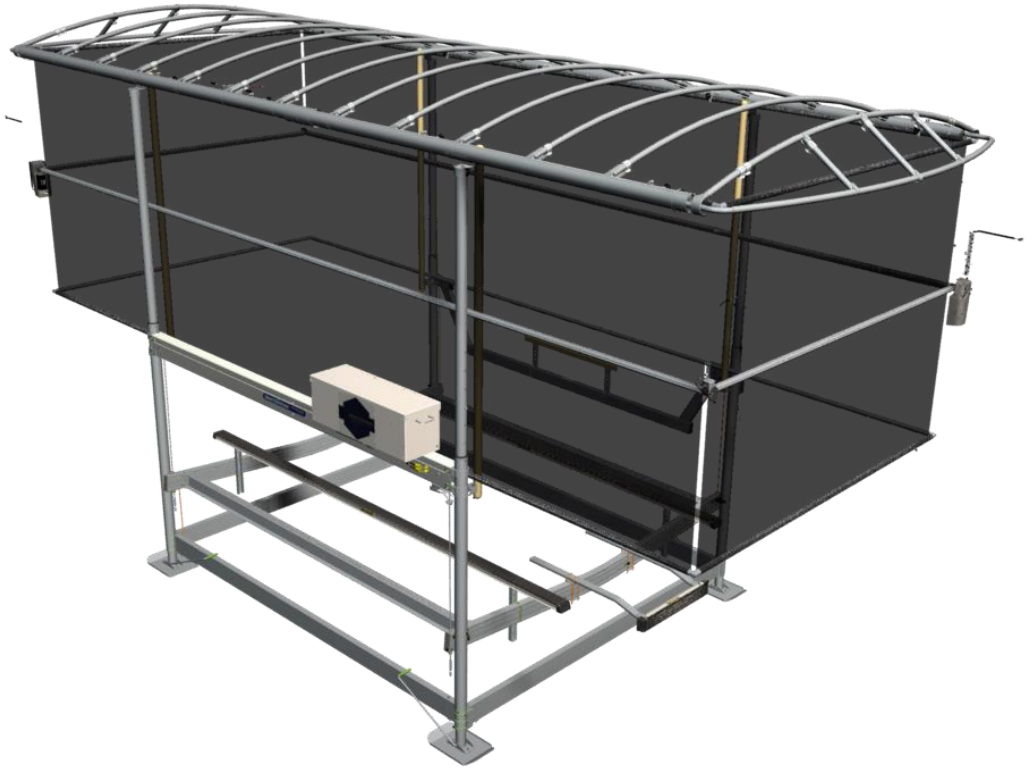
ShoreScreen Application Guide

Introduction

The ShoreScreen boat lift power curtain creates a unique enclosure to protect your customer's boat from sunlight and debris. The intent of this document is to give you guidelines for the proper application of the system to ensure it performs to your customer's expectations.



WARNING!

- NEVER INSTALL OR WORK ON THE EQUIPMENT WITHOUT FIRST VERIFYING THAT THE A/C POWER SUPPLY (IF PRESENT) IS PROTECTED BY A FUNCTIONING GROUND FAULT CIRCUIT INTERRUPT (GFCI) IN ACCORDANCE WITH NATIONAL ELECTRIC CODE SECTION 210.8 AND ANY ADDITIONAL LOCAL CODE REQUIREMENTS.
- Disconnect all A/C power from the dock before installing or working on the equipment.
- Do not install the ShoreScreen system if the lift location is frequently included in High Wind Warnings (sustained winds greater than 40 mph) and the installation has direct exposure to these conditions.
- Retract the curtain when the boat is not in the lift. Never leave the curtain down without the boat in the lift.
- Do not extend the curtain with people in the boat lift.
- Do not modify the ShoreScreen system without written approval from ShoreStation. Any modifications made without written approval may void the warranty.
- Read and understand the information included in the Owner's Guide and the Installation Instructions before installing the ShoreScreen system.
- The ShoreScreen system must be installed by a qualified ShoreStation dealer who is familiar with the structure and controls systems on the lift.
- The ShoreScreen motors are designed for 12V DC power only. Do not attempt to connect them to 24V power. Doing so will damage the motors and void the warranty.

