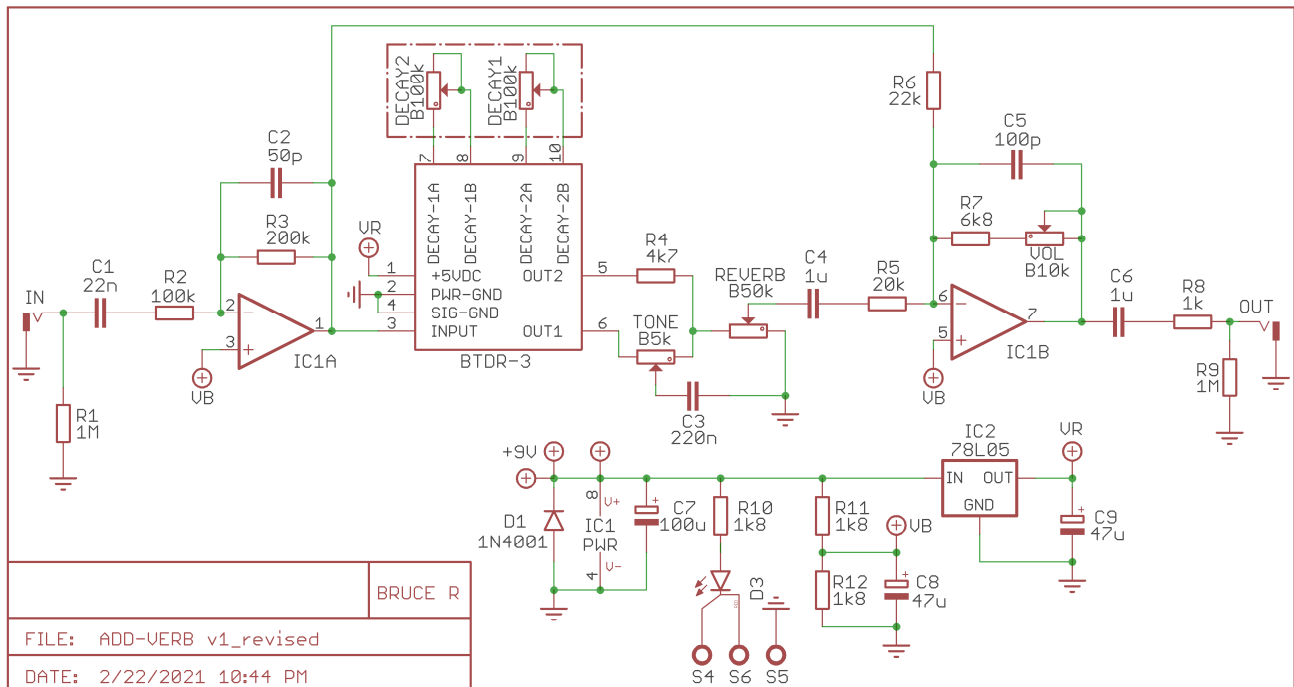
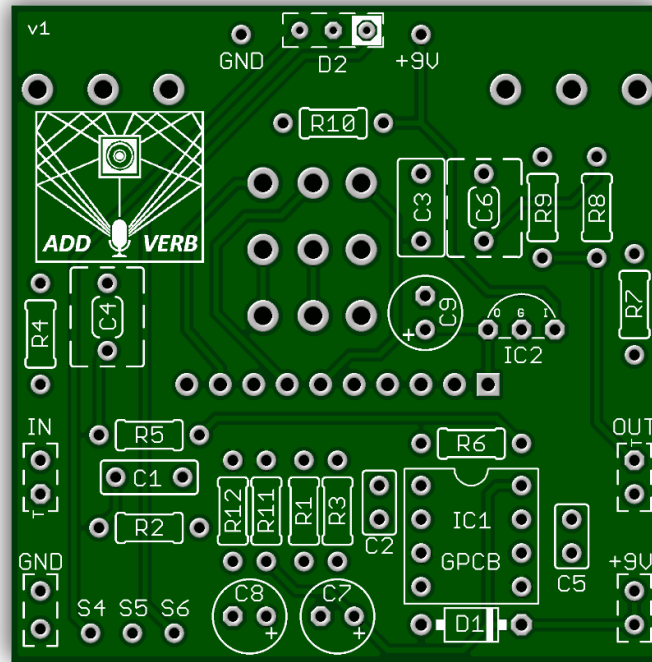


# ADD VERB

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 a 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.

