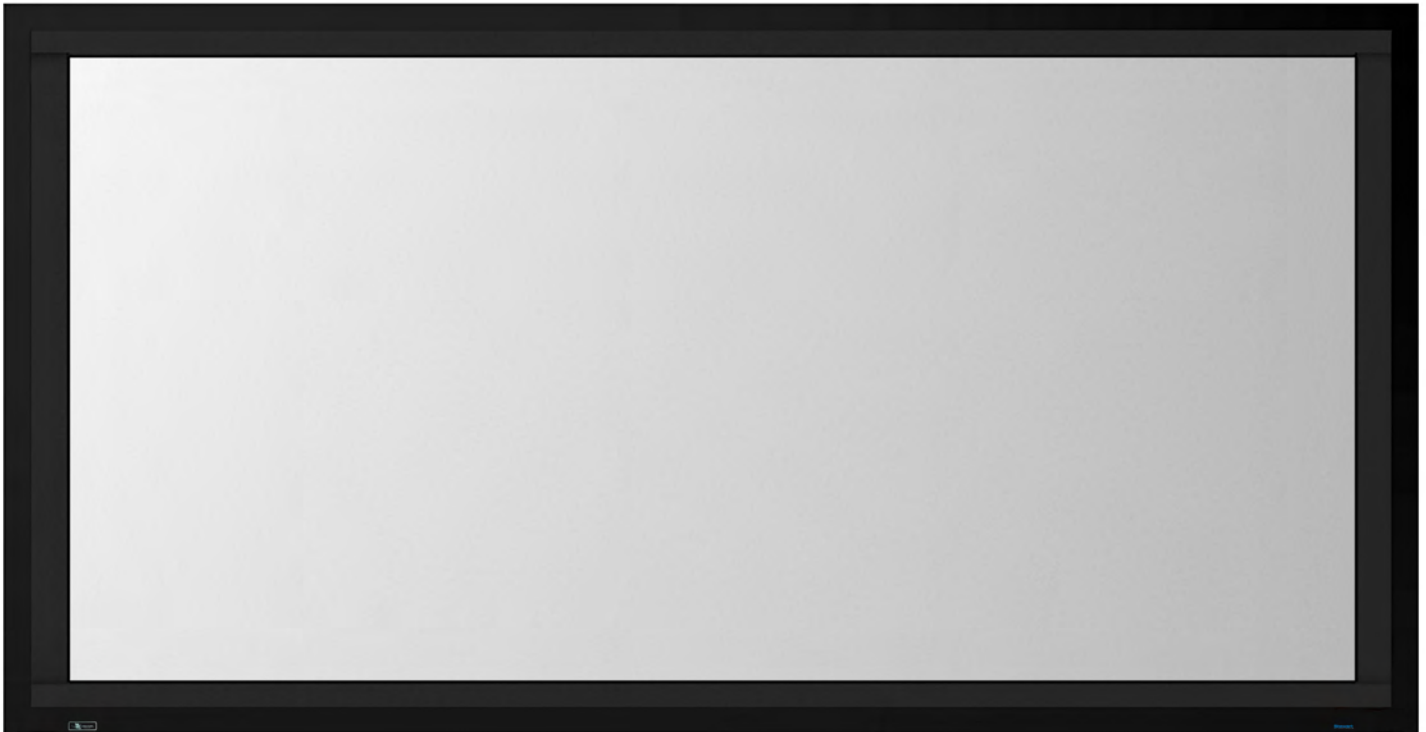


Director's Choice EVO

Four-Way, Continuously Variable, Vertical Masking Screen System



Stewart
F I L M S C R E E N

The Reference for Stunning™

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Director's Choice EVO

OWNER'S MANUAL

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TO THE OWNER

Congratulations on purchasing the finest optical viewing screen in the world.

Your handcrafted, Director's Choice EVO projection screen has been carefully inspected to ensure you will have an optimal viewing experience that will last many years. Please take a moment to review this manual. It will guide you through the installation and the operation of your screen and will also provide you with detailed instructions on how to care for your screen's viewing surface.

From all of us at Stewart Filmscreen, we would like to thank you for choosing the Director's Choice EVO. Should you have any questions, please don't hesitate to contact our customer service department. We're here to help.

A handwritten signature in black ink, appearing to read 'MS', with a long horizontal line extending to the right.

Mary Stewart
CEO & Owner

ABOUT DIRECTOR'S CHOICE EVO

Stewart Filmscreen's Director's Choice EVO offers a premium viewing experience. The newly redesigned thin frame allows the screen to adjust to any aspect ratio, which means you will have the best formatted image every time. With your choice of Stewart Filmscreen's world-renowned premium screen materials, this screen is one of our most versatile and prestigious screens.

IMPORTANT SAFETY INFORMATION

- ▶ Carefully read the instructions.
- ▶ This screen requires AC power connections.
- ▶ This screen should be installed by a qualified AV technician and an electrician, if required.
- ▶ For supply connections, use wires rated for at least 75 C.
- ▶ Use copper or aluminum conductors.
- ▶ For indoor use only.
- ▶ Do not connect low-voltage to line-voltage power.
- ▶ Earth ground terminal connection must be made as shown in wiring diagrams.
- ▶ Proper short circuit and overload protection must be provided at the circuit breaker distribution panel. Use up to a 20 amp maximum circuit breaker with adequate short circuit breaking capacity for your installation.

USING THIS MANUAL FOR INSTALLATION

Before proceeding with the installation of this screen, take time to thoroughly read and understand these installation instructions.

VOIDING YOUR WARRANTY

Failure to comply with the instructions and guidance contained in this manual will result in voiding your warranty.

PREPARING THE INSTALLATION

1. Specifications regarding the individual screen dimensions, weight, etc., are provided by the factory when the unit is ordered.
2. Make sure there is a clean surface on which to unroll the screen and assemble the frame. The use of gloves is recommended.
3. Prepare for electrical access by ensuring you will have sufficient power points. Note where you plan to mount the power points for the controls, and CVM for the screen's masking panels.
4. Check the size and weight of the screen to be installed so that you can plan for the number of people required for installation. You will need at least two people to mount standard size screens; more people are needed for larger, heavier screens.
5. If installing the Director's Choice EVO in an aperture, ensure that the opening is large enough to accommodate the screen in its installed configuration. A minimum clearance of 1 – 2" (2.5 – 5 cm) on all sides and on top of the screen is strongly recommended.

