12 Volt Timer with 4 Circuit Relay

Timer

Purchased at Amazon

Can be set to run from 1 second to up to 1 hour (60 Minutes)

Optimum operation is 12 Volts DC

See Info—All Timer—World Chip file

RELAY

At rest with no activation

If activation button light is used the button light is lit

Timer activation is run through as activated

(Circuit completed and activation of timer started when button is pushed)

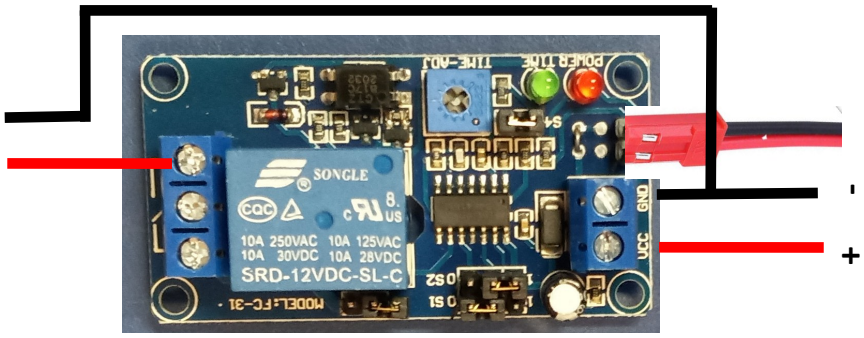
(Activation is disabled when button is pushed and until the timer turns off)

First Item to be operated will run when the timer is activated

Second Item to be operated will run when the timer is activated

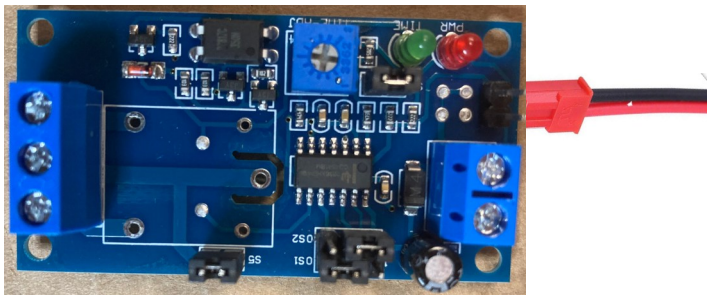
Activation Plug - JST 2 Pin Male Female Connector

Timer Wiring Choices



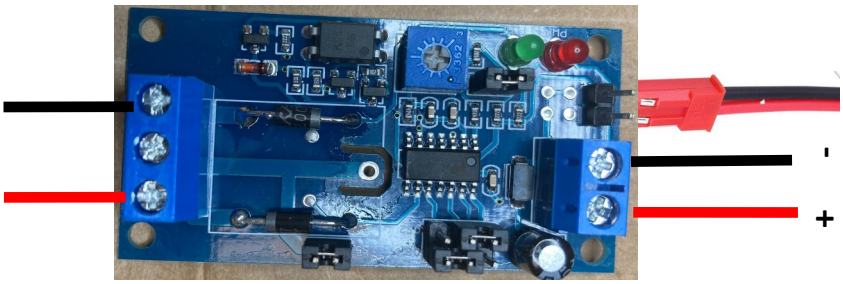
This is the original Timer purchased as of today and it looks the same.

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 telay 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.