## Bill of Materials

Part	Value
R1	1M
R2	100k
R3	200k
R4	4k7
R5	20k
R6	22k
R7	6k8
R8	1k
R9	1M
R10	1k8
R11	1k8

Part	Value
R12	1k8
C1	22n
C2	50p
C3	220n
C4	1u
C5	100p
C6	1u
C7	100u
C8	47u
C9	47u

Part	Value
REVERB	B50k
TONE	B5k
VOL	B10k
DECAY	B100k Dual Gang
BTDR-3H	BTDR-3H Brick
IC1	TL072
IC2	78L05
D1	1N4001
D2	LED Bicolor CA

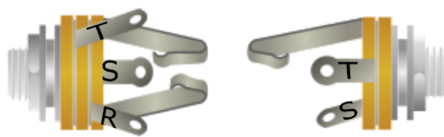
### Additional Build Notes

**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.

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

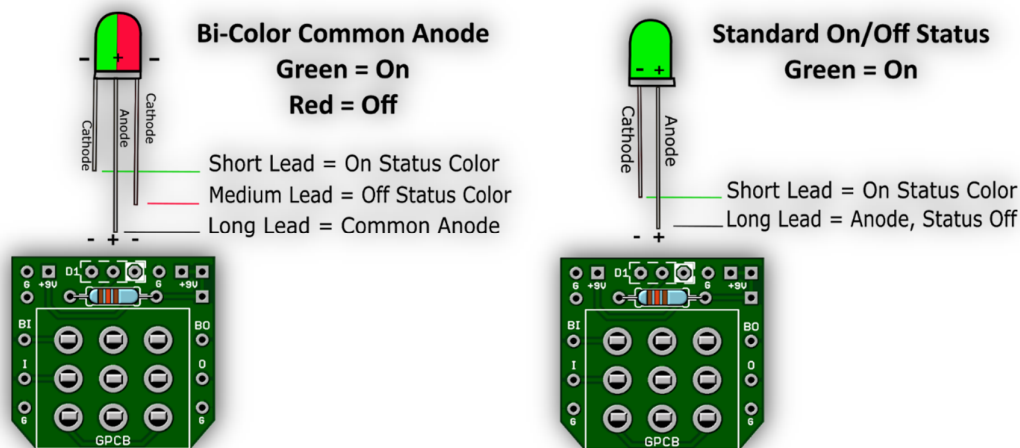


Be sure your In/Out Jack wiring is correct. A Stereo Jack (for battery use only) has a RING lug which is used to connect to the battery ground. If you do not intend to use a battery there is no need for a Stereo Jack.

