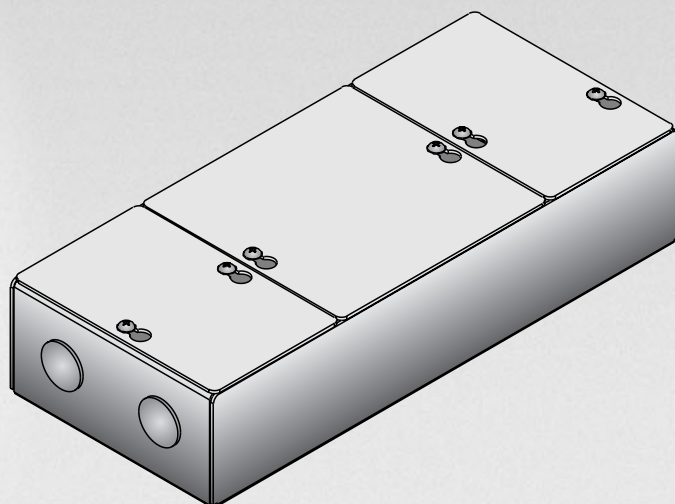


The
POWER *In*
PRESENTATION PRODUCTS



**Installation and Operating Instructions For
SINGLE MOTOR LOW VOLTAGE
CONTROL SYSTEM**



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The low voltage control (LVC) housing is divided into 3 compartments. The compartment labeled "Low Voltage Connections" is where you will connect the wall switch or a central control panel. The compartment labeled "AC Power Connections" is where the main power and motor wire connections are made. The center compartment only requires access when connecting an infrared or radio frequency remote receiver or to replace the onboard fuse.

INSTALLATION

WARNING: To prevent electrical shock or damage to the LVC, do not apply power to the LVC until all connections are complete. Make sure power is turned off on all wires before making connections.

LOW VOLTAGE CONNECTIONS:

Wall Switch

1. Install wall switch where desired.
2. Use 3-conductor 20-24 gauge wire to extend the switch wire to the required length.
3. Connect the wire from the switch to the wire labeled "wall switch". Refer to diagram 1.



CAUTION: Never apply voltage to the wall switch lead or the LVC will be damaged.

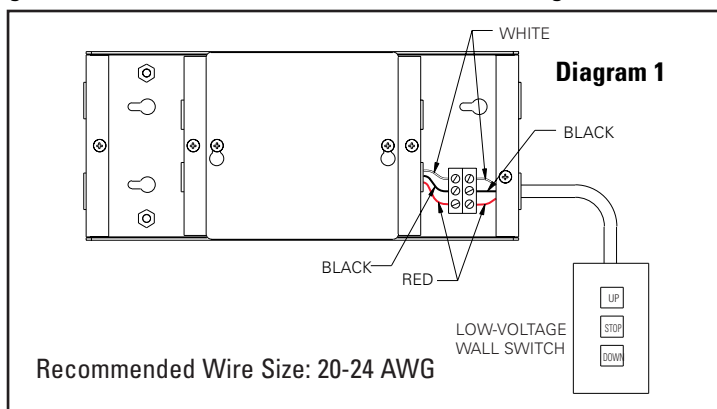
Control Panel

A control panel may be connected to the LVC by using the wall switch wire lead. The control panel must provide a momentary, dry contact closure of at least 1/2 second.

1. Use 3-conductor 20-24 gauge wire to connect the control panel to the wall switch lead.
2. A momentary closure across the white and red wires will be an "up" command.
3. A momentary closure across the white and black wires will be a "down" command.
4. A momentary closure across the white, red and black wires will be a "stop" command.



