

# HEADPHONE MINI AMP V1.0B

add a headphone out to any effect

## OVERVIEW

Adding a headphone jack to an existing setup is easier than you think. The headphone mini amp is designed to make the best use of any scarce space that might be left in your build.

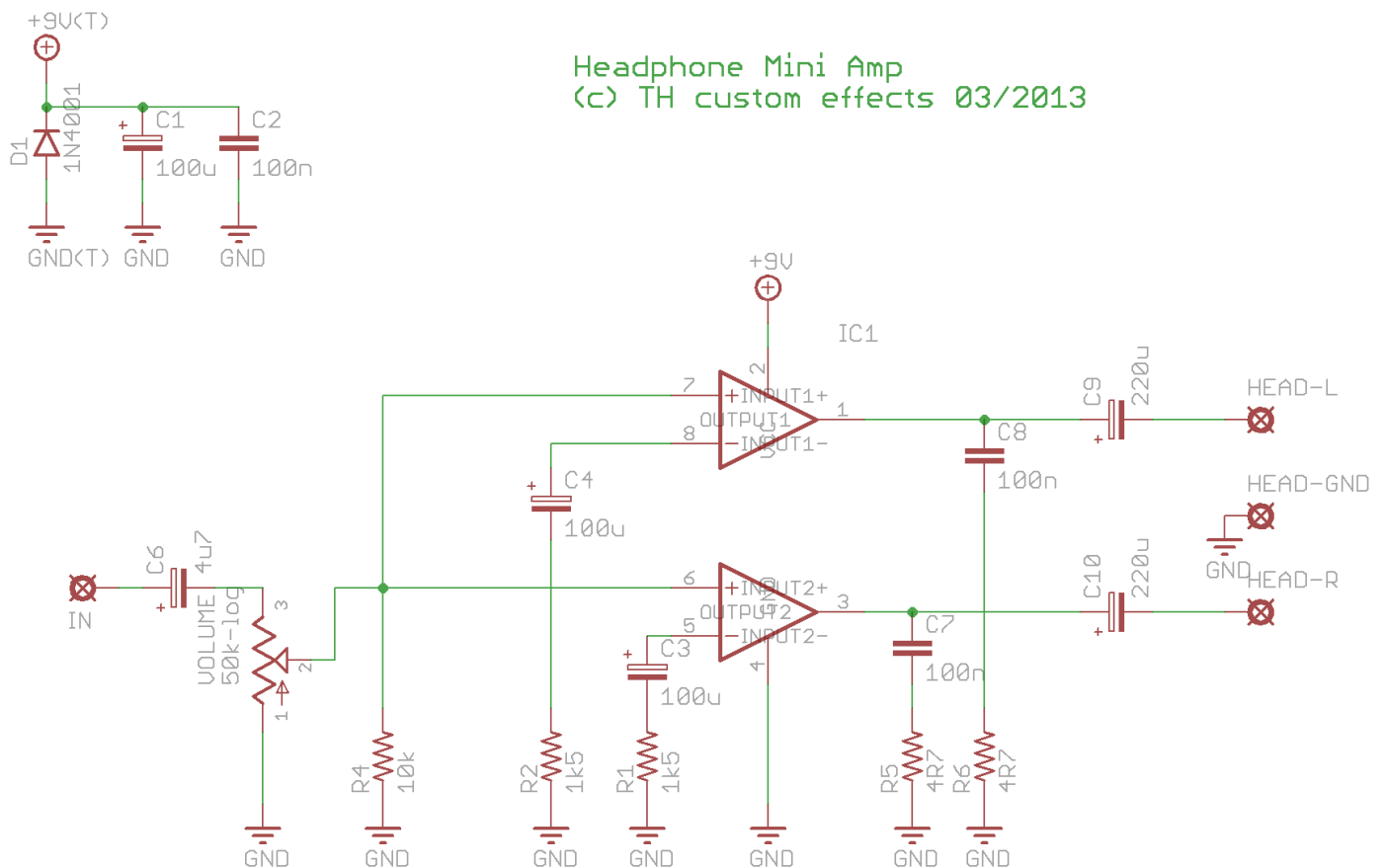
## GENERAL

The headphone amp is utilizing a special but inexpensive and easy to find chip. This is a very limited approach but with excellent sound quality!

