

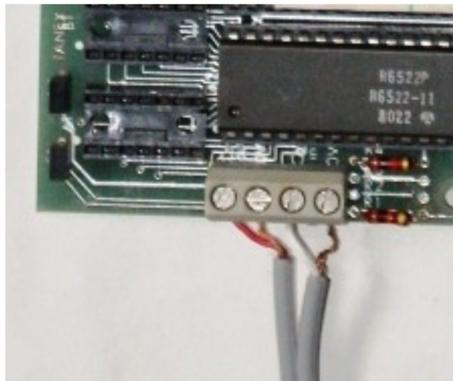
Cassette Tape Interface

Cable assembly

A cable is required to connect the Tanex or Tanex-Plus to a recording device (eg Cassette Tape recorder / PC). The following materials are required:

- At least 1m length of twin screened (stereo) audio cable
- 1 x 5 pin 180 deg DIN plug (Tanex-Plus only)
- 2 x 3.5mm stereo jack plugs (or alternatives depending on the recording device used)

Tanex terminal block connections



Connect the Right channel signal wire (usually red) to the CasOut connector.

Connect the Left channel signal wire to the CasIn connector.

Connect both Left and Right screen wires to the 0v connectors.

Tanex-Plus 5 pin DIN Plug connections

The connections for the 5 pin socket on the front edge of the Tanex-Plus PCB are as shown in Figure 1 below:

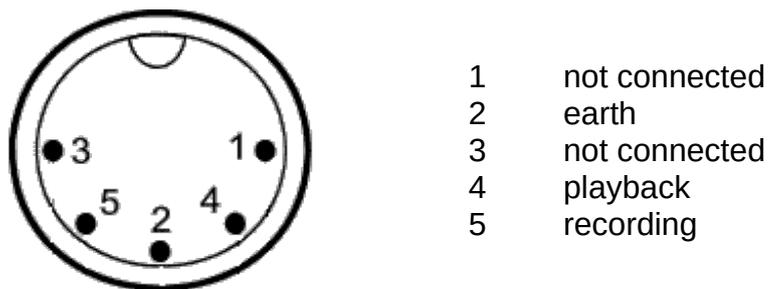


Fig. 1 – Tanex-Plus Cassette Tape Interface Pin Out (Front view)

Connect the Right channel signal wire (usually red) to Pin 5.

Connect the Left channel signal wire to Pin 4.

Connect both Left and Right screen wires to Pin 2.

Recording Device Jack Plug connections

Connect the Right channel signal wire to both the tip and ring connectors of the Recording Jack Plug.

Connect the Right channel screen to the Screen connector of the Jack Plug.

Playback Device Jack Plug connections

Connect the Left channel signal wire to both the tip and ring connectors of the Playback Jack Plug.

Connect the Left channel screen to the Screen connector of the Jack Plug.

Installation

Plug the 5 pin DIN plug into the Tanex-Plus Cassette Tape Interface socket.

Plug the Recording Jack plug into the recording device Microphone socket.

Plug the Playback Jack plug into the recording device Headphones socket.

Note: it is suggested that only one jack plug is plugged into the recording device at a time during initial set-up. The recording / playback audio levels may be impacted on some recording devices when both plugs are inserted at the same time.

Initial Set-up (Cassette Tape Recorder)

Connect audio cable to Tanex-Plus and the Recording Jack Plug to the Microphone input socket of the Recorder.

On the Microtan:

Set CUTS speed **C** <CR>

Type command **D100,1FF,Test** (but do not press <CR> yet)

On the Recorder:

Insert blank cassette tape, advance it so that there is recording tape against the recording head

Start recording

On the Microtan:

Press <CR>. The file transfer will commence. The cursor will be displayed again when the file transfer has been completed.

On the Recorder:

On completion, stop recording. Rewind tape and press PLAY. The recorded audio should be heard clearly. Adjust Recorder volume control so that the sound is loud but not distorting.

Remove recording jack plug and insert playback jack plug into the Headphones socket. Rewind tape to start position.

On the Microtan:

Examine (verify) the recording using the command **E,TEST <CR>**

On the Recorder:

Press PLAY

If the file is received successfully with no errors, the cursor will be displayed. If not, retry with different volume control settings.

If successful, repeat above process, using FAST speed. This is set on the Microtan using the command **F <CR>**. Note Microtan reverts to the default CUTS speed following a RESET.

To confirm the Microtan can successfully read a file from tape, use the command **F,TEST<CR>**

The position of the volume control should be noted for future use.

Initial Set-up (PC / Laptop)

The same process as for the Cassette Tape Recorder above is used except the recording and playback jack plugs are connected to the PC / Laptop sound card. An application such as [Audacity](#) will be required to manage the recordings. The recommended settings are as follows:

Mode : Mono

Sampling Rate : 22050 Hz

Sampling Format : 32-bit Floating

The sound card Mixer controls may need to be adjusted to set the recording and playback levels.