



**ELECTROL**



**INSTRUCTION BOOK FOR  
DESIGNER ELECTROL**

**DA-LITE SCREEN COMPANY, INC.**

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## PRE-INSTALLATION

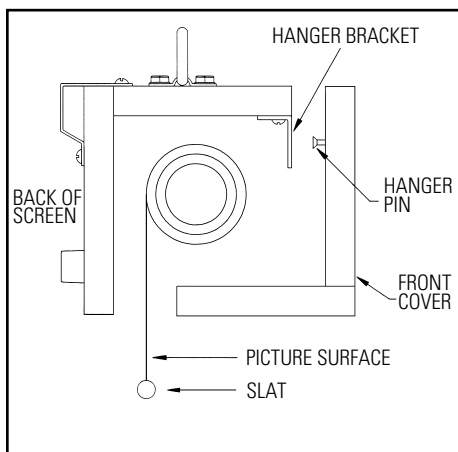
Before proceeding with the installation of the screen, please read the installation and operations instructions thoroughly!

**CAUTION!** Do not cut wrapping paper or tape with knife or any sharp tool. Remove by hand.

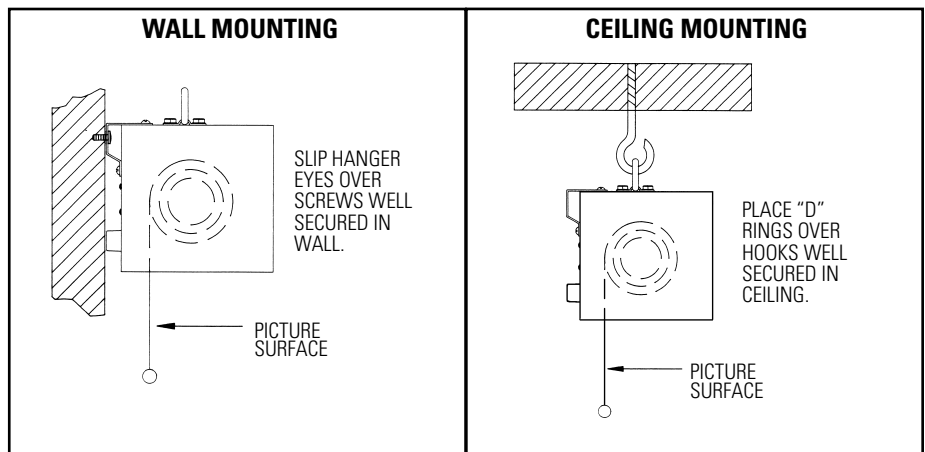
1. Carefully unpack the screen and remove the outer wrapping.
2. **Always handle screen in upright position.**
3. Remove the front cover of the screen from the back of the screen. Lift front cover up approximately 1/2" and pull away from back of screen. See Figure 1.
4. There are two methods of mounting the screen: suspended from ceiling and wall mounted. See Figure 2.

**NOTE:** Allow 1/2" above screen (when mounted) for front cover of screen installation and removal.

5. Picture surface is centered in case. Case extends 5-1/2" beyond surface on either end. Do not attach anything to screen slat on the bottom of the screen.



**FIGURE 1**



**FIGURE 2**

## INSTALLATION

1. Hang screen from ceiling or wall. Make sure screen is level. Use a carpenter's level and plum level.
2. Remove black tape from slat.
3. Install electrical hook-up that applies to your unit. Make sure to review your electrical installation checklist and wiring diagrams (included) for either 120 volt switch, 220/240 volt switch or DRC low voltage control. See Figure 3.

**NOTE:** Screen must be wired to conform to local and national electrical codes.

## SCREEN ADJUSTMENT

The screen surface travel is stopped automatically in the fully opened and closed positions by limit switches that are properly adjusted at the factory. The screen should not be adjusted for more or less drop.

Should the picture surface get out of adjustment and it be necessary to adjust picture surface drop, proceed in the following manner.

