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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)

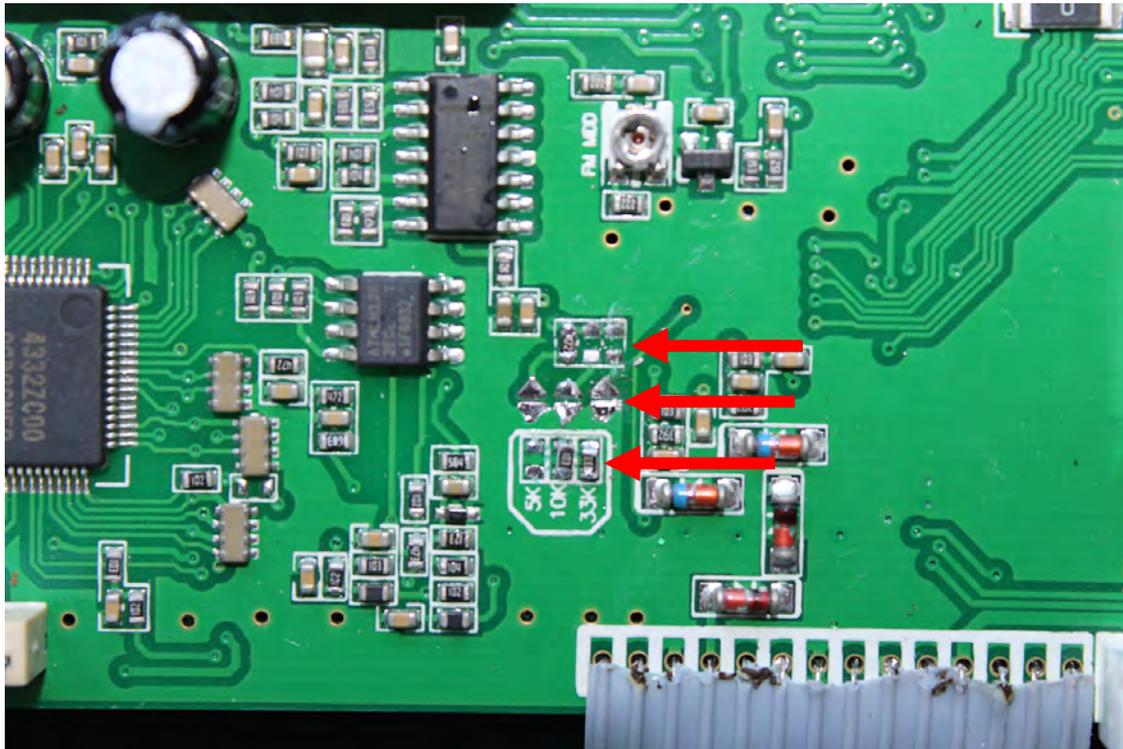
D: 27.415 ~ 27.855 MHz

E: 27.865 ~ 28.305 MHz

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

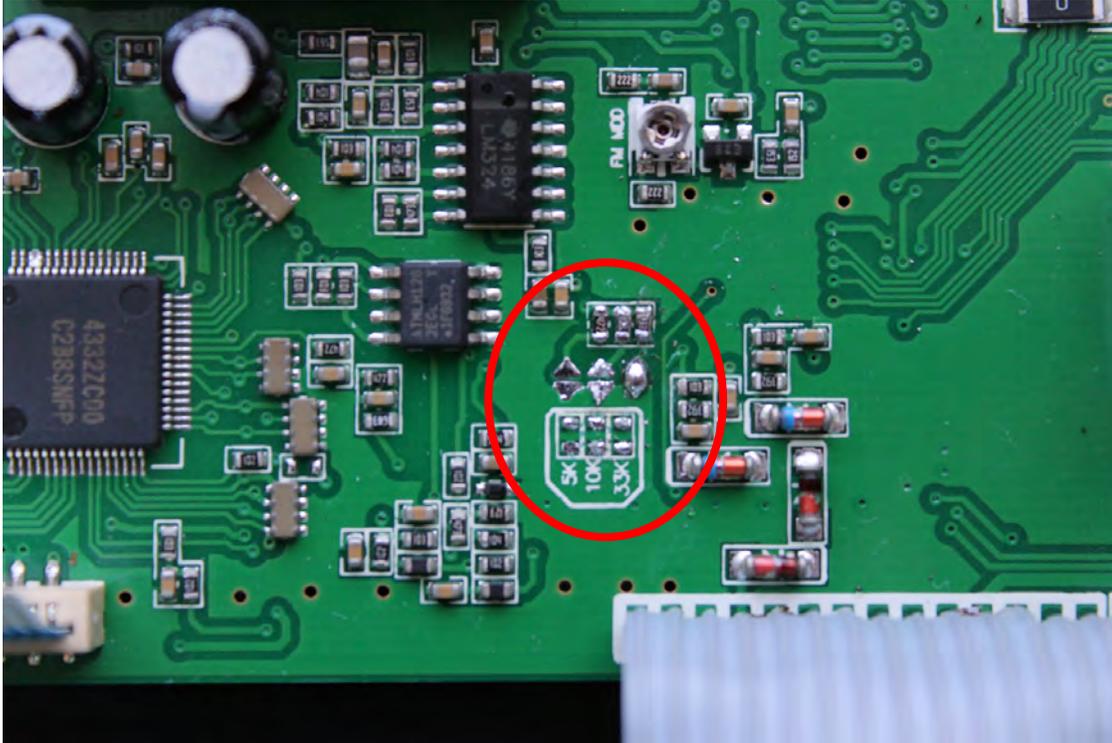
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1. On the main board, near the front of the radio, are 3 resistor locations: R520, R521 and R522 (see photo below, top arrow). These 3 resistors determine the frequency configuration of the radio. Note: In the stock configuration, only R520 is populated with a 4.7K ohm resistor.
2. Next to each of these 3 resistor locations (and connected to them) is a set of triangular shaped solder jumper pads (see photo below, middle arrow). Note: In the stock configuration, only the R520 solder pads are jumped (soldered together).
3. Next to solder pads are resistor locations R523, R524 and R525 (see photo below, bottom arrow). These resistors are used in locations R521 and R522. Note: In the stock configuration, R523 has no resistor, R524 is a 10K ohm resistor, and R525 is a 33K ohm resistor.



