

1 T855/856/857 Installation

1.1 Rack Mounting

The T855 receiver, T856 transmitter and T857 exciter are designed for use in a standard 483mm rack frame using a Tait T800 Series guide which locates and mates the rear D-range connectors (refer to Figure 1.1, Figure 1.2 and Figure 1.3).

A T800 Series guide is supplied with each unit. The guide is located in the rack frame with four screws, two at the rear and two at the front, and the T800 unit is secured into the guide with two front panel mounting screws.

A rear mounted N-type connector is used for RF input on the T855 receiver and RF output on the T856 transmitter, while the T857 exciter RF output is via the front panel SMC connector. All DC, audio and control connections are via the rear mounted D-range connector. An additional rear D-range connector (T800-03) is fitted when remote multichannel operation, or additional control or low frequency lines are required.

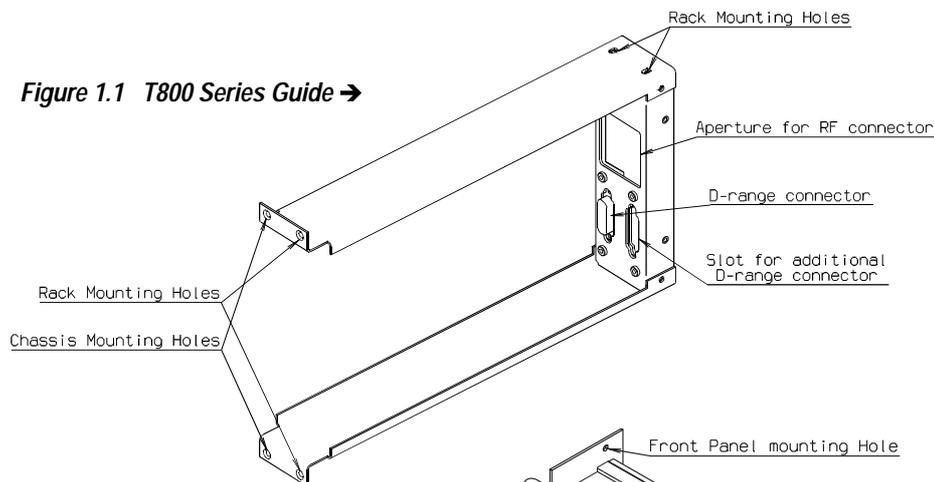
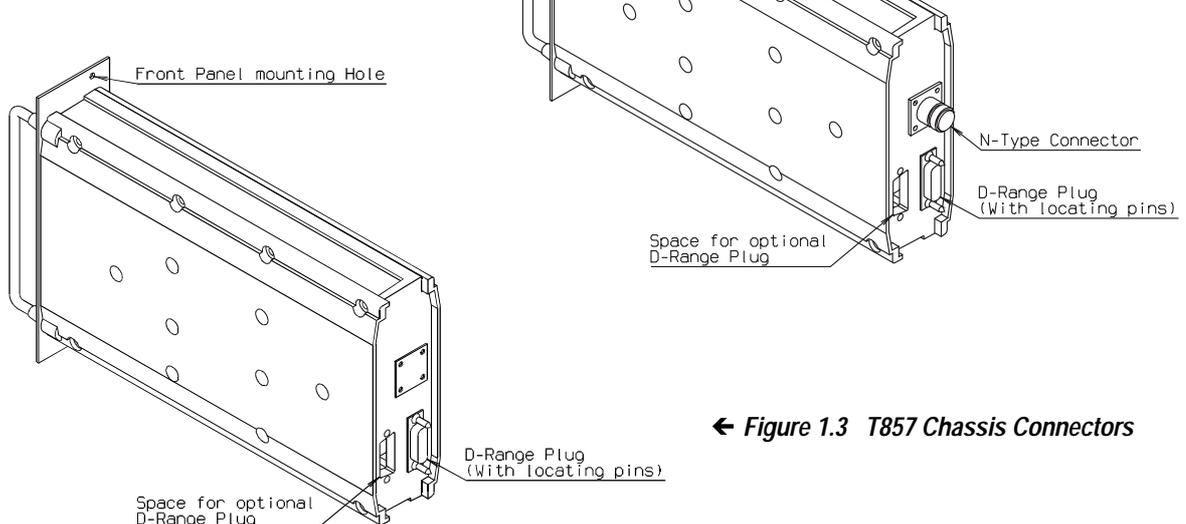


Figure 1.2 T855/856 Chassis Connectors →



← Figure 1.3 T857 Chassis Connectors

1.2 Rack Wiring

Wire the D-range connector as shown in Figure 1.4 or Figure 1.5. Ensure that the cables are not subjected to any stresses due to tight bends or incorrect lengths.

The RF coaxial cable to the N-type connector should be free from acute bends or twists. If access to the rear of the rack frame is restricted, the cable should be long enough to permit full withdrawal of the chassis from the guide.

