

LOTS Switcher Article Written July 29-2022

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This document is how to wire a timer and a relay to operate an item for a specific amount of time from 1 second to up to 1 hour.

You will need the following items as diagramed on page 2.

12 volt power supply (Transformer)

Power supply to operate the Operating item either AC or DC+

12 Volt DC Timer

12 Volt 2 circuit or 4 circuit relay (I used a 4 Circuit in this document)

14 pin relay base for relay (Optional as you can solder the wires Directly to the pins on the Relay. It is just easier to use.

Note All bases are not wired the same therefore the diagram Used may be slightly different

8 pin (Circuit) terminal bar

Operating Item either AC or DC

Push Button either lighted or unlighted with second contacts for the light

If not a lighted button ignore the Red and Black wire from the button to the 8 pin (Circuit) terminal bar.

Operation

Push the PUSH BUTTON and the timer will be activated.

The RELAY will kick in

The TIMER will operate for the designated time you set it for.

The OPERATING ITEM will run for this amount of time

If the Push Button is LIGHTED the light will go out for the length of time set.

After the timer expires the

Relay will go back to Rest

The item will quit working

The button light will light up again.

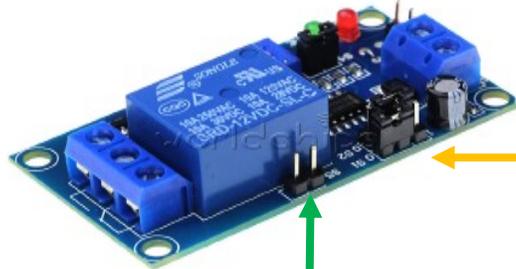
Note * I have this time in use in over 100 applications here in Cincinnati. There are many other timers and anyone that you use should work the same way. I am just documenting what I have used with great success.**



manufactured by **WORLD CHIPS**
 Based in China
 worldchips has been an eBay member since Dec 11, 2011

Ebay Link as of 18-02-18

<https://www.ebay.com/itm/DC-12V-Delay-Timing-Timer-Relay-Turn-ON-Turn-OFF-Switch-Module-Time-10A/332506888918?hash=item4d6af47ad6:g:ngsAAOSw4PxaTDka>



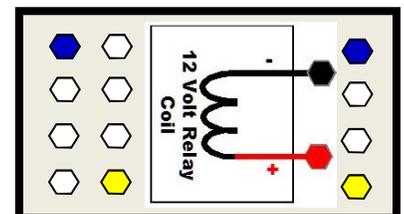
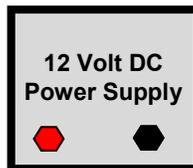
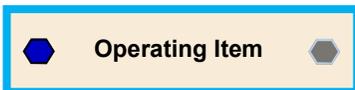
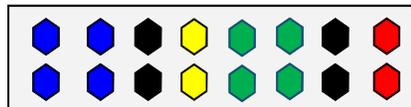
S5 Jumper shown removed.

Below are diagrams used in this file along with the colors for the circuits.

Circuit Color Codes

- 12 Volt DC Positive for Timer, Relay and LED Button Light**
- 12 Volt DC Negative for Time, Relay and LED Button Light**
- 12 Volt DC Positive for LED Button light**
- 12 Volt DC Negative for LED Button light**
- Push Button Leads to Activate timer**
- Hot or Positive Power to operate the item that you want to run on a**