System Overview

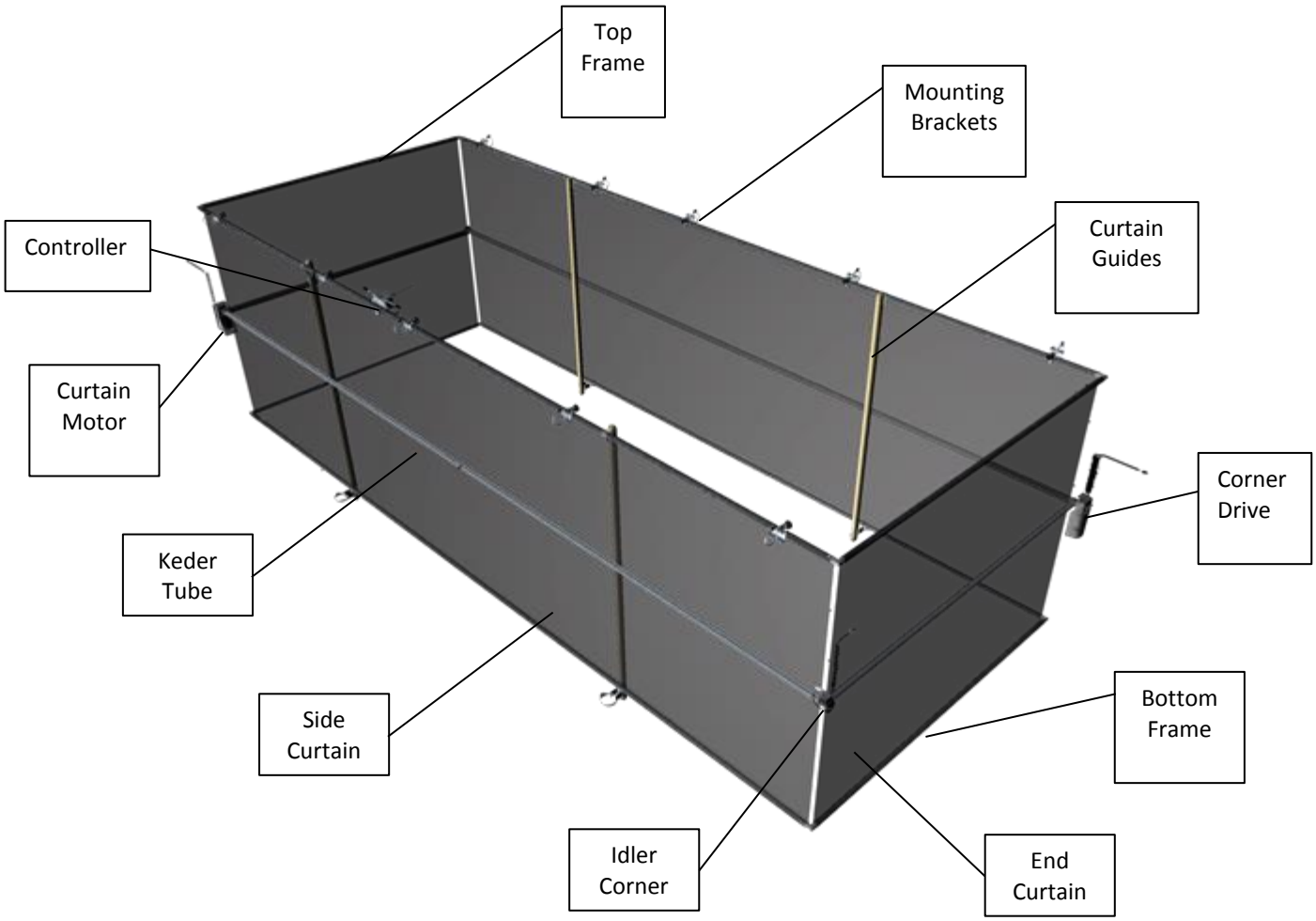


Figure 1 - ShoreScreen Components

How It Works

The ShoreScreen system components are shown in Figure 1. The Top Frame is inserted into the top pockets of the side and end curtains. The curtains are hung from the canopy frame using the mounting brackets. The Bottom Frame is inserted in the bottom pockets of the side and end curtains. The Keder Tubes are connected to the keder strip that is sewn into the side and end curtains. The 2 - 12V DC Corner Drive motors then cause the Keder Tubes to rotate. This causes the curtains to roll around the Keder Tubes. As the Keder Tubes rotate, they climb the upper portion of the curtain while the lower portion is wound around the Keder Tube. The Curtain Guides retain the curtain in wind to avoid contact with the boat.

The Idler Corner gears tie the opposite corners together to ensure the two Corner Drive motors operate at the same rate. When the curtain is fully retracted, it contacts the limit switch mounted by the controller and stops the motors. A backwind switch is mounted to one of the idler corners to stop the curtain when it is fully extended.

The entire system is operated using the FlexPower Wireless motor controller. This system is operated using either the wireless remote controls or the wired dockside toggle switch provided with the system. If the boat lift is operated using a ShoreStation FlexPower controller, then the boat lift remote controls can be paired with the curtain controller. This allows the user to operate the

lift and the controller using the same remote controls. The installation instructions provided with the curtain provide details on the process.

Screen Material

The ShoreScreen curtain is made from Phifer's SunTex 80 fabric. This fabric is a unique woven mesh that can block 80% of the sun's hot rays. It is strong vinyl-coated polyester that is mildew and fade resistant and needs only an occasional cleaning with mild soap and water. It also features Microban antimicrobial protection to inhibit the growth of bacteria, mold and mildew that can cause stains, odors and product deterioration. The SunTex material is also screen printable to allow logos and graphics to be added.

