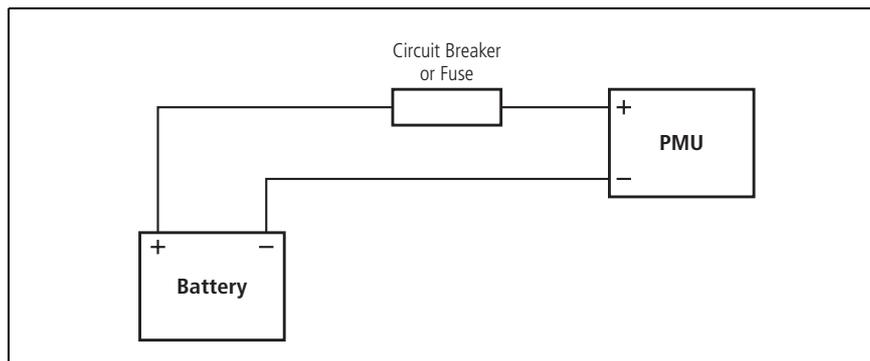


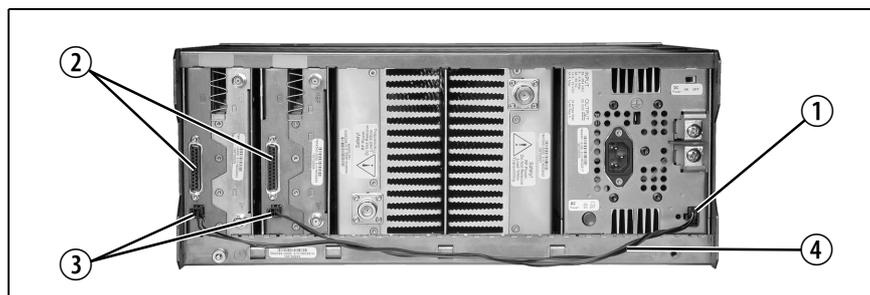
Figure 7.6 Recommended DC power connection



PMU Auxiliary DC Output to Reciter

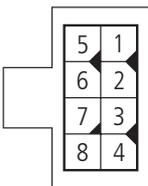
The PMU can provide an auxiliary DC output when it is fitted with the optional auxiliary power supply board. This board is available with an output of 13.65VDC, 27.3VDC, or 54.6VDC (depending on the model), and is current limited to 3A, 1.5A or 750mA respectively. This optional power supply is available on the auxiliary DC output connector ① on the rear panel. DC from this output can be supplied to the +AUX_V pin on the system interface connector ② on the reciter via the auxiliary DC input connector ③ on the system interface board (see “[Reciter Auxiliary DC Input from PMU](#)” below). The auxiliary DC power cables ④ are described in “[Auxiliary DC Power Supply Connections](#)” on page 87.

Figure 7.7 Auxiliary DC power supply connections



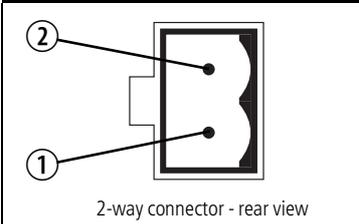
Two different types of auxiliary DC output connector have been fitted to the PMU. The pin allocations for the 8-way connector fitted to PMUs manufactured before August 2004 are given in the following table. Note that pins 1 to 4 and pins 5 to 8 on this connector are linked.

Pin	Description	Links
1	+V output	●
2	+V output	●
3	+V output	●
4	+V output	●
5	ground	●
6	ground	●
7	ground	●
8	ground	●



8-way connector - rear view

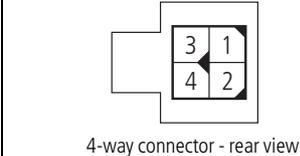
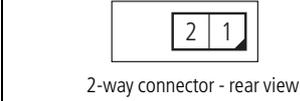
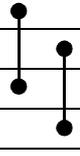
The pin allocations for the 2-way connector fitted to PMUs manufactured from August 2004 onwards are given in the following table.

	Pin	Description
 <p>2-way connector - rear view</p>	1	+V output
	2	ground

Reciter Auxiliary DC Input from PMU

The system interface board in the reciter has an auxiliary DC input connector. DC from the auxiliary DC output on the PMU can be supplied to the +AUX_V pin on the system interface connector via this input (see [“PMU Auxiliary DC Output to Reciter”](#) above).

