

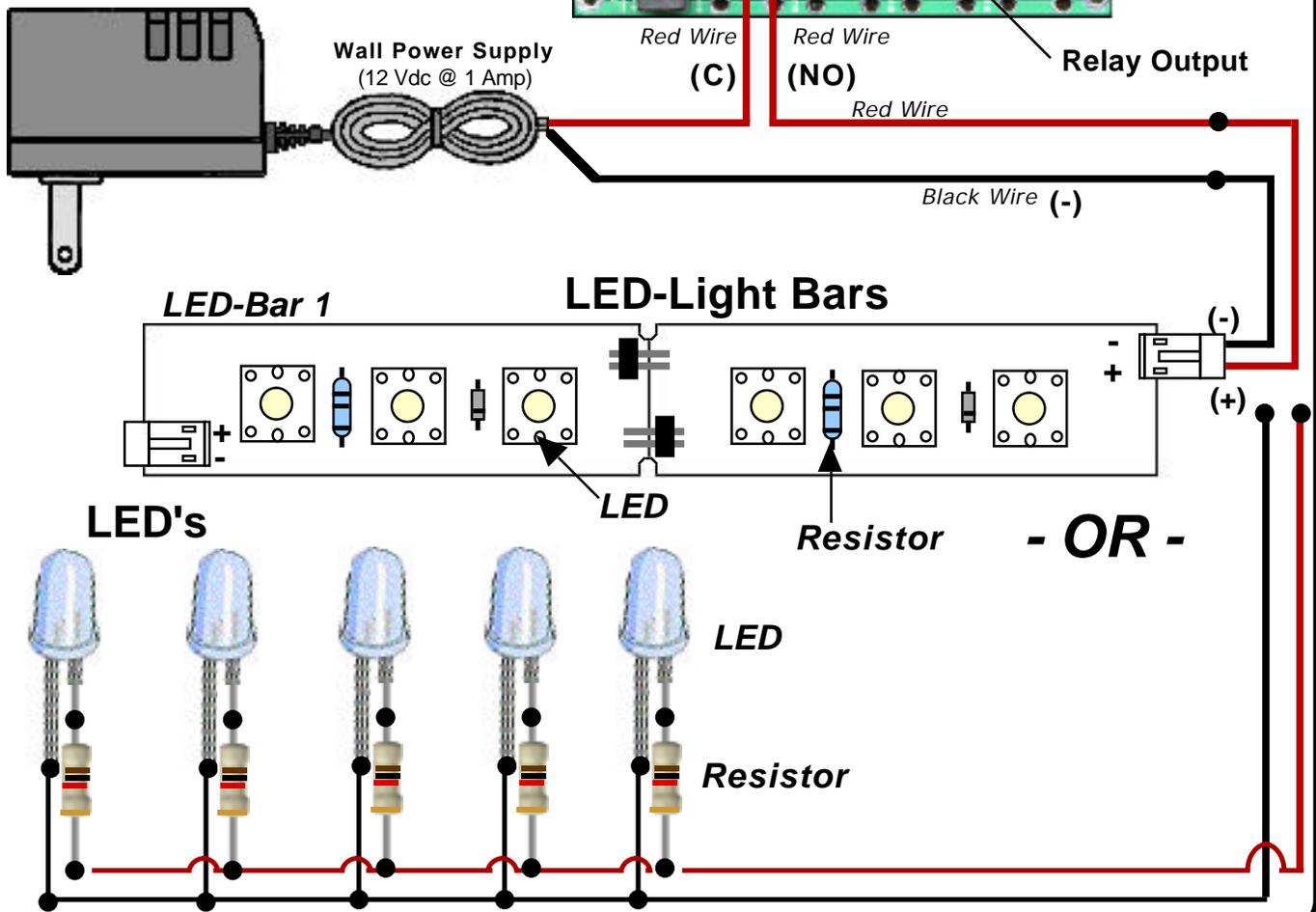


## Controlling Devices by Relays

### Relay to LED Bar, and Single LED's



