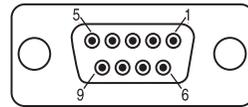


D-Range Connector Wiring

The following tables and diagrams shows the pin designations of the 9 way D-range socket, as viewed from the rear of the radio.

T2000-A66 PCB (no T2000-A50 fitted):

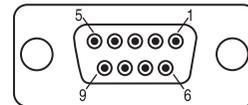
SKT1 pin	Signal
1	unused
2	TXD (transmit data - serial data output from UART PCB)
3	RXD (receive data - serial data input to UART PCB)
4	unused
5	DGND (digital ground)
6	unused
7	
8	
9	



9 way D-range Connector SKT1
(viewed from rear)

T2000-A66 PCB with T2000-A50 fitted:

S21 pin	Signal
1	GND (ground)
2	MIC (input for directional microphone audio)
3	GND (ground)
4	RXD (receive data - serial data input to UART PCB)
5	TXD (transmit data - serial data output from UART PCB)
6	FT-SWITCH (requests handsfree transmission)
7	VOX (output signalling valid VOX operation)
8	GND (ground)
9	DGND (digital ground)



9 way D-range Connector S21
(viewed from rear)

Servicing

Refer to the M2000-00-XXX Series II Service Manual (issue 301, or later).

Introduction

The T2000-A66 single port UART Interface Module (UIM) enables a T2020 or T2040 Series II radio to be controlled via a computer, allowing either semi or fully automatic communication systems to be developed.

The T2000-A66 can also be used in conjunction with a T2000-A50 handsfree kit containing the T2000-A50 handsfree PCB IPN 225-01210-04, or later. In this instance, the data interface decoupling PCB assembly is not used. Refer to instruction (B), "T2000-A66 With T2000-A50 Handsfree PCB Fitted". Note that this configuration can only be fitted to logic PCB IPN 220-01344-02, or later, and is only compatible with the radio and PGM software versions shown in the following table:

Radio	Radio Software Version	PGM Software Version
T2030	3.25 or later	1.46 or later
T2035	3.30 or later	
T2040	5.41 or later	2.58 or later

Parts Required

The T2000-A66 kit contains the following items:

Qty	Description
1	T2000-A66 single port UART PCB assembly
1	Data interface decoupling PCB assembly
2	M2.5x10mm pan Pozi Taptite screws
4	M2.5 shakeproof washers
2	M2.5 nuts
2	female screw locks

Fitting

A T2000-A66 PCB Only (no T2000-A50 fitted)

Refer to Figure 1.

- Remove the top cover of the radio by unscrewing the four bottom cover screws, unscrew the logic PCB and fold out.

Unclip the D-range blanking plate in the rear of the T2000 chassis.

- #### T2000-A66 Mounting

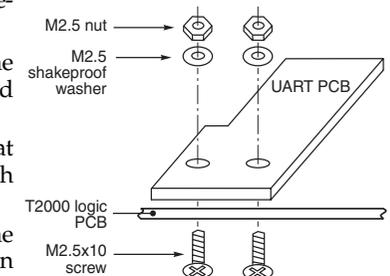
Position the T2000-A66 PCB on the top side of the logic PCB, as shown, matching P1 on the bottom side of the T2000-A66 PCB to the pads labelled 'P1' on the logic PCB.

Use two M2.5x10mm screws, nuts and shakeproof washers to secure in place.

Note: The screws are fitted from the *bottom* of the logic PCB, and secured with the nuts and washers on the *top* side of the UART PCB.

Torque the screws to 2.5in.lb. This ensures that the pressure connector, P1, makes contact with the corresponding pads on the logic PCB.

Caution: Over-tightening the screws will cause the T2000-A66 PCB to bend, resulting in possible track damage.



3. T2000 Data Interface Decoupling PCB Mounting

Refer to the adjacent diagram.

Fit the data interface decoupling PCB to the T2000 chassis, from the inside rear of the radio, as shown.

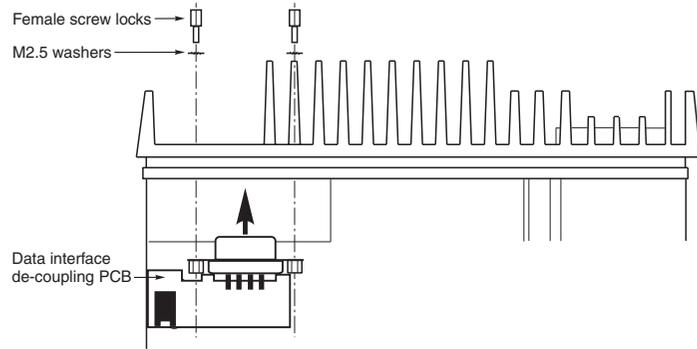


Figure 1: Fitting the Decoupling PCB

Secure the D-range in position using the screw locks and two of the shakeproof washers provided.

