

Wiring & installation details for 4 or 6 speaker soundfield

The PowerPod powered mixer amplifier has two outputs (1/4" jack) each providing connection of 200 watts at 4 ohms or 150 watts at 8 ohms and enough at 12 ohms!

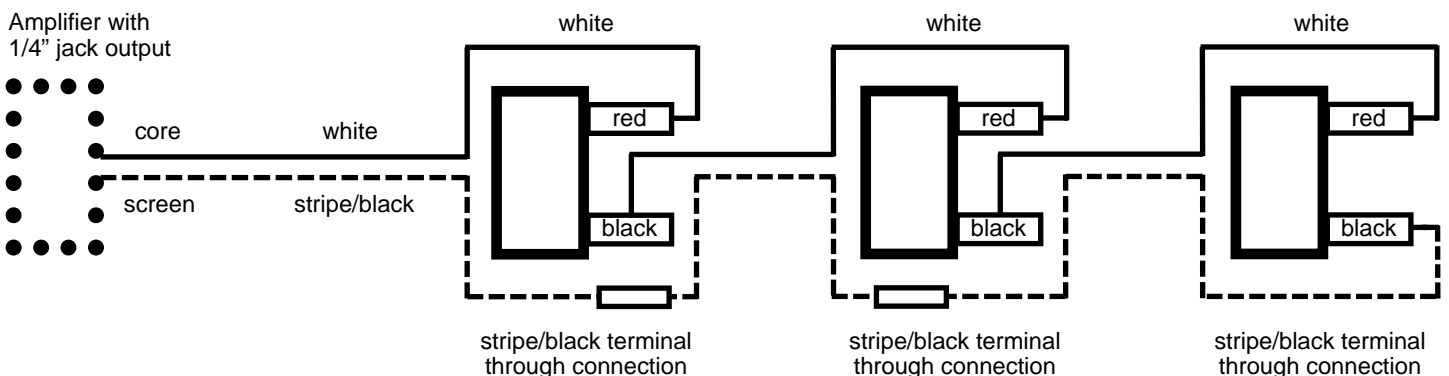
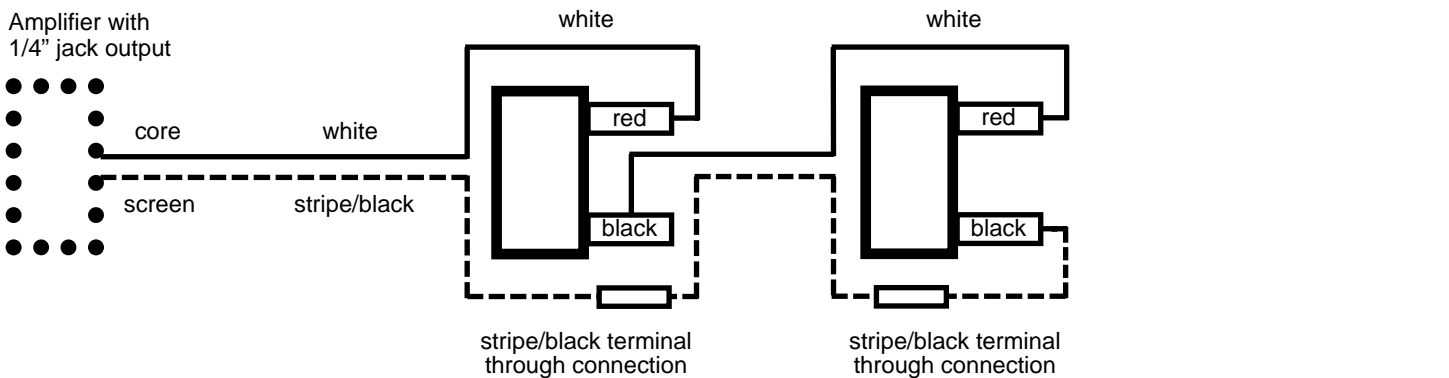
There is a slider switch on the rear, this should be set to 'MAIN' (ie not bridge) – we wish to wire 2 (or 3) speakers to each half of the amplifier.

The 4 (or 6) speaker soundfield has 4 (or 6) JBL1 speakers each of 4 ohms. The method of connection is to connect 2 (or 3) in series (be careful to match phase/polarity connections) to give 8 (or 12) ohms for connection to one channel. 8 ohms (or 12 ohms for 3 speakers) results in inefficient use of power but is quite safe for the amplifier. The other 2 (or 3) speakers are then wired into the other channel. There are actually 5 1/4" output sockets – 2 left channel – 1 *bridge output not for use* – 2 right channel. (*Any other combination is unacceptable – 2 x 4 ohms in parallel is dangerously low!*)

The volume in trials at Connevans was more than adequate for general use for music and speech but not for disco level!

The PowerPod mains switch is on the rear, we advise turning off the whole system at the mains rather than turning off each individual item.

Connections:



Additional notes

Trantec radio microphone receivers

- a) The aerials must be fitted so that they are both slanted (ie never vertical) – see Trantec instructions.
- b) The two radio mic systems will need to be set to different frequencies! – see Trantec instructions.

Using more inputs with the mixer

The mixer unit has the capability of accepting inputs from a total of 7 wired or radio microphones plus 2 further AUX & Tape inputs for tape or CD etc. Each microphone input also has a line level option too.

Sound field versus Connevens CRM-220 or fmGenie radio microphone users

Hearing aid wearers will still receive a better sound signal from their personal radio receiver than from the soundfield speaker system. The radio microphones used with the soundfield are in the UHF band and as such will not be received by, nor interfere with, the personal radio receivers. In order that a CRM-220/fmGenie can be heard, the plan is to re-broadcast the output of the amplifier by connecting to a Connevens transmitter. This also has the advantage of transmitting the overall mixed sound of both UHF radio mics and any CD or cassette that may be used with the mixer system.

How does this part work?

- 1) The mixer amplifier has an output marked 'REC' (two phono sockets red & white), the volume of this output is affected by the amplifier output volume so the 2206S volume control should be able to be set and left alone (CRM-220 instructions page 41). Connect the phono plug end of the ★A121B★ lead to the REC output.
- 2) The 3.5mm stereo plug then connects to the the 2206S input adaptor (we have supplied a self adhesive velcro pad to secure the 2206S somewhere sensible). The flying lead from the 2206S should be left loose for plugging into the school common frequency transmitter.
- 3) When the soundfield is to be used with the Connevens school common frequency transmitter simply plug the flying 3.5mm mono lead from the 2206S input adaptor into the CRM-T220 transmitter EXT microphone socket. It is important that the aerial hangs down – a wall mounting bracket for the Connevens transmitter is included.

