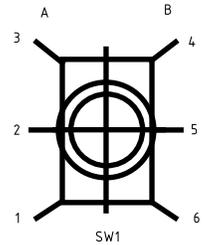
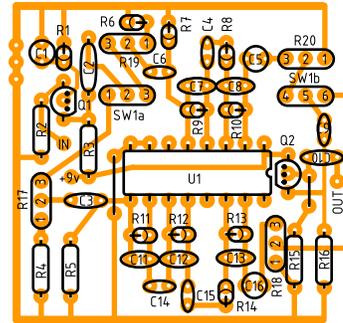
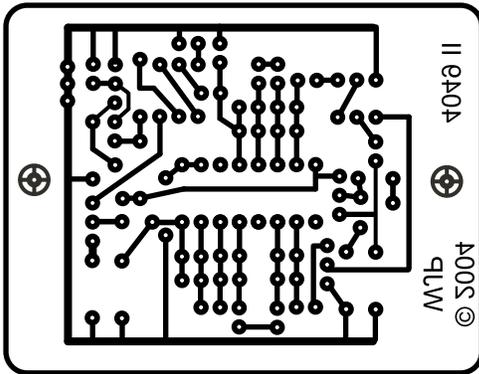


double d

This Layout will allow you to build runoffgroove's Double D. See www.runoffgroove.com for build details and possible modifications. The 0.22 μ F caps in this layout should be Monolithic Ceramic. This will allow them to fit in the layout. "Greenie" film caps in this value are HUGE, but if you can jam them in, they will work. Sw1 is labeled with the numbers 1 - 6. It is important that you wire this up properly for proper operation. A 9v wallwart or other power supply should be used for this project to keep oscillation at a minimum. Parts list is below. The numbers next to the caps are the codes on the caps themselves. E stands for Electrolytic.



Resistors
 R1 – 470
 R2 – 1M
 R3 – 10k
 R4 – 10k
 R5 – 1M
 R6 – 10k
 R7 – 2.2M
 R8 – 470k
 R9 – 120k
 R10 – 1M
 R11 – 470k
 R12 – 220k
 R13 – 1M
 R14 – 470k
 R15 – 10k
 R16 – 1M

Capacitors
 C1 – 10 μ F
 C2 – 0.047 μ F
 C3 – 0.047 μ F
 C4 – 0.1 μ F
 C5 – 4.7 μ F
 C6 – 0.022 μ F
 C7 – 100pF
 C8 - 47pF
 C9 – 0.22 μ F
 C10 – 0.22 μ F
 C11 – 470pF
 C12 – 220pF
 C13 – 47pF
 C14 – 0.22 μ F
 C15 – 0.22 μ F
 C16 – 4.7 μ F
 E
 473
 473
 104
 E
 223
 101
 47
 224
 224
 471
 221
 47
 224
 224
 E

Transistors
 Q1 – J201 FET
 Q2 – J201 FET

IC's
 U1 – CD4049

Switches
 SW1 – DPDT stomp or
 Toggle Switch

Potentiometers
 R17 – 100kA Pot II Gain
 R18 - 100kA Pot II Level
 R19 – 100kA Pot I Gain
 R20 – 100kA Pot I Level