

ShadowBox Clarion

Permanently tensioned projection screen with truly flat viewing surface for sharper image quality

INSTRUCTIONS INSTALLATION & OPERATION

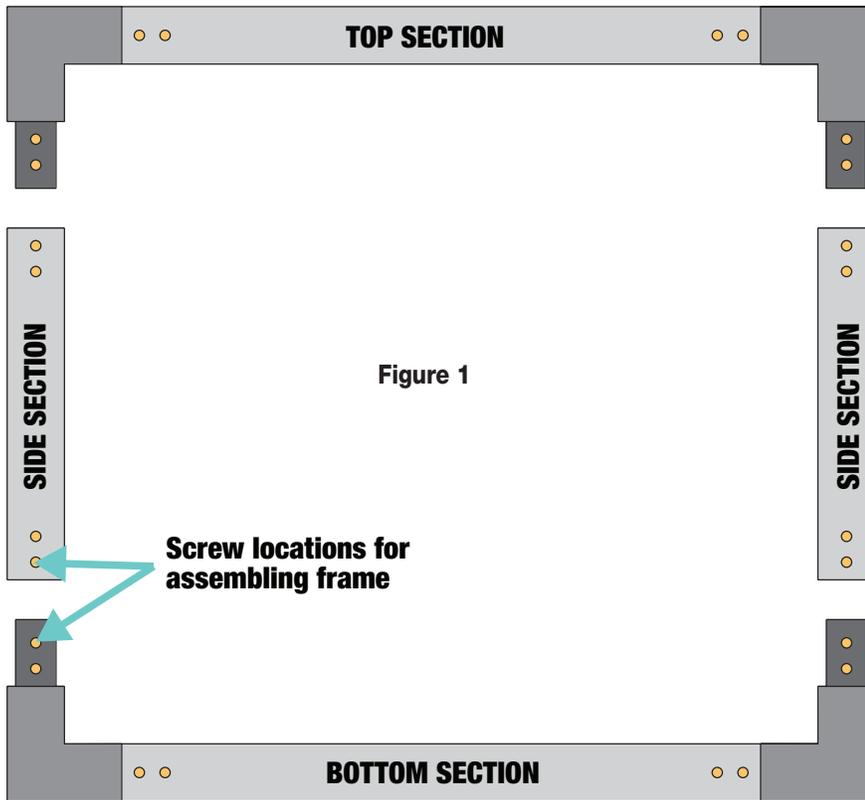


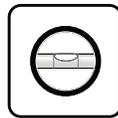
Figure 1

Overview - Prepare for Installation

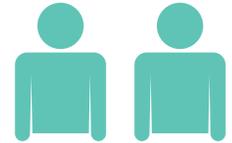
1. Remove all pieces from the carton.
2. Lay out the sections of the frame by matching up the numbers located on the back of the frame sections. Snaps should be facing up.
3. Slide the ends of the castings from the top section into the side frame sections. Fasten these together using the 1/4"-20 machine screws provided.
4. Repeat this for bottom section of frame (Fig. 1).

Please Note: Due to the unknown location of wall studs, or other supporting members, the mounting holes have not been predetermined.

TOOLS REQUIRED



PERSONNEL REQUIRED



⚠ CAUTION ⚠

Read and understand all warnings (p. 2) before beginning installation.

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If you have any difficulties installing or servicing your Clarion screen, call your dealer or Draper, Inc.

PLEASE READ - Installation Information

CAUTION: Installer must provide adequate attachment hardware and anchors as required. Installer must also ensure that structure is of adequate strength.

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 surface 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 frame or viewing surface.
6. Ensure all parts are present.
7. Regardless of mounting method, screen should be positively and securely supported so that vibration or even abusive pulling on viewing surface will not cause case to loosen or fall. Installer must ensure that fasteners used are of adequate strength and suitable for mounting surface chosen.
8. Draper recommends using two people for assembly and installation. When lifting assembled screen, do not lift at only one corner; lift at both corners. Lifting by one corner could result in damage to the screen frame, especially on large screens.
9. The ideal temperature range for assembling permanently tensioned screens to prevent damaging the surface is 68° - 78° F (20° - 26° C). Assembling below recommended temperatures may damage surface and void warranty.
10. Use extreme care when handling TecVision surfaces. To prevent damaging the TecVision viewing surface, Draper strongly recommends using the provided white gloves.