The black screen material was deliberately chosen for its see-through appearance. It creates a subdued shadowy effect that blends with the surroundings. Compared to the solid 'vinyl' aftermarket sides, the ShoreScreen accents the lakefront layout and avoids the 'big barn' look of vinyl.

Models

ShoreScreen model numbers were developed to be consistent with the matching canopy frame model numbers. Keep in mind that the model numbers do not necessarily reflect the actual size of the system. Refer to the specifications for each model for actual dimensions.

Example: **CS24-120-7A**

The ShoreScreen model in the example above fits on a CF24-120N canopy frame. The -7A denotes that it is approximately 7 feet long and includes 'A' style mounting brackets (ShoreStation Canopy frame mounting brackets).

Application Considerations

Location

ShoreScreen systems will increase the amount of wind load on the lift structure. It is important to consider the wind conditions of the lift location. As a 'general' rule it is good to avoid installing the curtain on lifts that have direct exposure to a large wind fetch such as the end of points or large open bodies of water. Every location has unique characteristics and a discussion with the 'locals' can help determine the common wind directions that cause problems for lake equipment.

Lift Configuration

The ShoreScreen mounts on the inside of the lift. Because it is mounted inside, the curtain cannot lower past the lift platform. The curtain should be used with CP90 length canopy posts (Figure 2). If shorter posts are used and the canopy is mounted low, the lift platform will interfere with the curtain. In this case, the platform will not be able to fully rise or the curtain will not be able to be fully extended (Figure 3). This may be acceptable in some instances, but be aware that the lift travel or curtain extension may be limited.

The ShoreScreen requires 12V DC to operate. If the lift is a ShoreStation FlexPower Hydraulic or EDS lift, the boat lift battery will be able to power the ShoreScreen system. On 24V systems with two batteries, the ShoreScreen controller is connected to one of the two in the 24V series. The boat lift's ShoreStation Solar Panel or Battery Tender system will be able to provide sufficient charge.

