Installation/Operating Instructions
220V Premier Electric Projection Screen by Draper

These Installation/Operating Instructions are available in the official language of the country where you purchase the product. Please contact your distributor to request a copy. 

Vous pourrez demander les instructions d’installation et d’opération traduites dans la langue officielle du pays où vous achetez le produit. Veuillez demander à votre distributeur.


Caution

1. Read instructions through completely before proceeding.
2. Follow instructions carefully. Installation contrary to instructions invalidates warranty.
3. Screen should be accessible for complete removal should fabric become damaged or should other service be required.
4. Screen should be installed level (using a carpenter’s level).
5. Nothing should be fastened to screen dowel or viewing surface.
6. Operating switch(es) packed separately in screen carton. Do not discard with packing material.
7. Screen operates on 220V AC, 50 Hz., 1 ph. current.

NOTE: Screen has been thoroughly inspected and tested at factory and found to be operating properly prior to shipment.

These instructions are meant as a guide only. They do not imply any responsibility on the part of Draper, Inc. for improper installation or faulty workmanship at the job site.

Hanging Screen

General: When locating viewing surface and checking clearance for screen’s operation, remember surface is centered in case. Handle case carefully to protect finish. Regardless of mounting method, screen should be positively and securely supported to prevent vibration or even abusive pulling on the viewing surface will not cause case to work loose or fall. Installer must insure that fasteners used are of adequate strength and suitable for mounting surface.

Suspended Installation:
Suspend screens from holes in endcaps as shown. S-hooks, chains (or cable) and turnbuckles should be provided by installer. “S” hooks should be crimped for additional safety. Chains should be attached to beams or other structural members. Turnbuckles should be adjusted so screen hangs level.

Wall Installation:
Mount screen through holes in back of endcaps as shown. Installer should furnish screws, toggle bolts, molly bolts, nylon or lead anchors as required.

Recessed Installation:
Recess should permit access for removal of screen if necessary. Screen may be mounted as in suspended or wall installation. Optional Ceiling Opening Trim Kit also available; see diagram on page 2 and separate instruction sheet (included with Ceiling Opening Trim Kit).

Electrical Connections
Screen operates on 220V AC, 50 Hz., 1 ph. current. Junction box located inside left endcap and cover plate is secured to endcap with two screws. Junction box contains terminal strip, per wiring diagram on reverse. Screen shipped with internal wiring complete and control switch(es) fully boxed. Wire connecting screen to switch(es) and power supply should be furnished by installer. Connections should be made in accordance with wiring diagram; wiring should comply with national and local electrical codes.

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

Operation

CAUTION—Important Instructions—The shipping support brackets must be removed from each end of dowel during initial operation before screen is operated in UP direction. After screen is installed, run viewing surface DOWN to access screws that hold brackets to dowel. Loosen hex head screw, remove bracket and retighten screw at each end of dowel. See page two for diagram of bracket. Cycle viewing surface down and up several times to confirm satisfactory operation. If viewing surface does not operate properly, turn power off and check electrical connections.

220V Single Station Control—3-position up-off-down switch permits operation to be stopped at any point. Factory adjusted limit switches automatically stop screen when fully down or fully up.

220V Multiple Station Control—Switches are similar in appearance to 220V Single Station Control. Screen stops when switch is released and may be restarted in either direction. Factory adjusted limit switches stop screen automatically when fully up or fully down. Installer should incorporate all-pole disconnect in the fixed wiring.

Key Operated Switching—Two kinds of key-operated switches are optionally available with this unit. The key-operated power supply switch controls power to the screen and switches. When it is “off”, the switches will not operate screen. Key may be removed from the switch in either “on” or “off” position. A three-position key switch permits the screen to be operated directly by key. In this case, the operator must always have a key.

RS232/Ethernet—Serial communication and network communication optionally available with wall switches, RF or IR remote.

Limit Adjustments (Standard/Quiet Motors)
Tools needed: Flashlight, small flathead screwdriver/Allen wrench (4mm or 1/8”).

Screen settings have been factory set as ordered and should not normally require further adjustment. However, if you find it necessary to adjust for more or less viewing area, proceed as follows. 

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. When running up, the dowel should never wrap over the roller. When run to the down limit, a minimum of 1¼ wraps of fabric must remain on the roller.

The motor limit switches are normally located on the audience left of screen roller, and the viewing surface rolls off the back of the roller. If the viewing surface is coming off the front of the roller (motor on left), or the motor is on the audience right of the screen roller (with viewing surface rolling off the back), reverse the below instructions.

DOWN LIMIT ADJUSTMENT

To Reduce Screen Drop
1. Raise screen surface about 1” above desired setting and turn off.
2. Run the DOWN limit screw (I) 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 DOWN limit screw (I) counterclockwise (three 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.

CAUTION: At least 1¼ wraps of fabric must remain on the roller when screen is at the down limit!

UP LIMIT ADJUSTMENT

Screen is Running Too Far Up
1. Lower screen surface about 1” below desired setting and turn off.
2. Run the UP limit screw (II) 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 UP limit screw (II) counterclockwise (three turns of screw equals 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.

Please Note: Instructions for adjusting Draper’s Tab-Tension System are on page 2.

If you encounter any difficulties installing or servicing your Premier screen, call your dealer or Draper, Inc. Spiceland, Indiana, U.S.A., 765/987-7999 or fax 765/987-1699.
**Tab-Tension Adjustment Procedure**

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.

*Caution: Do not touch or bend surface.*

3. Using Phillips-head screwdriver, depress spring-loaded adjustment screw and slowly turn clockwise to tighten tension, or counterclockwise to loosen tension. The screw adjusts in 1/4 turn increments. Adjust only one increment (1/4 turn) at a time.

4. If problem is not corrected, leave screen in position for 24 hours to allow surface material to stretch into position.

5. If problem still is not corrected, repeat steps 2 and 3.

**Installation with Ceiling Trim Kit**

- **Targa or Premier Case**
- **Back**
- **Ceiling Tile**

**Other Types of Installation**

- **Suspended**
  - Appropriate hardware provided by installer.
- **Wall**
  - Appropriate hardware provided by installer.

If using “S” Hooks (by others), be sure to crimp both ends of the “S” Hooks.

**220v Wiring Diagrams**

**Single Station Control**

- CE Approved
- Terminal strip in junction box at left end of screen
- Dashed wiring by electrician
- Neutral
- Hot
- 230V, 50 Hz.

**Multiple Station Control**

- Not CE Approved
- Terminal strip in junction box at left end of screen
- Cap off with wire nut & tape
- Red
- Blue
- Black
- 230V, 50 Hz.

**Low Voltage & Wireless Control**

- Terminal strip in junction box at left end of screen
- Red-to screen (directional)
- Black-to screen (directional)
- Blue-common
- Brown-hot to 230V AC
- Green-ground
- All-Pole Disconnect by others
- 24V DC
- MC1

**See separate Serial Communication-RS232 Instruction sheet for enabling RS232 with the MC1.**

**Case Dimensions**

- 133 mm
- 46 mm
- 150 mm
- 25 mm
- 24 mm
- 22 mm dia.
- Electrical connection hole
- Mounting hole
- 54 mm

**Other Types of Installation**

- **Suspended**
  - Appropriate hardware provided by installer.
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  - Appropriate hardware provided by installer.

If using “S” Hooks (by others), be sure to crimp both ends of the “S” Hooks.