You will need

- ▶ A level
- ▶ A drill
- ▶ A drop cloth
- ▶ Lint-free, clean cloth gloves for handling the screen
- ▶ Ladders for the personnel supporting the screen during the mounting process
- ▶ Fasteners appropriate for the surface on which the screen is being mounted. Tools for tightening fasteners. **Note:** Bolts and other fasteners for the screen are standard gauge and sizes as used in the U. S. regardless of the country where installation will occur. For this reason, the sizes are expressed in inches rather than metric measurements.

USING THIS MANUAL FOR INSTALLATION (CONTINUED)

Unpacking

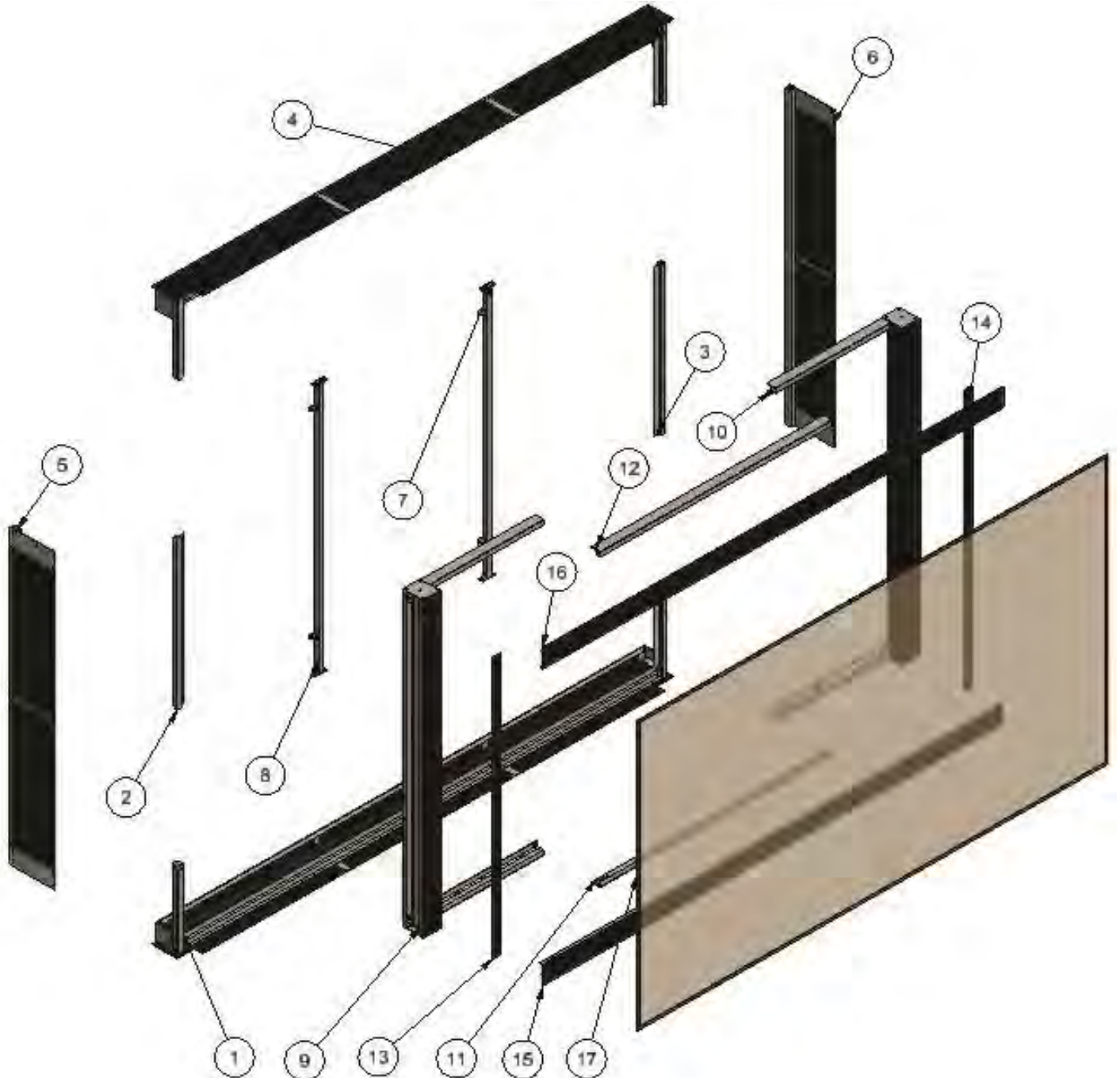
Be sure to unpack carefully in a clean area. Use special care when handling the screen so that it does not become soiled or damaged. Ensure that the staples are completely removed from the end of the shipping tube. If you plan to repack your screen and hardware for transportation to another location, you may wish to photograph or make a note of how it was packed. Keep the packing material.

CAUTION

Do not stand on the screen tube or store it vertically on its end. This will cause screen damage. If you are not going to install the screen immediately, make sure it remains horizontal during storage.

SCREEN SYSTEM COMPONENTS

Please understand that the assembly and installation of the Director's Choice EVO is not as daunting as it may first appear. The factory has placed numbers on the individual sections to help installers correctly match (join) the frame. The motors and Dual CVM control system both utilize color matching, numbered electrical cords, and connectors for easy assembly. There are 17 sub-components that assemble to become the D.C. EVO. Few tools are required for assembly; these include: wrenches, nut driver, and a hex key. It is also advisable to have 4 to 6 technicians assist during the first couple hours of the assembly process as some of the sections are fairly heavy and require lifting into position while other technicians secure sections with bolts.



ASSEMBLE HORIZONTAL CASSETTE

The top and bottom middle main frame sections connect with standard 1/4-20 hex head bolts and 1/4 -20 X 2 1/2" flat hex head screws. All frame section connection points are labeled 1, 2, 3, 4, etc.