If the lift is an older A/C powered or Manual system, then you will need to provide 12V DC power for the curtain. The following components are recommended for adding 12V power:

- HA0150 Corner Post mounted battery bracket and box. This allows you to mount a battery to the canopy post and includes the battery box. The battery is NOT included.
- HA0110 12V 20W solar panel or the HA0083 110V A/C battery tender.

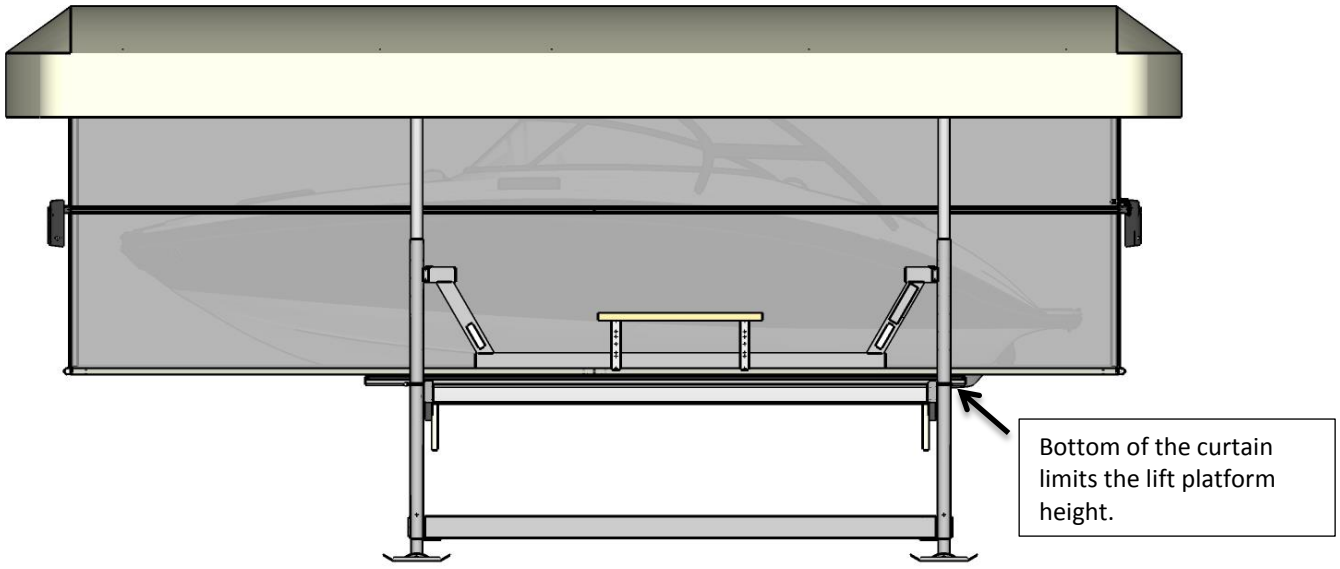


Figure 3 - Canopy& Curtain installed too low – short canopy posts do not allow the full lift travel.

