GuitarPCB Presents

“Bridge of Sighs” - Dual Combo

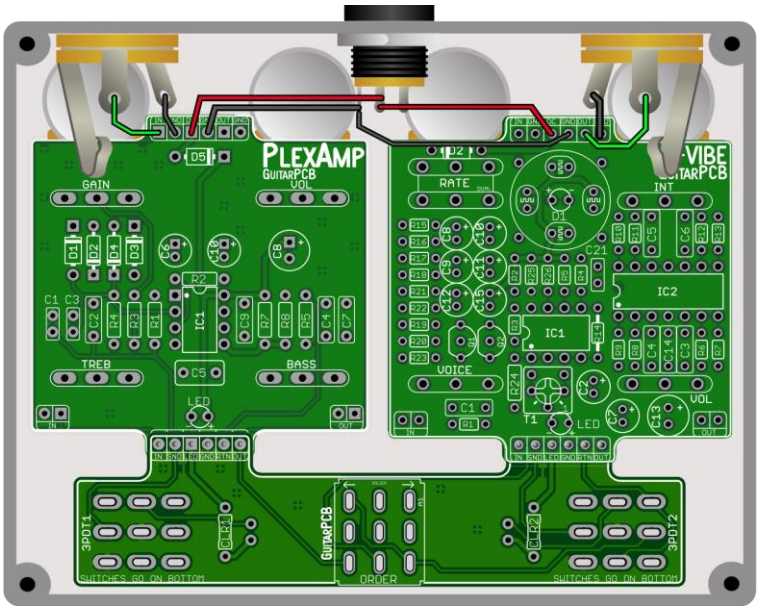
Introducing the “Bridge of Sighs” Dual Combo, designed to capture the legendary tones of Robin Trower. This Combo pairs the VIBE and Plexamp circuits, crafted to work seamlessly together to recreate Trower’s iconic vintage sounds. With built-in order switching, this setup opens a new realm of tones previously unavailable in a single pedal format.

The VIBE circuit delivers rich, swirling modulation inspired by classic analog vibrato effects, giving your tone depth, movement, and a lush, expressive character. With controls for Speed, Intensity, Volume, and Tone, you can dial in subtle shimmer or full-bodied vibrato that sings beautifully with your guitar.

The Plexamp circuit provides a high-quality Marshall-style amplifier preamp with versatile tone-shaping controls. When paired with the VIBE, it brings out the full range of classic 70s rock tones reminiscent of Trower’s signature sound. Reversing the signal path unlocks an entirely new set of inspiring textures for creative exploration.

Key Feature:

- **Built-in order switching for endless tonal possibilities, allowing reversal of the signal path using a “Stubby” or short bat switch.**