Please note that the volume pot is presenting a load to the signal. This is no problem when put at the output stage of an effect. On the other side it was tested by directly playing guitars through it with excellent result.

V1.0a of the document fixes a typo in the BOM.

## SCHEMATIC

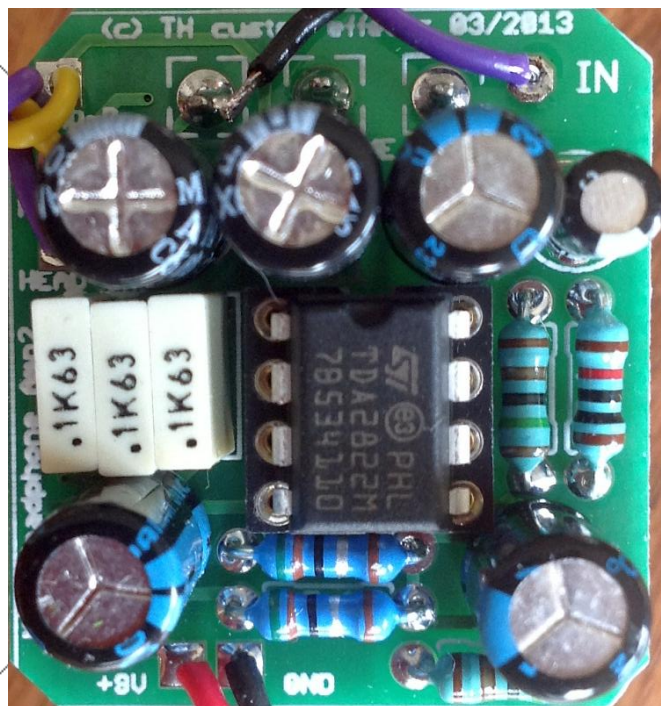
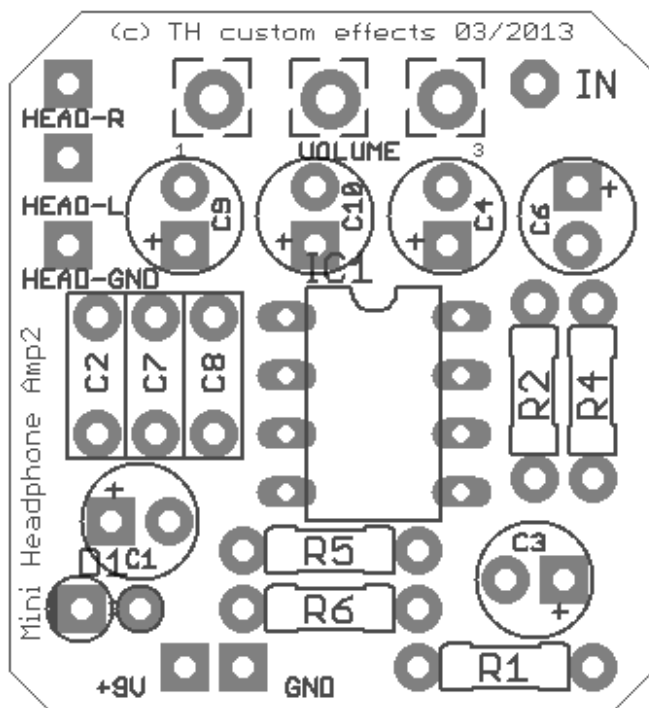


## BILL OF MATERIALS

	Parts	Value	Qty	Description
<b>Resistors</b>	R1,R2	2k2-3k3	2	*if too noisy use the larger value
	R4	10k	1	
	R5,R6	4R7	2	or 5R1
<b>Capacitors</b>	C1,C3,C4	100u	3	pol. electro
	C2,C7,C8	100n	3	box film
	C6	4u7	1	pol. Electro
	C9,C10	220u	2	pol. electro
	<b>Diodes</b>	D1	1N4001	1
<b>Pots</b>	VOLUME	100k-log	1	16mm pot
<b>ICs</b>	IC1	TDA 2822M	1	