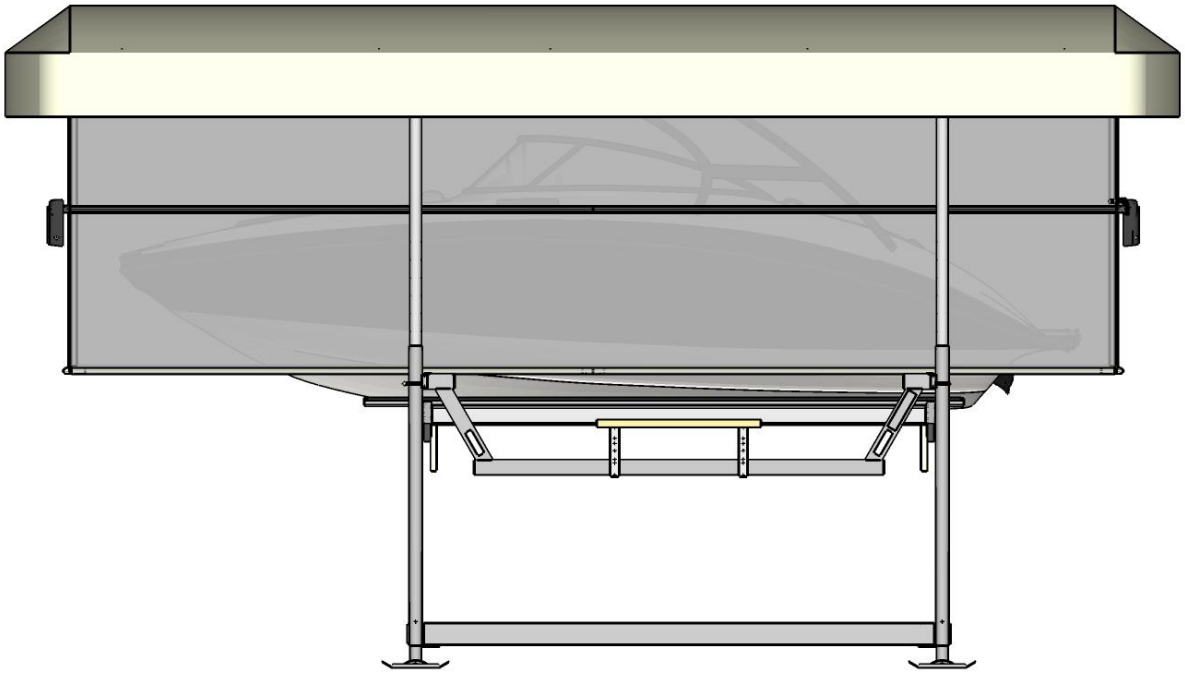


Figure 2 - CP90 Canopy posts installed for maximum lift travel and curtain extension

Recommended Accessories

The following accessories are options that can be added to the lift to improve the stability and performance of the ShoreScreen system. **The accessories do not replace the need to retract the curtain when the lift is unloaded (boat not in it).**

HA0007 - Brace Tube Kit for canopy frames

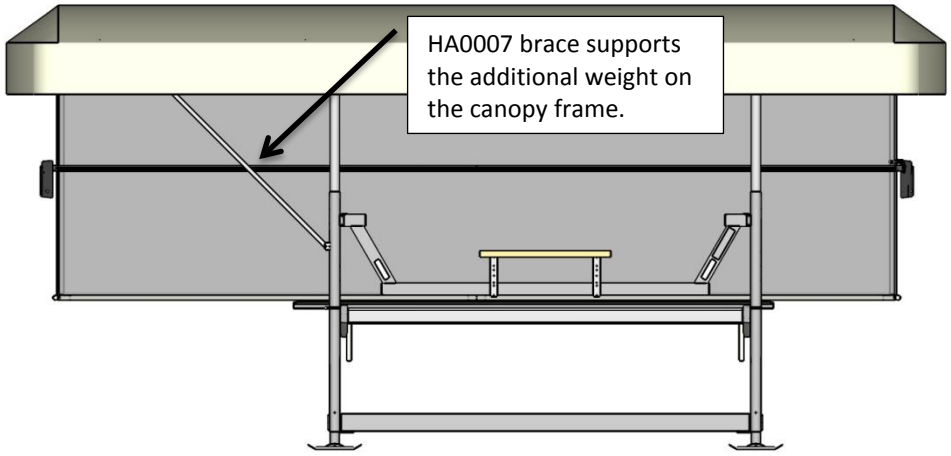


Figure 4 - Canopy Brace Tube

The HA0007 canopy brace tube kit may be required to support the canopy frame for the additional weight added by the ShoreScreen. This will depend on the length of the curtain and the adjustment of the canopy frame on the lift. One pair of braces is included with canopy frames 26’ and longer. A second pair may be added to the rear of the lift if needed.

