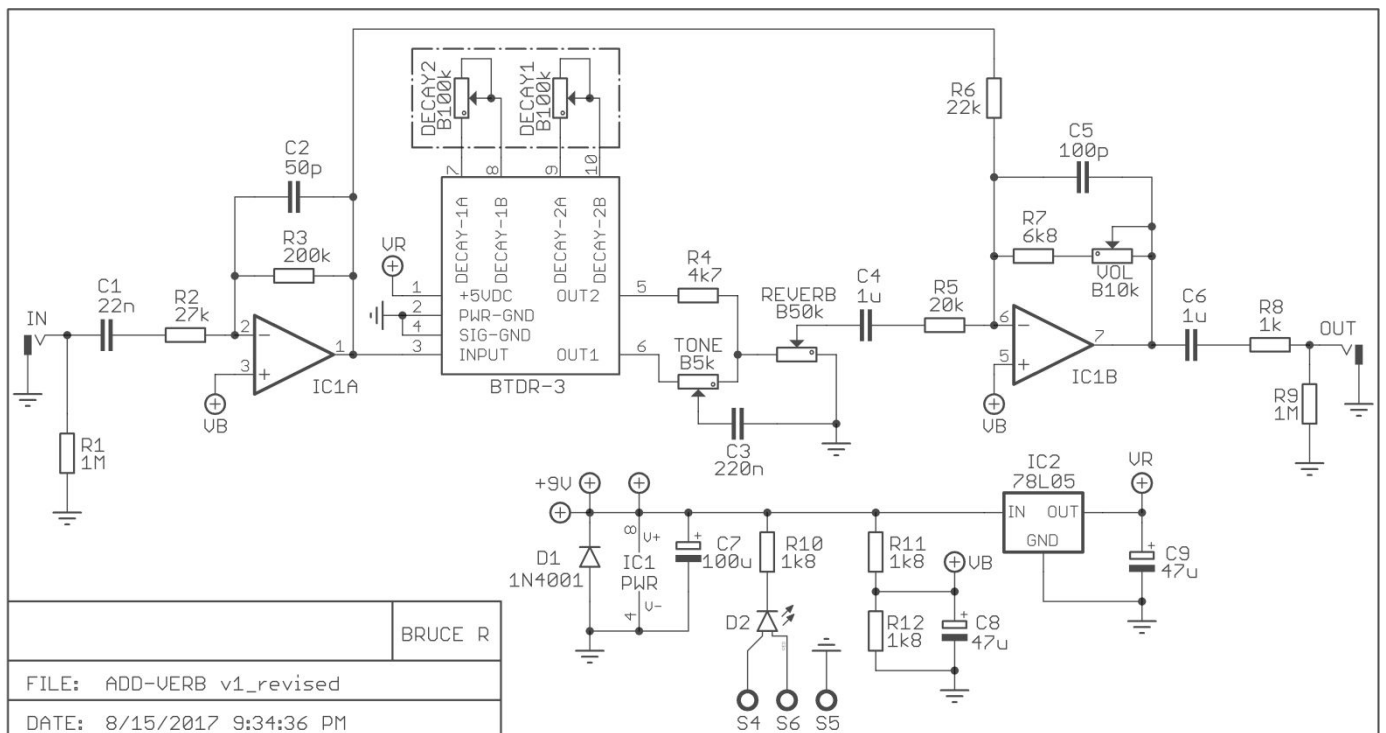
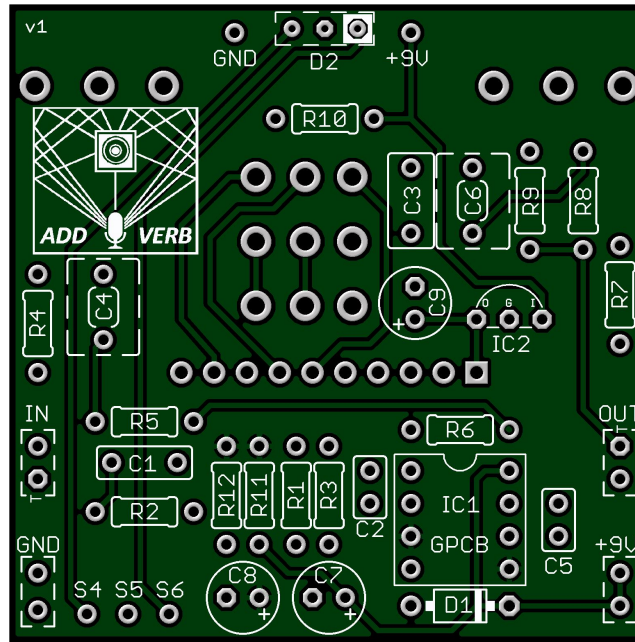


# ADD VERB

ADD VERB from slap back-style delay to natural room reverb and far beyond! Thanks to the BTDR-3 Reverb Brick and tone control by Culturejam, this circuit allows you to add quality reverb to any amplifier at the stomp of a switch.

