

BOM

Resistors

| | |
|-----|------|
| R1 | 1M |
| R2 | 2.2M |
| R3 | 10k |
| R4 | 10k |
| R5 | 2.2M |
| R6 | 10k |
| R7 | 10k |
| R8 | 1M |
| R9 | 1M |
| R10 | 10k |
| R11 | 1M |
| R12 | 220k |
| R13 | 220k |
| R14 | 220k |
| R15 | 220k |
| R16 | 2.2k |
| R17 | 2.2k |
| R18 | 1k |
| R19 | 1k |
| R20 | 100Ω |

Capacitors

| | |
|----|------|
| C1 | 100n |
| C2 | 22n |
| C3 | 3.3n |
| C4 | 33n |
| C5 | 100n |
| C6 | 22n |
| C7 | 1μ |
| C8 | 10μ |

| | |
|-----|------|
| C9 | 10n |
| C10 | 10μ |
| C11 | 100μ |
| C12 | 100μ |

Semiconductors

| | |
|------|------------|
| D1 | 1N5817 |
| IC1 | RC4558 |
| LED1 | 3mm or 5mm |
| LED2 | 3mm or 5mm |
| Q1 | 2N5088 |
| Q2 | 2N5088 |
| Q3 | 2N5088 |

Electromechanical

| | |
|----------|------------|
| Depth | B1k |
| LDR1 | KE-10720 |
| LDR2 | KE-10720 |
| Rate | C100k |
| Response | SPDT on/on |
| Wave | B500k |

Notes

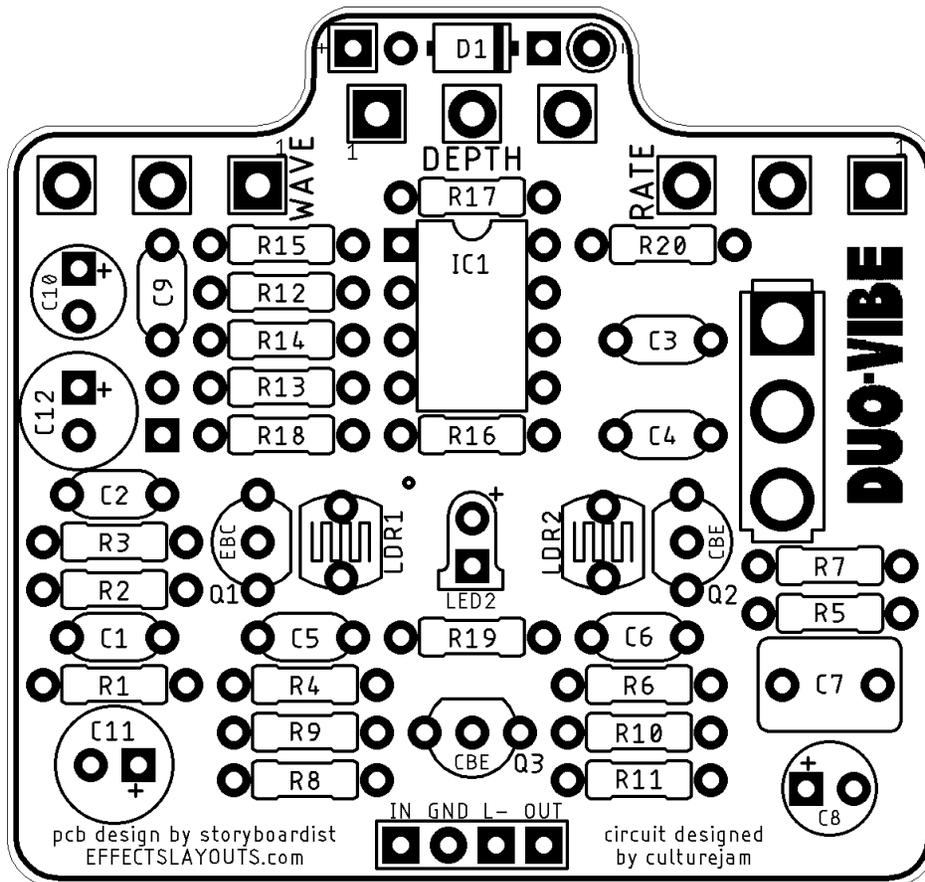
Subs for Q1-3 include 2N5089, MPSA18, etc.
LEDs should be two of the same type. Red or yellow should work well. The LEDs are grounded when the pedal is engaged, so in testing make sure the L- pad is grounded.

