

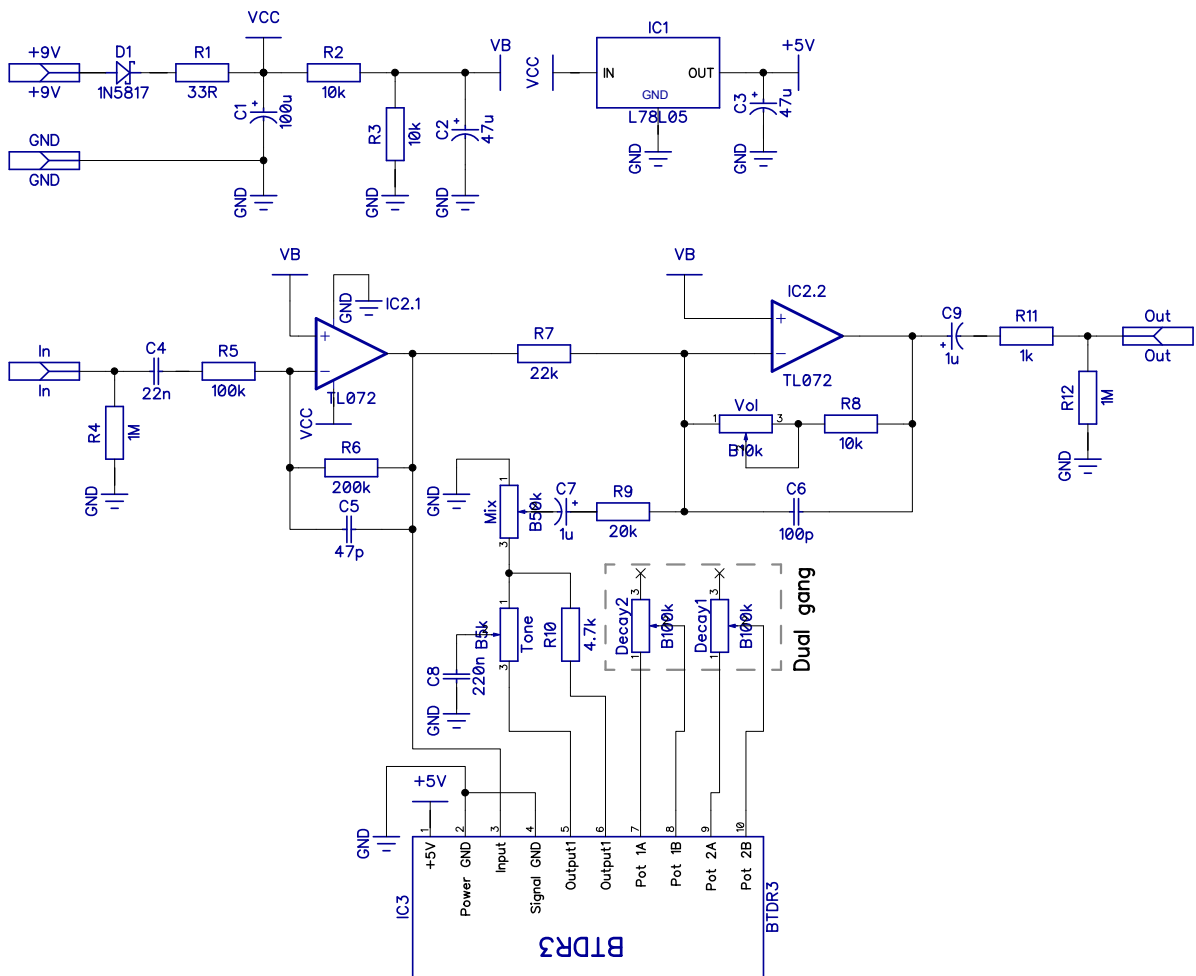


Rubber Duck Deluxe reverb

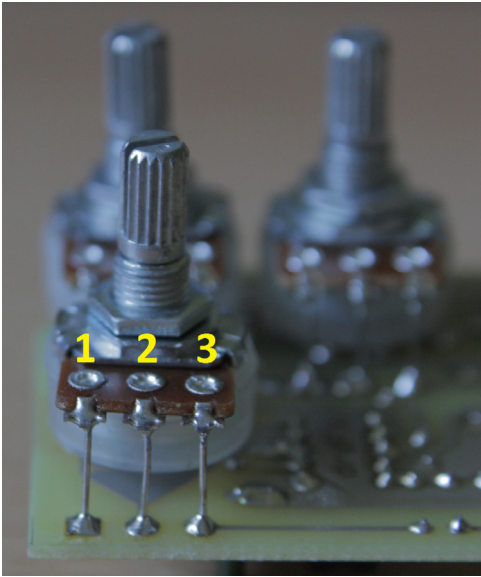
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Release date: 2016.01.22.

The Rubber Duck Deluxe reverb is my approach to the DIY reverb project, the Rub-a-Dub Deluxe taht uses the newer BTDR3 reverb IC.

