Uniden SMU 4525KT/SMH 1525DT Interface

The following items are included in the Uniden SMU 4525KT/SMH 1525DT-interface kit:

1. SMU 4525KT/SMH 1525DT interface cable assembly.
2. Cable tie.
3. 7 lengths of wire with Molex pins.
4. 2 short pieces of heat shrink tubing.
5. 2M ohm resistor.
6. Instruction sheet.

The following steps outline the procedure for interfacing the Uniden SMU 4525KT/SMH 1525DT 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 mic mute gate on transmit:	No
Enable Tx indicator as event 2:	No
Delay before data send:	1 sec.
(if using a repeater)	

2. Configure the following jumper as indicated:

   JP4   B-C

3. On the TrakIt-20 board, remove JP1 and replace it with a 2M ohm resistor. Remove R49 and remove C25.

4. Remove top and bottom covers of the radio and un-snap the faceplate from the main body of the radio.

5. Remove the radio's power connector from the rear of the radio for easier access to the accessory jack. Re-install the power connector when all connections to the accessory jack are complete.
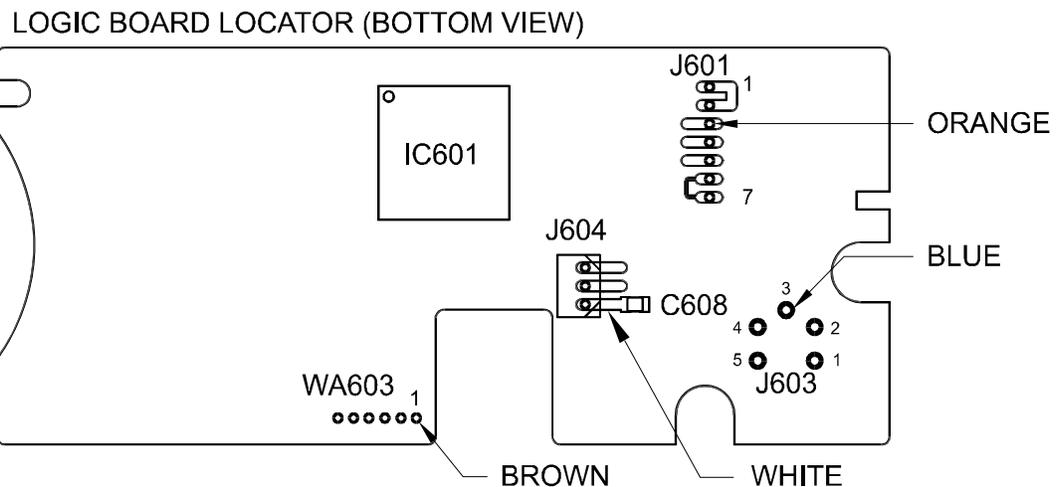
Uniden SMU 4525KT/SMH 1525DT Interface (cont.)

6. Install the wires with Molex pins into the accessory connector from the inside of the radio as follows:

Pin #	Wire
4	Red
5	Blue
6	Brown
7	Orange
8	Yellow
9	White
10	Gray

7. Locate the wire connected to pin 4 of J401 which is labeled as "MIC". Cut this wire at the center of its length.

8. Place a piece of heat shrink tubing onto both the yellow and gray wires that were installed into the accessory connector.

9. Solder the yellow wire to the side of the cut wire that goes to the main board and solder the gray wire to the side of the cut wire that goes to the faceplate.

