

## 8.6 T2000-07 DTMF Microphone Kit

The T2000-07 DTMF microphone has an omni-directional dynamic element and internal DTMF tone generator. The DTMF tone level is adjustable by an internal potentiometer (VR1) which is accessible when the rear case is removed.

The DTMF microphone is intended for use with all T2000 Series II radios.

### 8.6.1 Fitting

The T2000-07 has grommets for both Series I and II radios fitted to the microphone cord.

- 1 Remove the Series I grommet from the microphone cord.
- 2 Fit the DTMF microphone lead to the T2000 control head microphone socket, then push the grommet in place.

### 8.6.2 Operation

- 1 The microphone LED is used to indicate 'key pressed'. The LED is on for normal operation and is off when a DTMF key is pressed.
- 2 The PTT switch changes the microphone input to the radio from DTMF tone to the dynamic microphone. This is to prevent the microphone signals distorting the DTMF tones.
- 3 The operation of a DTMF key automatically operates the transmitter PTT and holds it on for a short time after the release of the DTMF key. This is to hold the transmitter on during interdigital pauses.

### 8.6.3 T2000-07 Set-Up

Remove the microphone back cover and set the DTMF tone level to approximately 80% deviation ( $\pm 4\text{kHz}$  for wide band or  $\pm 2\text{kHz}$  for narrow band).

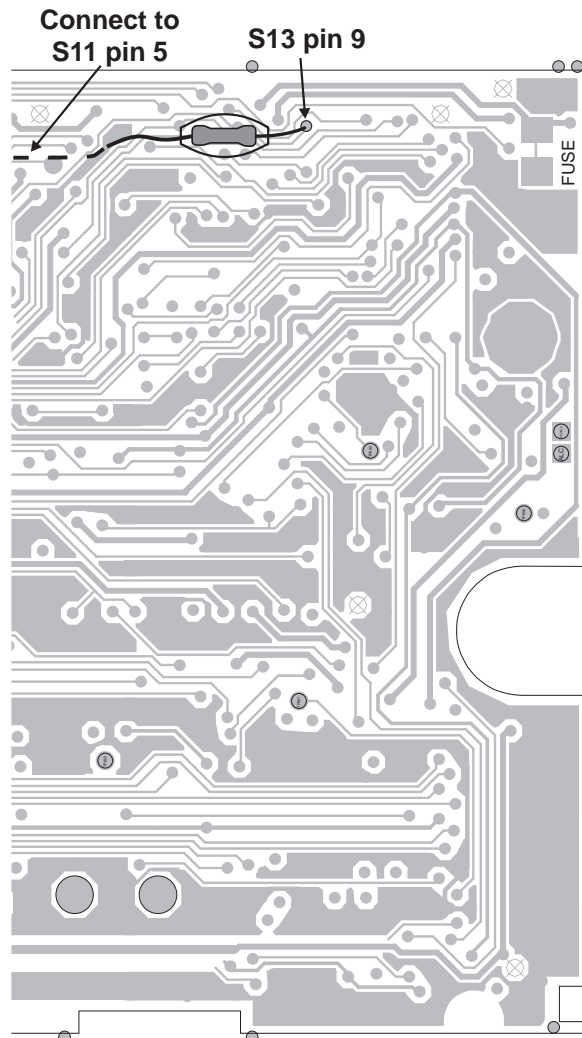
#### DTMF Sidetone (T2010 & T2015 only)

The DTMF tone output is also fed into the receive data line and can be used to provide a sidetone.

- 1 Refer to the diagram on the following page.  
Solder a resistor to S13 pin 9 (RX-BEEP) on the bottom side of the T2010 control PCB.

The value of the resistor adjusts the sidetone level and is between 100k $\Omega$  and 470k $\Omega$ , typically 220k $\Omega$

- 2 Slide a length of silicone sleeving over the resistor, and connect a wire between the resistor and S11 pin 5 (RXD) on the pot PCB, as shown.



*T2010 & T2015 Logic PCB - Bottom Side*

