

11. Press the MHZ / and MHZ / buttons simultaneously while turning the power on to the radio. This enables the modification.

Some notes:

I experimented with removing JP1004, and it had no apparent effect. I did not experiment with any of the other jumpers except JP1007. There still may be 800 MHz receive buried some where in the radio, the Japanese version has 800 MHz receive. An earlier posting of mine indicates four large resistors (well, non-surface mount) connected between various microprocessor and memory pins, clearly an add-on. Experimentation with removing these produced no effect, HOWEVER, this was prior to my discovery of the JP1007 mod. I've played with the radio enough now, and don't want to push my luck, so let's let someone else try to find out if there are any more secrets buried in this fine piece of gear.

Adjusted the threshold of the Squelch

The FT-51R allows several operating parameters to be adjusted through the keypad. I have found that the high and low modulation levels and the squelch threshold can be adjusted this way. The procedure to accomplish this is as follows;

Turn the radio off

Hold the volume up, volume down, and CALL buttons down, while turning the radio on. (This requires you to carefully place your fingers on the buttons. I had to try a few times, but quickly found the proper finger positions.)

The menu should now read BAND1

Rotate the Rotary Selector Dial to the option you want to adjust. (There are a number of options to choose from. I have only tried the MOD H and MOD L options. I do NOT recommend adjusting other options without proper test equipment.)

Hold the FM function button for 1/2 sec. This enables you to change the displayed values.

Use the MHZ UP/DOWN buttons to select a new value.

Press the FM function button to save the new value.

Press the BAND button, and repeat the above procedure to adjust the parameters for the other band. (Note: To switch to the other band, both bands had to be "ON" when the radio was previously turned off.)

Press the CALL button to exit the adjustment mode.

YAESU FT-51R

Expanded Transmit 140-174 MHz, 420-470 MHz MARS & CAP MODIFICATION

Remove Antenna and Battery.

Remove (6) black screws in rear plastic cover plate (where the battery would normally fit).

Remove the (1) small black screw in the battery slide switch.

Loosen (but don't remove) the (4) black screws on the upper back of rear case and slightly separate the rear radio case.

Remove the "L" type plastic cover CAUTION: Watch out for the delicate ribbon cable.

Locate and unsolder jumper pad #6 (see Figure 2 below for jumper locations) (Pads 1,7 should now be jumpered) (Stock, Pads 1,6,7 only).

Reinstall the "L" type plastic cover.

Tighten the (4) case screws on rear case.

Re-install the (6) black screws in rear plastic cover plate.

Re-install the (1) small black screw with the battery slide switch.

Now attach the antenna and battery.

Turn off Radio... Press and hold both UP & Down Arrows Keys (right side) while turning on the Radio.

Modification now complete!

Jumper locations.

For European tone burst, add solder to jumper 4.

|| 1 o || o 2 || 3 o | CPU | o 4 || 5 o || o 6 | _____ | 7 o ||

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