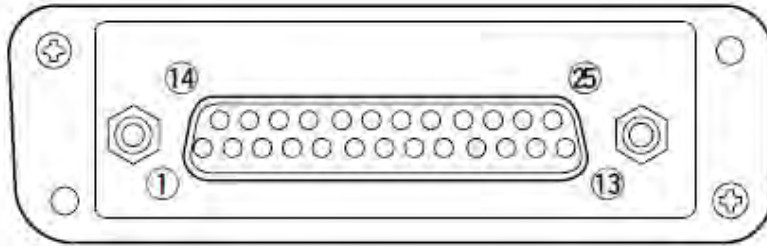


## FR5000 Channel Steering



### FR5000 Channel Steering Port Assignments

The FR5000 uses BCD (Binary-Coded Decimal) for changing channels on the 25-pin connector.

In the **Port Setting** window, assign **MCH Select 1-5** on any five pins (ports) available and set them Low (or High, depending on the output of the tone remote adapter). **MCH Select** *does not* mean channel number on the repeater, it refers to BCD numbers (please look at the table that follows).

Note: Assigning any pins as MCH Select XX immediately disables any channel changing using the Channel Up/Down Buttons.

LMR

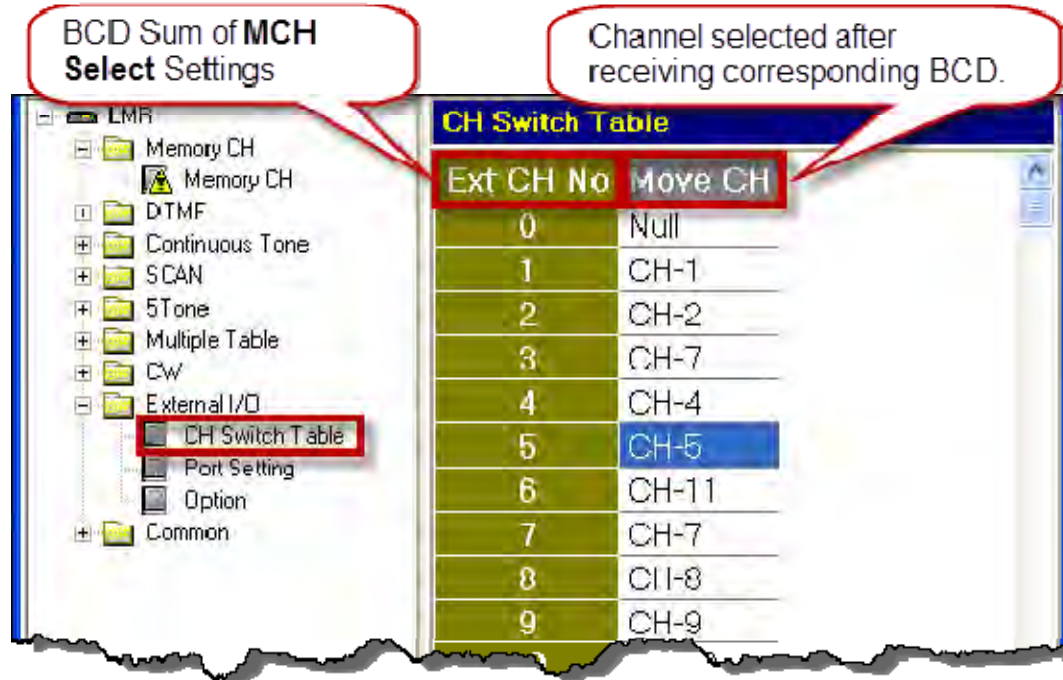
- Memory CH
  - Memory CH
- DTMF
- Continuous Tone
- SCAN
- 5Tone
- Multiple Table
- CW
- External I/O
  - CH Switch Table
  - Port Setting**
  - Option
- Commor

Port Setting			
D-Sub 25pin			
Port	In/Out	Function	Active Logic
Ext. I/O 15	Input	MCH Select : 1	Low
Ext. I/O 16	Input	MCH Select : 2	Low
Ext. I/O 17	Input	MCH Select : 3	Low
Ext. I/O 18	Input	MCH Select : 4	Low
Ext. I/O 19	Input	MCH Select : 5	Low
Ext. I/O 21	Output	Analog Audible	Low
Ext. I/O 23	Output	Mic Mute	Low
Ext. I/O 24	Output	Null	Low
Ext. I/O 25	Output	Hanger	Low
Ext. D/A 10	Output	Null	

Port	BDC
MCH Select : 1	+ 1
MCH Select : 2	+ 2
MCH Select : 3	+ 4
MCH Select : 4	+ 8
MCH Select : 5	+ 16

By using a combination of the BCD values, the Ex CH No can be selected, thus causing the radio to change to the channel that is referenced by that Ex Ch No. The

**Ext CH No** column is *the sum* of the **MCH Select** inputs from the tone remote adapter. The **Move CH** is the channel you want to switch to in response to the selection of the **Ext CH No**.



**Example 1:**

The examples assume the port channels (**MCH Select**) are set to be active **Low** and the dealer-selected remote device (BCD setting) is set to “Normally High (inactive state)”.

With **MCH Select 1, 2, 3, 4**, set to Low (**Port Setting** Window), the tone remote adapter sends a Low signal to MCH Select pins (assigned on the DB-25) 1 and 3. This is equivalent to a BCD of 1 + 4, which equals 5. In the **CH Switch Table** shown above, **Ext CH No 5** diverts the radio to Channel 5.

**Example 2:**

If a tone remote adapter sends a Low signal to **MCH Select 1, 2, and 3**, this is equivalent to a BCD of 1 + 2 + 4, which equals 7. In the table above, **Ext CH No 3** diverts the radio to Channel 7.

Note: the “move” Channels can be changed in programming as needed.