



POWER BIMINI MASTER OWNER'S MANUAL

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Introduction

The Power Bimini delivers improved sun protection and on-board comfort with an automated telescoping boat shade that can be easily operated by a helm-mounted momentary switch—or, if so equipped, by a two-button touch-sensitive controller, a Bluetooth® compatible app or by the convenience of a key-fob remote.

NOTE: A helm-mounted switch and a touch-sensitive controller are **NOT** compatible. Only one type of control can be used. Determine which type of control is installed before operating the power bimini system.

The Power Bimini system can be equipped with several features:

- Key-Fob (remote control)
- Touch-sensitive controller (Touch Controller)
- High-speed mesh top
- Front shade extension
- Courtesy light
- Speakers
- Adjustable front support straps
- Front support arms
- Complete quick-connect (QC) bimini system

This manual covers the operation of the various available power bimini features. To learn about the operation of any installed feature, refer to its section listed under the Table of Contents.

Additional information about this product can be obtained from lippert.com/support or by downloading the free LippertNOW app. The app is available on Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users.

Apple App Store®, iPhone®, and iPad® are registered trademarks of Apple Inc.

Google Play™ and Android™ are trademarks of Google Inc.

For information on the assembly or individual components of this product, please visit:

<https://support.lippert.com/marine-products/>.

NOTE: Images used in this document are for reference only when assembling, installing and/or operating this product. Actual appearance of provided and/or purchased parts and assemblies may differ.

NOTICE

The 6 Amp auto-reset circuit breaker used on any Power Bimini System that does NOT use the touch-sensitive controller MUST be protected by a 15 Amp auto-reset circuit breaker or a 30 Amp fuse. The 6 Amp auto-reset circuit breaker provides protection for the Power Bimini System and NOT for the entire craft's electrical wiring system. Do NOT use a replacement fuse less than 30 Amps. Circuit breakers and fuses do NOT operate the same and are NOT interchangeable.

Safety

Read and understand all instructions before installing or operating this product. Adhere to all safety labels. This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage, including voiding of the Lippert limited warranty.

WARNING

The "WARNING" symbol above is a sign that a procedure has a safety risk involved and may cause death or serious personal injury and/or severe product or property damage if not performed safely and within the parameters set forth in this manual.

WARNING

Failure to follow instructions provided in this manual may result in death, serious personal injury and/or severe product and property damage, including voiding of the component warranty.

WARNING

Do NOT fully open the bimini frame without the canvas top installed. Opening the bimini frame without the canvas top installed will result in severe product damage. Only fully open the bimini frame with the canvas top installed.

WARNING

Do NOT open or operate the top in excessively high winds. Having the top open or operating the top in high winds, regardless if the boat is in motion or anchored, can cause serious damage to the top's framework, which could cause severe product and/or property damage, including serious personal injury.

WARNING

Do NOT operate the top while the boat is in motion. Operating the top while the boat is in motion can cause serious damage to the top's framework, which could cause severe product and/or property damage including serious personal injury.

WARNING

Do NOT trailer or tow the boat without the protective boot properly installed on the top and without the top in its full down position. Trailering or towing the boat without the top in its full down position and without the protective boot properly installed can cause serious damage to the top's framework, which could cause severe product and/or property damage, including serious personal injury.

CAUTION

The “CAUTION” symbol above is a sign that a safety risk is involved and may cause personal injury and/or product or property damage if not safely adhered to and within the parameters set forth in this manual.

CAUTION

Always wear eye protection when performing service, maintenance or installation procedures. Other safety equipment to consider would be hearing protection, gloves and possibly a full face shield, depending on the nature of the task.

CAUTION

Moving parts can pinch, cut or crush. Keep clear and use caution.

CAUTION

Do NOT exceed 15 mph when front shade extension is deployed. Exceeding maximum speed limit with front shade extension deployed can cause damage to the extension and void product warranty.

NOTICE

All electrical wiring harnesses shall be loomed and secured to prevent possible damage and installed in accordance with the latest ABYC (American Boat and Yacht Council) electrical standards, [E11 and S31](#)

Power Bimini Features—if so equipped

The following power bimini feature illustrations identify the location of the system's key features, if so equipped.

NOTE: The fabric top is not shown in some images for clarity.

NOTE: The fence railing is shown for illustrative and orientation purposes only. Boat fencing and railings are **NOT** included in the Power Bimini system.

Securing straps are provided to prevent undue billowing of the bimini top and for the attachment of accessories. There are three different types of straps:

- Corner Straps – two at each corner of the front leading edge. These are used to prevent the top from moving side-to-side and to secure it when prepping the top for storage in the boot.
- Front Straps – two front adjustable straps are connected from the front frame to the pontoon rail.

NOTE: The bimini is rated for 45mph with the front straps in-place and only 25mph without the front straps secured.

- Changing Room Attachment Straps – four loops under the canopy on either side of the middle frame (eight loops total) for attaching a changing room.

NOTE: Make sure the corner securing straps are in place when installing the boot or operating the bimini top.

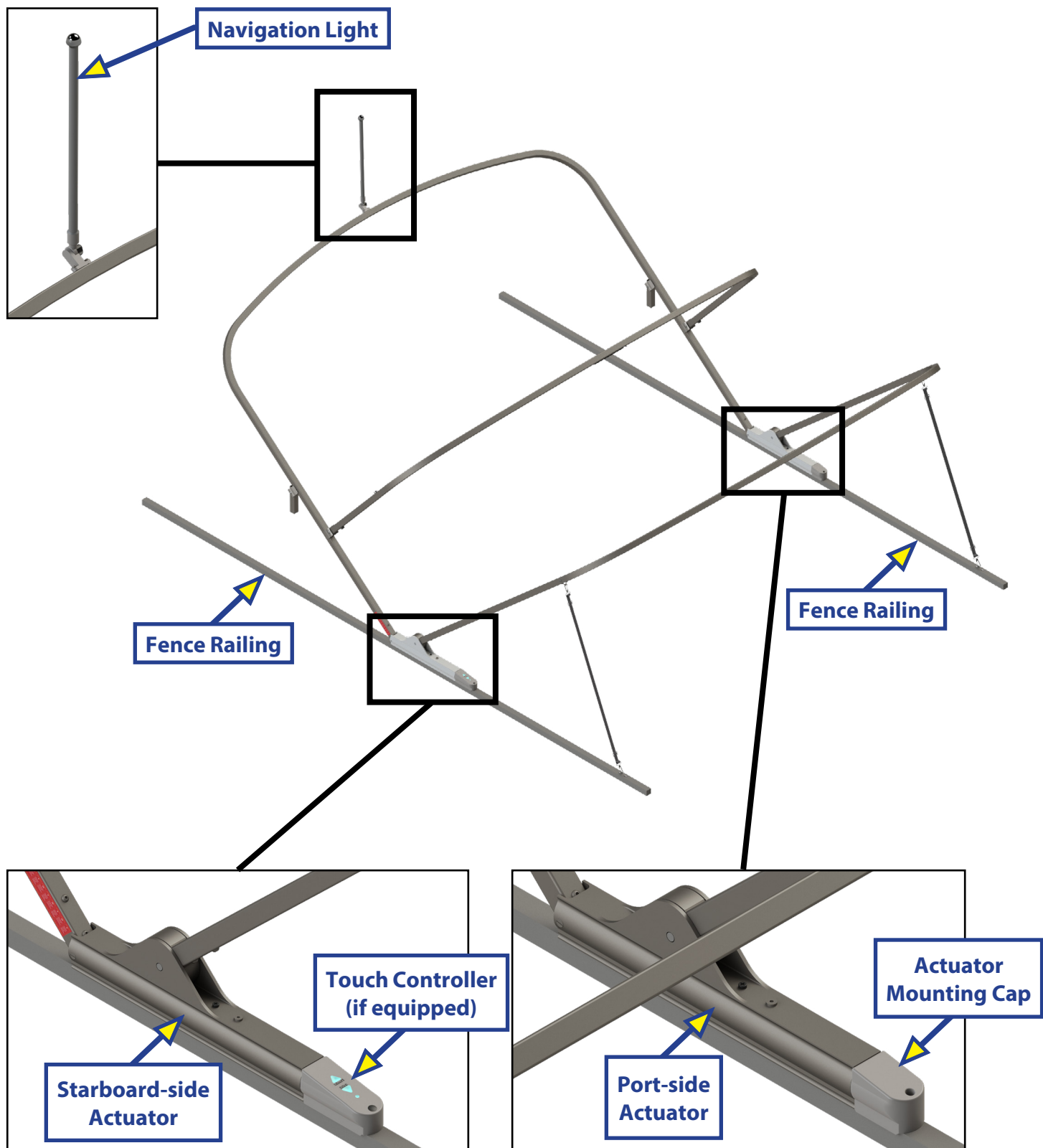
The front shade extension connects to the open zipper end of the bimini's storage pocket.

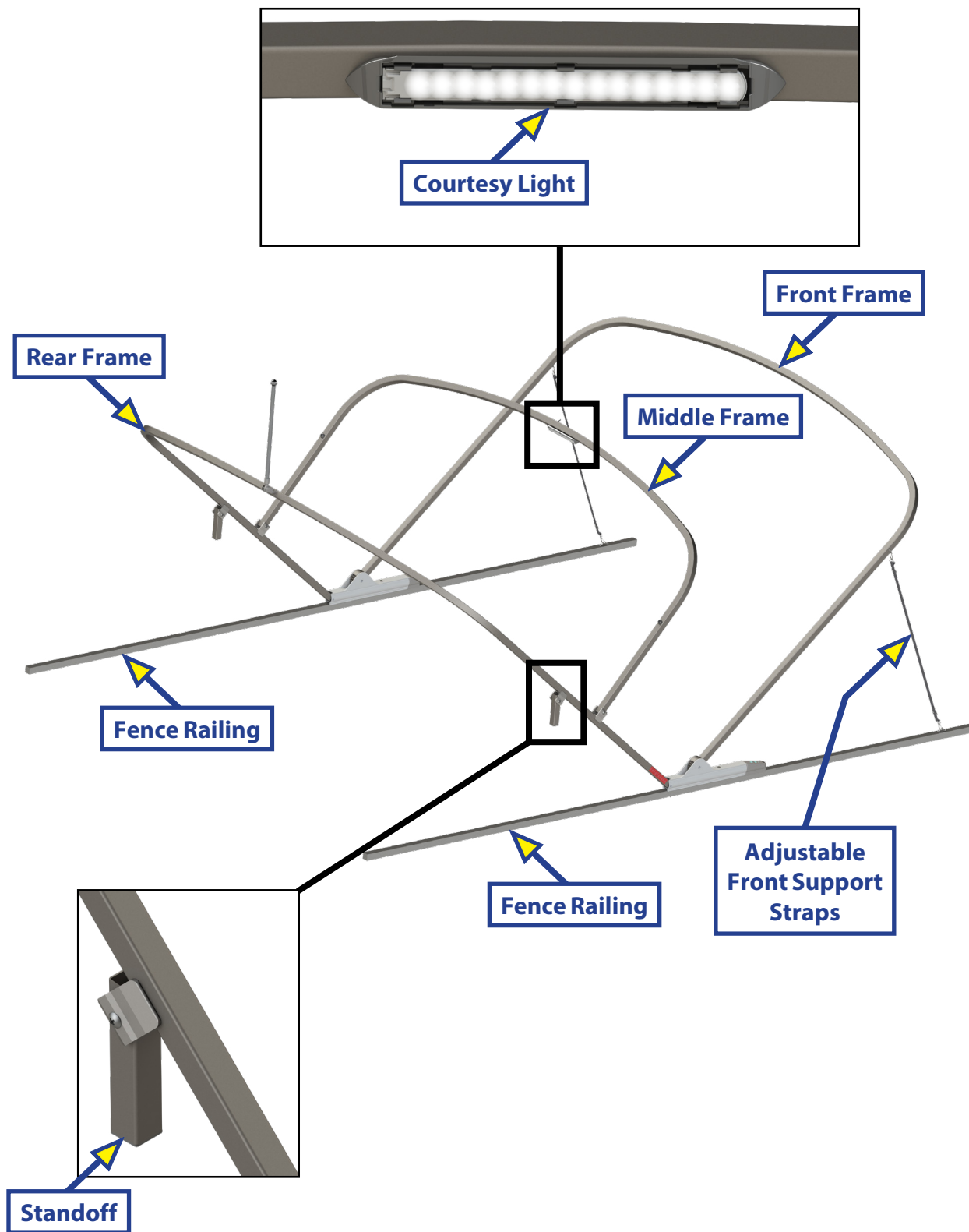
NOTE: When the bimini front shade extension is open the maximum speed rating is 15 mph.

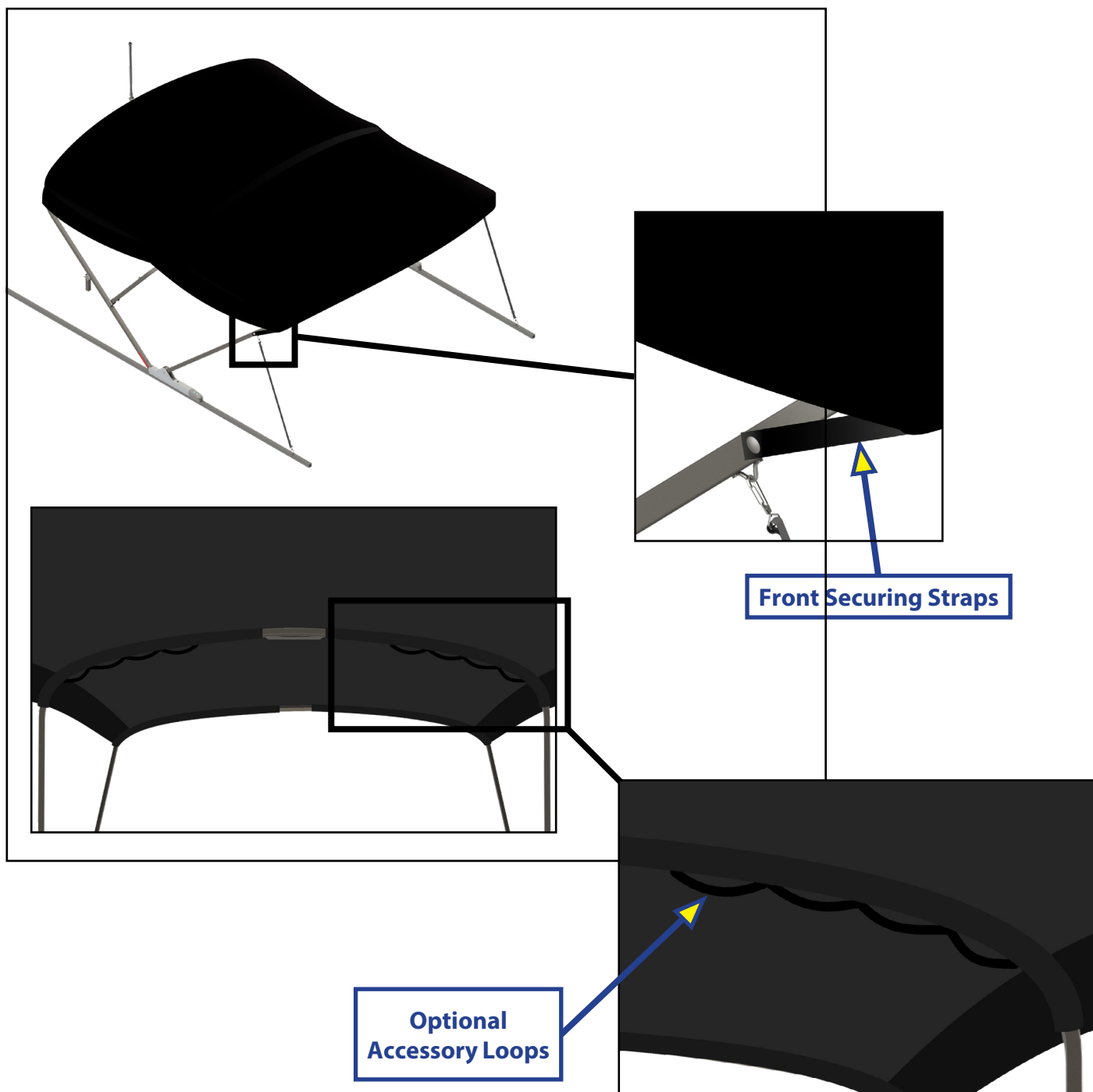
NOTE: Front support straps are **NOT** used when the front shade extension is in use. Disconnect front support straps and stow them in the bimini top's front zippered storage pocket before deploying the front shade extension. If so desired, reconnect the front support straps after the front shade extension has been disconnected and stowed.

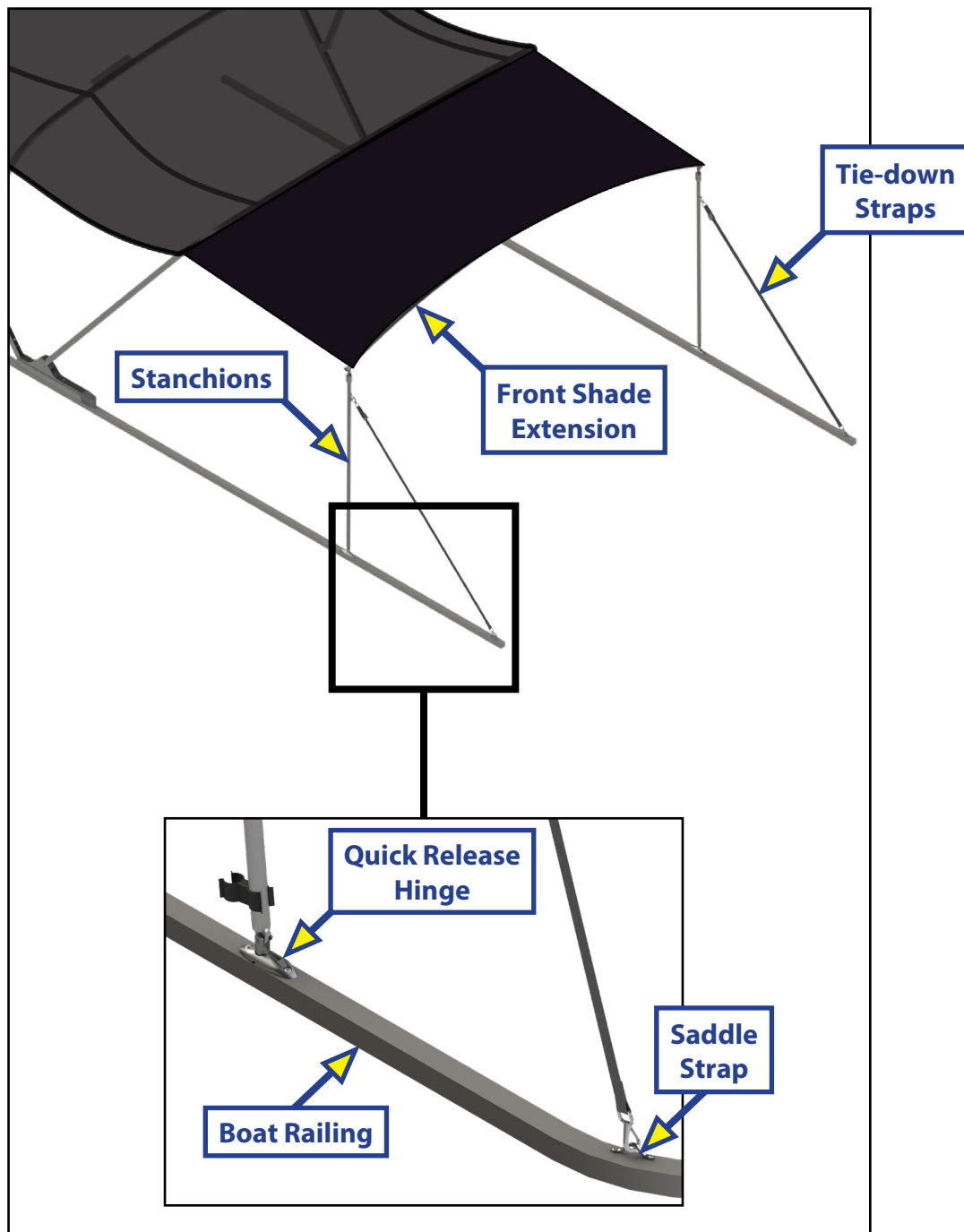
Front shade extension stanchions and tie-down straps are folded, rolled up inside the shade fabric and tucked into the bimini's front pocket for storage.

Two adjustable front support straps provide additional tension to the bimini top to help prevent vibration of the frame in high speed boating conditions. They are easily deployed and stored.