8 Pin Terminal Strip



12 Volt DC Power supplies both the timer and the item timed to work with an internal connection.

S1   **1 Second to 15 Seconds**
S2  

S1   **1 Second to 60 Seconds**
S2  

S1   **1 Minute to 8 Minutes**
S2  

S1   **6 Minutes to 60 Minutes**
S2  

S5—leave attached to run the relay From the timer power 12 V DC

S1 = Switch 1

S2 = Switch 2

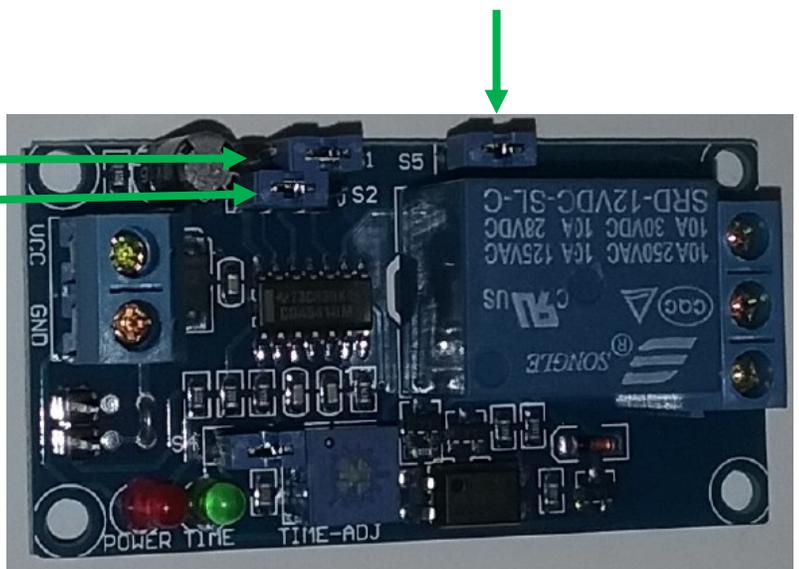
Notes

NC = Normally Closed

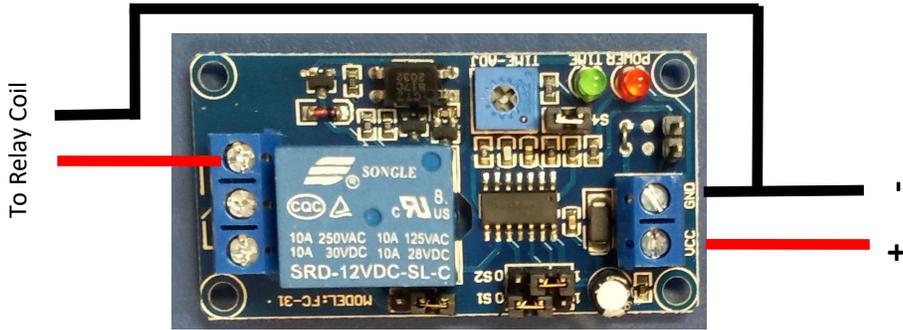
NO = Normally Open

+ = Positive DC

- = Negative DC

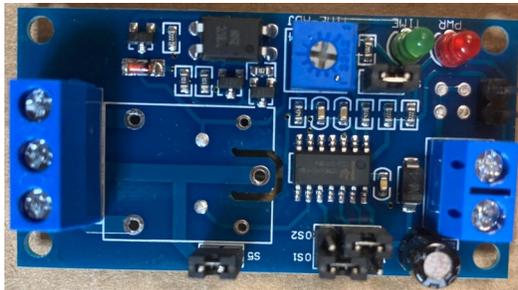


Timer Wiring Choices



This is the original Timer purchased as of today and it looks the same.

This timer is wired to activate a 12 Volt DC Relay by activating the timer's attached relay. The timer/relay is a one circuit relay as purchased and can use the same power source to use the



