

INSTRUCTION BOOK FOR

Tensioned Large Cosmopolitan® Electrol®

DA-LITE®

Original Instructions

Disclaimer

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Important Safety Instructions

When using your video equipment, basic safety precautions should always be followed, including the following:

1. Read and understand all instructions before using.
2. Position the cord so that it will not be tripped over, pulled, or contact hot surfaces.
3. If an extension cord is necessary, a cord with a current rating at least equal to that of the appliance should be used. Cords rated for less amperage than the appliance may overheat.
4. To reduce the risk of electric shock, do not disassemble this appliance. Contact an authorized service dealer when repair work is required. Incorrect reassembly can cause electric shock when the appliance is used subsequently.
5. The use of an accessory attachment not recommended by the manufacturer may cause a risk of fire, electric shock, or injury to persons.
6. Failure to provide adequate structural strength for this component can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the structure to which this component is attached can support the weight of all equipment. Reinforce the structure as required before installing the component.
7. Use this projection screen only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.

Save These Instructions

Installation

Carefully unpack screen and remove outer wrapping from case.

The slat retainer screws must be removed before installation. Use supplied 1/8" nex key to remove silver shipping brackets attached to slat and screen case. Orient the case with the slat down and then remove the screws. The case must remain in that orientation throughout the installation process to avoid fabric damage.

The Tensioned Large Cosmopolitan® Electrol® comes with brackets to allow for wall mount or ceiling mount installations. Procedures for each method are as follows::

Wall Mount

1. The wall mount bracket should be fastened to wall studs or some reinforcement within the wall. Concrete or brick walls require special fasteners and anchors.
2. The wall bracket has holes spaced at 16" and 24" to align with most wall studs.
3. The bracket must be level and plumb.
4. Keep in mind you will need at least 2-3/4" between the ceiling and the top of the wall mount bracket to be able to position the case on the bracket.
5. Mount the screen case on the wall bracket as shown in figure 1. Be sure the case is fully seated on the bracket. Tighten the stop screws against the wall bracket.

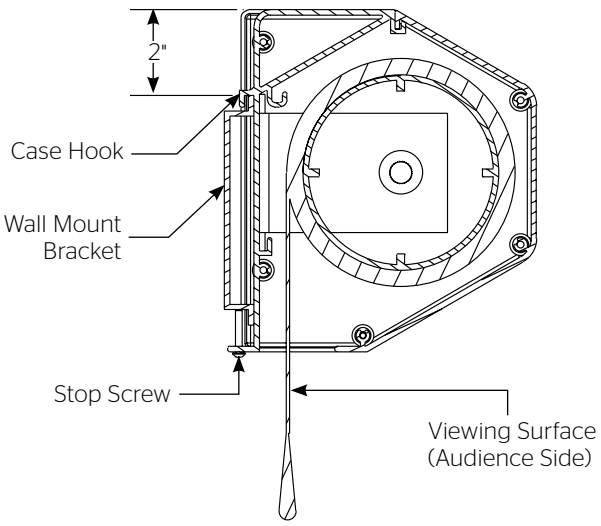


Figure 1

Ceiling Mount

1. Be sure the ceiling has adequate reinforcement to attach the screen brackets.
2. Attach the ceiling brackets to the wall mount bracket using the supplied 5/16" x 3/4" bolts, washers and nuts.
3. Position the ceiling bracket assembly on the ceiling and attach with 5/16" bolts (not supplied). The bolts should be long enough to pass through the drywall or ceiling tile and penetrate at least 1-1/2" into the reinforcement in the ceiling.
4. Mount the screen on the wall bracket as shown in figure 2. Be sure the case is fully seated on the bracket. Tighten the stop screws against the wall bracket.

