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How to modify the frequency range
of the Magnum 1 transceiver.

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Magnum 1 Frequency Modification

The Magnum 1 has three frequency configurations:

Band 1: 12 and 10 Meter Amateur Bands (stock configuration)

Band 2: Expanded Frequency with 80 Channels per Band

Band 3: Expanded Frequency with CB 40 Channels

Band 1 Frequency List

A: 24.890 ~ 24.990 MHz (12 Meter Band)

B: 28.000 ~ 28.395 MHz (10 Meter Band)

C: 28.400 ~ 28.795 MHz (10 Meter Band)

D: 28.800 ~ 29.195 MHz (10 Meter Band)

E: 29.200 ~ 29.595 MHz (10 Meter Band)

F: 29.600 ~ 29.700 MHz (10 Meter Band)

Band 2 Frequency List

A: 24.500 ~ 25.300 MHz

B: 25.615 ~ 26.505 MHz

C: 26.515 ~ 27.405 MHz

D: 27.415 ~ 28.305 MHz

E: 28.315 ~ 29.205 MHz

F: 29.215 ~ 29.995 MHz

Band 3 Frequency List

A: 26.065 ~ 26.505 MHz

B: 26.515 ~ 26.955 MHz

C: 26.965 ~ 27.405 MHz (CB Channels 1 ~ 40)

D: 27.415 ~ 27.855 MHz

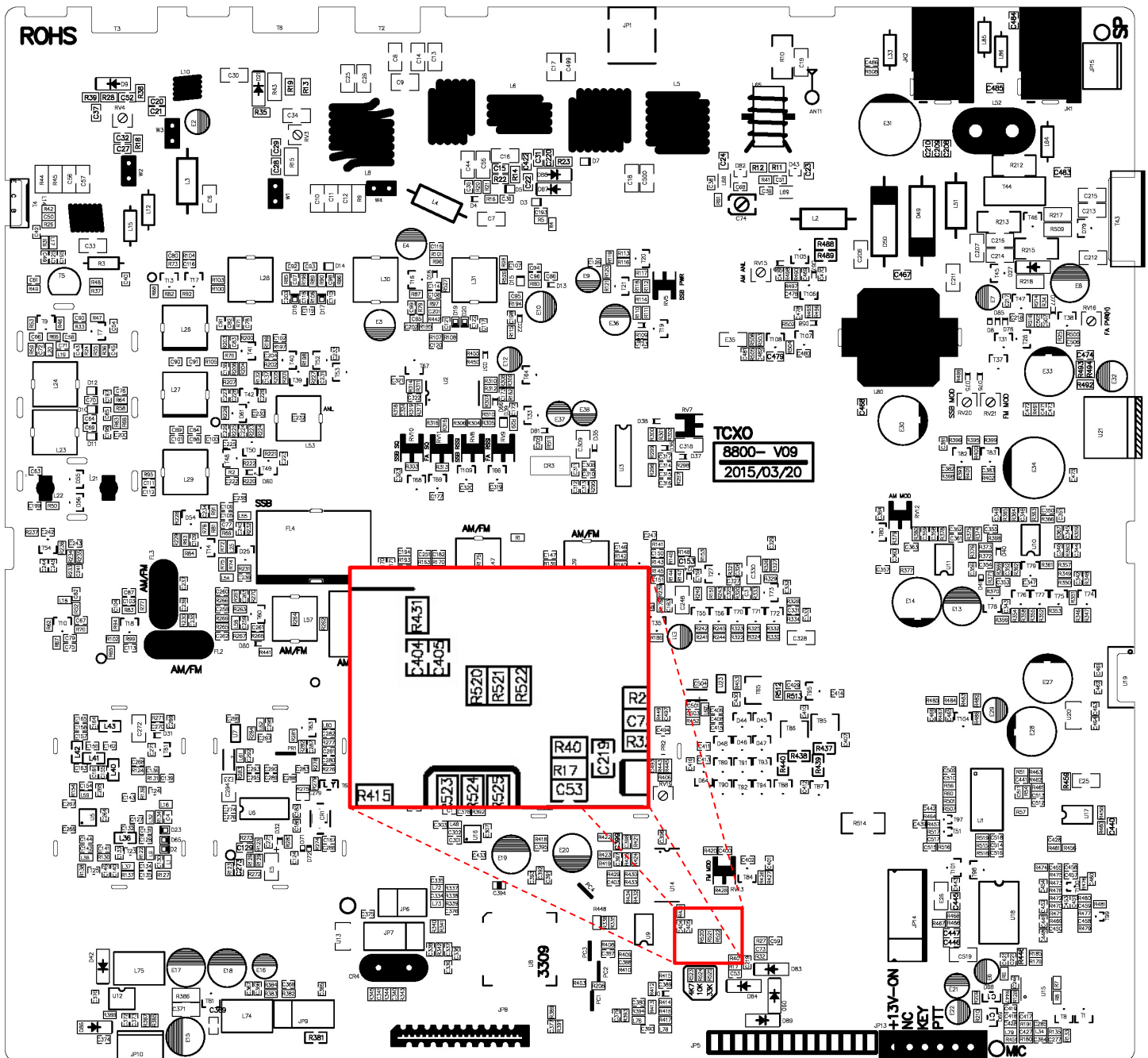
E: 27.865 ~ 28.305 MHz

F: 24.499 ~ 29.999 MHz (Freeband Mode* - Continuous Tuning)

* In Freeband mode, the radio's clarifier setting must be set to "rt". Refer to the Menu Settings section of radio owner's manual.