Activation Plug - JST 2 Pin Male Female Connector

Chart to set the Timer's Length of Time

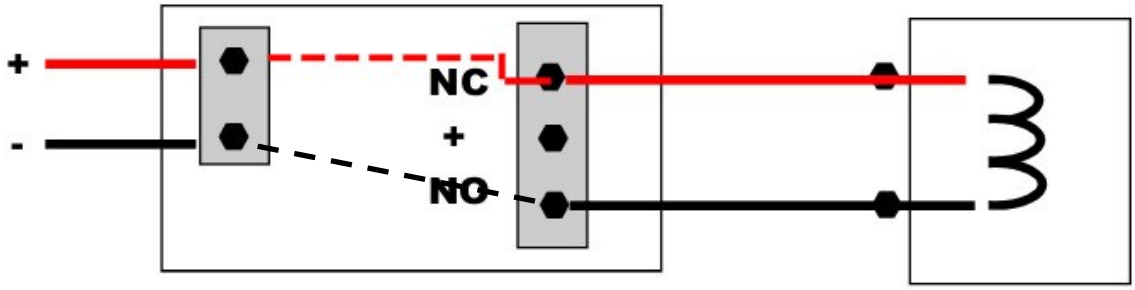
12 Volt DC Power supplies both the timer and the item timed to work with an internal connection.

S1 S2 — 1 Second to 15 Seconds

S1 S2 — 1 Second to 60 Seconds

S1 S2 — 1 Minute to 8 Minutes

S1 S2 — 6 Minutes to 60 Minutes



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

S1 = Switch 1
S2 = Switch 2
NC = Normally Closed
NO = Normally Open
+ = Positive DC
- = Negative DC

