

## DOD 280A Optical Compressor Clone Project

Version 2005June16

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**Notes:** Nice little compressor. The diagrams included show some mods by Konrad Aschenbach for using a NSL-32 instead of the VTL5C2 and some other minor mods for better sound. If you decide to include R16, cut the trace joining its pads. The Bill of Materials is for the 280A version with no mods.

### Bill of Materials

#### Resistors (1/4 watt rating)

1 – 4k7  
1 – 10k  
3 – 22k  
2 – 100k  
2 – 220k  
1 – 470k  
1 – 3M

#### Pots (1/4 watt or higher rating)

1 - 100k log (Volume)  
1 – 500k linear (Compress)

#### ICs

1 – TL022 or similar dual opamp

#### Transistors

2 – 2N4134 or other NPN.

#### Capacitors (minimum 16 volt rating)

3 – 0.047uF film  
1 – 0.01uF film

2 – 10uF aluminum electrolytic

2 – 47uF aluminum electrolytic

#### Other

1 - VTL5C2

1 – 3PDT or DPDT heavy duty foot switch (bypass)

1 – LED & limiting resistor (optional, for indicator)

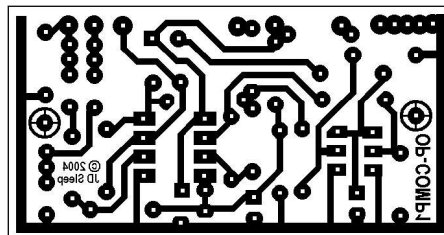
1 – mono quarter inch jack

1 – stereo quarter inch jack

9v battery snaps & holder and/or DC jack, knobs, Copper-clad board, etchant, or perfboard

24 gauge stranded wire

Enclosure



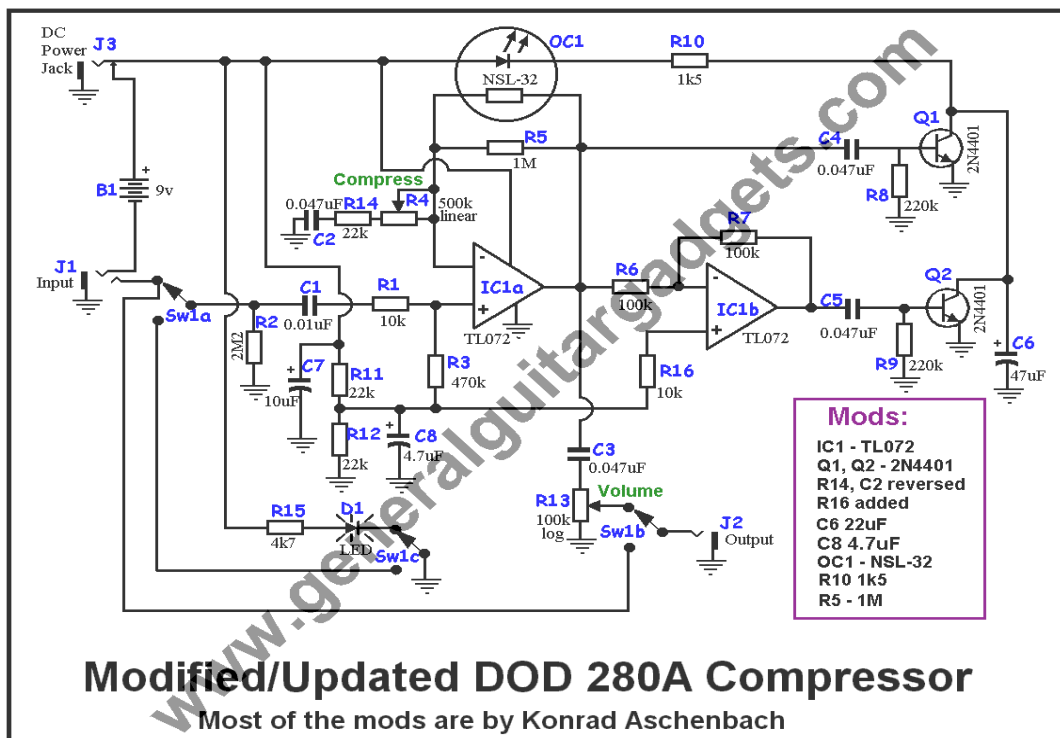
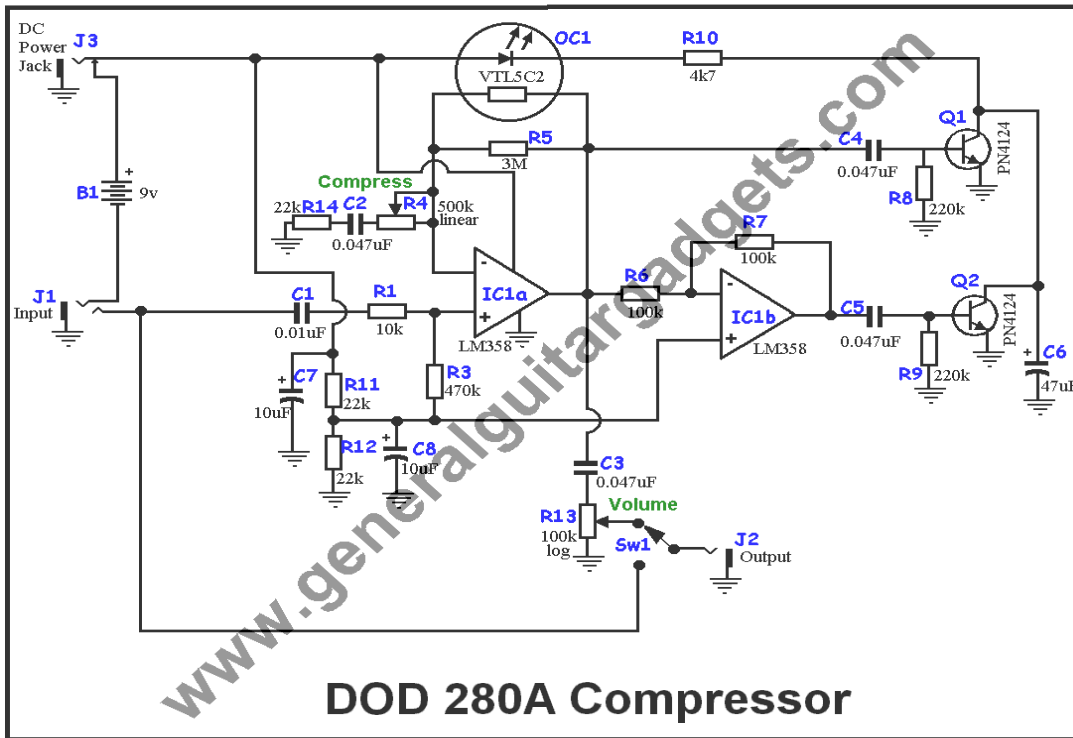
Size 4.9cm x 3.0cm