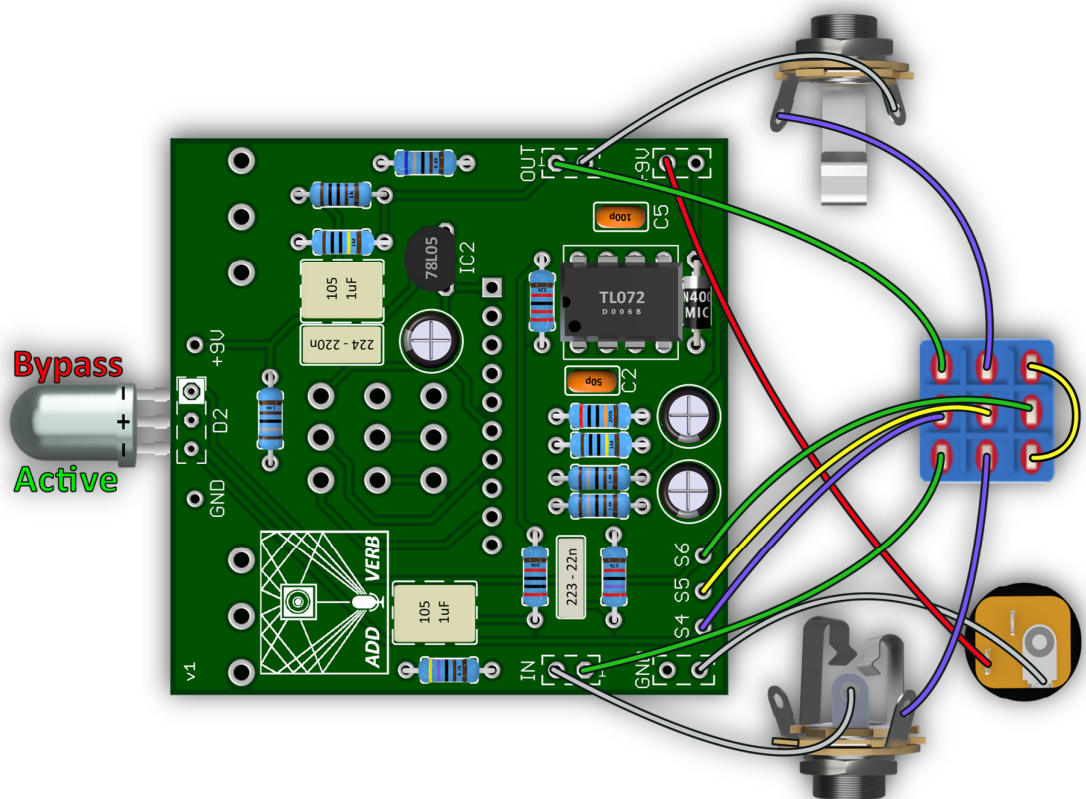
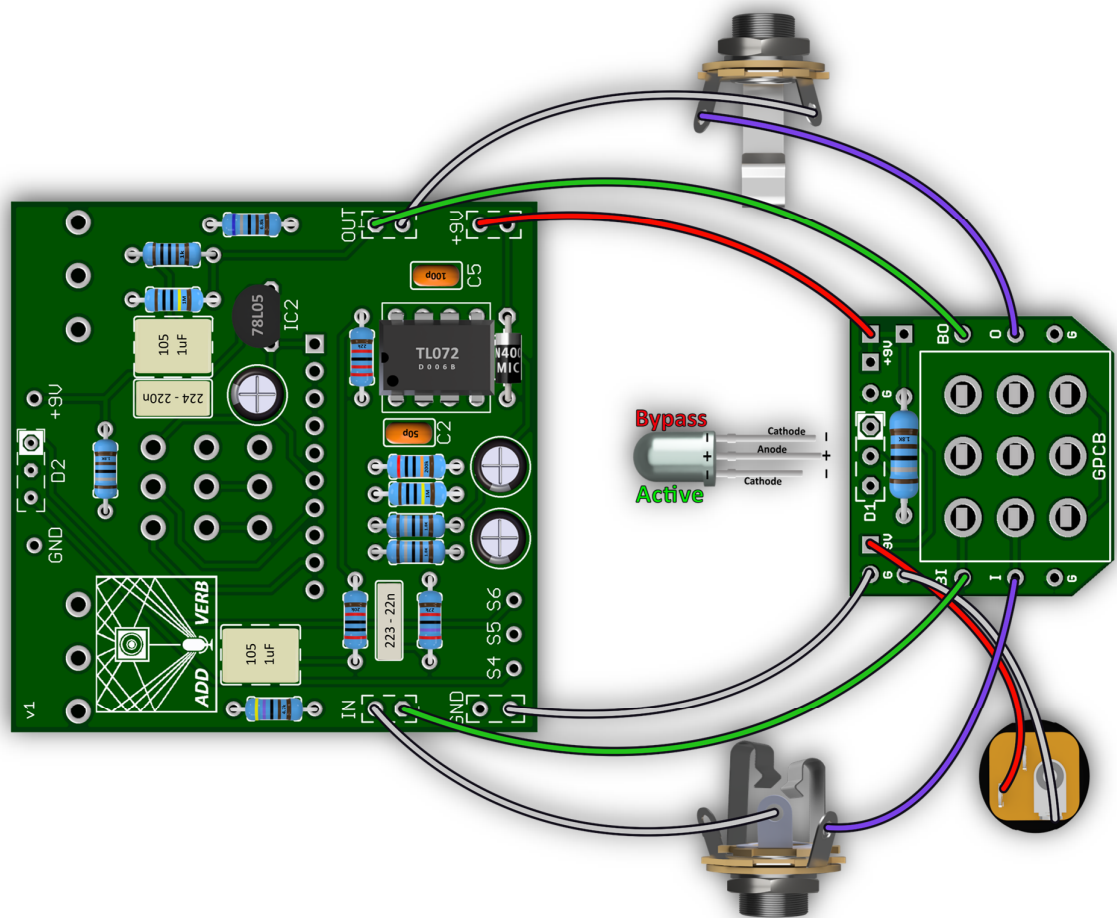
If using Stereo then only use the Tip and Sleeve lugs.