Wizard - 4 Controller

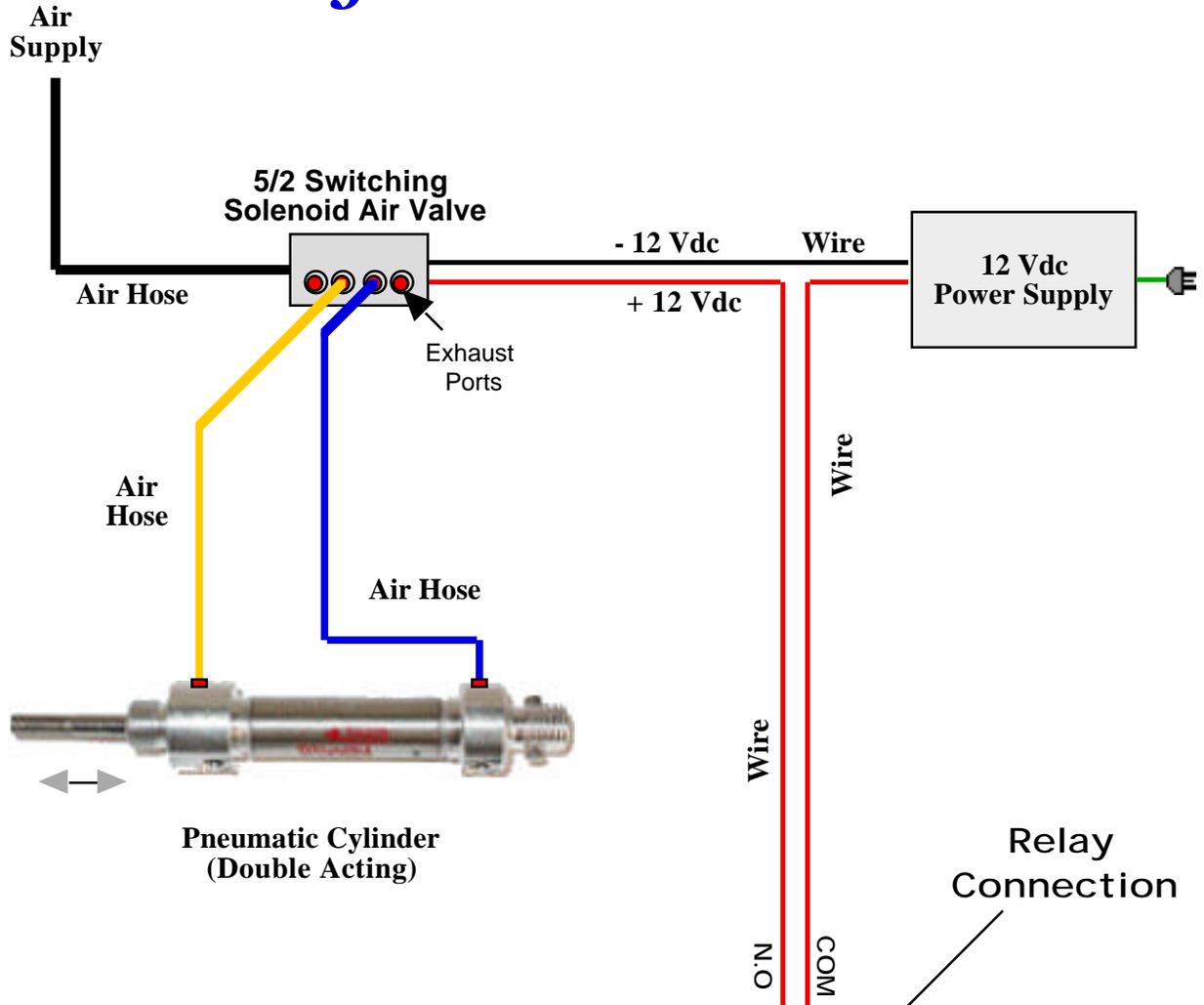


Custom Equipment, Unique Electronic Products

