

Motorola SM-50 / SM-120 Interface

The following items are included in the Motorola SM-50 interface kit:

1. SM-50 interface cable assembly.
2. Cable tie.
3. Instruction sheet.

The following steps outline the procedure for interfacing the Motorola SM-50 radio to the TrakIt-20.

1. Set the TrakIt-20 up for a bench test and use the AVL Installer program to set the following operating constants in the installer table to the indicated value:

Transmit indicator active:	High
Receive indicator active:	High
PTT output active:	Low
Enable Tx indicator as event 2:	No
External output active:	Low
External output mode:	Speaker mute

2. Configure the following jumpers as indicated:

JP1	Removed
JP4	A-B

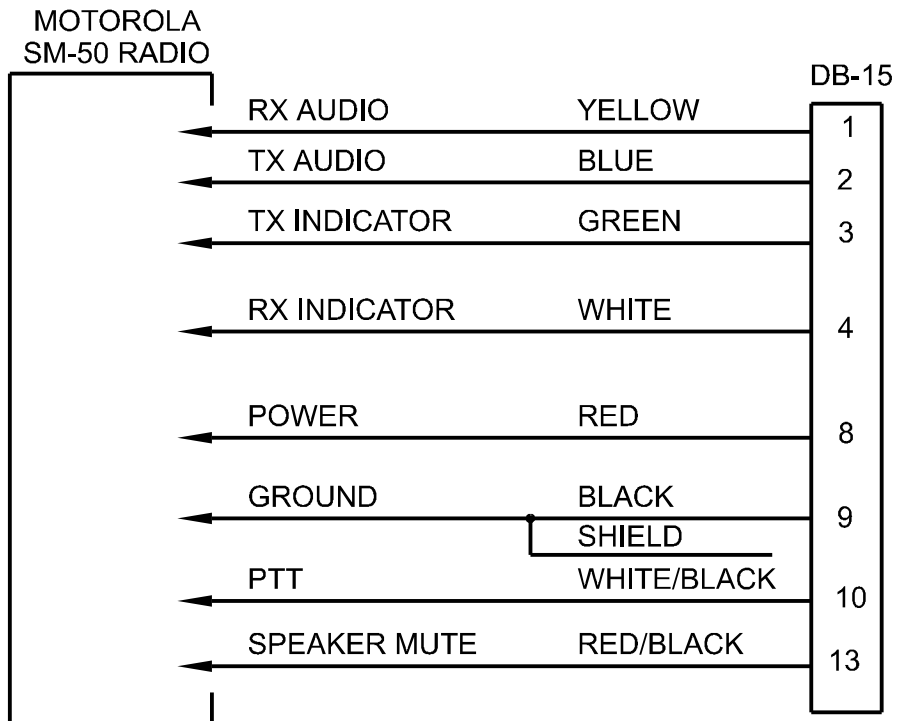
3. Program pin 8 of the accessory connector of the SM-50 radio for CSQ output active high.
4. Remove the top cover of the SM-50 radio.
5. Pass the green wire and red/black wire through the slot next to the accessory connector in the back of the SM-50 radio.
6. The green wire of the SM-50 interface cable should be connected to J8 pin 5.
7. If the radio is an SM-120, the green wire should be connected to the right side of R434 with a piece of wire wrap wire. There is a feed through a short distance away connected to R434. Solder the wire wrap wire here.
8. The red/black wire of the SM-50 interface cable should be connected to U501 pin 8.
9. Insert the remaining wires of the SM-50 interface cable into the radio's accessory connector as follows:

Pin #	Wire
2	Blue
3	White/Black
7	Black/Shield

8 White
 11 Orange
 13 Red

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9. Secure the SM-50 interface cable to the accessory connector with the cable tie strap. Connect the accessory connector to the radio.
10. Replace radio cover.
11. Connect the DB-15 end of the SM-50 interface cable to the DB-15 connector on the back of the TrakIt-20.
12. Check the TrakIt-20's audio levels by performing the alignment procedure described in this manual.



**Motorola SM-50 Interface Cable Kit
 106-MOTOSM50**

Item	Description	Part No.	Qty.
1	CABLE TIE (SHORT)	200-0081	1
2	SCREW/CLIP KIT	231-0014	1
3	CONN DB15 MALE	231-0035	1

4	COVER DB15	231-0036	1
5	AMP, PINS	234-0096	6
6	CBL, 8 CONN 22 AWG STR	800-1114	1'