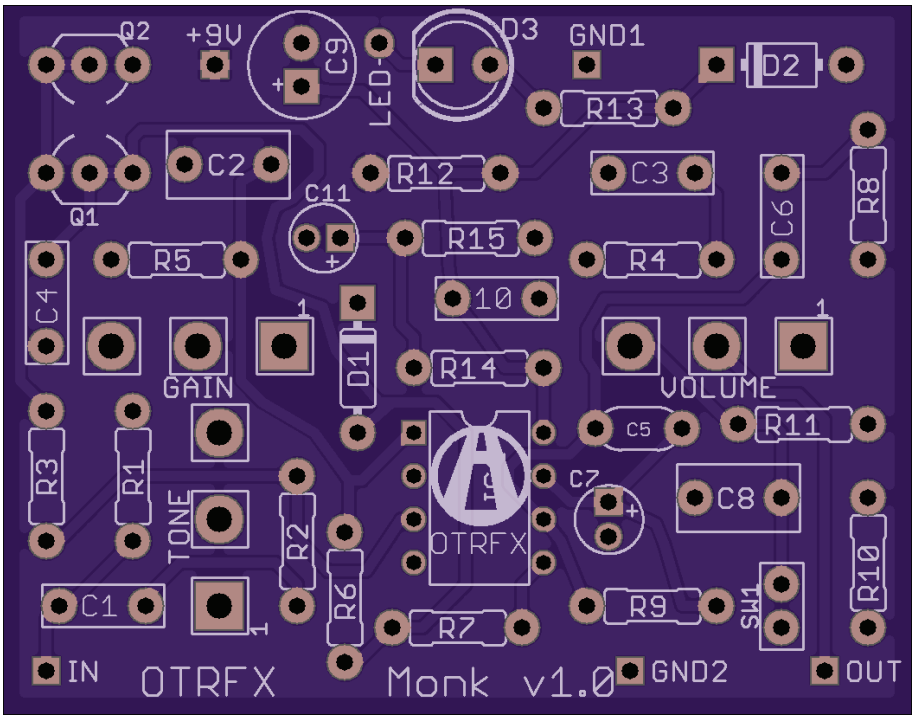
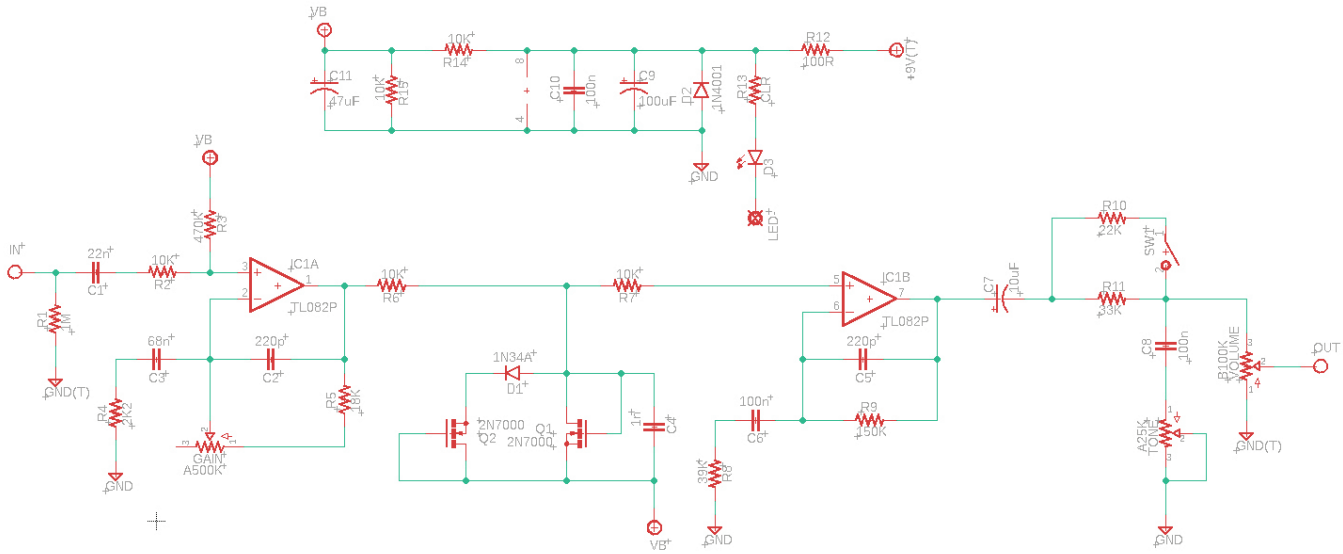
ON THE ROAD EFFECTS

MONK (v1.0) Build Guide





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The MONK circuit is based on the Fulltone OCD overdrive pedal, which is among the finest overdrive/distortion/boosts that exists. Features the classic controls: Volume, Tone and Gain, plus a High Peak / Low Peak switch, for great versatility with different pickup types. At the bottom is a chart outlining all the different versions you can build using this PCB. A summary of version descriptions is on the following page.

