

KENWOOD TK790 INTERFACE

This document contains instructions for interfacing the 20-28 to the Kenwood TK790 radio. The following items are included in the Kenwood TK790 interface kit:

1. Kenwood TK790 to 20-28 interface cable assembly.
2. Instruction sheet.

The following steps outline the procedure for interfacing the Kenwood TK790 radio to the 20-28:

1. The following modifications must be made to the radio:
 - Short the 'SB' pads for switched battery on the DB-25 if the radio will be supplying power for the 20-28.
 - Resistor R641 (0 ohm) removed
 - Resistor R640 (0 ohm) installed
2. Connect the DB-25 end of the Kenwood TK790 interface cable labeled '20-28' to the DB-25 connector on the back of the 20-28.
3. Connect the DB-25 end of the Kenwood TK790 interface cable labeled 'Radio' to the DB-25 connector on the back of the radio.
4. **MSK & Tone models only:** Install (short) jumper JP3 on the 20-28 base board.
VOIP models only: Install (short) jumper JP 5. Set SW1 to position A.
5. Configure the remaining jumpers based upon the system requirements. The audio level adjustments may also need to be checked.

Kenwood TK790 Interface Cable

DB-25			DB-25		
17	AFO	BLUE	1	RX AUDIO	
9	TXD2	GREEN	2	SERIAL IN	
10	RXD2	WHITE	3	SERIAL OUT	
7	E	BLACK	7	GROUND	
14	SB	RED	20	13.8 VDC	
13	MI	BROWN	21	TX AUDIO	

To Radio

To 20-28

Kenwood TK790 Interface (cont.)

**Kenwood TK790 Interface Cable Kit
106-28KEN790**

Item	Description	Part No.	Qty.
1	DB25 CONNECTOR MALE	231-0005	2
2	SCREW/CLIP KIT	231-0014	2
3	4-40 X 1/2 SCREW	199-4035	4
4	DB25 COVER ASSEMBLY	231-0015	2
5	CBL 6 COND/22 AWG	800-1112	1'