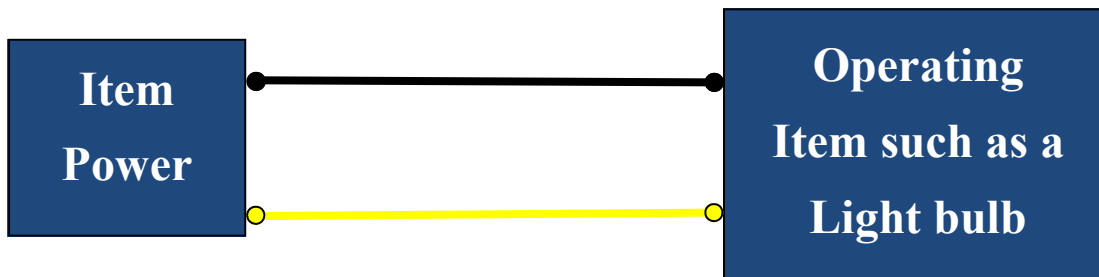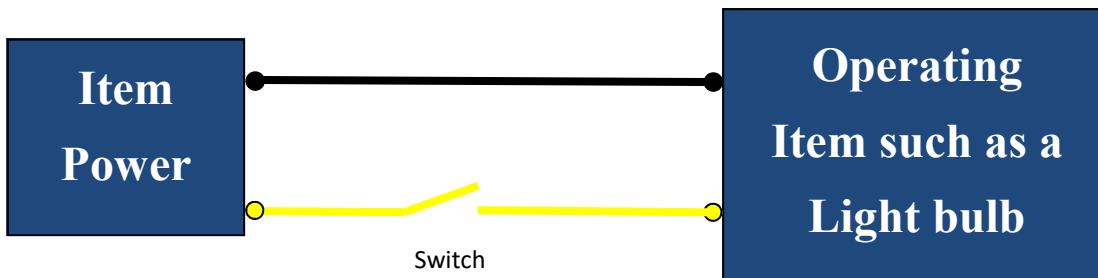# What is a Circuit?

A simple circuit is nothing more than electric power being supplied by some means to operate any electrical item such as a light bulb

| Item Power | Operating Item such as a Light bulb |

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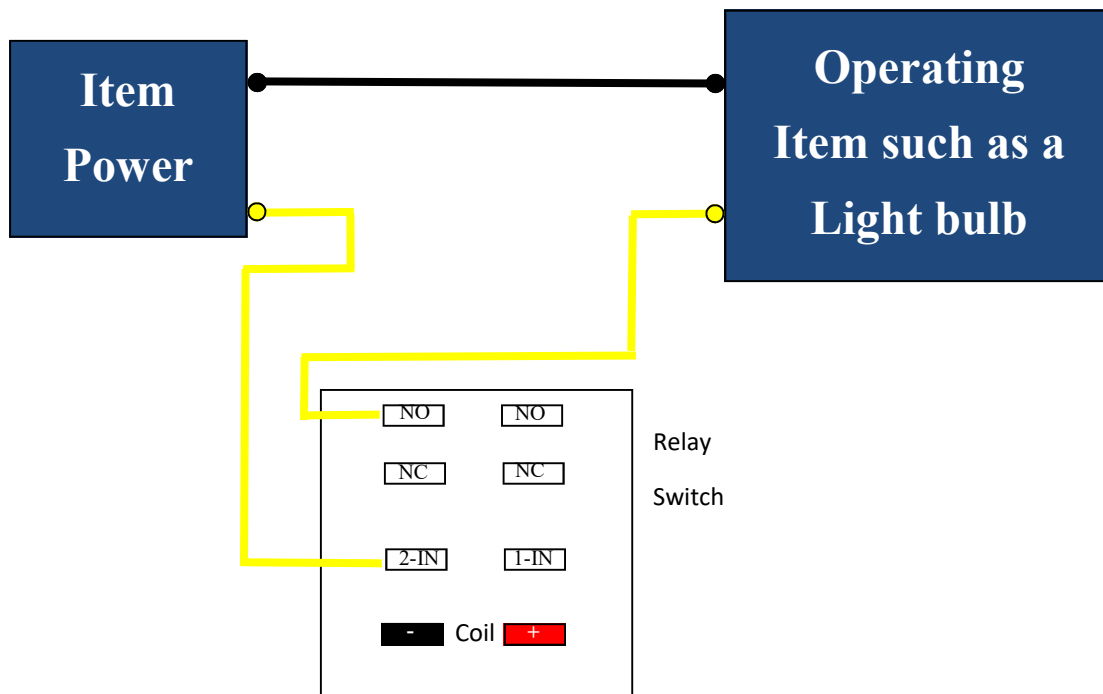| Item Power | Operating Item such as a Light bulb |

Switch

Circuit With a Relay added

Now using a relay is the same as replacing the switch.

Below shows the Relay hooked to the item and the power.

This drawing will do nothing as there is no power to the relay itself.

Please see the next page.

Circuit with a Relay and Push Button to Operate the Relay

Below I am added a power supply to operate the relay.

I am using 12 Volt DC power to operate the relay coil.

I have added a push button to hold down while the items is working.

Next step is to add a timer to make the item work for a specified amount of time.

Please see the file "All - 12 Volt Timer Diagram with 2 Position - 12 V Relay" to add a timer to the relay control.