

## Kit Contains:

- 2 Gel Audio Speaker Units
- 20 Watt (RMS) per channel amp with built in FM/AM Radio
- Power supply
- Touch Control / Input jack fitted socket
- 10m speaker cable
- 0.5m jack to jack cable
- Remote Control

## Supplied Tools

- Small screwdriver
- Screws

## Recommended Tools

- Cable trimmers

Installation should be carried out by a qualified installer or electrician, as a certain amount of electrical knowledge is assumed.

## Installation & Connection

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## I. Amplifier Installation

### Mounting

The 25mm depth will allow installation into standard UK 2-gang boxes, which may be galvanised metal for installation in solid walls, or plastic drylining (with lugs) or surface mount box or trunking system.

### IMPORTANT

The front panel membrane has two tabs that can be flexed outward to allow access to the panel fixing screws. Once fastened in position and tested the backing paper can be peeled off and the tabs fixed down flush to conceal the screws. **ONLY** perform this operation once the installation has been tested and found to be satisfactory. Once stuck down these tabs cannot be removed without damage to the front panel.

### Wiring

In order to make a reliable and safe connection without short circuits it is recommended that the speaker cables and line input signal cables are prepared and tinned prior to connection, with no more than ¼" or about 7mm of tinned wire extending out of the insulation.

### Power

The amplifier requires a power supply of 12v to 18v DC centre positive and a minimum current of 3500mA. If you are not using the recommended psu please verify that the supply is correct **BEFORE** connection.

### Environment

soundPANEL is not IP rated for use in a damp environments but if due care is given to positioning of the amplifier and supply then it can be used in zone 3 installations. Please use a qualified electrician operating to current regulations if you intend to use this unit in a bathroom.

### Rear Line input

Connect the input signal cables using tinned screened cable. Connect the screens to the 2 centre connections and the 2 signal wires (centre cores) to the top and bottom connectors. Note all the connectors are of the superior rising clamp style so that they make a sound connection without biting through the copper of the cable.

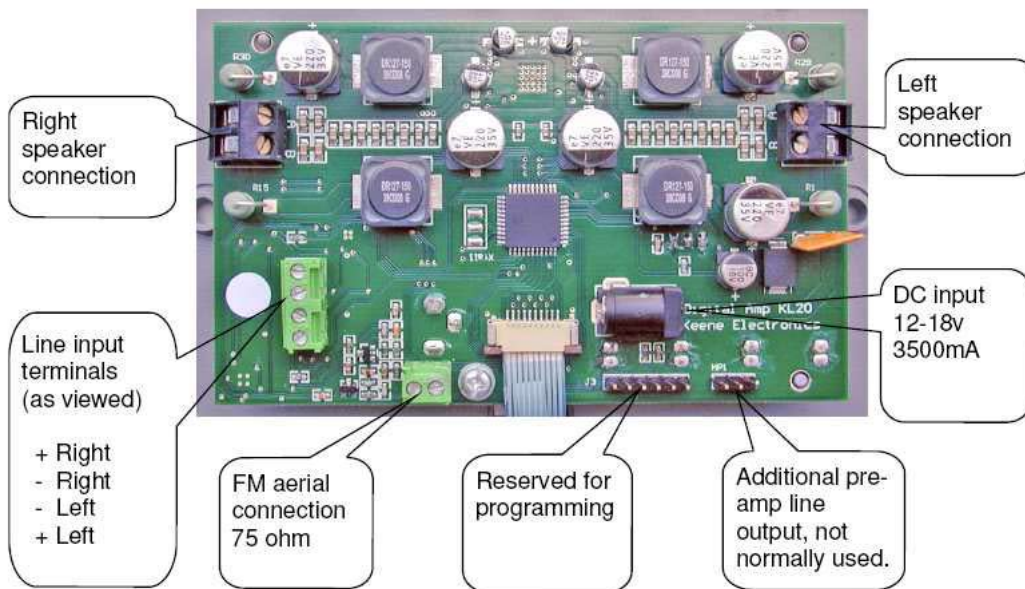




**Aerial**

The FM radio requires a 75ohm aerial for operation. The bare wire ends of the supplied aerial cable should be connected to the terminals on the PCB (circuit board) and the other end arranged in a 'T' shape as best as possible within wall or ceiling. If the cable needs to be extended then use similar sized 75ohm impedance cable. If you wish to connect to an external FM loop aerial then use coaxial aerial cable such as KBL 7. Polarity of the supplied aerial is not important, although if using coaxial cable then connect the screen (ground) to the right hand terminal closest to the PCB screw. Double check all connections and, if all is well then fasten the panel into the mounting box. Switch on the power source and observe the LED's. If all is well the red "standby" LED (only) should be the only one illuminated.