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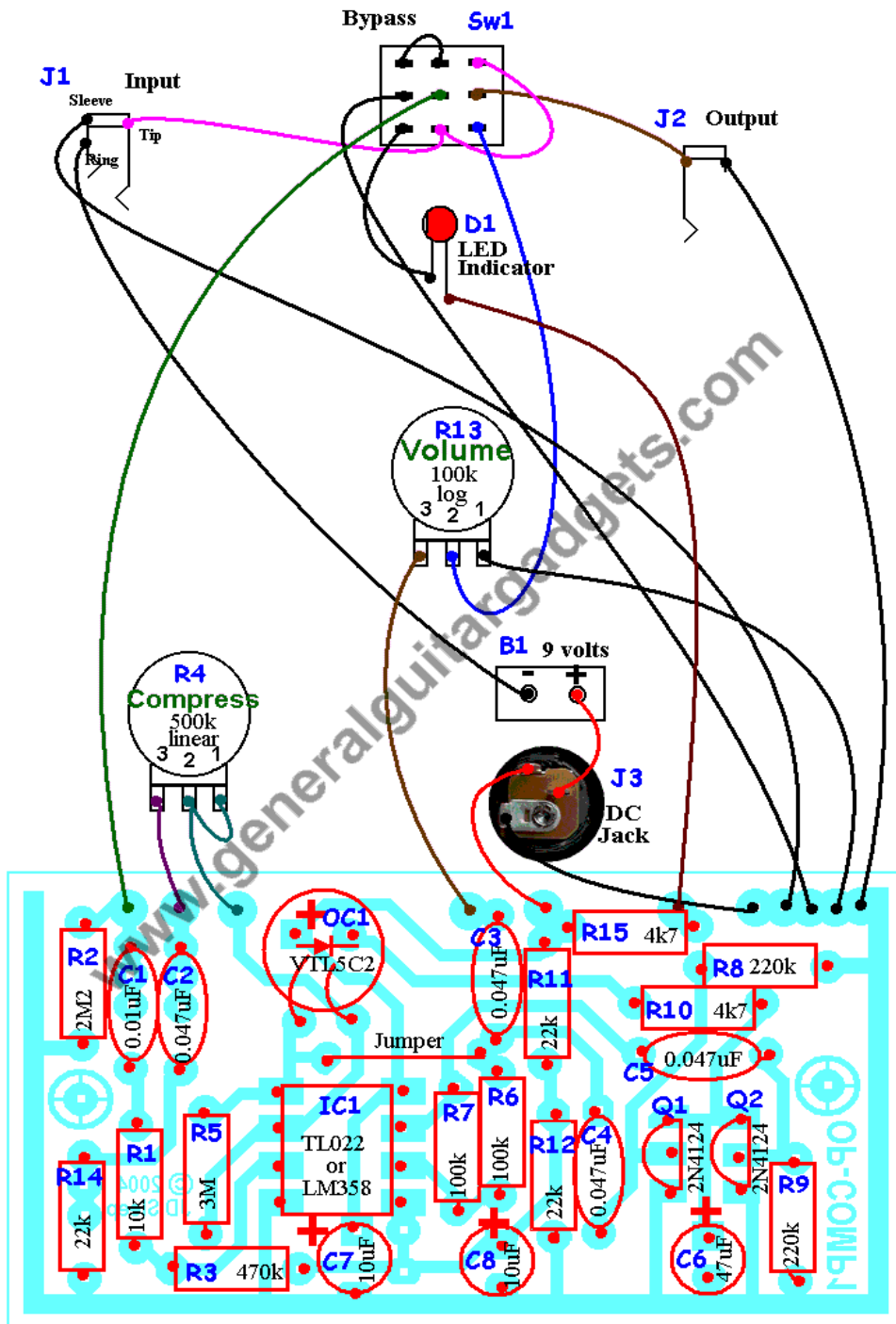


