

Automatic hoist controller for Dumbwaiter elevator
Packing slip

Quantity	Item
1	Controller
4	Limit Switches
6	LED Illuminated Momentary Buttons
6	Button Wiring Harnesses
3	Emergency Stop Buttons
1	12v Power Adapter
1	Packet of paperwork

Thank you for your purchase!

We here at OffGridOnline very much appreciate your business!

If you have any questions or need any assistance with your product, please contact us:

OffGridOnline@gmail.com.

Text/Call: 813-421-2395

We will respond as soon as possible.

We have included a setup video on our YouTube Channel:

<http://YouTube.com/OffGridOnline>

Go to Playlists and select DIY Smart Hoist Project to see it.

Thank You Again,

Michael

Wiring for Buttons and Limit Switches

Version 4.3

We recommend using Cat5 Network wire as it is designed to significantly limit signal interference. The connections for the buttons and limit switches use this network wire for connections. One wire for the limit switches and a separate one for the buttons.

Limit Switch connections (Wire 1)

(NOTE: **Backup limiters use different connection than floor limiters**
Each limit switch needs 2 wires. We recommend using one twisted pair in the Cat 5 wire for each. There are 4 pairs in one Cat 5 wire.

Top limit wire colors

_____ = Floor 2 **Backup** Normally **Closed** (N.C.)

Floor 2 limit wire colors

_____ = Floor 2 Normally **Open** (N.O.)

Floor 1 Limit wire colors

_____ = Floor 1 Normally **Open** (N.O.)

Bottom Limit wire colors

_____ = **Floor 1 Backup** Normally **Closed** (N.C.)

LED Button Connections (Wire 2)

Up led buttons wire colors

_____ = Blue on button

_____ = Green on button

_____ = Red on button

_____ = Black on button

Down Buttons wire colors

_____ = Green on button

_____ = Blue on button

_____ = Red on button

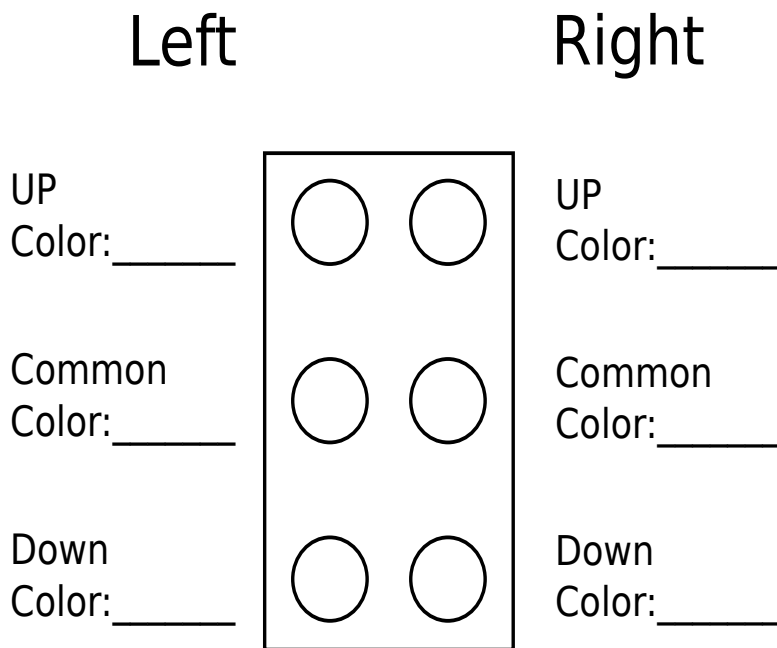
_____ = Black on button

Emergency Stop Wire Colors

_____ = Normally Closed Wire 1

_____ = Normally Closed Wire 2

Determining the terminal wire connections



Pendant Switch Connections

Use an Ohm Meter set for continuity and place one lead on a common (Either side) and any of the other two terminals on the same side of the switch.

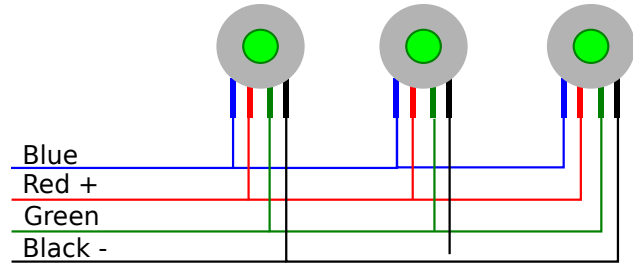
Press the UP button on the pendant and see which terminal is the UP terminal. The meter should read close to 0 if you have the right one.

Write the colors of the wires that are connected to each of the terminals.

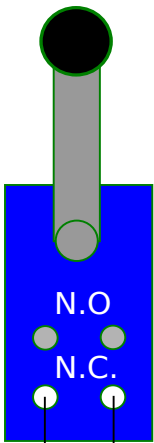
You will use this information to wire the relays in the controller unit.