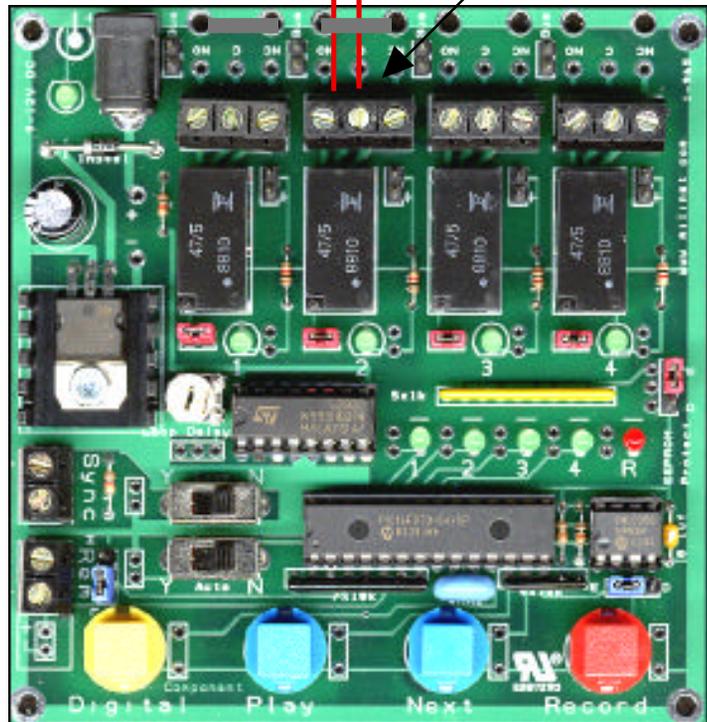
Blue Point Engineering LLC.

Phone (303) 651-3794  
www.BPEsolutions.com