10. Move the heat shrink tubing into place on both wires and shrink it.

11. Connect the remaining wires that were installed into the accessory connector to the following points in the radio as shown in the diagram that follows:
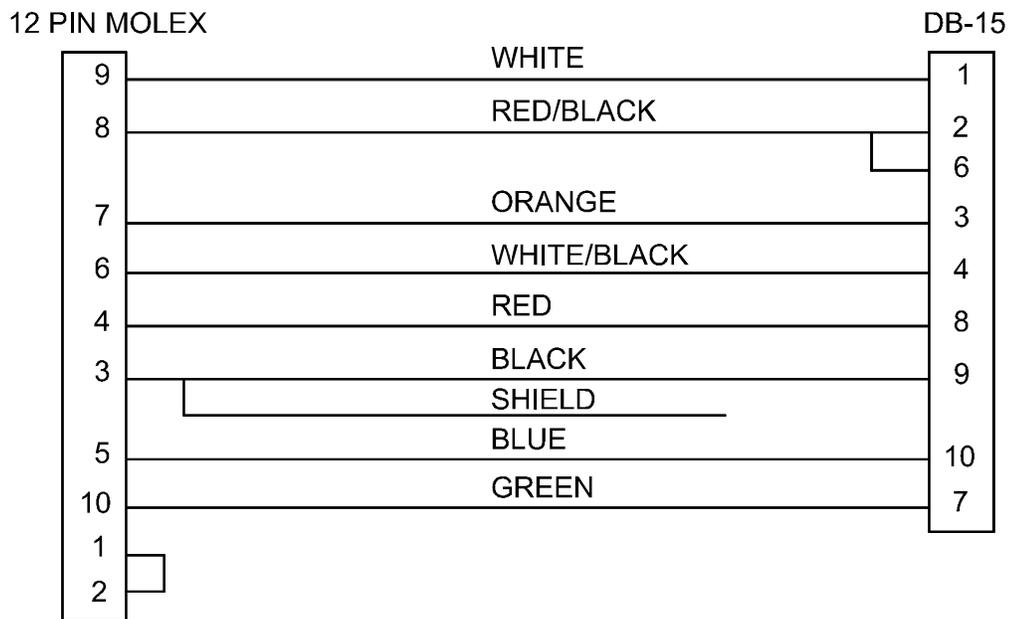
Red   positive side of C405 (on main board)
Blue   J603 pin 3
Brown   WA603 pin 1
Orange   J601 pin 3
White   J604 pin 3

LOGIC BOARD LOCATOR (BOTTOM VIEW)

Uniden SMU 4525KT/SMH 1525DT Interface (cont.)

12. Position the wires through the slot with the existing wires and replace the faceplate and the radio covers.

13. Connect the Molex plug end of the SMU 4525KT/SMH 1525DT interface cable to the 12 pin accessory jack on the back of the radio.

14. Connect the DB-15 end of the SMU 4525KT/SMH 1525DT interface cable to the DB-15 connector on the back of the TrakIt-20.

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

SMU 4525KT/SMH 1525DT Interface Cable

12 PIN MOLEX

DB-15

MOLEX	Wire	DB-15
9	WHITE	1
8	RED/BLACK	2
		6
7	ORANGE	3
6	WHITE/BLACK	4
4	RED	8
3	BLACK	9
	SHIELD	
5	BLUE	10
10	GREEN	7
1		
2		

UNIDEN SMU 4525KT/SMH 1525DT INTERFACE CABLE KIT
800-2083

Item	Description	Part No.	Qty.
1	HEAT SHRINK TUBE 3/8	199-6099	1
2	CABLE TIE (SHORT)	200-0081	1
3	WIRE, 22 AWG RED	222-0014	9"
4	WIRE, 22 AWG BLUE	222-0015	9"
5	WIRE, 22 AWG YELLOW	222-0018	9"
6	WIRE, 22 AWG GREY	222-0019	9"
7	WIRE, 22 AWG BROWN	222-0020	9"
8	WIRE, 22 AWG ORANGE	222-0023	9"
9	WIRE, 22 AWG WHITE	222-0026	9"
10	WIRE, 22 AWG WHITE	222-0026	3"
11	SCREW/CLIP KIT	231-0014	1
12	MOLEX PIN MALE	231-0034	10
13	CONN DB15 MALE	231-0035	1
14	COVER DB15	231-0036	1
15	MOLEX PIN FEMALE	231-0038	7
16	CONN 12 POS MOLEX	231-0059	1
17	2M 5% 1/4 W RES	312-0048	1
18	CBL, 8 CONN 22 AWG STR	800-1114	1'