E.F. Johnson Summit DM Interface

The following items are included in the Summit DM interface kit:

1. Summit DM interface cable assembly.
2. Instruction sheet.

The following steps outline the procedure for interfacing Summit DM 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:	Low
PTT output active:	Low
Enable Tx indicator as event 2:	No
External output active:	Low
External output mode:	2ND PTT

2. Configure the following jumpers as indicated:

JP1	Cut
JP4	BC

3. Connect the DB-15 end of the Summit DM interface cable to the DB-15 connector on the back of the TrakIt-20. Connect the DB-25 end of the cable to the DB-25 accessory cable on the back of the radio.

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

TRAKIT 20 DB15   SUMMIT U/I DB25

1	RX AUDIO	WHITE	7
2	TX AUDIO	ORANGE	13
3	TX IND	YELLOW	15
4	RX IND	VIOLET	16
8	POWER	RED	22
9	GROUND	BLACK	19
10	PTT	BLUE	3
13	DATA PTT	GREEN	1

E.F. Johnson Summit DM Interface (cont'd)

This interface is set up for the use of a data channel to be used for the Trakit data.
It is not necessary to use this feature if it is not needed or available. The 2ND PTT output
can alos be used to mute the speaker of the radio. This would require different radio
programming as well as different wiring for the green wire (speaker mute).

RADIO PROGRAMMING NOTES:

Under main radio parameters, set the UI OPTIONS for AUDIO RX and AUDIO TX both
for MODE 1.

PTT REQ N = DATA REVERT
INPUT A   = DATA ARQ
OUTPUT A = CLEAR TO SEND
OUTPUT B = RX DATA GROUP

Assign the data system/group under the banks. Under the UI OPTIONS on the data
system, assign AUDIO TX as MODE 3. Also, designate the appropriate group in that
system for data.

Voice must be on one system, and the data must be on another system. Therefore,
system scan is needed. This is because the Summit TX AUDIO MODES are selected
on a system wide basis. MODE 1 is the default mode for normal voice operations.
MODE 3, and other modes are for routing the transmit audio from external devices into
 the radio.

E.F. Johnson Summit DM Interface Cable Kit
106-TKEFJSUM

Item	Description	Part No.	Qty.
1	SCREW/CLIP KIT	231-0014	2
2	CONN DB15 MALE	231-0035	1
3	COVER DB15	231-0036	1
4	CBL, 8 CONN 22 AWG STR	800-1115	1'
6	CONN DB25M	231-0005	1
7	COVER DB25	231-0015	1