Using an Early Version TDS to take Comments

The latest version of the TDS unit is the 1SR which allows audio to be sent and received (though not at the same time). The TD1SR can be used to take pre-arranged comments or to tie in with other venues to share meetings by throwing an external changeover switch.

Original versions of the TDS1 and TDS2 can also be re-worked to allow them to both send and receive audio. However, you will need to do a couple of modifications to allow this to happen. Principally, if your system uses a 100V line speaker feed, then you need to change this to use the XLR signal input on the front panel of the TDS. Then, the link cable needs to be unplugged inside the TDS that connects the100V line transformer to the printed circuit board (or the attenuator circuit on later models).

Note that the XLR input needs quite a high level of signal to drive it, around +4dBm or higher (+1.5V or more).

In answer mode, the XLR socket doubles as the OUTPUT and needs to be fed into a balanced microphone input socket. Therefore you need to add a very high quality changeover switch to change the TDS signal from send to receive. The drawing below shows how to achieve this. Note that answer signals are very low level and connections should be made with short lengths of good quality screened signal cables. Standard balanced microphone cable will be fine.

Note: You MUST reduce the input gain before throwing the switch to avoid loud transients from being introduced over the KH sound system.

Note: Other listeners who listen via the dialup system may / may not be able to hear the comments. This is a function of how far each listener is from the nearest telephone exchange. There is nothing that can be done to the TDS unit to avoid this issue. Also, when switched to listen mode, ANY sound introduced onto the telephone line will be heard over the KH sound system. Thus, if a number of callers are listening in, any sound generated by any or all of them will be heard at the KH. The person(s) responsible for policing the TDS system must make sure that users do not abuse the system and remain QUIET when listening in. It is a good idea for all users to get into the habit of pressing the telephone mute button to prevent unwanted sounds or conversations being transmitted.

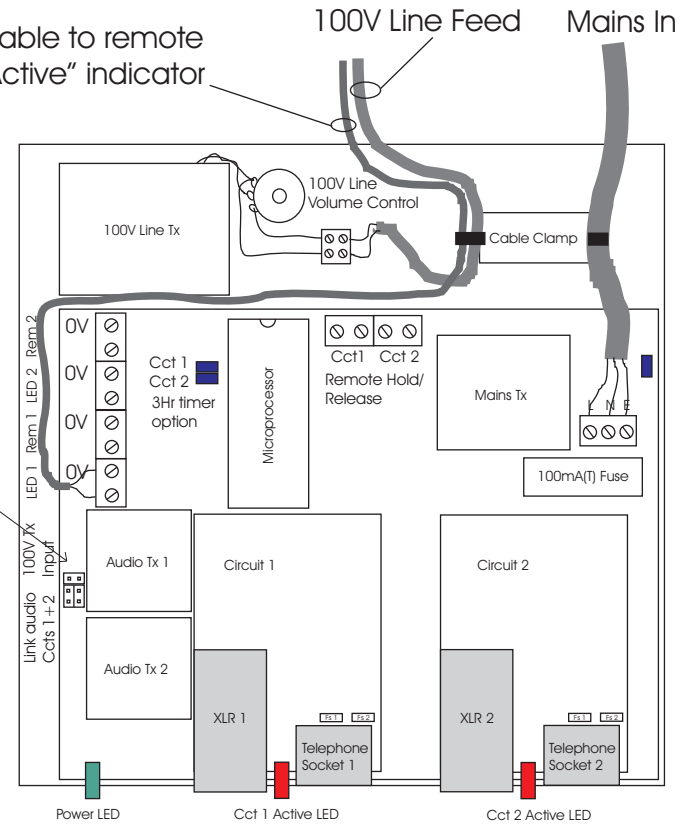
Note: Whilst the TDS MAY allow you to comment, the logistics of policing / operating it may mean that results experienced are patchy. Sharing meetings is different and works well.

Wiring and Modification Diagram

Notes:

100V Line Feed - Not Used.

Unplug 100V Tx Input cable.