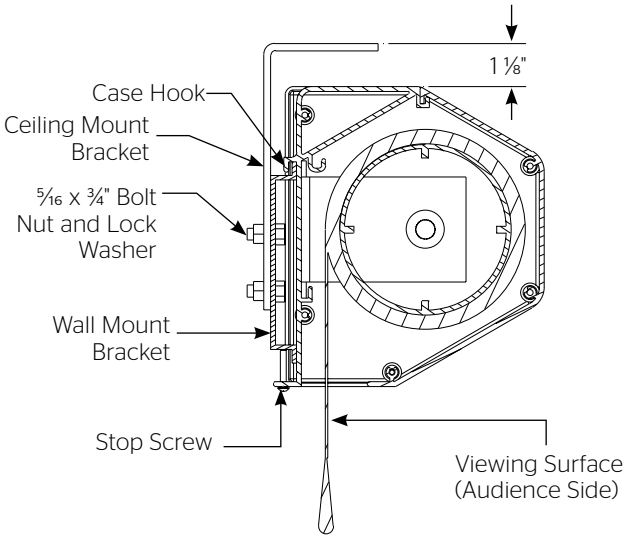


Figure 2

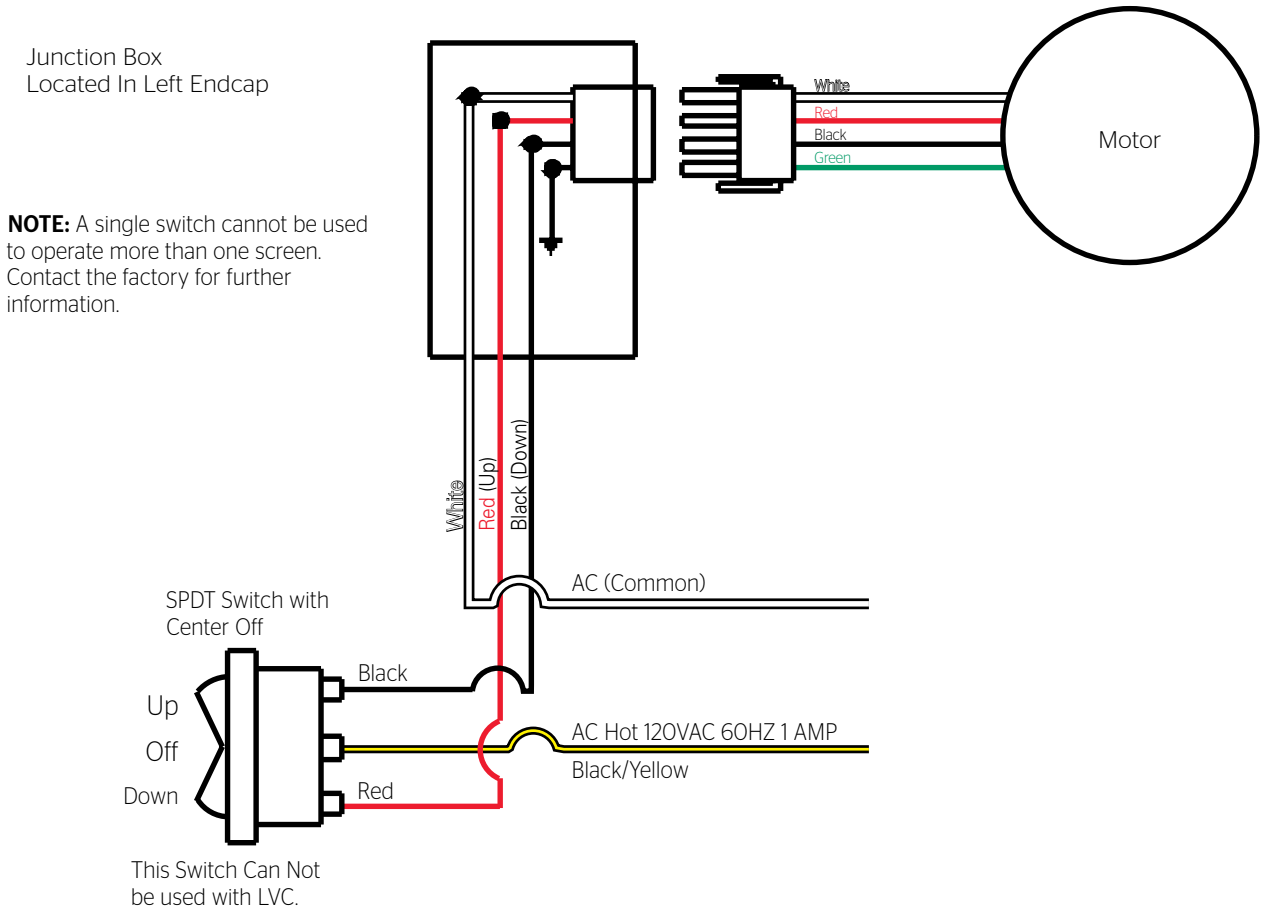
120V Wiring Diagram

Internal wiring has been completed at the factory. Installer must route power to the wall switch and to the junction box located on the left end of the screen case.