Activation Wire Pin +
Activation Wire Pin -

Activation Plug - JST 2 Pin Female Connector

PDF-12 Volt Timer diagram

Activation Plug - JST 2 Pin Male Female

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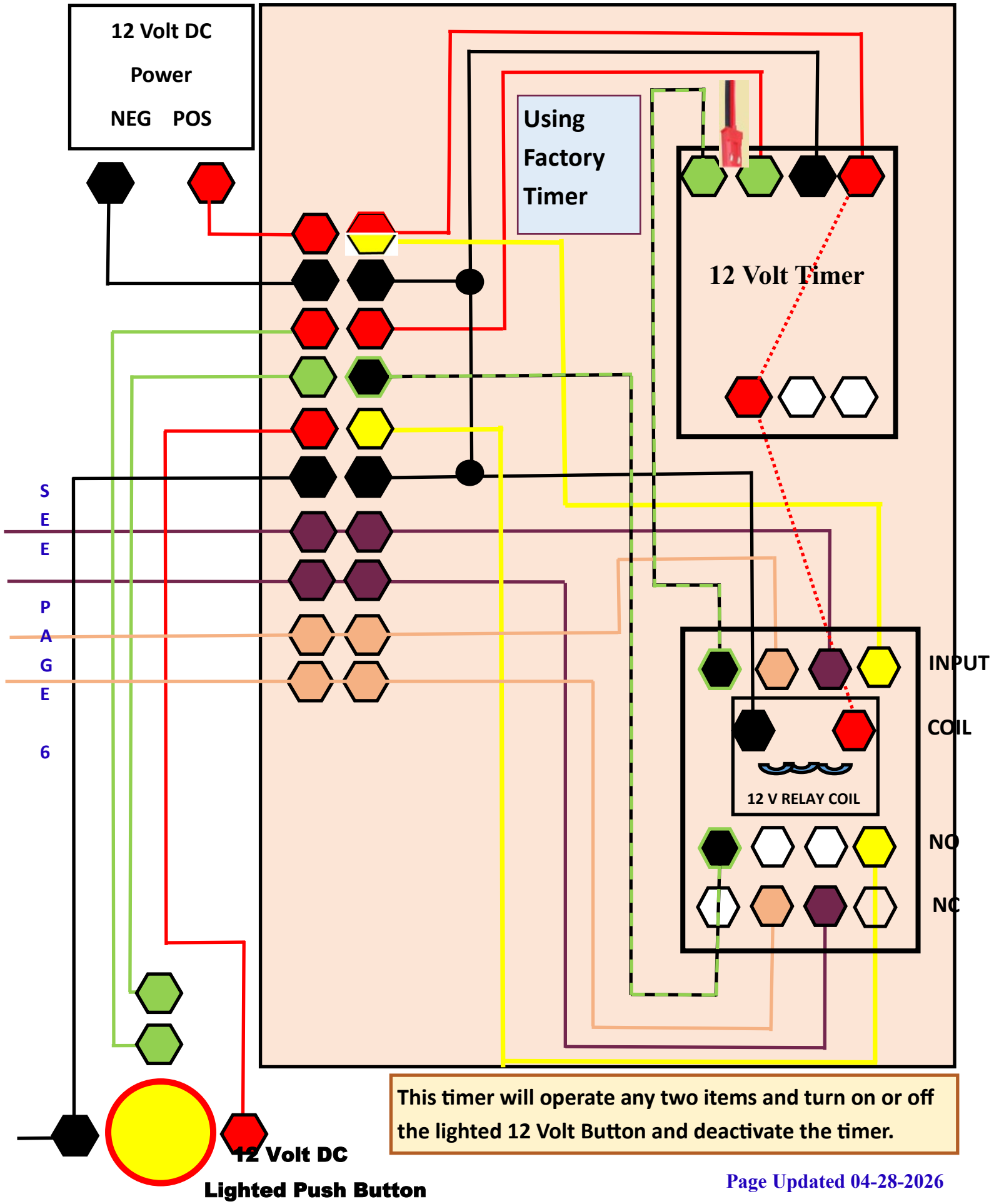
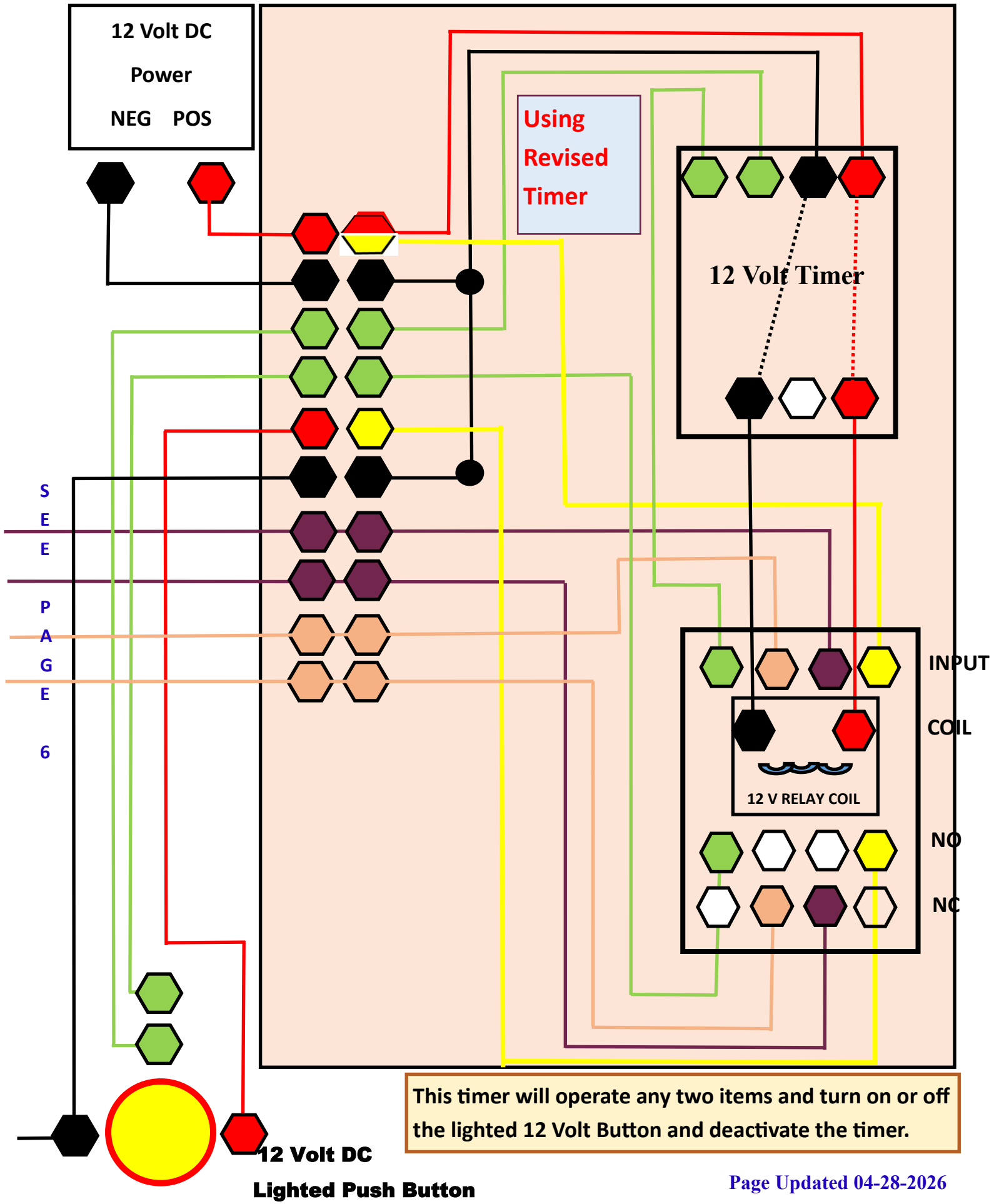