Resistors

R1	1M
R2	10K
R3	470K
R4	***SEE VERSIONS**
R5	18K
R6	10K
R7	10K
R8	39K
R9	150K
R10	22K
R11	33K
R12	100R
R13	CLR**
R14	10K
R15	10K

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

Pots

VOLUME	***SEE VERSIONS**
TONE	***SEE VERSIONS**
GAIN	***SEE VERSIONS**

Switches

SW1	SPST (On/On)

Capacitors

C1	22n
C2	220p
C3	***SEE VERSIONS**
C4	1n
C5	220p
C6	100n
C7	10uF
C8	***SEE VERSIONS**
C9	100uF
C10	100n
C11	47uF

Diodes

D1	1N34A or JUMPER***
D2	1N4001
D3	LED (Indicator LED)

***Jumper=connect with component lead.

ICs

IC1	TL082

Transistors

Q1	2N7000
Q2	2N7000

*VERSONS:	OCD V1	OCD V2	OCD V3	OCD V4	JHS MOD
R4	2K2	2K2	2K2	2K2	4K7
C3	68n	68n	68n	68n	100n
C8	100n	47n	47n	47n	47n
D1	JUMPER	JUMPER	JUMPER	1N34A	JUMPER
VOLUME POT	B100K	B500K	B500K	A500K	A500K
TONE POT	A25K	A25K	B10K	B10K	B10K
GAIN POT	A500K	A500K	A1M	A1M	A1M

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OCD VERSION DESCRIPTIONS:

VERSION 1:
a lot of low and high end, more balanced mids

VERSION 2:
less low end, increased mids, smoother high end

VERSION 3:
boosted midrange, extra sustain,
more control of the tone

VERSION 4:
less low end, more harmonics, wider range
of volume control

JHS MOD:
smoother, less harsh overdrive, some say thicker,
but let your ears be the judge

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.

NOTES:
This pedal operates at 9V, but may be run
at up to 18V for more headroom.

9V and G1 pads are placed where the pots sit,
so it's best to solder those wires before installing pots.
(they will be moved in future versions) ¯_(ツ)_/¯

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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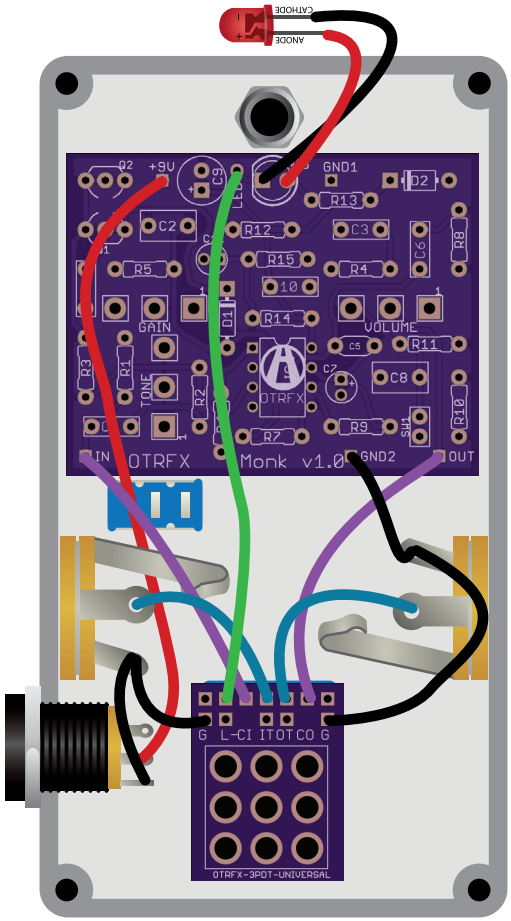
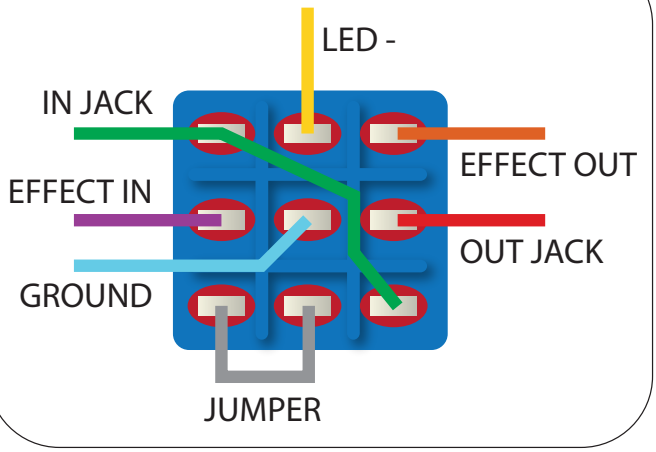
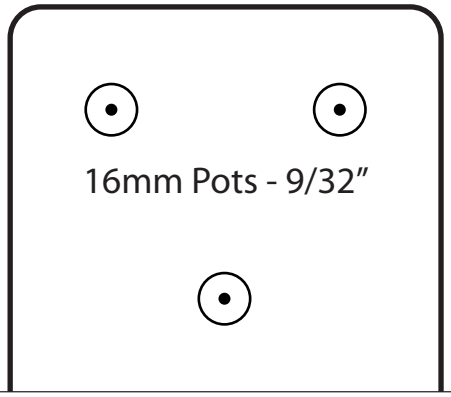


True Bypass Wiring



Pots Drill Holes

1590B Enclosure



Print at 100% and tape to enclosure for drilling