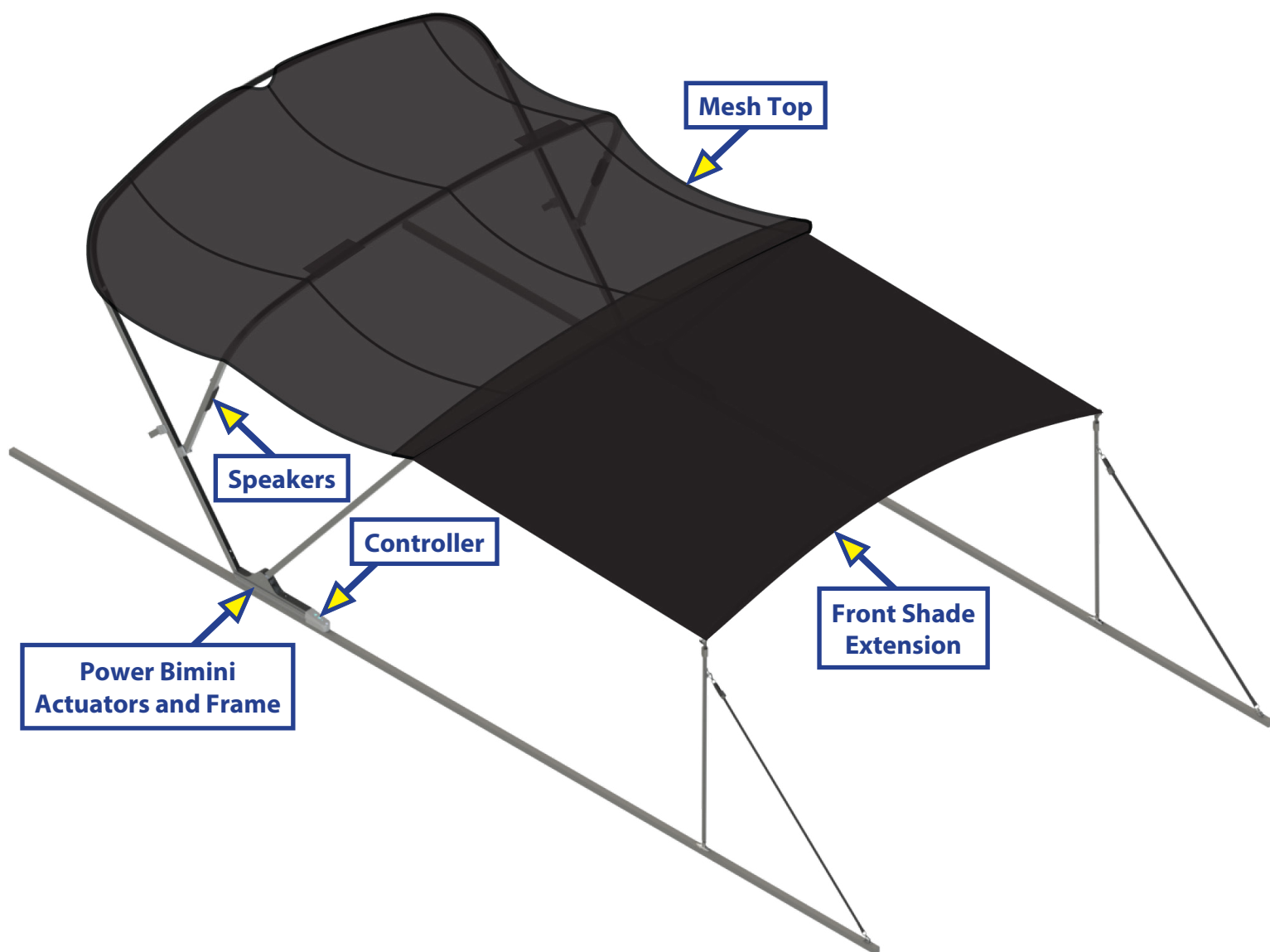








Complete Quick-Connect Bimini System—if so equipped



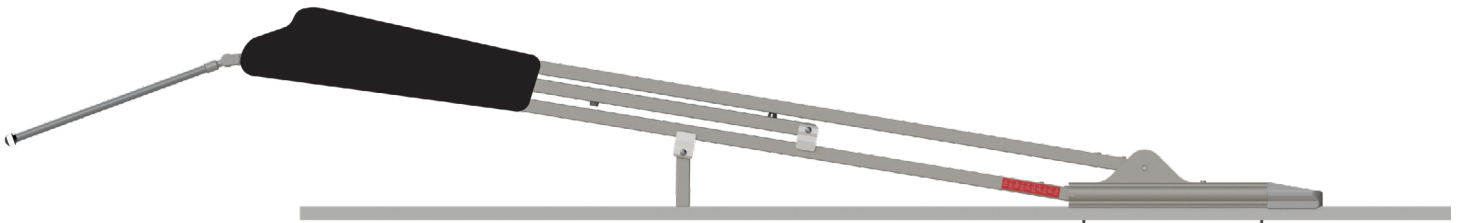
Bimini Top Positions

⚠ WARNING

Do NOT trailer or tow the boat without the protective boot properly installed on the top and without the top in its full down position. Trailering or towing the boat without the top in its full down position and without the protective boot properly installed can cause serious damage to the top's framework, which could cause severe product and/or property damage, including serious personal injury.

Fully Closed (Down)—Towing Position

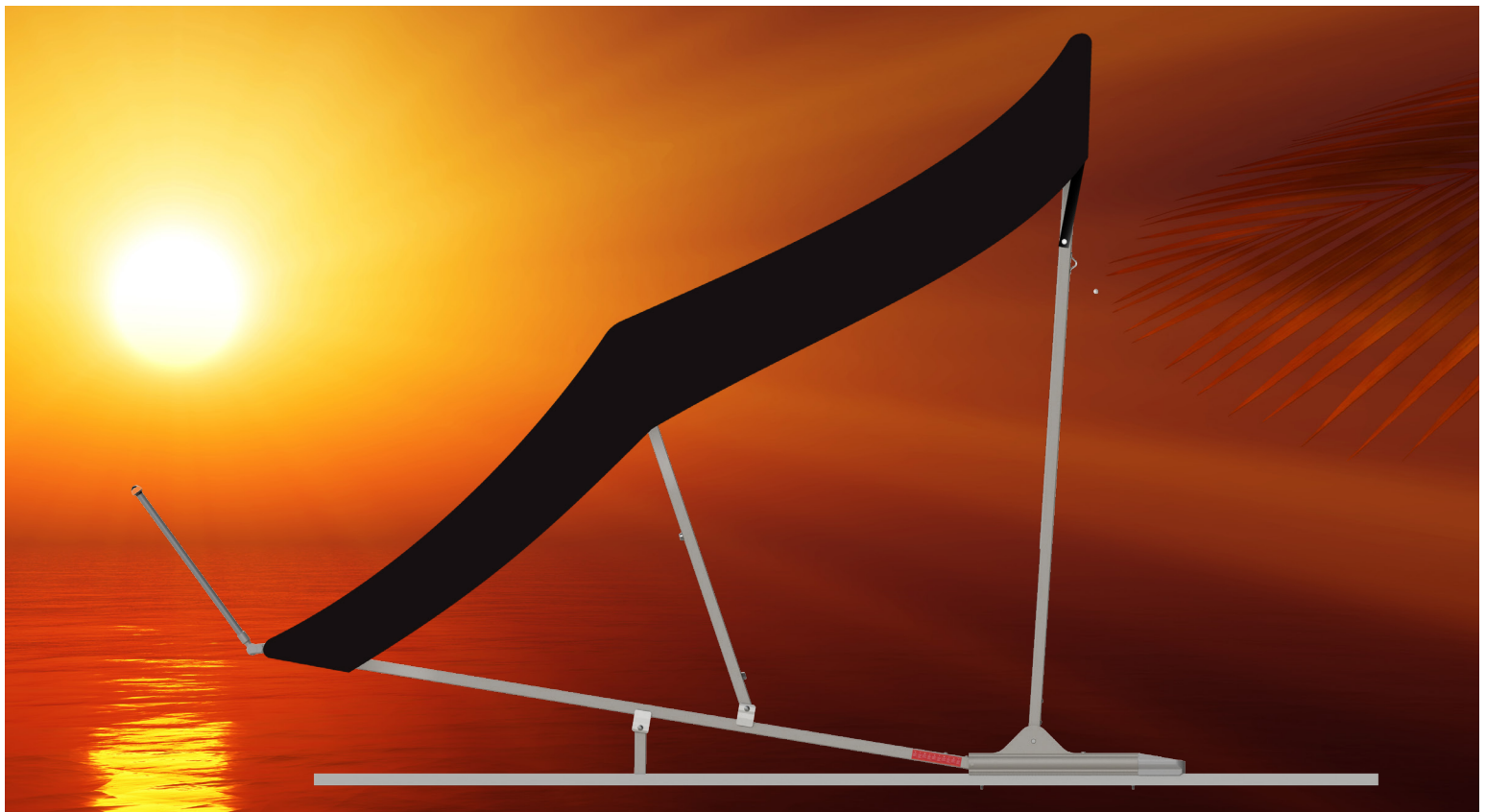
Install protective boot.



Vari-pitch—For Water Use Only

Remove protective boot. Maximum water speed limit 5 MPH.

Used for improved shade protection from late-day sun.

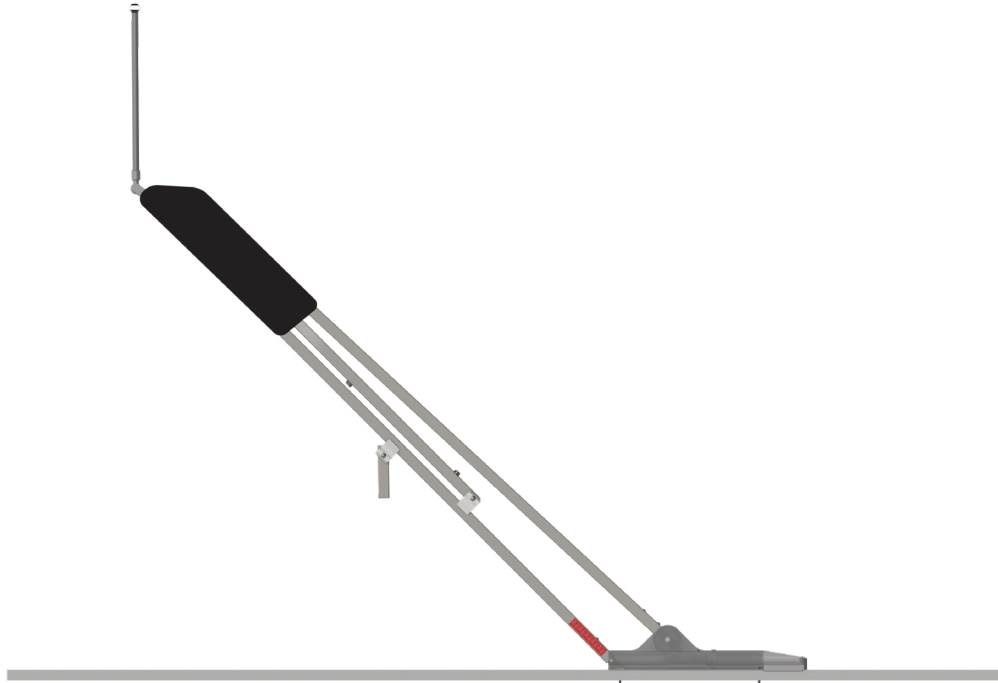


⚠ WARNING

Do **NOT** open or operate the top in excessively high winds. Having the top open or operating the top in high winds, regardless if the boat is in motion or anchored, can cause serious damage to the top's framework, which could cause severe product and/or property damage, including serious personal injury.

Radar—For Water Use Only

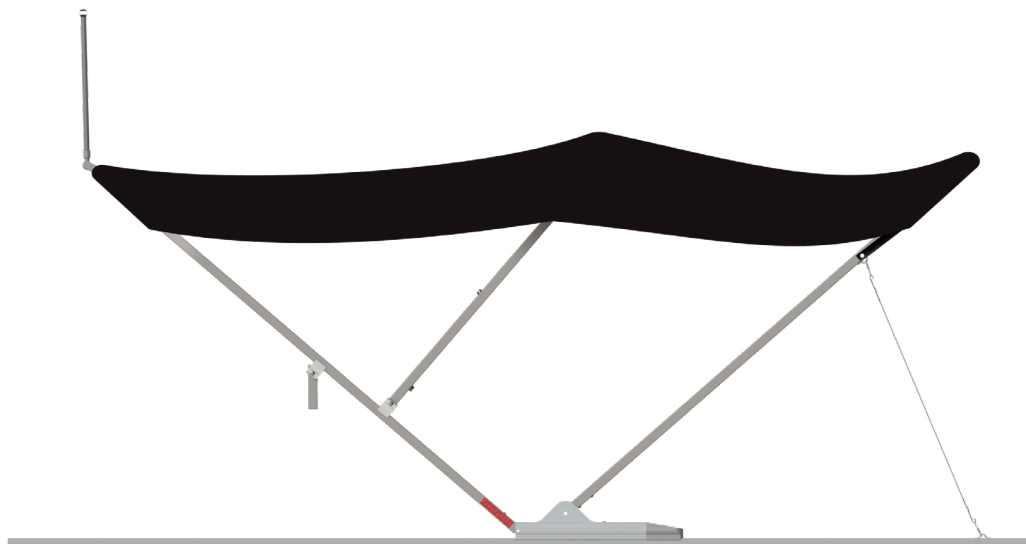
Install protective boot. Maximum water speed limit 50 MPH—**NOT** for trailering or towing.



Fully Opened (Up)—For Water Use Only

Remove protective boot. Maximum speed limit 25 MPH without front support straps connected. Maximum speed with front support straps connected is 45 mph.

NOTE: Do **NOT** open in excessively high winds.



Operation

⚠ WARNING

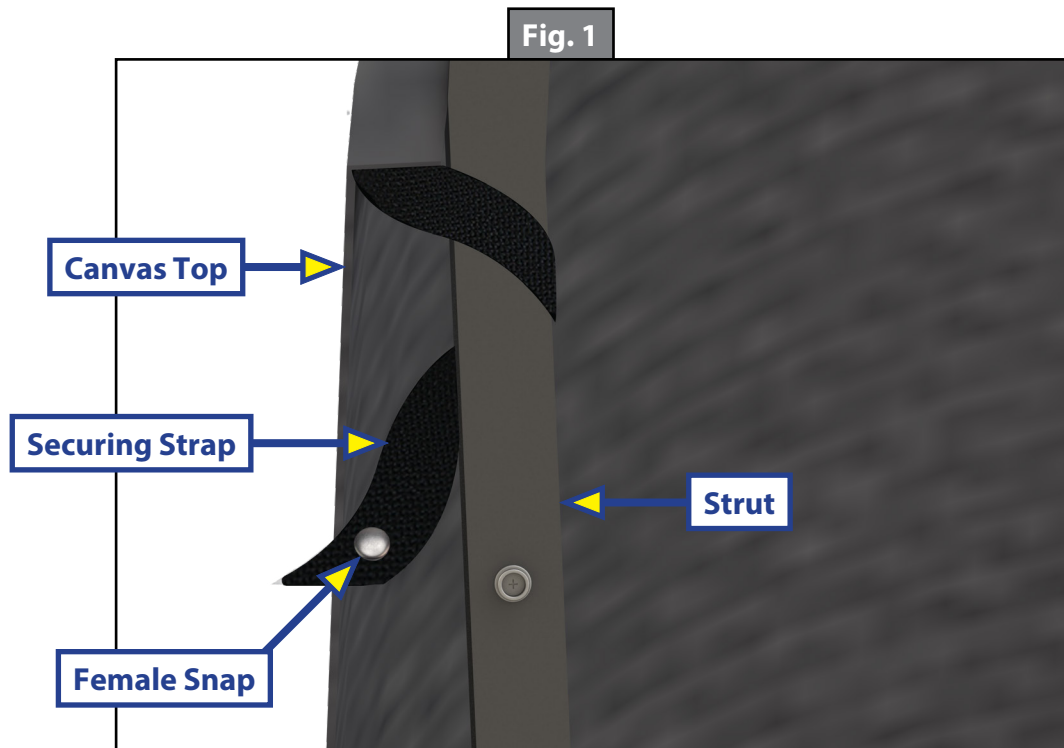
Before operating the power bimini top, thoroughly inspect the area around the entire bimini assembly. Verify that all passengers are in a safe position and that nobody is in an area that will interfere with the motion of the bimini or serious personal injury or severe product damage may occur.

⚠ WARNING

Never operate the top while the boat is in motion. Operating the top while the boat is in motion can cause serious damage to the top's framework, which could cause severe product and/or property damage including serious personal injury.

The canvas bimini top has securing straps with female snaps (Fig. 1) located at frame corners—which may be located at the bow port and starboard corners and/or aft port and starboard corners. Securing straps prevent undue billowing of the bimini top when installing the boot.

Make sure all securing straps are in place when installing the boot or operating the bimini top. If necessary, start at one canvas corner and tightly pull and wrap the securing strap around the bimini top strut (Fig. 1) and snap in-place. Repeat procedure as necessary for each securing strap.



The Power Bimini top can be operated in four different positions:

- Fully Closed for lifts, bridges and storage
- Vari-pitch for shade during low-setting sun conditions
- Radar for aft entry/exit
- Fully Opened for maximum shade

Helm-mounted Switch—if so equipped

For proper operation of the four available power bimini top positions from the helm-mounted switch, make sure:

1. The protective boot is properly installed when the top is in the Radar (Fig. 4) or Fully Closed (Fig. 5) position.
2. To press and hold the helm switch button until the actuator motor turns itself off, then release the switch button.
3. The protective boot is properly installed when the top is not in use.

Fully Closed (Down)—Towing Position

⚠ WARNING

Do NOT trailer or tow the boat without the protective boot properly installed on the top and without the top in its full down position. Trailering or towing the boat without the top in its full down position and without the protective boot properly installed can cause serious damage to the top's framework, which could cause severe product and/or property damage, including serious personal injury.

⚠ WARNING

Never operate the top while the boat is in motion. Operating the top while the boat is in motion can cause serious damage to the top's framework, which could cause severe product and/or property damage including serious personal injury.

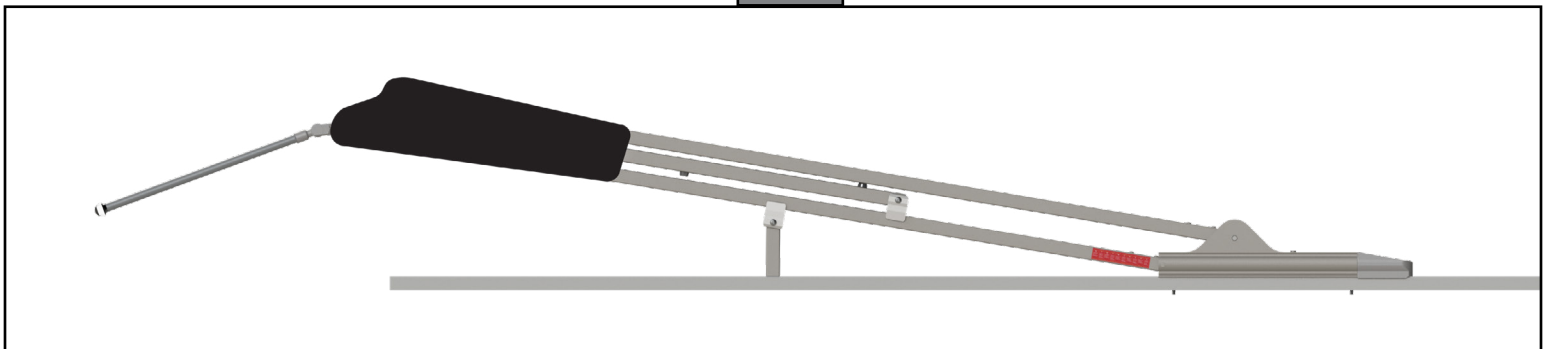
1. Press and hold the helm switch button until actuator motors turn off—do not release button until both actuator motors turn off.

NOTE: Do **NOT** operate or open top when boat is in motion or in excessively high winds.

2. Install protective boot (Fig. 2).

NOTE: Maximum speed limit with boot installed is 65 MPH.
Maximum speed limit without boot installed is 5 MPH.

Fig. 2



⚠ WARNING

Never operate the top while the boat is in motion. Operating the top while the boat is in motion can cause serious damage to the top's framework, which could cause severe product and/or property damage including serious personal injury.

⚠ WARNING

Never open or operate the top in excessively high winds. Having the top open or operating the top in high winds, regardless if the boat is in motion or anchored, can cause serious damage to the top's framework, which could cause severe product and/or property damage, including serious personal injury.

Used for improved shade protection from late-day sun.

1. Remove the protective boot.
2. Press and hold the helm switch button until desired position is reached (Fig. 3), then release button.

NOTE: Maximum water speed limit 5 MPH.

NOTE: Do **NOT** operate top when boat is in motion or in excessively high winds.

Fig. 3



⚠ WARNING

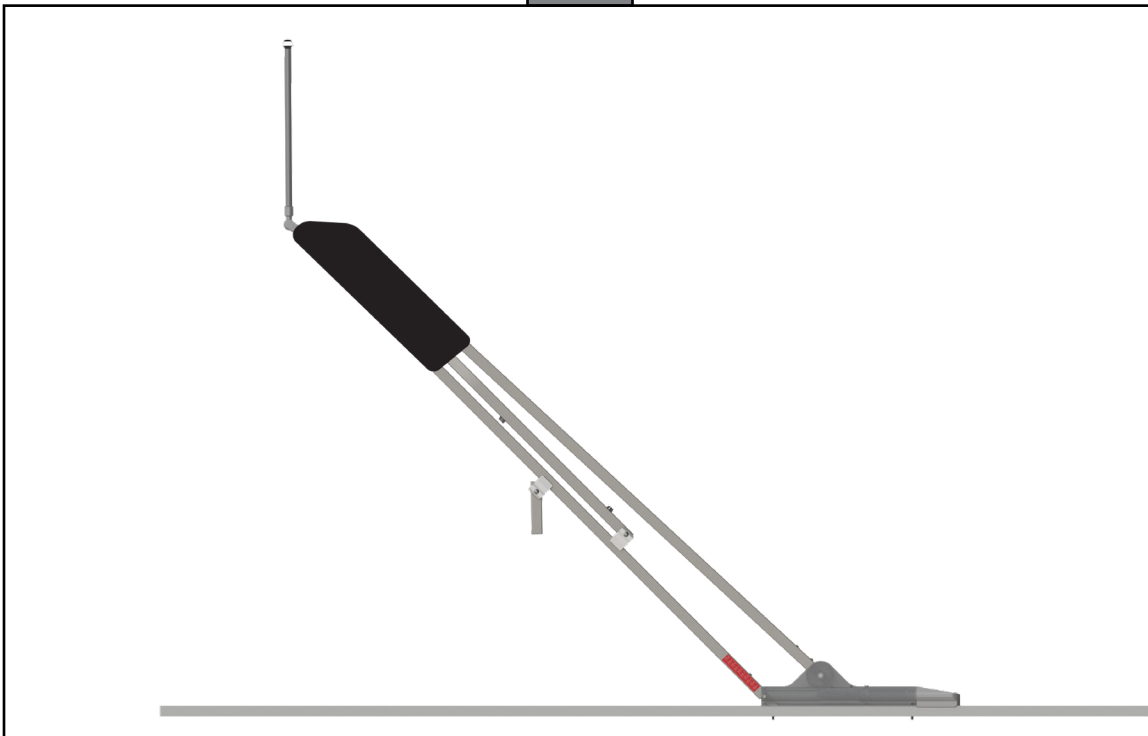
Never operate the top while the boat is in motion. Operating the top while the boat is in motion can cause serious damage to the top's framework, which could cause severe product and/or property damage including serious personal injury.

1. With the top in its fully closed position, make sure the protective boot is properly installed.
2. Press and hold the helm switch button until desired position is reached (Fig. 4), then release button.

NOTE: Maximum speed limit is 50 MPH—**NOT** for trailering or towing.

NOTE: Do **NOT** operate top when boat is in motion or in excessively high winds.

Fig. 4



Fully Opened (Up)—For Water Use Only

⚠ WARNING

Never operate the top while the boat is in motion. Operating the top while the boat is in motion can cause serious damage to the top's framework, which could cause severe product and/or property damage including serious personal injury.