Connections for Power, Line Input and Loudspeaker Outputs are located on the rear PCB.



**2. Transducer Installation**

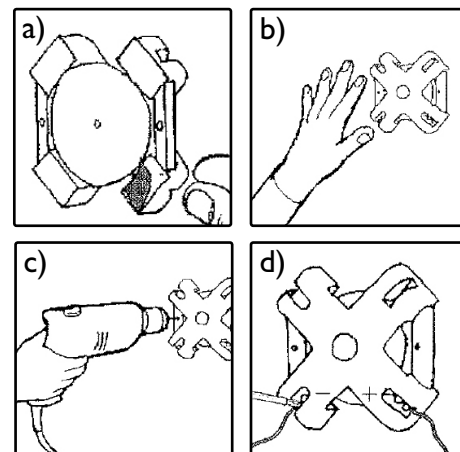
When connecting the loudspeakers, be careful to keep both left and right phase connections the same.

Please note that the amplifier is fully bridged so there is NOT a common ground or return connection. The recommended minimum speaker impedance is 4 ohms on each channel. If driving 2 speakers or more on each channel use them in series if they are both 4 ohms or in parallel if they are both 8 ohms. Note the speaker corresponding to the left input is actually on the right hand terminals in the amp as viewed from the front.

- a) Remove cover tabs from the four adhesive pads on the bracket to allow the speaker unit to stick to the rear of the panel. Ensure surface is clean and dust free.
- b) Place speaker unit centrally on the reverse of the panel around head height
- c) Use the supplied mounting screws to secure the speaker unit. Use of other screws may damage the panel. It is recommended to drill a pilot hole, 2mm diameter being careful not to damage the surface.

**NOTE:** the screws supplied are designed for use with multiPANEL panels and are not suitable for other surfaces. If using soundPANEL on tilePANEL or ceilingPANEL, alternative screws should be sourced.

- d) Strip back 10mm of insulation and insert one cable into the positive and negative terminal blocks. Secure the cable by tightening the outer screw as indicated.



### 3. Operation

#### Power

When the unit first receives power it will default to standby. Switch the unit on, either by pressing the power button on the front panel or using the supplied remote control. The power button will also put the unit into standby although only the power button can be used to switch the unit back on again. It is safe to leave the amp in standby as very little current (less than 100mA) is used in that mode. In standby only the Red power LED will be illuminated. This is the normal method of switching off the amp. All the LEDs are configured to fade as the ambient light level drops; this is so that the led brightness does not look excessive even in a darkened bedroom. The "F6" key on the remote will force the LED's to dim regardless of light level. In the event of a power failure the amp will come back on in to standby mode and will remember the last stored parameters.

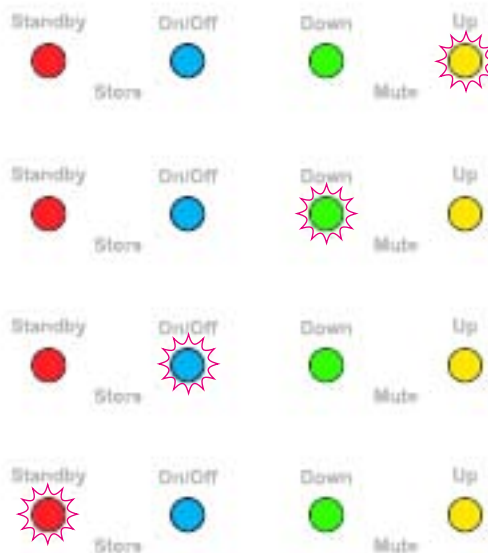
#### Volume

The volume can be controlled from the front panel or from the remote control. There are 256 steps to the volume control from a minimum volume of 0 to a maximum volume setting of 255. These are accessed by pressing the volume up and volume down buttons. The 10 number keys from 0 (min) to 9 (max) on the remote control provide a quick way of selecting a range of preset volumes within this range.