Button and Limiter Connections

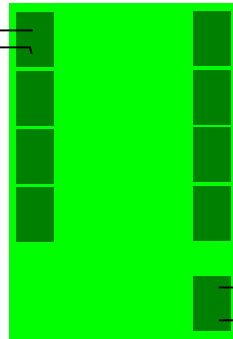
Floor 1 Floor 2 Elevator



NOTE:
Verify which row is the Normally Closed (N.C.) for the Backup limiters. Some connectors vary, but they are usually labelled



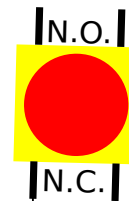
The same setup applies to the other three limit switches. Connect them to the appropriate terminals on the Interface connector



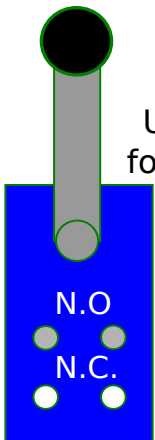
Interface Connector

Connect all 3 UP Buttons together in parallel. Connect all 3 Down buttons together in parallel. Then connect them to the interface connector. Red is the positive lead for the LED light in the button, and black is the negative. The blue and green wires can go either way in the connector- they have no polarity.

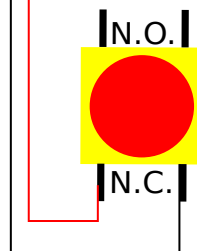
Floor 2 Stop Switch



NOTE:
Use Normally Open for floor 1 and floor 2



The Emergency Stop buttons must be connected in series (Daisy-chained) through the Normally Closed terminals to function properly. The Normally Open (N.O.) terminals are not used.