⚠ WARNING

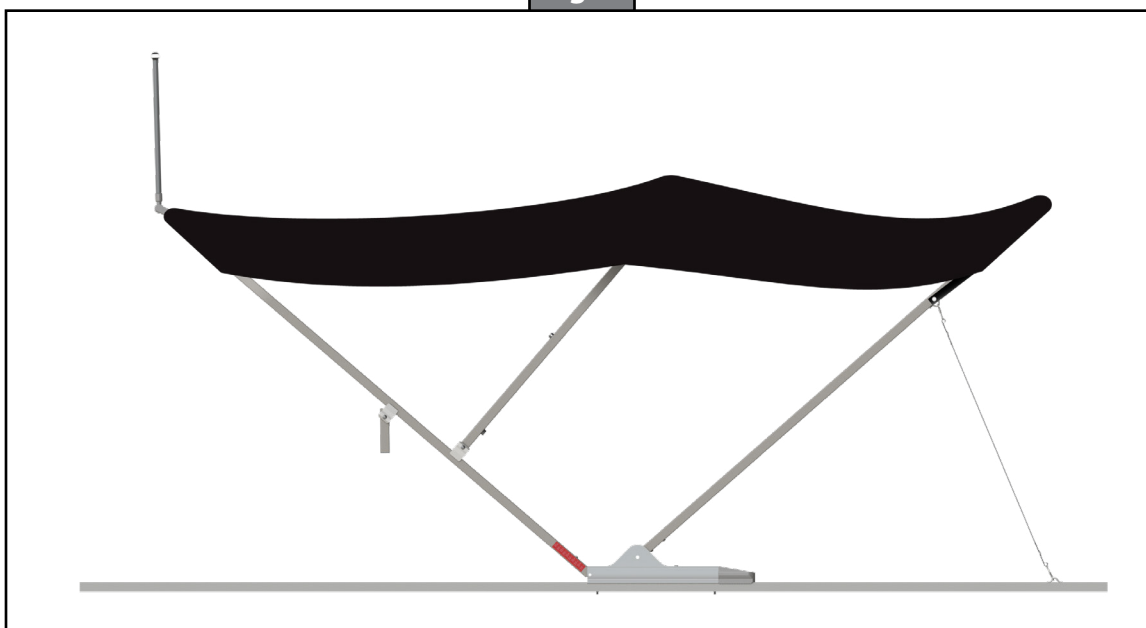
Never open or operate the top in excessively high winds. Having the top open or operating the top in high winds, regardless if the boat is in motion or anchored, can cause serious damage to the top's framework, which could cause severe product and/or property damage, including serious personal injury.

1. Remove the protective boot.
2. Press and hold the helm switch button until motors turn off (Fig. 5)—do not release button until both actuator motors turn off.

NOTE: Maximum speed limit is 25 MPH without front support straps connected.
Maximum speed limit with front support straps connected is 45 mph.

NOTE: Do **NOT** open in excessively high winds.

Fig. 5



⚠ WARNING

Never operate the top while the boat is in motion. Operating the top while the boat is in motion can cause serious damage to the top's framework, which could cause severe product and/or property damage including serious personal injury.

⚠ WARNING

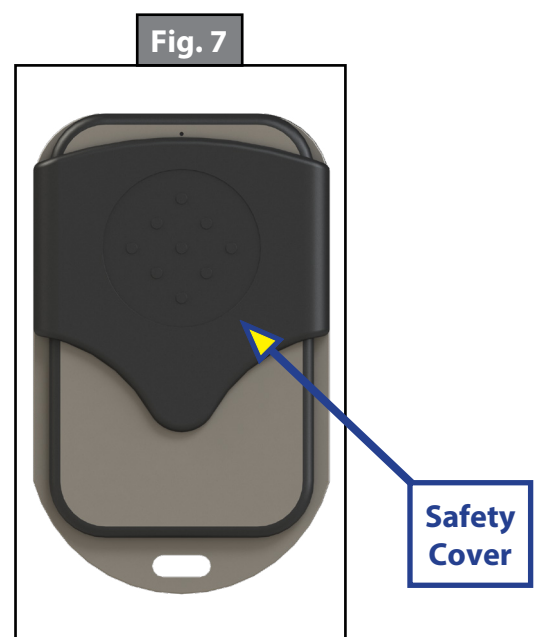
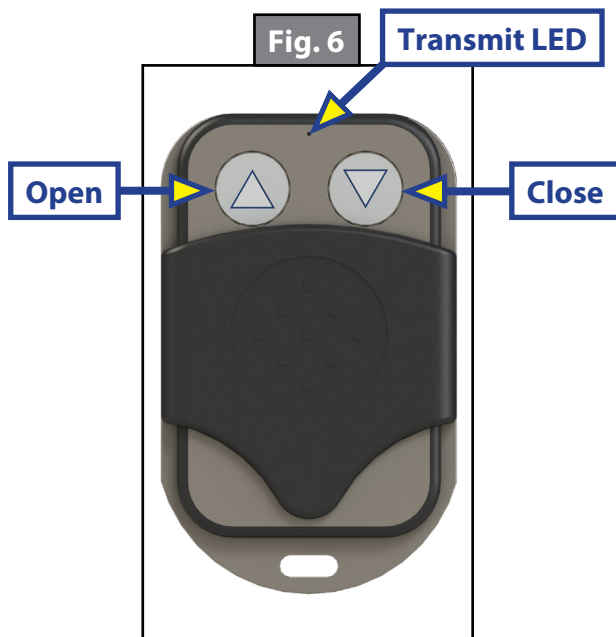
Never open or operate the top in excessively high winds. Having the top open or operating the top in high winds, regardless if the boat is in motion or anchored, can cause serious damage to the top's framework, which could cause severe product and/or property damage, including serious personal injury.

The Open/Close (△/▽) remote buttons (Fig. 6) are latching buttons, meaning that once a button is pressed, motion will automatically continue until the commanded position is reached.

NOTE: While in motion, pressing either button will immediately stop all motion. Keep the key-fob in-hand and be prepared to stop motion if necessary.

For proper operation of the four available power bimini top positions using the remote control key-fob, make sure:

1. Inspection of the bimini top area for safe operation is conducted.
2. The protective boot is installed, except for when in the Vari-pitch (Fig. 3) or Fully Opened (Fig. 5) position.
3. After the desired position is reached and motion has stopped, slide the safety cover (Fig. 7) up to cover the buttons and protect against any unintended transmissions.



WARNING

Never operate the top while the boat is in motion. Operating the top while the boat is in motion can cause serious damage to the top's framework, which could cause severe product and/or property damage including serious personal injury.

WARNING

Never open or operate the top in excessively high winds. Having the top open or operating the top in high winds, regardless if the boat is in motion or anchored, can cause serious damage to the top's framework, which could cause severe product and/or property damage, including serious personal injury.

Fully Closed Position

1. Press the Close (∇) button (Fig. 6) until motion begins, then release. Motion will continue and motors will automatically turn off (Fig. 5).
2. Slide safety cover up (Fig. 7).
3. Install the protective boot.

NOTE: Maximum speed limit with boot installed is 65 MPH.

NOTE: Maximum speed limit without boot installed is 5 MPH.

NOTE: Do **NOT** operate or open top when boat is in motion or in excessively high winds.

Vari-pitch Position

1. Remove the protective boot.
2. Press the Open ($\triangle$) button (Fig. 6) until motion begins, then release. When desired position is reached (Fig. 3), press either button to stop motion.
3. Slide safety cover up (Fig. 7).

NOTE: Maximum speed limit is 5 MPH.

NOTE: Do **NOT** operate or open top when boat is in motion or in excessively high winds.

Radar Position

1. With the top in its full down position, make sure the protective boot is properly installed.
2. Press the Open ($\triangle$) button (Fig. 6) until motion begins, then release. When desired position is reached (Fig. 4), press either button to stop motion.
3. Slide safety cover up (Fig. 7).

NOTE: Maximum speed limit is 50 MPH—**NOT** for trailering or towing.

NOTE: Do **NOT** operate top when boat is in motion or in excessively high winds.

Fully Opened Position

1. Remove the protective boot.
2. Press the Open ($\triangle$) button (Fig. 6) until motion begins, then release. Motion will continue and motors will automatically turn off.
3. Slide safety cover up (Fig. 7).

NOTE: Maximum speed limit is 25 MPH.

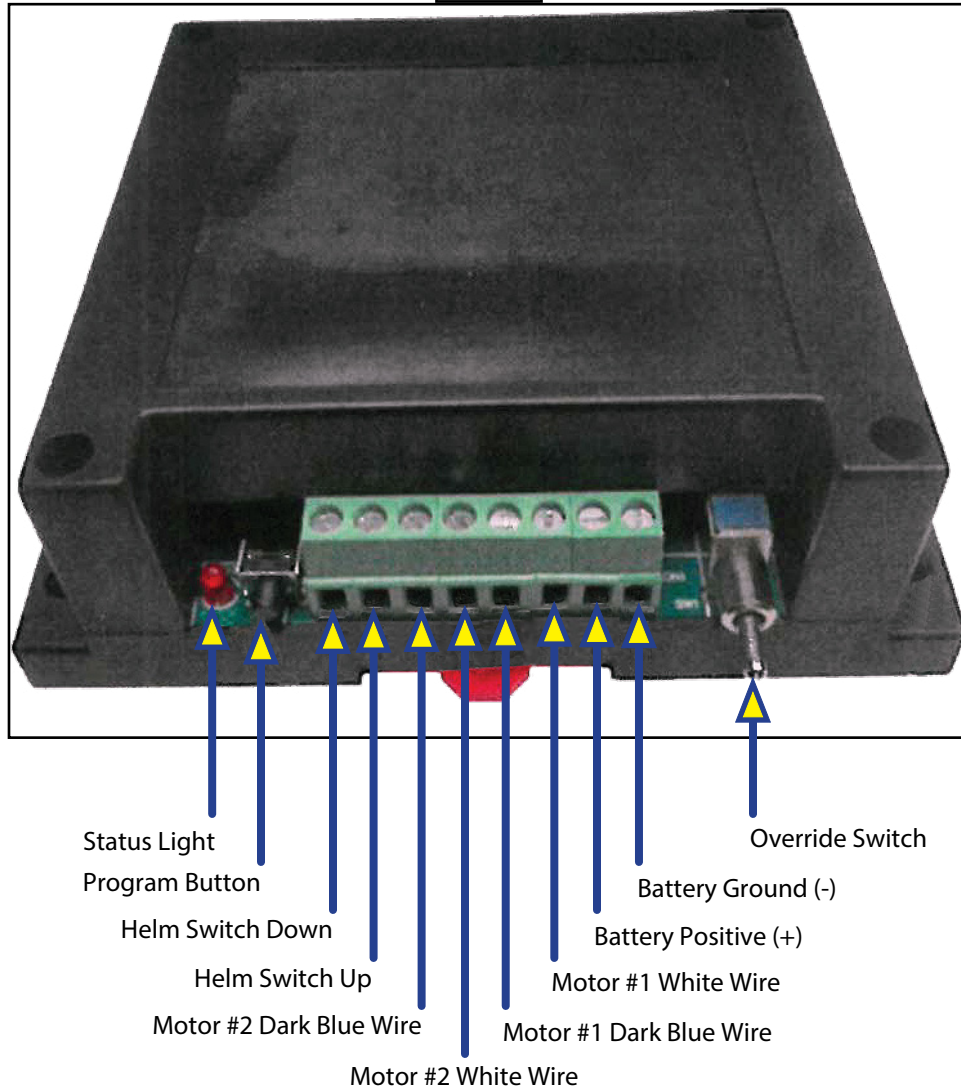
NOTE: Do **NOT** open in excessively high winds.

Programming Additional Key-Fobs (Remotes)—Optional

1. Locate the Program Button (Fig. 8) on the RF Receiver.
2. Press the Program Button until the red Status Light (Fig. 8) illuminates, then release the button and the Status Light will turn off.
3. Within five seconds, press any button on the key-fob (remote) (Fig. 6). Verify that the RF receiver Status Light blinks.
4. Repeat steps 1 and 2 for each additional remote.
5. Verify that each remote has been successfully programmed.

NOTE: To delete all key-fob remotes stored in memory, press and hold the Program Button for approximately five seconds until the red Status Light turns off.

Fig. 8



WARNING

Do NOT fully open the bimini frame without the canvas top installed. Opening the bimini frame without the canvas top installed will result in severe product damage. Only fully open the bimini frame with the canvas top installed.

WARNING

Do NOT open or operate the top in excessively high winds. Having the top open or operating the top in high winds, regardless if the boat is in motion or anchored, can cause serious damage to the top's framework, which could cause severe product and/or property damage, including serious personal injury.

WARNING

Do NOT operate the top while the boat is in motion. Operating the top while the boat is in motion can cause serious damage to the top's framework, which could cause severe product and/or property damage including serious personal injury.

Touch Controller or App—if so equipped

1. Remove the boot from the bimini top.
2. Turn on electrical power to the boat.
3. Use the Touch Controller or Bluetooth app to partially raise and lower the bimini top to ensure proper installation.

NOTE: Do **NOT** fully open the power bimini without the canvas top installed or failure of the system will result.

Using the Touch Controller

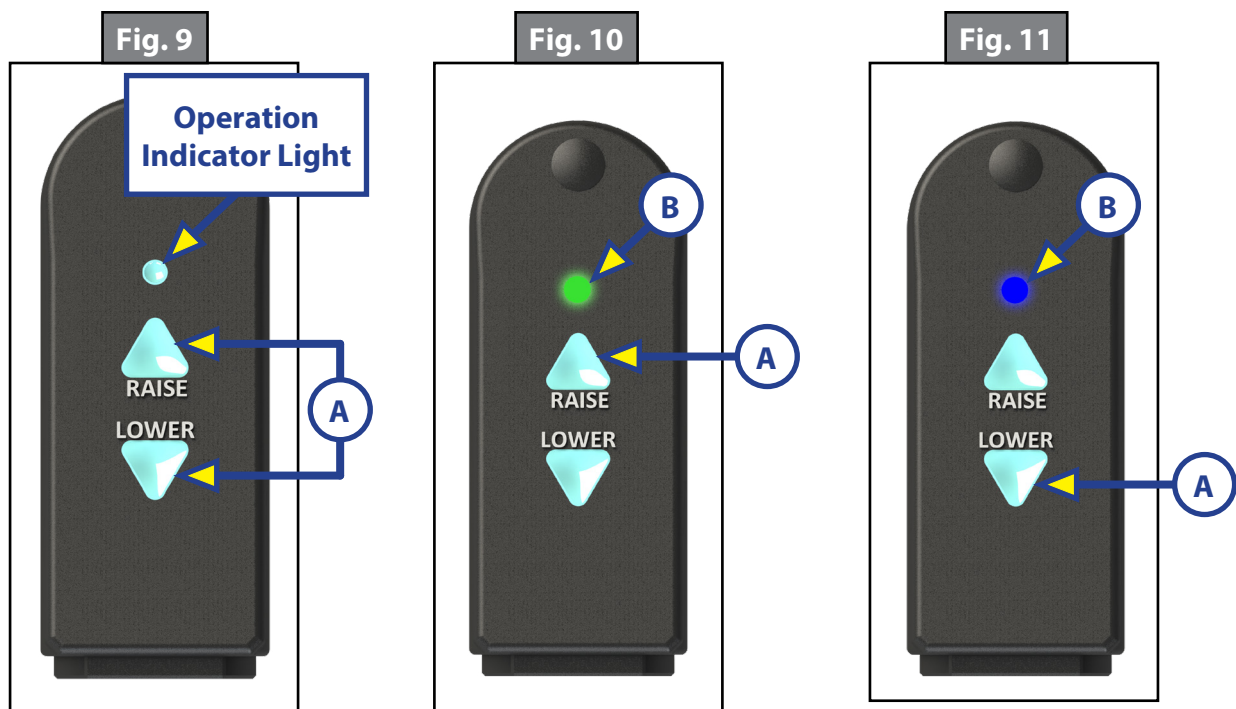
The power bimini system is designed to shut itself off when full travel has been achieved. The system will not open or close any farther once the system has achieved full travel until the opposite button has been touched.

The Touch Controller uses touch-sensitive buttons (Fig. 9A), which do not require the mechanical motion of depressing a button. Simply place, and keep, a finger on a touch control button to activate the system. Removing the finger from a touch control button immediately stops the system; the bimini top remains in the halted state (configuration) until a touch control button is touched again.

1. Touch and hold the controller's **RAISE** button (Fig. 10A) to fully extend the bimini top.

NOTE: Do **NOT** fully open the power bimini without the canvas top installed or failure of the system will result.

- A. The controller's operation indicator light will turn on green (Fig. 10B).
 - B. The light will turn off after the system has completed its travel.
2. Touch and hold the controller's **LOWER** button (Fig. 11A) to fully retract the bimini top.
 - C. The controller's operation indicator light will turn on blue (Fig. 11B).
 - D. The light will turn off after the system has completed its travel.
3. Alternately operate the controller's **RAISE** and **LOWER** buttons to place the bimini top in various positions to ensure proper touch controller installation.



Using the Bluetooth® Compatible App

The SureShade app operates in the same fashion as the physical controller. There is no operation indicator light on the control button screen.

If using an iOS (Apple) smart device, do as follows:

1. Search the App Store for the SureShade Bimini Control app.

NOTE: When using SureShade as the search criteria, more than one SureShade app may appear (Fig. 12A). Make sure to select SureShade Bimini Control (Fig. 12B).

- A. Download and open the app (Fig. 12C).
- B. Tap the I Accept button (Fig. 13A) to accept the License Agreement.

Fig. 12

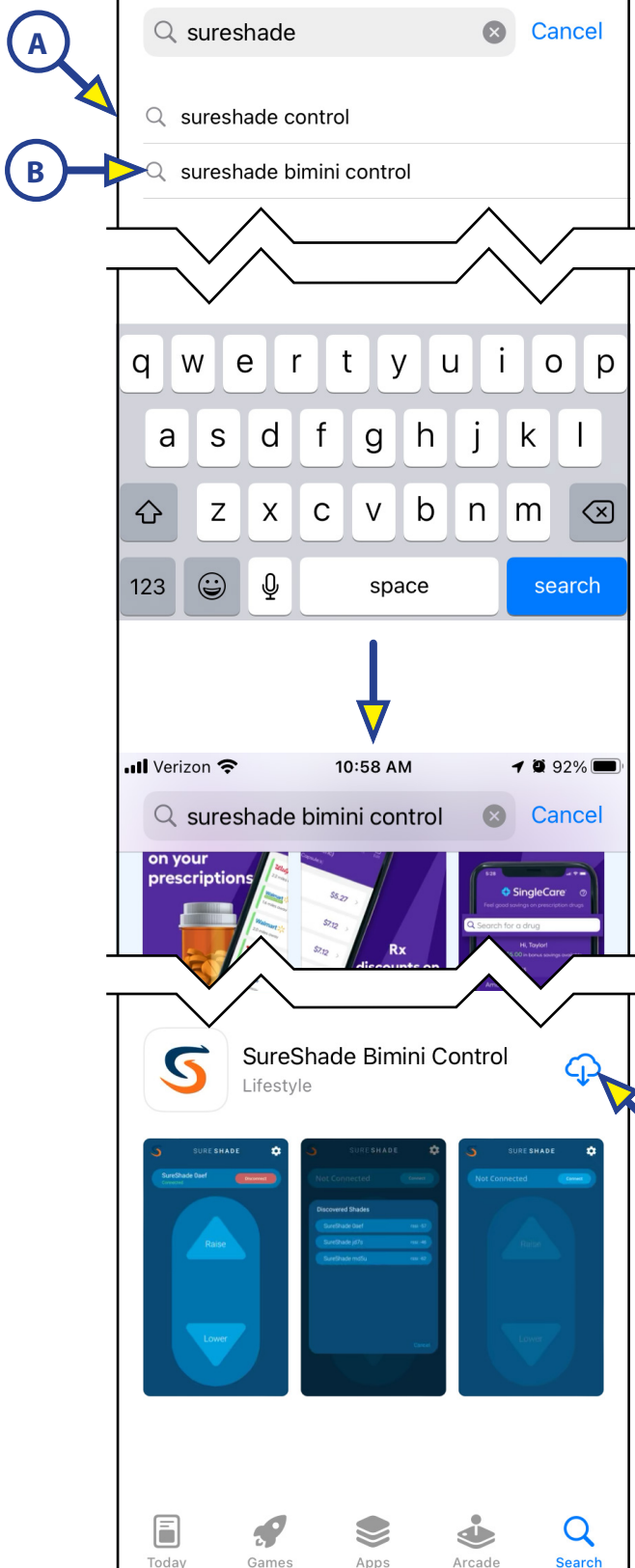
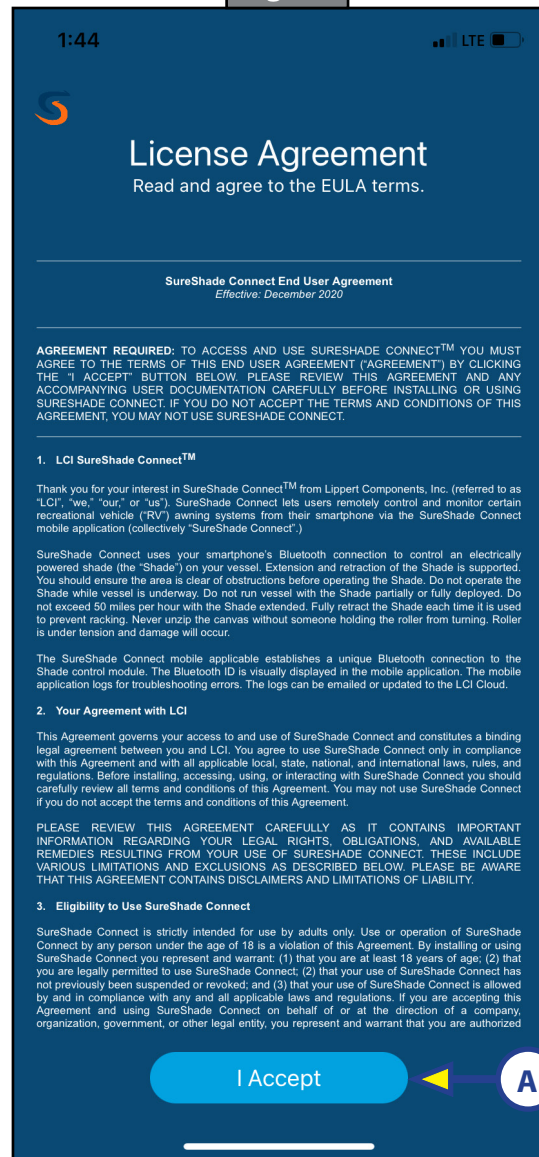
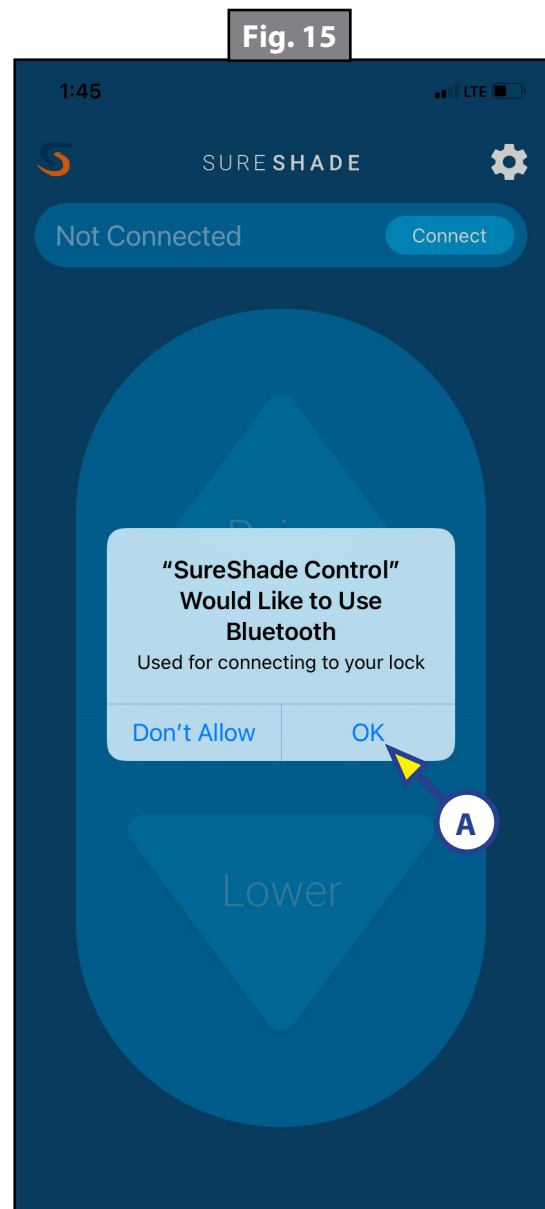
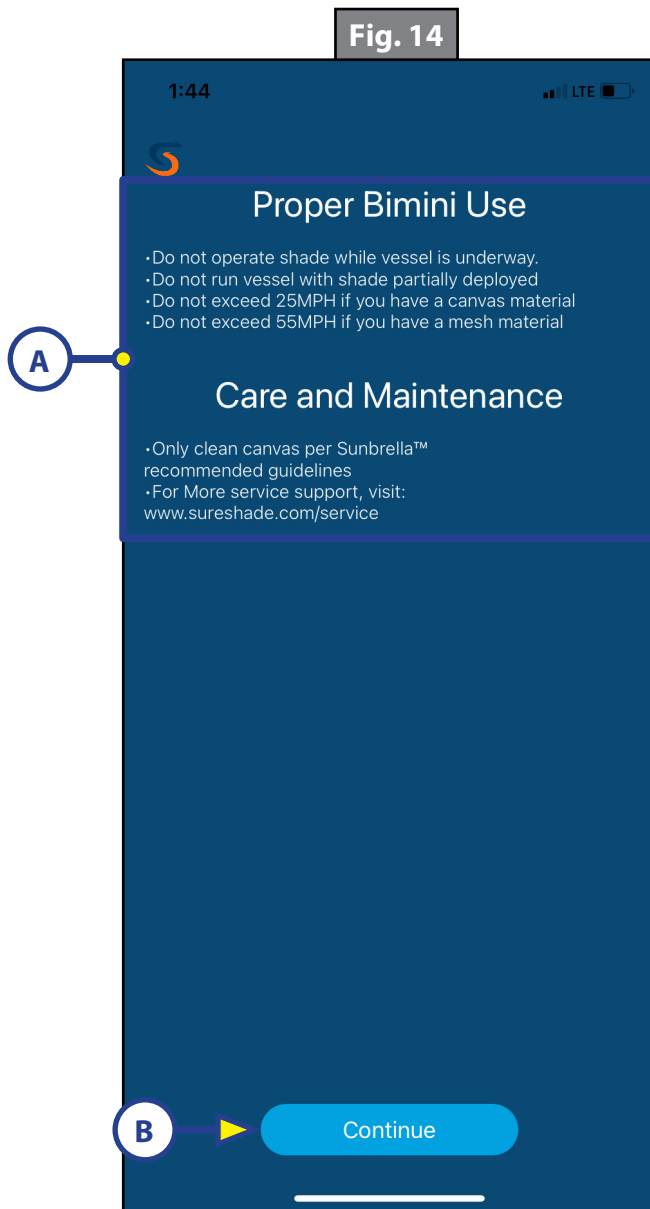