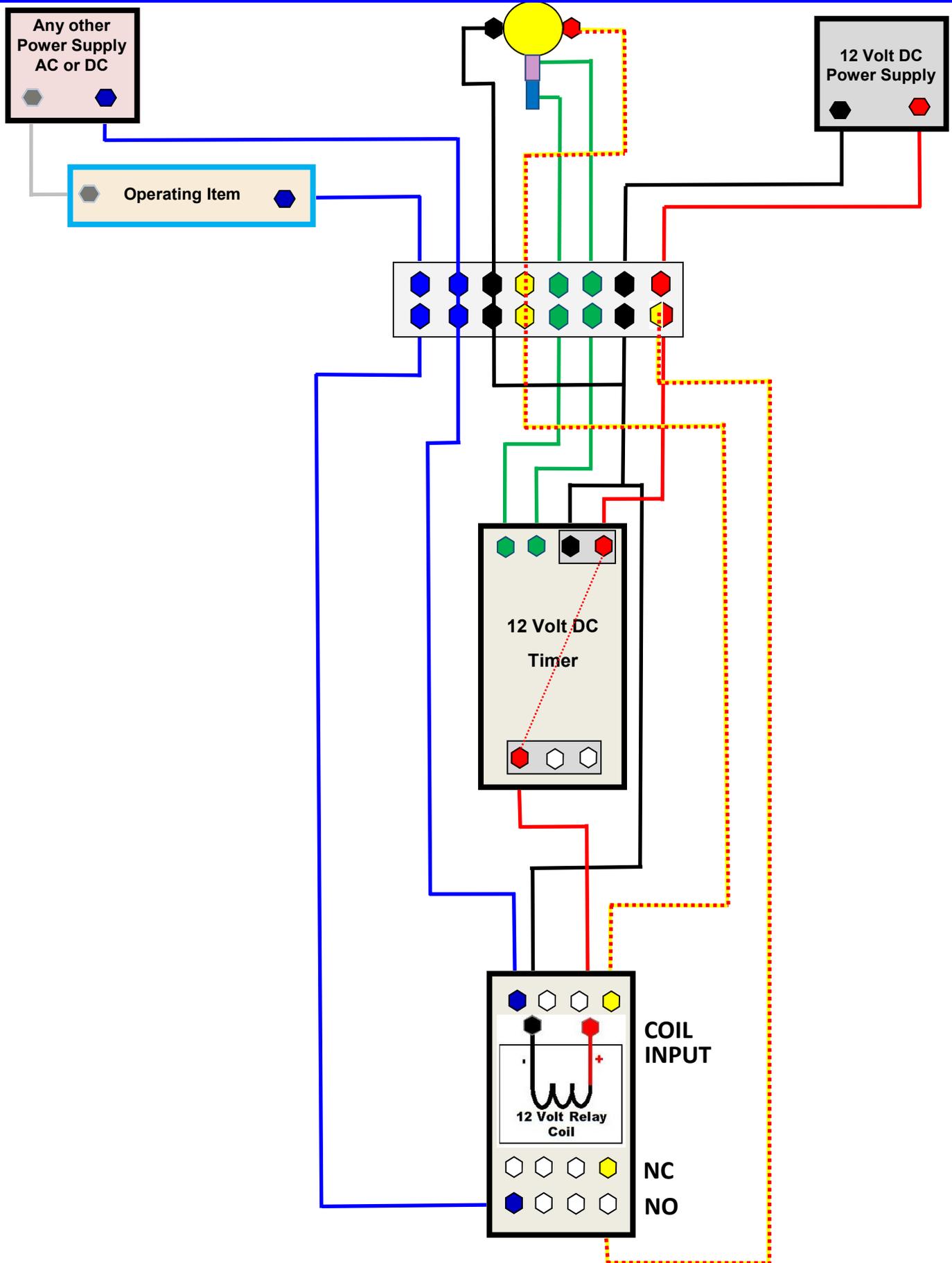
This timer is shown with the Relay removed. I have used these timers after removing the relays mostly because some of the attached relays have failed. The timers seem to work



