

Instructions to set the Yaesu FT-8800 radio into Cross Band Repeat Mode

Typically in Cross Band Repeat mode you will be using the mobile radio to repeat a desired frequency to your HT so that you will have coverage from inside a building. This mode is also perfect to add a poor RF location to a repeaters coverage for an emergency net. It is frowned upon to leave any cross band repeater up and operating without permission of the repeater owner. It is also considered illegal to leave it unattended without a control operator.

When IDing it is good to say "This is KA8SPW using a cross band repeater". This tells the other people on the net to key up and wait a second before talking or their first word may be missed. A good Net Control Station will remind the net now and then that "Cross band repeat mode is in use, please delay your first word a moment before speaking. When using a cross band repeater, it takes a moment for each radio to open squelch before audio is passed. It is always good operating practice to key and wait a moment before speaking anyway!

Normally the rig and antenna is setup in your vehicle. You may also elect to set the mobile rig up with a base power supply in a tall building or on top of a hill. Maybe inside a rooftop equipment room with a magnetic mount antenna stuck to a metal air duct. Pick a good vantage point that produces the coverage you need using your HT.

As always, when using this or any other mobile radio in cross band repeat operation, **BOTH bands on the mobile radio MUST BE SET TO LOW POWER or it will burn up!!**

Set up the rig sometime when the repeater is not in use and test the operation. Please do not do so the first time during a net. If it goes bad it will kill the net. Not a way to make friends and influence people.... Ask another ham to get on the repeater and help you test. Note how the audio is changed a little. Note the delays.

Major note: You must to wait for the repeater to drop before replying.

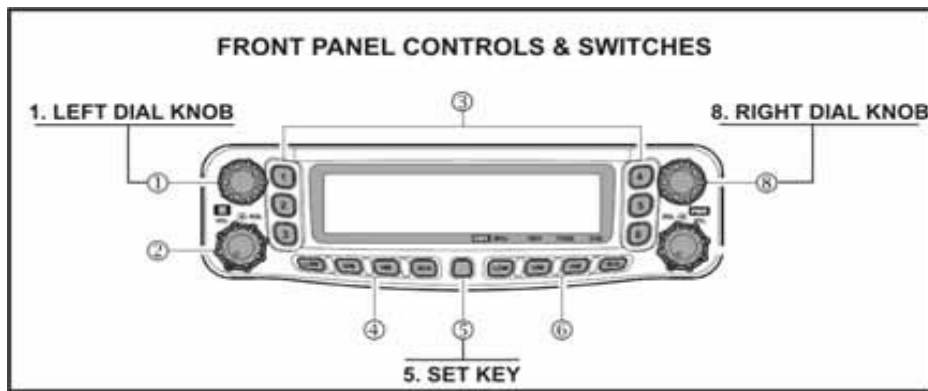
Also, did I forget to say, **BOTH bands on the mobile radio MUST BE SET TO LOW POWER or it will burn up!!**

Good Luck!

Shanon, KA8SPW

Shanon KA8SPW 2-11-2011

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To set the radio up you must do the following:

1. First, set each band to the desired frequencies. Once both sides of the radio are in "Memory mode", frequencies can be selected by rotating the upper dial knob on each side. You can also use VFO mode but it is easier to have memories set for cross band use. Remember you can only **cross** band repeat. In band repeat will not work. Both sides should be set for PL Decode to keep unwanted signals from bringing up the unit and locking it up in transmit.

Typically you will set the LEFT side of the radio for the outside world frequency that you will be going into. The RIGHT side will get set with the frequency that your HT is set for. You can enter cross band repeat mode from either side, it is determined by which band is the main band when you enter the cross band repeat mode, it does not matter.

2. Now set the power levels by pushing the "LOW" button on EACH side until you have the **lowest power settings**. Always select the LOWEST possible settings.
(It would be good to check the mobile rig for overheating now and then).

3. Next push the center SET KEY button (unmarked) momentarily (not more than ½ second). This puts you into menu mode.

4. Rotate the top DIAL knob on whichever side of the radio that displays the menu selection until you see "X-RPT" (MENU # 45). (It doesn't matter which side it is on).

5. Then push the same DIAL knob momentarily, TWICE, to start the cross-band repeat operation.

TO EXIT CROSS-BAND: Push the center SET button (unmarked) momentarily.

Major note: You must wait for the repeater to drop before replying.