Fig. 13

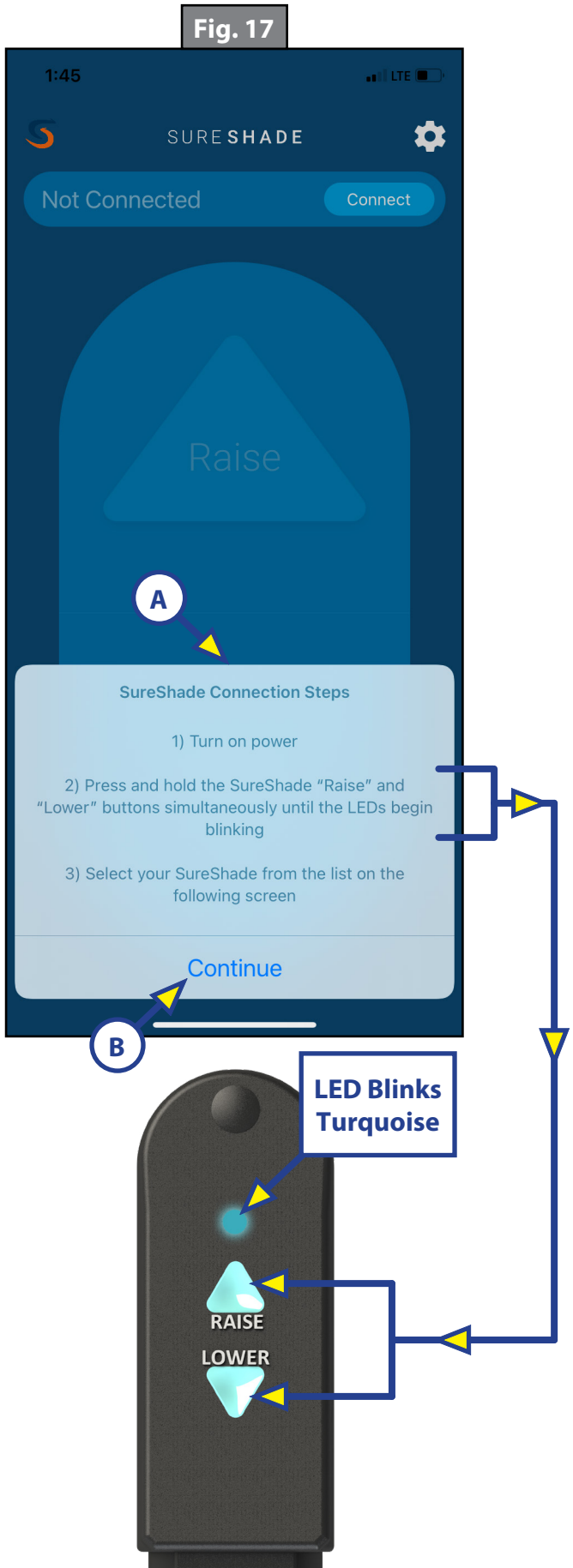


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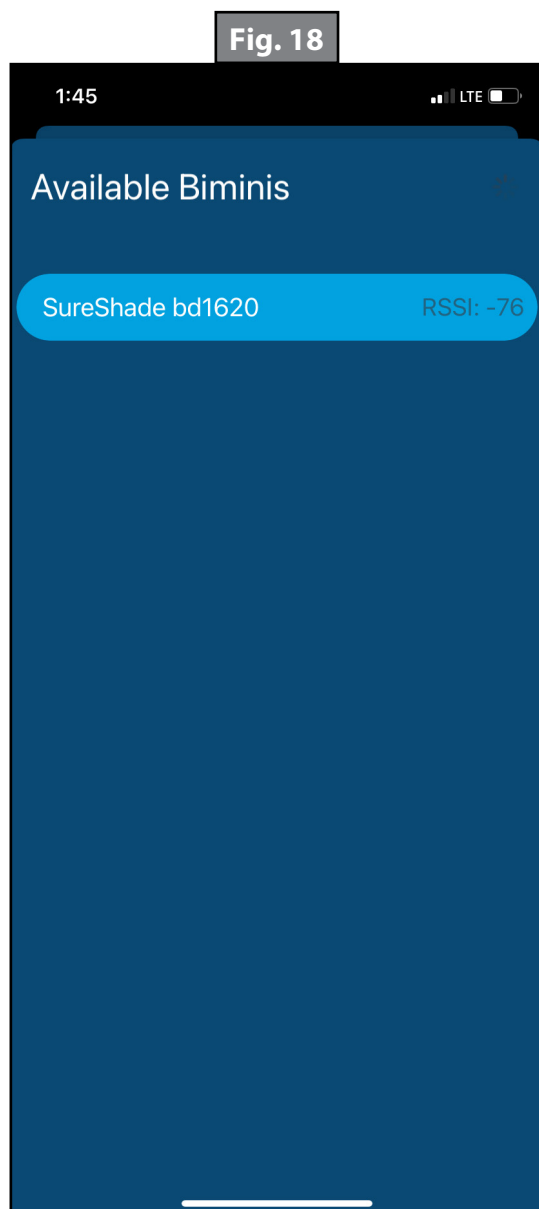
- C. Read the Proper Bimini Use and Care and Maintenance statements (Fig. 14A), then tap the Continue button (Fig. 14B).
- D. Tap OK for Bluetooth (Fig. 15A).



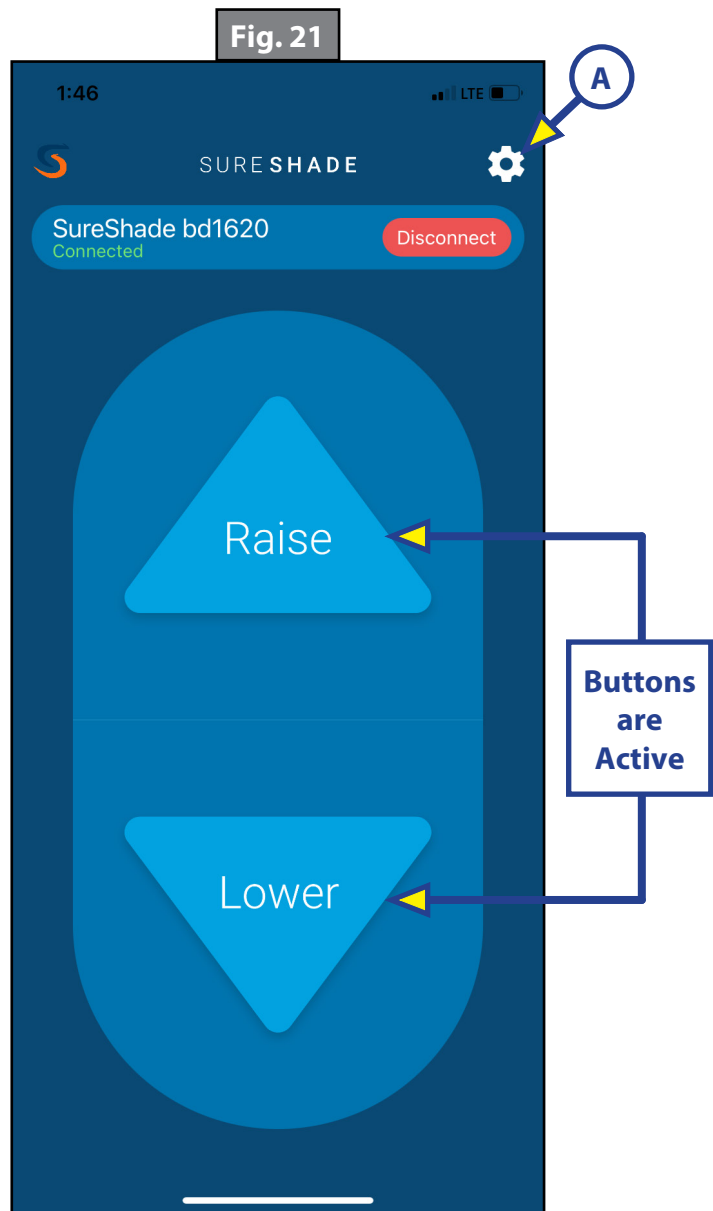
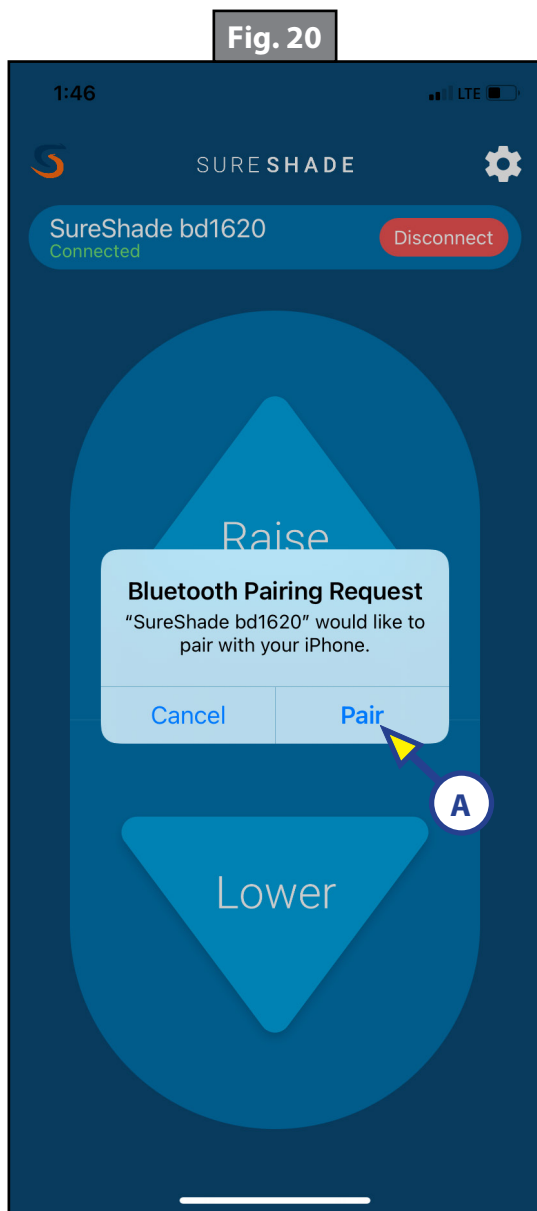
- E. Tap the Connect button (Fig. 16A).
- F. Follow the SureShade Connection Steps (Fig. 9A), then tap Continue (Fig. 17B).



- G. Select the desired bimini from the Available Biminis list (Fig. 18).
- H. The Touch Controller will begin pairing itself with the smart device (Fig. 19).



- I. Tap the Pair button (Fig. 20A) to complete the connection.
- J. The controller and the paired smart device are now connected and the **Raise** and **Lower** buttons are now active (Fig. 21).



⚠ WARNING

Do NOT open the bimini top in strong winds. Opening the top in strong winds could result in severe product damage. Only open the bimini top under normal wind conditions.

- K. Tap and hold the **Raise** button (Fig. 22A) to extend the bimini top.

NOTE: Do **NOT** fully open the power bimini without the canvas top installed or failure of the system will result.

- L. Tap and hold the **Lower** button (Fig. 23A) to retract the bimini top.
- M. Alternately operate the app's **Raise** and **Lower** buttons to place the bimini top in various positions to ensure a good Bluetooth connection.

Fig. 22

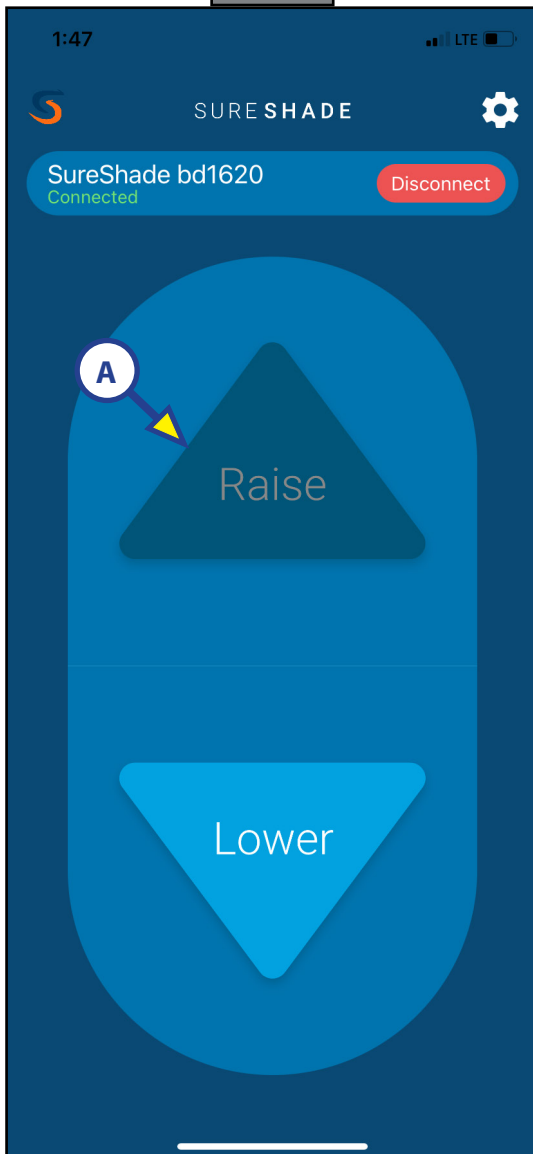


Fig. 23



2. To disconnect and unpair the iOS smart device from the connected controller, do as follows:
 - A. With the app open to the **Raise** and **Lower** button screen (Fig. 21), tap the gear icon (Fig. 21A) to access the Settings screen (Fig. 24).
 - B. Tap the slider button (Fig. 24A) to turn Auto-Reconnect on so the smart device will always automatically reconnect with the controller.
 - C. Tap the slider button again to turn Auto-Reconnect off (Fig. 25A).
 - D. Tap the Unpair button (Fig. 25B) for the paired/connected shade.

Fig. 24

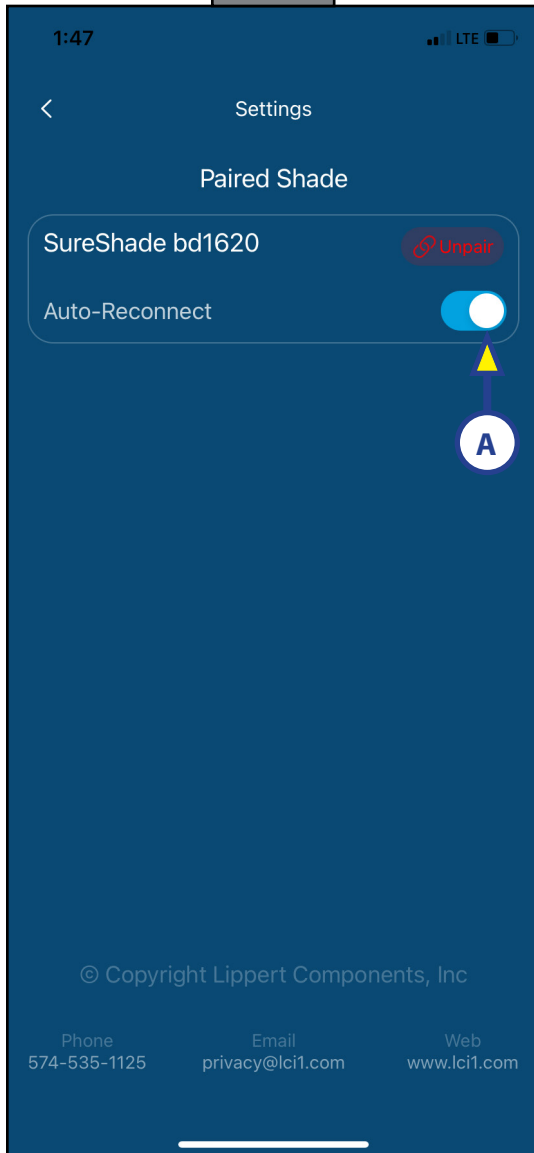
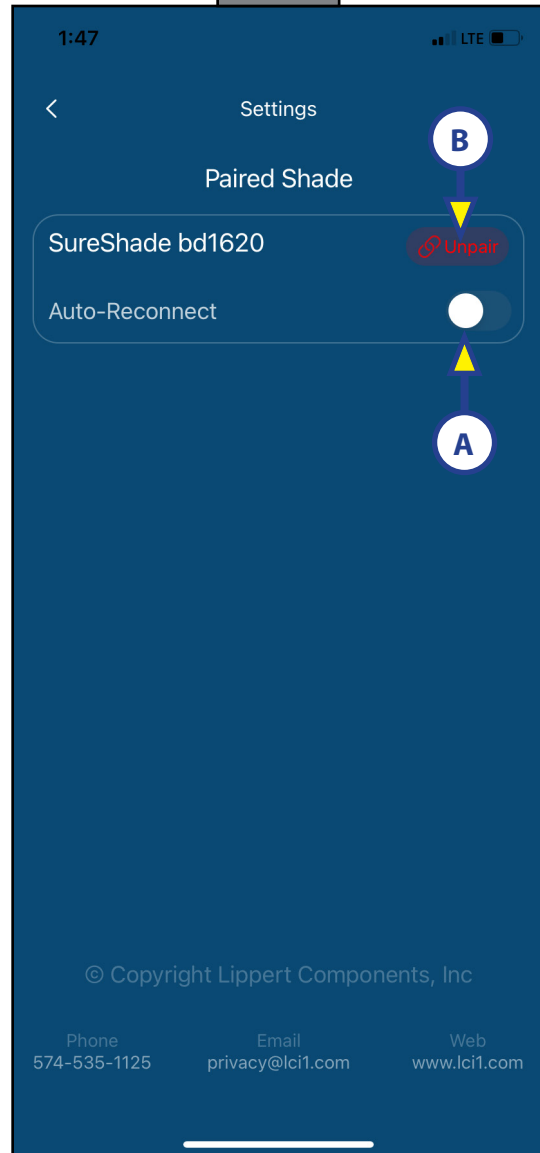
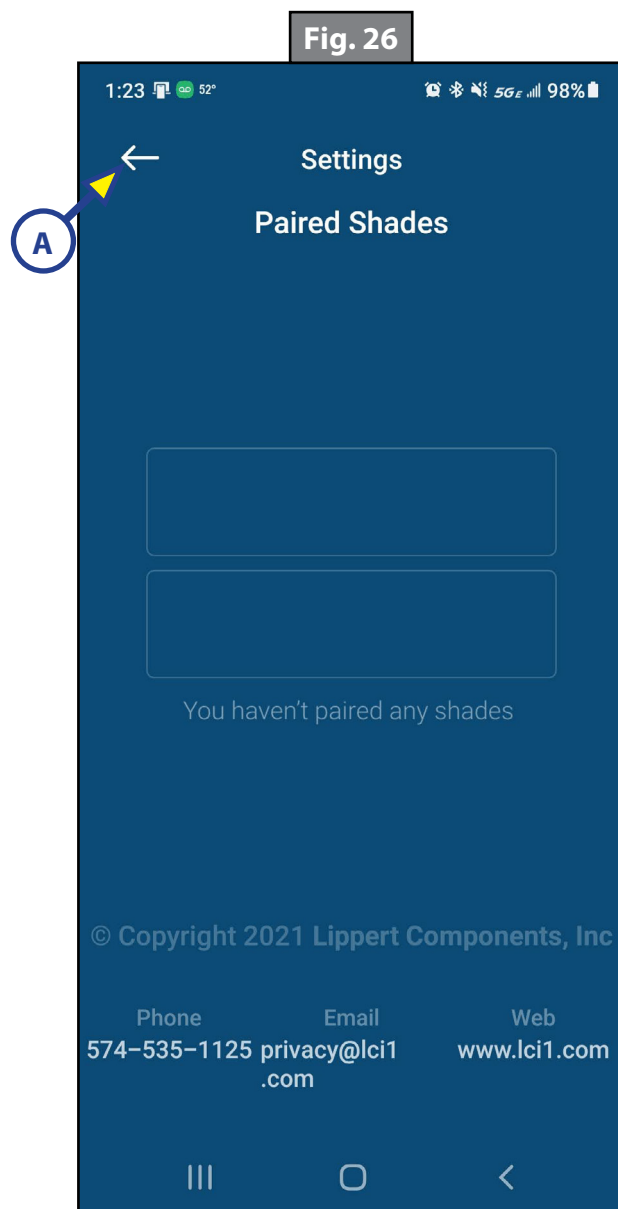


Fig. 25



- E. The Paired Shades screen (Fig. 26) will reflect the removed shade.
- F. Tap the Back arrow (Fig. 26A) to return to the Connect screen (Fig. 17).