See wiring diagram below for wire connections.

NOTE: This screen can only be controlled by a single 120VAC wall switch. To use multiple switches, an optional low voltage control must be used.

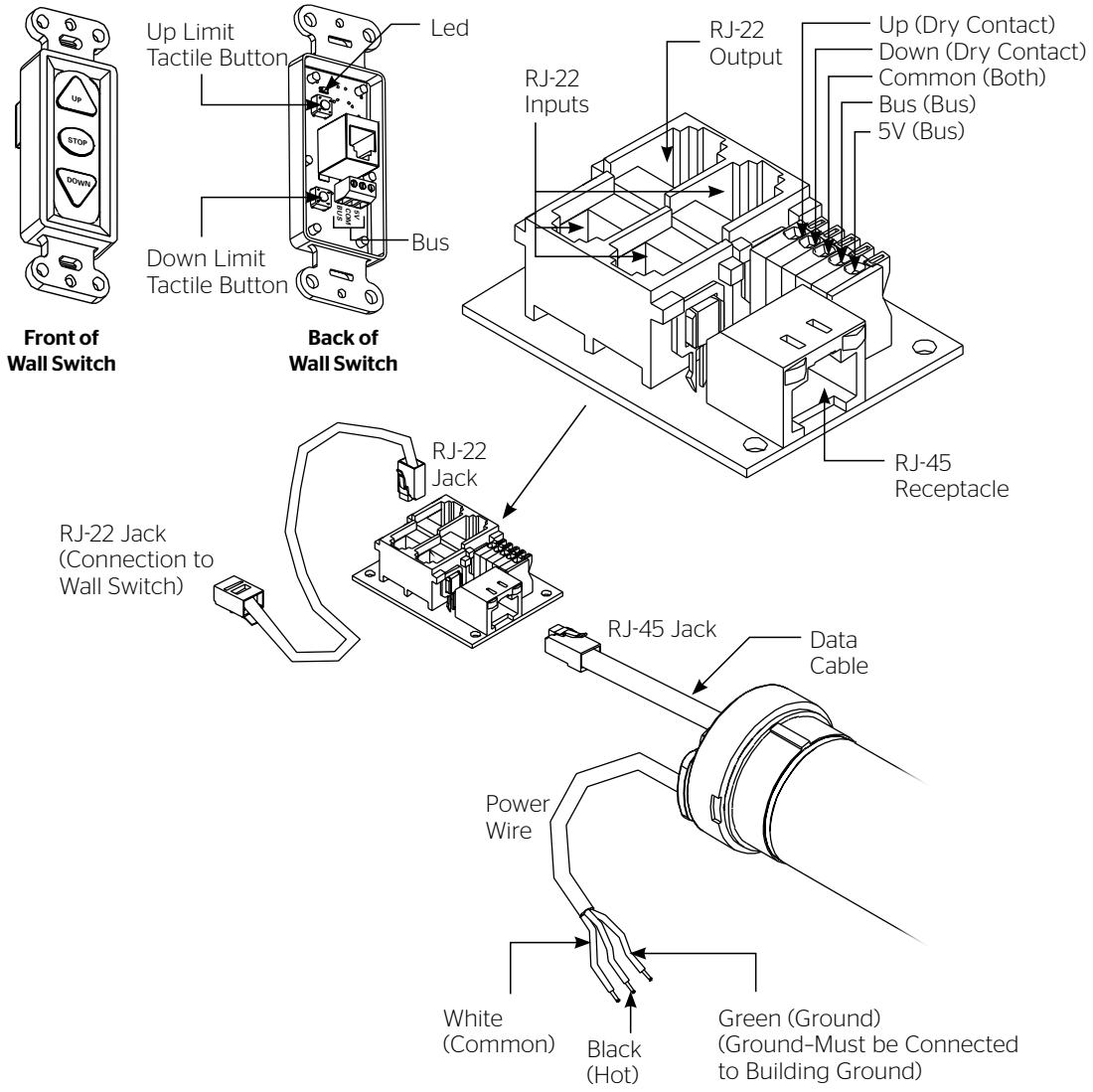
120V Wiring Diagram
For Standard Wall Switch



120V Wiring Diagram with Optional Built-In Low Voltage Control

3-conductor 20–24 gauge wire can be used in place of the supplied RJ-14 cable to connect the wall switch. Connect the BUS terminals on the wall switch to the corresponding BUS terminals on the splitter board.

