

Motorola CDM 750/1550 (PRO3100) Interface

The following items are included in the CDM1550 interface kit:

1. CDM1550 interface cable assembly.
2. Cable tie.
3. Instruction sheet.

The following steps outline the procedure for interfacing CDM1500 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:	Low
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	Cut
JP4	BC

3. Insert the wires of the CDM1550 interface cable into the 16 pin accessory connector as shown in the following diagram:

CDM 1550 ACC 16

WHITE	11	
YELLOW	2	
ORANGE	4	
GRAY	8	
RED	13	
BLK/SHIELD	7	
BLUE	3	
GREEN	12	* Optional for data channel, see below.
BROWN	6	

4. Secure the cable to the accessory connector with the tie strap.
5. Connect the DB-15 end of the CDM1550 interface cable to the DB-15 connector on the back of the TrakIt-20. Connect the 16 pin accessory plug to the connector on the back of the radio.

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

SPECIAL RADIO PROGRAMMING:

PROGRAM THE FOLLOWING ACCESSORY PINS AS FOLLOWS:

PIN 4 – CLEAR TO TALK ACTIVE LOW
PIN 6 – RX AUDIO MUTE ACTIVE LOW
PIN 8 – TALK GROUP DETECT ACTIVE HIGH
PIN 12 – A1 CHANNEL SELECT ACTIVE LOW – FOR CHANNEL 1 DATA. *Optional.

MAKE SURE THAT THE RECEIVE AUDIO IS SET FOR **FLAT**.

If the receive audio is **not** set for FLAT and it is set for FILTERED, the RX AUDIO MUTE signal will mute the rx audio to the Trakit and it will not function. If FILTERED audio is used, the wire going to pin 6 on the radio accessory connector must be removed and JP4 must be moved to the AB position. Doing this will disable the speaker mute function of the Trakit.

If it is desired that the Trakit select channel 1 for its transmissions, then use the green wire as specified above, as well as the programming for pin 12 on the radio. If not, then the green wire need not be used and pin 12 can be left as null in the radio programming. If this method is used, users must be aware of the following items. It will work very well if the Trakit is programmed to automatically send its location information based on timers or events. The radio users may select any channel that they wish and carry on a conversation. When the Trakit sends a location message, it will select channel 1 on the radio, send the data, then revert the radio back to where the user had set it earlier. Using the channel select pin on the radio disables scan. As a result, the Trakit at the base will not be able to contact this vehicle unit unless channel 1 has been selected by the person in the vehicle.

Motorola CDM 750/1550 (PRO3100) Interface (cont'd)

Trakit 20 DB15CMD 1550 ACC 16

1	RX AUDIO	WHITE	11
2	TX AUDIO	YELLOW	2
3	TX IND	ORANGE	4
4	RX IND	GRAY	8
8	POWER	RED	13
9	GROUND	BLK/SHIELD	7
10	PTT ---(diode)----	BLUE	3
	---(doide)----	GREEN	12
13	SPKR MUTE	BROWN	6

**Motorola CDM1550 Interface Cable Kit
106-MOTOCDM**

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	CBL, 10 CONN 22 AWG STR	800-1115	1'
6	AMP PINS	234-0096	9
7	DIODE 1N914	110-0001	2