Motorola GM300 Interface

The following items are included in the Motorola GM300 interface kit:

- 1. GM300 interface cable assembly.
- 2. Cable tie.
- 3. Instruction sheet.

The following steps outline the procedure for interfacing the Motorola GM300 radio to the Traklt-20.

1. Set the Traklt-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:

Receive indicator active:

High *
PTT output active:

Enable Tx indicator as event 2:

External output active:

Low

No

Low

External output mode: Speaker mute

2. Configure the following jumpers as indicated:

JP1 Removed JP4 A-B

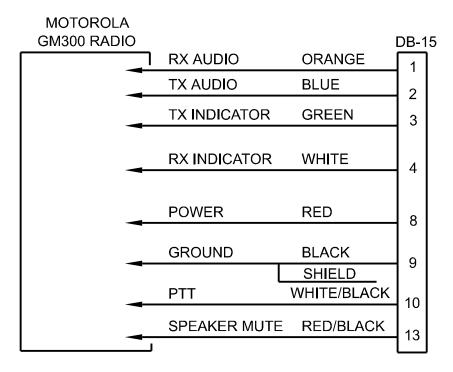
- 3. Program pin 8 of the accessory connector of the GM300 radio for CSQ output active high. *
- 4. Remove the control head and the top and bottom covers of the GM300 radio by following the instructions in the GM300 service manual.
- 5. Pass the green and red/black wires from the GM300 interface cable through the accessory connector hole in the radio chassis before connecting them to points internal to the radio
- 6. Solder the green wire of the GM300 interface cable to pin 1 of J9.
- 7. Solder the red/black wire of the GM300 interface cable to pin 1 of U501.
- 8. Insert the remaining wires of the GM300 interface cable into the radio's accessory connector as follows:

Pin#	Wire	
2	Blue	
3	White/Black Black/Shield	
7		
8	White	
11	Orange	
13	Red	

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- 9. Secure the GM300 interface cable to the accessory connector with the cable tie strap and connect the accessory connector to the radio.
- 10. Replace the control head and the top and bottom covers of the radio.
- 11. Connect the DB-15 end of the GM300 interface cable to the DB-15 connector on the back of the Traklt-20.
- 12. Check the Traklt-20's audio levels by performing the alignment procedure described in this manual.
- * Depending on logic board in radio, this may not be a programmable pin. It may be COR only active low. This application note was done with HLN8070D logic board.

Note: If the microphone being used with the GM300 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 GM300 Interface Cable Kit 106-MOTGM300

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'