The amp remembers the volume setting that was in use when it went into standby - on restore it will select either the stored volume or the volume of the key pressed - whichever is the lower. On first key press the volume is deliberately inhibited at 50% of maximum. Subsequent key presses will allow higher volumes to be selected.

#### Bass, Treble, Balance, Loudness Adjustment

Adjustment procedure for bass, treble, balance and loudness: To enter setup mode press F2 and hold for 3 seconds. Bass, treble, balance & loudness can now be adjusted. F4 cycles through these parameters and the radio preset up/down will adjust the levels. To exit setup procedures press F2 again. To store the current settings to memory so they will be saved when the soundPANEL is switched off and on again exit setup mode by pressing F2 and then press F4. Note - setup mode will be exited automatically if no key is pressed for four seconds. When in setup mode the LED's will illuminate as shown (right):





## Radio Controls

Your soundPANEL radio amplifier comes with 10 preset national radio stations, as listed in the table on the right.

To store a different radio station over the preset station, first choose a memory location, for example to store to location 4, press F5 then 4. This makes number 4 the current active memory location. Now press 'seek' (F1 up or F3 down) until the tuner settles on the station you like. Now press F4 and the current station will be stored to location 4. Repeat for each location (0 through 9) storing as desired.

soundPANEL has two memory "maps", the current map and a map stored in permanent memory. When the unit is switched off the current map is lost and the permanent memory map will be loaded when the unit is switched back on. Pressing F4 at any time writes the current map to the permanent map.

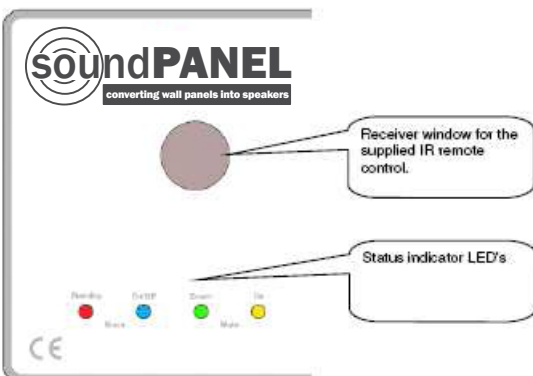
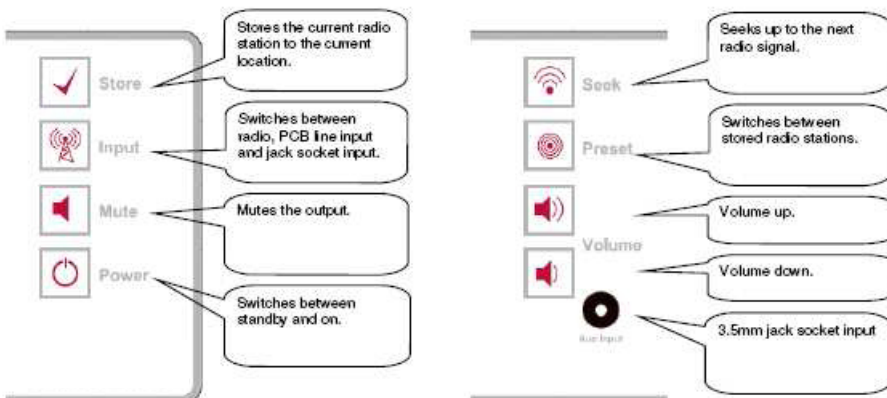
Preset Number	Station
0	Smooth Radio
1	BBC Radio 1
2	BBC Radio 2
3	BBC Radio 3
4	BBC Radio 4
5	Classic FM
6	BBC World Radio
7	BBC Radio 5 Live
8	Absolute Radio
9	Talksport

## MP3 Controls

Using the 3.5mm jack-to-jack cable provided, plug one jack into the earphone socket of your music player e.g. MP3/ iPod/mobile phone, and the other end into the jack-socket located on the amp fascia plate.

Press play on your music player and adjust the volume to ¾ level. The volume should then be controlled via the soundPANEL remote control or front panel – see 'volume' section, above. All music is controlled through the audio device, not via the remote control or front panel.

## Front panel overview



## Technical Enquiries Contact

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**Warranty** - If in doubt about any points regarding installation, please check our published warranty document. Failure to do so may invalidate your warranty.