

Revolution Canopy Cover

Instructions



Patent No. 10,145,121

Congratulations on the purchase of your ShoreStation Revolution Canopy System! ShoreStation has provided innovative products since 1959. Our founder Byron Godbersen built the brand with the philosophy “We build it best...or we don’t build it”. That tradition continues today and ensures your boating experience will be enhanced by the performance of your ShoreStation boat lift.


Thank you for choosing ShoreStation. Please study this manual carefully BEFORE operating the system and keep it in a safe place for future reference. If you have questions or concerns about the operation and/or service of your lift, please contact us at (800) 859-3028 or email shorestation@midwestindustries.com.



WARNING

DO NOT ATTEMPT TO INSTALL OR OPERATE THIS SYSTEM WITHOUT FIRST STUDYING THIS MANUAL AND INFORMATION ON LABELS INCLUDED WITH THE SYSTEM. FAILURE TO DO SO CAN LEAD TO IMPROPER INSTALLATION OR OPERATION RESULTING IN SERIOUS PERSONAL INJURY AND/OR PRODUCT DAMAGE. IF YOU HAVE FURTHER QUESTIONS AFTER REVIEWING THIS INFORMATION, CONTACT A SHORESTATION REPRESENTATIVE AT (800) 859-3028.

Safety Definitions

Safety messages are presented throughout this document and labels affixed to the product. The messages alert you to potential hazards to you and/or property. The signal words **DANGER**, **WARNING**, and **CAUTION** are preceded by an alert symbol  and communicate the severity of potential hazard. The severity of each type of message is defined as follows:

- **DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION**, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Safety Instructions

⚠ WARNING

- This system must be installed by a qualified installer using the process described in this manual.
- Review instructions before installing the system.
- Always wear personal protective equipment (gloves, eye protection, person flotation devices, etc.) when installing or operating the system.
- Ensure that no persons are present below the roll bars on both sides of the frame when rolling the canopy.
- Install retainer straps over the canopy during installation or removal if winds are higher than a light breeze (Beaufort force 2 Bft).
- Do not attempt to install the canopy top in winds higher than a moderate breeze (Beaufort force 4 Bft).
- Install all 4 retainer pins in the ratchet gear after installation of the canopy top.
- Never work alone. Proper installation requires at least two people who can safely lift the weight of the canopy system.
- Never leave the canopy installed on the frame if the boat is removed from the lift for more than a day or if a storm is forecasted. If the boat is removed, roll the canopy cloth up and secure it to avoid permanent damage to the system.

Beaufort Wind Scale: <http://www.spc.noaa.gov/fag/tornado/beaufort.html>

Preparation

The canopy installation requires the following tools:

- ¾ SAE Deep Well Socket and handle
- A boat or floating platform to access all 4 corners of the canopy frame
- A broom or pole to push the canopy roll
- Optional HA0239 canopy roll bar crank handle
- Optional step ladders to place canopy roll in the frame

Canopy preparation requires a clean, smooth surface such as the surface of the dock for preparation. The area should be clear of rocks or other debris that may damage the canopy cloth.

First-Time Installation

Remove all packaging and banding from components and open the canopy box. Sort all hardware. Installation of the canopy can be completed in a variety of steps. The following steps assume you have room on your dock or shoreline to unfold the length of the canopy on the ground or dock for preparation. If you do not have room for these steps, it is possible to unfold the canopy on the frame, installing the roll bars while the canopy cloth sits on the frame.

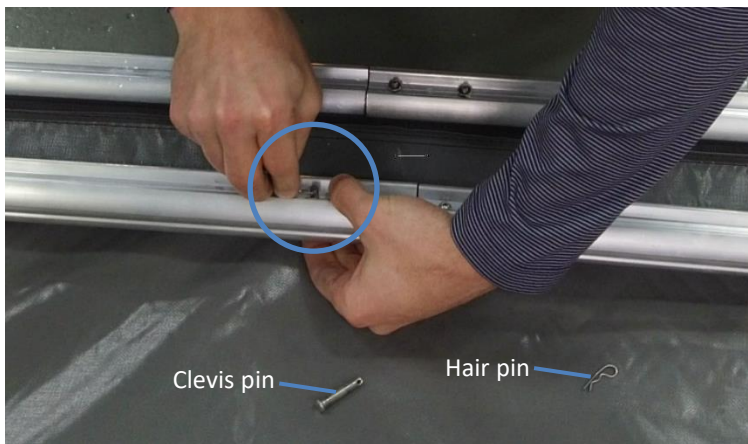
Step #1

Unfold the length of the canopy cloth so both keder edges are exposed. Carefully slide the roll bars onto the keder edge as shown.



Step #2

At all the splices, push a clevis pin through the roll bar and splice, then use a hair pin to secure the connection. This connects the 3 roll bar sections together for each side of the canopy.

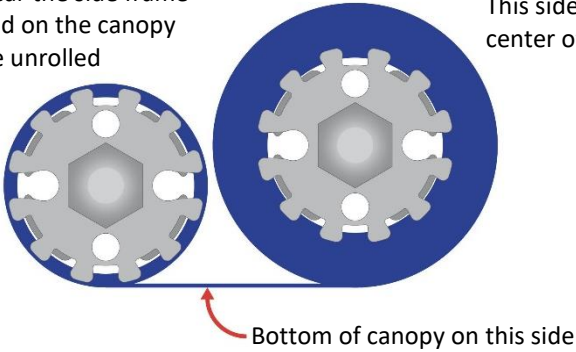


Step #3

Roll up the cover so there is about 30" rolled around one roll bar and the rest rolled around the other roll bar.