If using an Android smart device, do as follows:

1. Search the Google Play Store for the SureShade Connect app.

NOTE: When using SureShade as the search criteria, more than one SureShade app may appear. Make sure to select SureShade Connect (Fig. 27A).

Fig. 27

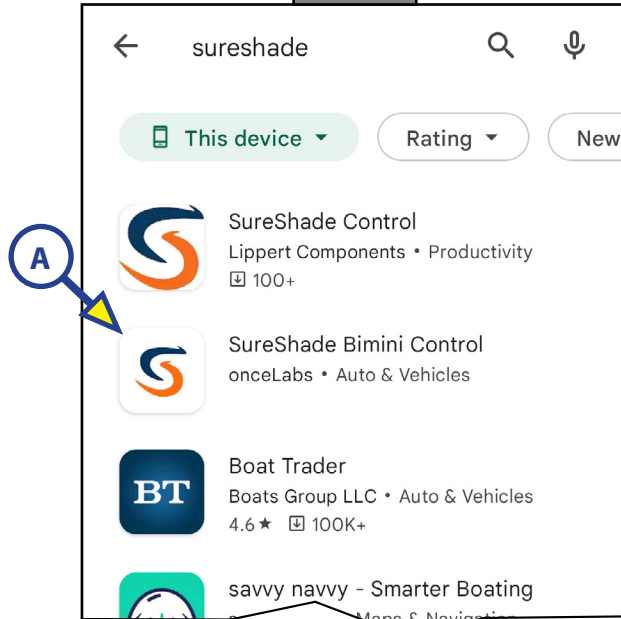


Fig. 28

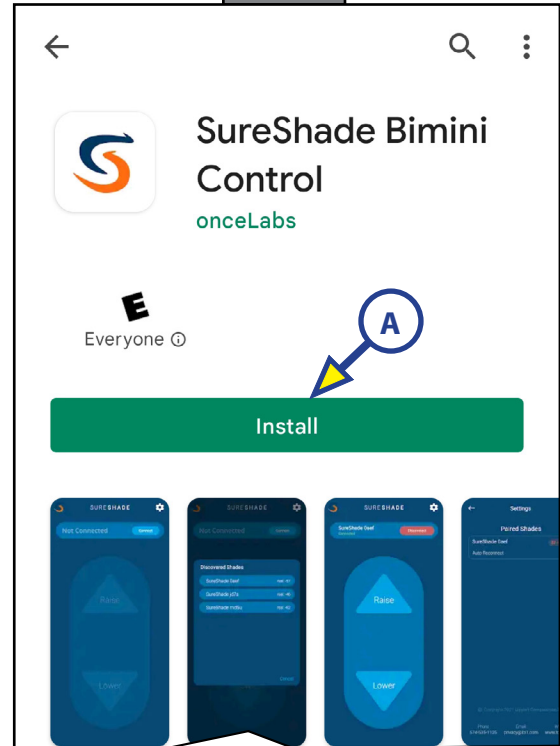


Fig. 29



- A. Tap Install button (Fig. 28A) and open the app (Fig. 29).
- B. Tap the I Accept button (Fig. 30A) to accept the License Agreement.
- C. Read the Proper Bimini Use and Care and Maintenance statements (Fig. 31A), then tap the Continue button (Fig. 31B).

Fig. 30

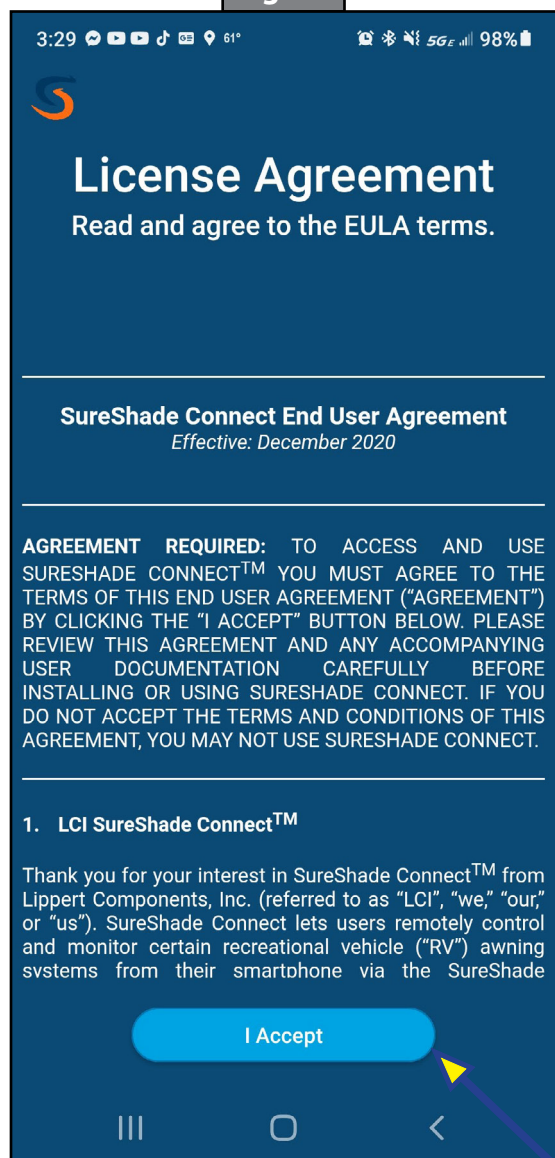
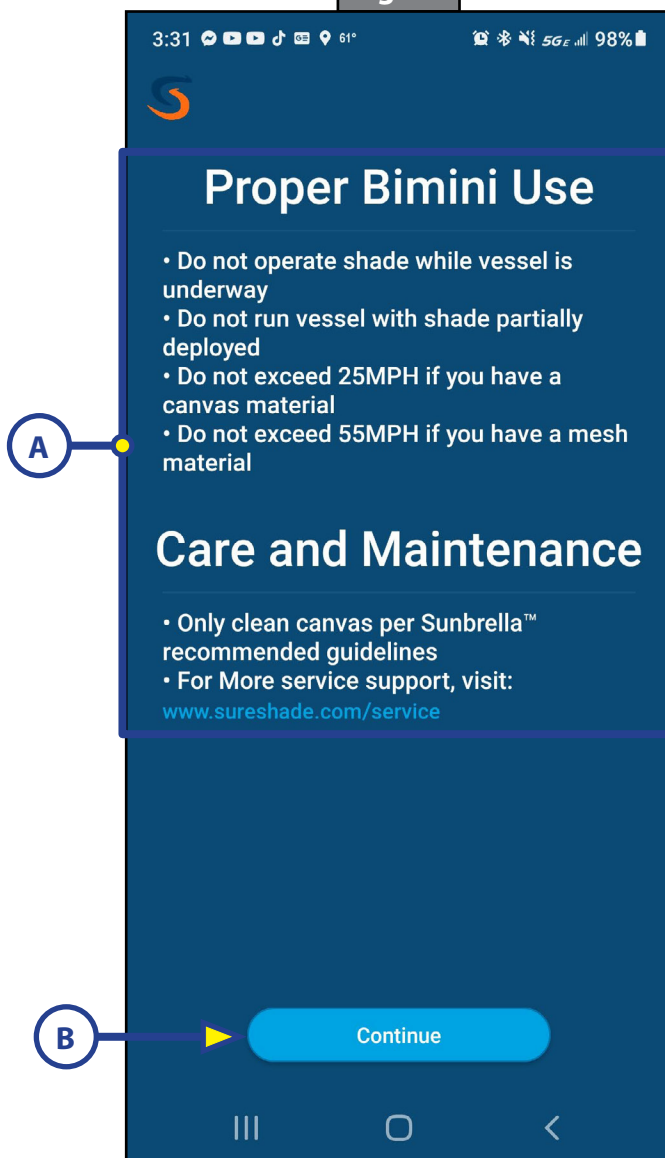
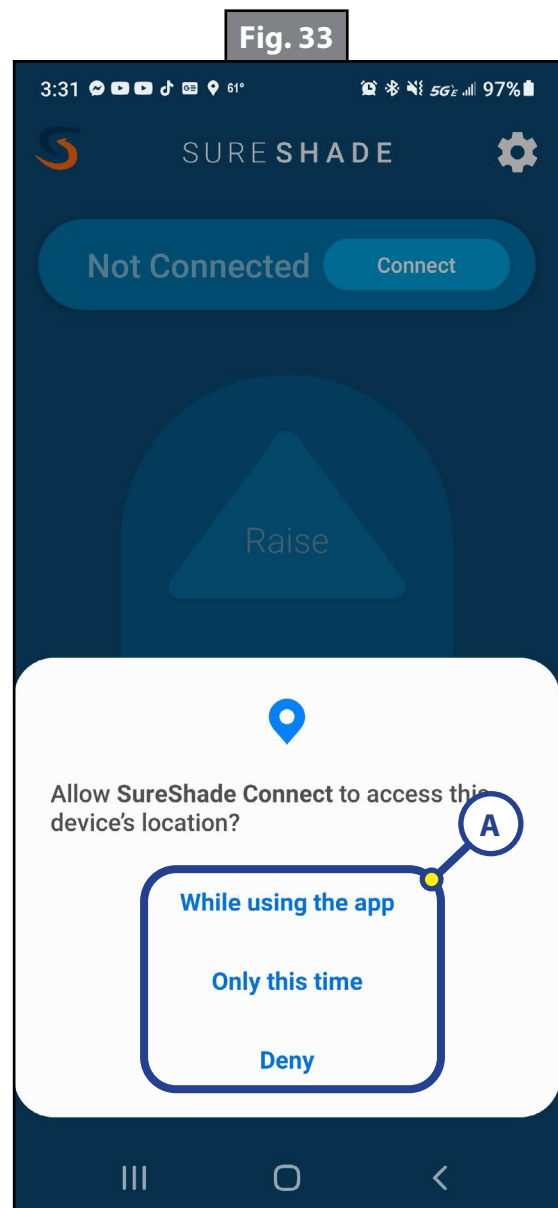
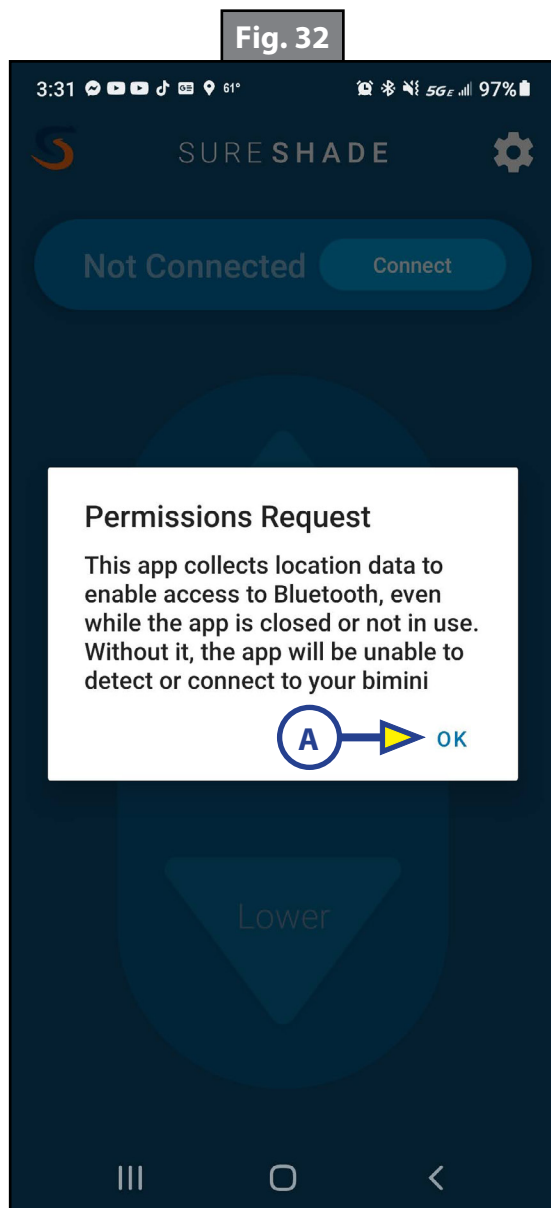


Fig. 31



- D. Tap OK (Fig. 32A) in the Permissions Request window.
- E. Tap the desired option (Fig. 33A) to grant the app access to the device's location.

NOTE: Lippert recommends selecting the "While using the app" option.



F. Tap the Connect button (Fig. 34A).

G. Follow the SureShade Connection Steps (Fig. 35A), then tap Continue (Fig. 35B).

Fig. 34

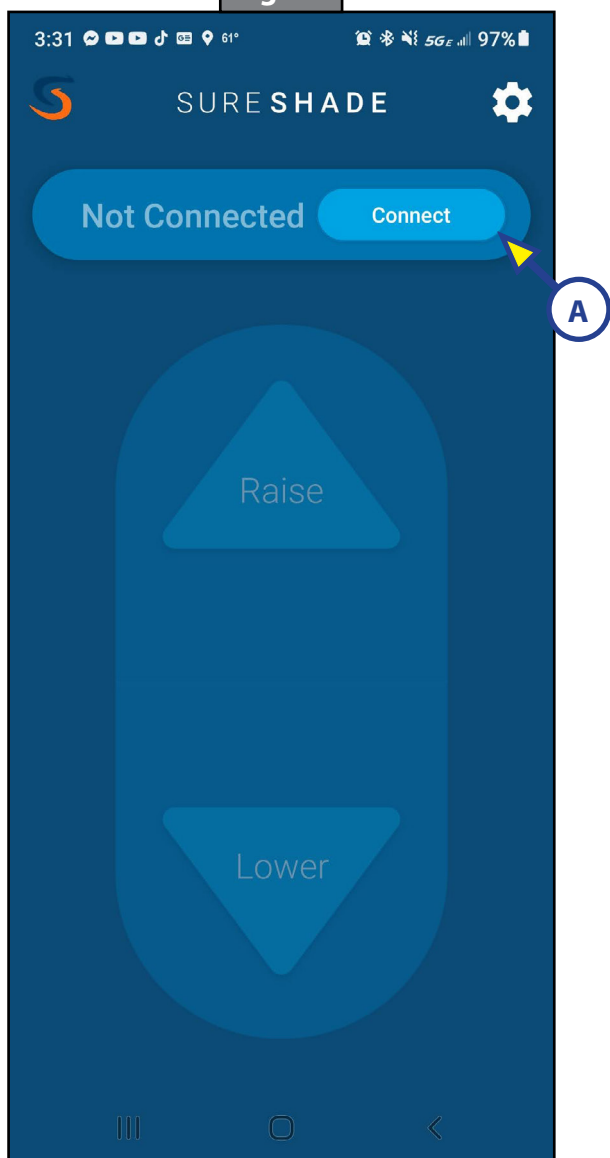
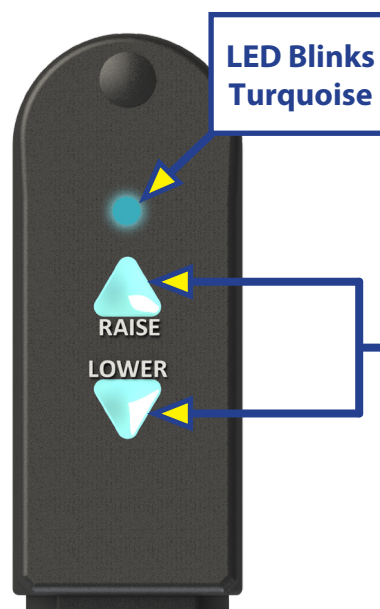
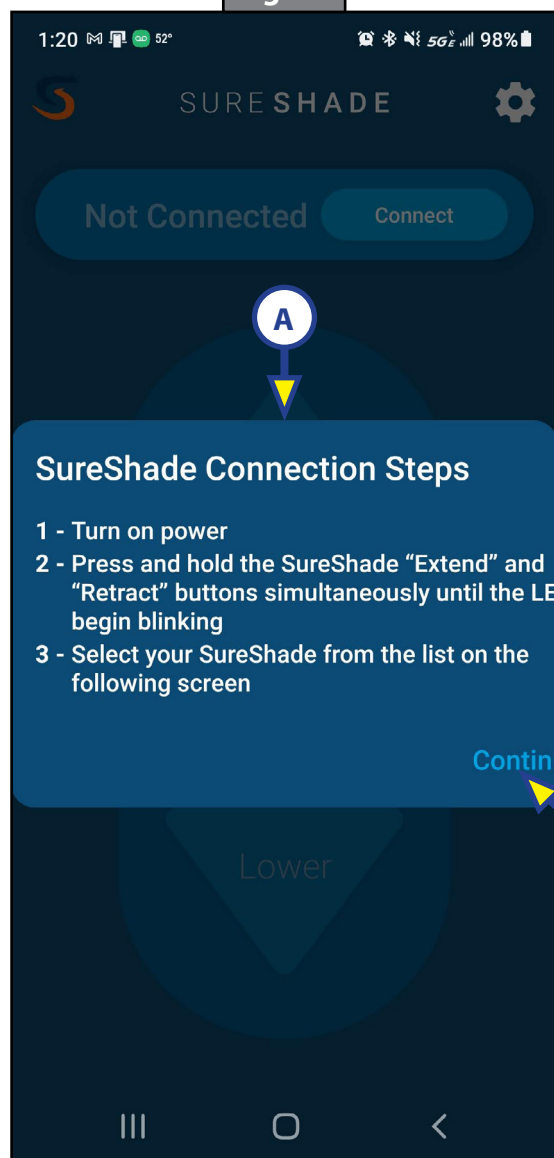


Fig. 35



- H. Select the desired bimini from the Available Biminis list (Fig. 36).
- I. The touch controller will begin pairing itself with the smart device.
- J. The controller and the paired smart device are now connected and the **Raise** and **Lower** buttons are now active (Fig. 37).