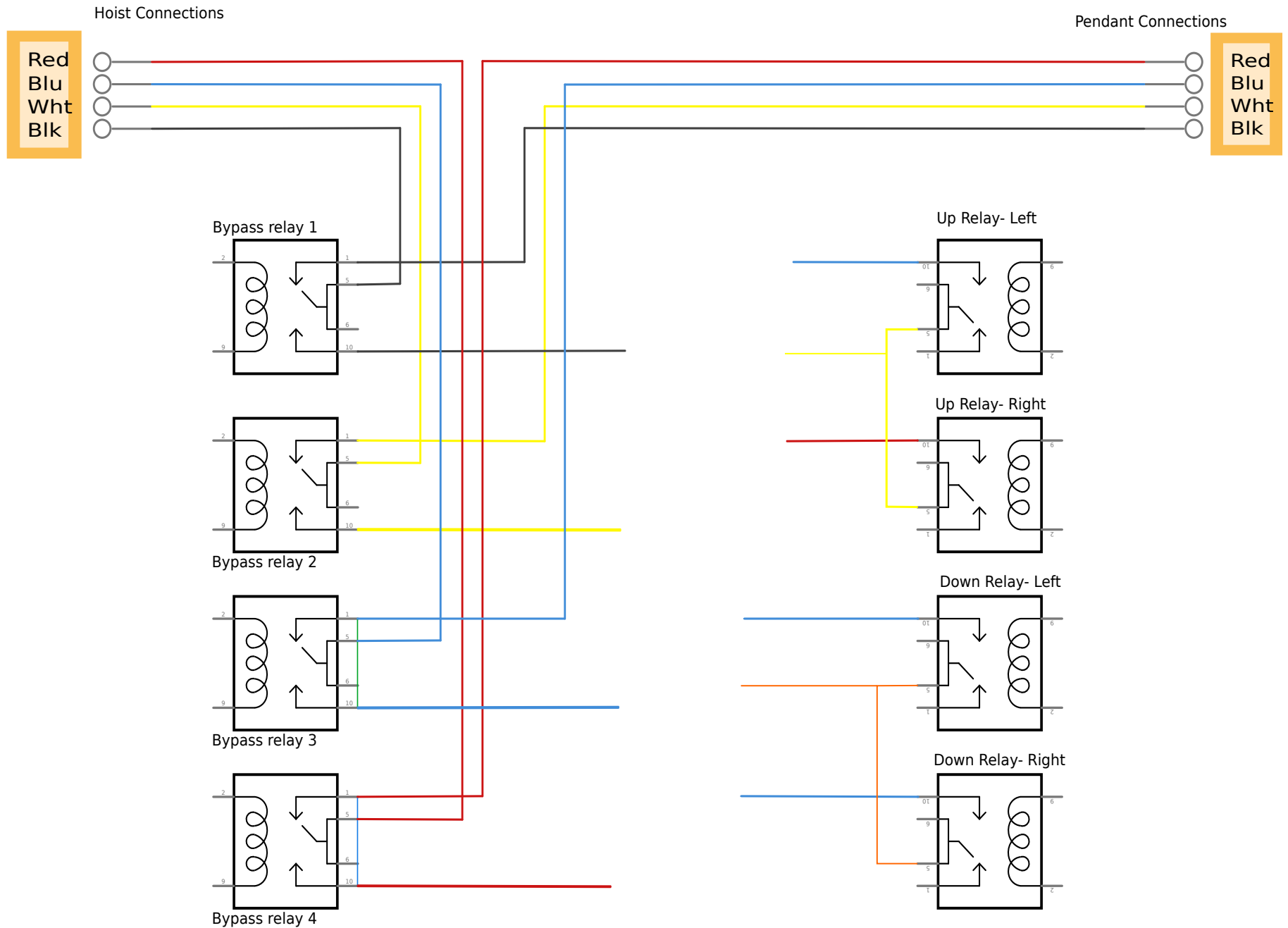


Elevator Stop Switch



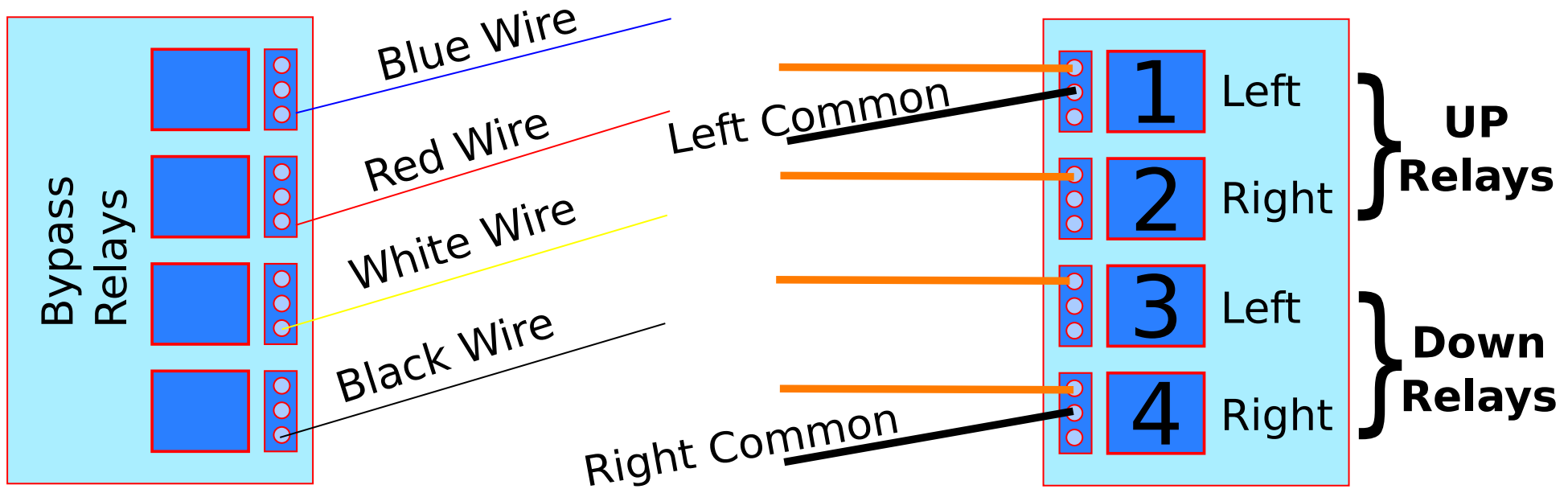
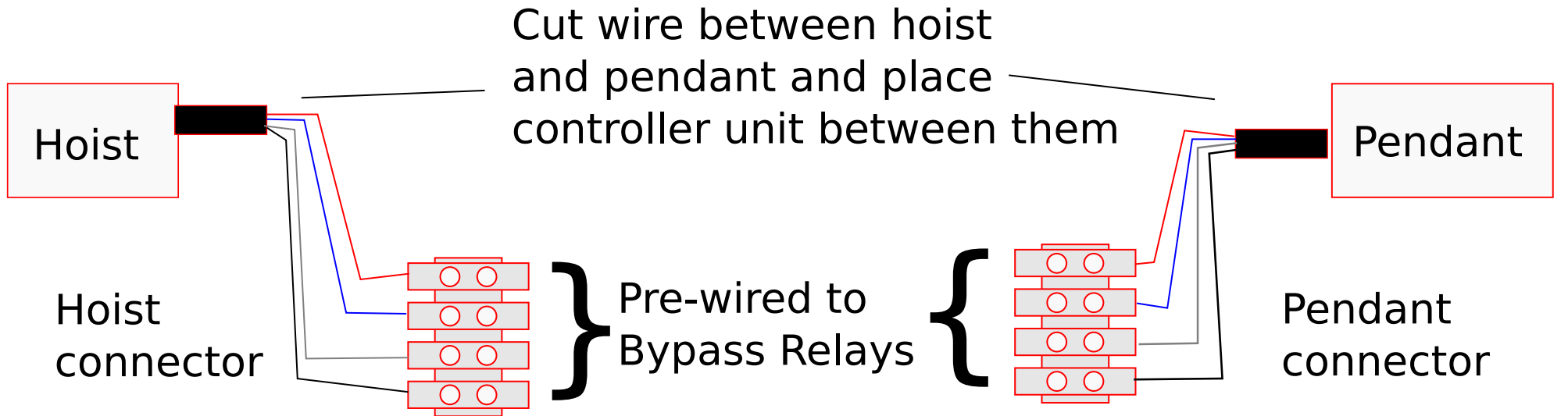
Floor 1 Stop Switch

High Voltage Relay Connection Schematic



Version 4.3

High Voltage Connections



Sample Limit Switch Setup