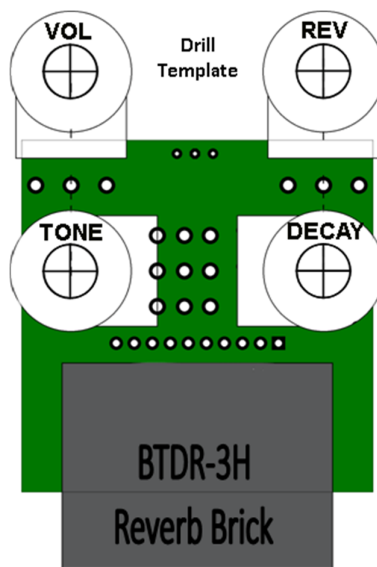
If using our convenient 3PDT Wiring Boards (below) here is an LED wiring guide. You may use Common Anode Bi-Color or Standard On/Off. The wiring boards use the same symmetrical layout as if wiring straight to the switch.

### STATUS LED



**Note:** If wiring the LED to our 3PDT board no need to connect S4, S5 & S6 or populate D2 or R10 (CLR) on the main board since you are wiring your LED directly to our board.



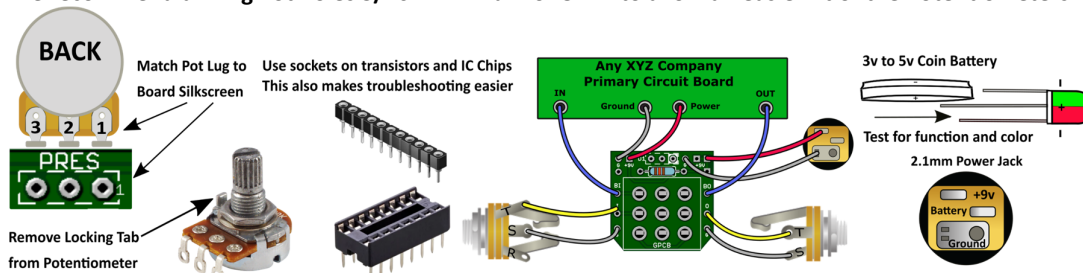


**Cut out for drill template (Be sure to match with your board)**  
**Be careful. Drill enclosures safely and at your own risk.**

**Drill Tips:** Measure your components before selecting a drill bit. We recommend drilling the pot holes, mounting the pots in the enclosure, and then soldering the pots to the board. This approach should resolve the issue of the pots not fitting through the holes after soldering. We also recommend you make the holes for the pots a little larger than the threads in case you decide to remove the board and put it back in during the build, to avoid problems. Use this guide at your own risk. Make sure page scaling is turned off when you print this PDF, or the image above may be smaller than expected. Verify everything before drilling.

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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