# Relay to Pneumatic Valve



Controller Board

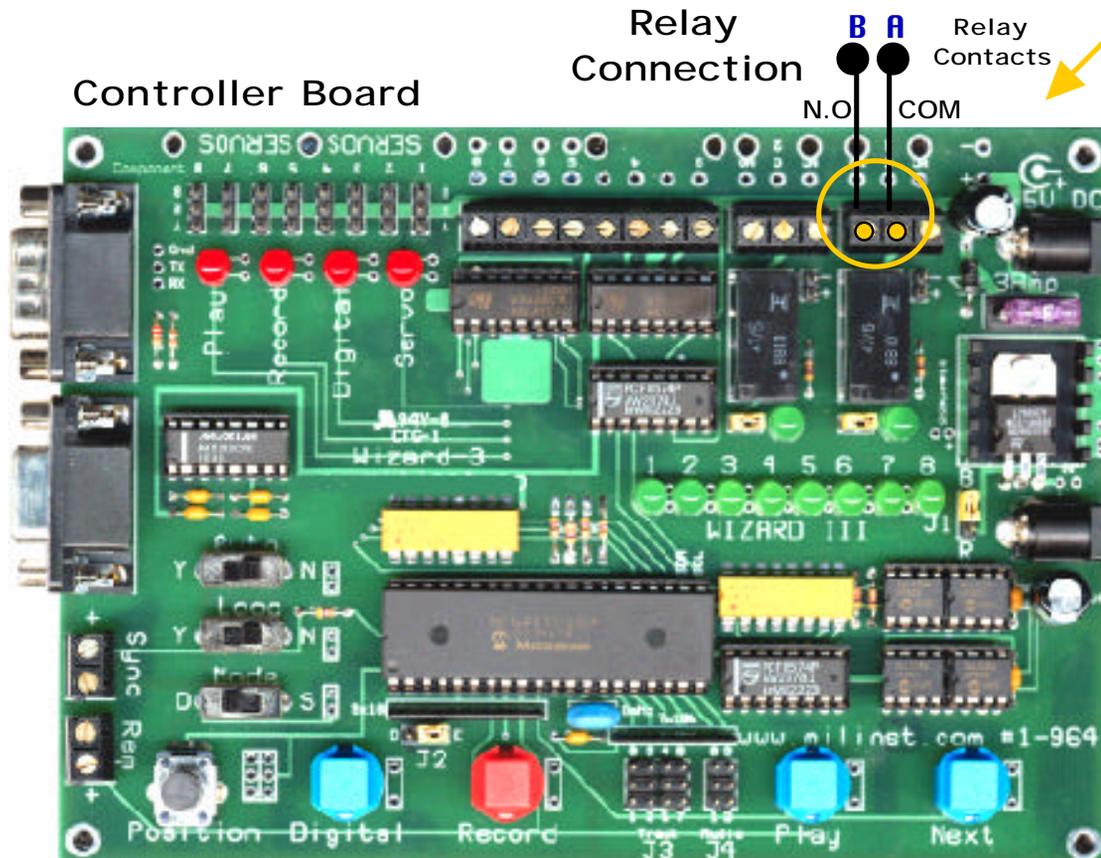
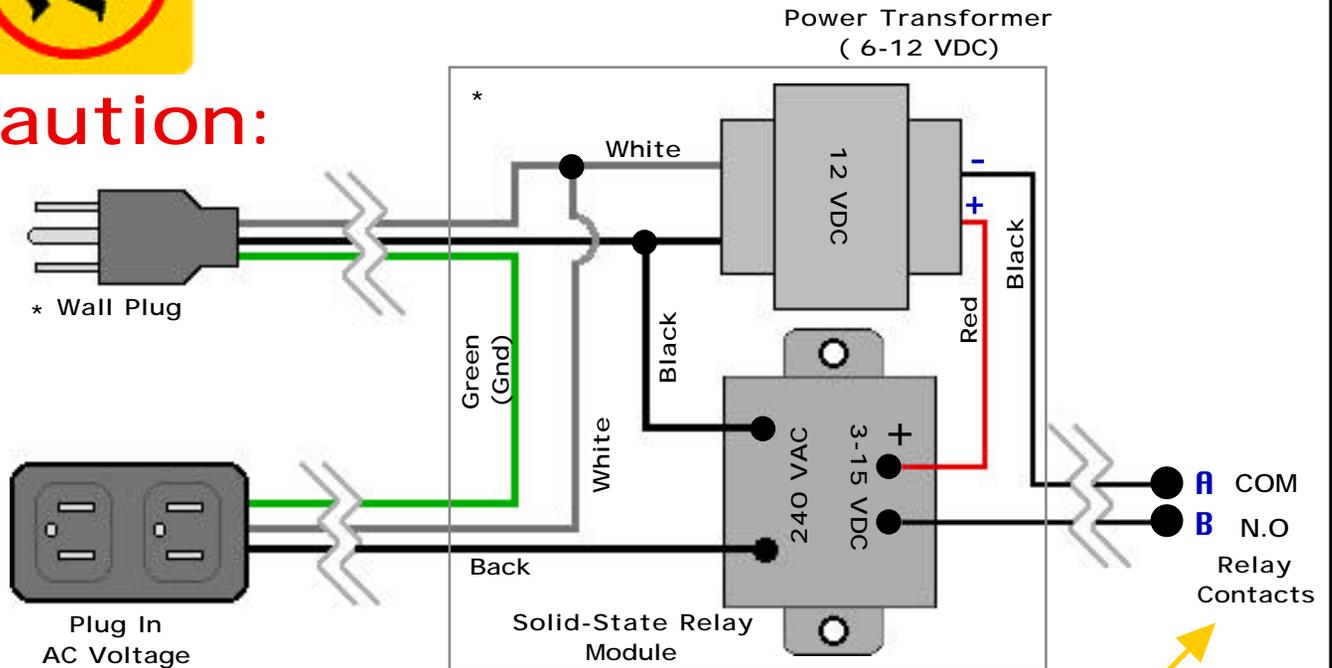


