



**SURESHADE® POWER
BIMINI UPGRADES
OEM INSTALLATION MANUAL**

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Introduction

The SureShade Power Bimini is an electric actuator-driven Bimini top powered by a 12V DC source, that can be controlled by a two-button touch controller or with a Bluetooth® compatible app.

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

<https://support.lci1.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.

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 LCI 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

Only open the bimini top indoors when testing for proper installation. Opening the bimini top outdoors subjects the system to possible strong winds that could result in severe product damage. Only open the bimini top indoors when testing product for proper operation.

WARNING

Do NOT fully open the bimini frame without the canvas top installed when testing product for proper operation. 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.

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.

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](#)

Resources Required

- 1-2 persons, depending on task
- Pencil
- Cordless or electric drill or screw gun
- 3/8" drill bit
- Appropriate drive bits
- Tape measure
- 9/16" wrench
- Screwdriver

Preparation

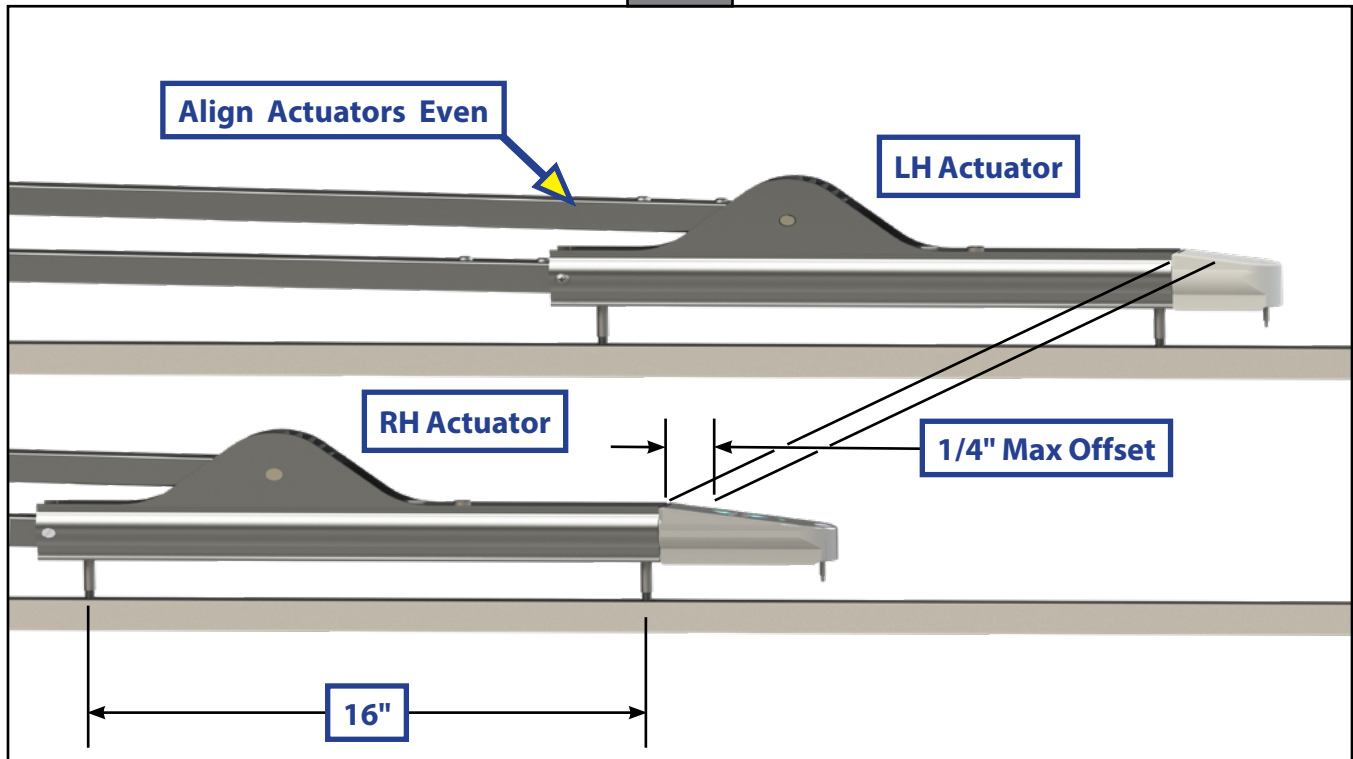
Actuator Mounting Locations

When installing the complete power bimini system onto the boat's railing, make sure:

- The actuators are mounted square, level and plumb to one another (Fig. 1).
- No actuator is mounted more than 1/4" ahead of the other (Fig. 1).
- Wires are run in a manner that will prevent them from being pinched under the actuators.
- Actuator minimum voltage is 11V DC when under load.

