# ADJUCT OVERDRIVE

#### DESCRIPTION

The ADJUCT OVERDRIVE is yet another derivative (but a great sounding one) of the classic Tube Screamer and is based on the Hudson Electronics Sidecar. The first half of the circuit is close to the Tube Screamer, but with a PNP germanium transistor being used as a clipping diode along side a 1N4148 and a red LED. The second half is a Baxendall two-band tone stack with +/- 15dB to the high and low bands. Combined with a hi-fi dual op-amp, the result is a great sounding overdrive with great tone shaping capabilities.

#### SCHEMATIC



### BOM

#### Resistors

R1	1M
R2	1k
R3	510k
R4	10k
R5	10k
R6	1k
R7	10k
R8	560Ω
R9	3.3k
R10	220k
R11	560Ω
R12	220k
R13	3.3k
R14	10k
R15	10k
CLR	4.7k

#### Capacitors

C1	47n
C2	680n
C3	68p
C4	470n
C5	150n
C6	22n
C7	68n
C8	100µ

### SHOPPING LIST

С9	22n
C10	68p
C11	2.2μ
C12	100µ
C13	100μ

#### Semiconductors

D1	1N4148	
D2	3mm red LED (diffused)	
D3	1N5817	
IC1	LM4562	
Q1	BC549C	
Q2	PNP germanium	
LED	3 or 5mm LED	

# Electromechanical

Bass	B25k	
Drive	A1M	
Level	A10k	
Treble	B5k	

# Notes

Other dual op-amps will work fine in this circuit (TL072, 4558, etc). Q1 is just an input buffer, so plenty of other BJTs can be used (2N3904, 2N5088, MPSA18, etc).

Value	Type (suggested)	Quantity
560Ω	¼ watt metal or carbon film	2
1k	¼ watt metal or carbon film	2
3.3k	¼ watt metal or carbon film	2
4.7k	¼ watt metal or carbon film	1
10k	¼ watt metal or carbon film	5
220k	¼ watt metal or carbon film	2
510k	¼ watt metal or carbon film	1
1M	¼ watt metal or carbon film	1
68p	Ceramic	2
22n	Film	2
47n	Film	1
68n	Film	1
150n	Film	1

470n	Film	1
680n	Film	1
2.2μ	Electrolytic (25v+)	1
100μ	Electrolytic (25v+)	3
1N4148	Silicon switching diode	1
1N5817	Schottky rectifier diode	1
3mm red LED	Diffused	1
BC549C	BJT	1
LM4532	Dual op-amp	1
Germanium transistor	PNP Germanium	1
LED	3 or 5mm	1
A10k	16 mm right angle PC mount	1
A1M	16 mm right angle PC mount	1
B5k	16 mm right angle PC mount	1
B25k	16 mm right angle PC mount	1

# LAYOUT



Note—the silkscreen has the transistors pins of Q1 reversed (it's corrected in the image above).

# **DRILL TEMPLATE** (125B)







EFFECTS LAYOUTS © 2021 For DIY and small commercial applications. Not for non-peer to peer resale.