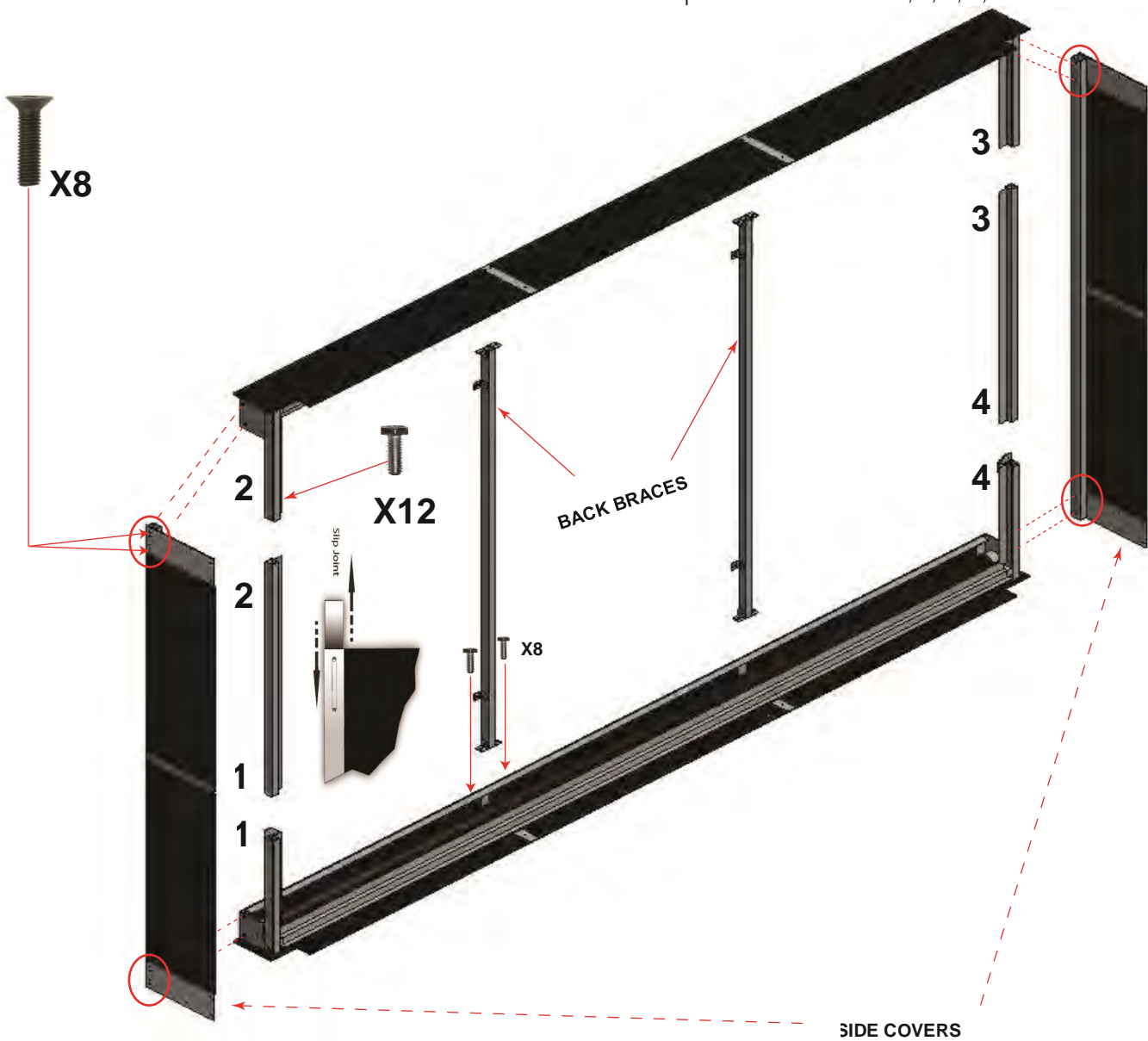


Fig.1

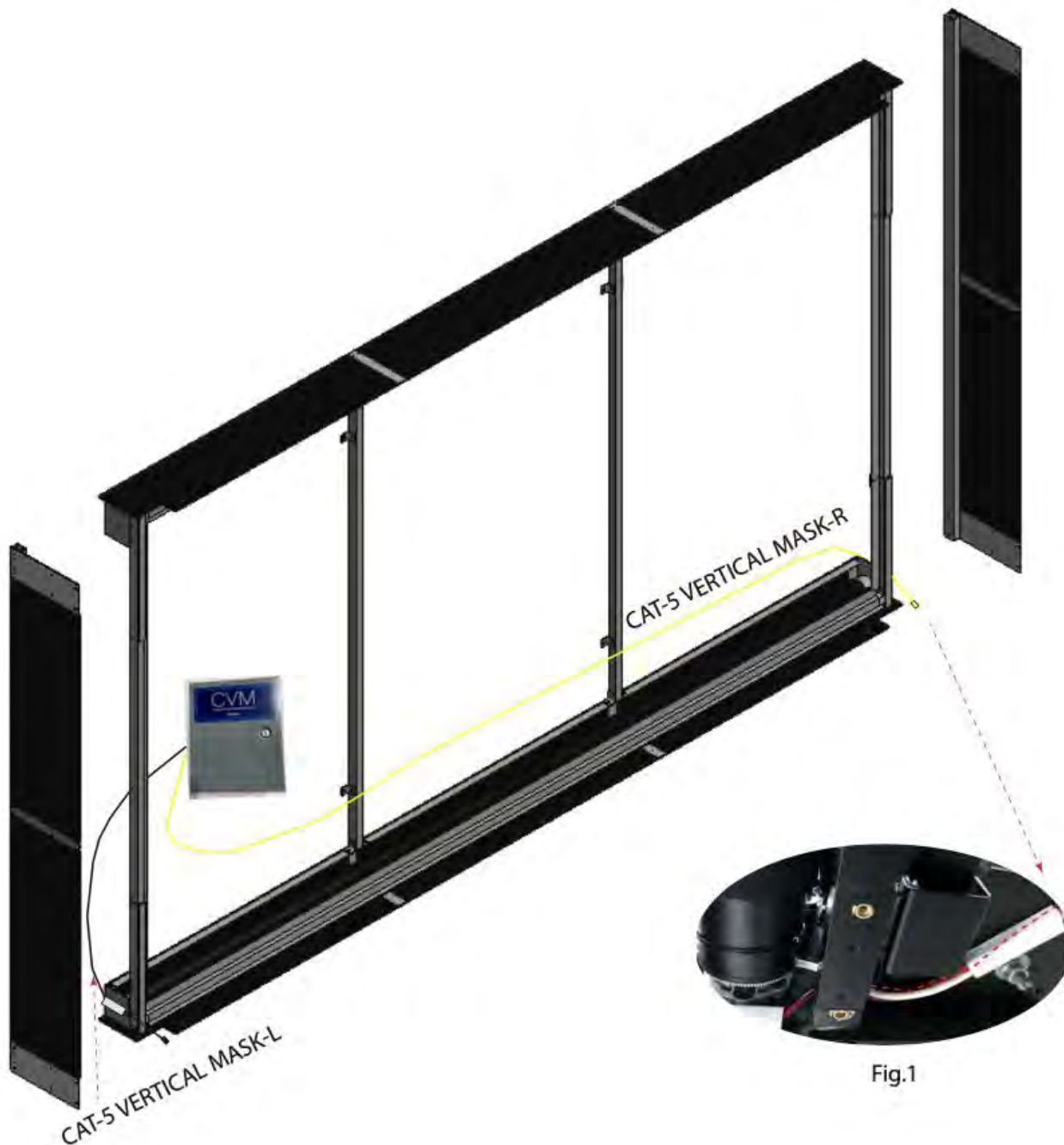
The internal slip joints provide ease of installation in tight locations. The main exterior frame is also vertically supported by two back braces. Do not install the Director's Choice EVO without using these specified supports. The D.C. EVO is a free standing system that should be secured to the back wall for added support. Attachment points on the back of vertical side members have been provided for this purpose. Begin the assembly procedure as close as possible to the finished mounting location. This will minimize final lifting and movement of the D.C. EVO; make sure it is mounted level and plum. The use of shims may be required.