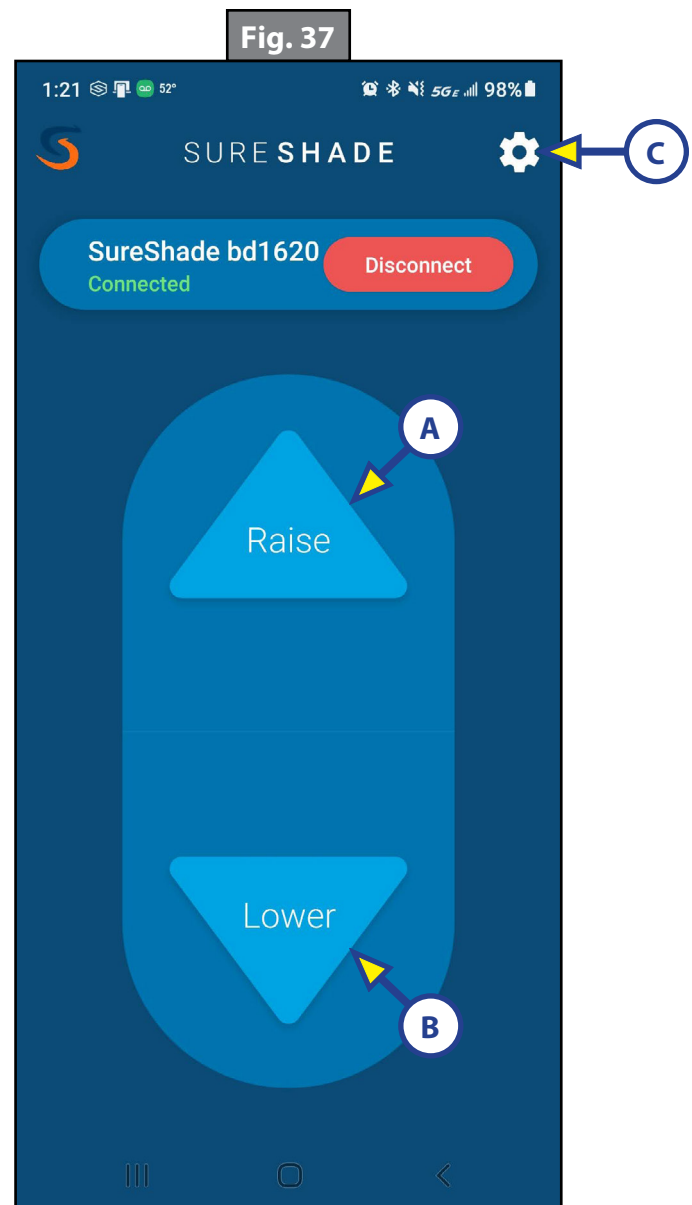
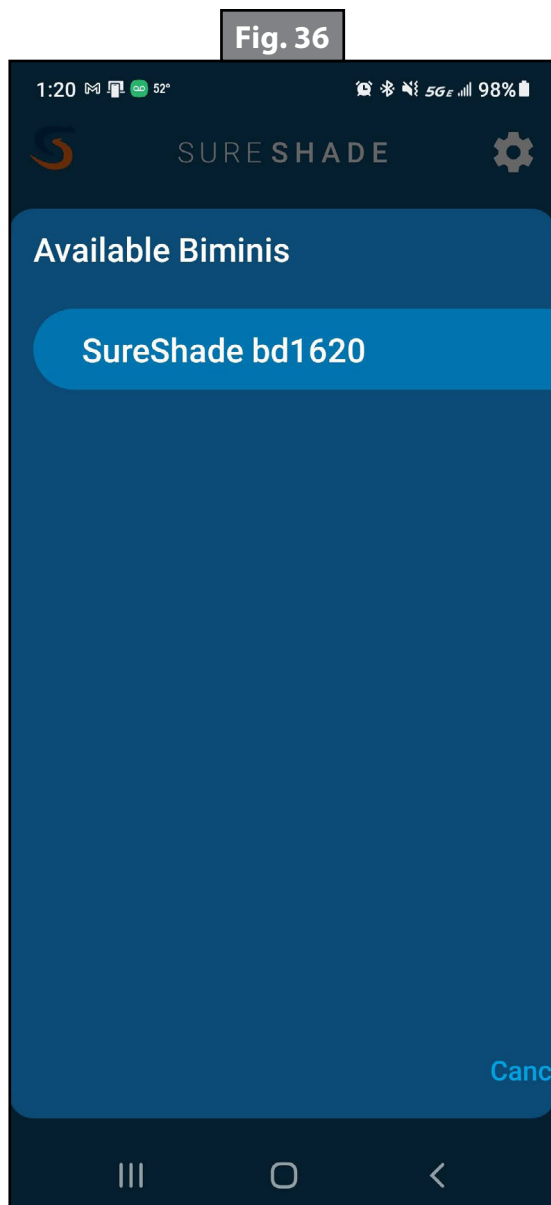
⚠ WARNING

Do NOT open the bimini top in strong winds. Opening the top in strong winds could result in severe product damage. Only open the bimini top under normal wind conditions.

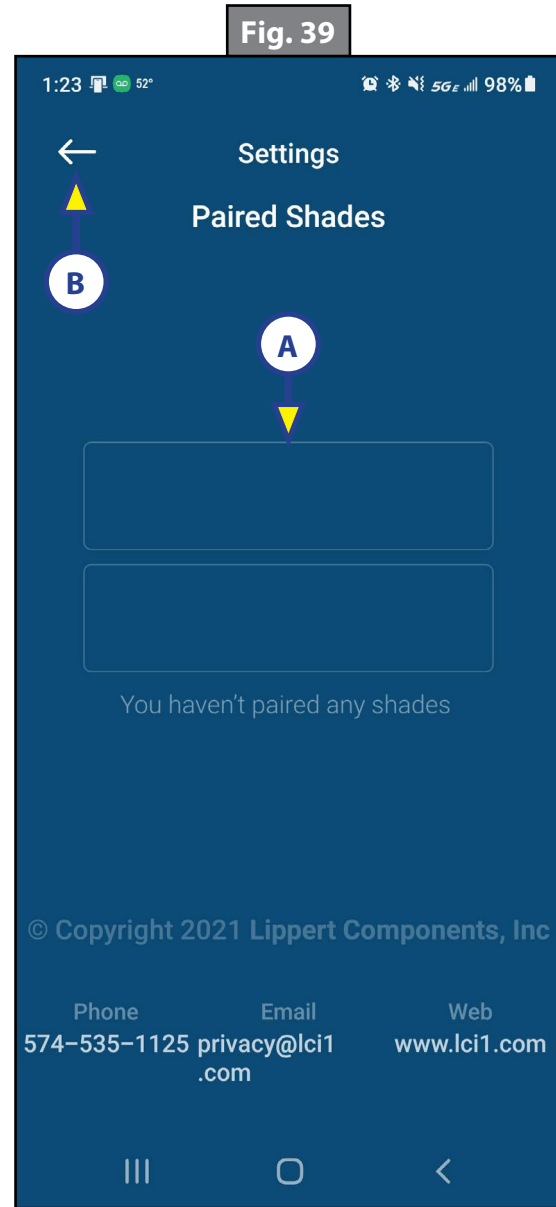
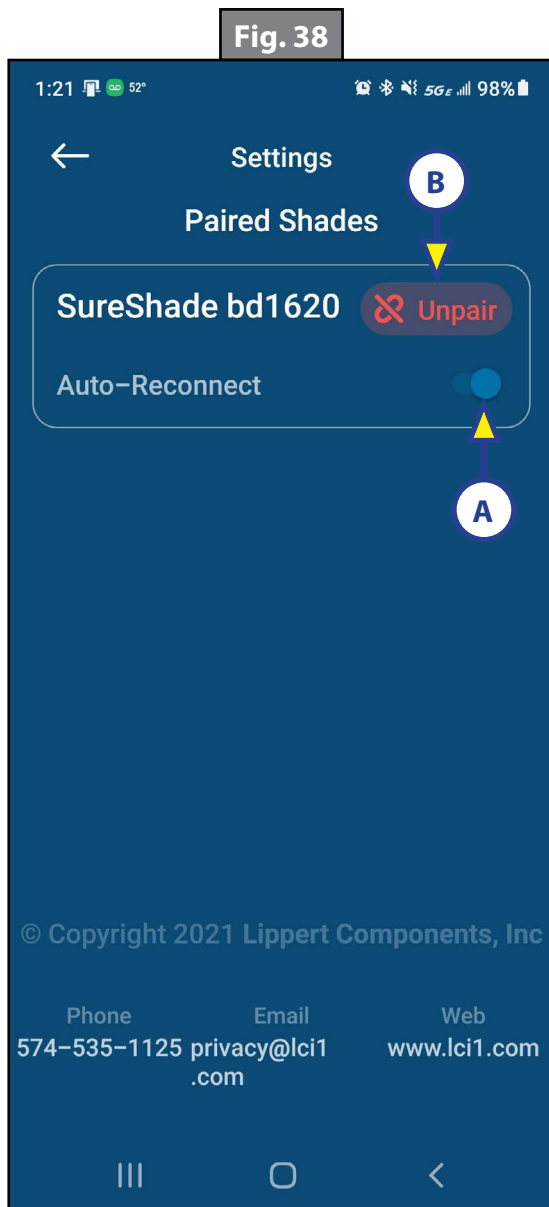
- K. Tap and hold the **Raise** button (Fig. 37A) to extend the bimini top.

NOTE: Do **NOT** fully open the power bimini without the canvas top installed or failure of the system will result.

- L. Tap and hold the **Lower** button (Fig. 37B) to retract the bimini top.
 - M. Alternately operate the app's **Raise** and **Lower** buttons to place the bimini top in various positions to ensure a good Bluetooth connection.
2. To disconnect and unpair the iOS smart device from the connected controller, do as follows:
- A. With the app open to the **Raise** and **Lower** button screen (Fig. 37), tap the gear icon (Fig. 37C) to access the Settings screen (Fig. 38).



- B. Tap the slider button (Fig. 38A) to turn Auto-Reconnect on so the smart device will always automatically reconnect with the controller.
- C. Tap the slider button again to turn Auto-Reconnect off.
- D. Tap the Unpair button (Fig. 38B) for the paired/connected shade.
- E. The Paired Shades screen (Fig. 39A) will reflect the removed shade.
- F. Tap the Back arrow (Fig. 39B) to return to the Connect screen (Fig. 34).



High Speed Mesh Top—if so equipped

Operation of the high speed mesh top is the same as for a standard canvas top. The high speed mesh top is rated for speeds up to 50 mph **WITHOUT** the use front straps. However, if exceeding 50 mph front straps **MUST** be used. Depending on the type of control installed, refer to one of the following sections:

- Helm-mounted Switch
- Key-Fob (Remote Control)
- Touch Controller or App

⚠ CAUTION

Do NOT exceed 15 mph when front shade extension is deployed. Exceeding maximum speed limit with front shade extension deployed can cause damage to the extension and void product warranty.

The front shade extension provides protection from the elements over the front of the boat and can be customized to provide the same protection at the rear of the boat.

NOTE: The maximum 15 mph speed limit **MUST** still be observed when the front shade extension is deployed in the reversed position. Even when deployed in the reverse position, exceeding the maximum speed limit can cause damage to the extension.

NOTE: Front support straps are **NOT** used when the front shade extension is in use. Disconnect front support straps and stow them in the bimini top's front zippered storage pocket before deploying the front shade extension. If so desired, reconnect the front support straps after the front shade extension has been disconnected and stowed.

The front shade extension connects to Lippert canopies with the front, zippered storage pocket.

Forward (front)

1. If necessary, open the bimini top to its fully opened position.

NOTE: Do **NOT** fully open the QC bimini system without the canvas top installed or failure of the system will result.

2. Extend the front shade extension forward, towards the front of the boat as follows:
 - A. Unzip the top's front storage pocket.
 - B. If necessary, connect the zipper end of the front shade extension fabric to the open zipper of the storage pocket, then zip it closed to secure the front shade extension fabric to the top.
 - C. Unfurl and stretch the front shade extension fabric towards the front of the boat.
 - D. Release the stanchions.
 - E. Snap the two sections of the tube together (Fig. 40).
 - F. Insert each stanchion into its respective locking plate (Fig. 41).

Fig. 40

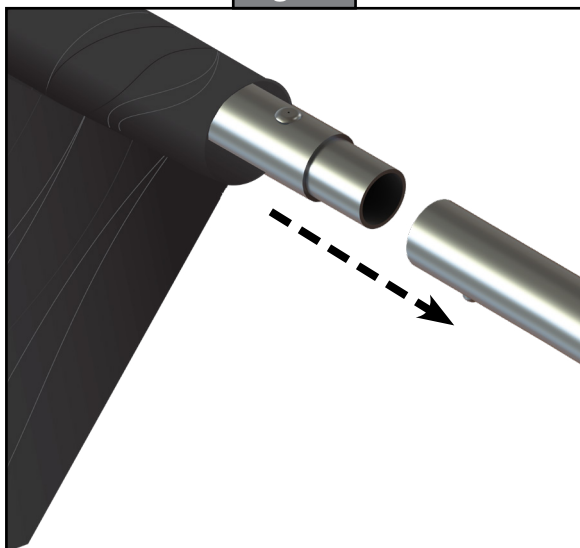
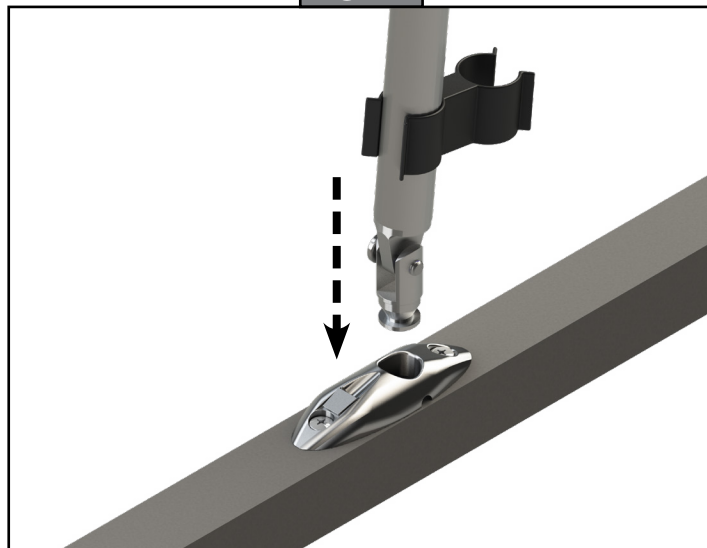
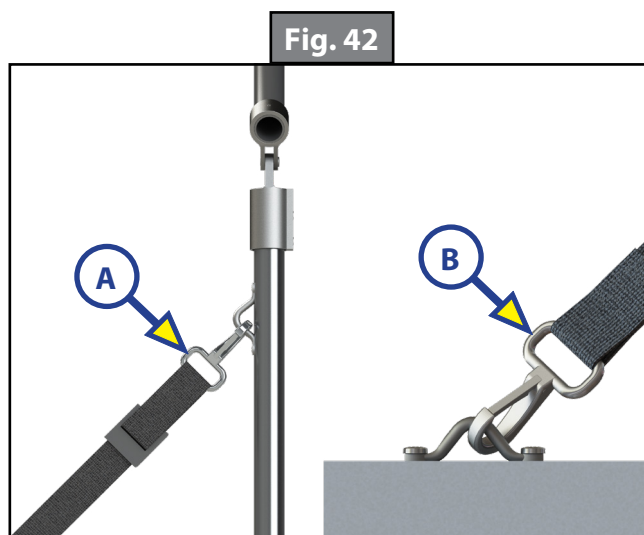


Fig. 41



- G. Attach and extend the tie-down strap from the stanchion's saddle (Fig. 42A) to its respective fence rail saddle (Fig. 42B).
- H. Pull tie-down straps taut to ensure proper forward installation of the front shade extension.

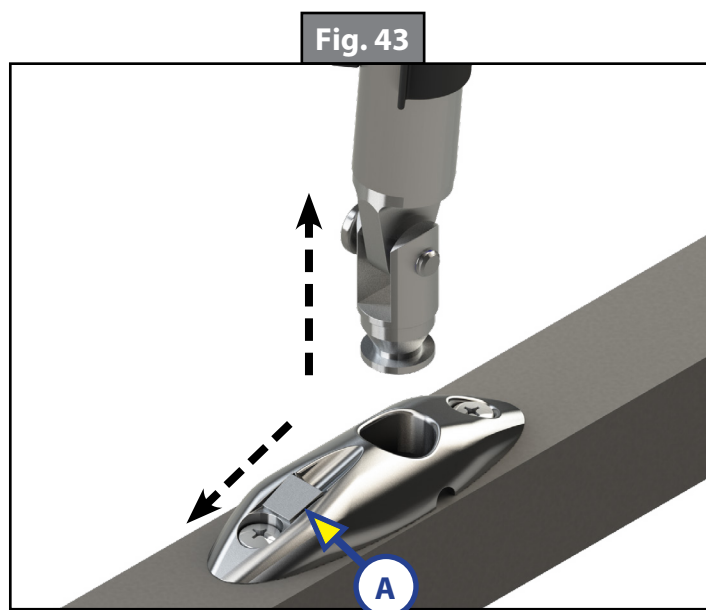


Reverse (rear)

The installation of the reverse (rear) front shade extension position, when used in combination with the high speed mesh top, is meant as a rain deterrent. Installation of the reverse front shade extension is performed in the same manner as outlined for the forward (front), except the fabric is placed underneath the bimini top and secured to the rear rails with locking plates for the stanchions and saddles for the tie-down straps.

With the bimini top fully opened and the front shade extension mounted forward, reverse the bimini top as follows:

1. Loosen the tie-down straps and unclip them from their saddles.
2. Slide the locking button (Fig.43A) on each locking plate back to release the stanchions from their locking plates.
3. Walk the stanchions to the rear of the boat, passing the front shade extension underneath the extended canopy.
4. Insert each stanchion in its respective locking plate.
5. Clip each tie-down strap onto its respective saddle, then draw the tie-down straps taut to ensure proper reverse installation of the front shade extension.



Courtesy Light—if so equipped

The power bimini courtesy light (Fig. 44), located in the center of the overhead mid-frame connecting bow, turns on when the boat's electrical system is turned on and turns off when the boat's electrical power is turned off.

NOTE: There are no directional or brightness level adjustments for the courtesy light.

Fig. 44



Speakers—if so equipped

NOTE: The power bimini's speakers, located on the port and starboard mid-frame struts, are not affected by use of the protective boot, front shade extension or position of the bimini top.

To use the power bimini's speakers (Fig. 45):

1. Turn on electrical power to the boat.
2. Turn on and operate the boat's entertainment system.
3. Use the entertainment system's controls to adjust speaker balance, tone and volume.

Fig. 45



Adjustable Front Support Straps—if so equipped

NOTE: Front support straps are **NOT** used when the front shade extension is in use.

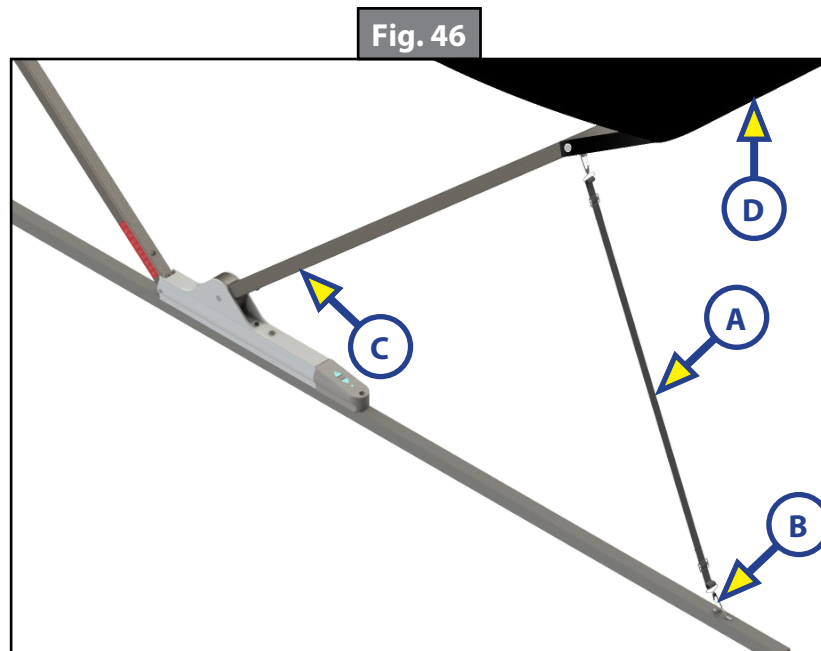
If so equipped, the two adjustable front support straps (Fig. 46A) provide additional tension to the bimini top to help prevent vibration of the frame in high speed boating conditions.

1. Each strap is connected from the top saddle of the front frame to the saddle mounted forward on pontoon's fence rail (Fig. 46).
2. Use the strap's buckle to tighten or loosen tension applied to the bimini top.
3. When not in use, or when the front shade extension is deployed, disconnect the front support straps from their forward rail saddles (Fig. 46B) and attach the spring clip to the saddle mounted near the bottom of the front bimini frame (Fig. 46C).

NOTE: Optionally, the straps can be completely disconnected from their saddles and then stored in the top's front zippered storage pocket (Fig. 46D).

4. Whenever the front shade extension is disconnected and stowed, the front support straps can then be reinstalled, if so desired.

NOTE: The bimini is rated for 45mph with the front straps in-place.
The bimini is rated for 25mph without the front straps in-place.



Front Support Arms—if so equipped

⚠ WARNING

If excessive shaking of the bimini top is experienced, whether the front sport arms are in use or not, stop the boat immediately. Lower the bimini top and secure with boot.

NOTE: Front support straps are **NOT** used when the support arms are in use.

⚠ WARNING

Maximum speed rating of front sport arms is 45 MPH.

NOTE: Maximum speed rating of front sport arms is 45 MPH.

Front support arms add to the bimini frame's structural strength and to the overall awning assembly during boating at moderate speeds, in gusty winds and inclement weather. Lippert front support arms are easy to deploy and store away neatly and securely when not in use.

1. To extend the front support arms:
 - I. Fully open the power bimini top (Fig. 47) until the auto-reset breaker trips.
 - J. Pull the front support arm (Fig. 47A) out of its EZ Clip (Fig. 47B).
 - K. Position the swivel barrel over the hinge assembly.
 - L. Slide and hold the locking button down (Fig. 48A), then insert the swivel barrel (Fig. 48B).
 - M. Release the locking button.

