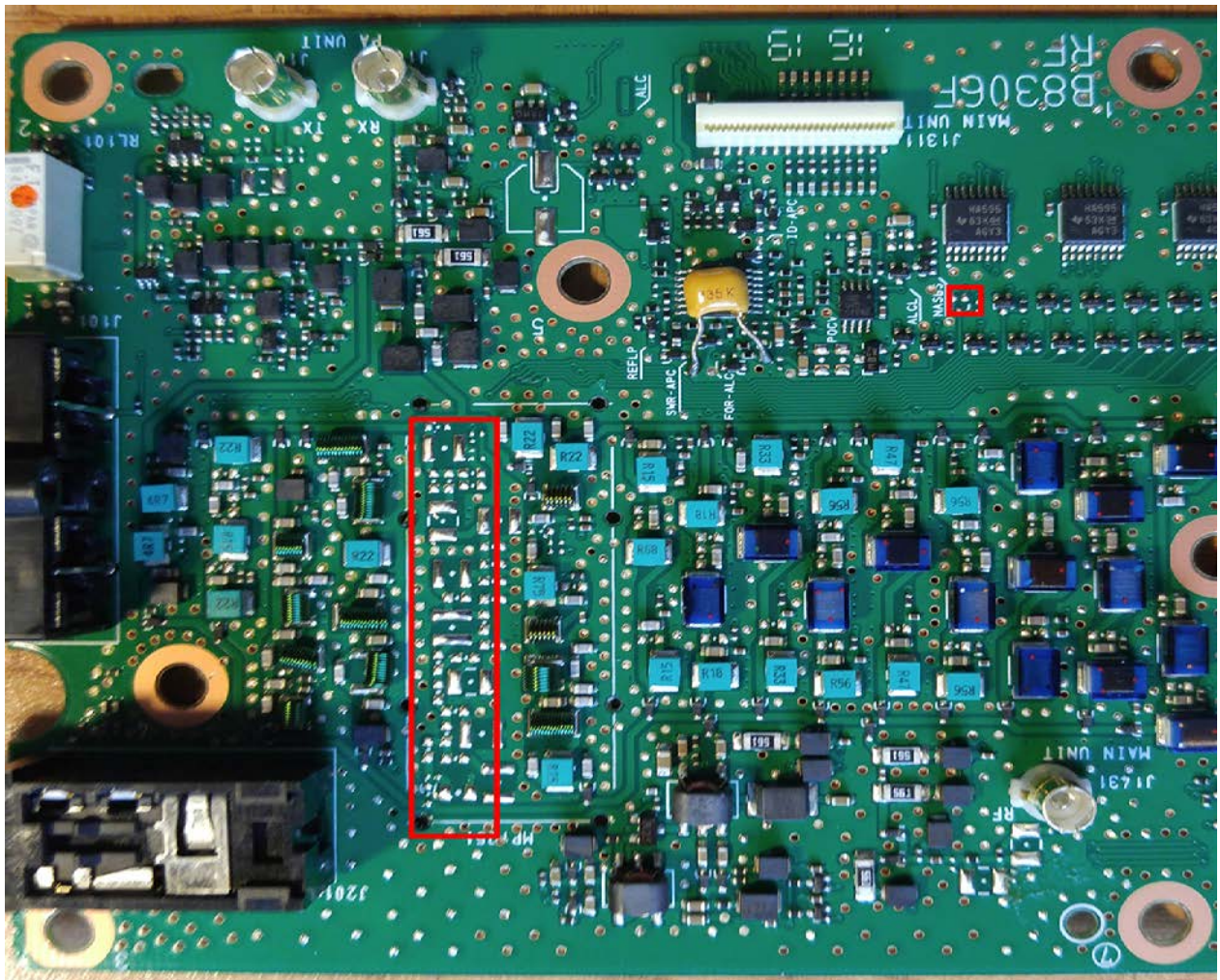
I have recently become a happy owner of the rig. But my happiness was somewhat diminished due to the fact that the rig didn't work on the 70 MHz band.