# Relay to Control AC Devives



\* Use caution when working with AC Voltage. Touching or incorrectly wiring this circuit could cause serious personal injury, death or damage to equipment.

**Caution:**

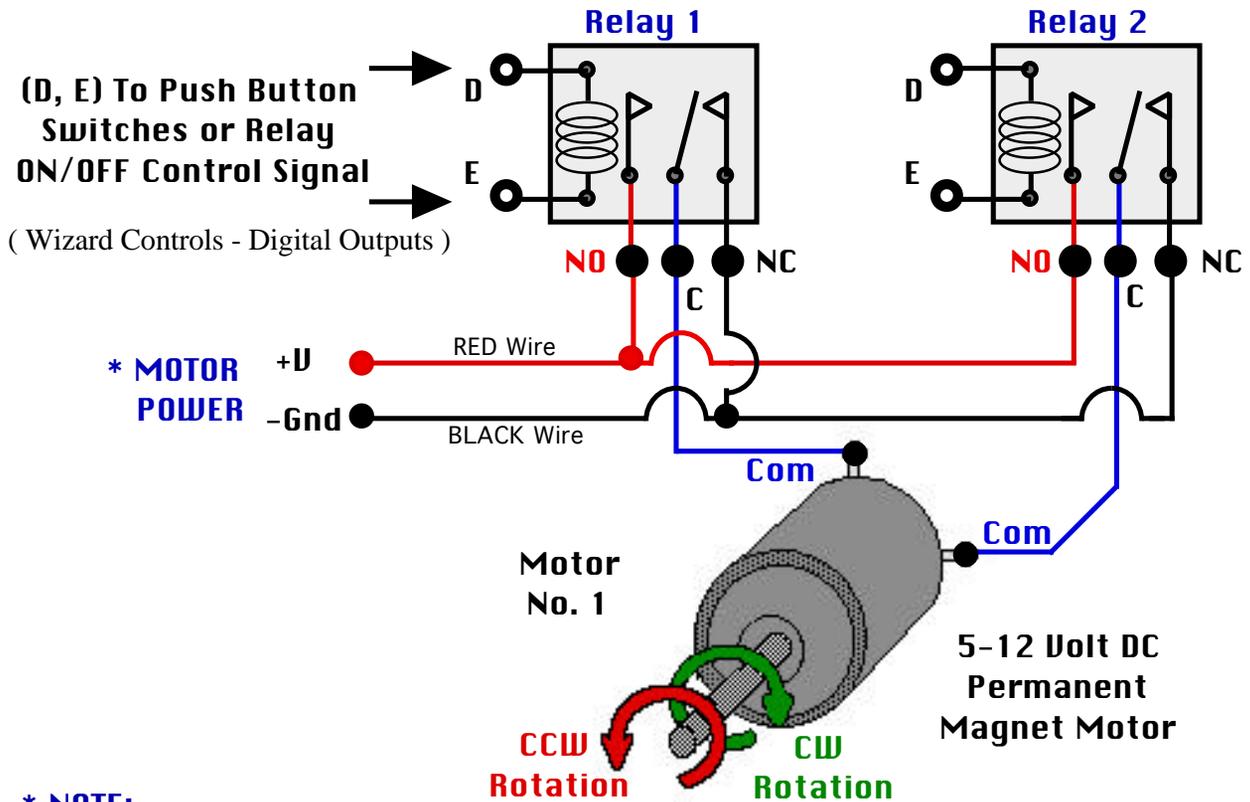


# Relay to Control Motor Rotation

## MOTOR CW-CCW ROTATION SETUP

Dual Relay Motor Control

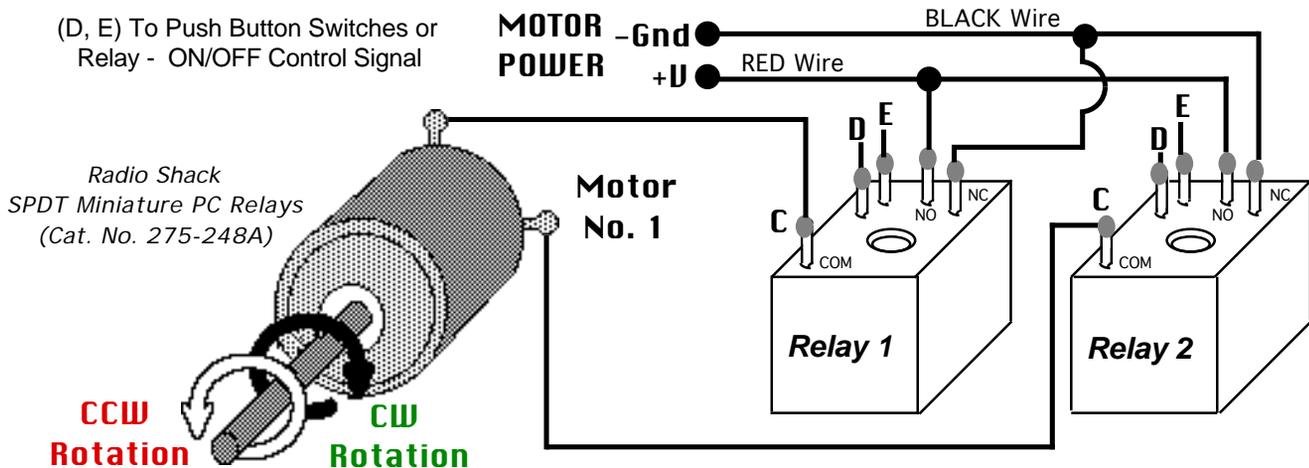
Interface controlled setup that operates DC Permanent Magnet Motors with CW (Clockwise) and CCW (Counter Clockwise) rotation control.