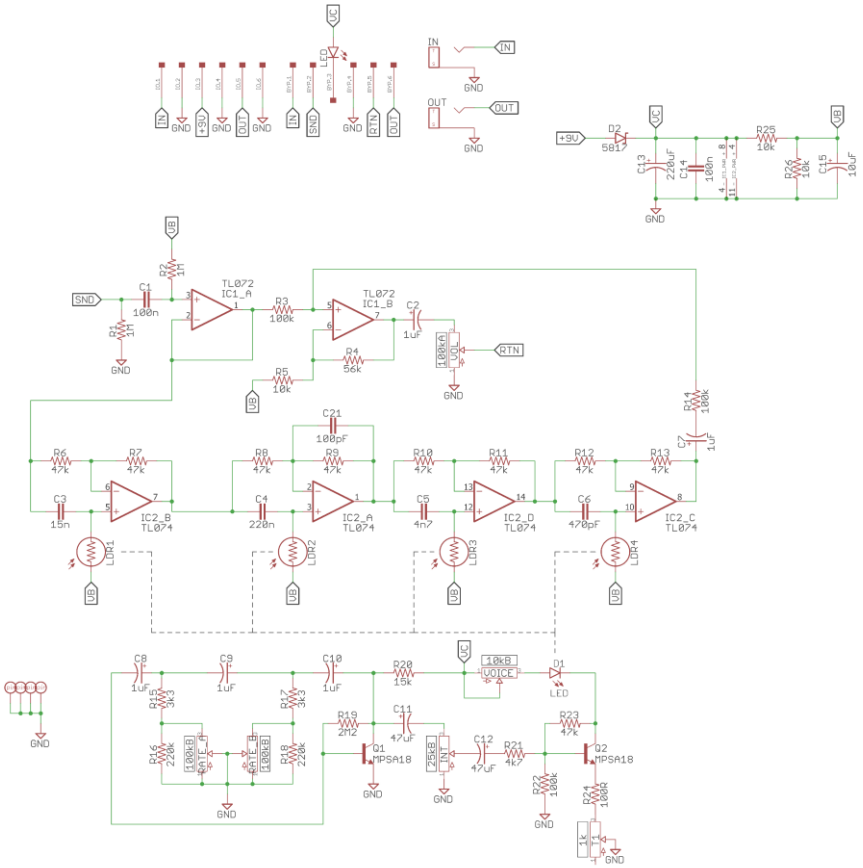


Order switching is built-in, with pin header connections making wiring a breeze.

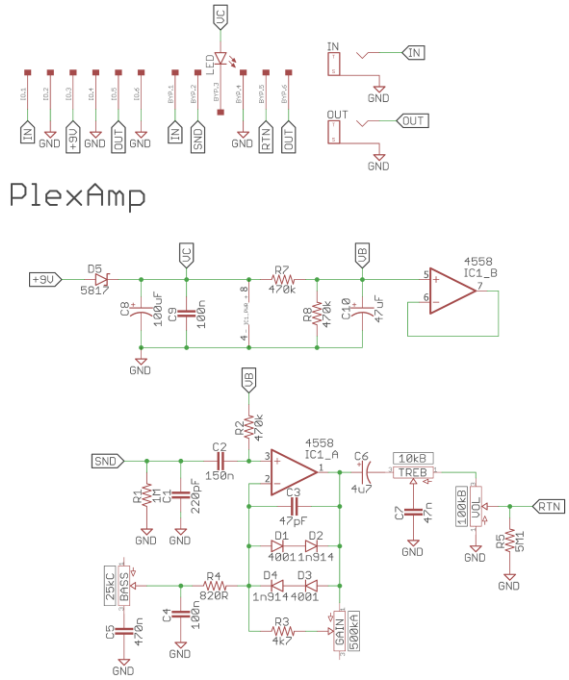
Ideal for a 1590BB2 enclosure, featuring the same dimensions as a 1590BB but with 125B clearance for jacks.

Included with each Dual Combo purchase. – (2) Mainboards, (2) pin headers, (1) Dual wiring board.

Schematic VIBE:



Schematic PlexAmp:



Bill of Materials VIBE:

Part	Value	Part	Value	Part	Value	Part	Value	Part	Value
R1	1M	R13	47k	R25	10k	C10	1uF	IC1	TL072
R2	1M	R14	100k	R26	10k	C11	47uF	IC2	TL074
R3	100k	R15	3k3			C12	47uF		
R4	56k	R16	220k	C1	100n	C13	220uF	T1	1K Trim
R5	10k	R17	3k3	C2	1uF	C14	100n		
R6	47k	R18	220k	C3	15n	C15	10uF	LDR 1 - 4	KE-1072
R7	47k	R19	2M2	C4	220n	C21	100pF	*CLR	1k8-4k7
R8	47k	R20	15k	C5	4n7				
R9	47k	R21	4k7	C6	470pF	D1	Status LED	INT	B25K
R10	47k	R22	100k	C7	1uF	D2	1N5817	RATE	B100K Dual
R11	47k	R23	47k	C8	1uF			VOL	A100K
R12	47k	R24	100R	C9	1uF	Q1 - Q2	MPSA18	VOICE	B10k

Bill of Materials PlexAmp:

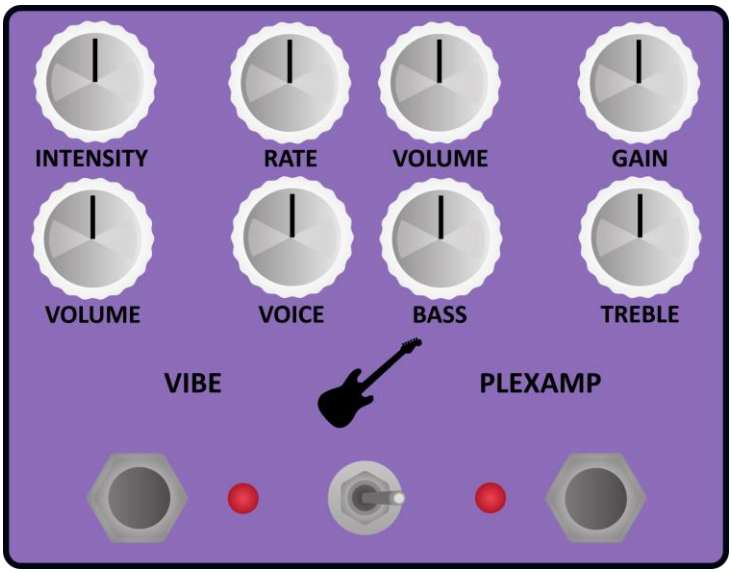
Part	Value	Part	Value	Part	Value	Part	Value
R1	1M	C1	220pF	C9	100n	D1	1N4001
R2	470k	C2	150n	C10	47uF	D2	1N914
R3	4k7	C3	47pF	VOL	B100K	D3	1N4001
R4	820R	C4	100n	GAIN	A500K	D4	1N914
R5	5M1	C5	470n	BASS	C25K	D5	1N5817
R7	470k	C6	4u7	TREB	B10K		
R8	470k	C7	47n			LED	Status
		C8	100uF	IC1	4558	* CLR x1	1k8-4k7

*** You'll need a 3PDT toggle switch On/On (solder lug version) with a short shaft (stubby) for order switching on the dual wiring board PCB.**

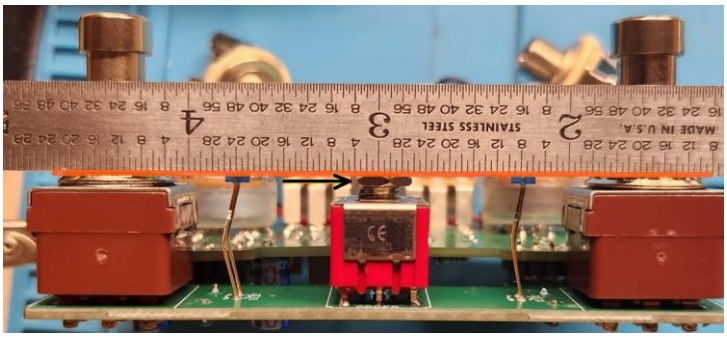
Note: BASS POT: In place of the C25K pot, a C20K pot may be used since potentiometers have a wide tolerance. A W taper is also suitable, as it combines C taper behavior for the first half of its rotation and A taper for the second. KITS may provide any of these values.

Build Notes:

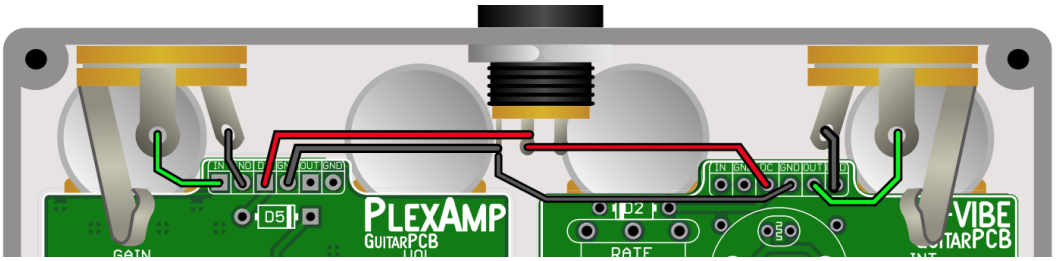
1. **Solder the short side of both pin headers to the top of each main board, pointing upward. Next, solder all three switches, and (CLRs), to the dual wiring board. Dry hang the LEDs (optional) if mounting to the dual wiring board.**
2. **Since the dual wiring board offers an additional LED location for each circuit, you can choose your preferred setup. Whichever option you pick, solder a small jumper on the unused LED pads. (CLRs) are essential regardless of the location choice.**
3. **If you order the Tayda drilled enclosure with my link (see shop page) you must install the Status LEDs on the wiring board.**
4. **Remove both nuts on each of the 3PDT foot switches for the best height match. Adjust the height of the inner Order Switch adjustment nut so it is level with the foot switches' height relative to the enclosure. Do not over-tighten the outer Switch nut.**
5. **Install the wiring board by sliding it over both pin headers. Once the foot switches and toggle switch are tightened within the enclosure, proceed to solder the long side of the pin header to the dual wiring board.**
6. *** There are two (CLR) Current Limiting Resistors crucial to protect and adjust the brightness of their corresponding status LED. You may use a value of 1k8 (Bright) to 4k7 (Dim).**
7. **When assembling the Phaser PCB, hold off on installing C1 and C13 until after the potentiometers are in place. This will provide better clearance for your soldering iron tip, making the soldering process easier.**