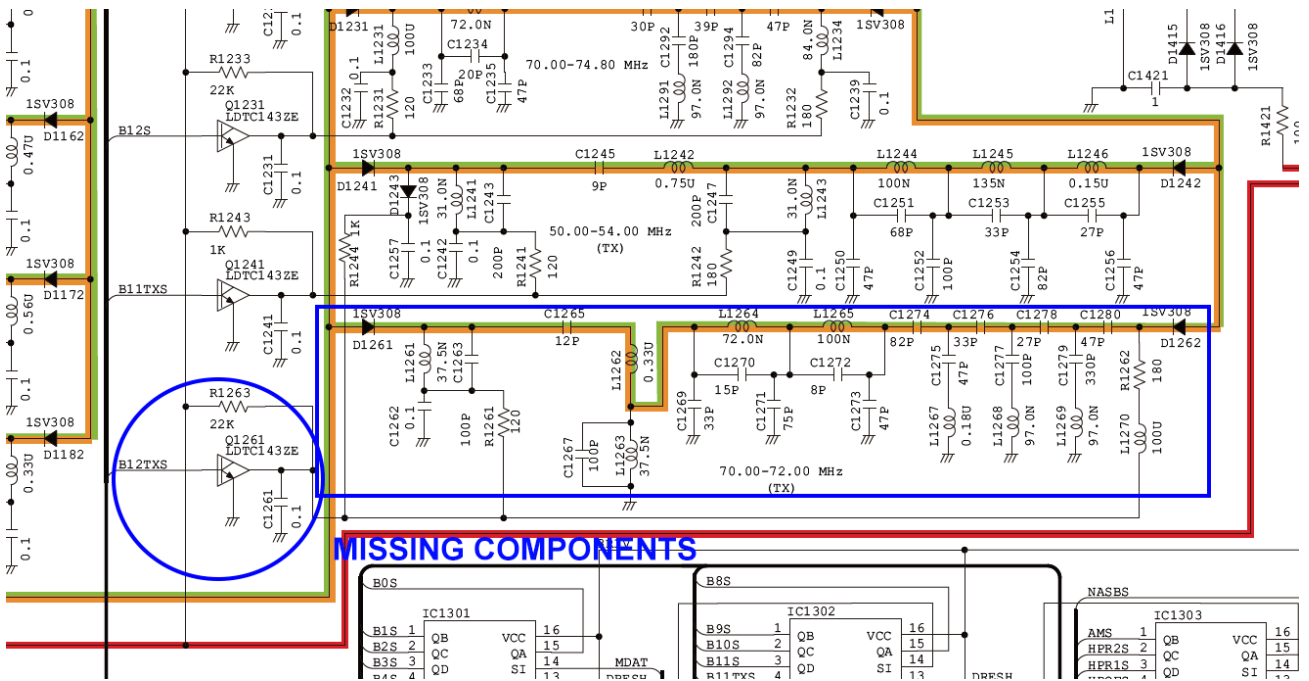
So I have performed this modification following extensive consultations with Oleg (EX8MLT) and Sergey (EX9T).

- 1) I have modified the rig diode matrix to enable the extended transmit on all bands as follows:



