

MP3 Amp Kit v2

SKU: EK0090

Description

The MP3 Amp Kit v1 provides a 2W stereo amplifier suitable for use in all projects and designs for MP3 Docking Stations. It can be linked to either the MP3 Light Chaser Kit EK0050 or Sound 2 Light Kit EK0080 to provide light effects for your MP3 Docking Stations

Construction

Solder in the DIL socket, the two 22nF capacitors, the 470uF capacitors, remembering to observe the polarity, followed by the 1000uF capacitor again checking it's polarity.

The two speakers are connected to the pads marked L / Spkr and R / Spkr, R+. The +5V connection is soldered to the 0V and 5V connections **top left**, this is from a USB lead - Red to +5V and black to 0V.

The 3.5mm audio input lead is soldered to the L R 0V pads top right, 0V is usually the braided copper part of the cable, the other two are connected to L & R, you can position the speakers appropriately once you have tested your MP3 Amp.

The stereo potentiometer is connect in the R1 position, you can mount it off board if you wish by using insulated wire - wired as if it was soldered into the pcb.

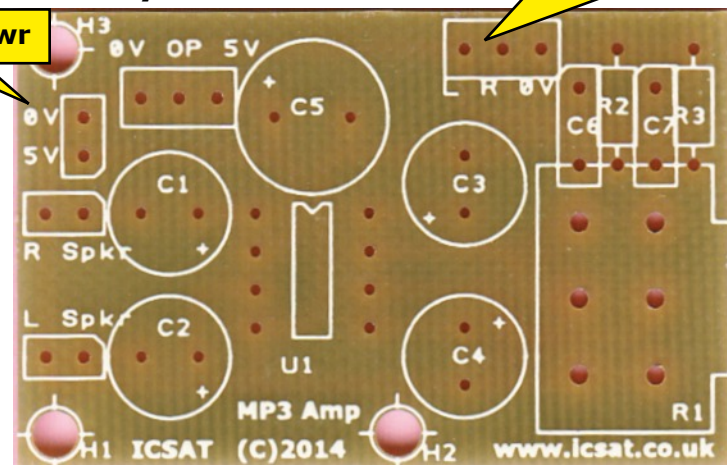
Once all parts are solder and connections checked then you can connect a PSU, using the 3.5mm lead connect the MP3 Amp Kit to an MP3 player to test the finished product.

Parts List

Part ID	Part name	USB pwr
R1	10K Stereo Potentiometer - Log	
R2, R3	4R7 [Yellow, Violet, Gold, Gold]*	
C1, C2, C3, C4	470uF 16V Electrolytic Capacitor	
C5	1000uF 16V Electrolytic Capacitor	
C6, C7	22nF Poly Capacitor	
U1	NJM7023D Audio Amp	
SK1	8 pin DIL socket	
CN1	3.5mm audio cable	
PCB	MP3 Amp PCB	
SPK	2 x 8R speakers	

* = Optional, only required if your MP3 overdrives the Amp.

PCB Layout



In use

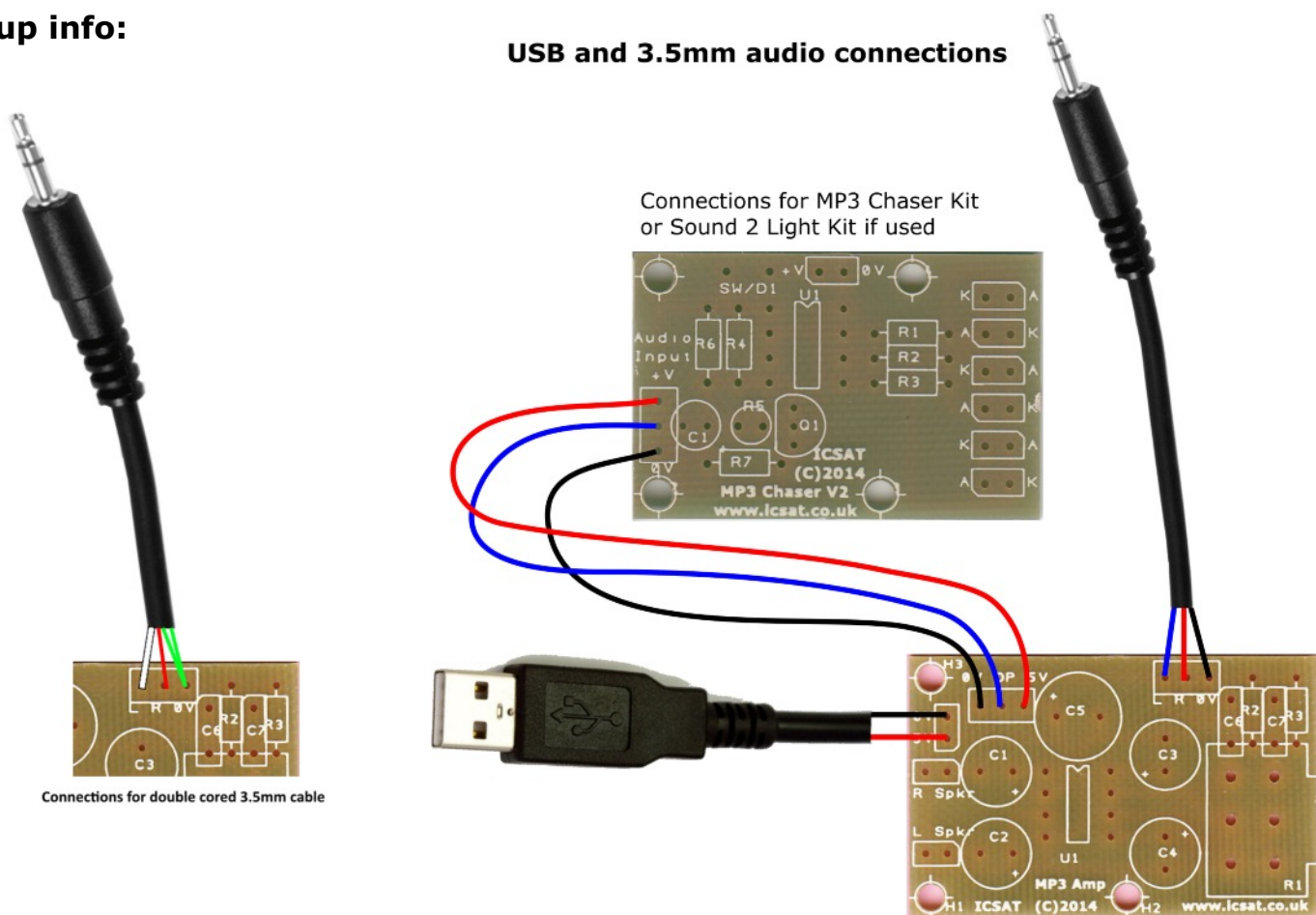
To operate the MP3 Amp ensure it is plugged into your MP3 player and powered up. Set the volume control on the MP3 Amp Kit to the midway setting and then adjust your MP3 players volume control until a suitable level is achieved. If it sounds 'clipped' or distorted reduce the volume setting on your MP3 player or the MP3 Amp Kit.

It is best not to operate either at full volume as it will not give acceptable results

If you have either the MP3 Light Chaser Module or Sound 2 Light Module they can be connected as describe in their instructions, the MP3 Amp pcb has dedicated connections for these kits

Setup info:

USB and 3.5mm audio connections



Related Kits

1. MP3 Light Chaser - use in lighting, mood lighting, MP3 Docking Stations or similar projects
2. Sound to Light display - use in lighting, mood lighting, MP3 Docking Stations or similar projects



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