This side near the side frame when placed on the canopy frame to be unrolled

This side toward the center of the canopy



Step #4

Carefully lift canopy roll onto the top of the side frame of the lift with the smaller rolled bar towards you.



Step #5

Put the two installation straps over the frame and roll bars if winds are higher than a light breeze (Beaufort force 2 Bft). Buckle the straps around the canopy legs on both sides. Tighten the straps enough to hold down the canopy if the wind picks it up, but not so tight that the canopy won't unroll smooth.



Step #6

Use the ShoreStation crank shaft on the end of the roll bars to unroll the canopy. Or use a broom or pole to push the roll across the frame while holding unrolled bar.

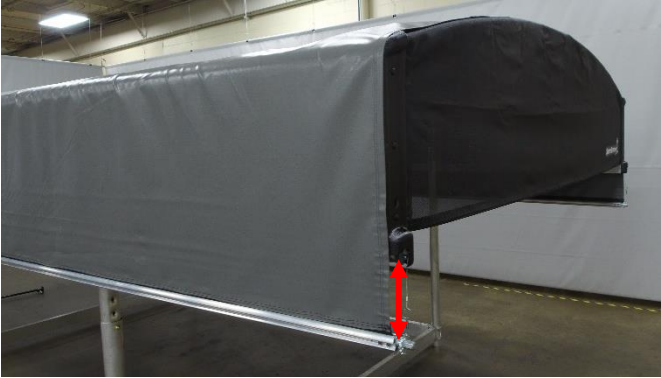
⚠ WARNING

The roll may 'free fall' when pushed across to the opposite side. Be sure no one is standing under the sides of the frame when unrolling.



Step #7

Adjust the canopy so the roll bars are parallel with the frame making the distance from the frame to the roll bar the same on both ends of the same side.



Step #8

Using your 3/4 SAE Socket & handle, roll one end of the roll bar while securing the roll with one hand to keep it from unrolling. Continue to roll until the roll bar gear engages the ratchet pawl on the frame corner. Ensure both ends of the roll bar engage the ratchet pawl slot on both ends of the frame. Tension the fabric enough to engage, but not slide the canopy across the frame.



Step #9

Roll the opposite side roll bar into the ratchet pawl on each corner of the lift. You may need to use a boat or floating platform to access the corners of the lift. Tighten the canopy on all corners.



Step #10

Be sure every corner is cranked tight and the gear is locked in, then insert the retainer pins on all corners.



Seasonal Storage on the Frame

The canopy system can be stored rolled onto the frame if it is clean and dry before rolling. It is recommended that the canopy cloth be cleaned and allowed to dry on the frame prior to storage. The steps below assume the canopy has been cleaned and you plan to store the roll on the frame.

Step #1

Install the retainer straps over the frame and roll if winds are higher than a light breeze (Beaufort force 2 Bft). Buckle the straps around the canopy legs on both sides. Tighten the straps enough to hold down the canopy if the wind picks it up, but not so tight that the canopy won't roll up smooth.



Step #2

Start with the canopy side furthest from the dock. Place the ¾ SAE Socket and Handle on the roll bar end. You will need to torque the roll to allow the retainer pin to release. Hold the roll with your other hand while letting it unroll. If the other end is still engaged with the pawl, repeat the step on the other end.

⚠ WARNING

Do not stand below the roll bars when releasing from the frame. Doing so could cause the roll bar to strike you causing injury.



Step #3

Roll the canopy up until the roll is near the middle of the width of the frame. Have your assistant hold the roll in place.



Step #4

Repeat Step #2 on the dock side of the frame. Roll the canopy up until the two rolls meet. Carefully roll one roll bar over the other so the top side of the canopy is facing down (shown below).



Step #5

Unbuckle the center strap on the frame, adjust the buckles as needed, wrap the strap around the roll bars and one of the canopy frame bows, and buckle. Tighten the strap to secure the roll. Repeat on the other end of the canopy.



Seasonal Installation

After a storage season, the canopy is easily re-installed onto the frame. Simply unbuckle the center strap and re-install the strap on the canopy frame. Starting with Step #5 in the First Time Installation Section of this manual, follow the instructions to re-attach the canopy.

Cleaning and Care

This canopy contains a mildew retardant. Please follow these recommendations to ensure that this agent is not destroyed and that the vinyl will not be damaged.

1. Ordinary oil and dirt can be removed with soapy water such as laundry detergent. Apply with a mop, sponge, brush or cloth followed by a clear-water rinse. Stubborn spots can be removed by using rubbing (Isopropyl) alcohol in a well-ventilated area, away from open flames. **DO NOT USE** gasoline, kerosene, methyl ethyl ketone (MEK) or other solvents or bleaches.
2. Retract or remove canopy when hoist is in storage. Make sure canopy is dry before rolling or folding. If the canopy is to be removed and folded, store in a warm, dry location.

Parts & Warranty

For parts and warranty information, go to:

www.shorestation.com/parts