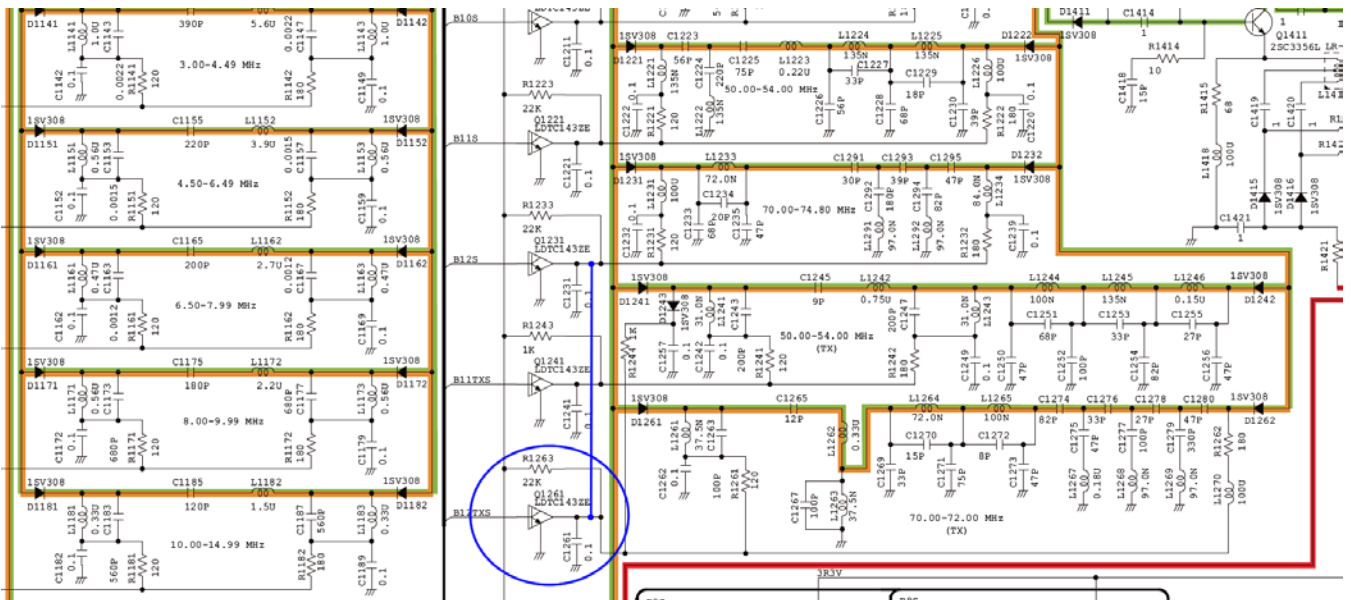
- 2) After studying the circuitry I have realized that 70-72 MHz BPF was missing on the RF Unit board along with 1 transistor keying that BPF (missing parts outlined in red):



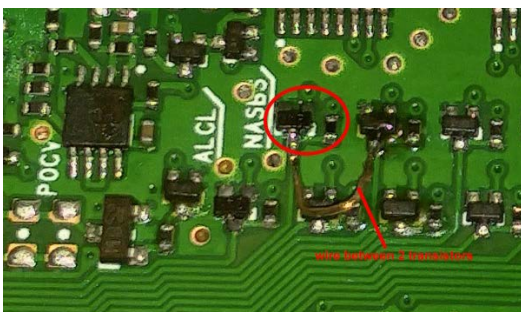


3) In order to enable 70-72 MHz transmission I have come up with the following modification:

- Install Q1261. For that I used the LDTCT144 which was available to me. Actually I think any similar transistor will do just fine.
- Install the R1263.
- Connect the collectors of Q1231 and Q1261 with a short piece of thin wire (about 1/2 inch long) so that the 70-74.8 MHz filter will get enabled for transmission filtering on 70-72 MHz band.



4) Here's how it looks like after the modification:



The result of this modification can be seen here:

<https://youtu.be/OiWs7izchE8>

I must note that **this is a compromise modification** since I have not installed the 70-72 MHz BPF which actually must be there. I am sure this provides inferior results versus the original circuit employed in the EU version of the rig.

Also, I have not studied the resulting RX sensitivity and TX suprious output so I can't guarantee that this modification will enable the rig to transmit and receive like the original EU version would do.

Have questions? Email (QRZ.com address is OK) or connect on Facebook at

<https://www.facebook.com/UN8GC>

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