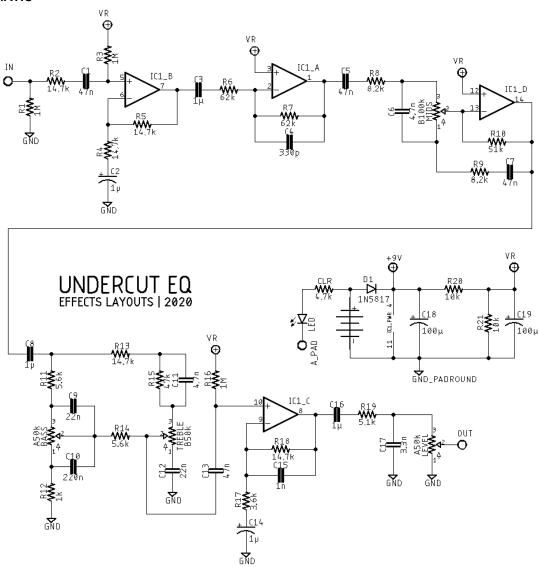


DESCRIPTION

The UNDERCUT is handy 3-band EQ with minimal gain/volume (unity is with the level pot just about maxed) and is what the kids these days are calling an underdrive. It helps to clean up an overly dirty amp or drive/distortion/fuzz pedal. It gives you the option to quickly reduce your signal's gain with the click of a footswitch instead of having to bend over and tweak a knob, and the 3-band EQ offers a wide range of control. Based on the Mad Professor Evolution Orange Underdrive.

SCHEMATIC



BOM

Resistors

1M
14.7k
1M
14.7k
14.7k
62k
62k
8.2k
8.2k
51k
5.6k
1k
14.7k
5.6k
47k
1M
3.6k
14.7k
5.1k
10k
10k
4.7k

Capacitors

C1	47n
C2	1μ
C3	1μ
C4	330p
C5	47n
C6	4.7n
C7	47n
C8	1μ

C9	22n
C10	220n
C11	4.7n
C12	22n
C13	47n
C14	1μ
C15	1n
C16	1μ
C17	3.3n
C18	100μ
C19	100μ

Semiconductors

D1	1N5817
IC1	TL074
LED	3 or 5mm

Electromechanical

Bass	A50k
Level	A50k
Mid	B100k
Treble	B50k

Notes

There are some resistor values in this circuit you may not have on hand. The circuit seems pretty flexible and you can use other values that are relatively close to what's prescribed (3.3k for 3.6k, 15k for 14.7k, 47k for 51k, 56k for 62k). Stacking resistors to create parallel resistance is also an option.

SHOPPING LIST

Part	Type (suggested)	Quantity
1k	1/4 watt metal or carbon film	1
3.6k	1/4 watt metal or carbon film	1
4.7k	1/4 watt metal or carbon film	1
5.1k	1/4 watt metal or carbon film	1
5.6k	1/4 watt metal or carbon film	2
8.2k	1/4 watt metal or carbon film	2
10k	¼ watt metal or carbon film	2

¼ watt metal or carbon film	5
	~
¼ watt metal or carbon film	1
¼ watt metal or carbon film	1
¼ watt metal or carbon film	2
¼ watt metal or carbon film	3
Ceramic	1
Film	1
Film	1
Film	2
Film	2
Film	4
Film	1
Film	3
Electrolytic	2
Electrolytic (35+)	2
Schottky Rectifier diode	1
3 or 5mm	1
Quad opamp	1
16mm right angle PC mount	2
16mm right angle PC mount	1
16mm right angle PC mount	1
	¼ watt metal or carbon film ¼ watt metal or carbon film ¼ watt metal or carbon film Ceramic Film Film Film Film Film Film Film Electrolytic Electrolytic Electrolytic (35+) Schottky Rectifier diode 3 or 5mm Quad opamp 16mm right angle PC mount 16mm right angle PC mount

LAYOUT