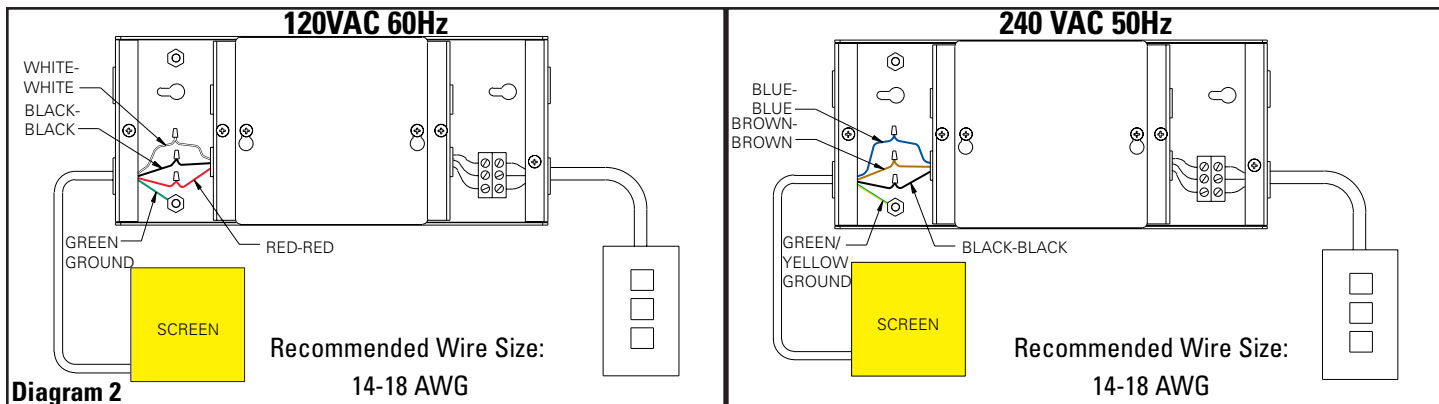
CAUTION: Never apply voltage to the wall switch lead or the LVC will be damaged.



AC POWER CONNECTIONS:

Screen Motor

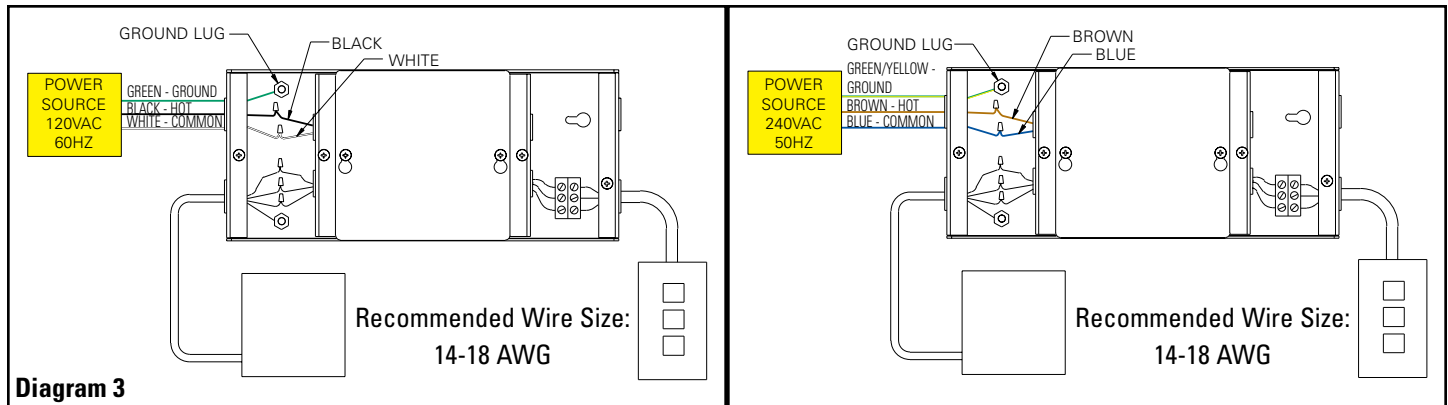
1. Connect the motor wires in the screen junction box to the LVC wires labeled "motor wires". Refer to diagram 2.
2. Use 14-18 gauge wire to extend the motor wire to the required length.



INSTALLATION

AC Power Source

1. Connect power wires to the LVC wires labeled "AC power input". Refer to diagram 3.
2. Connect the building ground wire to the ground lug on the metal housing.



