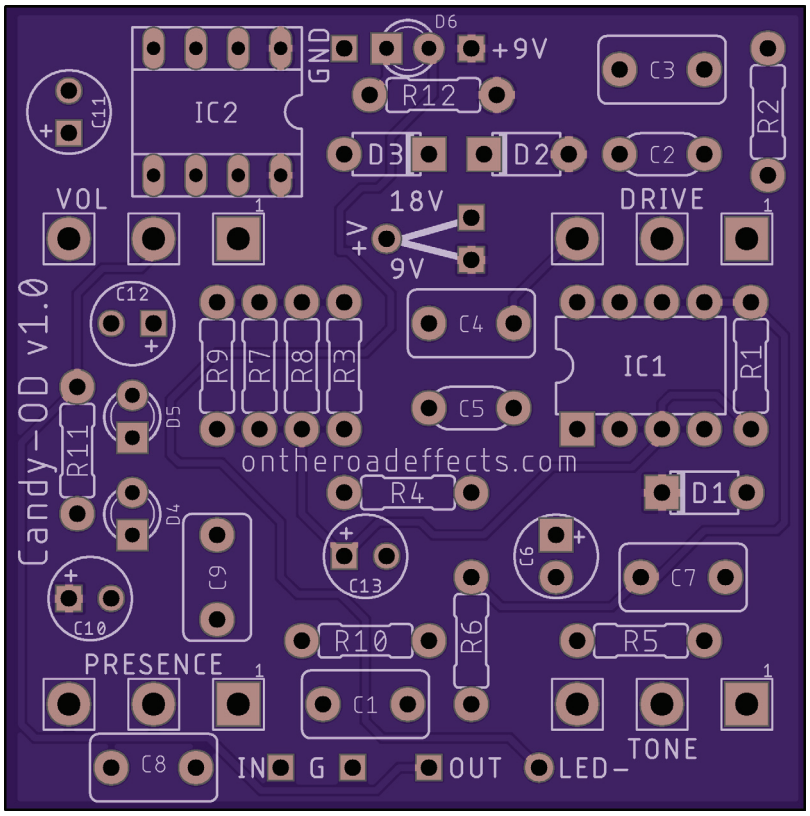
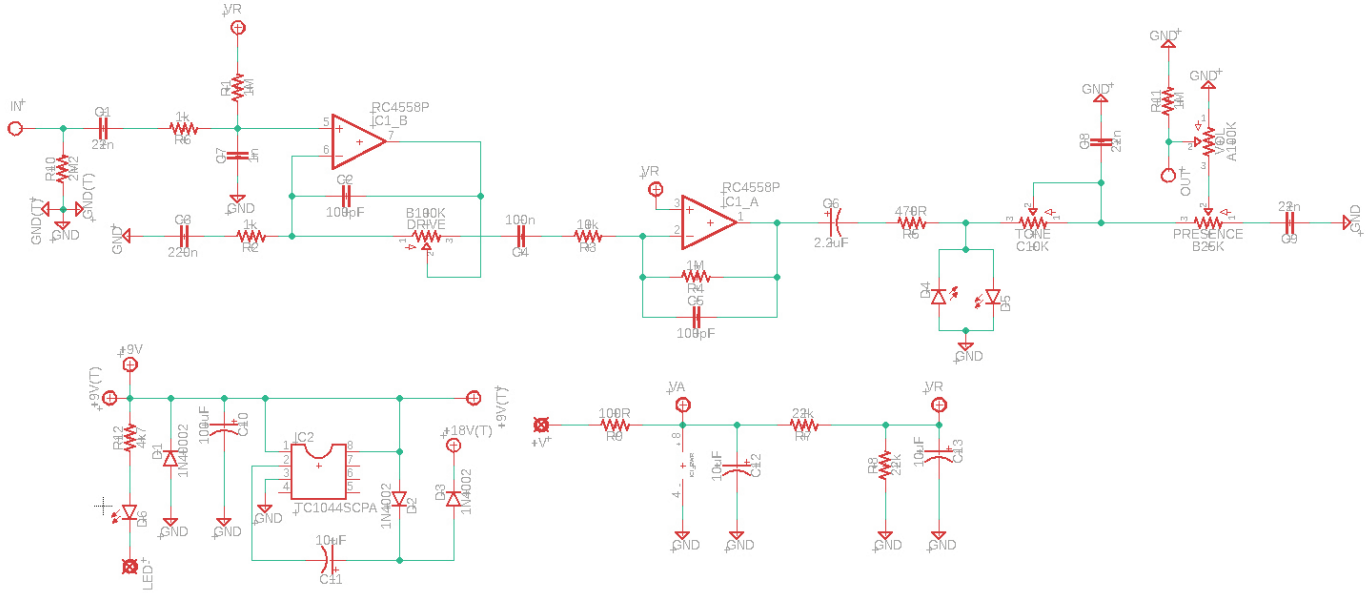
ON THE ROAD EFFECTS

CANDY-OD (v1.0) Build Guide





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The CANDY-OD circuit is based on the MI Audio Crunchbox distortion pedal, and excels at Plexi tones. Features the classic controls: Volume, Tone and Gain, plus an internal presence control from the original that we moved to the outside of the pedal, due to it's usefulness. Also added is a charge pump circuitry, which offers the ability to double the voltage to 18V for more headroom and dynamics.