SHOPPING LIST

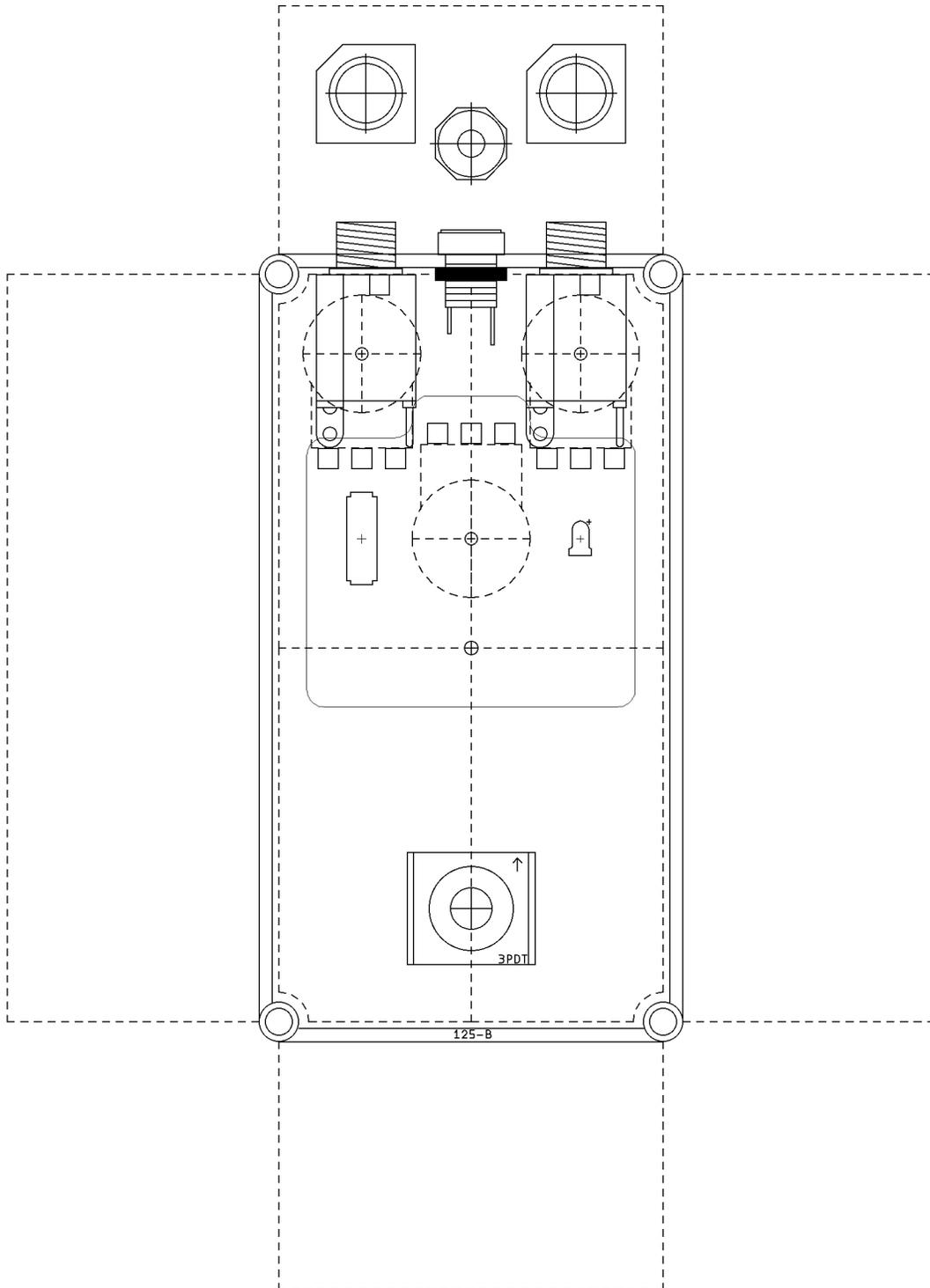
| Value | Type (suggested) | Quantity |
|-------|-----------------------------|----------|
| 100Ω | ¼ watt metal or carbon film | 1 |
| 1k | ¼ watt metal or carbon film | 2 |
| 2.2k | ¼ watt metal or carbon film | 2 |
| 10k | ¼ watt metal or carbon film | 5 |
| 220k | ¼ watt metal or carbon film | 4 |
| 1M | ¼ watt metal or carbon film | 4 |
| 2.2M | ¼ watt metal or carbon film | 2 |
| 3.3n | Film | 1 |
| 10n | Film | 1 |