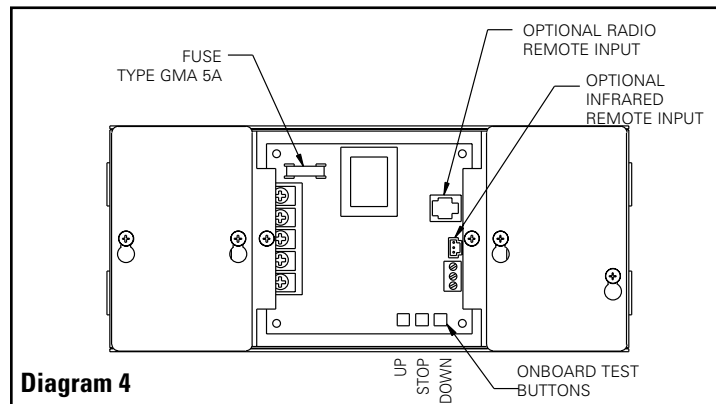
OPTIONAL WIRELESS REMOTE CONNECTIONS:

Radio Frequency Remote

1. Remove the cover plate labeled "Low voltage connections" and the center cover plate.
2. Route the receiver wire through the round plastic bushing and plug it into the onboard socket. Refer to diagram 4.

Infrared Remote

1. Remove the cover plate labeled "Low voltage connections" and the center cover plate.
2. Route the receiver wire through the round plastic bushing and plug it into the onboard socket. Refer to diagram 4.



TROUBLESHOOTING

Using Onboard Control Buttons

The onboard control buttons (see diagram 4) may be used to operate the LVC without the wall switch or optional remote controls. This may be helpful for troubleshooting external controls or faulty wiring. If the LVC functions properly with the onboard control then there may be a wiring problem with the external control.

1. Recheck all wire connections of the non-functioning device.
2. Check for bare wires that may be shorted.

Fuse Replacement

WARNING: To prevent electrical shock turn off power to the LVC before replacing the fuse. Remove the center compartment cover. Remove the old fuse and replace with type GMA 5A (5 amp).

TROUBLESHOOTING

SYMPTOM	CAUSE	SOLUTION
1. Screen will not operate.	<ul style="list-style-type: none"> (a) No power to LVC unit. (b) Blown fuse. (c) Incorrect wiring. (d) Faulty wall switch or other activation device. (e) Low voltage circuit damaged due to voltage input. 	<ul style="list-style-type: none"> (a) Turn on power to LVC input. Measure voltage across black and white input leads. (b) Check wiring for incorrect installation or shorts. Disconnect motor wires from LVC. Replace fuse (type GMA-5A). Operate LVC several times to see if fuse blows again. If fuse is ok, the screen motor may be faulty or have a shorted wire. (c) Recheck all wiring for proper installation. Check all wire nut connections. (d) Disconnect all switch, remote control, and control panel wires. Try to operate screen by pushing the square black buttons on the LVC board. If screen operates properly check other controls one at a time to find the faulty control. (e) The wall switch terminal is for dry contact (no voltage) input only. Applying voltage to this terminal will damage the LVC.
2. Radio frequency remote does not work.	<ul style="list-style-type: none"> (a) Weak battery in transmitter. (b) Dip switch settings incorrect in transmitter or receiver. 	<ul style="list-style-type: none"> (a) Replace battery. (b) Open transmitter and receiver housings. Check dip switch positions. Setting must match on both transmitter and receiver. NOTE for transmitter: The number 9 switch on the lower switch bank must be set to "on" or in the up direction.
3. Infrared remote does not work.	<ul style="list-style-type: none"> (a) Weak battery in transmitter. (b) Receiver incorrectly positioned. (c) Fluorescent light interference. 	<ul style="list-style-type: none"> (a) Replace battery. (b) Receiver must be unobstructed and located in direct line with the transmitter. (c) Remote receiver should not be placed near fluorescent lights.
4. Screen runs in the wrong direction.	<ul style="list-style-type: none"> (a) Red and black wires are reversed on motor or wall switch terminals. 	<ul style="list-style-type: none"> (a) Turn off power to LVC. Reverse the red and black wires on either the motor terminals or the wall switch terminals. Changing either one will change the direction of motor travel. Do not change both.