



# Connection Notes RIM\_Lite to Ken. TKR-x20 Repeater

## Cable Information:

RIM_Lite (DE-9M)	Signal	TKR-720	Notes
1	→→ TX Audio (Aux. Audio) →→	3	Voice and/or CTCSS
2	→→ TX Audio (Main Audio) →→	5	Voice TX
3	←← COS in ←←	13	RUS - Active Low
4	←← CTCSS in ←←		
5	→→ PTT →→	8	
6	←← RX Audio ←←	4 10	4 – Discriminator 10 – De-emphasized
7	N/A		
8	←← Ground →→	11 & 1*	
9	←← Ground →→		

15-Pin Accessory Connector Info			
	Molex Part Numbers	Digikey Part Numbers	Mouser Part Numbers
Housing:	03-06-2152	WM1228-ND	538-03-06-2152
Pins:	02-06-2103	WM1000-ND	538-02-06-2103

**Pin Layout:**  
(looking at the rear of the unit)  
The connector is five rows of three pins across:

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15

**NOTES:**

\*Pins 11 is ground. Pin 1 MUST be connected to ground.

Jumper pin 9 to pin 12 for local speaker audio

In AllStar set:  
 carrierfrom=usb and ctcssfrom=no  
 txmixa=voice  
 txmixb=tone  
 Make sure pre-emph./de-emph. matches type of audio to/from repeater