IMPORTANT NOTE: The wall switch is REQUIRED to make any limit switch adjustments, EVEN if a third party control system is used. Therefore, it is advised to wire the switch or provide a 3-conductor connection that is accessible.



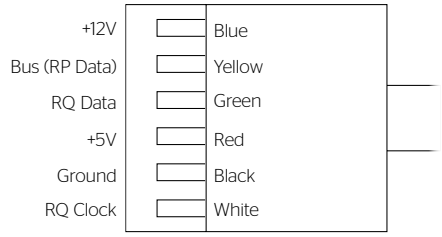
Power Input 120VAC / 60Hz

RJ-14 Pin-Outs (Tab Is Facing Down)



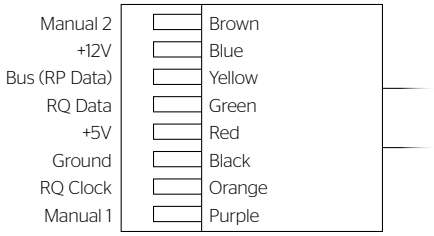
Supplied RJ-14 cable

RJ-22 Pin-Outs (Tab Is Facing Down)



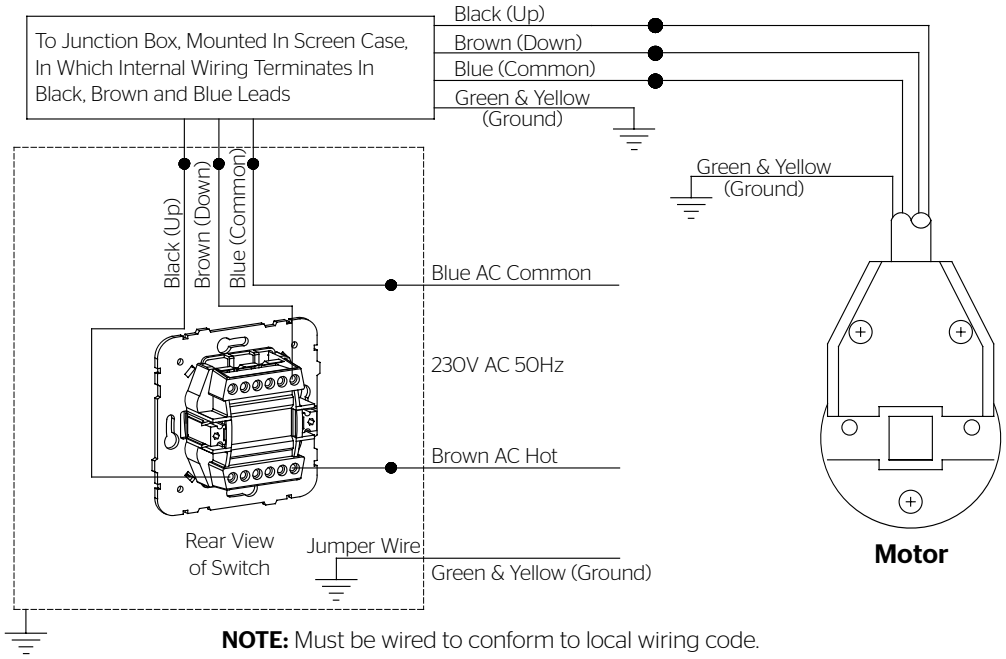
Standard RJ-22 can be used in place of RJ-14 cable

RJ-45 Pin-Outs (Tab Is Facing Down)



240V Wiring Diagram - European Switch

NOTE: A single switch cannot be used to operate more than one screen. In multiple control installations this switch is replaced by the low voltage control, operated from push button stations. Contact the factory for further information.

