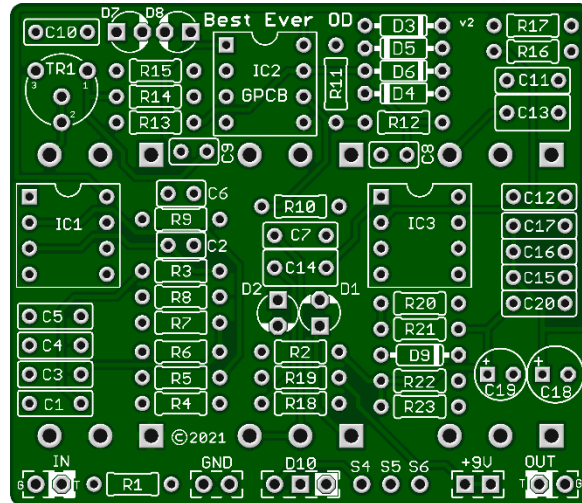


Best Ever - O.D. v2 2021

Based on the Brown Sound tones found in the Friedman BE-OD™ amplifier. In addition to Bass, Treble and Presence controls just like the amp this circuit features a Tight control allowing you to incrementally remove any unwanted loose bottom end. An on-board trimmer feature allows you to adjust the Gain Range to suit your style.



Board Dimensions (W x H) 2.25" x 1.95"

Part	Value
R1	1M
R2	470k
R3	10k
R4	22k
R5	39k
R6	4k7
R7	10k
R8	22k
R9	22k
R10	22k
R11	22k
R12	220k
R13	10k
R14	10k
R15	2k2
R16	33k
R17	33k
R18	10k
R19	1k8*

Part	Value
R20	10R
R21	10k
R22	10k
R23	2k2
C1	22n
C2	47p
C3	10n
C4	1n
C5	100n
C6	47p
C7	47n
C8	120p
C9	100p
C10	10n
C11	4n7
C12	22n
C13	220n
C14	220n
C15	100n

Part	Value
C16	100n
C17	100n
C18	100u
C19	22u
C20	100n
D1, D2	Red LED-3mm
D3-D6	1N4148
D7, D8	Red LED-3mm
D9	1N5817
D10	Status LED
IC1-IC3	TL072
BASS	C100k
GAIN	B1M
PRES	C10k
TIGHT	C100k
TREB	B100k
VOL	A50k
TR1	*30k