**NOTE:** Use a small flat screwdriver or allen wrench to make adjustments. See Figure 3.



**CAUTION!** When adjusting limit switches and testing, be prepared to stop screen quickly as serious damage may occur.

### More Screen Drop

1. Place operating switch in **"Down"** position.
2. When the screen stops, turn the white **"Down"** limit knob one-quarter turn counter-clockwise. Test by raising picture surface approximately two feet, then lower again. Repeat until proper screen drop has been attained.

### Less Screen Drop

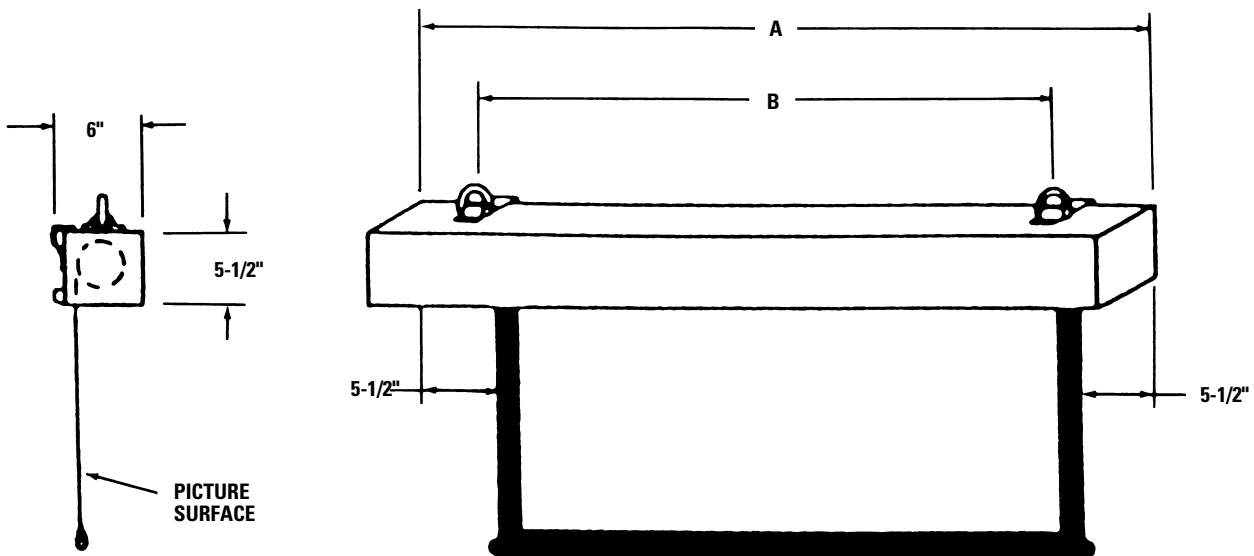
1. Raise picture surface approximately two feet above desired level.
2. Place operating switch in **"Off"** position.
3. Turn the white **"Down"** limit knob one-quarter turn clockwise. Test by lowering screen until it stops. Repeat until proper screen drop has been attained.

**NOTE:** The yellow **"Up"** adjustment knob controls where fabric stops in the case. Do not adjust bottom slat to come in contact with the fabric on roller.

### Replace Front Cover

Center front cover on back of case, raise about 1/2" above the back, push front cover into cover hanger brackets and lower into place.

## SCREEN ADJUSTMENT



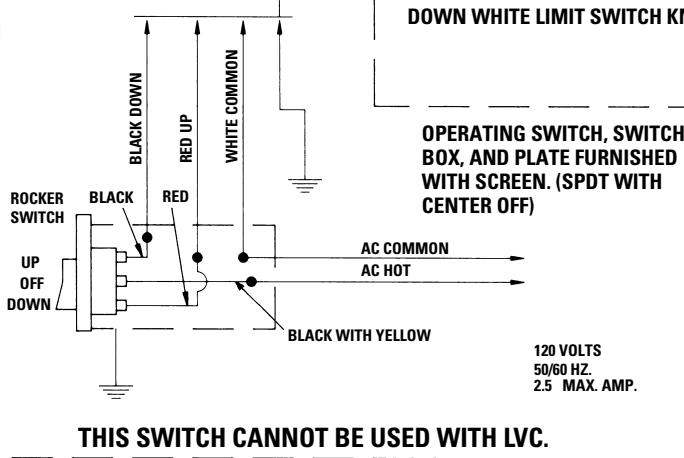
A = FABRIC WIDTH + 11"  
B = FABRIC WIDTH