Please Note: Custom products/installations may not be reflected by this document. Call Draper, Inc. with any questions about product installation.

PLEASE READ - Safety Information

Important Safety Information



WARNING



Important Safety Information

Improper installation and use of the PRODUCT NAME can result in serious injury or death. Primarily, injuries can occur if the unit falls due to imprecise installation, mishandling of the shade during installation or installation on an insufficient wall or ceiling structure. Please use extreme care.

1. Please read the following installation guidelines thoroughly and follow them carefully. Failure to do so may cause product to fall or otherwise fail, and could result in serious injury.
2. Installation and calibration of the unit should only be performed by an authorized, qualified, and experienced professional.
3. Do not affix the unit to wall or ceilings that have inadequate strength to permanently hold the unit during use. It is the owner's and installer's responsibility to confirm the wall or ceiling to which the unit attaches is sufficient to permanently hold the weight and stress loads of the unit at all times. Draper, Inc., is not responsible for improper installation, application, testing or workmanship related to the product at place of installation.
4. It is the installer's responsibility to make sure appropriate fasteners are used for mounting.
5. All brackets and other hardware must be installed level. Unit must be level and square.
6. Never leave the area while operating the system during installation, maintenance, or normal operation, unless it is secure and safe.
7. Before testing or operation, carefully inspect the entire area of the system and areas underneath the shade to be sure no persons or objects are in the area.
8. During testing or operation, carefully watch the surrounding area for any potential safety concerns including nearby persons or objects.
9. After installation, the entire system should be carefully tested to ensure safe and normal operation. Extreme care should be taken during testing to remain clear of moving parts to avoid possible injury.
10. Operation of system should be performed only by authorized and qualified personnel, who have been trained in the safe and effective operation of the system and understand its safety features.
11. The safety features of the system should never be disabled, bypassed, or overridden. The system should not be operated until all safety features are properly and completely installed, calibrated, and tested.
12. System may need to comply with local, state, or district rules and regulations, in particular when installed in schools. All applicable rules and regulations should be reviewed before installation and use.
13. Failure to precisely follow installation guidelines invalidates all warranties.
14. Custom products/installations may not be reflected in this manual. Call Draper, Inc., if you have questions regarding your installation.

Before Beginning Installation

1. Look for any job site conditions that could interfere with installation or operation of the system.
2. Read carefully and be sure to understand all installation instructions and all related operations manuals. These instructions are intended to serve as a guide for the installer and owner. They should be followed closely and combined with the expertise of experienced qualified installers. Draper, Inc., is not responsible for improper installation, application, testing, or workmanship related to the product at place of installation. Please retain all instructions for future use.
3. Open cartons lengthwise.
4. Locate and lay out all pieces.
5. Inspect all boxes to make sure you have received the proper parts. Controls may be shipped separately, or in same carton.
6. If you have any difficulties with installing, servicing, or operating your system, call your dealer or Draper, Inc., 765-987-7999.

Section 1 - Preparing and Installing Wall Brackets

Please Note: Due to the unknown location of wall studs, or other supporting members, the mounting holes have not been predetermined.