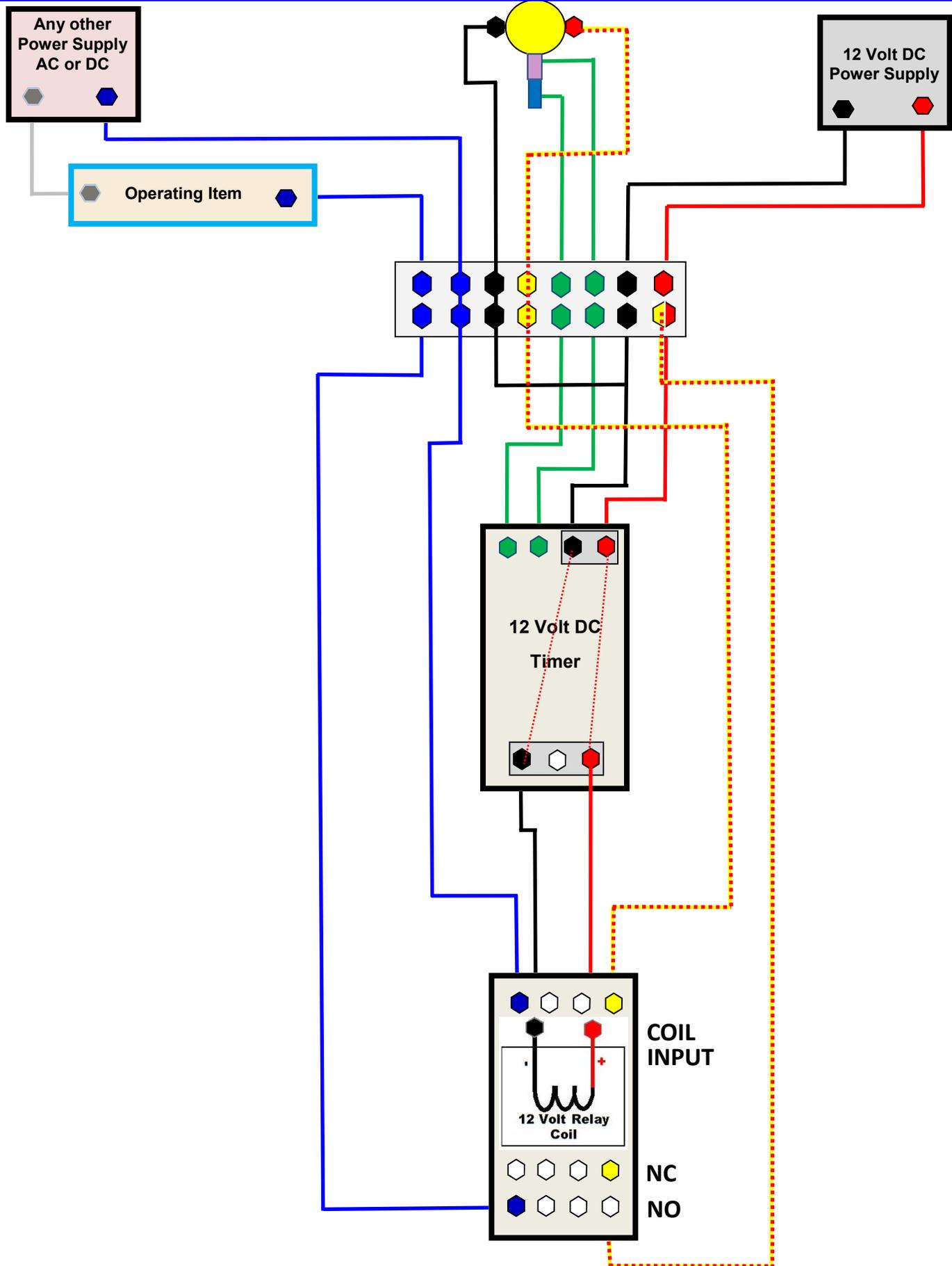
This timer is shown with two diodes replacing the relay.

After I removed the attached relay I then soldered in two diodes across the solder points of the relay. This allows me to wire directly through the timer to activate another relay.

12 V Timer Wiring w/Factory Timer



12 V Timer Wiring w/Revised Timer



All - Timer - 12 Volt Timer - LOTS Article.pub

