

FT-817

Modification instructions for wideband HF settings.

Read the bottom of the last page for full TX!

These instructions are to enable you to expand the HF coverage of your transceiver to 500kHz per band. Also the modification will extend VHF and UHF coverage and modify some settings as per the table on the next page. **Don't forget it is YOUR responsibility to ensure that you do not transmit out of your permitted bands.** This modification will also clear any memories and individual changes to settings so make a note of these before you carry out this procedure.

Please note that you are taking full responsibility for any damage caused to the transceiver during this modification exercise. All normal precautions to protect against static electricity should be followed.

Firstly remove the battery and disconnect the radio from any power source.

Next remove the top and bottom covers

Looking at the front of the radio there are 2 clips on the top and 2 on the bottom.

Ease these clips free of the main body of the radio and slide the front panel off

(taking care not to overstretch the attached ribbon cable)

Next unclip the ribbon cable from the main body of the radio.

Now the front panel should come free and you can then see the jumper positions.

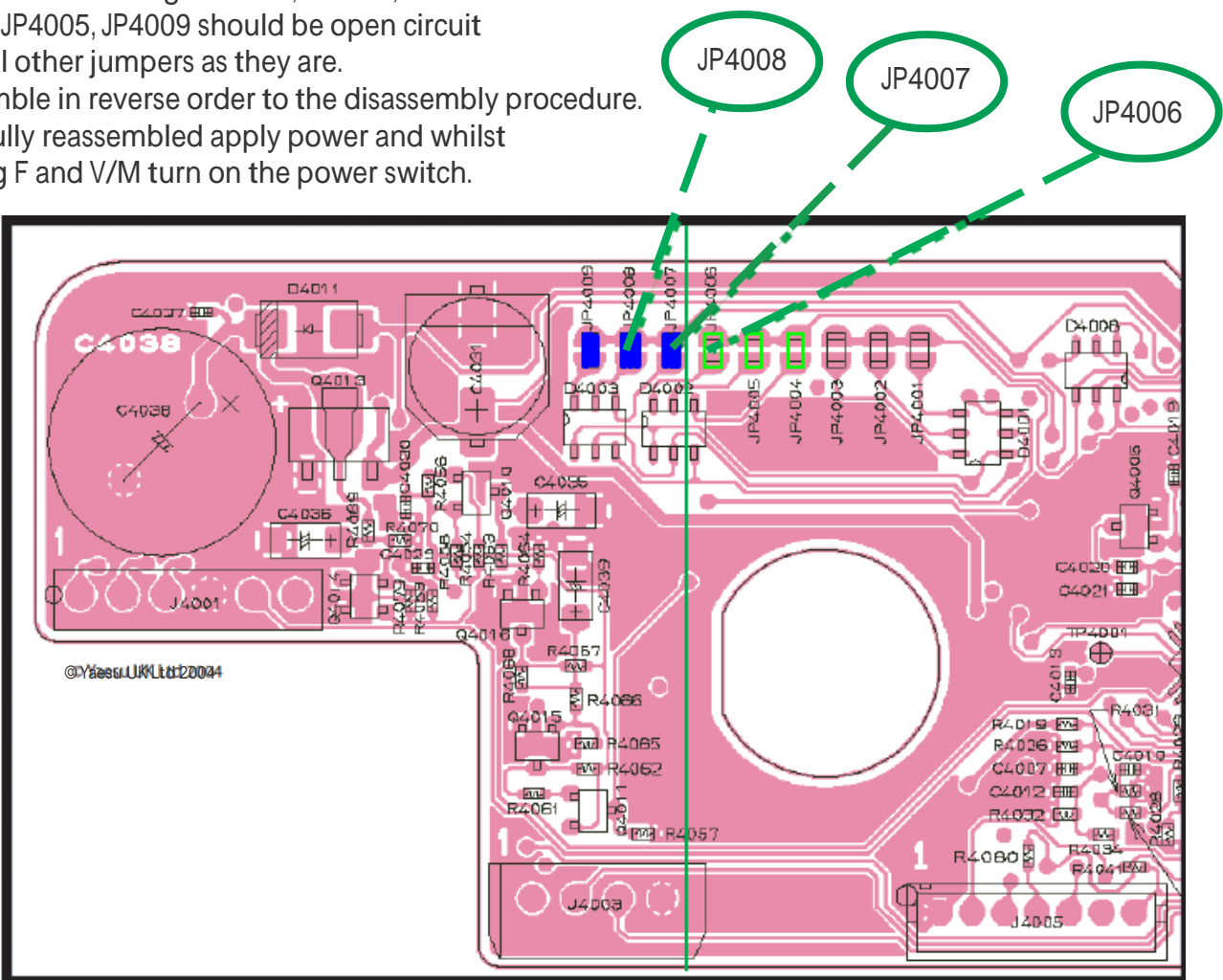
To extend the HF range JP4006, JP4007, JP4008 should be shorted and

JP4004, JP4005, JP4009 should be open circuit

Leave all other jumpers as they are.

Reassemble in reverse order to the disassembly procedure.

When fully reassembled apply power and whilst pressing F and V/M turn on the power switch.





FT-817

Frequency coverage after modifications

Transmit coverage				Receive coverage			
1.80MHz		2.00MHz		0.10MHz		30.00MHz	
3.50MHz		4.00MHz		33.00MHz		56.00MHz	
7.00MHz		7.50MHz		76.00MHz		108.00MHz	
10.00MHz		10.50MHz		108.00MHz		154.00MHz	
14.00MHz		14.50MHz		420.00MHz		470.00MHz	
18.00MHz		18.50MHz					
21.00MHz		21.50MHz					
24.50MHz		25.00MHz					
28.00MHz		30.00MHz					
50.00MHz		54.00MHz					
140.00MHz		154.00MHz					
420.00MHz		470.00MHz					

The VHF and UHF default channel spacing is set at 12.5kHz and 25 kHz.

Repeater shifts are set to

- 0.1 MHz for HF
- 0.5MHz for 50MHz
- 0.6MHz for VHF
- 1.6MHz for UHF

Open [JP4004](#), [JP4005](#), [JP4006](#) and soldering [JP4007](#), [JP4008](#), [JP4009](#) enables you to expand the HF, VHF and UHF TX coverage of your FT-817 transceiver to the following:

- 1.8 MHz – 33 MHz
- 33 MHz – 56 MHz
- 140 MHz – 154 MHz
- 420 MHz – 470 MHz (Reduced output above aprx. 457 MHz!!)

The RX range after the modification is as follows:

- 0.1 MHz – 33 MHz
- 33 MHz – 56 MHz
- 76 MHz – 108 MHz (WFM Only.)
- 108 MHz – 137 MHz
- 140 MHz – 154 MHz
- 420 MHz – 470 MHz