

GuitarPCB Presents

DumbleTone Deluxe Dual Combo

The DumbleTone Deluxe combines two carefully selected circuits inspired by the original reverse engineered John Mayer Dumble units: the smooth, expressive overdrive character of a Dumble drive section and the dynamic enhancement of the preamp clean channel. With NostalgiTone order switching, each circuit can be placed before or after the other, revealing two unique signal paths with their own feel, response, and tonal character.

The JFET preamp clean channel captures the dynamic response of a classic amplifier front end, providing natural harmonic enhancement, improved touch response, and a more expressive feel under the fingers. While the original design utilized a J309 JFET, the readily available J113 has proven to be an excellent choice for this application, offering similar performance characteristics and excellent reliability. The onboard bias adjustment makes setup simple and precise.

The Input control is not a gain control. Instead, it adjusts how the preamp stage responds to the guitar signal. Increasing the control allows players to explore changes in compression, fullness, and harmonic response. Full CCW provides a thinner, precise character, and full CW delivers a fuller, rounder tone.

NostalgiTone
PRESENTS

DUMBLETONE[™] Deluxe[™]

DUAL COMBO WITH ORDER SWITCHING

MORE THAN TWO EFFECTS IN ONE BOX

Two boutique amp-inspired stages. Two signal paths. Endless tonal possibilities.

FRONTSTAGE → DUMBLETONE

PUSH THE DRIVE SECTION

- Increased gain and harmonic complexity
- More sustain and saturation
- Stronger amp-style response
- Richer overdrive character

Push the front end for a more driven, singing overdrive response.

THE MAGIC IS IN THE INTERACTION

Unlike a traditional dual pedal where each effect operates independently, DumbleTone Deluxe is designed around how two carefully selected circuits influence each other. Changing the order changes the feel, response, and character of the entire signal chain.

ORDER SWITCHING
3PDT ON/ON STUBBY SWITCH

DUMBLETONE → FRONTSTAGE

ENHANCE THE FINISHED TONE

- Adds clarity and dimension
- Enhances sustain and dynamics
- Preserves the character of the drive
- Adds fullness and presence

Refine the overdrive character with a more polished, amp-like response.

DUMBLE-INSPIRED DRIVE & PREAMP
Smooth, dynamic, and harmonically rich.

INTERACTIVE & DYNAMIC
The order you choose changes everything.

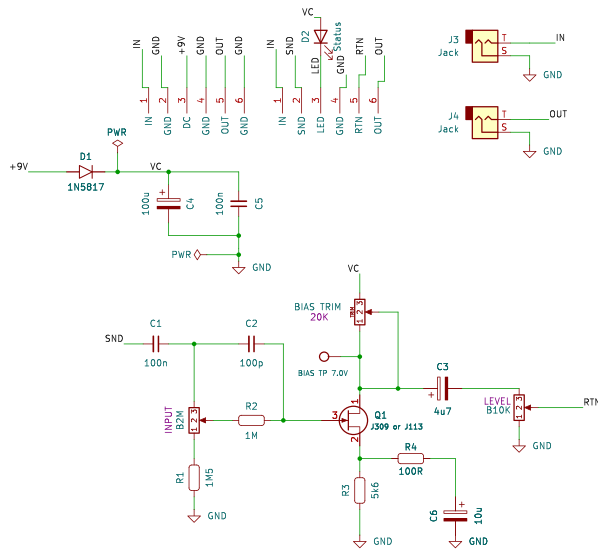
ORDER SWITCHING FLEXIBILITY
Two signal paths for inspiring tonal options.

AMP-LIKE RESPONSE AT ANY VOLUME
Touch-sensitive feel and natural dynamics.

BUILT FOR PLAYERS WHO TONE CHASE
From smooth and warm to rich and aggressive.