Fig. 47

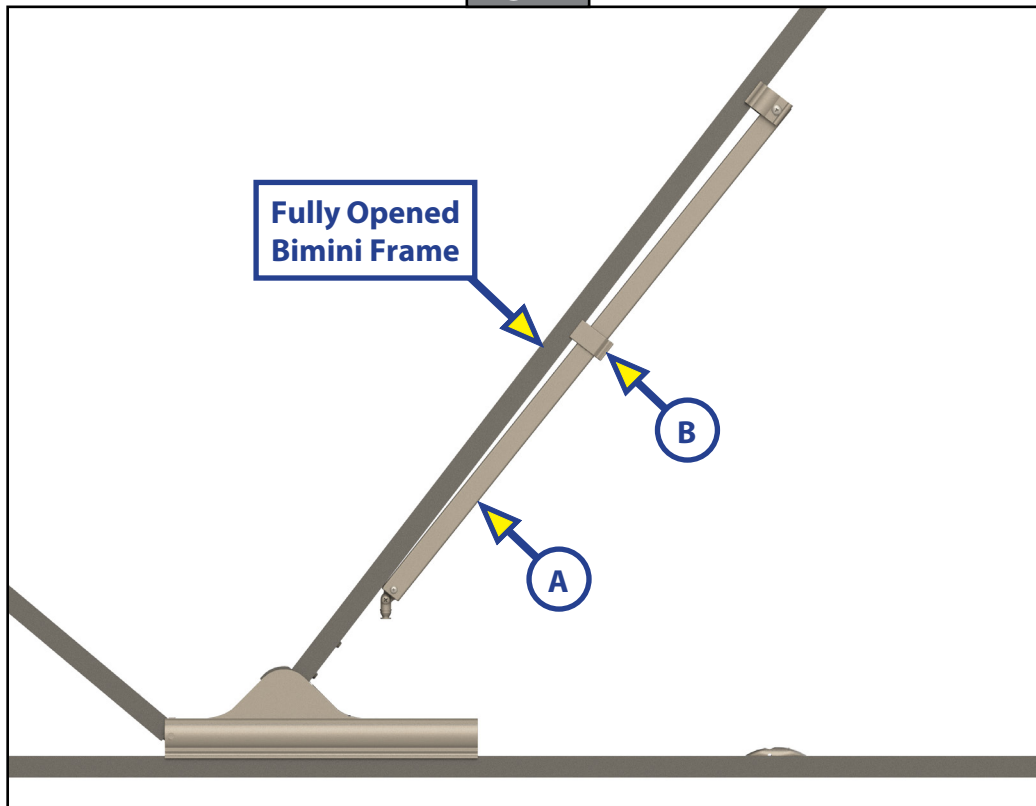
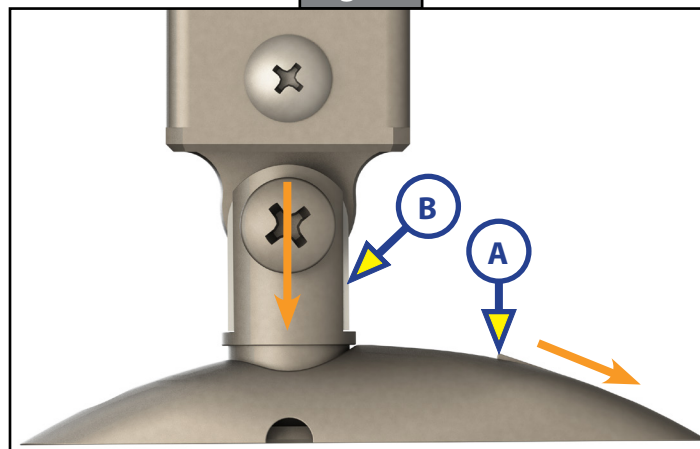
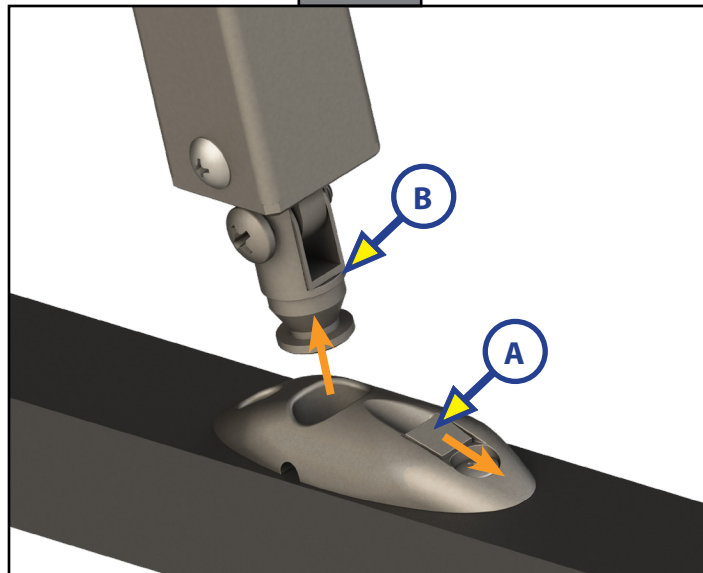


Fig. 48



2. To retract the front support arms:
 - A. Slide and hold the hinge assembly's locking button (Fig. 49A) down, then pull the swivel barrel out of the locking plate Fig. 49B).
 - B. Release the locking button.
 - C. Push the front support arm into its EZ Clip (Fig. 47).

Fig. 49



Troubleshooting

What Is Happening?	Why?	What Should Be Done?
Helm switch does not respond.	Bad electrical connection.	Check for loose or unconnected wires. Connect wires.
	Bad helm switch.	Contact switch provider.
Bimini top will not open.	Low power.	Make sure battery is fully charged.
	No power.	Check actuator and helm switch electrical connections. Reconnect loose or disconnected connections. Refer to figure 8 and Wiring Diagram.
		Inspect electrical connections for nicks and cuts. Repair or replace as necessary. Refer to figure 8 and Wiring Diagram.
Bimini top will not close.	Low power.	Make sure battery is fully charged.
	No power.	Check actuator and helm switch electrical connections. Reconnect loose or disconnected connections. Refer to figure 8 and Wiring Diagram.
		Inspect electrical connections for nicks and cuts. Repair or replace as necessary. Refer to figure 8 and Wiring Diagram.
	Damaged actuator.	Perform manual override.
	Foreign material blocking gear handle.	Remove foreign material from gear handle. Inspect gear handle and actuator for damage. Perform manual override if necessary.
Bimini top does not fully open or close.	Low power.	Make sure battery is fully charged.
	No power.	Check actuator and helm switch electrical connections. Reconnect loose or disconnected connections. Refer to figure 8 and Wiring Diagram.
		Inspect electrical connections for nicks and cuts. Repair or replace as necessary. Refer to figure 8 and Wiring Diagram.
	Damaged actuator.	Perform manual override. Contact Lippert.
	Foreign material blocking gear handle.	Remove foreign material from gear handle. Inspect gear handle and actuator for damage. Perform manual override if necessary.
Bimini top does not respond to key-fob.	Weak signal.	Move key-fob closer to RF Receiver.
	No power.	Check power connections to RF Receiver. Reconnect power if necessary. Refer to figure 8 and Wiring Diagram.
		Use helm switch. If top responds to helm switch, replace key-fob battery.
Key-fob transmit LED does not light up.	Weak signal.	Move key-fob closer to RF Receiver.
	No power.	Check power connections to RF Receiver. Reconnect power if necessary. Refer to figure 8 and Wiring Diagram.
		Replace key-fob battery.

What Is Happening?	Why?	What Should Be Done?
Top does not raise or lower.	No power.	Turn on boat's electrical power.
	Bad electrical harness.	Contact Lippert.
	Bad actuator.	
	Bad electrical connection.	Check for loose or unconnected wires. Connect wires.
	Pinched/cut harness wire.	Replace wires/wire harness.
	Bad controller.	Contact Lippert.
Touch-sensitive controller power indicator light not lit.	No electrical power.	Turn on boat's electrical power.
	Bad light.	Replace controller.
Touch-sensitive controller buttons do not respond.	No electrical power.	Turn on boat's electrical power.
	Bad electrical connection.	Check for loose or unconnected wires. Connect wires.
	Pinched/cut harness wire.	Replace wires/wire harness.
	Bad controller.	Contact Lippert.
Mesh top sags.	Unzipped frame pocket.	Zip all frame pockets closed.
	Unconnected snap(s).	Connect all snaps.
	Mesh top not fully opened.	Fully open mesh top.
Front shade extension stanchions do not reach the locking plates.	Front shade extension not fully extended.	Fully extend front shade extension.
	Bimini top not fully extended.	Fully extend bimini top.
	Locking plates mounted too far away.	Relocate locking plates.
Stanchions do not lock in-place.	Bad locking button.	Contact Lippert.
Tie-down strap does not reach the saddle.	Saddle mounted too far away.	Relocate saddle.
	Tie-down strap not extended enough.	Adjust tie-down strap buckle to increase strap length.
Tie-down strap clip does not close on saddle or stanchion.	Bad spring clip.	Replace tie-down strap.
Bimini top does not respond to key-fob.	Weak signal.	Move key-fob closer to RF Receiver.
	No power.	Check power connections to RF Receiver. Reconnect power if necessary. Refer to figure 8 and Wiring Diagram.
		Use helm switch. If top responds to helm switch, replace key-fob battery.

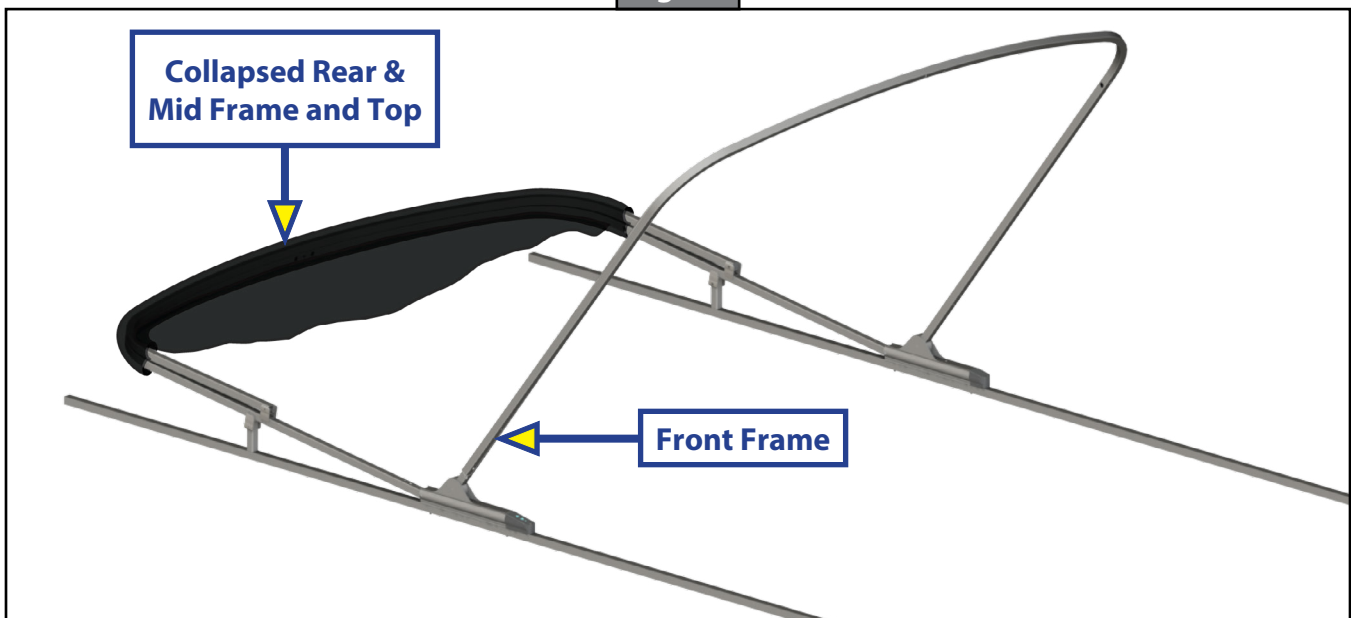
What Is Happening?	Why?	What Should Be Done?
Swivel barrel not secured.	Debris lodged inside the locking plate.	Remove debris from locking plate.
	Damaged or worn slide button spring.	Replace hinge assembly.
Swivel barrel won't release from locking plate.	Debris lodged inside the locking plate.	Remove debris from locking plate.
	Damaged or worn slide button spring.	Replace hinge assembly.
Front support arm does not stay secured.	Damaged or worn EZ Clip.	Replace EZ Clip.
Front support arm does not reach the hinge assembly.	Bimini top not fully open.	Fully open the power bimini top until the auto-reset breaker trips.
	H-bracket and/or hinge assembly not properly installed.	Contact Lippert Customer Care Center.

Manual Override

If the power bimini top will not retract into the radar or fully retracted position, a manual override of the power bimini top must be done before putting the pontoon underway. Perform a manual override of the power bimini top as follows:

1. If the front shade extension is deployed, disconnect the front shade extension stanchions and tie-down straps. Store the complete front shade extension in the top's front zippered storage pocket.
2. If the adjustable front support straps are deployed, disconnect them from the forward fence rail saddles and then either attach the loose spring clips to the front frames' bottom saddle or completely disconnect the straps from the front frame and store them in the top's front, zippered storage pocket.
3. Unzip the front pocket of the bimini canvas.
 - A. If available, have a second person push forward on the rear frame to relieve some pressure off of the canvas.
 - B. Then have the person hold up the rear and middle frames while the canvas is unzipped.
4. Collapse the rear and middle frame and fabric top in the down position (Fig. 50).

Fig. 50



5. Retrieve the provided 5/32" hex wrench for removing the four 1/4" hex cap screws from the front frame—two screws each side.
 - A. If the quick connect (QC) touch-sensitive controller is **NOT** installed, there will be a hex wrench (Fig. 51A) located behind each actuator's end cap (Fig. 51B).
 - B. If the QC touch-sensitive controller **IS** installed, a hex wrench (Fig. 52A) will be located inside the front zippered storage pocket (Fig. 52B) of the top.
6. Using the hex wrench, remove the four cap screws from the front frame (Fig. 53A).

Fig. 51

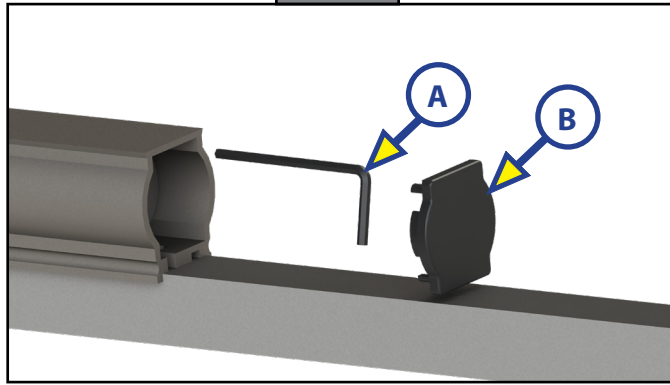


Fig. 52

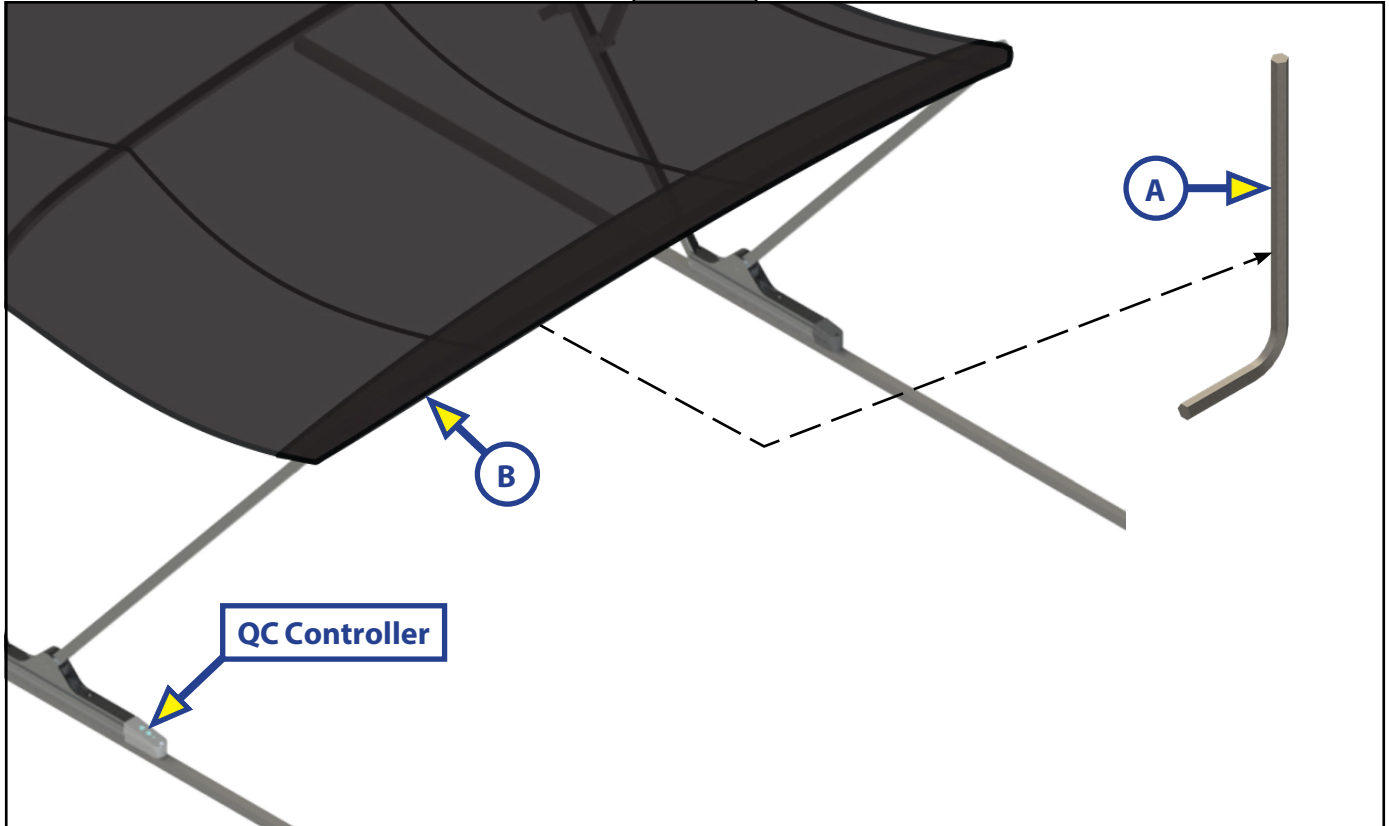
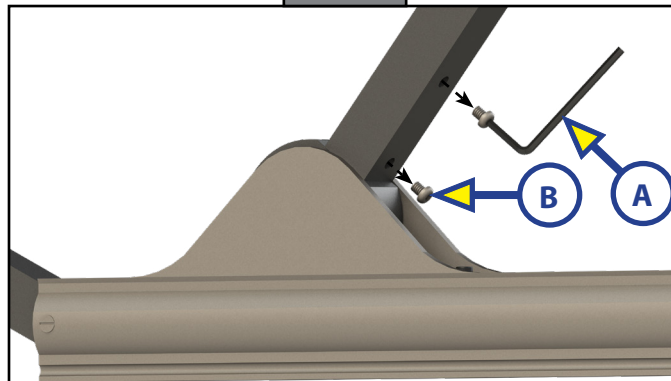


Fig. 53



7. Lift the front frame off of the gear handles (Fig. 54).
8. Place the front frame on top of the collapsed rear frame and fabric.
9. Zip the bimini top's front pocket over the loose front frame to help hold the frame in-place.
10. Install the protective boot over the collapsed rear frame, fabric and front frame (Fig. 55) to secure the bimini system in-place.
11. Secure the remainder of the frame struts with zip ties, hook-and-loop strips or with some other type of cordage.

Fig. 54

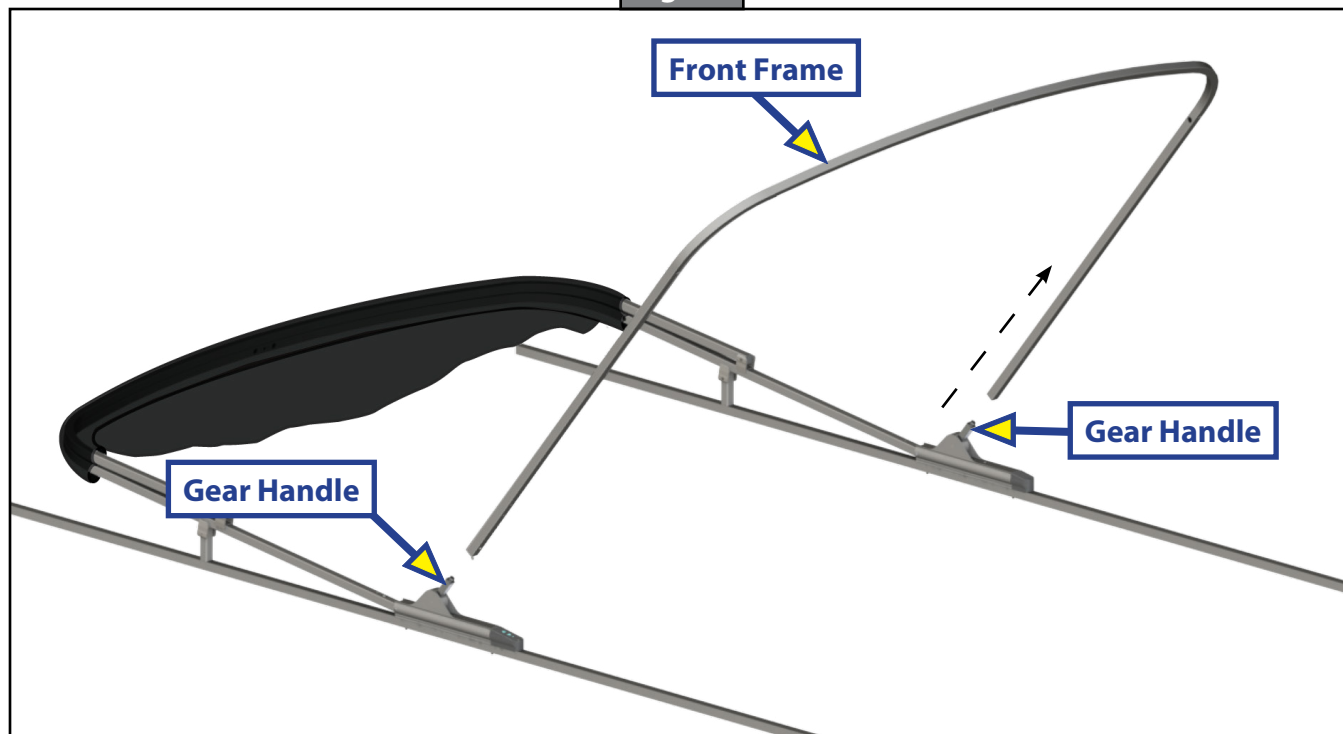
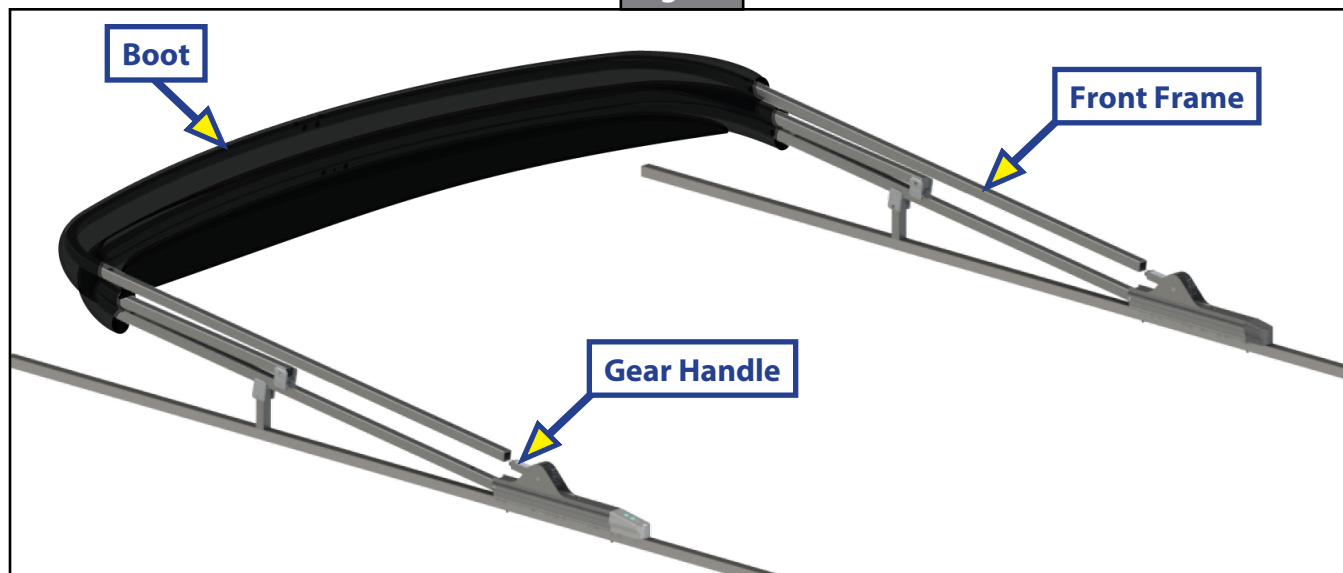


Fig. 55



Maintenance

Fabric Care

Heat and sun will deteriorate any fabric top.

