

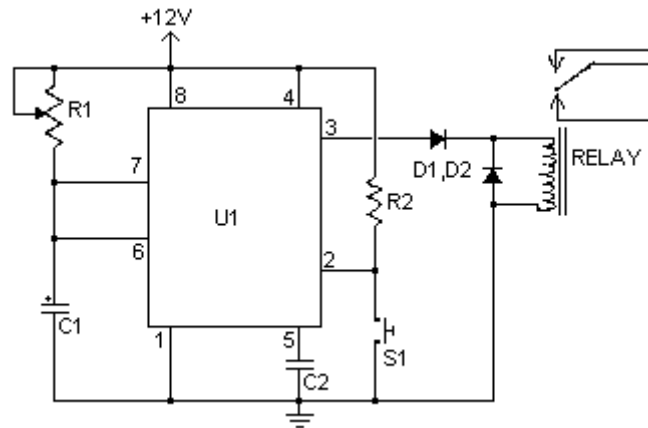
# Time Delay Relay

source: <http://www.aaroncake.net/>

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A time delay relay is a relay that stays on for a certain amount of time once activated. This time delay relay is made up of a simple adjustable timer circuit which controls the actual relay. The time is adjustable from 0 to about 20 seconds with the parts specified. The current capacity of the circuit is only limited by what kind of relay you decide to use.

## Schematic



Parts:

- C1 \_\_\_\_\_ 10uf 16V Electrolytic Capacitor
- C2 \_\_\_\_\_ 0.01uf Ceramic Disc Capacitor
- R1 \_\_\_\_\_ 1 Meg Pot
- R2 \_\_\_\_\_ 10 K 1/4 Watt Resistor

D1,D2\_\_\_\_\_1N914 Diodes  
U1\_\_\_\_\_555 Timer IC  
RELAY\_\_\_\_\_9V Relay  
S1\_\_\_\_\_Normally Open Push Button Switch  
MISC\_\_\_\_\_Board, Wire, Socket For U1

**Notes:**

1. R1 adjusts the on time.
2. You can use a different capacitor for C1 to change the maximum on time.
3. S1 is used to activate the timing cycle. S1 can be replaced by a NPN transistor so that the circuit may be triggered by a computer, other circuit, etc.