## BUILDING

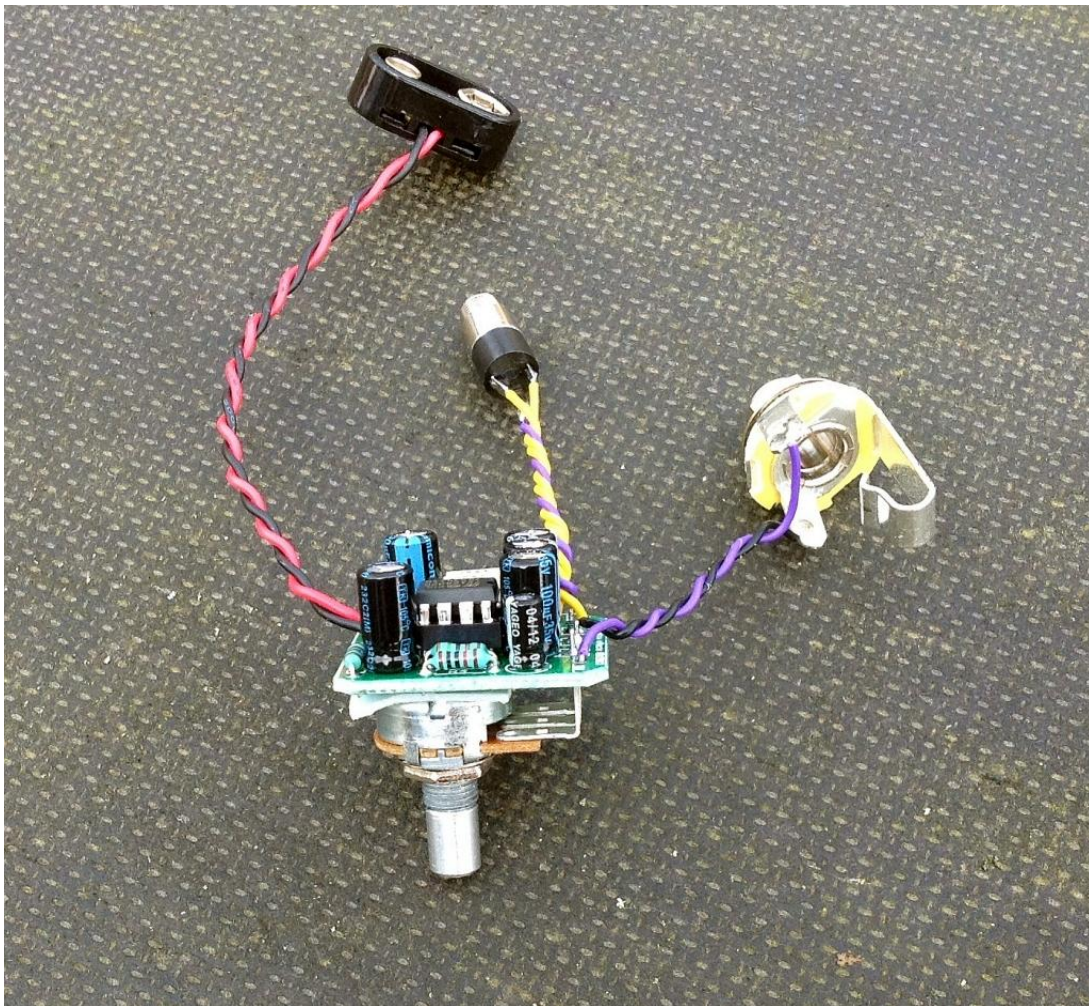
Start populating the diode and resistors first. Then IC socket and then box film caps. Last go the electro caps.



Next put the board mounted pot on the backside. Please cover the pots backside with tape so there cannot be any shortcuts with the solder pins of the populated board.

**FINALLY**

This is the whole piece.

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