ASSEMBLE SIDE COVERS AND CAT-5

Before attaching the side support panels, insert the Cat 5 through the white cable protector as shown on figure 1. Make sure the vertical motor cable and Cat 5 cables are secure and away from the masking track.

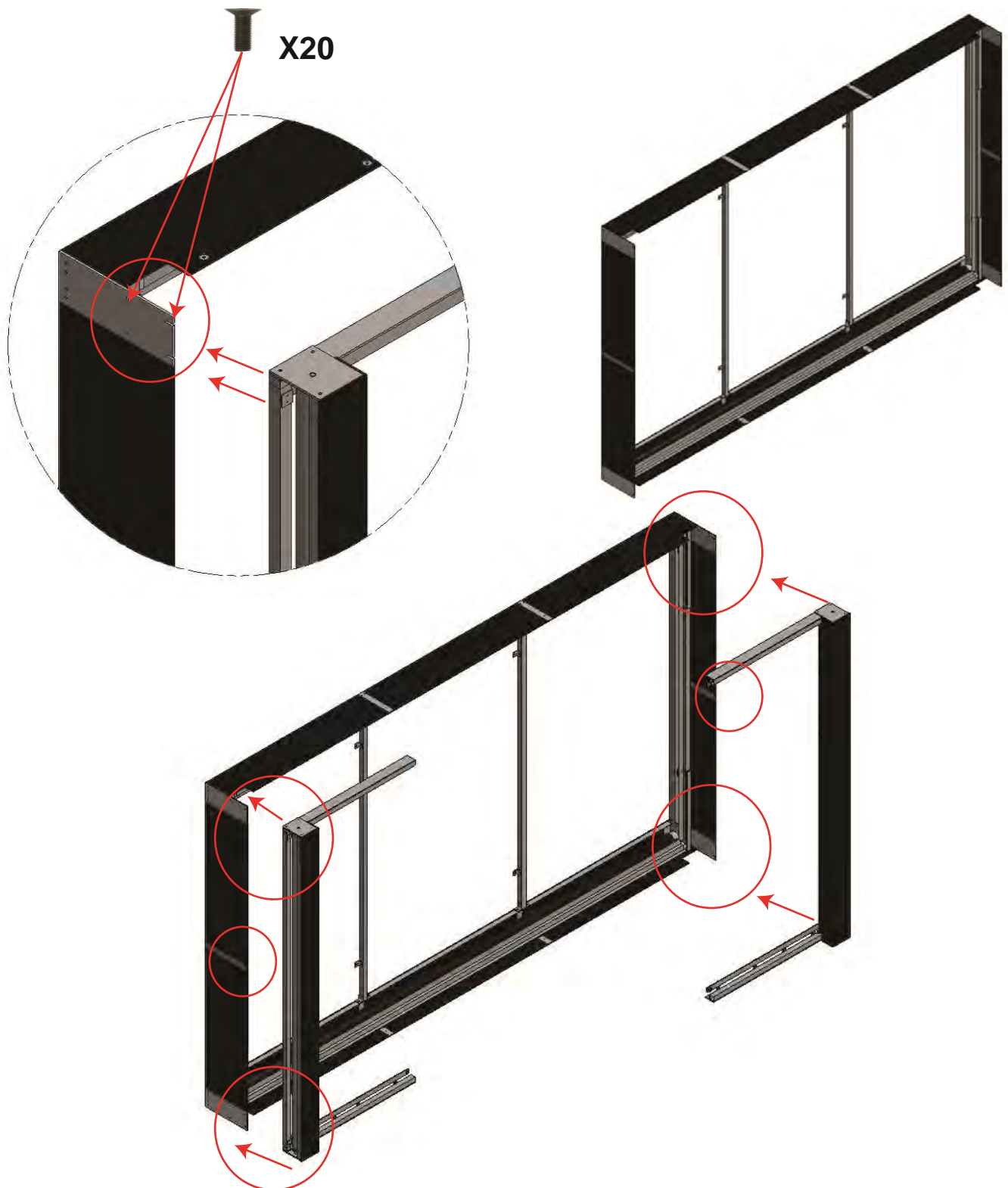
Do not operate the masking system until the track and cables are secured.

We suggest that the Dual CVM control box be mounted adjacent to the Director's Choice EVO or in close vicinity. In this way, it will be easily accessible, if required. In more challenging installations where space is limited, the CVM control box can be mounted to the wall directly behind the D.C. EVO.