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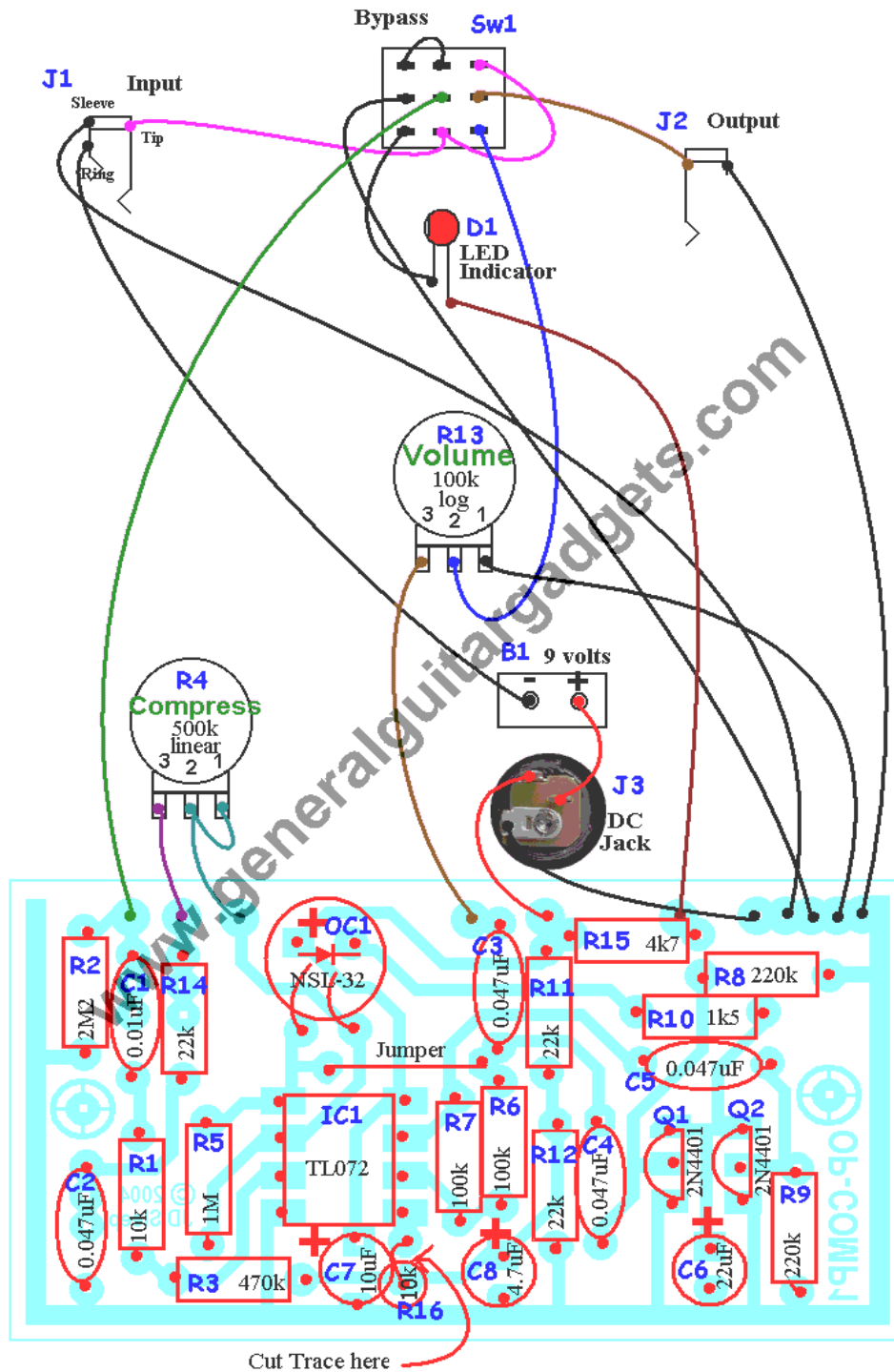
Stock DOD 280A

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DOD 280A With Modifications