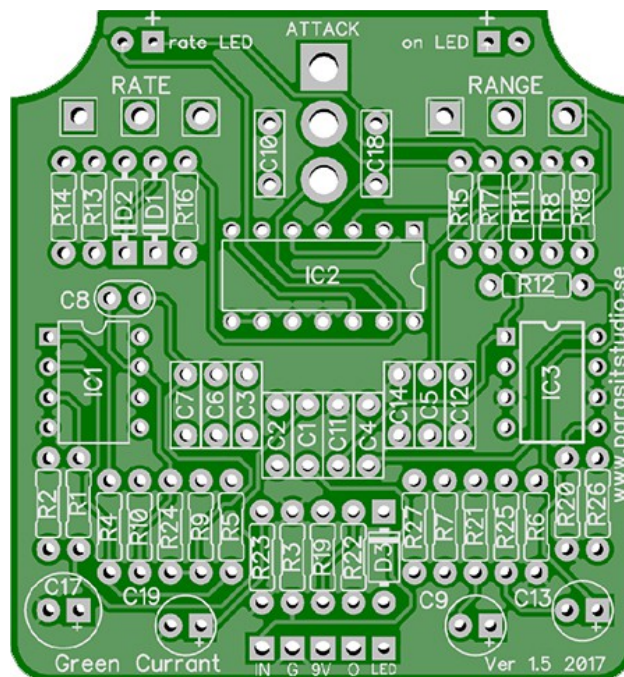


THE GREEN CURRANT TREMOLO

Build Document last updated june 2017
for PCB version 1.5

The Green Currant tremolo is a very percussive and vibey tremolo based around the TDA7052A amplifier chip. It splits the signal into two paths that are out of phase. One side is static and the other is filtered and amplitude modulated, then both paths are summed together. This results in what sounds almost like a light vibrato/phaser'ish effect. This tremolo has a range pot insted of a conventional depth pot. It controls the frequency-range of the modulation. The Attack switch toggles between hard and soft attack (saw/ramp waveshape). Happy playing!



General builds tips

- Solder the low profile components first, from short to tall. Recommended order: resistors, diodes, IC socket, film-caps, electrolytics, pots and switches
- Always use sockets for IC chips and transistors to avoid heating them directly. It also makes it much easier to swap them out if needed.
- Pay special attention to the orientation of the diodes and electrolytics.
- This PCB is designed for board mounted angled pots, but if you want to use regular solderlug-pots, the square holes represents pin 1 of the pot.
- The pots and the switch are meant to be mounted on the backside (solder side) of the board and soldered on the front (component side).

Wiring

For more info on how to wire up the stompswitch, jacks ect, please visit the Parasit Studio website and download the PDF called "offboard wiring". You can find it here:

<http://www.parasitstudio.se/build-docs.html>

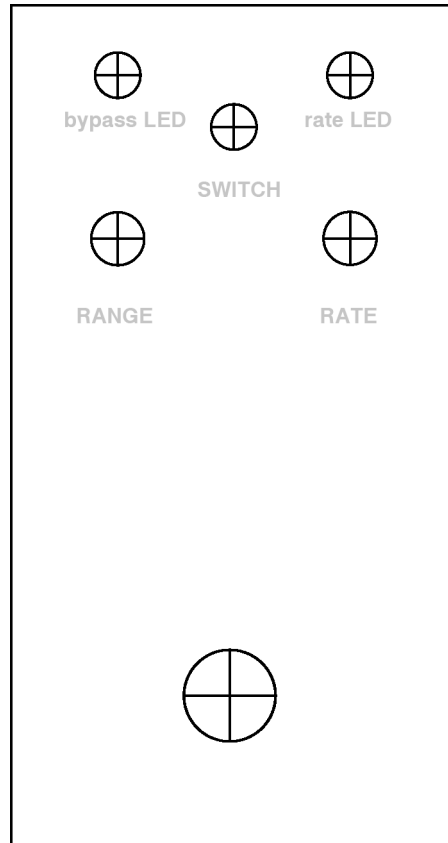
Possible mod: Use a on/off/on switch insted if you want a triangle wave-shape aswell in the middle (off) position. Personally I don't think it sounds good in this circuit, the rate is much slower and it sounds like a panting dog. But it's an easy mod so I thought it would be worth mentioning.

The Green Currant Bill Of Materials (BOM)

| Resistors | | Capacitors | | IC's | |
|-----------|------|---------------|--------|-----------------------|------------|
| R1 | 1K | C1 | 10nF | IC1 | TL072 |
| R2 | 1M | C2 | 10nF | IC2 | LM324 |
| R3 | 1M | C3 | 100nF | IC3 | TDA7052A |
| R4 | 10K | C4 | 22nF | | |
| R5 | 1K | C5 | 100nF | | |
| R6 | 47K | C6 | 15nF | | |
| R7 | 68K | C7 | 1nF | | |
| R8 | 470K | C8 | 470pF | | |
| R9 | 100K | C9 | 4.7uF | | |
| R10 | 10K | C10 | 100nF | Potentiometers | |
| R11 | 47K | C11 | 100nF | RATE | B50K |
| R12 | 33K | C12 | 220nF | RANGE | A50K |
| R13 | 47K | C13 | 1uF | | |
| R14 | 18K | C14 | 6.8nF | | |
| R15 | 510K | C17 | 220uF | | |
| R16 | 680K | C18 | 100nF | | |
| R17* | 15K | C19 | 47uF | | |
| R18 | 470K | Diodes | | Switches | |
| R19 | 47R | D1 | 1N4148 | Attack | SPDT on/on |
| R20 | 100K | D2 | 1N4148 | | |
| R21 | 100K | D3 | 1N5817 | | |
| R22 | 10K | 2x LED's | | | |
| R23 | 10K | | | | |
| R24 | 150K | | | | |
| R25 | 220K | | | | |
| R26* | 15K | | | | |
| R27 | 10K | | | | |

