

## Assistive listening devices and connections to television

Connecting headphones or amplified headphones to a television can be a significant problem as connecting headphones into the headphone socket will almost invariably mute the television speaker(s).

By using audio sound outlets already fitted to your television you may overcome the muting problem and have a separate controllable sound outlet.

Some options are listed below.

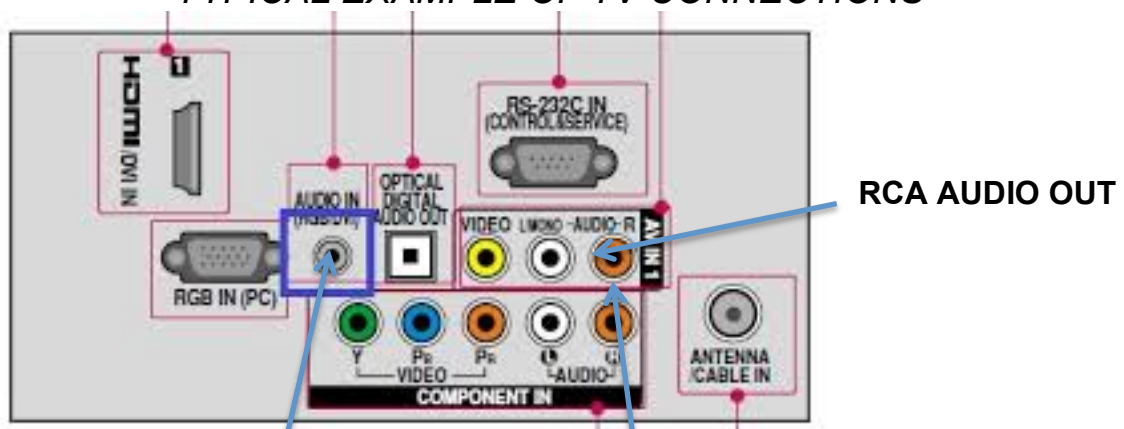
1. With some more modern televisions there are options for sound listed in the set-up menu. This is accessed using the remote control. You may find listed (not always) an option to have the headphone socket and the speaker active at the same time. So plug in your headphones and the speakers will still work. Remember however, that increasing or decreasing the speaker volume will affect the volume in the headphones.
2. You may also connect your headphones using an adapter to the RCA out sockets. See para 3.

### *TYPICAL TV SETTING MENU*



3. Direct audio output connection. To access these connections you will need to have an assistive listening device (ALD) or amplifier with headphones. The sockets called RCA sockets are located on the rear of a television, although in some cases they may be found on the side or even the front. They are easily identified by their colours code red/black/white/yellow; only two are required to be connected. They are labeled as *audio out* and may have an arrow pointing out. Simply connect the RCA plugs from the ALD to the RCA sockets. This sound is separate from the television speaker and may be adjusted to suit at the headset. In most cases it is possible to mute the speaker sound with out affecting the ALD.
- 4.

### TYPICAL EXAMPLE OF TV CONNECTIONS



TOSlink OPTICAL/DIGITAL AUDIO CONNECTOR

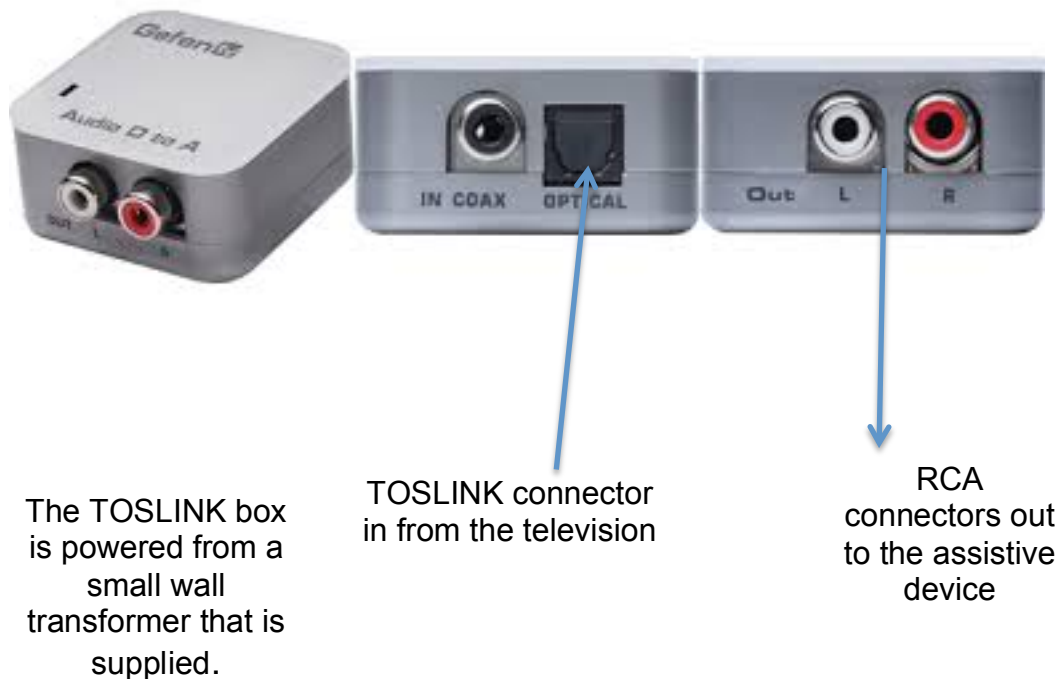


RCA AUDIO OUT CONNECTORS



5. Optical or digital sound out. Technology and the need for higher quality sound and sound distribution have introduced the TOS socket (**T**oshiba **O**ptical **S**ound), called a TOSlink; this is now a standard audio output on most flat screen televisions. The lack of RCA sound connectors as used in para 2 is overcome with a digital to analogue audio converter (A black box – matchbox sized). The TOSlink plugs to one side, while to RCA connectors fit to the opposite side.

### DIGITAL TO ANALOGUE CONVERTER BOX



6. Bluetooth. A low powered digital radio transmitter that is easily connected to a television or sound source. Connection is either by the RCA sockets or by using a Toslink connector as above. The advantage of Bluetooth is that you may use a variety or choice of headsets to connect to the system. Typical examples are shown below.