| | | |
|--------|---------------------------|---|
| 22n | Film | 2 |
| 33n | Film | 1 |
| 100n | Film | 2 |
| 1μ | Film | 1 |
| 10μ | Electrolytic (25v+) | 2 |
| 100μ | Electrolytic (25v+) | 2 |
| 1N5817 | Schottky rectifier diode | 1 |
| 2N5088 | BJT | 3 |
| LED | 3 or 5mm | 2 |
| RC4558 | Dual op amp | 1 |
| LDR | KE-10720 | 2 |
| B1k | 16mm right angle PC mount | 1 |
| B500k | 16mm right angle PC mount | 1 |
| C100k | 16mm right angle PC mount | 1 |
| SPDT | On/on toggle | 1 |

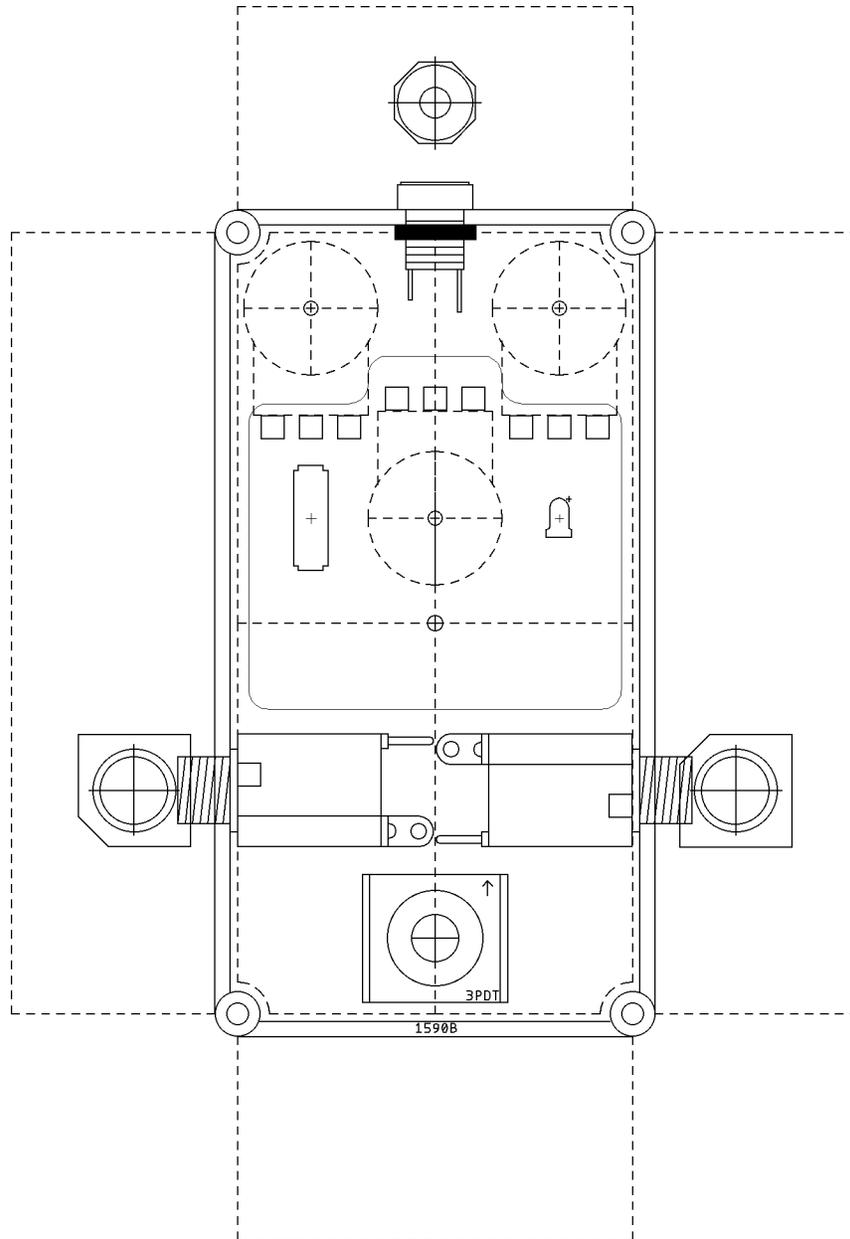
LAYOUT



DRILL TEMPLATE (125B)



DRILL TEMPLATE (1590B)



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