RE-VERB V4.0

The hall-effect with the little “extra”

OVERVIEW

If you wish to add reverb to your pedalboard or use it in your amp because it does not have one – you are at the right place.

The Re-verb is using the accutronics® reverb module for two reasons: It is easy to use and good sounding.

There are three versions of the brick: Short-Medium-Long. I always use the short version but common understanding is that every brick does sound good as the range is only from 2sec to 2.9sec. reverb time.

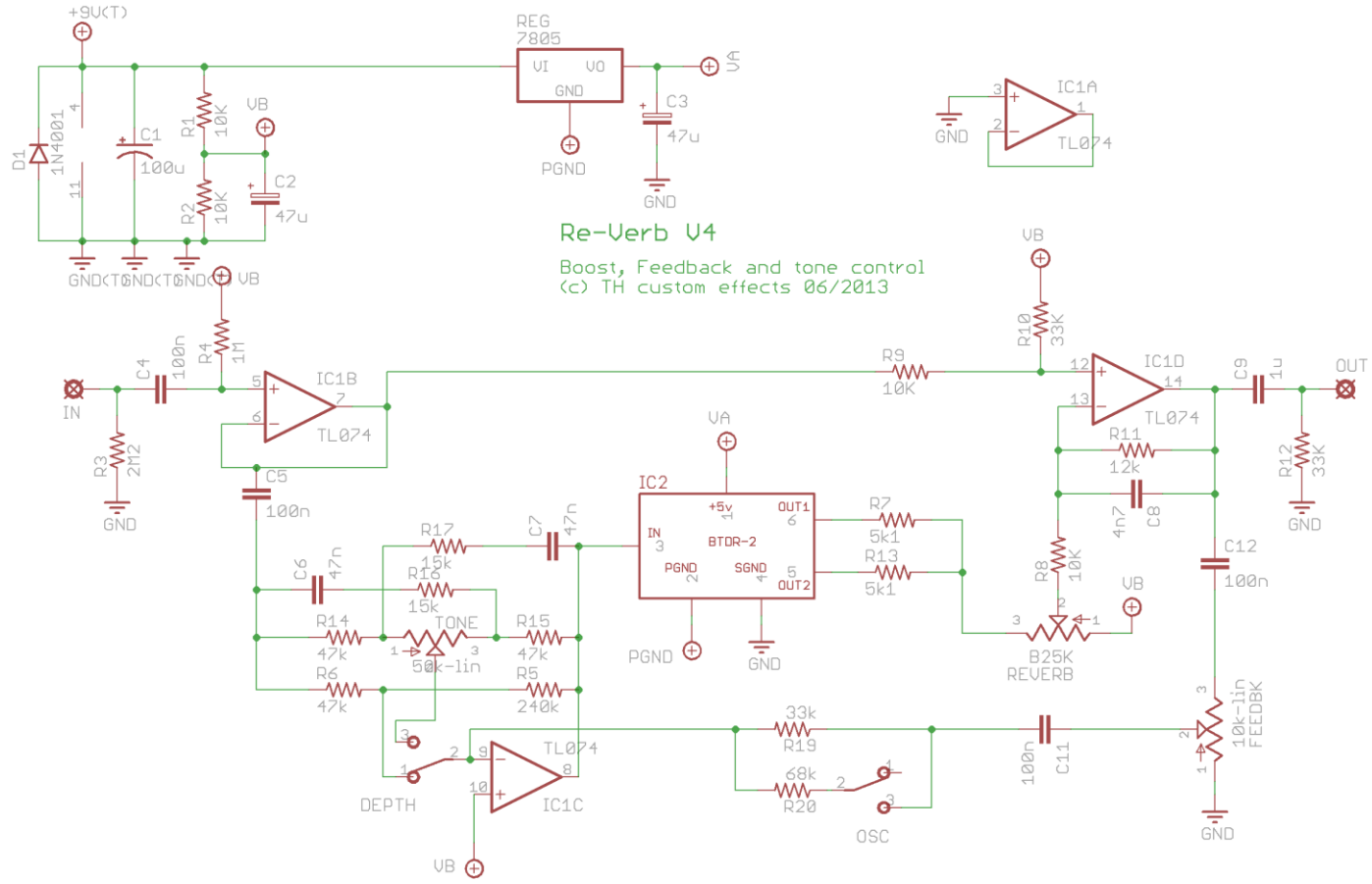
GENERAL

What makes this reverb special is its unique tone control. You can shape the color of the reverb signal and boost the lower or higher end. When the dry and wet signal are mixed later the signal will have the very unique touch you have dialed in.

In addition to that a boost switch is available for immediate cathedral-like sounds at the max. The tone control is working in a reduced way if the switch is on but overall there is a wide range of very useful sounds.

Rev 4.0 has an optimized layout and a feedback-loop.