**120V WIRING DIAGRAM**

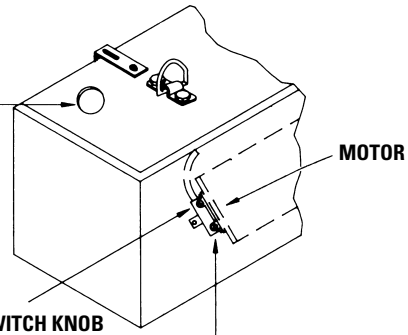
EXTERNAL WIRING TO BE COMPLETED BY INSTALLER.

TO JUNCTION BOX MOUNTED IN SCREEN CASE, IN WHICH INTERNAL WIRING TERMINATES IN WHITE, BLACK AND RED LEADS.

SIDE VIEW OF SWITCH AND BOX



NOTE: A single switch cannot be used to operate more than one screen. Contact the factory for further information.



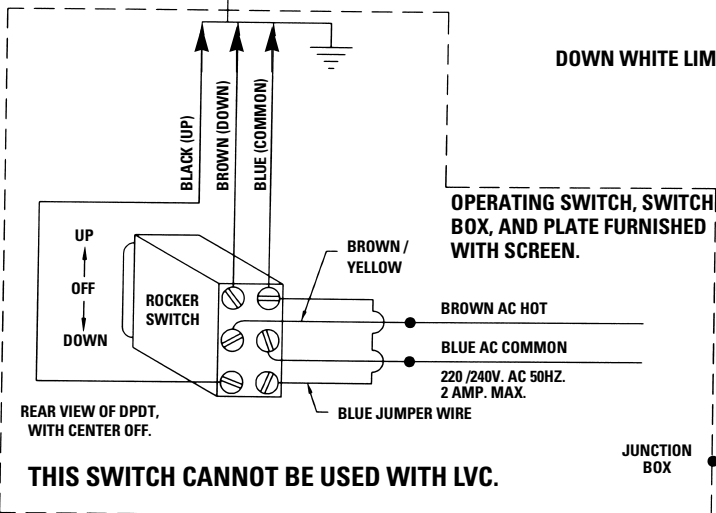
IN MULTIPLE CONTROL INSTALLATIONS THIS SWITCH IS REPLACED BY THE LOW VOLTAGE CONTROL, OPERATED FROM PUSH BUTTON STATIONS. SEE DIAGRAM Nos. 46967 AND 74425, AVAILABLE UPON REQUEST.

**FIGURE 3**

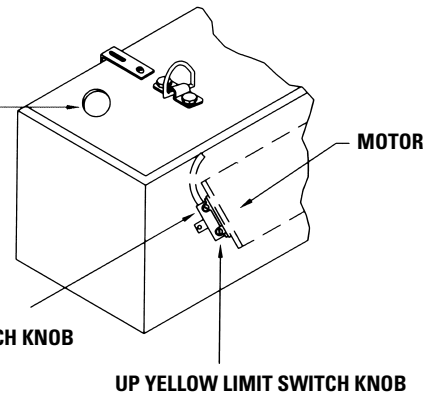
**220 / 240V WIRING DIAGRAM**

EXTERNAL WIRING TO BE COMPLETED BY INSTALLER.

TO JUNCTION BOX, MOUNTED IN SCREEN CASE, IN WHICH INTERNAL WIRING TERMINATES IN BLUE, BROWN AND BLACK LEADS.



NOTE: A single switch cannot be used to operate more than one screen. Contact the factory for further information.