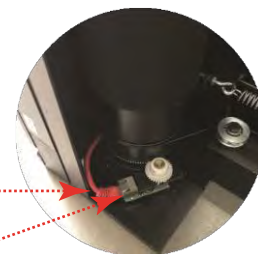
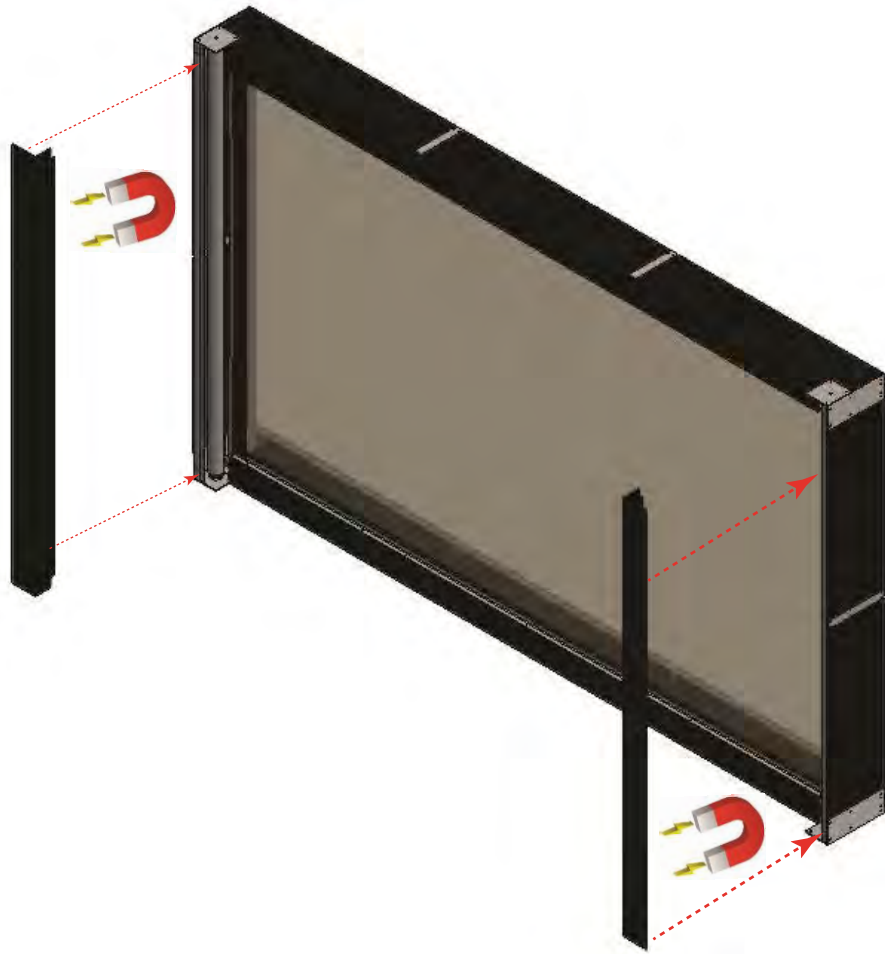
ASSEMBLE SIDE COVERS AND CAT-5 (CONTINUED)

Slide the vertical cassette to the first part of the assembly, and connect the Cat 5 cable with care after the motor cable and the Cat 5 cable are properly secured to the first assembly. Use the supplied ¼ -20 flat head screws top center and bottom to secure.



ENCODER CABLES ACCESS

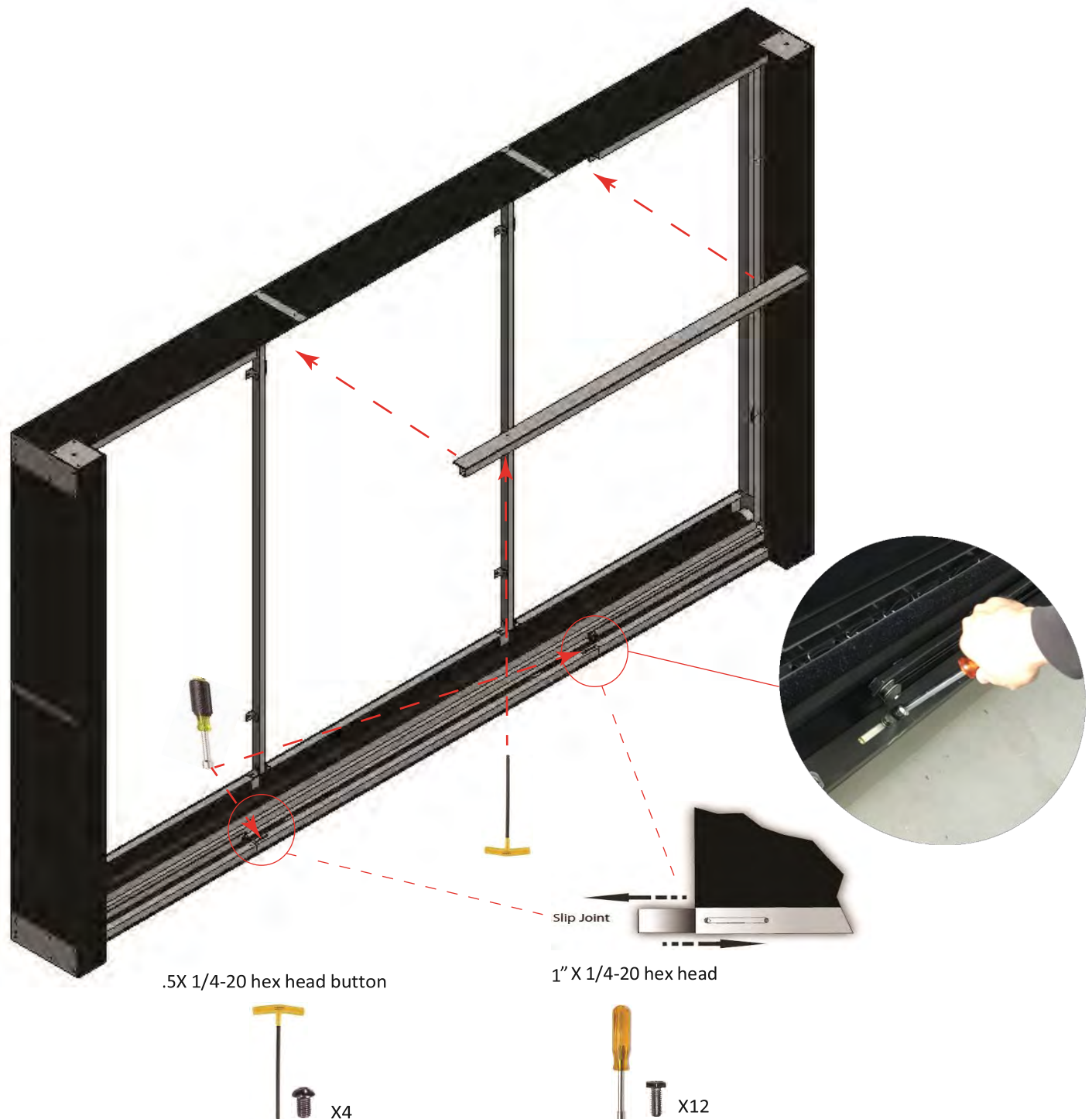
For easy access to connect the encoder cables, remove the vertical side covers. No tools are needed. See the illustrations below.



Remove vertical panel and connect the left and right encoder cables, which are labeled. Each label has a specific matching number. Incorrect cable matching will cause control failure.

