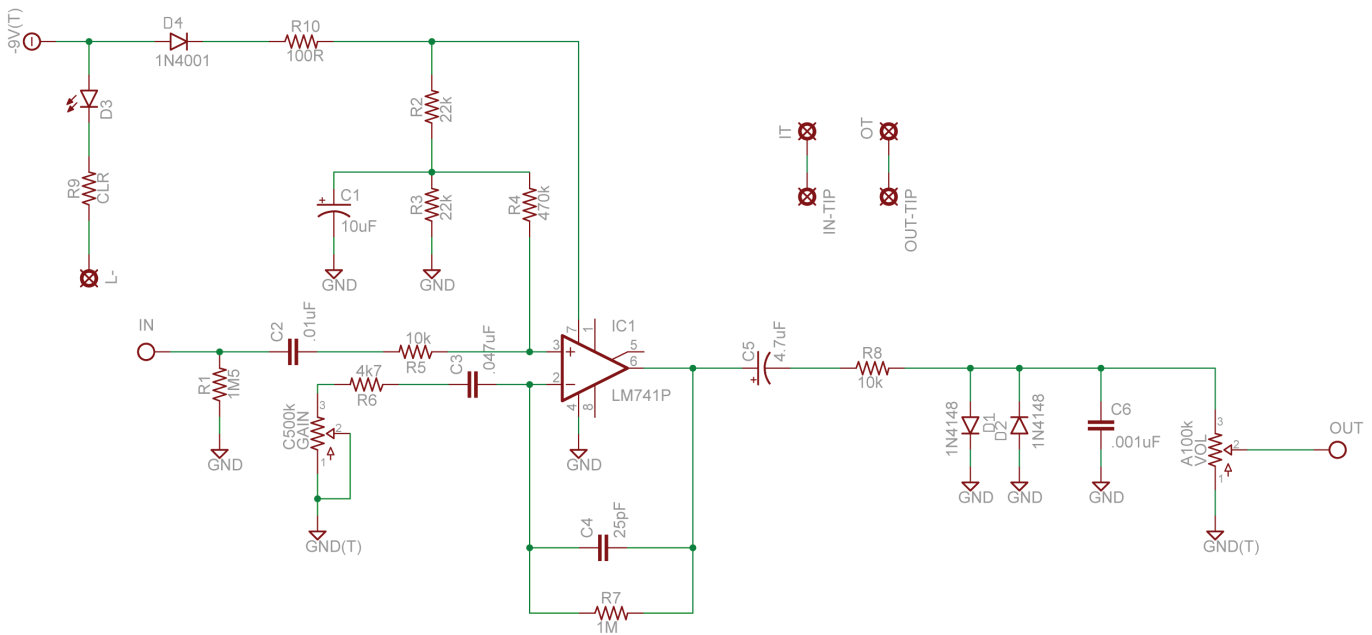
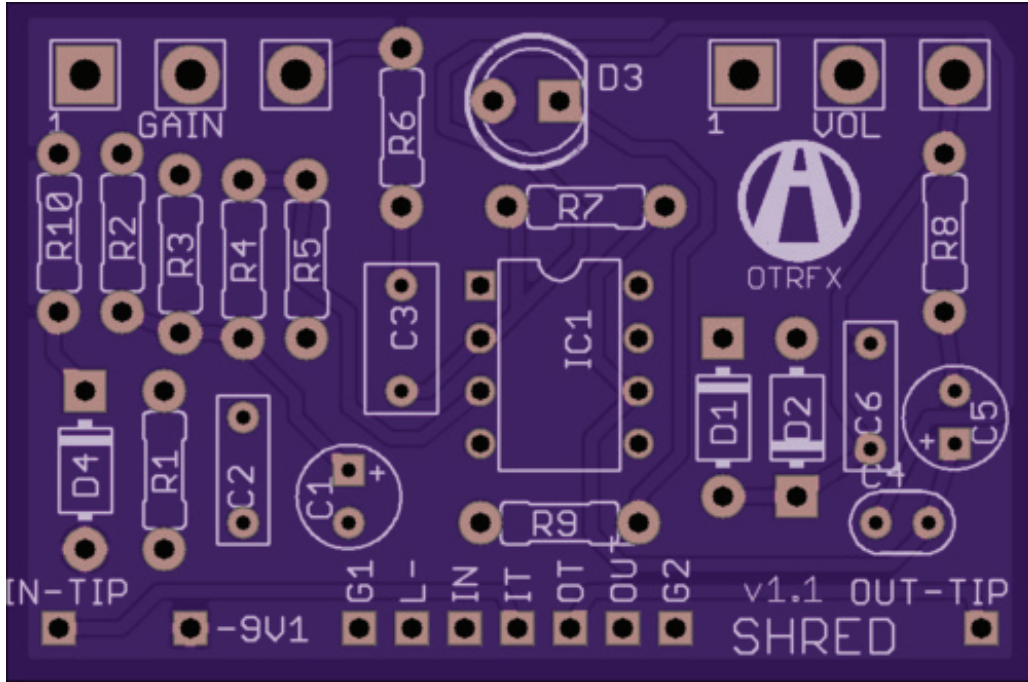




SHRED (v1.1) Build Guide



SHRED (v1.1) Build Guide

The SHRED circuit is based on the vintage DOD 250 overdrive, which can function as a clean boost, dirty boost, light overdrive or heavy fuzz-like distortion, depending on how you set the pedal's controls (and your guitar's volume and tone controls).

Modern improvements (not affecting tone) have been made, which include making the pedal true bypass, adding an on-board LED and LED current limiting resistor (CLR), and adding a polarity protection diode. Happy Shredding!