This timer will operate any two items and turn on or off the lighted 12 Volt Button and deactivate the timer.



This timer will operate any two items and turn on or off the lighted 12 Volt Button and deactivate the timer.

Two Operating Items wired to 4 Circuit Relay

Below shows the wiring to hook up to the preceding page two operating accessories to the four circuit relay. They can be wired to either turn on or off individually or together.

You can also use a DC and an AC powered items to operate at the same time. Or different voltages of the same type of power AC or DC.

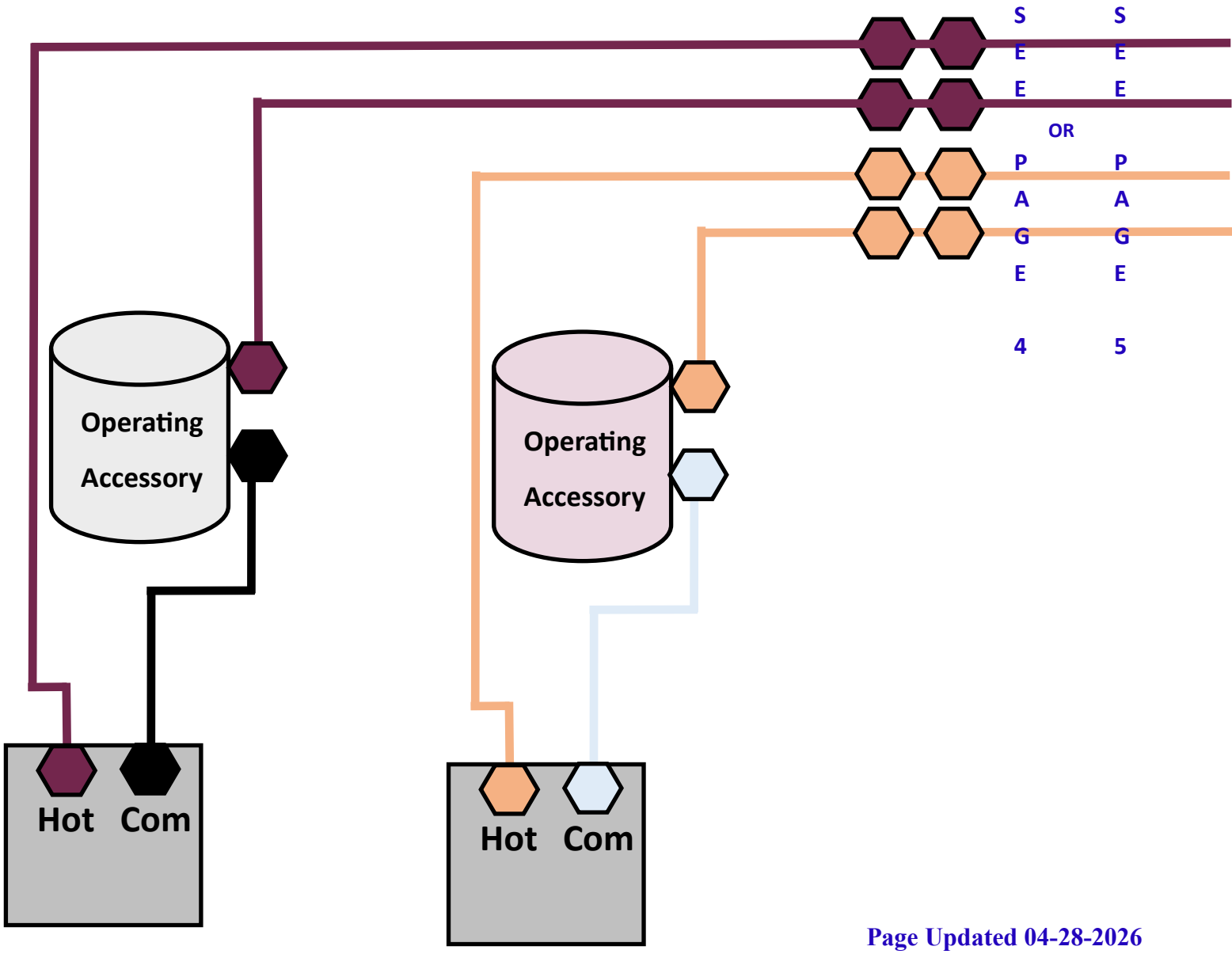
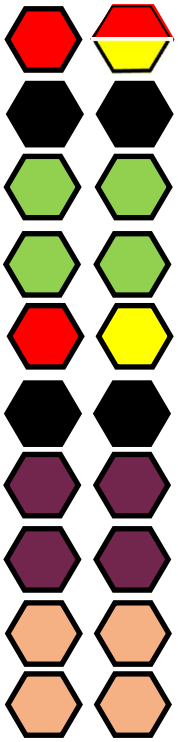


