Installation/Operating Instructions Signature/Series E & V Electric Projection Screen by DRAPER

Caution

- ① Read instructions through completely before proceeding.
- ② Follow instructions carefully. Installation contrary to instructions invalidates warranty.
- ③ Entire bottom of screen case should be unobstructed to permit proper operation of automatic trap door, and access to bottom panel for making electrical connections or servicing.
- 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) is packed separately in screen carton. Do not discard with packing material.
- ⑦ Screen operates on 110-120v, 60 Hz. 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 jobsite.

Hanging Screen

When locating viewing surface and checking clearance for screen's operation, remember surface is centered in case.

Screen is normally recessed above ceiling and may be installed in a variety of ways. See typical installations detailed on back of this sheet. Regardless of mounting method used, the following points apply:

- ① Screen should be positively and securely supported so that vibration or even abusive pulling on viewing surface will not weaken installation.
- ② Installer must insure that fasteners used are of adequate strength and suitable for the mounting surface chosen.
- ③ Entire bottom of case must be readily accessible after installation is complete.
- ④ Hinge that connects bottom panel and automatic trap door of screen must be permitted to operate freely. Front and back of case must be straight not forced to warp or bow. Hinges must be free from mastic or paint buildup, and doors must be unobstructed by ceiling tiles.
- ^⑤ Do not use screen case to support adjacent sections of ceiling.
- If trim pieces must be attached to case, do not permit screws to protrude through ¼" wall of case. Do **not** attach trim with nails.
- $\ensuremath{\mathbb{O}}$ If case is painted, slots on bottom of case should be shielded to protect viewing surface from paint splatters or overspray.
- ⑧ Do not seal unit in ceiling until electrical connections have been made and screen has been operated successfully.

Electrical Connections

Screen operates on 110-120v, 60 Hz. current.

Junction box is located just above the access plate at right or left end of screen. (See chart on back of this sheet.) Access plate is held closed with flathead screws and may be opened with a Phillips screwdriver. (*Automatic trap door does not need to be opened to make field connections.*) Removal of access plate exposes red, black and white pigtail leads and green internal ground wire per wiring diagram attached.

Screen is shipped with internal wiring complete and control switch(es) fully boxed. Wire connecting 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.

Operation

CAUTION—Important Instructions—Signature/Series V—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. Signature/Series E—The protective paper wrapping around the viewing surface must be removed before the screen is operated in down direction. Cycle viewing surface down and up several times to confirm satisfactory operation. If viewing surface or trap door do not operate properly, turn power off and free trap door and/or check electrical connections. When screen is first operated, **be cautious!** If automatic trap door does not open immediately up into screen case when switch is flipped "down", return switch to "off" and free trap door and/or recheck electrical connections before proceeding. Cycle unit down and up several times to confirm satisfactory operation.

110-120v 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.

110-120v Multiple Station Control—Switches are similar in appearance to 110-120v 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.

24v Control—Three-button UP-STOP-DOWN switches stop at any point desired, operate in any sequence. Factory adjusted limit switches automatically stop screen when fully up or fully down. Wireless controls—whether infrared or radio frequency—interface with the low voltage control box. (See wiring diagram on reverse.)

Key Operated Switching—Two kinds of key-operated switches are optionally available with this unit.

- ① 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.
- ② A three-position key switch permits the screen to be operated directly by key. In this case, the screen's operator must always have a key.

Adjustments

Screen has been factory set and should not normally require further adjustment. However, if you desire to change the "up" and "down" stopping positions, proceed as follows:

CAUTION: Be sure all switches are in "off" position before adjusting limit switches. 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.

Adjusting "Fully Up" Position—"Up" stopping position may be adjusted by turning the yellow limit switch adjustment socket. The yellow socket is located on left end of screen roller and is accessible to a screwdriver/Allen wrench (4mm or $5/_{32}$ "). Turning the socket counterclockwise will allow the viewing surface to retract farther into the case. Turning it clockwise will cause the surface to stop farther out of the case. One full revolution of the socket will alter the stopping position of the viewing surface by approximately $11/_2$ ". **Adjusting "Fully Down" Position**—"Down" stopping position may be adjusted by turning the white limit switch adjustment socket. The white socket is located on the left end of screen roller and is accessible to a small flat screwdriver/Allen wrench (4mm or $5/_{32}$ "). Turning the socket counterclockwise will allow the viewing surface to run farther down. Turning it clockwise will shorten the viewing surface be unrolled enough to expose any part of screen roller.

Please Note: Instructions for adjusting Draper's Tab-Tension System for Series V screens are on page 2.

411 S. Pearl St., Spiceland, IN 47385 USA ■ 765-987-7999 ■ fax 765-987-7142 e-mail draper@draperinc.com ■ www.draperinc.com Copyright © 2002 Draper Inc. Form SignatureE&V_Inst02 Printed in U.S.A.

To 110-120V Line



If you encounter any difficulties installing or servicing your Signature/Series E or V, call your dealer or Draper, Inc., Spiceland, Ind., (765) 987-7999, fax (765) 987-7142, or e-mail draper@draperinc.com.