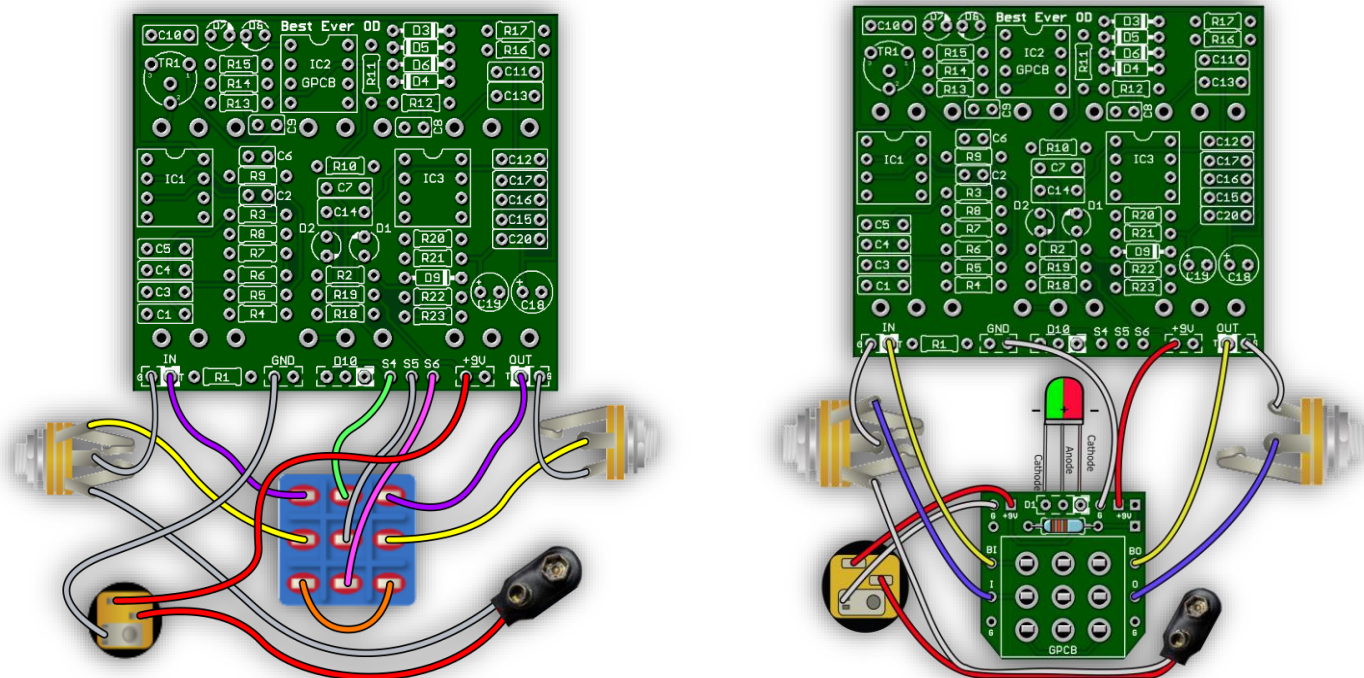
STATUS LED

*D10 is a Status LED that can be either a Bi-Color Common Anode or a Standard On/Off LED. (See Tip Sheet)

STATUS LED

***D10** is a Status LED that can be either a Bi-Color Common Anode or a Standard On/Off LED. (See Tip Sheet)

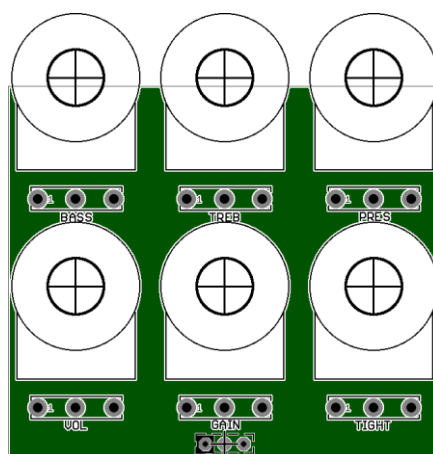
Wiring Diagram



Build Notes: If you are using our 3PDT board, you should omit wires and parts from S4, S5 & S6, D10 and R19 (CLR). The CLR and LED will be populated on the 3PDT board instead.

