



13. Front and rear panel sockets

Only suitably qualified personnel should use the information contained in this section. Failure to observe the stated and implied criteria could result in damage to the transceiver.

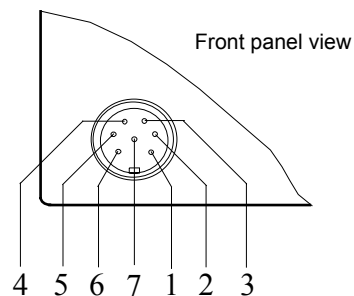
Details are provided on the following sockets:

- microphone socket
- options SD and PP - external alarm and battery power output socket
- option PS - miscellaneous facilities socket
- antenna control socket
- remote control socket.

Microphone socket

This socket is located on the front panel of the transceiver. It is used to connect the microphone to the transceiver.

The transceiver speaker is controlled by a link in this plug. If the microphone is not connected to the transceiver, the internal speaker is disconnected.



Pin No.	Designation	Pin No.	Designation
1	PTT ground	5	Speaker connection
2	PTT (active low)	6	Audio output
3	Microphone input	7	Audio ground
4	Microphone ground		

If you wish to hear the transceiver speaker with the microphone disconnected, link together pins 5 and 7.



Options SD and PP - external alarm and battery power outlet socket

This socket is located on the rear panel of the transceiver. It can be used to accommodate two facilities:

- **Option SD—selective call alarm**

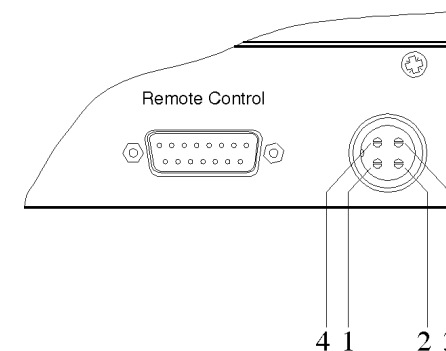
This facility allows an external alarm device to be connected to the transceiver. When a selective call is detected, internal relay contacts close across pins 2 & 3.

The contacts are rated for 1A at 50V DC.

- **Option PP—unswitched battery power source for external equipment**

This facility allows an external device to be connected to, and draw power off, the transceiver. When the transceiver is switched off, the power source is still available at this socket.

This power source is unswitched battery voltage fused at 5 A.

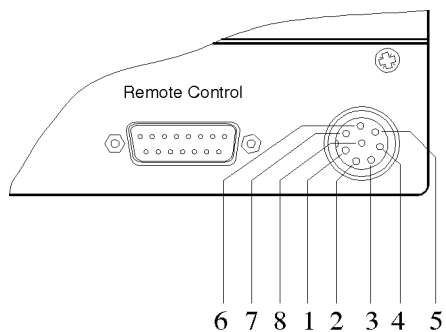


Pin No.	Designation	Pin No.	Designation
1	Battery voltage (⊕ve)	3	Relay contact
2	Relay contact	4	Ground



Option PS - miscellaneous facilities socket

This socket is located on the rear panel of the transceiver. If option PS is fitted to your transceiver, the *Option SD and PP socket* cannot be fitted.



Pin No.	Designation	Pin No.	Designation
1	Ground	5	Alarm tones input
2	Rx output (1.5 Vpp)	6	PTT (active low)
3	Tx input	7	Scan (+10V output)
4	Quiet line (mute +10V)	8	Switched fused battery voltage



Antenna control socket

This socket is located on the rear panel of the transceiver, and allows you to connect an automatic tuning antenna to your transceiver.

There are two options available which determine the connections made to the pins on this socket:

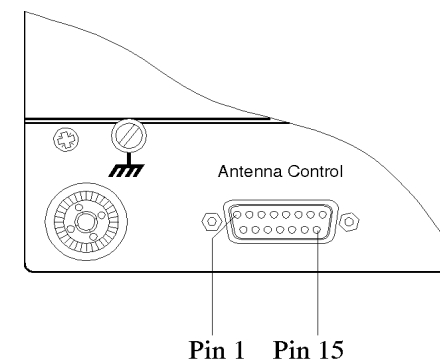
- **Antenna control—standard**

This option allows an 8551 antenna driver or 4203 and 9103 antenna tuner to be connected to the transceiver.

- **Antenna control—option AD**

Fitting of this option is identified with a WARNING label fitted above the antenna control socket.

This option allows an 8558 automatic tuning antenna to be connected to the transceiver.



Antenna control—standard

Pin No.	Designation	Pin No.	Designation
1	Channel number Bit 3 (oc)	9	Channel number Bit 1 (oc)
2	Channel number Bit 4 (oc)	10	Channel number Bit 2 (oc)
3	N.C.	11	Tuned in (active low)
4	Tune in/out (active low)	12	Switched fused battery voltage
5	Scan (Active antenna, oc, active low)	13	Switched fused battery voltage
6	N.C.	14	Ground
7	N.C.	15	Ground
8	PTT out (+10V 1k Ω source)		

(oc) = Open Collector (Active high)



Antenna control—option AD

Pin No.	Designation	Pin No.	Designation
1	Channel number Bit 3 (oc)	9	Channel number Bit 1 (oc)
2	Channel number Bit 4 (oc)	10	Channel number Bit 2 (oc)
3	Disable (ground to disable)	11	Switched +12V Motor
4	Load	12	Switched fused battery voltage
5	+ 12V Scan	13	Switched fused battery voltage.
6	Motor phase 1 (oc)	14	Ground
7	Motor phase 2 (oc)	15	Motor phase 3 (oc)
8	Motor phase 4 (oc)		

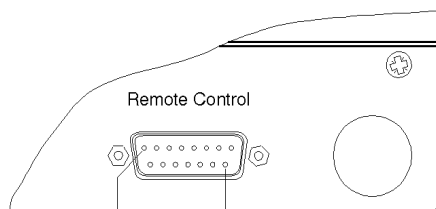
(oc) = Open Collector (Active high)



Remote control socket

This socket allows the following peripherals to be connected to the transceiver:

- remote control heads 8532 and 8533
- 8571 Remote control interface
- IPC-500 telephone interconnect.



Pin 1 Pin 15

Pin No.	Designation	Pin No.	Designation
1	Loudspeaker	9	Ground
2	Remote PTT (active low)	10	Ground
3	Receiver audio input *	11	Transmit audio input (1.5V pp)
4	Power on (active low, pulse)	12	Receiver demodulator output (1.5V pp)
5	Data (I ² C Bus, 5V)	13	Receiver audio output *
6	Data line enable (I ² C Bus, 5V)	14	Interrupt (I ² C Bus, 5V)
7	Clock (I ² C Bus, 5V)	15	Switched fused battery voltage.
8	Transmit lamp		

* Special: Adjusted to suit attached equipment.

