

# StageScreen® Projection Screen

## ASSEMBLY INSTRUCTIONS

### Section 1 - Frame/Screen Assembly



Figure 1

**Warning:** This product is intended for indoor use only. Failure to follow warning may result in product damage or personal injury due to unforeseen acts of nature.

**Please Note:** Installer is responsible for selecting mounting hardware appropriate for site conditions.

1. Open carrying case and remove pouch containing screen surface. Remove surface and lay it viewing side down on a clean tarp or drop cloth. This step must be completed first (Fig. 1).
2. Remove frame pieces from case and place in appropriate locations around outside of viewing surface.
3. Assemble frame by inserting "forks" (pins) of each piece into holes on adjoining piece. Tighten by turning color-coded attachment knobs (Fig. 4).

**Caution:** Color-coded attachment knobs must be fully tightened before screen frame is raised from floor or assembly surface. If all knobs are not tightened, weight of screen could cause forms (pins) to break, and screen could fall, causing injury.



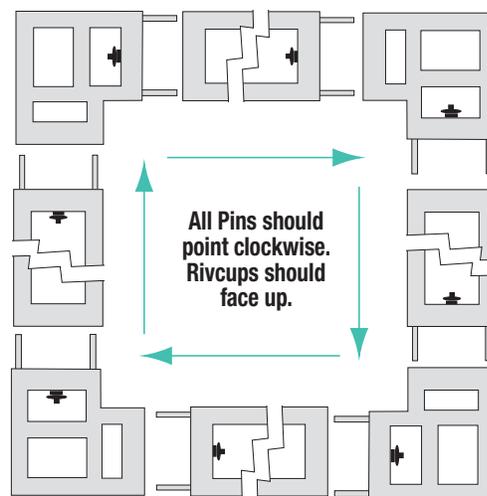
Figure 4

**Caution:** Beware of pinch points.



Figure 2

**Please Note:** Each piece is color-coded: refer to StageScreen Assembly Map included with screen for correct layout (see reverse side and Fig. 2).



**Please Note:** Make sure all frame pieces are placed with "forks" (pins) running clockwise, rivcups facing up, and DuraLoop Attachment Lugs facing out (Fig. 3).

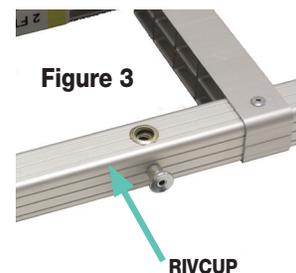


Figure 3

#### TOOLS REQUIRED



PENCIL



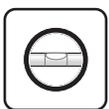
POWER DRILL



TAPE MEASURE



HARDWARE (by others)



LEVEL

#### CAUTION

**CENTER SUPPORTS:** All StageScreens over 60' wide require a center support (front projection only).

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

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

## **WARNING**

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

1. Please read 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 unit should only be performed by an authorized, qualified, and experienced professional. In particular, electrical work and wiring [indicated in diagram by dashed lines] must be completed only by a qualified professional electrician who has read this manual completely and is familiar with construction and operation of this equipment and hazards involved.
3. Do not affix unit to walls or ceilings that have inadequate strength to permanently hold unit during use. It is owner's and installer's responsibility to confirm wall or ceiling to which unit attaches is sufficient to permanently hold weight and stress loads of unit at all times. Draper, Inc., is not responsible for improper installation, application, testing or workmanship related to product at place of installation.
4. It is installer's responsibility to make sure appropriate fasteners are used for mounting.
5. All hardware must be installed level. Unit must be level and square.
6. Never leave area while operating unit during installation, maintenance, or normal operation, unless it is secure and safe.
7. Before testing or operation, carefully inspect entire area and path (especially underneath) of unit to be sure no persons or objects are in area.
8. Turn off power and any nearby equipment or cables carrying electricity before connecting switches, wires, controls, or electrical components.
9. Do not wire motors in parallel without written permission from Draper, Inc.
10. During testing or operation, carefully watch surrounding area for any potential safety concerns including nearby persons or objects.
11. After installation, entire system, including all sensors, 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.
12. Operation of unit should be performed only by authorized and qualified personnel, who have been trained in its safe and effective operation and understand its safety features.
13. The safety features of unit 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.
14. Unit 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.
15. **Failure to precisely follow installation guidelines invalidates all warranties.**
16. Custom products/installations may not be reflected in this manual. Call Draper, Inc., if you have questions about installation of custom products or any questions about your installation.