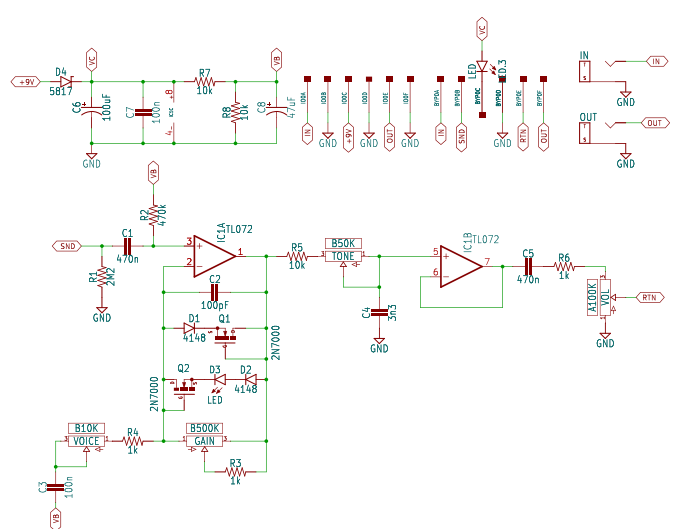
ONE PEDAL. TWO INTERACTIVE STAGES. MULTIPLE AMP-INSPIRED RESPONSES.

FrontStage



Part	Value	Part	Value	Part	Value
R1	1M5	C1	100n	D1	1N5817
R2	1M	C2	100p	D2	Status
R3	5k6	C3	4u7	BIAS TP	BIAS TP 7.0V
R4	100R	C4	100u	Input	B2M
BIAS Trim	20K	C5	100n	Level	B10K
Q1	J309 or J113	C6	10u	* CLR x 1	1K8 - 4k7

DumbleTone



Part	Value	Part	Value	Part	Value	Part	Value
R1	2M2	C1	470n	Q1	2N7000	D1	1N4148
R2	470k	C2	100pF	Q2	2N7000	D2	1N4148
R3	1k	C3	100n			D3	Red LED
R4	1k	C4	3n3	VOL	A100K	D4	1N5817
R5	10k	C5	470n	GAIN	B500K		
R6	1k	C6	100uF	VOICE	B10K	IC1	TL072
R7	10k	C7	100n	STONE	B50K	LED	Status
R8	10k	C8	47uF			*CLR x 1	1k8 - 4k7

The BOM reflects standard kit component values, including the J113 transistor, which performs very similarly in this application. The PCB also includes SMD pads for those that want to use the original J309 package.

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

Biasing Note: BIAS TP is provided as a convenient bias test point. With the circuit powered by 9V, connect your multimeter black probe to ground and the red probe to BIAS Test Point Pad. Adjust the bias trimmer until the reading is approximately 7.0V.

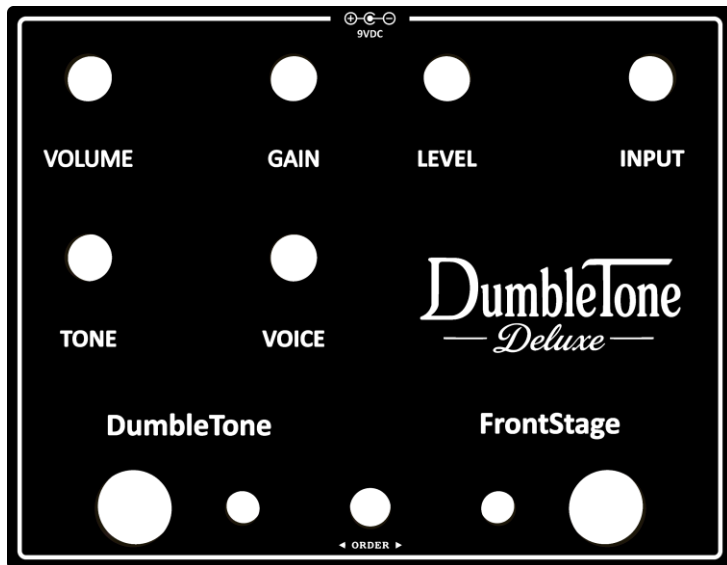
At the heart of FrontStage is a JFET preamp stage inspired by the classic amplifier front end, delivering enhanced dynamics, harmonic richness, and touch-sensitive response. The original design used the J309 JFET; the readily available J113 performs exceptionally well in this application. The 20K bias trimmer simplifies setup, while SMD pads are provided for builders who prefer the original J309 package.