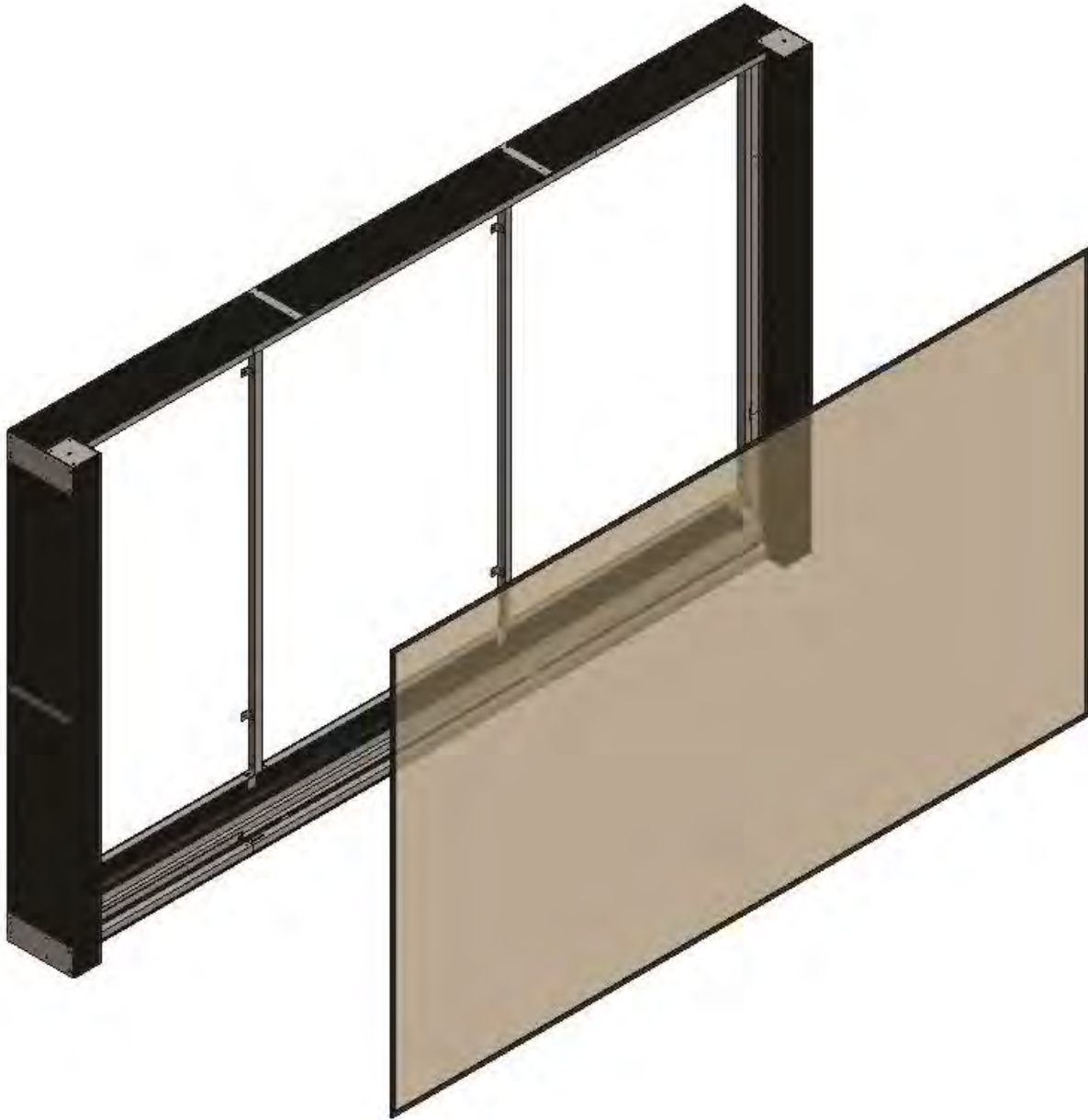
ASSEMBLE CENTER SECTION

The top and bottom middle main frame sections connect with standard $\frac{1}{4}$ -20 hex head bolts using a $\frac{7}{16}$ " wrench. Use the four $\frac{1}{4}$ "-20 x $\frac{1}{2}$ button hex head to secure the middle frame section using the $\frac{5}{32}$ " T-handle hex key. Connection points are labeled 1, 2, 3, 4, etc. The internal slip joints provide ease of installation in tight locations. The system should be secured to the back wall.



INSTALLATION OF FRONT LOAD SCREEN

During packing and transit, the screen material may shrink. The Stewart screen material has some elasticity and will stretch and spring back. The grommeted edge binding will not stretch past the manufactured outer dimensions. After the screen is attached to the frame, some tension will be apparent at each grommet.



⚠ CAUTION

To avoid damage to the screen, use caution when handling the screen-roll. Carry the roll by the ends only. Do not place the screen roll on steps or any uneven surface as the pressure can make permanent indentations in the screen.

INSTALLATION OF FRONT LOAD SCREEN (CONTINUED)

Screen Installation

Do not rush screen installation; doing so may cause screen damage. Do not use any hand tools to grasp the screen's perimeter edges while installing the screen. The screen must evenly stretch/expand into the framework, so exercising your patience during this process is vital. Only install the screen after the frame system has been secured to its final mounting location, and the CVM / masking panels have been thoroughly tested. The Stewart Filmscreen Director's Choice EVO is now ready for activation.

This section provides instructions for attaching the screen to the frame.

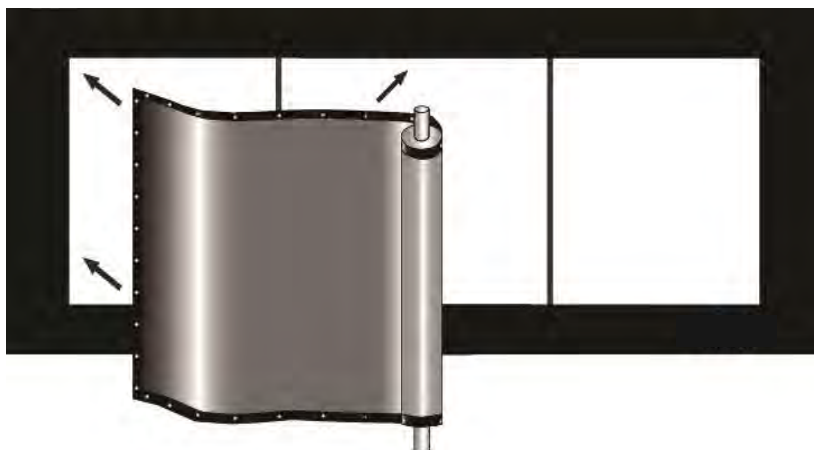
⚠ CAUTION

Be sure that your hands and clothing are clean. Use of gloves is recommended. Be careful not to touch or scratch the image surface with fingernails.