**\* NOTE:**

You can operate several motors at the same time with different voltage requirements. Each pair of relays can be connected to a motor and power supply of different voltages. This method allows 5 volt DC motors to be controlled at the same time that 12 volt DC motors are being used.

The amount of voltage applied to the Motor Power +V and -Gnd connection for each set of motor relays is determined by the motor voltage. A 5 volt motor would require a 5 volt supply. A 12 volt motor would require a +12 volt supply, etc.



# Relay to Control Motor Rotation

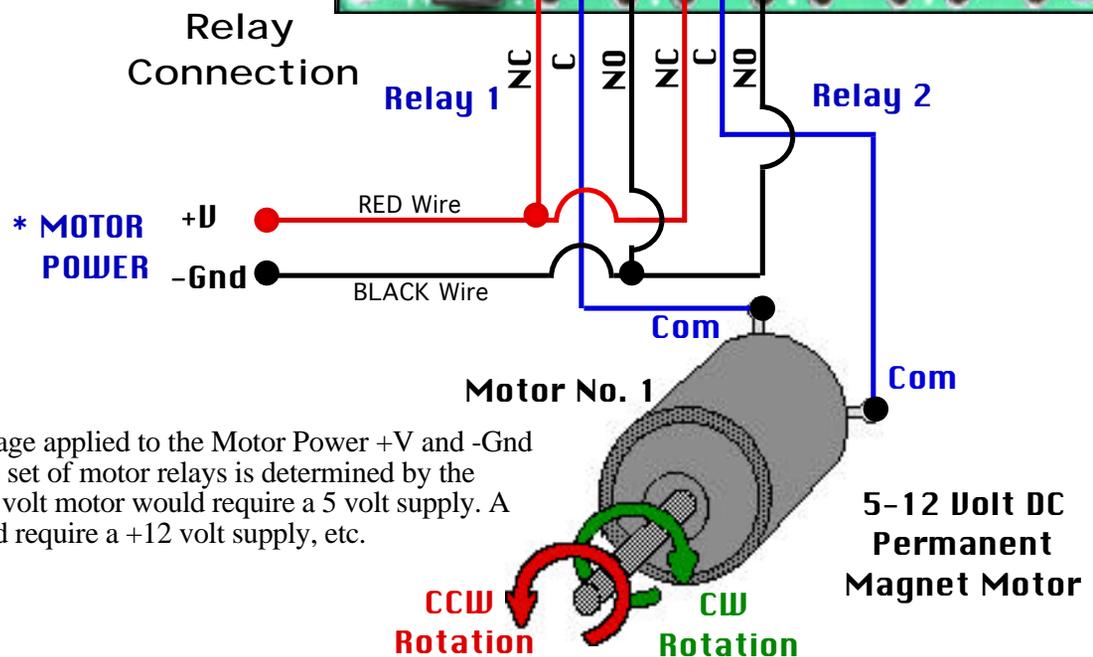
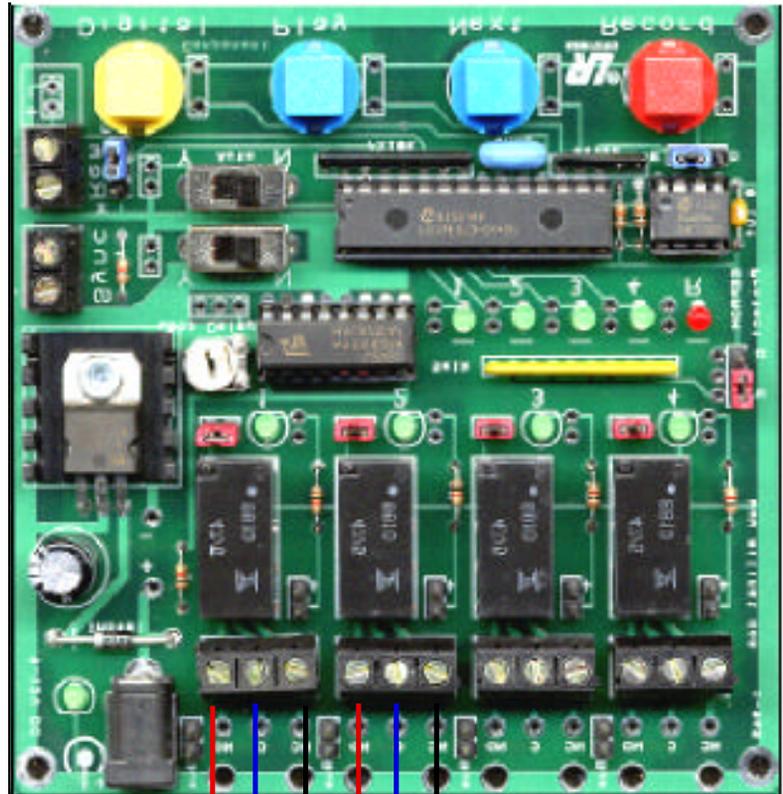
Programmable  
Controller Board

