

*Instruction Book For  
Advantage Electrol*



*The*  
**POWER** *In*  
**PRESENTATION PRODUCTS**



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

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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.

## SAVE THESE INSTRUCTIONS

### PRE-INSTALLATION

1. Carefully unpack case from shipping carton. DO NOT unpack fabric and roller assembly yet.
2. Make sure to recheck measurement of case for proper installation clearance.
3. Remove any protective foam or tape from case.

### CASE INSTALLATION

1. Remove 2 screws to open junction box (Fig. 1).
2. Hang case and attach to support structure with bolts. See suggested methods of installation on page 4.
3. Tighten bolts until trim flange is flush with ceiling.  
**NOTE: For proper operation, screen assembly must be level after installation.**
4. Install electrical connections that applies to your unit. Make sure to review the wiring diagram for proper hook up.
5. Replace junction box cover and secure with 2 screws.

### SCREEN AND ROLLER ASSEMBLY INSTALLATION

1. Remove access door. First, remove the 2 screws from the ends (Fig. 1), be sure to support the door during this step to avoid injury. Then lift the door slightly and pull away from the edge of the case.
2. Carefully unpack screen and roller assembly. Leave packing paper on roller.
3. Next, install pin-end bracket into case by inserting at a slightly counter-clockwise angle until flush with top of case. Then twist bracket until perpendicular with case and is locked into bracket channels.
4. To install screen and roller assembly, insert the motor end into the rubber motor mount as shown in Fig. 2.
5. Finally, slide pin end bracket until pin is seated in rubber mount. Tighten 4 set screws to secure bracket.
6. Carefully remove paper and tape from roller assembly. **DO NOT** use a knife or sharp object to cut tape, you will damage the screen.
7. Complete electrical hook-up by snapping motor wire connector into case connector.
8. Test installation by running screen up and down a few times. Be prepared to stop screen.
9. Re-install access door. Procedure is reverse of removal.

 **CAUTION! Excessive continuous operation may cause the motor to overheat. If this happens, the motor will shut off until it cools to a normal operating temperature.**

## SCREEN ADJUSTMENT

Surface travel is stopped automatically in the fully opened and closed positions by limit switches that are properly adjusted at Da-Lite. Should it be necessary to adjust for more or less drop of picture, proceed in the following manner:

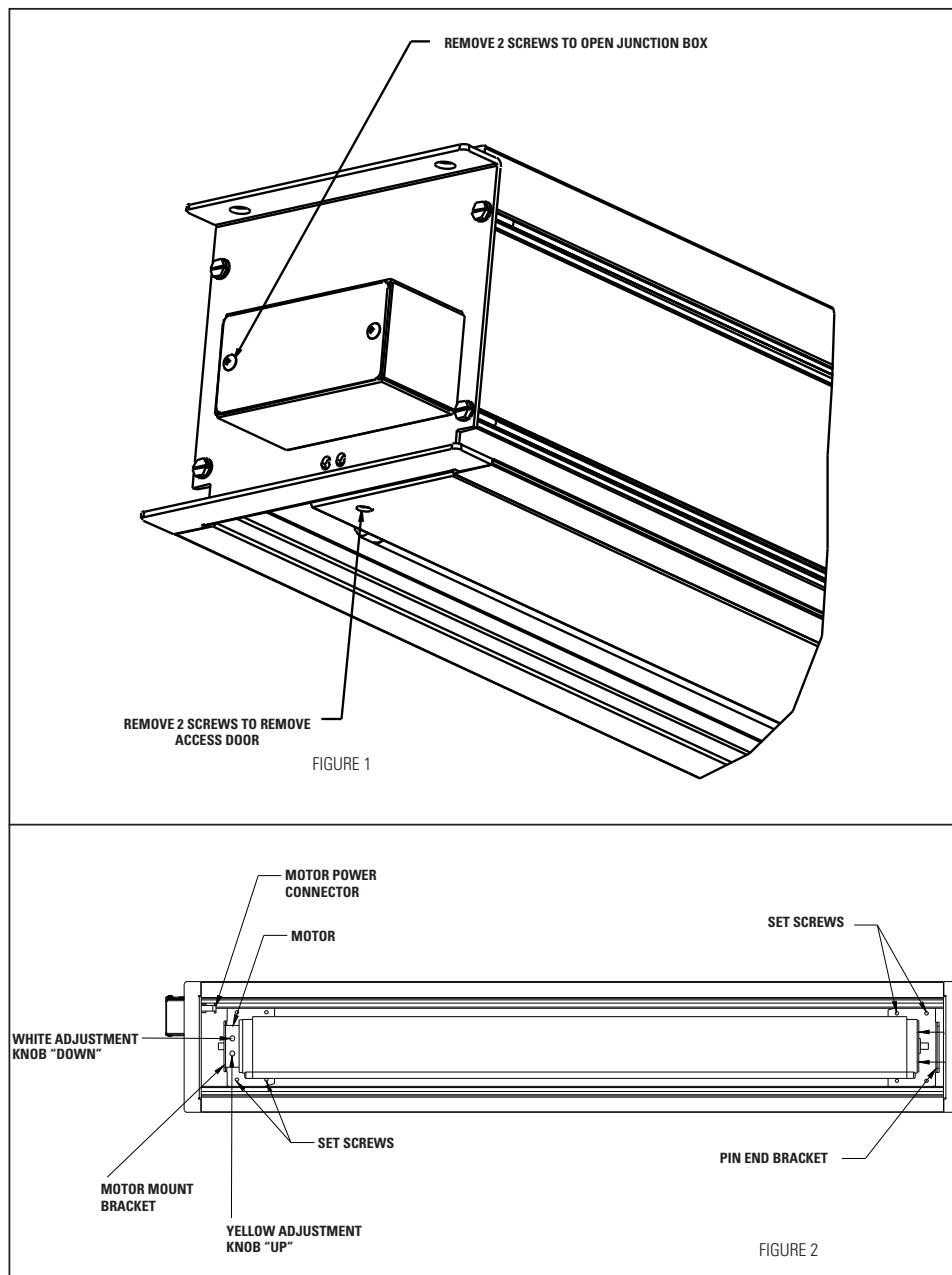
**NOTE:** Use a screw driver to make adjustments.

