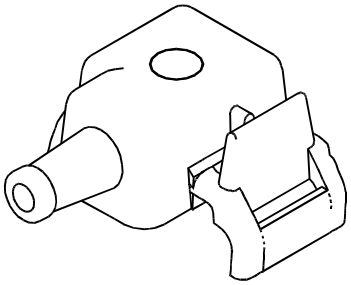
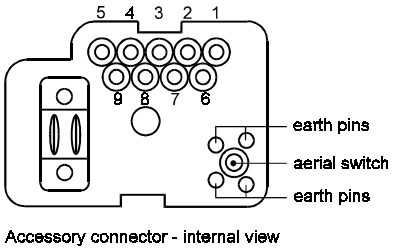
7.5 T3000 Accessory Connectors

The T3000-8010 and T3000-8020 accessory connectors clip onto the top of the radio and are used to connect external accessories to the T3000 radio.

The T3000-8010 can be used with external RF accessories and has an additional aerial switch pin. This is removed if an external antenna is not used.

Details of accessory connector signals available are found in Section 3.4, and the following diagram shows the accessory connector and pin designations.





Accessory connector - internal view

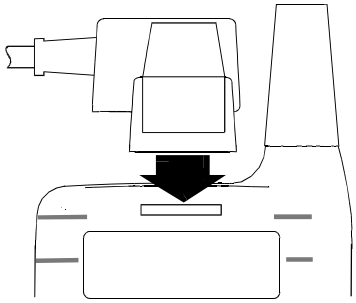
7.5.1 Fitting The Accessory Connector

Turn off the radio.

Hold the accessory connector above the top of the radio.

Locate the tongue on the rear leg of the connector in the slot at the top rear of the radio (above the identification label), as shown.

Tilt the connector down at the front, until the tongue at the front engages securely with the slot above the radio's speaker grill.



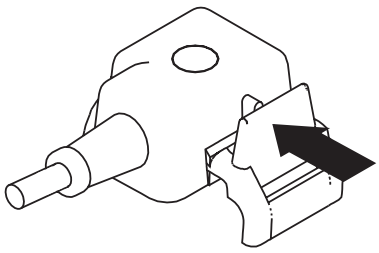
7.5.2 Removing The Accessory Connector

Turn off the radio.

Hold the radio firmly with the back facing you, and press forward on the thumbtag at the rear of the connector.

Do not apply pressure to the front of the connector, as this will prevent it from releasing.

The front of the connector will now release and lift from the radio and the entire connector will lift clear.



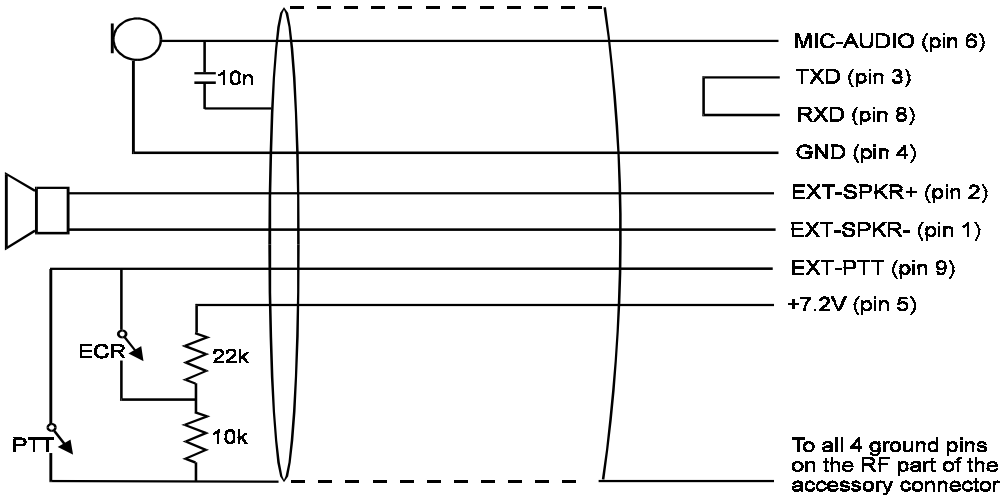
7.5.3 Accessory Connector External Speaker/Microphone Modes

The T3000 supports three speaker/microphone modes selected by connections inside the accessory connector:

- external speaker/microphone mode
- external speaker mode
- external microphone mode

The following diagram shows use of the accessory connector wiring with an external speaker and microphone.

Note: It is essential that the cable is screened and earthed as shown. The microphone return may be made via an additional wire on the screened cable.



1. External Speaker/Microphone Mode

Connect pins 3 and 8 together inside the accessory connector (TXD and RXD).

This disables the internal microphones and internal audio amplifier, while enabling the external audio amplifier. The external microphone audio is enabled permanently.

2. External Microphone Mode

Connect pins 5 and 8 together inside the accessory connector (+7.2V-AUX and RXD).

This disables the internal microphones only.

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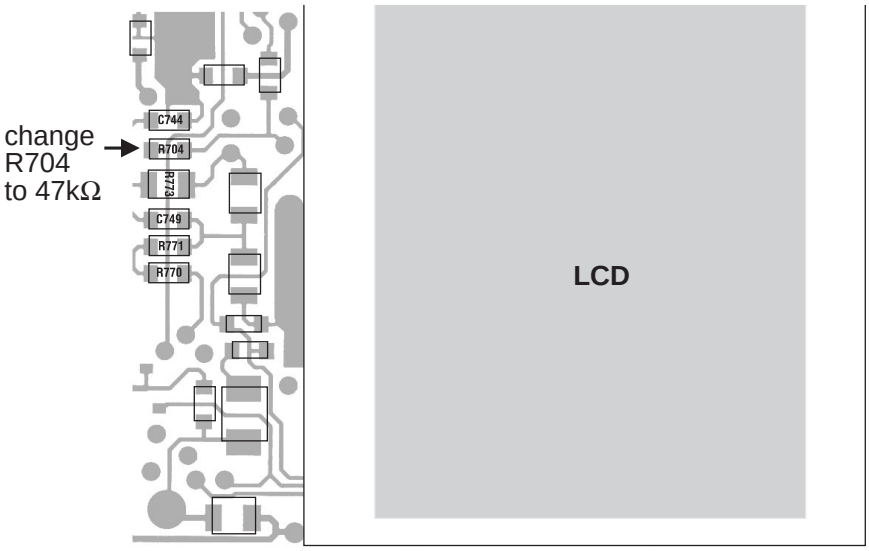
3. External Speaker Mode

Connect pins 3 and 8 together (TXD and RXD).

Connect pins 4 and 6 together (GND and MIC-AUDIO).

T3010 radios:
Change R704 on the bottom side of the T3000 control PCB to 47kΩ, as shown:



T3010 Control PCB - Bottom Side (PCB 220-01269-06)

Note: Once R704 is changed to 47kΩ, the internal microphones will remain on when some external speaker/microphones are fitted.

The internal microphones and internal audio amplifier are disabled, while the external audio amplifier is enabled, as in the first mode. Connecting MIC-AUDIO to ground turns on the internal microphones again.

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