Considering the superb effect from such a simple circuit, everyone at GuitarPCB agreed this is a real winner!

The four controls are: Volume, Reverb, Tone and Decay. Everything needed for perfect reverb tone!



**Build Notes:** The BTDR-3H should be soldered last as it will cover the underside of the PCB. Make sure you have double checked all component values, orientations and solder joints first before soldering in the BTDR-3H.

**MOD:** The Dual Gang 100k Decay potentiometer allows for the maximum decay. If you want tighter control with shorter, more natural decay lengths you can use a dual gang 10k instead. You must use a Dual Gang Potentiometer!

## Bill of Materials

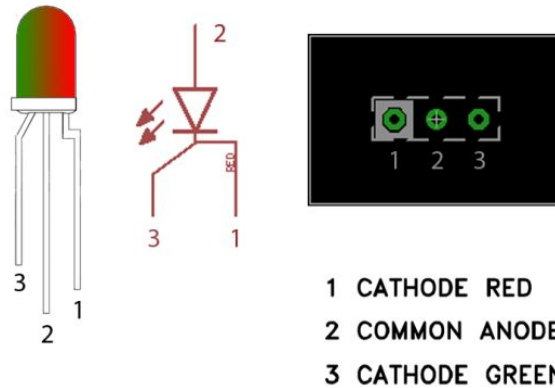
Part	Value	Part	Value	Part	Value
R1	1M	R12	1k8	REVERB	B50k
R2	27k			TONE	B5k
R3	200k	C1	22n	VOL	B10k
R4	4k7	C2	50p	DECAY	B100k - <b>Dual Gang</b>
R5	20k	C3	220n	BTDR-3H	BTDR-3H Reverb Brick
R6	22k	C4	1u		
R7	6k8	C5	100p	IC1	TL072
R8	1k	C6	1u	IC2	78L05
R9	1M	C7	100u		
R10	1k8	C8	47u	D1	1N4001
R11	1k8	C9	47u	D2	LED BiColor CA

## Additional Build Notes

**BTDR-3H** Reverb Brick may be purchased in the USA at [Amplified Parts](#) or Google. [Das Musikding](#) in Europe.

**D1** is a reverse polarity protection. **D2** is an option to use the board to hold the Bi-color status LED.

**R10** – Current Limiting Resistor for on-board Bi-color LED. This may be adjusted to 4k7 for a dimmer light.



The diagram above shows the pin-out, schematic symbol and pad connection for a common anode LED.

The pin-out for the bi-color LED is as follows:

1<sup>st</sup> Colour Cathode      90 degree bend in the lead  
Common Anode Middle lead  
2<sup>nd</sup> Colour Cathode      45 degree bend in the lead

