



Chime Amp

The Chime Amp is a 1 watt practice amp based on the punch amp. This project is a very simple and can be used to drive a speaker or headphones, the chip will sense when headphones are connected automatically. The tone from the amp is flat; your unaltered guitar signal. I recommend adding an EQ pedal or treble booster in front of the chime amp to boost the high end. I personally was amazed at the output of this chip when I built my first chime amp. Through twin reverb 2 x 12's it was so loud on max volume that it was uncomfortable to sit in front of the speakers. The sound is quite nice through headphones as well.

Bill of materials

Resistors		Diode	
R1	1M	D1	1n4001
R2	4K7		
R3	4K7 (LED PDR)	Transistor	
		Q1	2n5457
Capacitors			
C1	470nf (474)	Potentiometer	
C2	100uf	Volume	100k Linear
		IC	
		U1	TDA7052A

1590a

This board spacing will fit a 1590a enclosure. You can mount 9mm pots directly to the board.

JFet

Do not substitute the 2n5457 as the buffer section is set up for this transistor.

Output

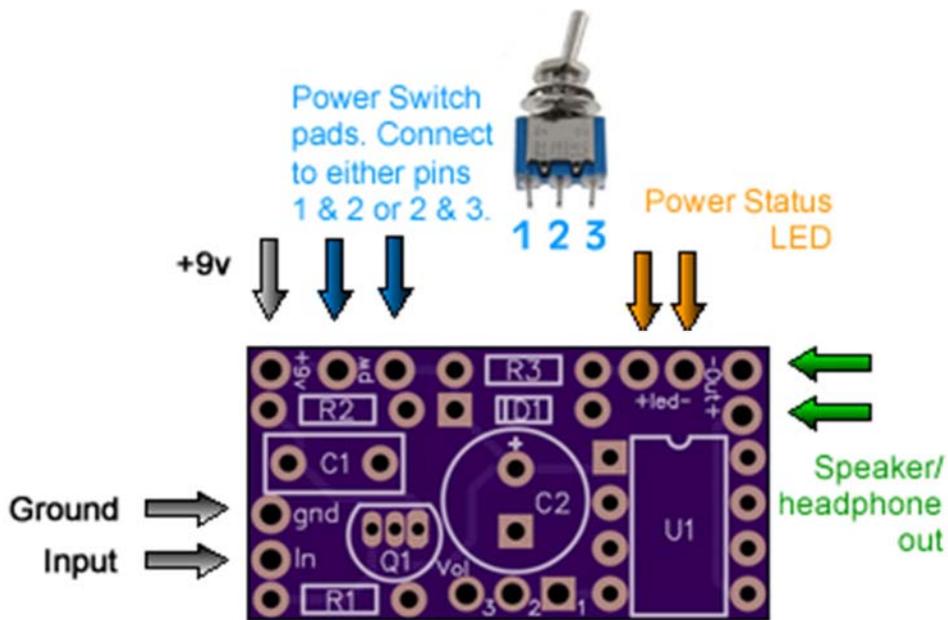
The TDA7052A has a MCL (Missing Current Limiter) which allows the chip to sense when headphones are plugged in. Be careful not to short the plus and minus when wiring up your output jack/s as this will cause the chip to heat up and you will probably kill it.

Output Jack

Do not connect the output jack to the circuit / enclosure ground, it should be kept Isolated.

Power Switch & LED

Pads for a power switch and LED are added to the board for convenience but can be left off. The LED has the PDR (Pull down resistor) onboard. The chime amp will give a small pop when the switch is flicked, this is normal. If you do not want to add the power switch connect your +9v to the pad to the right of "pw" on the pcb silkscreen to bypass the switching pads.



Power Switch pads. Connect to either pins 1 & 2 or 2 & 3.

Power Status LED

Ground
Input

Speaker/
headphone
out

Do Not Substitute the 2n5457 for a J201. The buffer will not function correctly

Note the numbers on the PCB (1,2,3) should be matched to the numbers on the pot. Pots with mounting lugs can be soldered directly to the PCB