### ***Before Beginning Installation***

1. Look for any job site conditions that could interfere with installation or operation of 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 installer and owner. They should be followed closely and combined with expertise of experienced qualified installers. Draper, Inc., is not responsible for improper installation, application, testing or workmanship related to 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 proper unit and parts. Controls may be shipped separately, or in same carton as unit .
6. If you have any difficulties with installing, servicing or operating your unit , call your dealer or Draper, Inc., (765) 987-7999.

## Section 2 - If Screen Is Being Flown (If wall mounting, skip this step.)

1. Attach Stiffener Bars to outer perimeter truss tube and hand tighten using attachment knobs (Fig. 5). Hand tighten only!
2. Attach hardware for suspending screen.

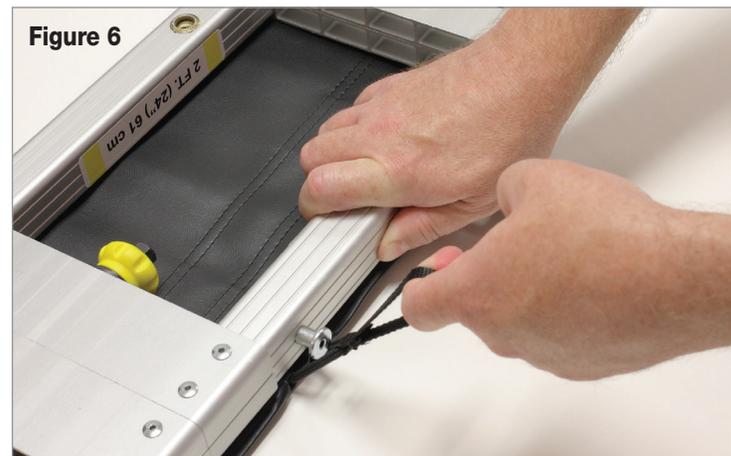
**⚠ Caution:** All fly points must be attached and all stiffeners secured BEFORE raising screen to prevent damage to frame and/or injury.

**⚠ Caution:** If StageScreen is to be flown, it is responsibility of installer to provide attachment hardware and suspension cables of adequate strength, and also to ensure overhead structure is strong enough to hold screen. Refer to StageScreen Assembly Map included with screen for where to locate hardware on frame.



3. Attach viewing surface to frame (Fig. 6).
4. Raise StageScreen into place (this step requires at least two people, depending on screen size). If screen is on legs, Draper's UFS StageHand can be used to assist in raising to a standing position.

**Please Note:** If legs are provided, see separate instructions and assembly guide provided with legs.



## Section 3 - If Screen is Wall Mounted

**Please Note:** When screen is wall mounted, frame should be mounted FIRST, before attaching surface

**⚠ Caution:** Bracket kit is to be used when wall-mounting a StageScreen only. The number of wall-mount bracket kits required for your screen (if wall-mounting a previously flown screen) corresponds with both number and location of “fly points” shown on frame map. Contact Draper if you have questions as to number or location of wall-mount brackets for your screen. Wall mount bracket is ordered separately under part number 383827.

**Please Note:** Prior to mounting brackets to wall, locate & measure locations along top horizontal of your StageScreen to allow brackets to be placed away from frame section unions & vertical rungs. The ladder-truss design of your StageScreen provides many mounting location possibilities for wall brackets. Ideally brackets will be at mid-point of a frame section & centered between vertical rungs.

### Notes for Wall Mounting

- If wall mounting, do not use any stiffener bars.
- Product does not ship with any mounting hardware.
- Anticipate weight of this product with proper support into studs.
- Do not rely on drywall only to hold screen!
- Installer is responsible for selecting mounting hardware appropriate for site conditions.

1. Attach bracket to wall (illustration shows three 1/4" x 3" lag bolts [A]. It is installer's responsibility to choose hardware appropriate for weight of the screen and mounting surface). EACH OF THE THREE MOUNTING HOLES SHOULD BE UTILIZED WITH APPROPRIATE FASTENERS!

**Please Note:** Always mount wall brackets to a wall stud or suitable structure using appropriate mounting hardware.

2. Position top horizontal member of StageScreen frame over wall-mount brackets as shown.

**Please Note:** Steps #3-#5 lock StageScreen frame to mounting brackets to prevent screen from being dislodged from brackets.

3. Thread top two #10-24 x 3/8" fasteners (B) into tapped holes on wall bracket until they contact wall.

4. Drill hole through one wall of StageScreen frame tube with #20 (.1610") drill bit; using wall bracket as a drill guide (C).

5. Thread self-tapping #10-24 x 3/8" fastener (C) through tapped hole in bracket & through hole in StageScreen tube.

**Please Note:** if desired, wall mount bracket can also be placed at BOTTOM of screen to:  
a. Secure screen to wall on bottom as well as top.  
b. Adjust bottom horizontal member (if needed) to correct deflection.