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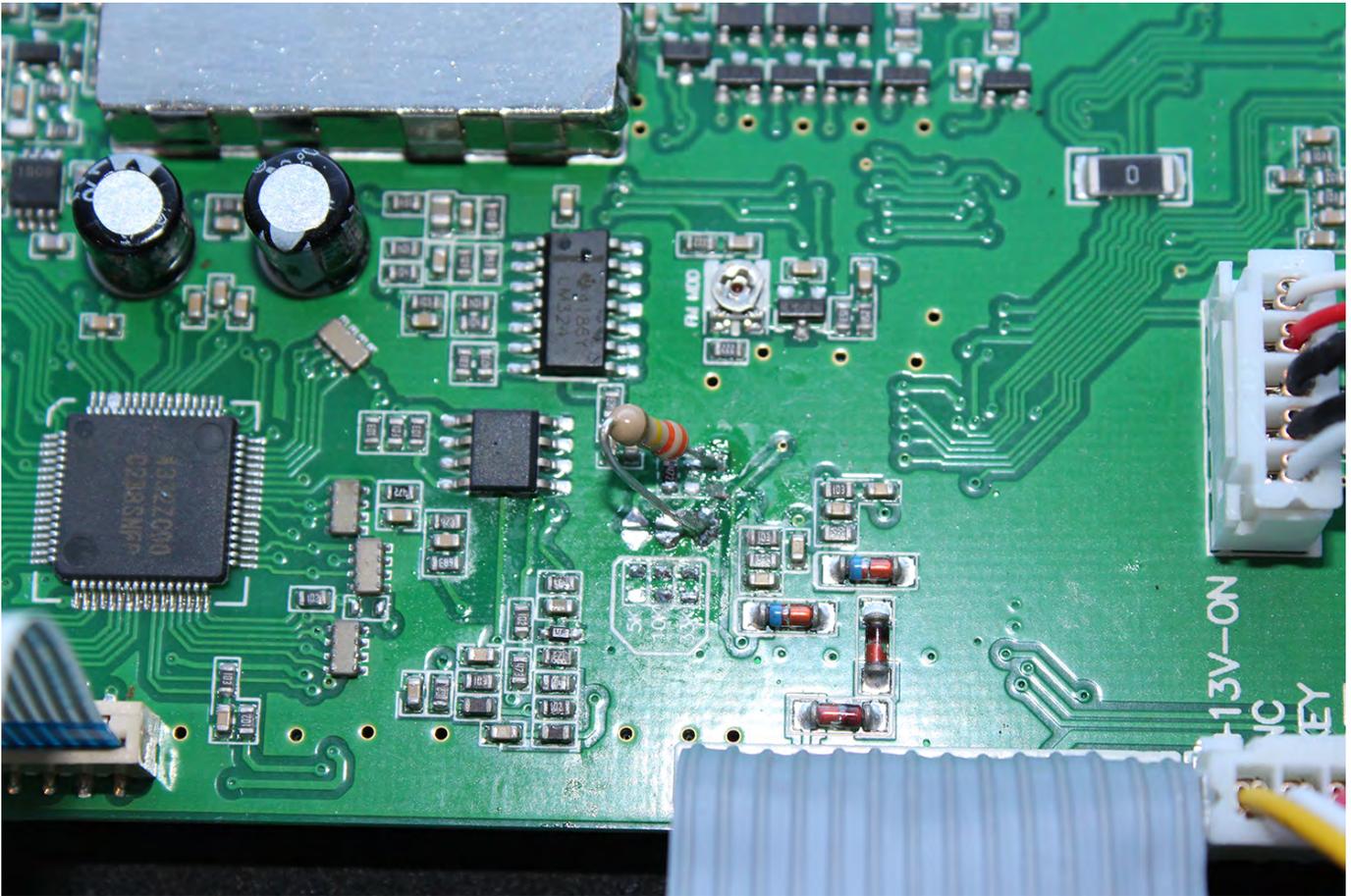
4. Remove the 10K ohm resistor from R524 and install it at location R521. If you do not want to unsolder the 10K ohm resistor at R524, you can leave it there and use a new 10K ohm resistor for location R521. See photo below for example.
5. Remove the 33K ohm resistor from R525 and install it at location R522. If you do not want to unsolder the 33K ohm resistor at R525, you can leave it there and use a new 33K ohm resistor for location R522. See photo below for example.



6. Use the solder pads to determine frequency configuration. Soldering the 2 triangular solder pads together puts the corresponding resistor in circuit and changes the frequency configuration. The photo above has the solder pads at R522 (33K ohm) soldered together to enable the Band 3 frequency configuration.
  - a. Solder pads connected to R520 (4.7K ohm resistor) = Band 1
  - b. Solder pads connected to R521 (10K ohm resistor) = Band 2
  - c. Solder pads connected to R522 (33K ohm resistor) = Band 3
7. After modification, the radio display will briefly show the frequency configuration band number when turned on.

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If you prefer to not work with surface mount components, you can solder a 1/8W resistor across the resistor and jumper solder pad locations. See photo below.



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