The pin allocations for the auxiliary DC input on the system interface board are given in the following table. Both 2-way and 4-way connectors are used, depending on the model of board. Note that pins 1 & 3 and pins 2 & 4 on the 4-way connector are linked. Refer to [“System Connections”](#) on [page 89](#) for the pin allocations for +AUX_V on each system interface board.

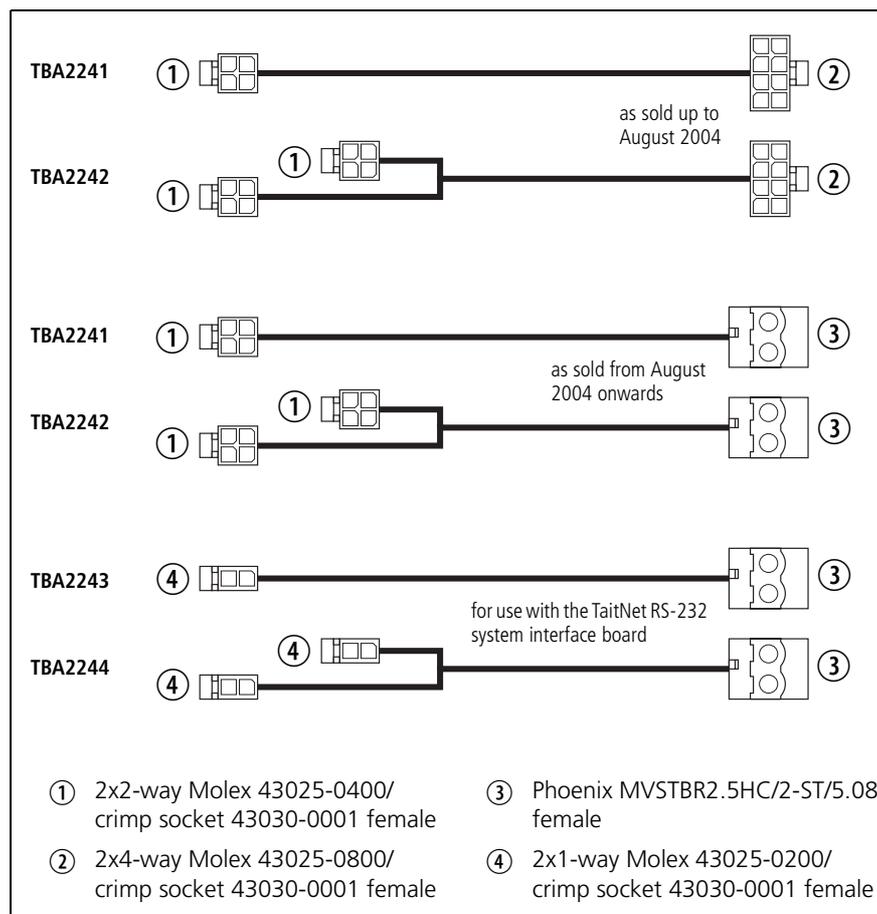
	Pin	Description	Links
 <p>4-way connector - rear view</p>  <p>2-way connector - rear view</p>	1	+V input	
	2	ground	
	3	+V input	
	4	ground	

The DC output from the PMU is 13.65VDC, 27.3VDC, or 54.6VDC (depending on the model). Although this power output is isolated, the negative side of the supply is grounded on the system interface board to give a +V output.

Auxiliary DC Power Supply Connections

[Figure 7.8 on page 88](#) shows the standard Tait auxiliary DC power cables available. Details of the individual connector types are also provided in case you want to make up your own cables. Note that the PMU connector used in the TBA2241 and TBA2242 cables was changed in August 2004 to match the change of connector in the PMU. Contact your nearest Tait Dealer or Customer Service Organisation for details on the full range of wiring kits available.

Figure 7.8 Auxiliary DC power cables



7.3 RF Connections

RF Input and Output The RF input to the TB8100 BSS is via the lower BNC connector on the rear panel of the reciter. The RF output is via the N-type connector on the rear panel of the PA (refer to [Figure 7.3 on page 83](#)).

We recommend that you use dual-screened coaxial cable such as RG223 for the BNC/TNC connections, and RG214 for the N-type connections.

When the base station is used in simplex mode using a single antenna with a coaxial changeover relay, the isolation of this relay must be ≥ 40 dB.