### MORE SCREEN DROP

1. Place operating switch in **"down"** position.
2. When the screen stops, turn the **"down"** limit knob No. 1 (Fig.2) one turn counterclockwise. Test by raising picture surface approximately two feet, then lower again. Repeat until desired picture surface position is attained.

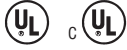
### LESS SCREEN DROP

1. Raise picture surface approximately two feet above desired level.
2. Place operating switch in **"off"** position.
3. Turn the **"down"** limit knob No. 1 (Fig. 2) one turn clockwise. Test by raising picture surface approximately two feet, then lower again. Repeat until desired picture surface position is attained.

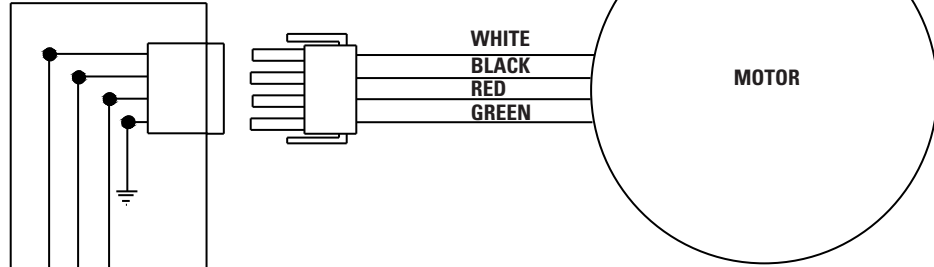


# ADVANTAGE ELECTROL INSTALLATION

## 120V WIRING DIAGRAM



JUNCTION BOX MOUNTED EXTERNALLY ON SCREEN CASE

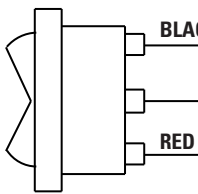


MOTOR

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

SPDT SWITCH WITH CENTER OFF

UP  
OFF  
DOWN



WHITE  
BLACK (DOWN)  
RED (UP)

AC (COMMON)

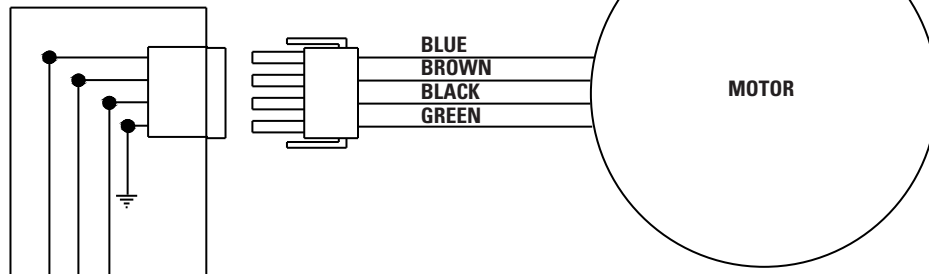
AC HOT  
120V. AC 60 HZ  
1 AMP.

NOTE: A SINGLE SWITCH CANNOT BE USED TO OPERATE MORE THAN ONE SCREEN. CONTACT THE FACTORY FOR FURTHER INFORMATION.

THIS SWITCH CANNOT BE USED WITH L.V.C.