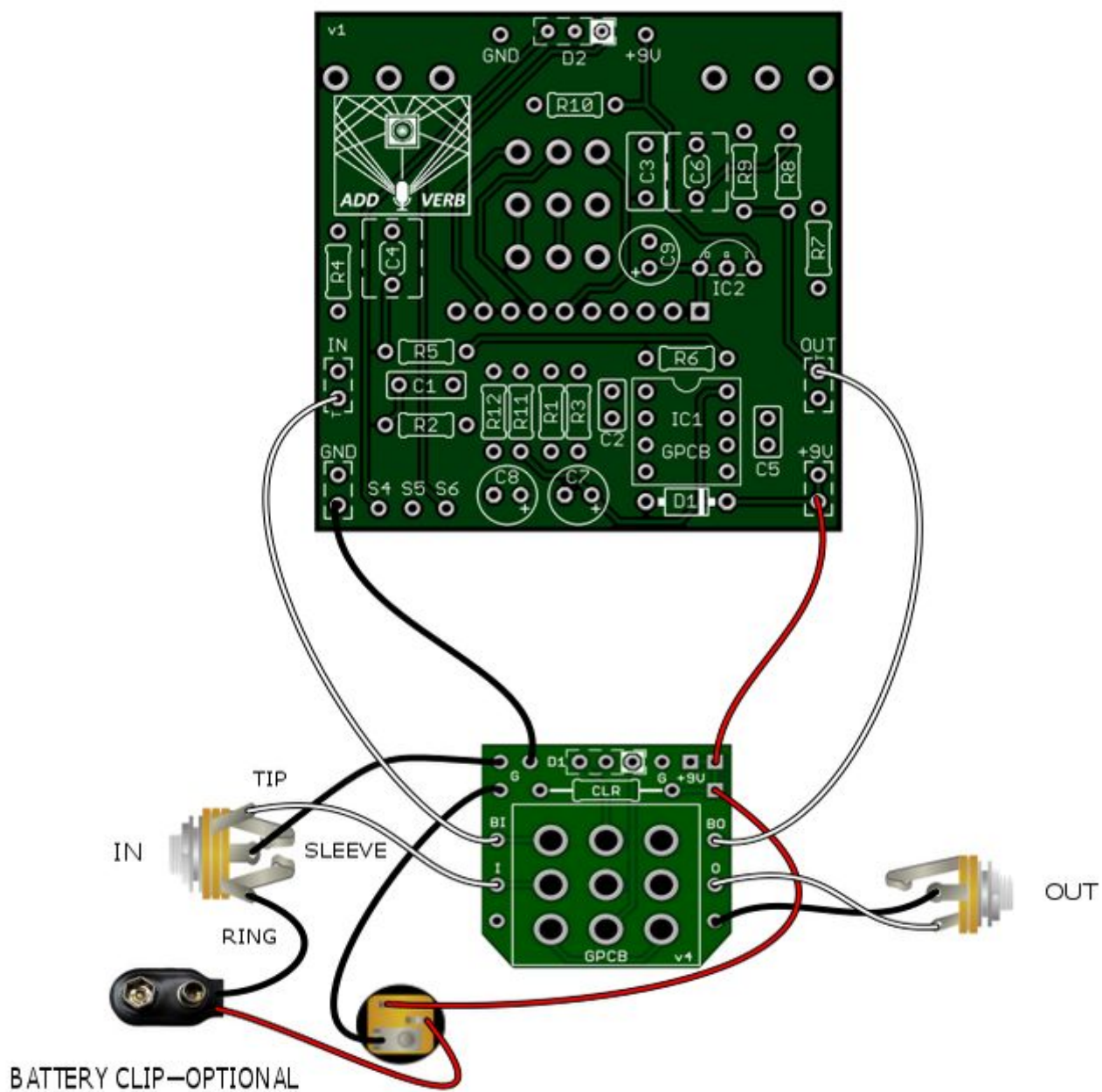
The pad for lead 1 on the circuit board is marked with a white box.

When connected correctly the LED will light red when power is applied and the circuit is in bypass mode. The LED will light green when in effects mode. When choosing a standard LED use center anode and non-white box.

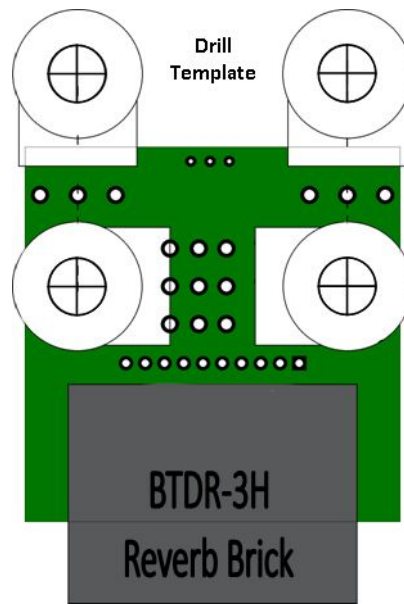
Using a standard LED, connect the anode to the middle pad and the cathode to the right pad to show the circuit in effects mode.

## [ADD VERB Video Demo](#)

# ADD-VERB WIRING DIAGRAM



See next page for drill template.



**Cut out for drill template (Be sure to match with your board)  
Be careful. Drill enclosures safely and at your own risk.**



If you are using top mount In/Out Jacks we suggest [Switchcraft #111](#) can also be purchased from Small Bear like the 16mm Right Angle [On-Board Potentiometers](#). If you want side jacks try P.P.A.K.'s [Mini Open Jacks](#). We recommend drilling Pot holes 5/16" minimum or 8mm to allow an easier fit of the Potentiometers.

### [Soldering Tutorial on Youtube](#)

Need a kit? Check out our authorized worldwide distributors:

USA – Check out [PedalPartsAndKits](#) for all your GuitarPCB kit needs in the USA.

Europe – [Das Musikding](#) Order either boards or kits direct from Europe.

[PedalPartsAustralia](#) - Order either boards or kits direct from Australia

If they do not have a KIT listed send them a note asking if they can help you out.



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