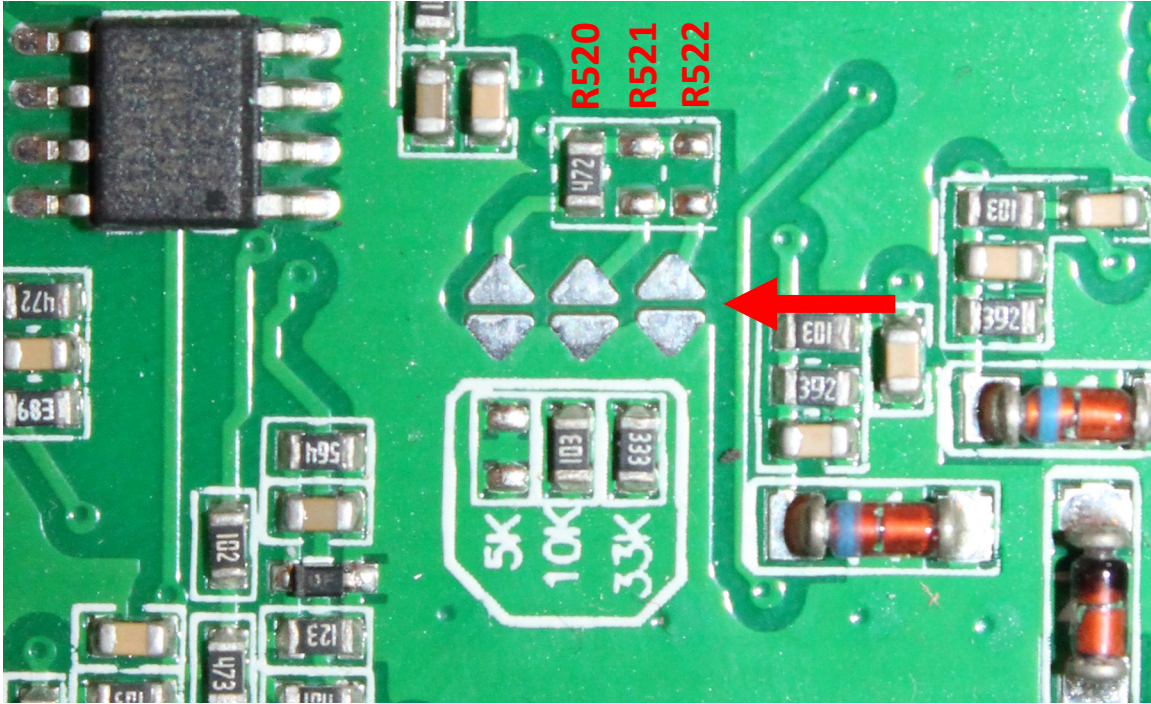
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1. On the main board, near the front of the radio, are 3 resistor locations: R520, R521 and R522 (see diagram below for location). These 3 resistors determine the frequency configuration of the radio. Note: In the stock configuration, only R520 is populated with a 4.7K ohm resistor. This resistor stays at R520.