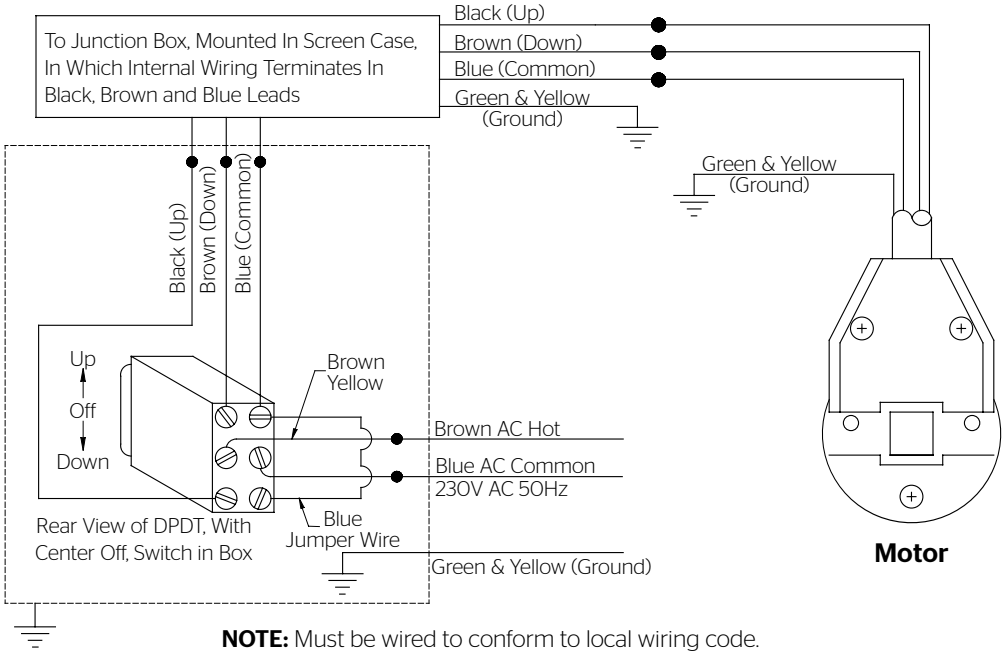


NOTE: Must be wired to conform to local wiring code.

This Switch Cannot Be Used With LVC.

240V Wiring Diagram - Rocker Switch

NOTE: A single switch cannot be used to operate more than one screen. In multiple control installations this switch is replaced by the low voltage control, operated from push button stations. Contact the factory for further information.



NOTE: Must be wired to conform to local wiring code.

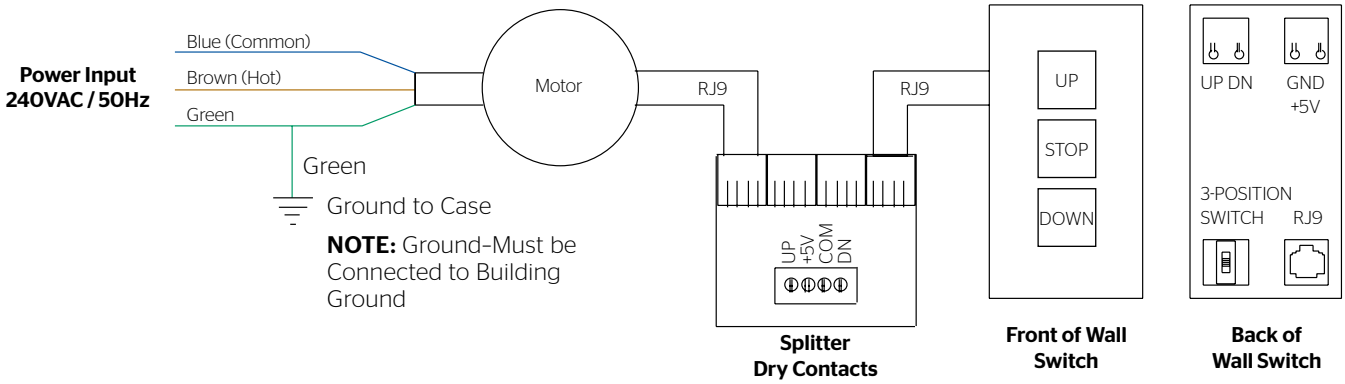
This Switch Cannot Be Used With LVC.

240V Wiring Diagram with Optional Built-In Low Voltage Control

IMPORTANT NOTE: The wall switch is REQUIRED to make any limit switch adjustments, EVEN if a third party control system is used. Therefore, it is advised to wire the switch or provide a 4-conductor connection that is accessible.

ILT RJ-9 Pin-Outs (Tab Is Facing Down)





Screen Adjustment for 120V Screens

If your Tensioned Contour Electrol was ordered as a complete unit, the up and down limits were pre-set by Da-Lite. If your screen and roller assembly was ordered separately from the case, or if general adjustment is needed, please follow the steps below and refer to the 120V Wiring Diagram.

