SC51 - Kenwood TRC/TK80 interfacing

SC51 CN2   Radio internal connections
Pin No.

1 - Ground   Connect to radio ground.

2 - Mute   Connect to junction of R276/R277/R405.

3 - Scan Pulse   Connect to mic socket pin 4 (UP) if you want scanning. The
                                SC51 will start scanning when put into MUTE mode

5 - Voice PTT Out   Break PTT circuit from mic socket. Connect this pin to radio
                                side of break.

9 - Selcall PTT Out   Connect to pin 6 of Accessory connector 2 (ACC2).

10 - Transmit audio o/p   Connect to pin 7 of Accessory connector 2 (ACC2).

11- PTT in   Connect to mic socket pin 2 (PTT) side of break.

12 - Audio alarm o/p   Connect to junction of R278/C402.

13 - RX audio i/p   Connect to pin 3 of Accessory connector 2 (ACC2).

14 - DTMF audio i/p   Connect to mic socket pin 1 (MIC).

15 - +8v to + 12v i/p   Connect to radio +8v power rail.

16 - Ground   Connect to radio ground.

Only connect to the other pins if you require the function of that pin.

With the PTT line broken and the SC51 wired as above then the radio can be killed by sending a "LOCK" code to the radio. This will disable the PTT and mute the audio.

The radio can be "unlocked" by entering the unlock code via a DTMF microphone in the form of *12345678# where 12345678 is the actual code. Note: On the SC51 the lock and unlock codes can be different.

When the radio is "locked" it will still respond to Beacon Request and GPS Data Request types of calls.

If using the original Kenwood DTMF microphone make the following modifications:
a) disable the automatic PTT when pressing a key on the microphone keypad.
b) increase the DTMF level from the microphone by modifying the output level control.