Removing Shipping Brackets

DO NOT OPERATE SCREEN BEFORE REMOVING THESE SHIPPING BRACKETS FROM THE SCREEN CASE

1. Loosen and remove fasteners from both bracket clamps that are attached to the screen case.
2. Run the screen DOWN to expose bracket clamp fasteners attached to the screen dowel.
3. Loosen screws holding bracket to dowel endcap enough to remove the bracket.
4. Re-tighten dowel endcap screws.

Hanging Screen

When locating viewing surface and checking clearance for screen operation, remember surface is centered in the length of the case. Regardless of mounting method used, the following points apply:
1. Mounting brackets are shipped attached to the case. Engage each bracket with top of housing as shown below and tighten set screws (see fig 1).
2. Screen should be positively and securely supported so that vibration or even abusive pulling on viewing surface will not weaken installation.

Please Note: A Hoisting Bracket is included on each end of the case to aid in overhead installation of the Ultimate Access case.

Electrical Connections

Screen operates on 110-120V, 60 Hz., 1.1 amp current draw. Junction box is located just above the bottom access panel at the left end of the screen.

Open the access panel/trap door for access to the junction box cover. (See bottom access panel/trap door opening and closing instructions below). Remove two (2) hex head screws that secure the cover to the junction box to expose the red, black, and white pigtail leads and the green ground wire per wiring diagram on page 3.

If optional low voltage control or video interface control is specified and factory installed, please refer to wiring diagrams on pages 3-4.

Screen is shipped with internal wiring complete and control switch(es) fully boxed. Wire to connect screen to switch(es) and switch(es) to power supply should be furnished by installer. Connections should be made in accordance with attached wiring diagram, and wiring should comply with national and local electrical codes.

All operating switches should be “off” before power is connected.

Bottom Access Panel/Trap Door Opening & Closing

A spring latch near the center of the case and at each end of the trap door holds this assembly closed. The center latch must be disengaged first. To gain access to inside of screen case, disengage spring latch at center, followed by the latches at each end. To disengage, slide the latch lever towards the center of screen case (see Fig. 2), then pull down slightly on the trap door assembly. The latch levers are somewhat concealed from view. Locate these with the trap door open by feeling for the vertical latch lever above the door about 3” from case endcaps and near the center of the case.

The assembly will swing down, opening about 135°. Pivot the prop arms at each end of the trap door assembly towards the ends of screen case. Prop arms engage with a hole in each endcap to hold the trap door assembly fully open. To close the trap door assembly disengage prop arms from endcaps and pivot these over the access panel. Swing the trap door assembly upward, stopping just before the latch levers hit the bottom flanges of the endcaps (and center of case where appropriate). Pull levers of latches towards center of screen case to allow the trap door assembly to be pivoted to its closed position. Make sure that the spring latch levers engage fully with case endcaps (and center of case where appropriate).

Caution: Beware of pinch points along closure.

If you have any difficulties installing or servicing your Ultimate Access Projection Screen, call your dealer or Draper, Inc.

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Limit Adjustments

Please Note: Screen limits are factory set for optimum performance of the screen. A procedure is outlined below for minor tweaks, but any adjustment of these limits may negatively affect the flatness of the screen surface and could also void the warranty. Please check with Draper prior to resuming screen limits.

**CAUTION:** Always be prepared to shut screen off manually when new adjustment is being tested. Screen may be severely damaged if viewing surface is allowed to run too far up or too far down.

**CAUTION:** Be sure all switches are in “off” position before adjusting limit switches.

The motor limit screws are normally located on the audience left of screen roller.

**“DOWN” LIMIT ADJUSTMENT**

To Reduce Screen Drop

1. Raise screen surface about 1’ above desired setting and turn off.
2. Turn the WHITE/DOWN limit screw clockwise (three screw turns = ½ roller revolution).
3. Test by running screen down and repeat steps 1 and 2 until desired position is reached.

To Increase Screen Drop

1. Run screen to the down limit.
2. With the down switch on, turn the WHITE/DOWN limit screw counterclockwise (3 turns of screw equals ½ roller revolution) to increase drop.
3. Test by running screen up about 1’ and back down to new down limit.
4. Repeat steps 2 and 3 until desired position is reached.

**“UP” LIMIT ADJUSTMENT**

Screen is Running Too Far Up

1. Lower screen surface about 1’ below desired setting and turn off.
2. Turn the YELLOW/UP limit screw clockwise (three screw turns = ½ roller revolution).
3. Test by running screen up.
4. Repeat steps 1 through 3 until desired position is reached.

Screen Needs to Run Up More

1. Run screen down about 1’ and turn off.
2. With the up switch on, turn the YELLOW/UP limit screw counterclockwise (three turns of screw = ½ roller revolution).
3. Repeat steps 1 and 2 until desired position is reached.

**CAUTION:** Do NOT allow the dowel to wrap up over the roller when the screen is running up! This could damage the screen.

Tab-Tension Adjustment Procedure for Ultimate Access/Series V

Draper’s Tab-Tensioning System is factory-set, and under normal circumstances will not require field adjustment. If, however, you notice wrinkles, waves or other indications that the tensioning cables need to be adjusted, follow the procedure below.

1. Determine which side requires adjustment.
2. Secure dowel with one hand.
3. Using Philips-head screwdriver, depress spring-loaded adjustment screw and slowly turn CLOCKWISE TO INCREASE tension, or COUNTER-CLOCKWISE TO RELEASE tension. The screw adjusts in 60° increments. Adjust only one increment (60°) turn at a time.

   - ① Secure dowel with one hand.
   - ② Using Phillips-head screwdriver, depress spring-loaded adjustment screw and slowly turn CLOCKWISE TO INCREASE tension, or COUNTER-CLOCKWISE TO RELEASE tension. The screw adjusts in 60° increments. Adjust only one increment (60°) turn at a time.

   - ③ If problem is not corrected, leave screen in position for 24 hours to allow surface material to stretch into position.
   - ④ If problem still is not corrected, repeat steps 2 and 3.
**Case Dimensions**

**Internal LVC-IV - Single or Multiple Projection Screen Wiring Diagram**

**External LVC-IV - Single or Multiple Projection Screen Wiring Diagram**

*For minimum length of ceiling cutout: subtract 1¼" from case length (measured from outer edge of flanges).

*For minimum width of cutout (front to back): see case width dimensions below.

*Leveling bracket is used to level the case and should NOT be used to support the weight of the unit.

The leveling bracket is riveted to the side of the case and remains stationary. Hardware used for leveling provided by others. Leveling bracket is not adjustable.

**SERIES V**

- **Viewing Surface**
  - 5/8"
  - 211/16" 25/8"

- **Viewing Surface**
  - 73/8" 97/8" 11/8"

**SERIES E**

- **Viewing Surface**
  - 5/8"
  - 73/8" 97/8" 11/8"

**OVERALL CASE LENGTH**

- 18" 2"
Standard Wiring Diagrams

**Single Station Control**

Internal Screen Wiring
- White (Common)
- Black (Down)
- Red (Up)
- Green (Ground)
- Dashed wiring by electrician

Control switch
- Blue
- Red
- Black

Location of key
- Operated on-off switch if furnished

To 110-120V Line

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**Multiple Station Control**

Internal Screen Wiring
- White (Common)
- Black (Down)
- Red (Up)
- Green (Ground)
- Dashed wiring by electrician

Cap off with wire nut and tape

- Red
- Black
- Blue

Single gang box by others
- Min. 4" x 2½" x 1½" deep.

Location of key
- Operated on-off switch if furnished

To 110-120V Line

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Please Note:
Do not wire motors in parallel.