1. Locate the wall switch and remove the cover plate from the wall switch and remove the switch from the junction box.
2. Locate the two tactile buttons on the back of the switch. They are black round buttons on silver plates. See 120V Wiring Diagram.
3. To adjust the down limit switch, press and hold the down tactile button until the LED on the back of the switch turns solid red. This will put the motor in limit set mode. Turn the wall switch over and use the down button on the front of the switch. Press and hold the down button until the desired down position is reached. If you travel too far down, press the up button to move the screen upward. If you press and let go of either the up or down buttons, the motor will do a small jog in that direction for fine adjustment of the screen. Once the desired position is reached, turn the switch over; press and hold the down tactile button until the LED on back of switch blinks red twice. The down limit is now set.

⚠ **CAUTION: Do not adjust for more drop than what was ordered. At least 1-1/2 wraps of fabric must remain on the roller. This screen comes standard with 12" black at the top.**

⚠ **ATTENTION! N'effectuez pas de réglage pour obtenir un déroulement supérieur à celui commandé. Au moins 1 à 1/2 tour de toile doit être maintenu sur le cylindre. Ce écran est doté de série d'une bande noire supérieure de 30,5 cm (12 po).**

NOTE: If the screen is in limit set mode and no buttons are pushed for 20 seconds, the LED on the back of the wall switch will turn off, the motor will return to run mode and no changes will be saved. If this occurs, return to step 3 for down limit adjustment or step 4 for up limit adjustment.

4. To adjust the up limit switch, press and hold the up tactile button until the LED on the back of the switch turns solid green. This will put the motor in limit set mode. Turn the wall switch over and use the up button on the front of the switch. Press and hold the up button until the desired up position is reached. If you travel too far up, press the down button to move the screen downward. If you press and let go of either the up or down buttons, the motor will do a small jog in that direction for fine adjustment of the screen. Once the desired position is reached, turn the switch over; press and hold the up tactile button until the LED on back of switch blinks green twice. The up limit is now set.

⚠ **CAUTION: Adjusting the down limit switch for less drop by more than 6" can cause the screen surface to lose proper tensioning.**

⚠ **ATTENTION! Le fait d'ajouter ne déroulez pas trop l'écran plus de 15 cm (6po) aux interrupteurs de fin de course peut faire perdre la bonne tension à la surface de l'écran.**

5. To test the limit switch settings, press and release the up or down buttons on the switch to operate the screen.
6. Replace the switch and cover plate on the wall.

IMPORTANT NOTE: The wall switch is REQUIRED to make any limit switch adjustments, even if a third party control system is used. Therefore, it is advised to wire the switch or provide a 3-conductor connection that is accessible.

Low Voltage Connections for 120V Screens with Built-In Low Voltage Control

Control Panel

A control panel may be connected to the splitter board by using the dry contact Up, Down and Common connections. 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 splitter board.
2. A momentary closure across the common and up wires will be an "up" command.
3. A momentary closure across the common and down wires will be a "down" command.
4. A momentary closure across the common, up and down wires will be a "stop" command.

Screen Adjustment for 220V/240V Screens

1. Remove the cover plate from the 3-button wall switch and remove the switch from the junction box.
2. Locate small 3-position switch on back of wall switch. See Figure 5 for 120V screens or Figure 8 for 220/240V screens.
3. To adjust the down limit switch, slide the 3-position switch to the down position. Press and hold the down button to run the screen down to the desired stop position. Release the button to stop the screen. DO NOT PUSH THE STOP BUTTON.

⚠ **CAUTION: Do not adjust for more drop than what was ordered. At least 1-1/2 wraps of fabric must remain on the roller. This screen comes standard with 12" black at the top. See the specification data sheet for details.**

⚠ **ATTENTION! N'effectuez pas de réglage pour obtenir un déroulement supérieur à celui commandé. Au moins 1 à 1/2 tour de toile doit être maintenu sur le cylindre. Ce écran est doté de série d'une bande noire supérieure de 30,5 cm (12 po).**

4. When the screen is in the desired down position, slide the 3-position switch to the off (center) position. The down limit switch is now set.
5. To adjust the up limit switch, slide the 3-position switch to the up position. Press and hold the up button to run the screen up to the desired stop position. Release the button to stop the screen. DO NOT PUSH THE STOP BUTTON.