Do not use any tools to fasten the screen to the frame. Do not fold or crease the screen.

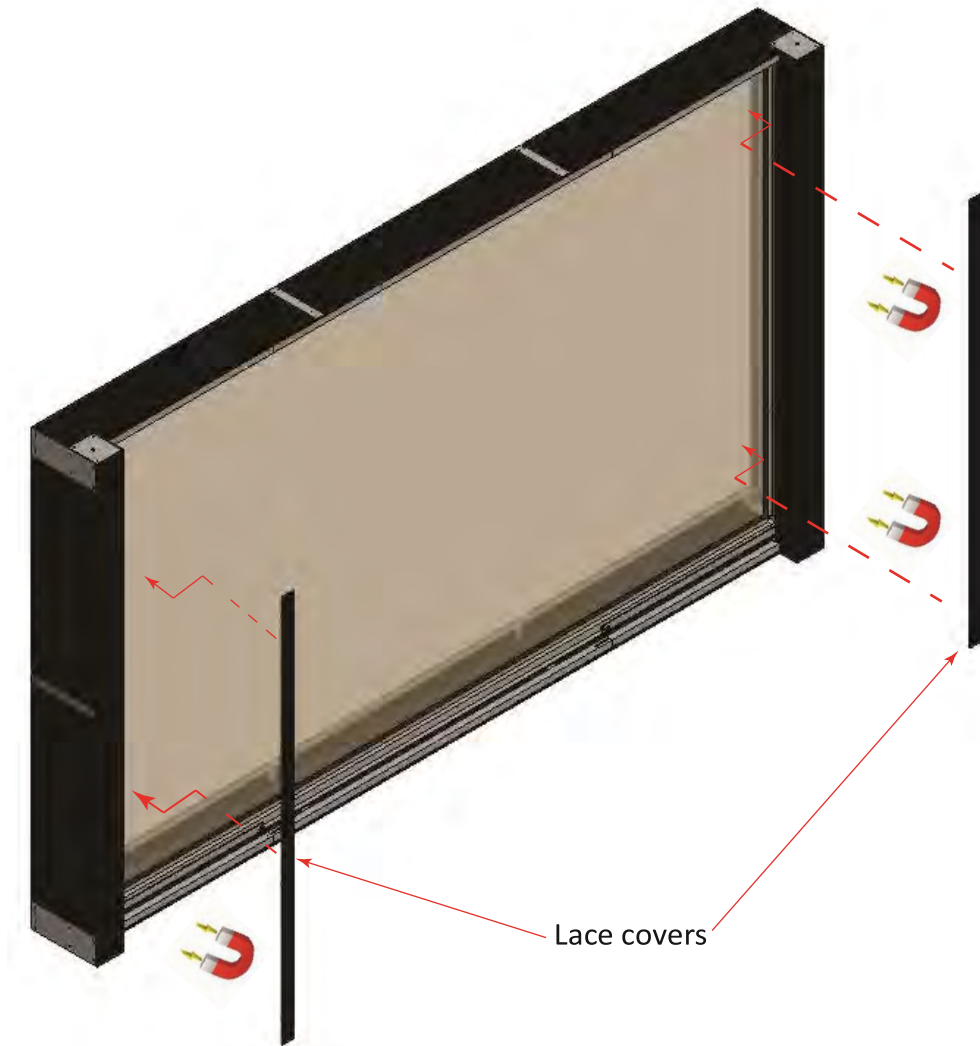
You will need at least two people, one to support the screen, and one to lace the screen in place. The viewing side of the projection screen is rolled to the inside to protect the optical coating. The screen is rolled lengthwise, with protective paper rolled in with the screen. The screen fabric attaches to the frame with S-hooks.

1. Remove the screen from the cardboard shipping tube. Make sure to completely remove the tube's staples to avoid screen damage.
2. Look at the frame and locate the S-hooks. Ensure the tension of the bungee cords are evenly spread across the width of the screen before lacing the screen material onto the frame.
3. While supporting the screen roll, connect the S-hooks to the screen into the frame starting from the top left corner to the center, which is indicated by a red S-hook and a red grommet attachment on the screen, and then from the center to the top right corner. Gently allow the screen to stretch onto the S-hooks.