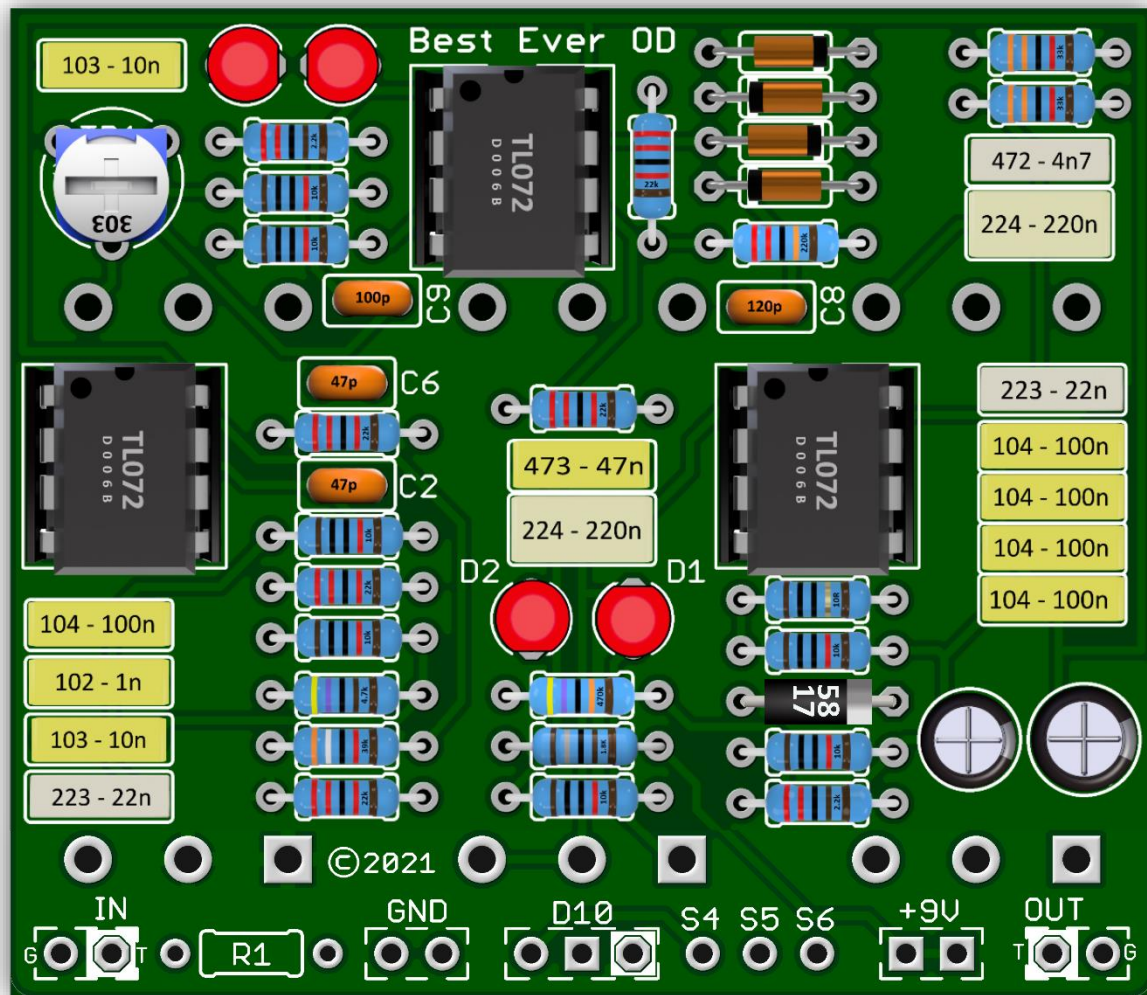
TR1 can be increased to 50k or even 100k for more available Gain however this can cause noise or even oscillation if you start turning controls to their maximum settings. 30k achieves excellent Brown Sound tones.

Drill Template



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.

Populated board for troubleshooting purposes.



For more build guides and tutorials please visit the [Guides Page](#) at GuitarPCB.com

For specific build support please visit our dedicated [Support Forum](#)

[Soldering Tutorial on YouTube](#)

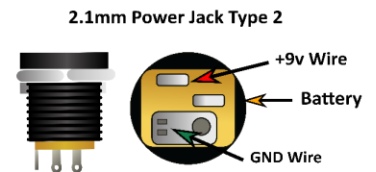
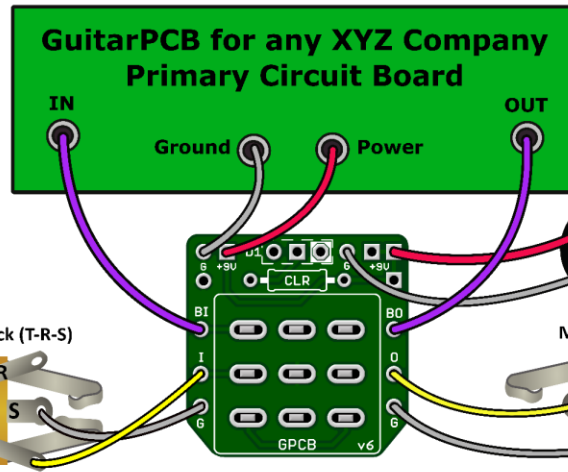
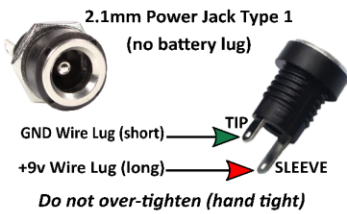
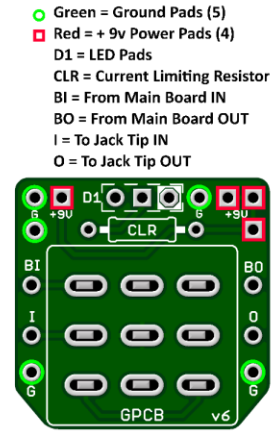
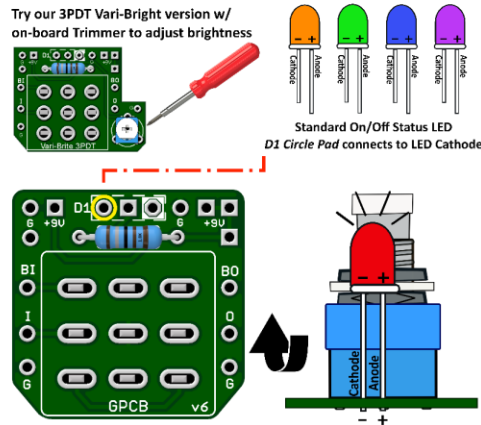
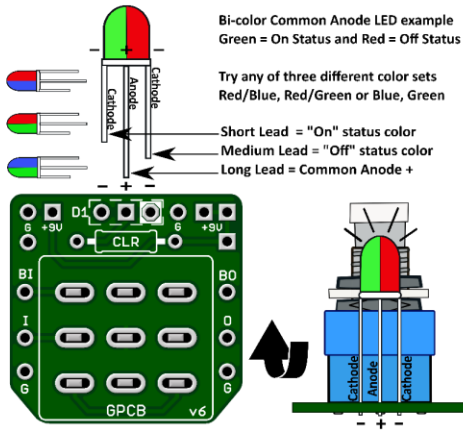
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- Europe – [Das Musikding](#) Order either boards or kits direct from Europe.
- [PedalPartsAustralia](#) - Order either boards or kits direct from Australia