Leaving the top open all of the time can shorten the lifespan of the fabric. Folding the top back and covering it with the protective boot when the pontoon is not in use, the boot fabric may deteriorate over time, but the top's fabric will remain protected. Folding the top back and using the boot when not in use will dramatically increase the life of the top's fabric.

Bimini tops are not pontoon covers and should not be left up when the pontoon is unused.

To clean the top:

1. Use clean water to consistently hose off the bimini top fabric during boating season.
2. If necessary, do a deeper clean of the bimini top fabric:
 - A. If necessary, remove the boot and fully open the bimini top.
 - B. If the top was stored wet, allow the bimini top and boot to dry.
 - C. Remove any loose dirt and debris from the bimini top and boot.
 - D. Brush the underside of the top to remove loose dirt and to prevent any mildew build up.
 - E. Hose down the bimini top and boot fabric with fresh, clean water.
 - F. Prepare a mixture of 1/4 cup of mild dish soap and five gallons of warm water.

NOTE: Do **NOT** use harsh detergents.

- G. Use a soft bristle brush or sponge to apply the soapy water to the bimini top and boot fabric to remove stains and embedded dirt.
 - H. Allow the solution time to soak completely into the fabric.
 - I. Hose off the bimini top and boot fabric with fresh, clean water. Repeat as necessary.
3. Allow bimini top and boot to dry before closing the top and installing the protective boot.

Front Support Arms

Use a soft bristle brush to clean dirt and debris from pivot points on the H-bracket and hinge assembly.

Wipe the front support arms clean with a soft, water-dampened cloth.

If necessary, a mild detergent may be used to remove stubborn dirt or stains. Use clean water to rinse detergent off of the support arms.

Trailer (Towing)

WARNING

Do NOT trailer or tow the boat without the protective boot properly installed on the top and without the top in its full down position. Trailering or towing the boat without the top in its full down position and without the protective boot properly installed can cause serious damage to the top's framework, which could cause severe product and/or property damage, including serious personal injury.

Use the proper trailer and towing safety features designed for the size, weight and style of the boat being towed and for the towing vehicle.

Storage or Storm Position

If not going boating for awhile, secure the fabric in the zippered storage boot. Folding the bimini top back into the radar or fully closed position will increase the top's life.

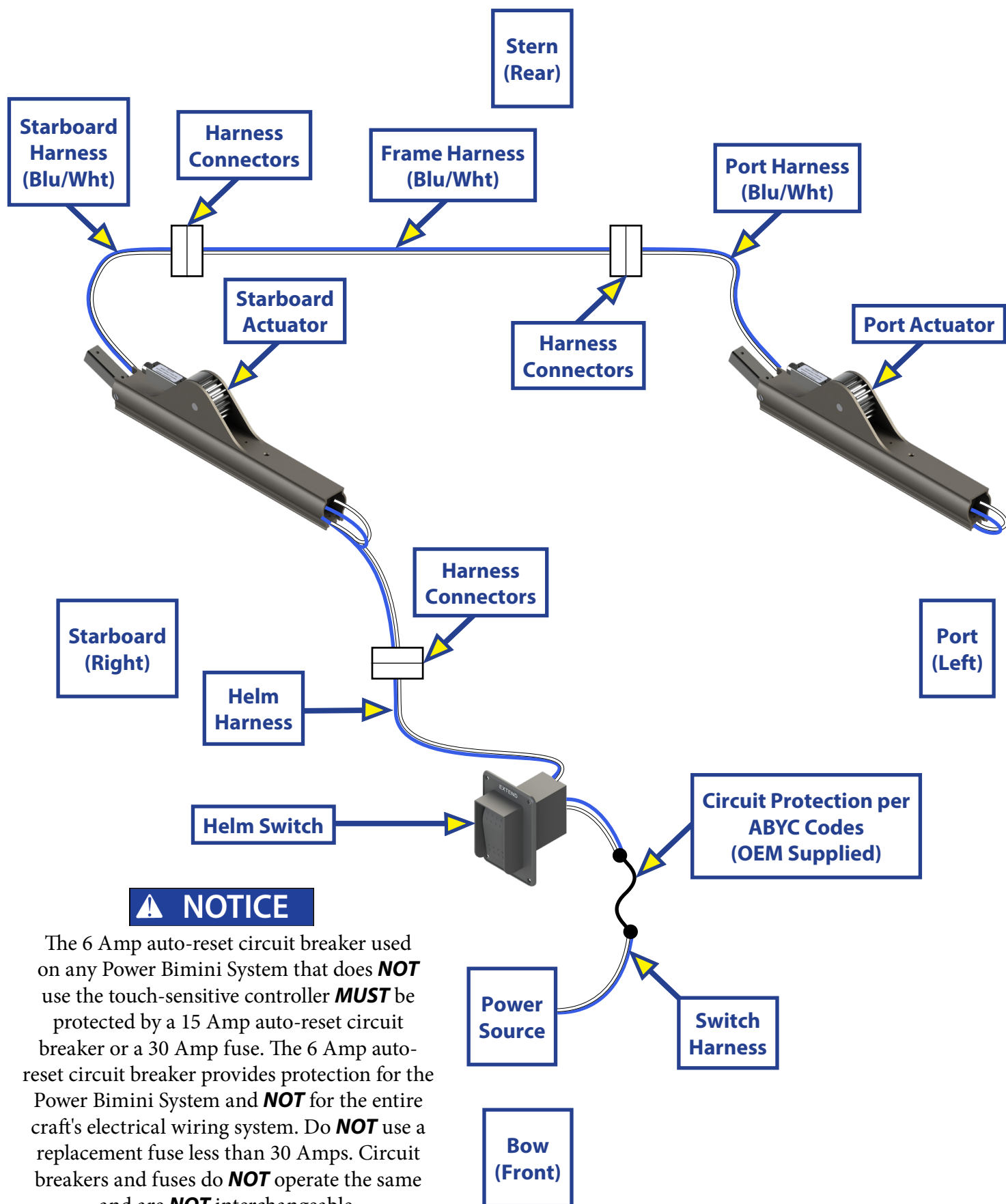
Winter Storage

To prevent small animals from nesting in the top during the winter, unzip and remove the protective boot. Store the boot and pontoon in a clean, dry place to increase the life of the top.

Wiring Diagrams

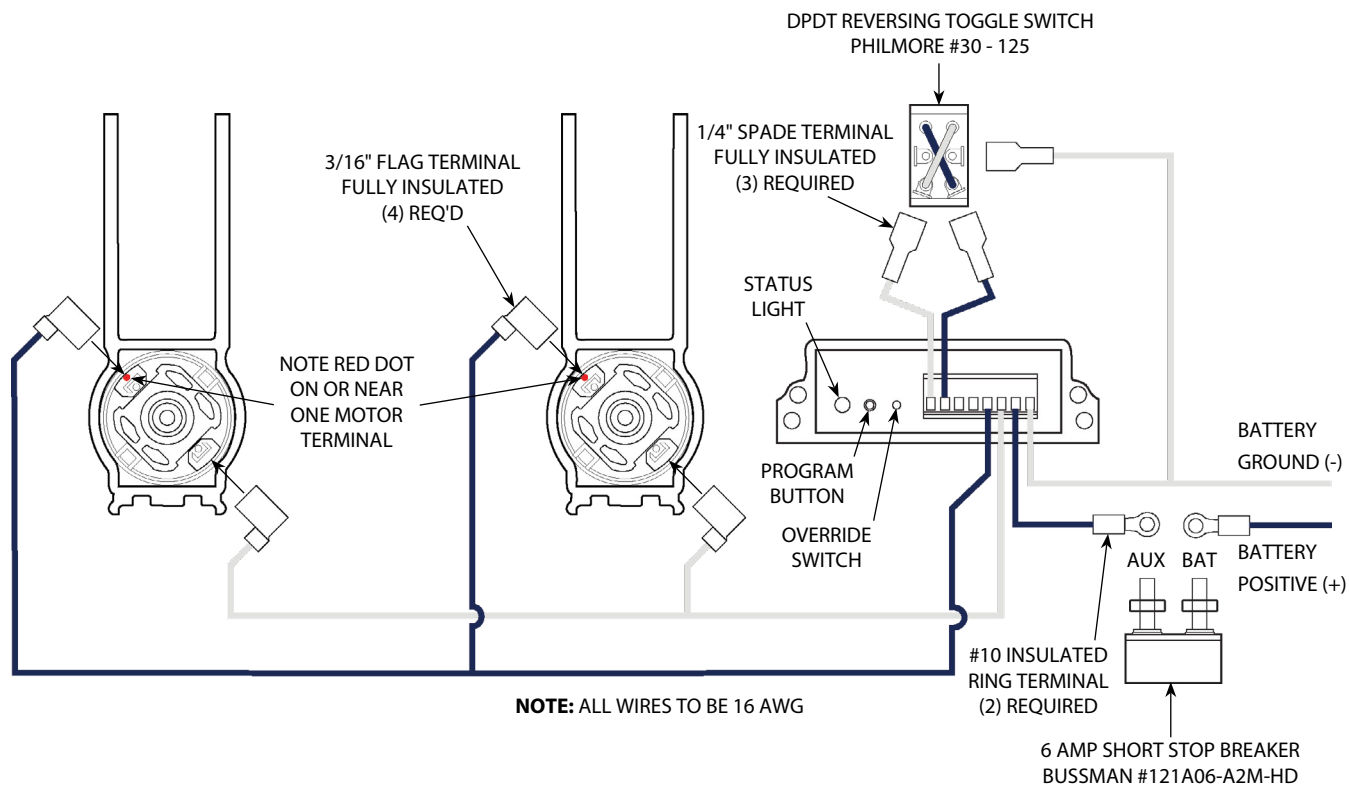
Helm Switch to Actuators

NOTE: Configuration **NOT** Bluetooth compatible.



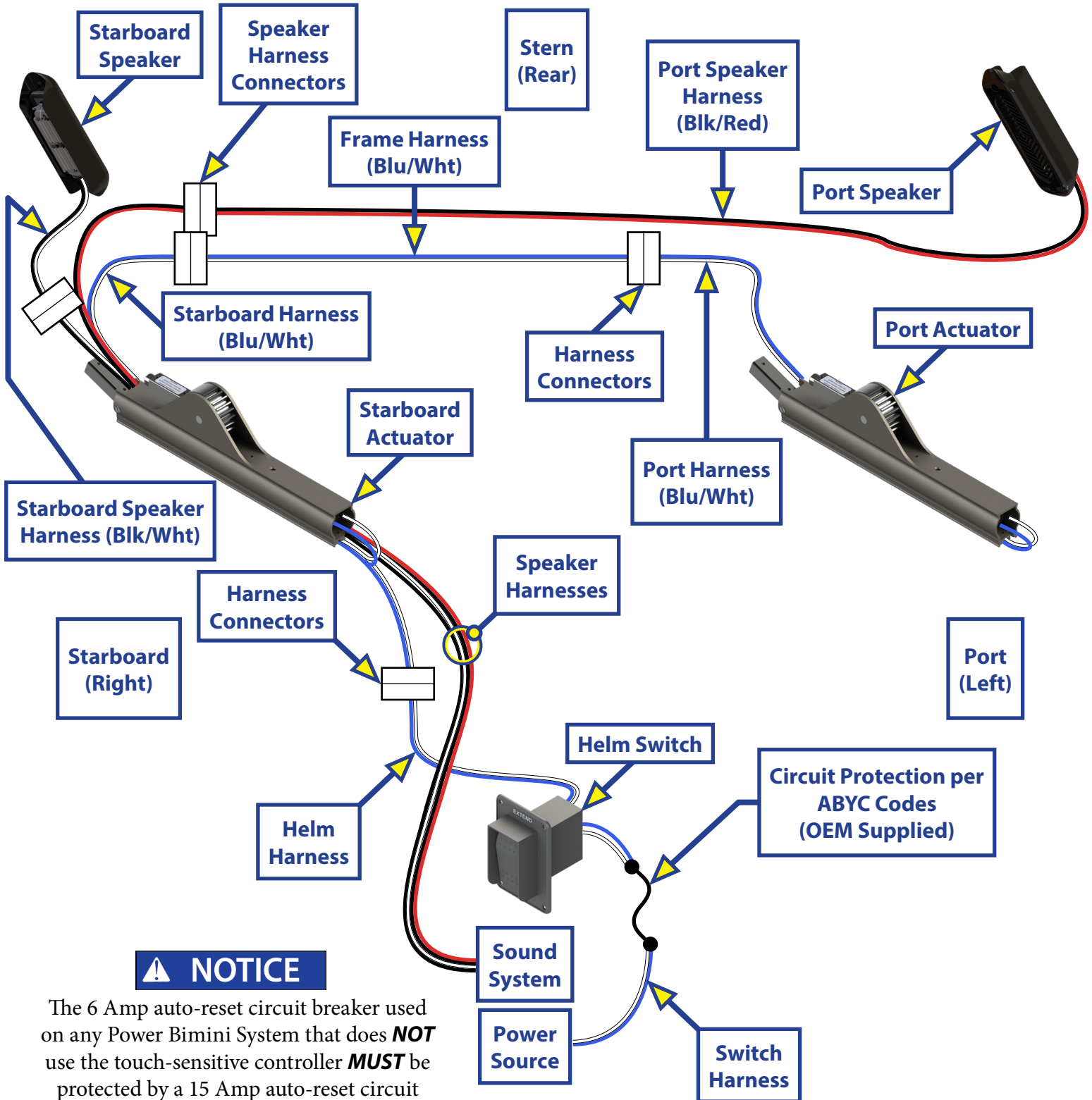
Helm Switch and Key-Fob

NOTE: Configuration **NOT** Bluetooth compatible.



Helm Switch to Actuators and Speakers

NOTE: Configuration **NOT** Bluetooth compatible.



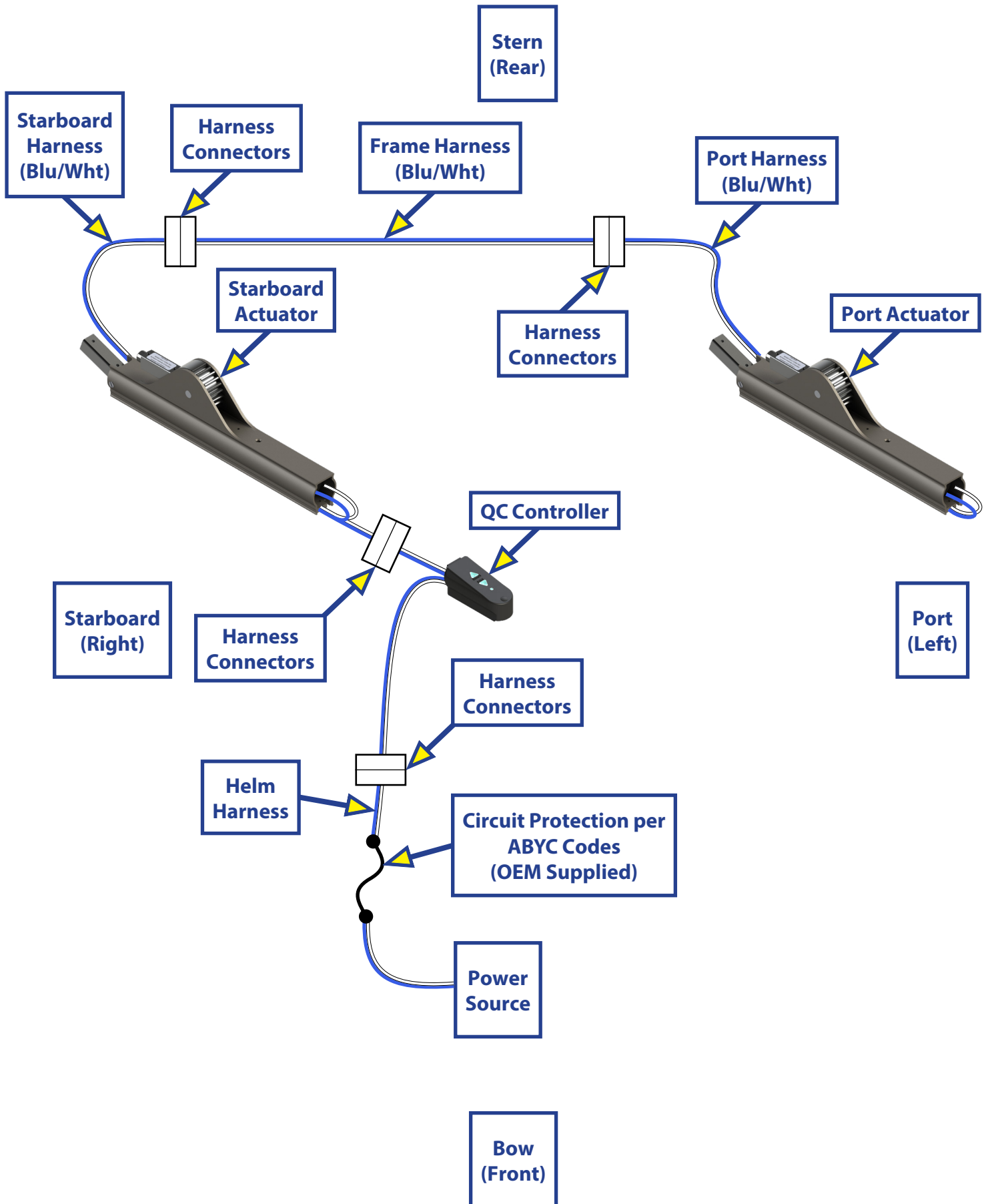
NOTICE

The 6 Amp auto-reset circuit breaker used on any Power Bimini System that does **NOT** use the touch-sensitive controller **MUST** be protected by a 15 Amp auto-reset circuit breaker or a 30 Amp fuse. The 6 Amp auto-reset circuit breaker provides protection for the Power Bimini System and **NOT** for the entire craft's electrical wiring system. Do **NOT** use a replacement fuse less than 30 Amps. Circuit breakers and fuses do **NOT** operate the same and are **NOT** interchangeable.

NOTE: Connect Port Speaker to sound system's Left Speaker output and Starboard Speaker to Right Speaker output.

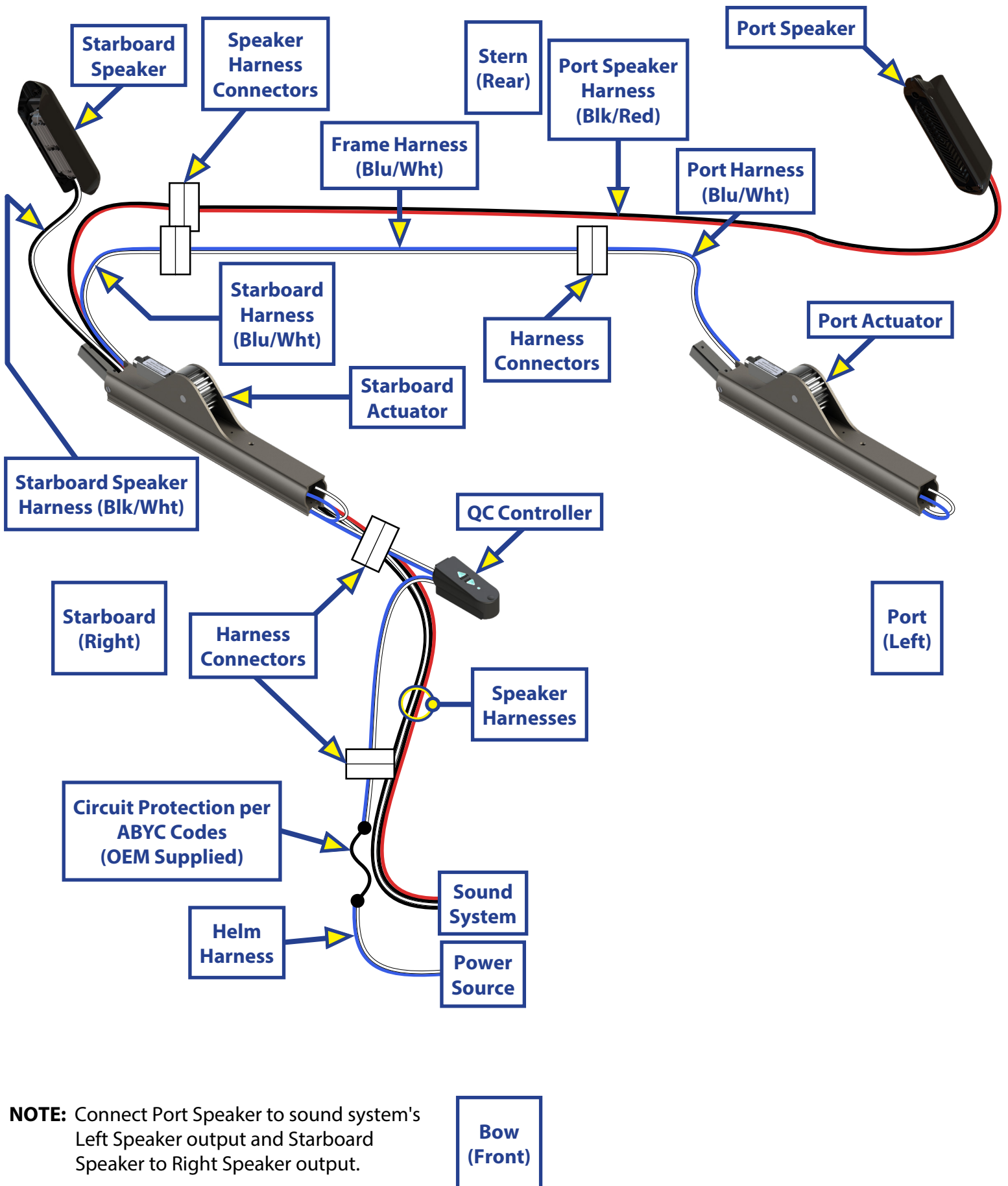
QC Controller to Actuators

NOTE: Configuration Bluetooth compatible.



QC Controller to Actuators and Speakers

NOTE: Configuration Bluetooth compatible.



Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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