NOTE: MUST BE WIRED TO CONFORM TO LOCAL WIRING CODE. THIS SWITCH CANNOT BE USED WITH L.V.C.

IN MULTIPLE CONTROL INSTALLATIONS THIS SWITCH IS REPLACED BY THE LOW VOLTAGE CONTROL, OPERATED FROM PUSH BUTTON STATIONS.

**FIGURE 3**

## TROUBLESHOOTING

SYMPTOM	CAUSE	SOLUTION
<p>1. Screen will not operate or will not go <b>"down"</b>. Motor does <b>not</b> hum.</p> <p>Motor <b>hums</b>.</p>	<p>(a) Blown fuse. (b) Tripped power supply circuit breaker. (c) <b>No power</b> to operating switch or junction.  <b>Power</b> at junction box. (d) Thermal overload tripped. (e) Broken wire in the <b>"down"</b> position. (f) Defective motor. (g) Temporary binding. (h) Motor burned out.</p>	<p>(a) Replace fuse. (b) Reset circuit breaker. (c) Check above. Tighten all loose wire connections. Correct any improper connections.  <b>"Down" Position</b> Check for power across black and white leads. (d) Let motor cool down for 15 minutes. Try again. (e) Check for continuity. Cut off old splice and reconnect. (f) Replace motor assembly. <b>NOTE: Motor is a sealed assembly.</b> (g) With power OFF, turn roller by hand to free binding. (h) Replace motor assembly.</p>
<p>2. Screen will not move <b>"up"</b>. Motor does <b>not</b> hum.</p> <p>Motor <b>hums</b>.</p>	<p>(a) Blown fuse. (b) Tripped power supply circuit breaker. (c) <b>No power</b> to operating switch or junction.  <b>Power</b> at junction box. (d) Thermal overload tripped. (e) Broken wire in the <b>"up"</b> position. (f) Defective motor. (g) Temporary binding. (h) Motor burned out.</p>	<p>(a) Replace fuse. (b) Reset circuit breaker. (c) Check above. Tighten all loose wire connections. Correct any improper connections.  <b>"Up" Position</b> Check for power across red and white leads. (d) Let motor cool down for 15 minutes. Try again. (e) Check for continuity. Cut off old splice and reconnect. (f) Replace motor assembly. <b>NOTE: Motor is a sealed assembly.</b> (g) With power <b>off</b>, turn roller by hand to free binding. (h) Replace motor assembly.</p>
<p>3. Incorrect stopping position in <b>downward</b> direction.</p>	<p>(a) <b>"Down"</b> limit switch out of adjustment.</p>	<p>(a) See installation instructions.</p>
<p>4. Incorrect stopping position in <b>upward</b> direction.</p>	<p>(a) <b>"Up"</b> limit switch out of adjustment.</p>	<p>(a) Adjust <b>"up"</b> limit switch. Turn clockwise to expose more fabric. See installation instructions.</p>
<p>5. Noise <b>NOTE: Screen will operate with a low pitched hum.</b></p>	<p>(a) Squeaking rubber end plug on motor. (b) Grinding due to foreign object in screen rubbing on roller or fabric. (c) Gear noise.</p>	<p>(a) Adjust roller to center of case. (b) Remove foreign object. (c) Replace motor assembly.</p>
<p>6. Coasting.</p>	<p>(a) Defective brake.</p>	<p>(a) Replace motor assembly.</p>
<p>7. Roller displaced from mounting bracket.</p>	<p>(a) Pin end slipped out of nylon bearing.</p>	<p>(a) Remove pin end mounting. Realign motor in tube. Re-attach pin end.</p>

## **LIMITED ONE YEAR WARRANTY ON DA-LITE PROJECTION SCREENS**

Da-Lite Screen Company, Inc. warrants its screens 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 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.

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. 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 Screen, you may contact our Customer Service Department at P.O. Box 137, Warsaw, Indiana 46581-0137 (219/267-8101) Toll Free (800/622-3737).

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

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