1. Determine the desired horizontal distance between the wall brackets.

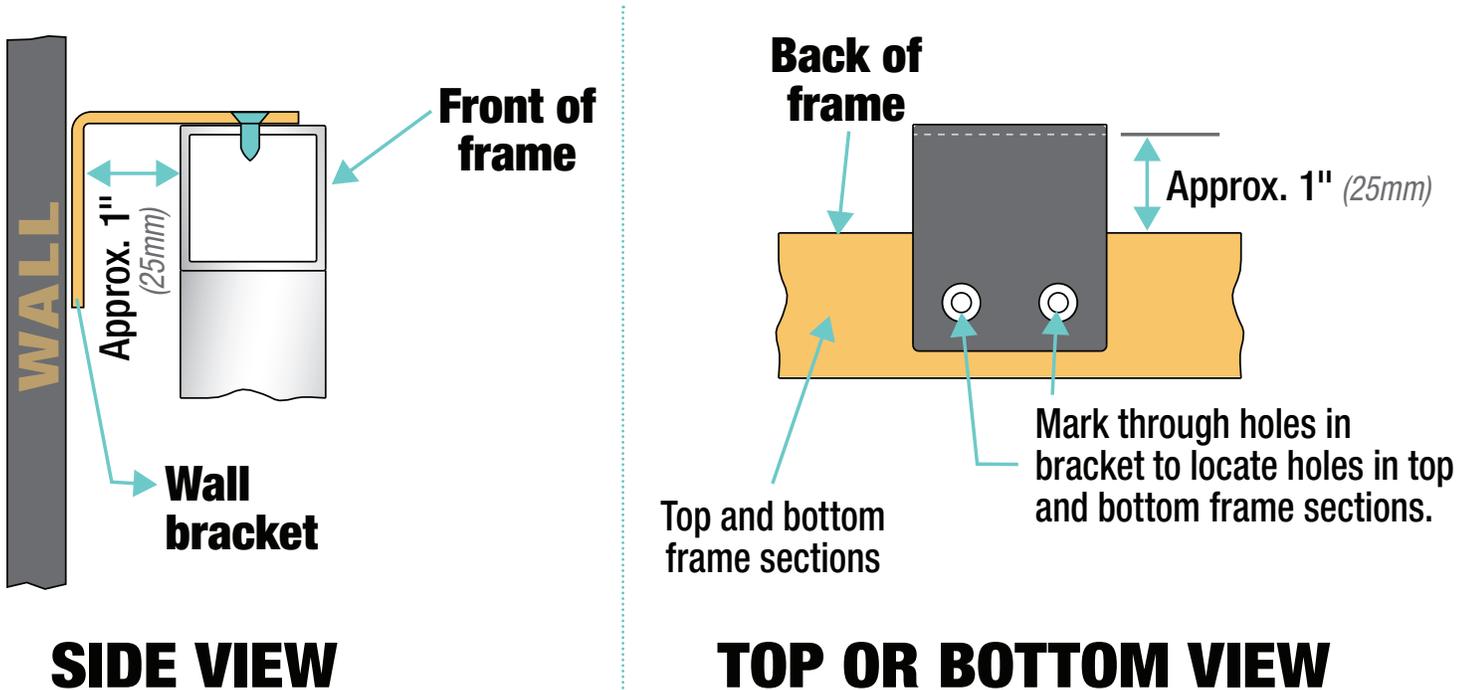
CAUTION: Brackets should not be located within 6" of the outside frame sections or more than one quarter of the overall frame width in from the outside frame sections.

2. Mark this horizontal distance on the top side of the top frame section and on the bottom side of the bottom frame section.
3. Position the wall bracket so the inner edge of the bracket is approximately 1" (25mm) from the back edge the frame (Fig. 2). This places the mounting hole in the center of the frame.
4. Mark the frame through the holes and repeat for all other wall brackets.
5. Centerpunch hole locations and drill through the frame wall using a No. 26 ($\frac{3}{64}$ ") drill bit.

Please Note: Only drill through **one** side of the frame sections. Holes may need to be deburred.

Please Note: All mounting holes must be drilled the same distance from the back edge of the frame, to ensure that all four sides of the screen will be the same distance from the wall.

Figure 2



Section 2 - Installing Wall Brackets

CAUTION: Installer must provide adequate attachment hardware and anchors as required. Installer must also ensure that structure is of adequate strength.

1. Attach wall brackets to the frame using the No. 10 sheet metal screws (*provided*).
2. Hold entire frame against the wall at desired location and mark location of wall brackets on the wall.
3. Then remove all wall brackets from the frame and mount them on the wall.
4. Installers should wash hands before touching the viewing surface. **Use extreme care when handling TecVision surfaces.** To prevent damaging the TecVision viewing surface, Draper strongly recommends using the provided white gloves.
5. Remove the viewing surface from the cardboard tube. Unroll the surface from the small cardboard tube.

Please Note: Be extremely careful to protect the viewing surface by making sure it is unrolled onto a clean cloth or paper.

6. Place the frame flat onto a clean surface with snaps facing up. Position the viewing surface gently on the frame with viewing side facing the snap side of the frame. Make sure that the top edge of the surface matches the top edge of the frame. Snap the two snaps at each corner first and then the remaining snaps.
7. Carefully position the screen between the wall brackets and fasten, using the No. 10 screws provided (*Fig. 3*).

Figure 6