⚠ **CAUTION: Adjusting the down limit switch for less drop by more than 6" can cause the screen surface to lose proper tensioning.**

⚠ **ATTENTION! Le fait d'ajouter ne déroulez pas trop l'écran plus de 15 cm (6po) aux interrupteurs de fin de course peut faire perdre la bonne tension à la surface de l'écran.**

6. When the screen is in the desired up position, slide the 3-position switch to the off (center) position. The up limit switch is now set.
7. To test limit switch setting, make sure the 3-position switch is in the off (center) position. Press and release the up or down button on the wall switch to operate the screen.
8. Replace switch and cover plate on the wall.

   NOTE: If stop button is pressed, the wall switch will reverse direction. To correct this, press the stop button again. This will reset the switch. You will have to re-set both the up and the down limit settings.

   IMPORTANT NOTE: The wall switch is REQUIRED to make any limit switch adjustments, EVEN if a third party control system is used. Therefore, it is advised to wire the switch or provide a 4-conductor connection that is accessible.

Low Voltage Connections for 220V/240V Screens with Built-In Low Voltage Control

Control Panel

A control panel may be connected to the integrated 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.

Troubleshooting

Symptom	Cause	Solution
Screen will not operate. **Motor does not hum.**	Blown fuse.	Replace fuse.
	Tripped circuit breaker.	Reset circuit breaker.
	No power to operating switch or junction.	Check above. Tighten all loose wire connections. Correct any improper connections. Down Position Check for power across black and white leads. Up Position Check for power across red and white leads.
	Power at junction box Thermal overload tripped.	Let motor cool down for 15 minutes. Try again.
	Broken wire in the “down” or “up” position.	Check for continuity. Cut off old splice and reconnect.
	Defective motor, limit switch or capacitor.	Replace motor assembly. NOTE: Motor is a sealed assembly.
	Capacitor burned out.	Replace motor assembly.
Incorrect stopping position in downward direction.	Lost roller wrap.	See instructions below.
	“Down” limit switch out of adjustment.	Contact Da-Lite at 800-622-3737 or 574-267-8101.
Incorrect stopping position in upward direction.	Lost roller wrap.	See instructions below.
	“Up” limit switch out of adjustment.	Contact Da-Lite at 800-622-3737 or 574-267-8101..
Noise. **NOTE: Screen will operate with a low pitched hum.**	Gear noise.	Replace motor assembly.
Coasting.	Defective brake.	Replace motor assembly.

LIMITED ONE YEAR WARRANTY ON DA-LITE PRESENTATION PRODUCTS

Milestone AV Technologies LLC warrants certain Da-Lite branded products to the original purchaser only, to be free from defects in materials and workmanship for a period of one (1) year from the date of purchase by the original purchaser; provided they are properly operated according to Da-Lite's instructions and are not damaged due to improper handling or treatment after shipment from the factory.

This warranty does not apply to equipment showing evidence of misuse, abuse or accidental damage, or which has been tampered with or repaired by a person other than authorized Da-Lite personnel.

Da-Lite's sole obligation under this warranty shall be to repair or to replace (at Da-Lite's option) the defective part of the merchandise. Returns for service should be made to your Da-Lite dealer. If it is necessary for the dealer to return the screen or part to Da-Lite, transportation expenses to and from Da-Lite are payable by the purchaser and Da-Lite is not responsible for damage in shipment. To protect yourself against damage or loss in transit, insure the product and prepay all transportation expenses.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES AS TO FITNESS FOR USE AND MERCHANTABILITY. Any implied warranties of fitness for use, or merchantability, that may be mandated by statute or rule of law are limited to the one (1) year warranty period. This warranty gives you specific legal rights, and you may also have other rights, which vary from state-to-state. **TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, NO LIABILITY IS ASSUMED FOR EXPENSES OR DAMAGES RESULTING FROM INTERRUPTION IN OPERATION OF EQUIPMENT, OR FOR INCIDENTAL, DIRECT, OR CONSEQUENTIAL DAMAGES OF ANY NATURE.**

In the event that there is a defect in materials or workmanship of a Da-Lite product, you may contact our Customer Care Specialists at 3100 North Detroit Street, Warsaw, IN 46582, (574) 267-8101, (800) 622-3737.

IMPORTANT: THIS WARRANTY SHALL NOT BE VALID AND DA-LITE BRANDED PRODUCTS SHALL NOT BE BOUND BY THIS WARRANTY IF THE PRODUCT IS NOT OPERATED IN ACCORDANCE WITH THE DA-LITE WRITTEN INSTRUCTIONS.

Keep your sales receipt to prove the date of purchase and your original ownership.

DA-LITE®

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