Order Switch Height Adjustment



Easy Wiring Diagram



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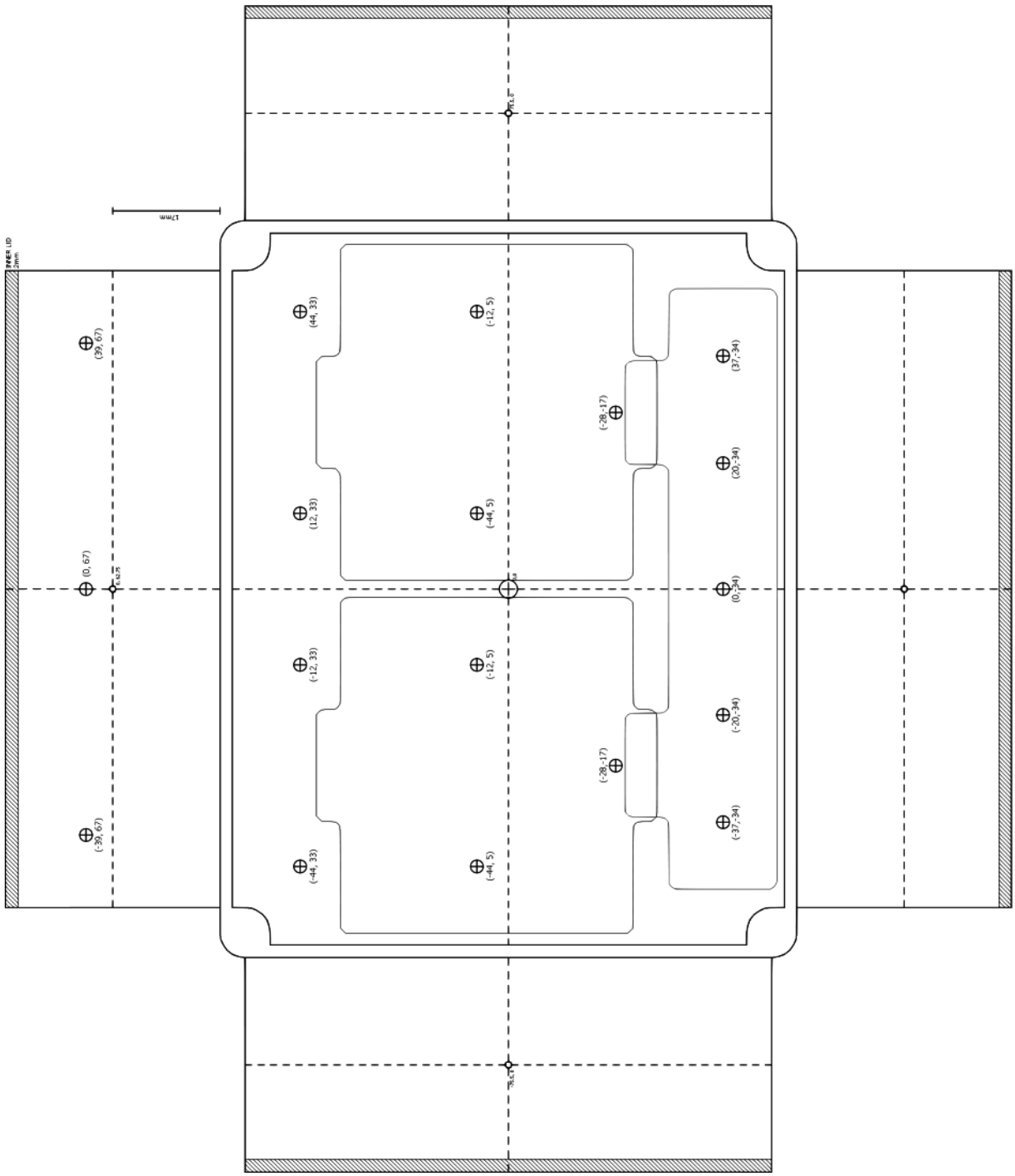

1590BB2 Drill Template

Drill only the holes required for your chosen project. LED holes can be located on either the wiring board or the main boards, giving you flexibility in how you lay out your build.

A link to a Tayda-drilled enclosure is available on the GuitarPCB Shop page. If you use the Tayda-drilled enclosure, both status LEDs must be installed on the dual wiring board.