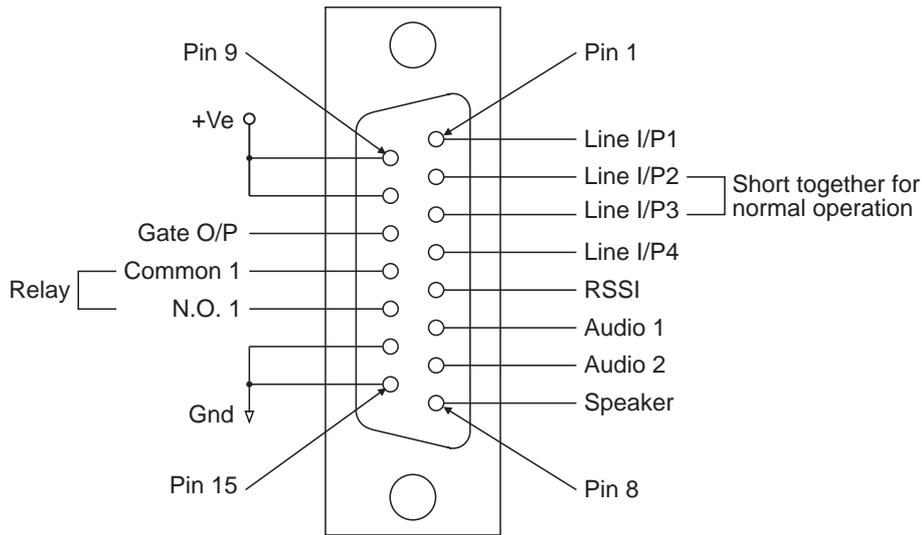


Figure 1.4 T855 D-Range Wiring - Rear View

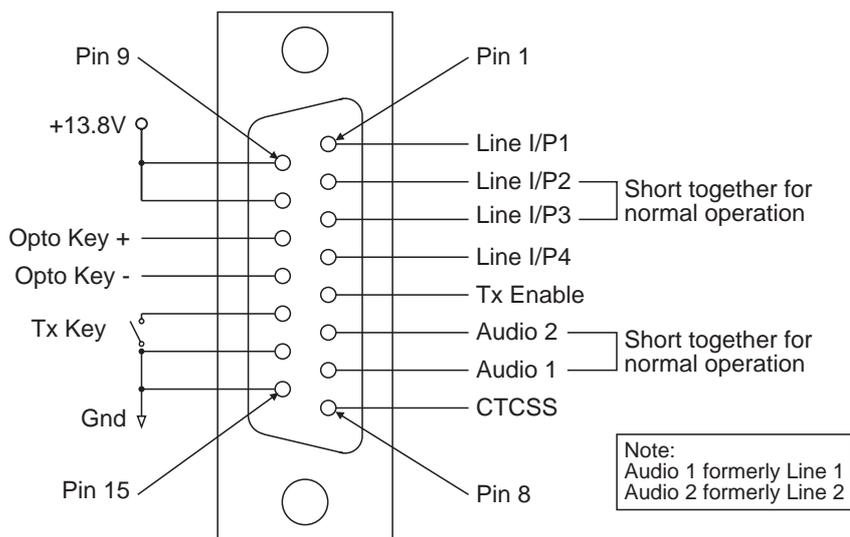


Figure 1.5 T856/857 D-Range Wiring - Rear View

1.3 T856/857 Non-standard D-Range Connections

(Refer to the audio processor circuit diagram and Figure 1.5.)

To enable non-standard connections to be made via the existing D-range connector, pins 2, 3, 11 and 12 have been provided with I/O pads and removable links in the form of zero ohm resistors (R132, R133, R134 and R135).

In the standard configuration pins 2 and 3 are shorted together externally. To make use of these pins, remove R134 and R135, then link "LINE-I/P-2" to "LINE-I/P-3" internally. Connections made to pads 101 and 102 will now be available at D-range pins 2 and 3 respectively. However, in this case, external access to the centre of the line transformer will be disabled.

Similarly, the removal of R132 and R133 will enable connections made to pads 104 and 105 to be available at D-range pins 11 and 12 respectively. However, in this case, external access to the optocoupler will be disabled.

1.4 Power Supply

If a power supply other than an appropriate Tait model is used, ensure that it is capable of providing enough current to drive the T800 system and is also free from excessive ripple or noise.

The system should be protected by the use of appropriately rated fuses in the power supply.

Note: It is particularly important when the prime power source is a battery that fuses be employed in all supply lines.

1.5 Reverse Polarity Protection

A shunt diode is fitted to all T855 receivers, T856 transmitters and T857 exciters for protection against connection to a power supply of incorrect polarity.

Note: A fuse must be fitted in the power supply line for the diode to provide effective protection.