4. Fold the T2000-A66 loom as shown below, then plug onto SKT2 on the data interface decoupling PCB.

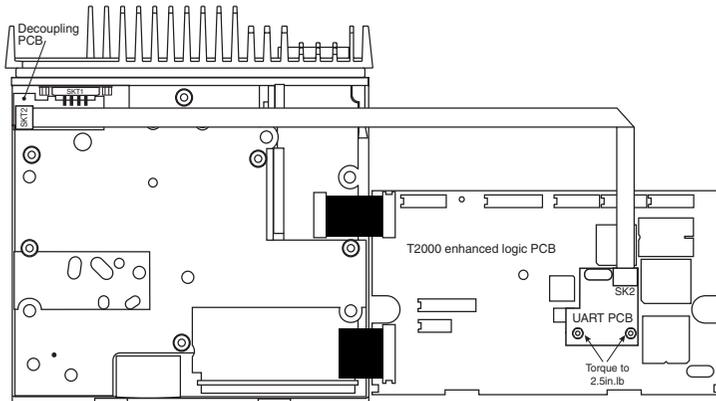


Figure 2: T2000-A66 PCB Mounting

5. Fold the logic PCB back in position, secure using the three logic PCB retaining screws and refit the top cover.

Note: Check that the loom is not pinched by the cover or screws during reassembly.

B T2000-A66 PCB With T2000-A50 Fitted

1. Follow steps A (1) and (2).
2. Discard the data interface decoupling PCB, the screws and two shakeproof washers.
3. Fit the T2000-A50 handsfree PCB according to the T2000-A50 fitting instructions.
4. Fold the T2000-A66 loom as shown in Figure 3, then plug onto SKT2 on the T2000-A50 handsfree PCB.

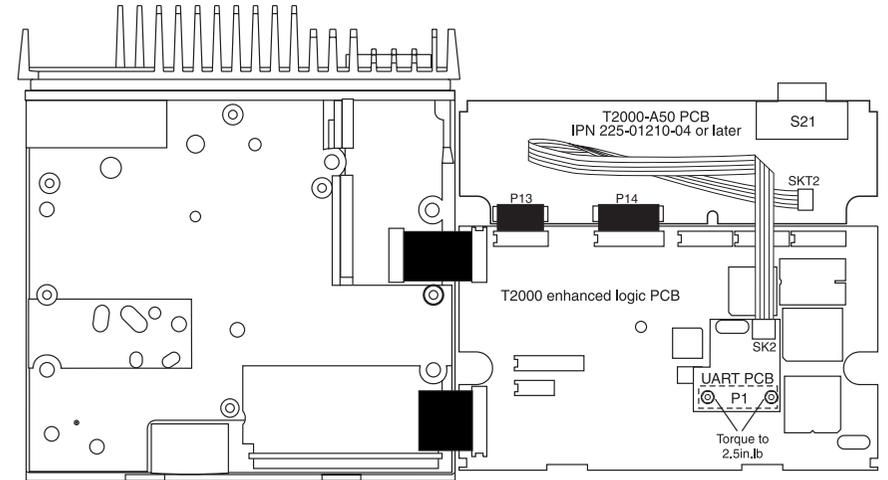


Figure 3: T2000-A66 PCB Mounting (T2000-A50 fitted)

5. Refer to Figure 4. Disassemble the 9 way D-range plug assembly included in the T2000-A50 handsfree kit and add wires to pins 4, 5 and 9, as shown. These three wires provide an RS232 compatible serial interface, and connections for a typical 9 way RS232 D-range socket are also shown.

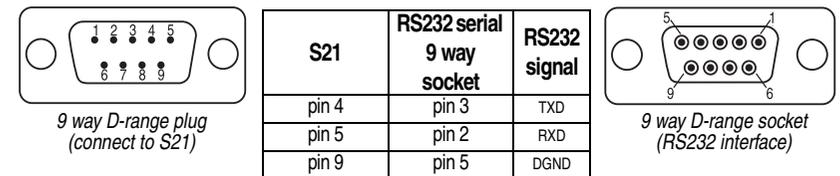
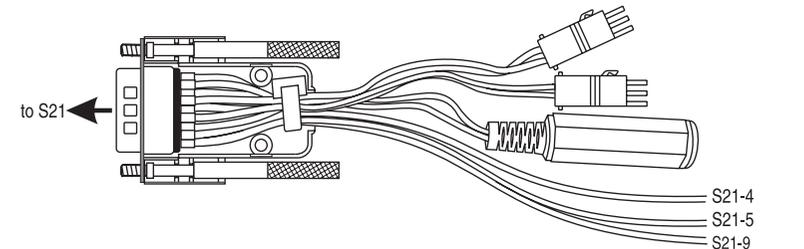


Figure 4: T2000-A50 9 Way D-Range Plug Wiring Modifications