## Motor Logic

Relay 1 ON  
Relay 2 OFF = Motor CCW Rotation

Relay 1 OFF  
Relay 2 ON = Motor CW Rotation

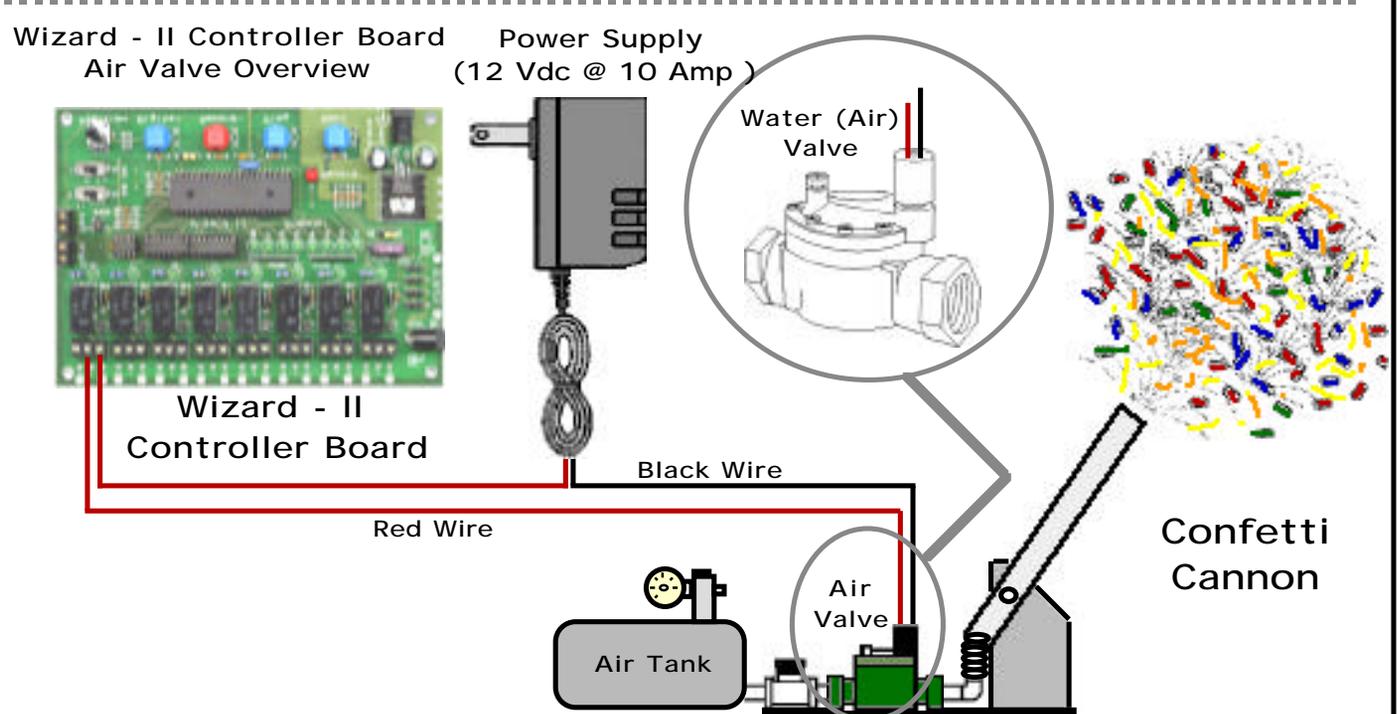
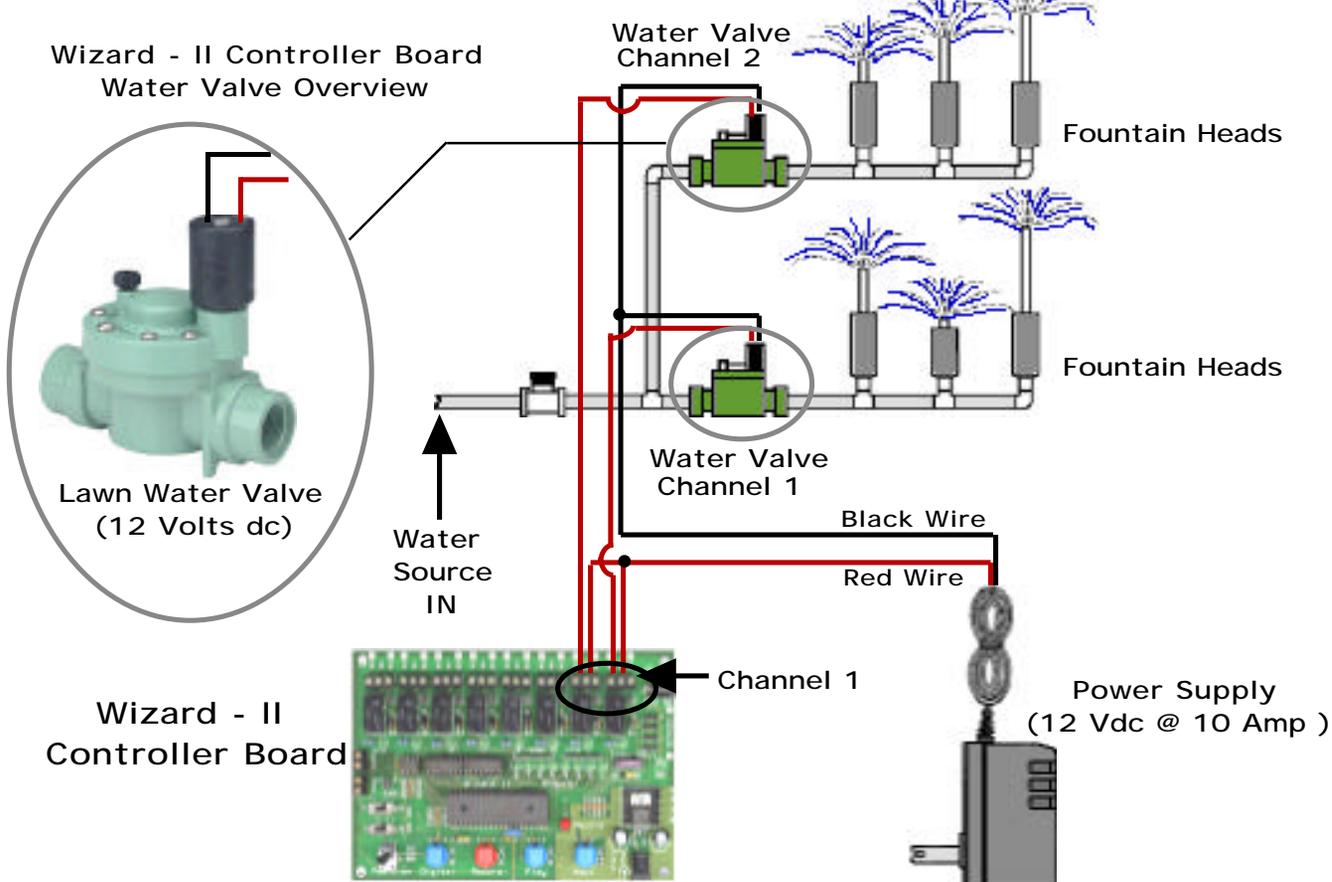
Relay 1 and 2 ON = Motor All Stop  
Relay 1 and 2 OFF = Motor All Stop



### \* NOTE:

The amount of voltage applied to the Motor Power +V and -Gnd connection for each set of motor relays is determined by the motor voltage. A 5 volt motor would require a 5 volt supply. A 12 volt motor would require a +12 volt supply, etc.

# Relay Controlled Water Valve - Effect



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