

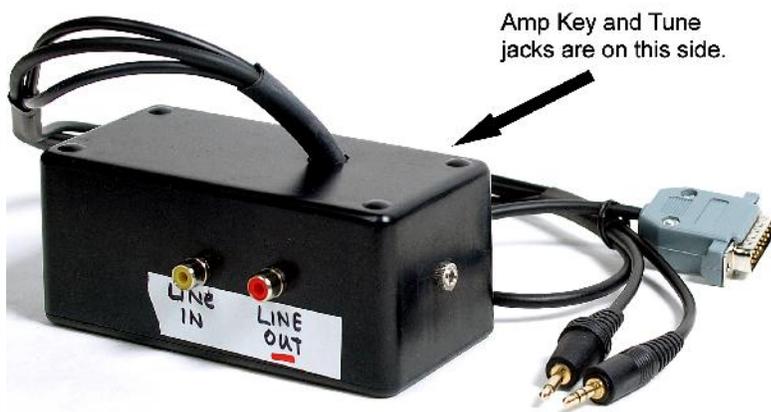
## FTDX3000 LINEAR JACK BREAK OUT

### OBJECTIVE:

To Build a separate, remote break out box to facilitate connections to and from the Ftdx3000 transceiver to various external devices, including:

- 1) External and/or Remote Antenna Tuner
- 2) External Linear Amplifier
- 3) External Speaker(s)
- 4) Line-In Audio and/or Data Source
- 5) Line-Out Audio and/or Data Source

I don't particularly enjoy reaching a long way back behind the rig to make connections, so I make these little break out boxes that can be located under the desk where I can get at them to quickly make connections or make changes to what is connected to the rig without having to move the rig and turn it around to reach rear panel connectors. This one was made from scraps of previously cannibalized cables, a previously purposed plastic project box, and various jacks and connectors I routinely stock on hand for just such an occasion. Otherwise most parts can be quickly and cheaply obtained from [www.allelectronics.com](http://www.allelectronics.com) and [www.ebay.com](http://www.ebay.com), and the other usual suspects such as Mouser, DigiKey, and even dear old Radio Shack.



Amp Tune Switch - Normally Open (NO)  
Momentary Switch can be placed any  
convenient spot on the desk.

**PARTS LIST:**

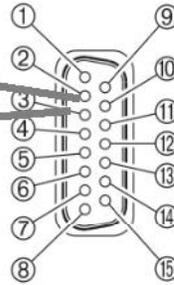
Number	Item Description		Cost
1	Plastic project box (5" x 2.5" x 2")		\$3.50
1	Project Box (3" x 2" x 1")		\$2.50
1	Momentary Switch (Normally Open)		\$1.50
4	3.5 mm panel mount phone jack		\$2.00
3	RCA panel mount jack		\$1.50
1	3-conductor shielded audio cable terminated on one end with 3.5 mm stereo (TRS) phone plug at one end, other end unterminated		\$1.50
1	2-conductor shielded audio cable terminated on one end with 3.5 mm mono (TS) phone plug at one end, other end unterminated		\$1.50
1	15-pin D-Sub DB-15 connector with shell		\$2.00
1	4-conductor shielded cable - unterminated both ends		\$1.00
X	Various patch cables to complete connections to external devices		\$3.00
		Total Cost (approx)	\$22.00

**AMP KEY LINE**

Pin 2 TX GND to Center Pin of RCA Jack

Pin 3 to outer shell-ring-ground on RCA jack

Keys linear amplifier. Same as [TX GND] on RCA jack on rear panel.



- ① +13.5V OUT
- ② TX GND
- ③ GND
- ④ BAND DATA A
- ⑤ BAND DATA B
- ⑥ BAND DATA C
- ⑦ BAND DATA D
- ⑧ TX INH
- ⑨ GND
- ⑩ NC
- ⑪ TX REQ
- ⑫ NC
- ⑬ NC
- ⑭ EXT ALC
- ⑮ GND

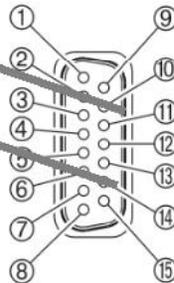
(as viewed from rear panel)

**LOW POWER TUNE BUTTON**

Pin 11 TX GND to Center Pin of RCA Jack

Pin 15 to outer shell-ring-ground on RCA jack

Same as the TX GND jack on the rear panel RCA jack.



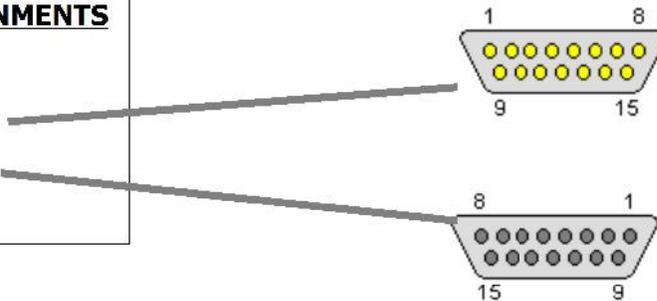
- ① +13.5V OUT
- ② TX GND
- ③ GND
- ④ BAND DATA A
- ⑤ BAND DATA B
- ⑥ BAND DATA C
- ⑦ BAND DATA D
- ⑧ TX INH
- ⑨ GND
- ⑩ NC
- ⑪ TX REQ
- ⑫ NC
- ⑬ NC
- ⑭ EXT ALC
- ⑮ GND

(as viewed from rear panel)

**DB-15 STANDARD PIN ASSIGNMENTS**

Standard 15 pin D-connector Pin Assignments

Male Connector Pin Assignments



**LINE-IN AND LINE-OUT JACK**

TIP ---> LINE-OUT

RING ---> LINE-IN

SLEEVE---> GROUND