While facing the front (bow) of the boat, there is a right-handed (RH)—starboard—and a left-handed (LH)—port—actuator. The RH actuator has a two-wire harness exiting beneath the controller for connecting to the boat's electrical power. Both actuators are pre-wired through the rear frame assembly.

Fig. 1

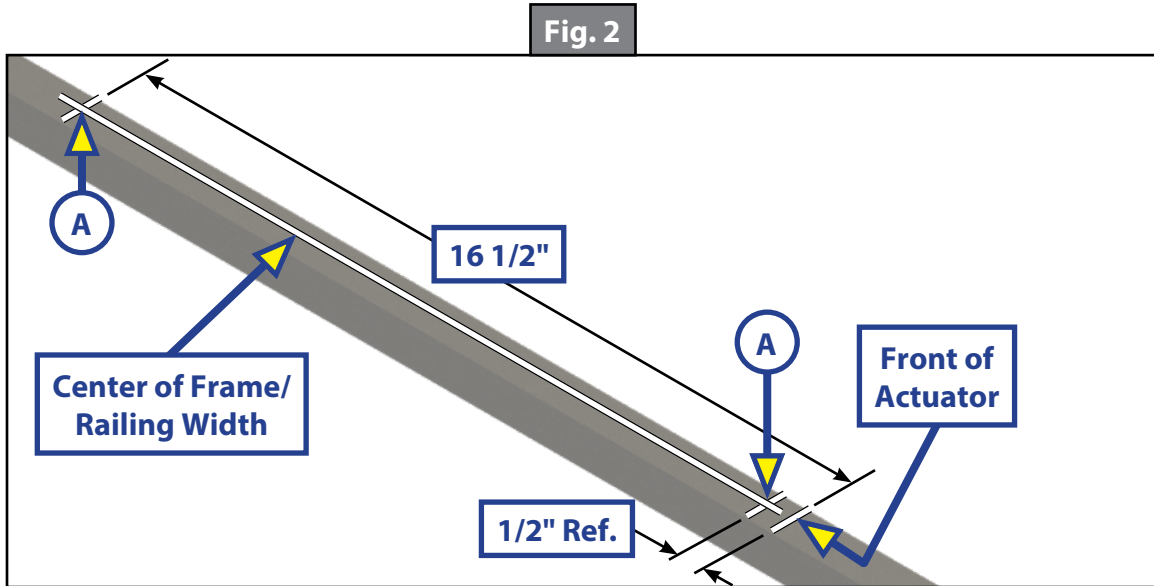


Installation of a Complete Quick-Connect Power Bimini System

1. Place the quick-connect (QC) power bimini system onto the boat's frame/railing.

Note: Proper rear strut assembly positioning is generally determined by locating the assembly so that when the top is down, the struts are just behind the rear seats. Too far forward and the top will interfere with rear seating; while too far rearward will provide less shade to the front of the boat.

2. Move the LH and RH actuator assemblies (Fig. 1) forward and backward until the actuators are in-line with each other.
 - A. Make sure the actuators are mounted square, level and plumb to one another.
 - B. Make sure no actuator is mounted more than 1/4" ahead of the other (Fig. 1).
3. After properly positioning each strut/actuator assembly, use a pencil to mark the center locations of each actuator's mounting studs (Fig. 2A).



4. Remove the QC power bimini system from the boat and set aside.
5. Make sure the center marking for each mounting stud is centered across the width of the frame/railing and measures 16" apart (Fig. 1) on center.
6. Make sure each set of markings are aligned to one another, left-to-right.

CAUTION

Some boat frames/railings may be pre-wired. Drilling through a pre-wired frame/railing may nick or cut electrical wires, resulting in a damaged and/or unusable electrical harness. Carefully drill through one surface and inspect for wiring.

7. At each pencil mark, drill a through-hole using a 3/8" drill bit. These holes need to go all of the way through the railing tube.

Note: Use care when drilling through a pre-wired boat frame/railing. If necessary, drill through one wall of the tube, then inspect for wires to make sure they are out of the way.