Resistors

R1	1M5
R2	22k
R3	22k
R4	470k
R5	10k
R6	4k7
R7	1M
R8	10k
R9	CLR
R10	100R

Diodes

D1	1N4148
D2	1N4148
D3	LED
D4	1N4001

Capacitors

C1	10uF	polarized
C2	.01uF	film-box
C3	.047uF	film-box
C4	25pF	ceramic
C5	4.7uF	polarized
C6	.001uF	film-box

Potentiometers

GAIN	C500k
VOL	A100k

ICs

IC1	LM741
-----	-------

GENERAL INSTRUCTION STEPS:

Important: do the assembly in the following order to avoid unnecessary hardship!



1. Install/solder all resistors & diodes that lay flat on the PCB.
2. Install/solder any sockets (for IC's, diodes, resistors.. anywhere you might want to change a part, value or type).
3. Install/solder any DIP switches (if any).
4. Install/solder all capacitors & transistors.
5. Install/solder ribbon cable connector and/or any other wiring on the PCB which go to the jacks/stomp switch.
6. Install/solder PCB mounted pots & LED
(Important: use pot dust caps or some other non-conductive material to keep back of pots from touching the back of the pcb)
7. Attach/solder wiring to the jacks/stomp switch.

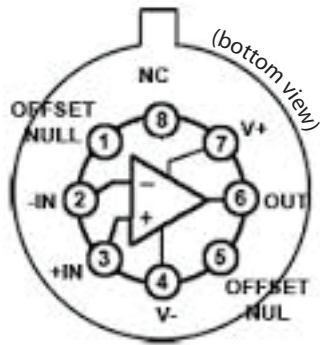
TIPS:

- Check to make sure your wiring is complete before firing up the pedal for the first time, especially the 9V & ground wiring.
- Snip your component leads short after soldering. Your solder joints should look like shiny little Hershey's Kisses when finished.
- Socket anything you might want to change, or anything that would be very difficult to remove if faulty (IC's/transistors).

SHRED (v1.1) Build Guide

ADDITIONAL NOTES

Bonus MOJO points if you can source a 'Metal-Can IC' version of the LM741. Definitely use an IC socket, and you will need to flatten out the legs into two rows.



Pinch IC legs 1 - 4 & 5 - 8 into two straight rows with needle-nose pliers and insert into IC socket. The little metal tab indicates pin 8.

RESOURCES:

Parts Ordering:

Tayda Electronics
Mouser
Love My Switches

Website:

taydaelectronics.com
mouser.com
lovemyswitches.com

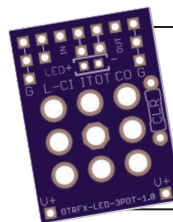
Specialties:

resistors, capacitors, diodes, sockets, LEDs, pots, knobs
resistors, capacitors, IC's
switches, knobs, enclosures, pre-wired LEDs



PEDAL BUILDER'S VECTOR PACK

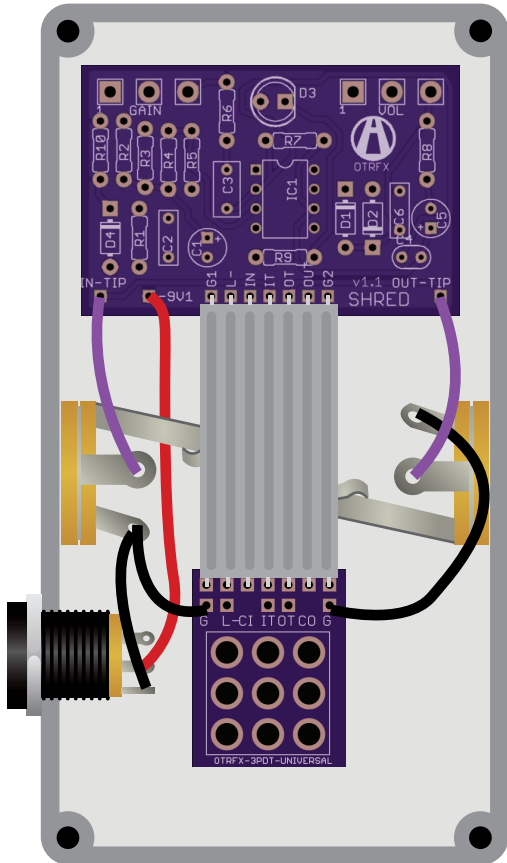
Plan, design, test-fit, & print your DIY pedals with ease!
Visit ontheroadeffects.com



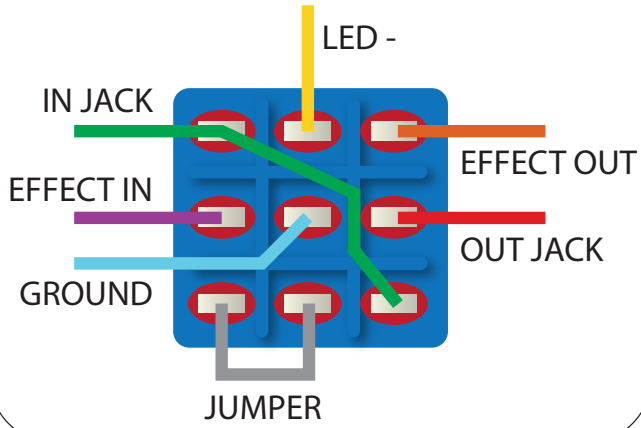
HATE WIRING STOMP SWITCHES?

Stock up on our handy 3PDT wiring boards!
Visit ontheroadeffects.com

SHRED (v1.1) Build Guide



True Bypass Wiring



Pots/LED Drill Holes

