Jenal Communications

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Modifications for using the SC2 or SC3 with the Icom M710

The M710 microphone socket should be rewired as follows:

Pin No	Connect to
1	Mic (Tx) Audio as now wired
2	Alarm Audio - connect to J2003 pin 1
3	Rx Audio - connect to IC12a pin 1
4	Mute Line - connect to IC12a pin 7 (via a diode)
5	PTT as now wired
6	Ground as now wired
7	Scan Line - connect to J2701 pin 5 (via a diode)
8	+8vdc - connect to IC2006 pin 2

Description of pins

Pin 1 : Audio output from both the microphone insert and the FSK generator

Pin 2: Alarm audio output from microphone. This line also carries the FSK generator output (but not the microphone output)

Pin 3: Receive audio input into the FSK detector

Pin 4: Mute line - a low on this line switches IC12a and disconnects the receiver audio output thereby muting the receiver. (A diode should be wired so that it's cathode is on pin 4 and it's anode on IC12a pin 7).

Pin 5: PTT - a low on this line puts the radio into transmit mode

Pin 6: Ground

Pin 7: Scan line - a low on this line pulses the "UP" line on the channel selector thereby producing pseudo scanning. The pulses are active low, 100mS duration repeated every 625mS. This allows the scanning of 8 channels every 5 seconds. (A diode should be wired so that it's cathode is on pin 7 and it's anode on J2701 pin 5).

Pin 8: 8 volt DC power feed into the microphone

Note: pin 2 (Alarm audio) should ideally be wired onto a point which is inactive when the radio is in transmit mode. The audio power amplifier (IC 2007) is always active and therefore as well as hearing alarms through the speaker the user will also here the Selcall/Telcall being sent.