SCHEMATIC

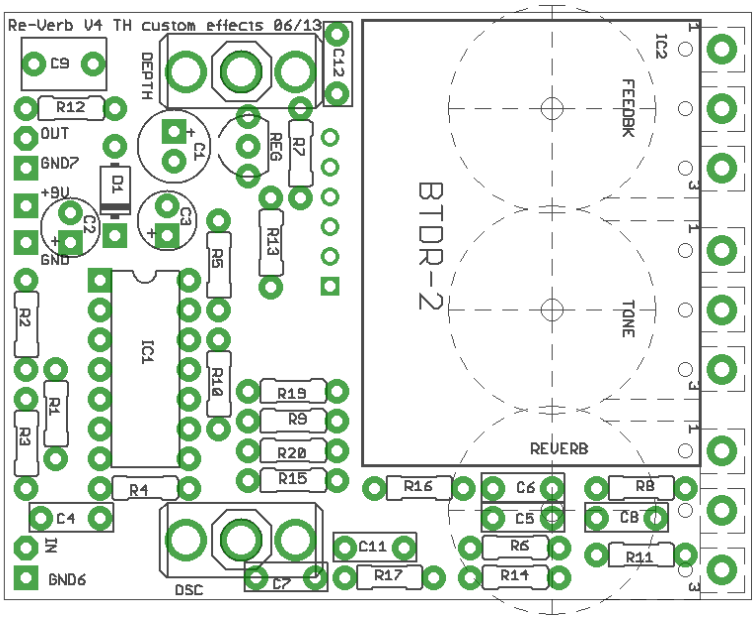


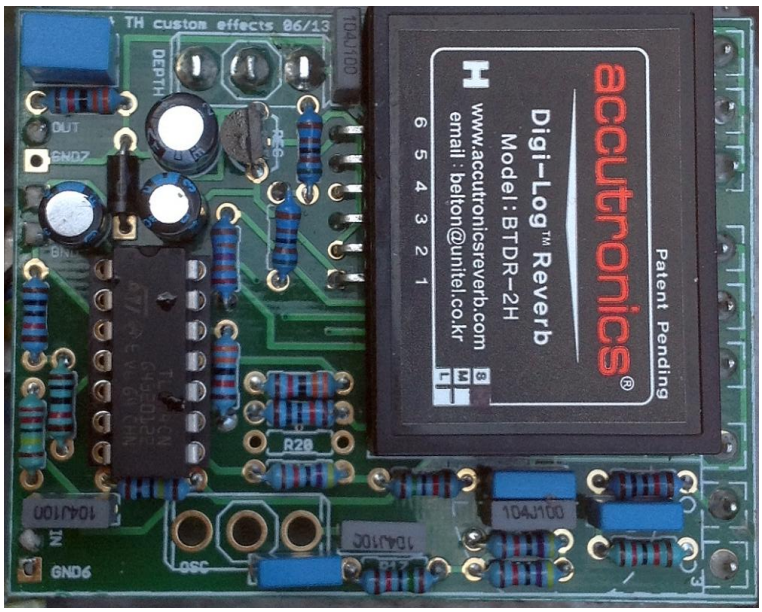
BILL OF MATERIALS

	Parts	Value	Qty	Description
Resistors	R1,R2,R8,R9	10k	4	
	R3	2M2	1	
	R4	1M	1	
	R5	240k	1	
	R6,R14,R15	47k	3	
	R7,R13	5k1	2	
	R10, R12, R19	33k	3	
	R11	12k	1	
	R16,R17	15k	2	
	R20	68k*		optional – unused in my builds
Capacitors	C1	100u	1	pol. electro
	C2, C3	47u	2	pol. electro
	C4, C5, C11, C12	100n	4	box film
	C6, C7	10n	2	box film
	C8	4n7	1	box film
	C9	1u	1	box film
Diodes	D1	1N4001	1	
Pots	TONE	100k-lin	1	potentiometer 16mm right angle board mount
	REVERB	25k-lin	1	potentiometer 16mm right angle board mount
	FEEDBK	10k-lin	1	potentiometer 16mm right angle board mount
ICs	IC1	TL 074	1	
	IC2	BTDR-2	1	Belton(accutronics) reverb brick
	REG	78L05	1	TO92
Other	SW1	SPDT	1	

BUILDING

This builds easily if you start populating the diode and resistors first, then IC socket and then box film capacitors. Next solder the brick and then the electro caps as they are usually a little higher.

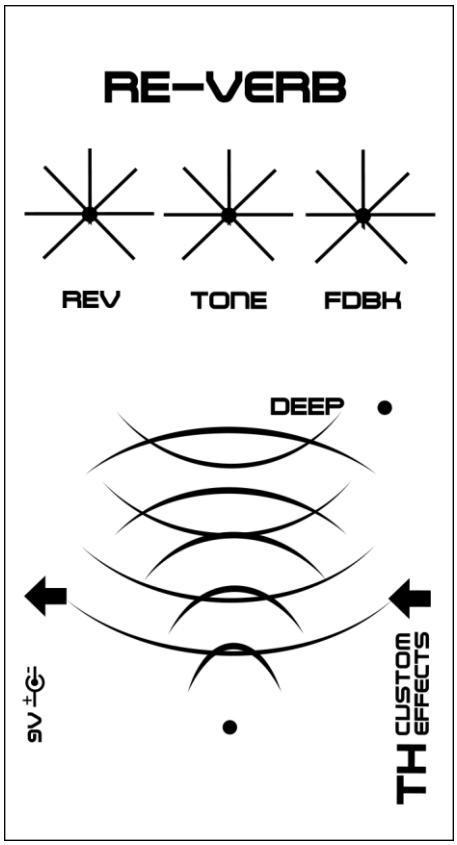




Next put the board mounted pots on the backside. Please cover the pots backside with tape so there cannot be any shortcuts with the solder pins of the populated board.
Last put in the SPDT switch. It is good practice to solder the middle pin first and then, once it is somewhat fixed, reheat it as you carefully move it into the correct upright position of the board. Once it is positioned solder the other two pins.

ENCLOSURE

Fits a 1590B enclosure. Original measurements of the picture are 58mm x 110mm !
Check your printout for correct measurements before drilling!



FINALLY

This is how it can look when boxed up.

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