Motorola M120 Interface

The following items are included in the Motorola M120 interface kit:
1. M120 interface cable assembly.
2. Cable tie.
3. Instruction sheet.

The following steps outline the procedure for interfacing the Motorola M120 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:	Low
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:
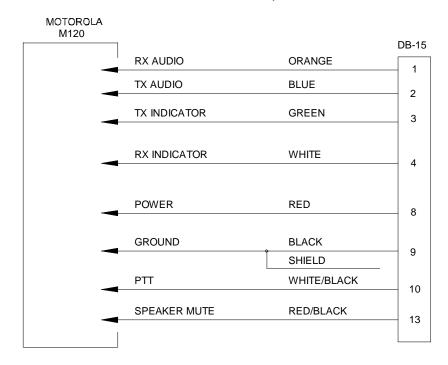
JP1	Removed
JP4	A-B

3. Remove the control head and the top and bottom covers of the M120 radio by following the instructions in the M120 service manual.

4. Pass the green and red/black wires from the M120 interface cable through the accessory connector hole in the radio chassis before connecting them to points internal to the radio

5. Solder the green wire of the M120 interface cable to pin 42 of U802.

6. Solder the red/black wire of the M120 interface cable to pin 1 of U501.

7. Insert the remaining wires of the M120 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

Motorola M120 Interface (cont.)

8. Secure the M120 interface cable to the accessory connector with the cable tie strap and connect the accessory connector to the radio.

9. Replace the control head and the top and bottom covers of the radio.

10. Connect the DB-15 end of the M120 interface cable to the DB-15 connector on the back of the TrakIt-20.

11. Check the TrakIt-20's audio levels by performing the alignment procedure described in this manual.

Note: If the microphone being used with the M120 radio is a newer version and has power and/or transmit LED's, be aware that it may have an effect on the TX audio level from the TRAKIT-20. The level will change as the microphone is plugged in or removed as it tends to load down the TRAKIT-20's audio output.

MOTOROLA
M120

		DB-15
RX AUDIO	ORANGE	1
TX AUDIO	BLUE	2
TX INDICATOR	GREEN	3
RX INDICATOR	WHITE	4
POWER	RED	8
GROUND	BLACK	9
	SHIELD	
PTT	WHITE/BLACK	10
SPEAKER MUTE	RED/BLACK	13

Motorola M120 Interface Cable Kit

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	4
6	CBL, 8 CONN 22 AWG STR	800-1114	1'