



# 2 Way Radio Mixer



## Description

The Total Recall Radio Mixer will enable the output from the transmit (Tx) and another from the receive (Rx) of the base station radio transceiver and mix the two signals together and give a two-wire analogue output for the Total Recall voice logger. Both the Tx and the Rx inputs have gain control so they can equalize the input levels.

The Rx input will need to be a two-wire output from the speaker. It is preferable if this output is connected before the volume control of the base station. If it is not and the volume control is turned down the Rx will not be recorded.

The Tx input will be a two-wire output from the Tx. This can be a parallel tap from the microphone.

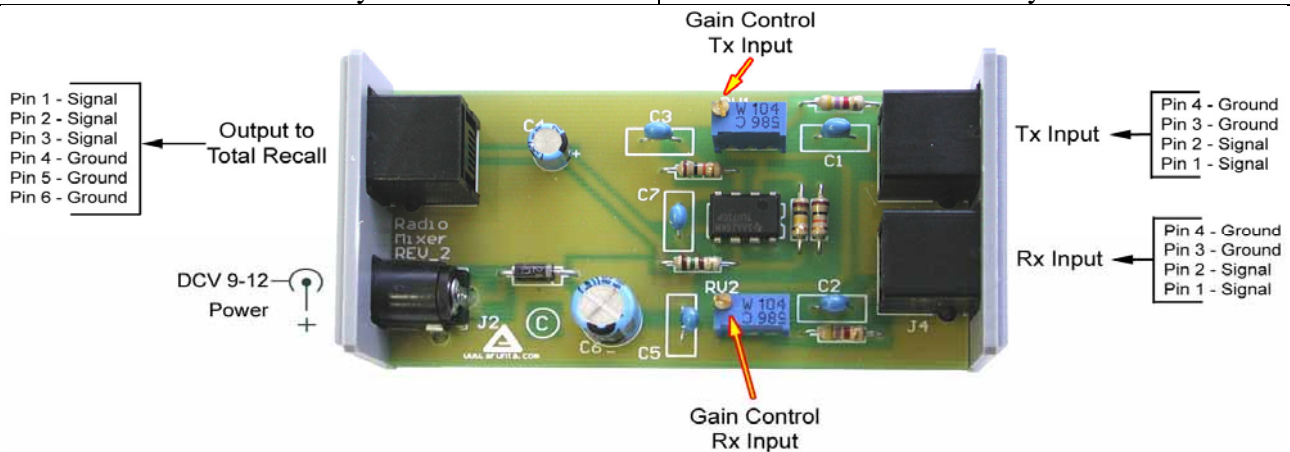
**!** How these connections are achieved will depend on the brand of base station radio. Some brands and models can be programmed to give both of these outputs from an auxiliary plug on the rear of the base station.

The outputs for the base station radio can be either balanced or unbalanced.

The connection from the Radio Mixer to the TR recorder needs only two-wire (telephone wire) with a RJ12 plug on both ends.

The Radio Mixer contains four jacks; the purpose of these jacks is described below:

J1 – Output to Total Recall.	J2 - Power supply jack.
J3 - Tx Input - The sensitivity of which is controlled by RV1*	J4 – Rx Input - The sensitivity of which is controlled by RV2*



## Specification

<ul style="list-style-type: none"> <li>Input impedance - &gt; 5 k Ohms</li> <li>Gain - both channels individually adjustable from 0dB to +26dB</li> <li>DC - 9V - 15V @ 20mA, centre pin positive</li> </ul>	<ul style="list-style-type: none"> <li>Output impedance - 150 Ohms</li> <li>Frequency Response - 33Hz - 150kHz</li> <li>AC - 6V - 9V (rms) @ 25mA</li> </ul>
--	--

**!** With some Inputs they may be polarity sensitive. Therefore care needs to be taken with the polarity of connection so as to avoid short circuits.