Clipping Note: NostalgiTone's preferred asymmetrical clipping configuration uses 2x 1N4148 diodes with an LED for a higher clipping threshold and additional headroom that reacts more like an actual amplifier. If you would rather match the original configuration, use 2x BAT41 diodes instead of 1N4148 with a standing 1N5817 in place of the LED. Match the diode stripe to the negative (-) silkscreen marking.

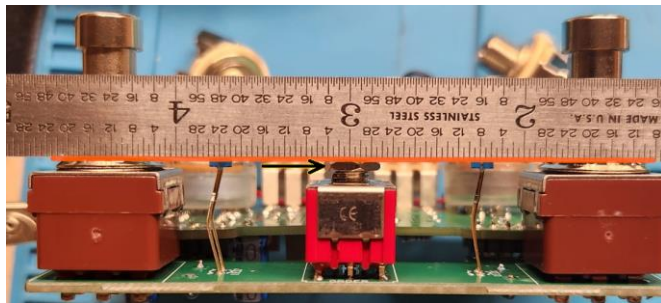
Build Notes:

1. Solder the short side of both pin headers to the top of each main board, pointing upward. Next, solder all three switches, and (CLR)s, to the dual wiring board. Dry hang the LEDs (optional) if mounting to the dual wiring board.
2. The Dual Combo wiring board includes dedicated LED locations that match the drill guide, plates, and drill files. In this case you must jumper the LED pads on each main PCB to complete the circuit. CLR)s are required regardless of LED location choice.
3. 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.
4. 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.
5. * 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).
6. You may substitute R1-1M5 to a 1M2 if you need. You may also substitute R3-5k6 to a 5k1 if you need.

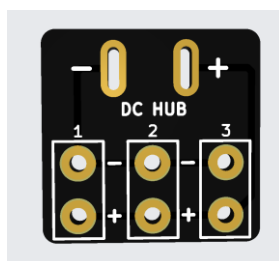
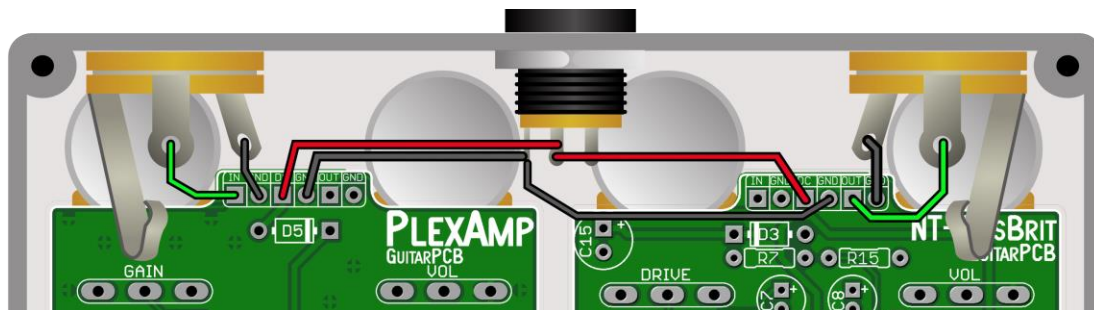
Need help or inspiration? Visit the GuitarPCB Community Forum to see other members build examples, and ask questions.
<https://guitarpcb.com/community>



Order Switch Height Adjustment



Easy Wiring Diagram



New DC Hub available now for easier DC routing to both circuits.

Designed for the 2.1mm low profile jack.