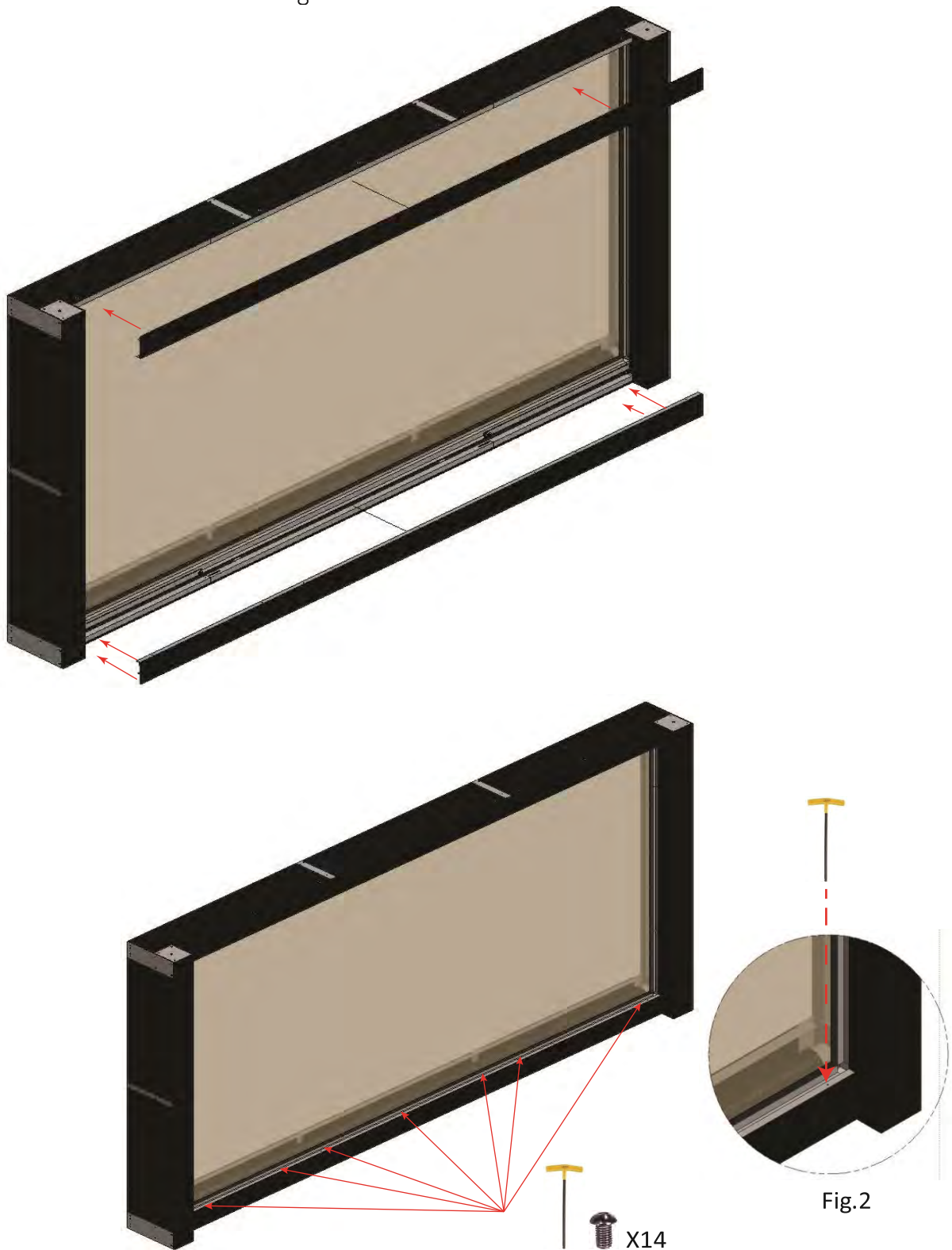
LACE COVER ATTACHMENT

In order to hide the screen webbing, carefully attach the labeled and magnetized covers. Carefully attach them. Avoid screen contact while installing these covers.



FRONT BEZEL ATTACHMENT

Use the supplied ¼ -20 X 1/2 screws to secure the bezel by using the 5/32" T-handle hex key. Locate the small holes shown on figure 2.



CARE FOR AND CLEANING THE SCREEN

With reasonable care, you may expect many years of dependable use of your Stewart projection screen.

General Maintenance

The surface of our screen is delicate. Special attention to these instructions should be followed when cleaning.

- ▶ A draftsman-style brush may be used to lightly whisk away any loose dirt or dust particles. This type of brush is usually available at office supply stores.
- ▶ For tougher spots, you can make a cleaning solution using a water-based detergent and warm water. To make the solution, mix one part Simple Green, 409, or other water-based industrial cleaner with three parts warm water. Moisten a clean cotton cloth or Q-Tip with this solution, moisten the stained area, and gently lift off the stain. **Never use an aggressive scrubbing action as you could damage the screen surface and its optical quality.** Remoisten the area with clean water and dab dry with a clean sponge or cotton cloth. Any residual watermarks will evaporate on their own within minutes; do not manually dry the screen surface.
- ▶ Do not use any other cleaning material on the screen.
- ▶ Contact the factory if you have any questions about removing difficult spots.

Velux Covering

Do not use chemicals or liquid to clean the fabric. Use a lint roller to remove particles from the Velux material. A brush can be used to comb (lift) the nap off the VeLux material to help eliminate depression marks.

Replacement Parts and Service

No user-serviceable parts are contained within the unit. Contact your dealer or the factory if you require serviceable parts.



Stewart Filmscreen Cleaning Kit

TROUBLESHOOTING

With reasonable care, you may expect many years of trouble free use of your Stewart projection screen. Refer to following guidelines if you encounter a difficulty in the operation of your Stewart screen. Problems related to electrical or motor function may require a qualified serviceperson or electrician. Should you have a problem that is not addressed here, call the Stewart Filmscreen Corporation at 1 (800) 762-4999 ext. 145 for Technical Assistance.

Problem Description	Probable Cause	Action to Take
Dirt, finger prints, marks, etc. on screen surface or masking panels.	Improper handling of screen.	Brush off or use a mild detergent solution with clean rag or cotton swab (screen only).
Motor chatters when power is activated.	Can be caused by voltage drop, bad connections, or a defective switch.	Have an electrician or qualified serviceperson check all hookups including all outboard wiring.
When retracting the masks, grinding noise occurs.	Drop in voltage.	Motor requires full voltage. Have an electrician or qualified service person check available voltage.
Fabric tear.		Repair tear immediately to prevent future tearing. Use cellophane or mylar tape on the back of the screen. For large tears that interfere with the projected image, contact the Stewart factory.
CVM or setting up of controls.		Refer to CVM notes.

ONE (1) YEAR LIMITED WARRANTY

STEWART FILMSCREEN CORPORATION (Stewart) warrants all products to the original purchaser only. Stewart products are guaranteed 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 or eighteen (18) months from date of manufacture, as defined in the serial number. Additionally, all products must be properly operated and maintained according to Stewart instructions and cannot be 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, including neglect caused by improper installation (i.e. proximity to hot lights, exposure to extreme heat or cold, exposure to excessive humidity, etc.).

Stewart on-site warranty repair services are not available for this product. Stewart's sole obligation under this warranty shall be to repair or to replace (at Stewart's sole discretion) the defective part of the merchandise. This warranty expressly does not cover any costs of removal, installation, framing, or other costs incidental to replacing the screen or returning it to Stewart. Returns for service should be made to your Stewart dealer. If it is necessary for the dealer to return the screen or part to Stewart, transportation (freight) expenses to and from Stewart are payable by the purchaser. Stewart is not responsible for damage in shipment. To protect against damage or loss in transit, insure the product and prepay all transportation expenses.

This warranty is in lieu of all other warranties, expressed or implied, including warranties as to fitness for use or 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. In no event will Stewart be liable for sums in excess of the purchase price of the product. No liability is assumed by Stewart 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 Stewart Filmscreen product, you may contact our Customer Service Department at 1161 W Sepulveda Blvd, Torrance, California 90502- 2797 (310-784-5300) Toll free (800-762-4999).

IMPORTANT: This warranty shall not be valid and Stewart shall not be bound by this warranty if the product is not operated and maintained in accordance with Stewart's written instructions. Stewart Filmscreen Corporation shall not be liable for any and all consequential damage(s) occasioned by the breach of any written or implied warranty pertaining to the sale of a Stewart Filmscreen product in excess of the purchase price of the product sold.



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