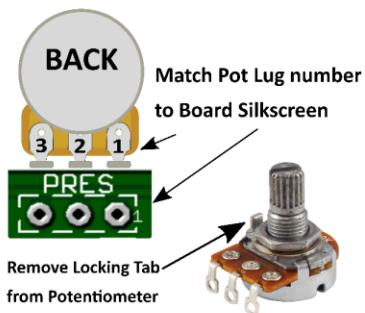
COLOR	1st Band	2nd Band	3rd Band	Multiplier	Tolerance
BLACK	0	0	0	1Ω	
BROWN	1	1	1	10Ω	±1%
RED	2	2	2	100Ω	±2%
ORANGE	3	3	3	1KΩ	
YELLOW	4	4	4	10KΩ	
GREEN	5	5	5	100KΩ	±0.5%
BLUE	6	6	6	1MΩ	±0.25%
VIOLET	7	7	7	10MΩ	±0.10%
GREY	8	8	8	100MΩ	±0.05%
WHITE	9	9	9	1GΩ	
GOLD				0.1Ω	±5%
SILVER				0.01Ω	±10%



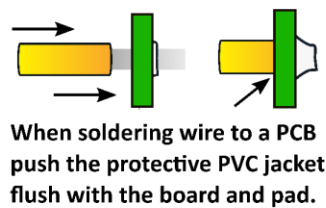
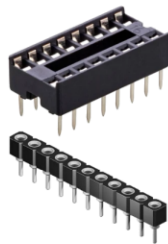
GuitarPCB Tip Sheet



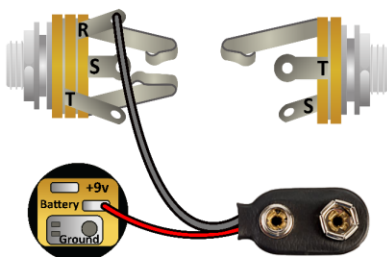
Multiple +9v and Ground Pads are convenient hookup points for additional circuits within the same enclosure. This also allows for diverse wiring schemes to suit individual needs.



Sockets make troubleshooting easier



Main Board IN/OUT Pads



Input/Output Jack Wiring

T = Tip | R = Ring | S = Sleeve

A Stereo Jack is only needed if using a Battery. Otherwise use a Mono Jack
Battery Strap RED wire is connected to Power Jack
Battery Strap Black wire is connected to RING (stereo jack)
If wiring an LED to our 3PDT Wiring Board then S4, S5 & S6 are not needed



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