HA0210 – Corner Leg Brace

The HA0210 corner leg brace increases the stability of the lift. The braces are recommended for installations that are in deep water and have large exposure to wind and wave action.

Figure 5 - Corner Leg Braces

HA0097 – 5 ft. Post Load Guides

In windy conditions, the curtain will blow towards the center of the lift. The included curtain guide poles retain the curtain to avoid contact with the boat. Post load guides can also be added to the lift to protect the boat from contact with the curtain components.

Note: The curtain system may not work with ‘GlideRail’ and other horizontal load guide assembles because they may interfere with the motion of the curtain. Check the inside dimension specifications for the ShoreScreen model you are considering. Compare it to the widest measurement of your load guides adjusted for the boat. Compare this measurement to the ShoreScreen dimensions to determine if there will be interference.

HA0059-03 – Lower frame hoist weights

The lower frame hoist weights can be added to increase the weight of the lift to improve stability under wind loads.

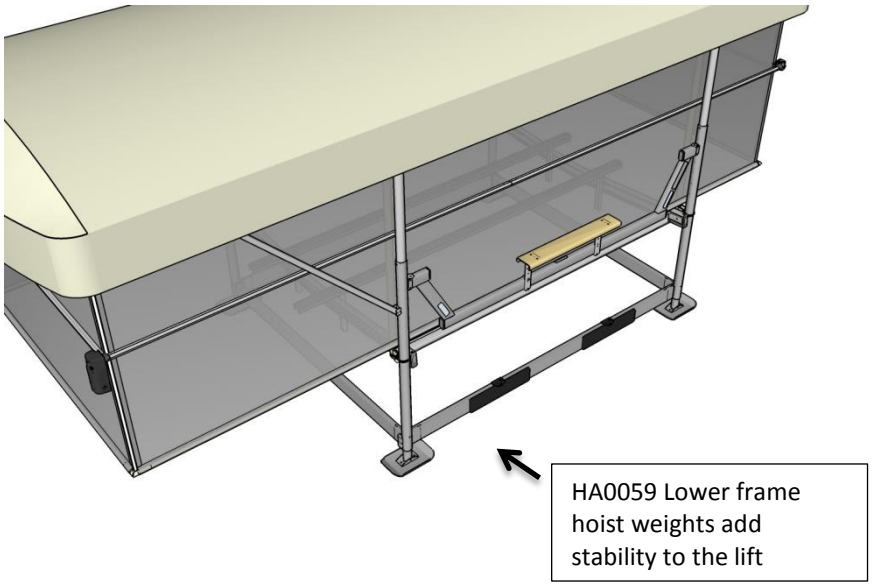


Figure 6 - Lower Frame Hoist Weights

Troubleshooting

The ShoreScreen system is operated by the FlexPower wireless control system. The troubleshooting procedures are similar to the troubleshooting FlexPower EDS systems.

Issue	Remedy
The ShoreScreen will not run up or down. It does not appear to be trying to turn either direction.	• Double check to make sure the lift battery is charged and connected • Make sure the wired switch for the ShoreScreen controller is connected and the key is in the ON position. • Check the 5A fuse on the controller harness.
The ShoreScreen system will run down, but not up.	• Try another lift battery and make sure the battery is fully charged. • Check to make sure the top limit switch is plugged in. • Check to make sure the top limit switch is not tripped or stuck.
The ShoreScreen system will run up, not down	• Check to make sure the backwind switch mounted on one of the corners is not stuck or tripped. • Try unplugging the backwind switch.
The ShoreScreen system is trying to turn (up or down) but not moving.	• Try another lift battery and make sure the battery is fully charged. • Check to make sure both motors are plugged in. • Disconnect the motors from the roll tubes and check to see if the motors run unattached. If they run, make sure they are turning the same direction. If not, change the polarity of the incorrect one.
The lift moves when the ShoreScreen remote is pressed.	• Incorrect pairing of the ShoreScreen remotes with the lift controller. Re-pair the lift remotes (refer to the lift instructions). • Replace the batteries in the remote.