- * R17 is the current limiting resistor for the rate indicator LED.
R26 is the current limiting resistor for the bypass LED.
Use the appropriate value for the CLR resistors to match the brightness of your LED type. For normal diffused LEDs I recommend using 4.7K resistors and for clear superbright

Drilling template (1590B)



Use at your own risk! This template is approximate.

- Make sure your printer isn't doing any scaling / is set to 100% print size.
- Drill stomp switch, DC jack and input/output jack to your own preference.
- This is just a suggestion. If you want the DC jack at the top you should probably have the PCB a bit lower.
- Measure and confirm before drilling!

Troubleshooting

There's always a chance of running into trouble. To minimize error, follow the BOM and general building tips carefully. Take your time and don't rush. Take a break now and then. Use good solder, and it helps to have a decent soldering station insted of a cheap iron.

Musikding DIY kit

If you have bought the Musikding DIY kit and have recieved a faulty faulty, incorrect or missing component, please contact musikding.

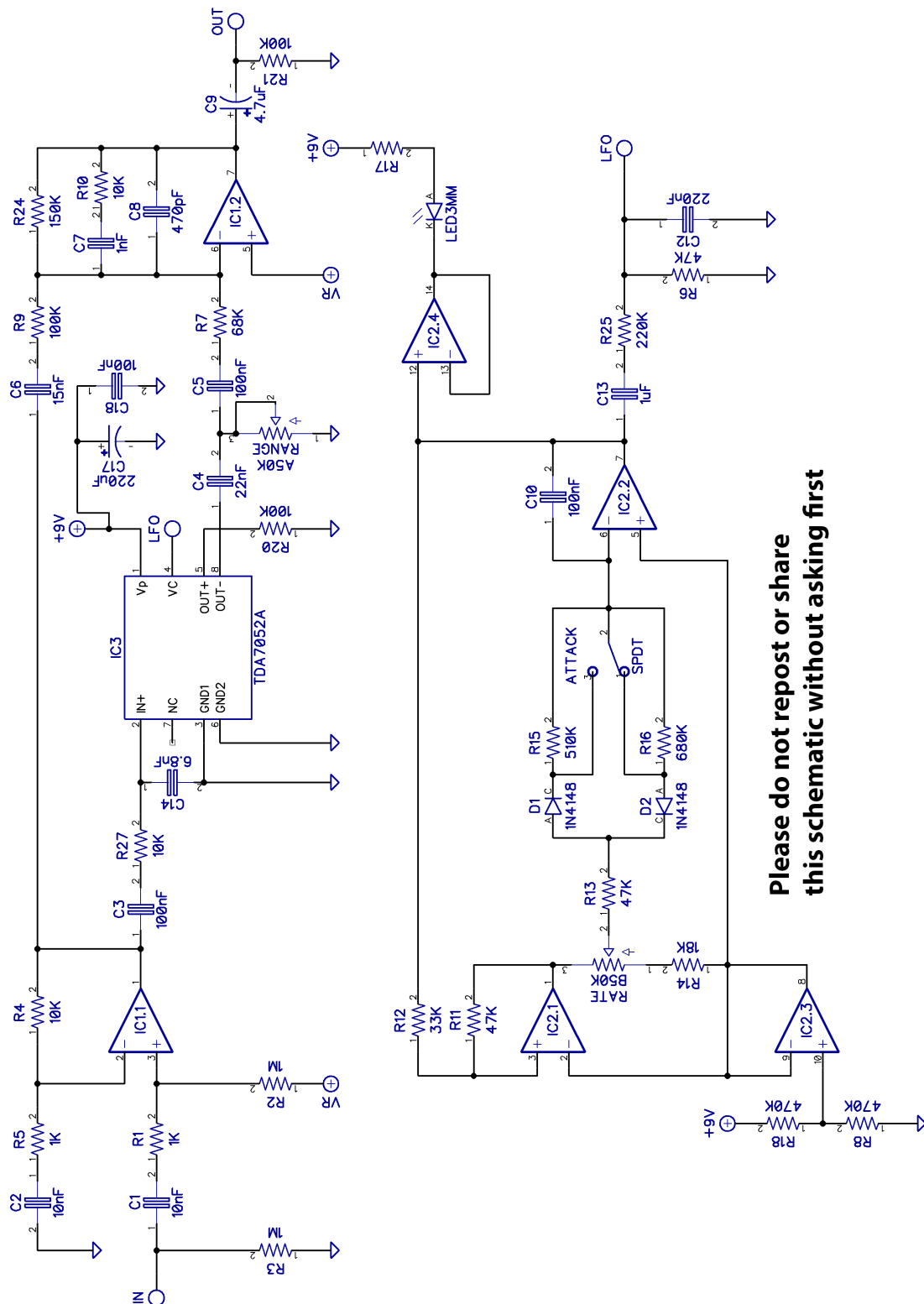
[Contact us](#)

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Schematic



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