SCHEMATIC



NOTES

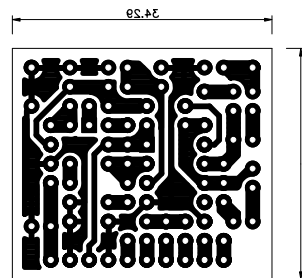
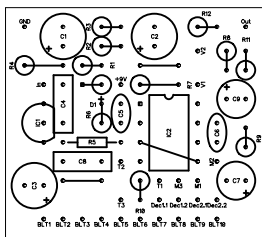


In this one there are not board mounted pots, but only solder points for each lug of the pots. The lug numbering is as seen on the picture. With careful measuring and low profile parts (elcos, jacks and 9mm pots) this might just fit into a 1590A enclosure, but I'm not sure, because of the dual gang pot needed.

Also this one has a somewhat trickier link on the component side. The lugs 3 and 5 need to be connected on the IC. For the link in this case I use the holes for the IC's legs. You can use some thinner wire or cutoffs of other components legs. Measure the piece of wire, bend it to size and try to dryfit with the IC (or its socket). If it fits you can solder them in place together.

LAYOUT

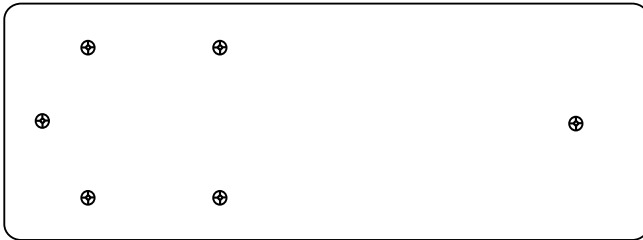
Print out the PCB design without any resizing options and make sure you switch off the "fit to page" option. The design is free for personal/home use and you also may build one or two for your friends, but the PCB layout is my artwork, therefore protected by copyright and is not permitted to be used for commercial purposes.



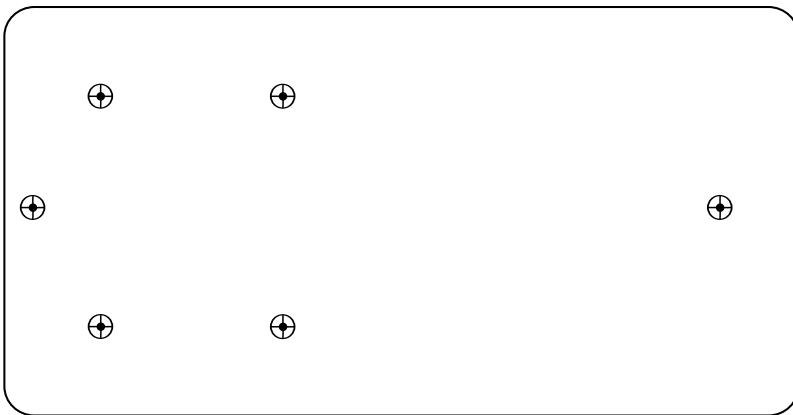
BOM							
Resistors		Capacitors		Semiconductors		Others	
R1	33R	C1	100u	D1	1N5817	Decay	B100k stereo
R2	10k	C2	47u	IC1	L78L05	Mix	B50k
R3	10k	C3	47u	IC2	TL072	Tone	B5k
R4	1M	C4	22n	IC3	BTDR-3	Vol	B10k
R5	100k	C5	47p				
R6	200k	C6	100p				
R7	22k	C7	1u				
R8	10k	C8	220n				
R9	20k	C9	1u				
R10	4.7k						
R11	1k						
R12	1M						

DRILLING TEMPLATES

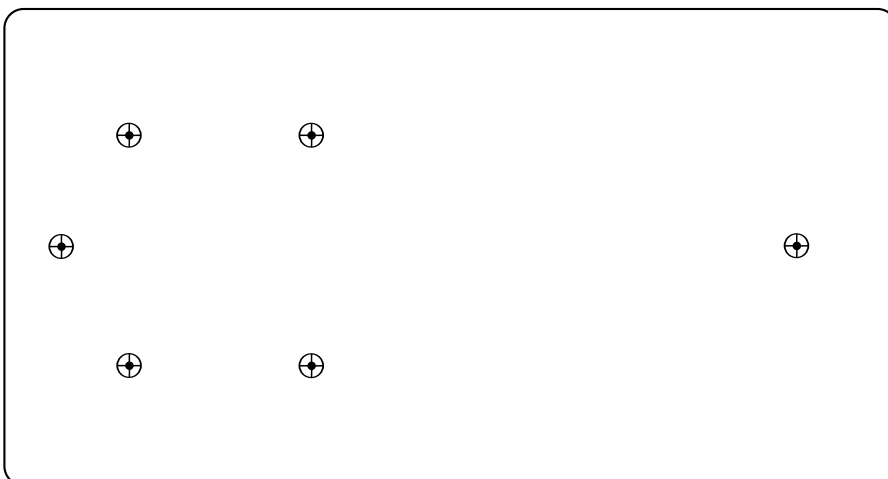
The below drilling templates are for 1590A, 1590B and 125B. The 1590A might be a very tight fit, if you don't feel comfortable I rather suggest using the larger enclosures. Also I have not tried to fit it into a 1590A enclosure, it might not work due to the dual gang pot needed.



1590A



1590B



125B