Jenal Communications

"serving the communications industry since 1994"

Modifications for using the SC2 or SC3 with the Codan X2

1) Disconnect the wires from pins 5 and 7 of the microphone socket, join the wires together and insulate.

2) Fit a 3.5mm stereo jack socket into the spare hole beside the extension speaker socket.

3) Disconnect the wires from pin 1 of the microphone socket, extend it and connect to the "Ring" terminal of the 3.5mm socket. Fit a ferrite bead over the wire before soldering.

4) Connect the P1 end of R7 to the "Tip" terminal of the 3.5mm socket. Fit a ferrite bead over the wire before soldering.

5) Connect the "Ground" terminal of the 3.5mm socket to the Anode end of D1.

6) Disconnect the wire from pin 6 of the microphone socket and insulate.

7) Audio Alarm line - Connect pin 5 of the microphone socket to the junction or R4 / R5 / C5 / C7 on the Front Panel board.

8) Mute line - Connect pin 7 of the microphone socket to IC308 pin 13 on the RF/Exciter board.

9) Rx Audio line - Connect pin 6 of the microphone connector to TP303 (RX Demod) on the RF/Exciter board.

10) Power supply feed - Connect pin 1 of the microphone connector to + 10 volt (TP402 on the RF/Exciter board).

11) Wire SC2/SC3 connector as follows, (rewire original mic to use pins 2,3 & 4 only):

1) Red - Power
2) Green - PTT
3) Shield - Ground
4) Yellow - Tx Audio
5) White - Audio Alarm output
6) Blue - Rx Audio
7) Purple - Mute

12) Programme SC2/SC3 for required functions.

13) Adjust VR3 for suitable Audio Alarm Level.

14) Adjust VR2 for suitable transmit power output. We recommend adjusting the power output to be no more than 70% of full power when sending a selcall. A more preferable level is 30% to 40% of full output power.

Note: The X-2 can now be programmed using a Codan 9313 or NGT programming lead. It is important to unplug the SC2 or SC3 microphone when programming the radio.