Resistors

R1	1M
R2	1k
R3	10k
R4	1M
R5	470R
R6	1k
R7	22k
R8	22k
R9	100R
R10	2M2
R11	1M
R12	CLR*

*CLR = LED Current Limiting Resistor. Try 2.2K.

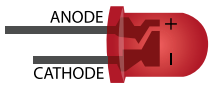
Capacitors

C1	22n	FILM
C2	100pF	MULTILAYER CERAMIC
C3	220n	FILM
C4	100n	FILM
C5	100pF	MULTILAYER CERAMIC
C6	2.2uF	POLARIZED ELECTROLYTIC
C7	1n	FILM
C8	22n	FILM
C9	22n	FILM
C10	100uF	POLARIZED ELECTROLYTIC
C11	10uF	POLARIZED ELECTROLYTIC
C12	10uF	POLARIZED ELECTROLYTIC
C13	10uF	POLARIZED ELECTROLYTIC

Diodes

D1	1N4002
D2	1N4002
D3	1N4002
D4	3MM LED
D5	3MM LED
D6	3MM LED

LEDs: Square pad = Annode (+)
Round pad = Cathode (-)



Potentiometers

TONE	C10K
VOL	A100K
DRIVE	B100K
PRES	B25K

ICs

IC1	RC4558P
IC2	TC1044SCPA

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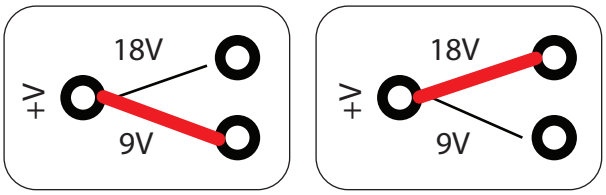
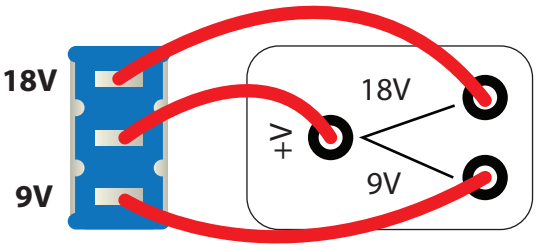
NOTES:
You **MUST** choose 9V **OR** 18V operation by installing one jumper in the appropriate location shown below:



9V **18V**

If you wish to select 9V or 18V operation via a toggle switch, this can be accomplished as shown below:



SPDT ON-ON

* Do not add jumpers if using a toggle switch.

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).

RESOURCES:

Parts Ordering:	Website:	Specialties:
Tayda Electronics	taydaelectronics.com	resistors, capacitors, diodes, sockets, LEDs, pots, knobs
Mouser	mouser.com	resistors, capacitors, IC's
Love My Switches	lovemyswitches.com	switches, knobs, enclosures, pre-wired LEDs

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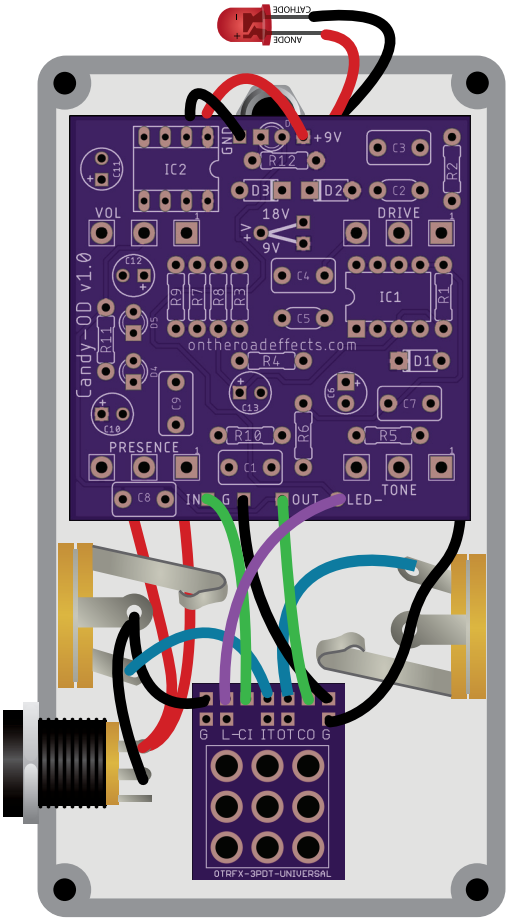
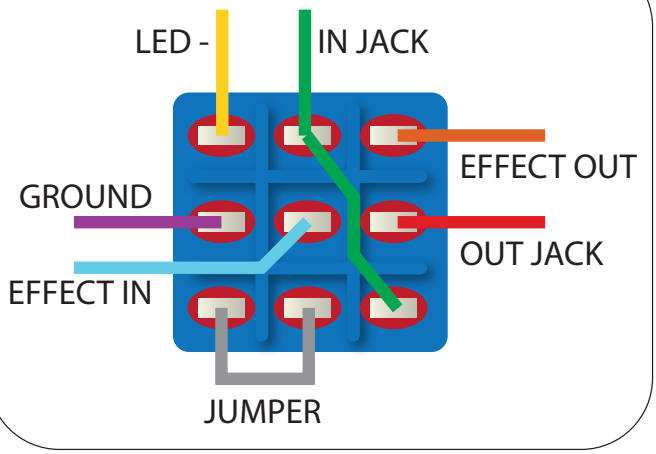


True Bypass Wiring



Pots/LED Drill Holes

1590B Enclosure