

Vulcan v1 - Overdrive

Circuit Design Joe Davisson

PCB Layout Mitchell Hudson

This is a great sounding overdrive. Joe Davisson contributed many innovative designs to the DIY community in the early days. Check out his [Analog Alchemy page](#).

Build it for yourself! Order a [PCB here](#). Follow the guide below. The boards make assembly easy by combining the pots and LED in the PCB.

Assemble all of the parts except for the LED and pots. Fit the LED and pots in the board without soldering then assemble the pots in the enclosure and hand tighten the washers and nuts into the pots. Flip and fit the LED through the hole in the enclosure. Now solder the pots and LED.

Last, follow the wiring diagram.

Note: When drilling the enclosure it's easiest to fit the DC jack near the switch as shown. You can it along the top if you make sure it misses the PCB.

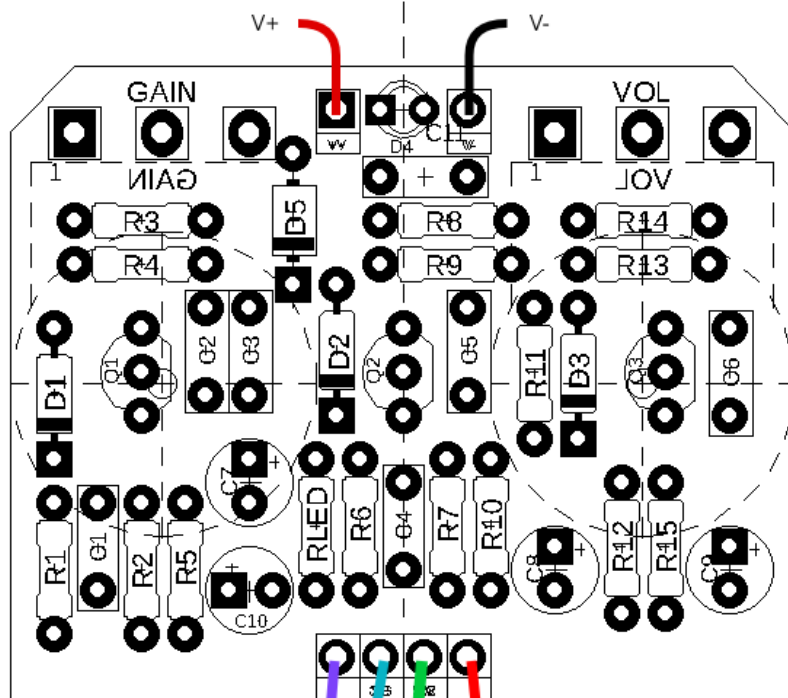
C1 100n
 C2 100n
 C3 100n
 C4 2n2
 C5 100n
 C6 100n
 C7 22μ
 C8 22μ
 C9 22μ
 C10 100μ
 C11 47n

 D1 1N914
 D2 1N914
 D3 1N914
 D4 LED
 D5 1n5817

Q1 2N5089
 Q2 2N5089
 Q3 2N5089

GAIN A1M 16MM
 VOL A100K 16MM

R1 1M
 R2 1M
 R3 4M7
 R4 10K
 R5 1K
 R6 470K
 R7 1M
 R8 4M7
 R9 10K
 R10 1K
 R11 470K
 R12 1M
 R13 4M7
 R14 10K
 R15 1K
 RLED 1k



Input jack Sleeve

Input jack Tip

Output jack