## 220 / 240V WIRING DIAGRAM

JUNCTION BOX MOUNTED EXTERNALLY ON SCREEN CASE

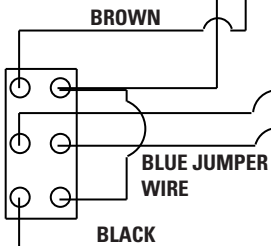


MOTOR

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

REAR VIEW OF DPDT, WITH CENTER OFF.

UP  
OFF  
DOWN



BROWN

BLUE  
BROWN (DOWN)  
BLACK (UP)

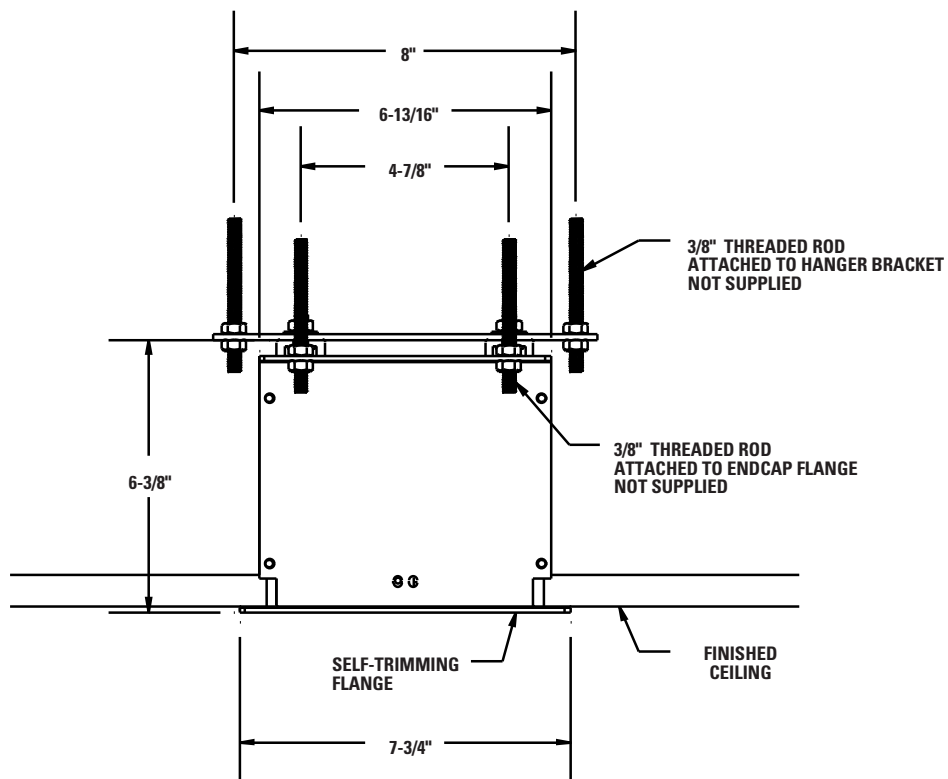
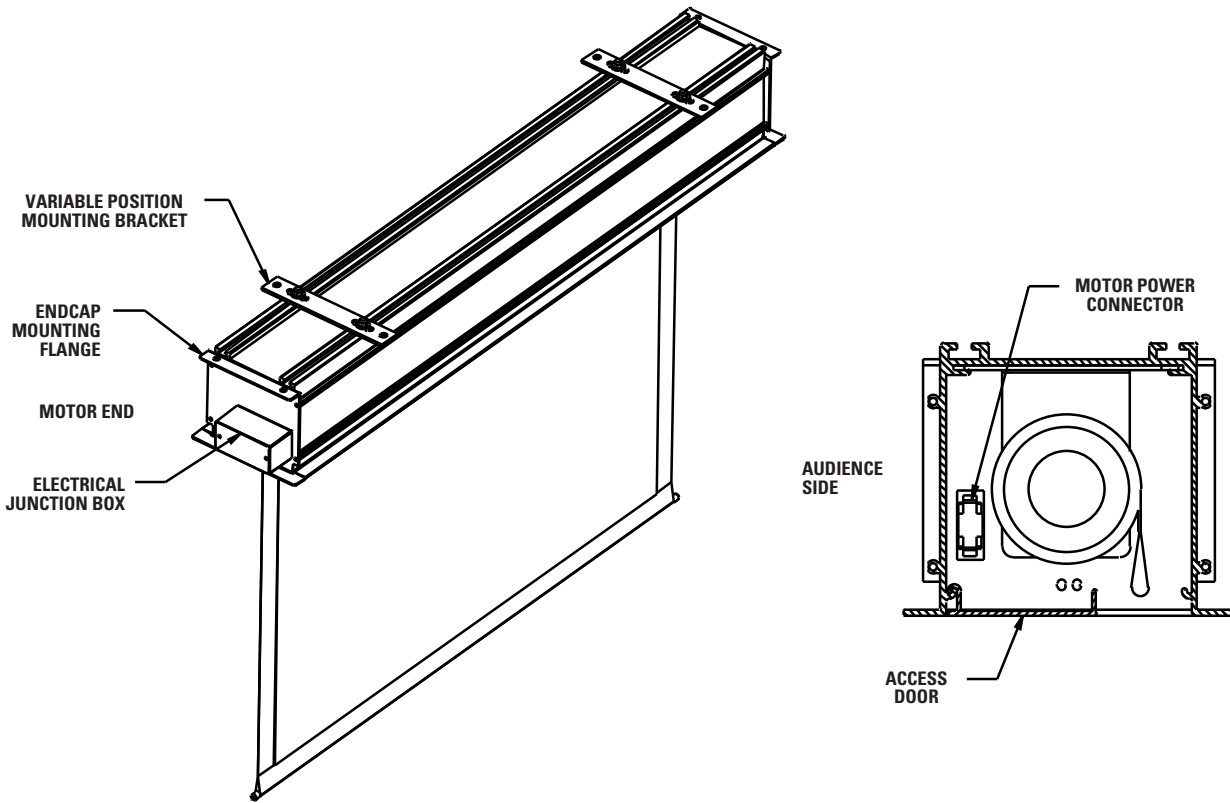
BROWN AC HOT  
220/240V. AC 50HZ. 2 AMP.