Chart to set the Timer's Length of Time

Activation Plug - JST 2 Pin Male Female Connector

Terminal Strip Input wiring to make the relay work



12 Volt DC Positive for Timer, Relay and LED Button Light

12 Volt DC Negative for Timer, Relay and LED Button Light

Push Button Leads to start the timer

Push Button Leads to start the timer

12 Volt DC Positive to operate the LED Button Light

12 Volt DC Negative to operate the LED Button Light

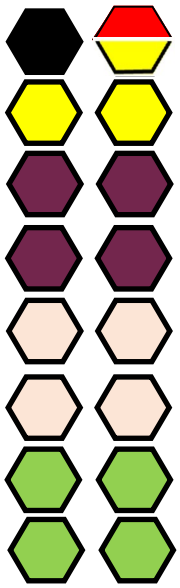
Input for first item to operate

Output to the first item to operate

Input for second item to operate

Output to the second item to operate

Relay Connections Color Codes



Red and Black ar to power the relay coil

Button Light to be turned off when timer activated

Hot or Positive from power source to operate an item

Hot or Positive to the first item to be switched on or off

Hot or Positive from power source to operate an item

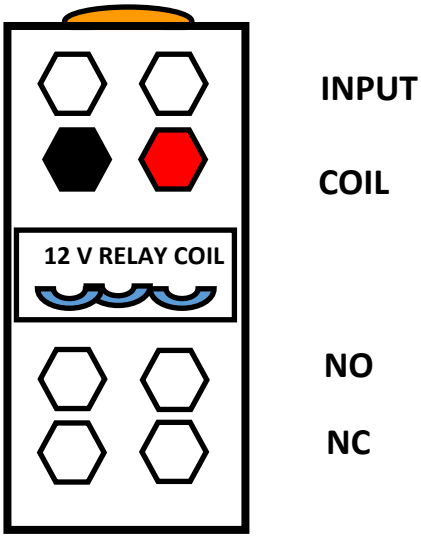
Hot or Positive to the second item to be switched on or off

Activation Leads through the Relay to turn activation OFF

Activation Leads through the Relay to turn activation OFF

Relays Old vs New Styles 2 and 4 Circuits

Old Style



New Style