

Yaesu DR-1X to 7330

14 April 2014, Dave Maciorowski

Update 30 Mar 2015, DRM -- tested with DR-1X Firmware Revision 1.00Z

7330 Pin Description	7330 Radio J21 DE9 Male J20 DB25 Male	SCOM Radio Cable	Yaesu DR-1X Ext Ctrl DE15HD Male	DR-1X Pin Description
RX Audio	J21-1	Center	8	DISC OUT
RX Audio Ground	J21-6	Shield	10	Ground
RX COR	J21-2	Y	4	SQL DET
RX CTCSS	J21-3	V	3	CTCSS/DCS
TX Audio	J21-5	Center	7	AF In
TX Audio Ground	J21-9	Shield	5	AF IN
TX PTT	J21-4	O	2	EXT PTT
TX CTCSS Audio/Logic Output	J21-8	W	6	TONE IN
Ground	J21-7	Blk	5	GND
Logic Output #1	J20-1		1	EXT I/O
Logic Output #2	J20-2		11	EXT Port 1, Mode Select
Logic Output #3	J20-3		12	EXT Port 2, Mode Select
Ground	J20-16		10	GND

Install the following 7330 Jumpers for the Radio Port you're using. (See Installation chapter, page B22, of Manual.)

7330 Jumper Description	7330 Jumper
RX Audio Flat Response	J10/J11/J3
RX Audio High Level	J10/J11/J3
RX Audio No Delay	J10/J11/J3
TX Audio Normal Level	J34/J35/J36
TX CTCSS Encoder	J37/J38/J39
RX COR Pullup	J25/J27/J29
RX CTCSS Pullup	J26/J28/J30

Notes:

Requires DR-1X EXT I/O pin 1 grounded to enable the DR-1X audio paths through the external controller.

In the 7330, enable repeat audio path for the port the DR-1X is plugged into.

DR-1X Mode	EXT I/O	EXT Port 1	EXT Port 2	Note
DR-1X Internal: AMS/FM	Open	Open	Open	
DR-1X Internal: FM/FM	Open	Gnd	Open	
DR-1X Internal: Dig/Dig	Open	Open	Gnd	
DR-1X Internal: AMS/AMS	Open	Gnd	Gnd	
DR-1X External: AMS/FM	Gnd	Open	Open	The DR-1X does not support this mode.
DR-1X External: FM/FM	Gnd	Gnd	Open	
DR-1X External: Dig/Dig	Gnd	Open	Gnd	The DR-1X does not support this mode.
DR-1X External: AMS/AMS	Gnd	Gnd	Gnd	The DR-1X does not support this mode.
DR-1X Disable	Gnd	Any	Any	DR-1X Internal is disabled in External with no external PTT