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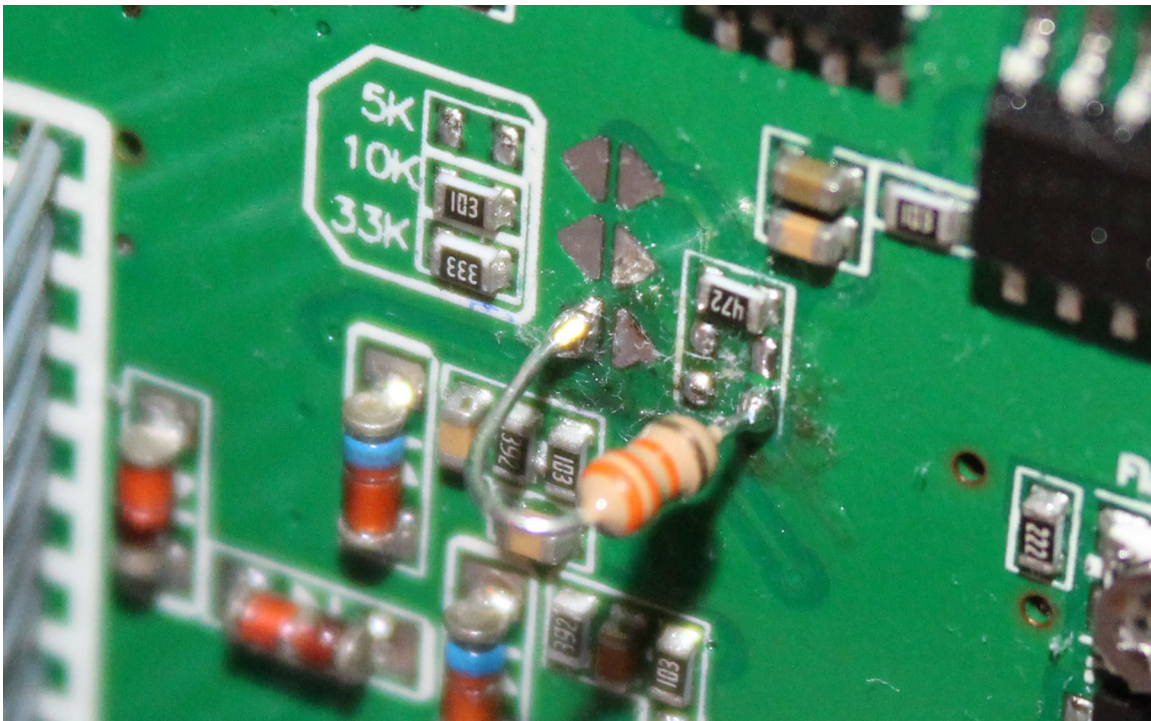
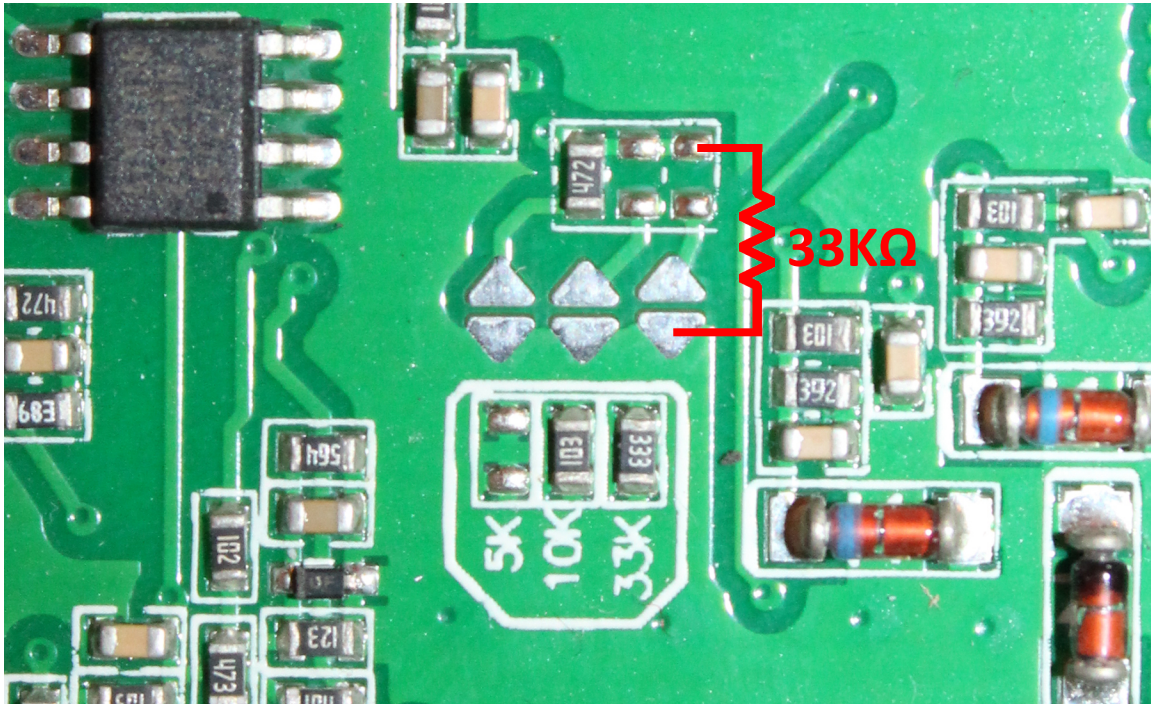
2. Next to each of these 3 resistor locations (and connected to them by traces) is a set of triangular shaped solder jumper pads (see photo below, red arrow).



3. Installing a 10K ohm resistor at R521 will change the radio's frequency configuration to Band 2 (see page 2 of this document).
4. Installing a 33K ohm resistor at R522 will change the radio's frequency configuration to Band 3 (see page 2 of this document). Note: Band 3 is the preferred frequency configuration and this is what is shown below.

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5. Install a 1/8 watt, 33K ohm resistor from top pad of R522 to bottom triangular jumper pad, as diagramed and shown in photos below.



6. After modification, the radio display will briefly show the frequency configuration band number when turned on.

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