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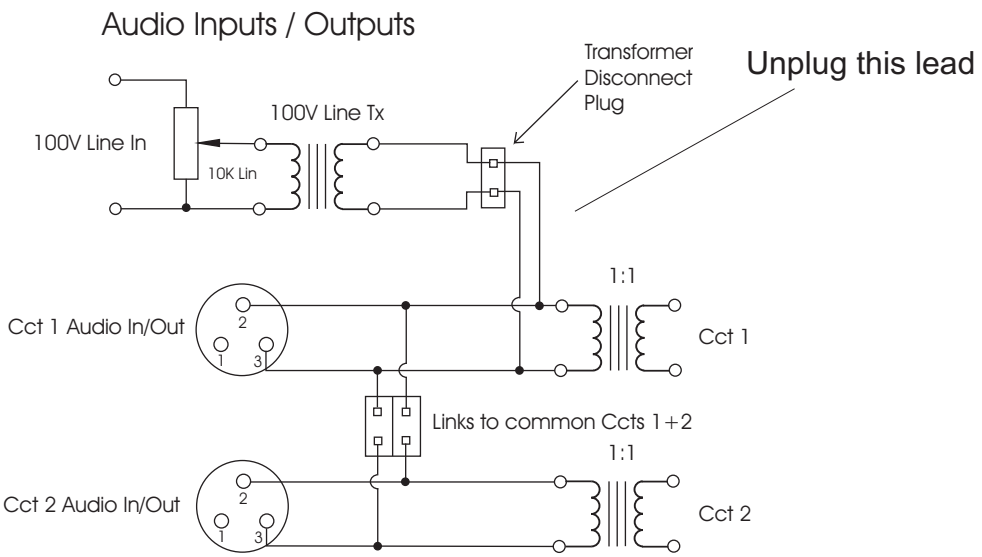
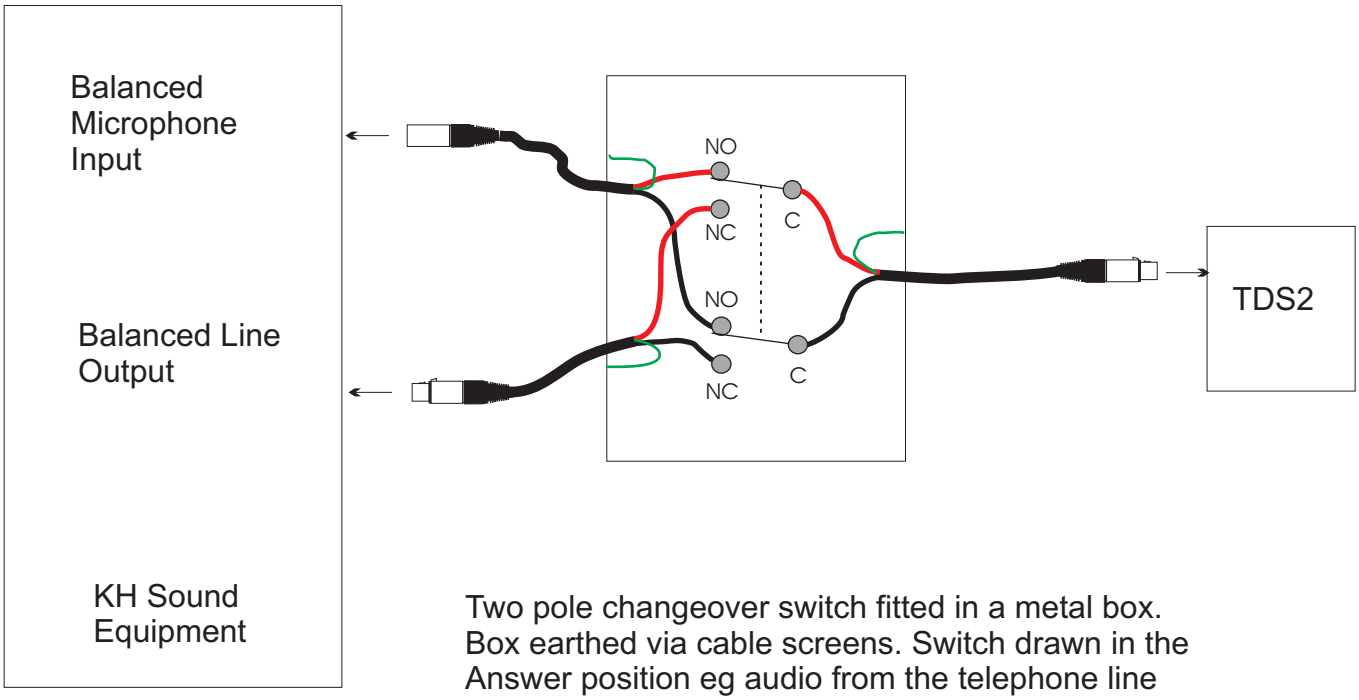
Input / Output XLR Socket



Note: Line inputs must be capable of driving 75R load or lower at +4dbV (1.4V). IMPORTANT : Disconnect the 100V line transformer to avoid loading the input signal when using the front panel Line In XLR plugs.

Make up the following lead / box:



Two pole changeover switch fitted in a metal box. Box earthed via cable screens. Switch drawn in the Answer position eg audio from the telephone line routed into the microphone input.