BLUE AC COMMON

NOTE: A SINGLE SWITCH CANNOT BE USED TO OPERATE MORE THAN ONE SCREEN. CONTACT THE FACTORY FOR FURTHER INFORMATION.

THIS SWITCH CANNOT BE USED WITH L.V.C.

# ADVANTAGE ELECTROL INSTALLATION



## 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.</p> <p>(b) Tripped circuit breaker.</p> <p>(c) <b>No power</b> to operating switch or junction box.</p> <p><b>Power at junction box</b></p> <p>(d) Thermal overload tripped.</p> <p>(e) Broken wire in the <b>"down"</b> position.</p> <p>(f) Defective motor, limit switch or capacitor.</p> <p>(g) Temporary binding.</p> <p>(h) Capacitor burned out.</p>	<p>(a) Replace fuse.</p> <p>(b) Reset circuit.</p> <p>(c) Check above. Tighten all loose wire connections. Recheck wiring. See installation instructions.</p> <p><b>"Down" Position</b></p> <p>Check for power across black and white leads.</p> <p>(d) Let motor cool down for 15 minutes. Try again.</p> <p>(e) Check for continuity.</p> <p>(f) Replace motor assembly. <b>NOTE: Motor is a sealed assembly.</b></p> <p>(g) With power <b>"off,"</b> turn roller by hand to free binding.</p> <p>(h) Replace motor assembly.</p>
<p>2. Screen will not move <b>upward.</b> Motor <b>does not</b> hum.</p> <p>Motor <b>hums.</b></p>	<p>(a) Blown fuse.</p> <p>(b) Tripped circuit breaker.</p> <p>(c) No power to operating switch or junction box.</p> <p><b>Power at junction box</b></p> <p>(d) Thermal overload tripped.</p> <p>(e) Broken wire in the <b>"down"</b> position.</p> <p>(f) Defective motor, limit switch or capacitor.</p> <p>(g) Temporary binding.</p> <p>(h) Capacitor burned out.</p>	<p>(a) Replace fuse.</p> <p>(b) Reset circuit breaker.</p> <p>(c) Check above. Tighten all loose wire connections. See above.</p> <p><b>"Up" Position</b></p> <p>Check for power across red and white leads.</p> <p>(d) Let motor cool down for 15 minutes. Try again.</p> <p>(e) Check for continuity.</p> <p>(f) Replace motor assembly. <b>NOTE: Motor is a sealed assembly.</b></p> <p>(g) With power <b>"off,"</b> turn roller by hand to free binding.</p> <p>(h) Replace motor assembly.</p>

## TROUBLESHOOTING

SYMPTOM	CAUSE	SOLUTION
3. Screen does not stop at correct position.	(a) Limit switch out of adjustment.	(a) See Screen Adjustment section.
4. Noise. <b>NOTE: Screen will operate with a low-pitched hum.</b>	(a) Squeaking, rubber end plug rubbing on motor. (b) Grinding. Foreign object in screen rubbing on roller or fabric. (c) Gear noise.	(a) Center roller in case. (b) Remove. (c) Replace motor assembly.
5. Coasting.	(a) Defective brake.	(a) Replace motor assembly.
6. Fabric hangs crooked.	(a) Screen not installed properly. (b) Fabric has backed up inside case.  (c) Fabric is damaged.	(a) Check for level and plumb. (b) Adjust <b>"down"</b> limit switch slowly until roller is exposed and wrinkle comes out, then readjust for proper drop. (c) Replace fabric.

## **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.