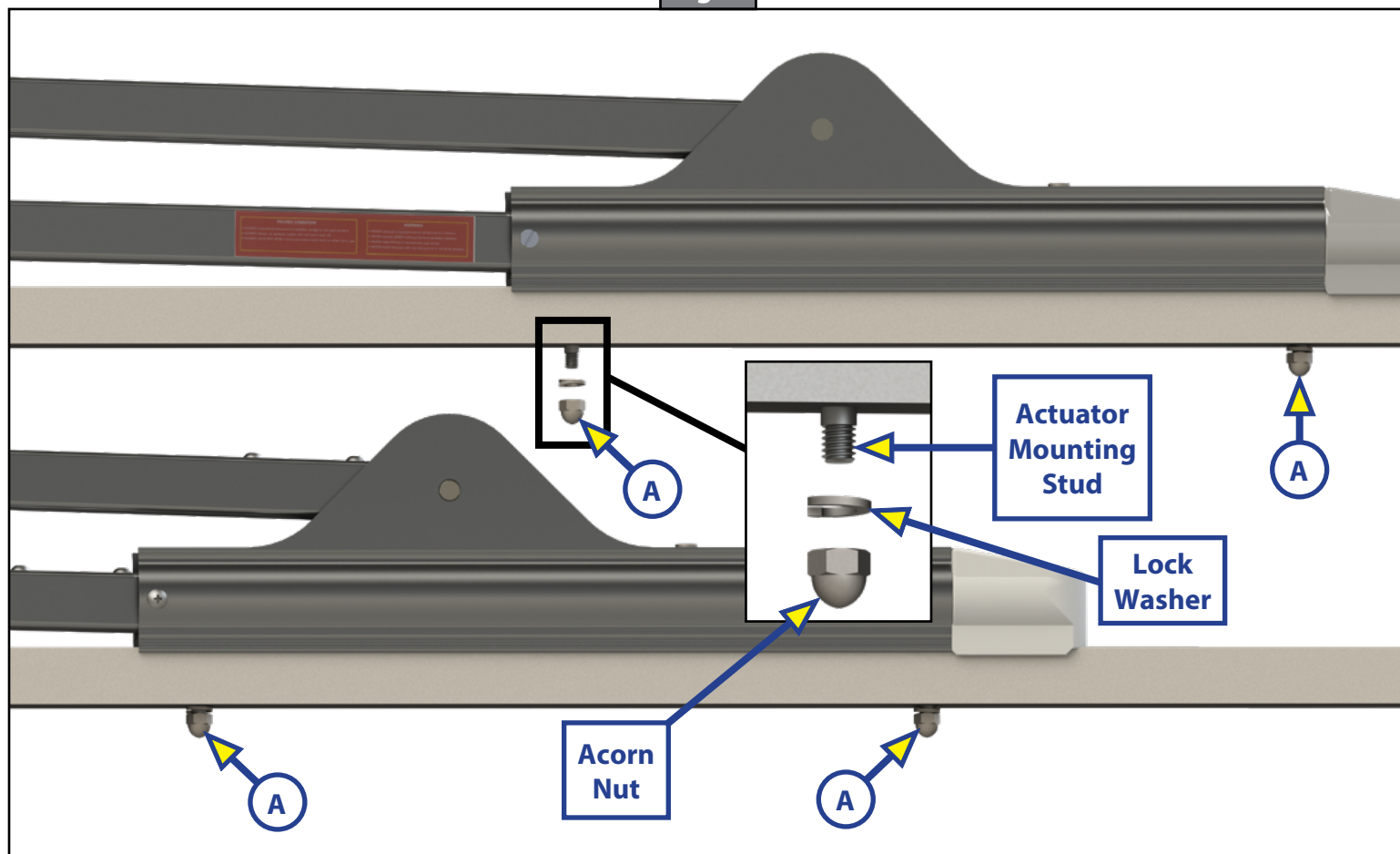
8. Place the previously removed (step 4) QC power bimini system on top of the frame/railing so that the actuators' mounting studs align with the drilled holes in the frame/railing.
9. Connect the actuator's wire harness to the boat's power source:

Note: Use care to make sure wires are not pinched underneath the actuators.

- A. Use wire harness channels on the underside of the actuators to avoid pinching wires.
- B. If necessary, drill an access hole into the RH frame/railing for the wire harness connectors to pass through.

10. Make sure each stand-off leg rests as near the center-width of the boat's frame/railing as possible.
11. Secure complete QC bimini system in place with 5/16" split lock washers and 5/16"-18 acorn nuts (Fig. 3A) four places.
12. Use a 9/16" wrench to tighten the acorn nuts.

Fig. 3



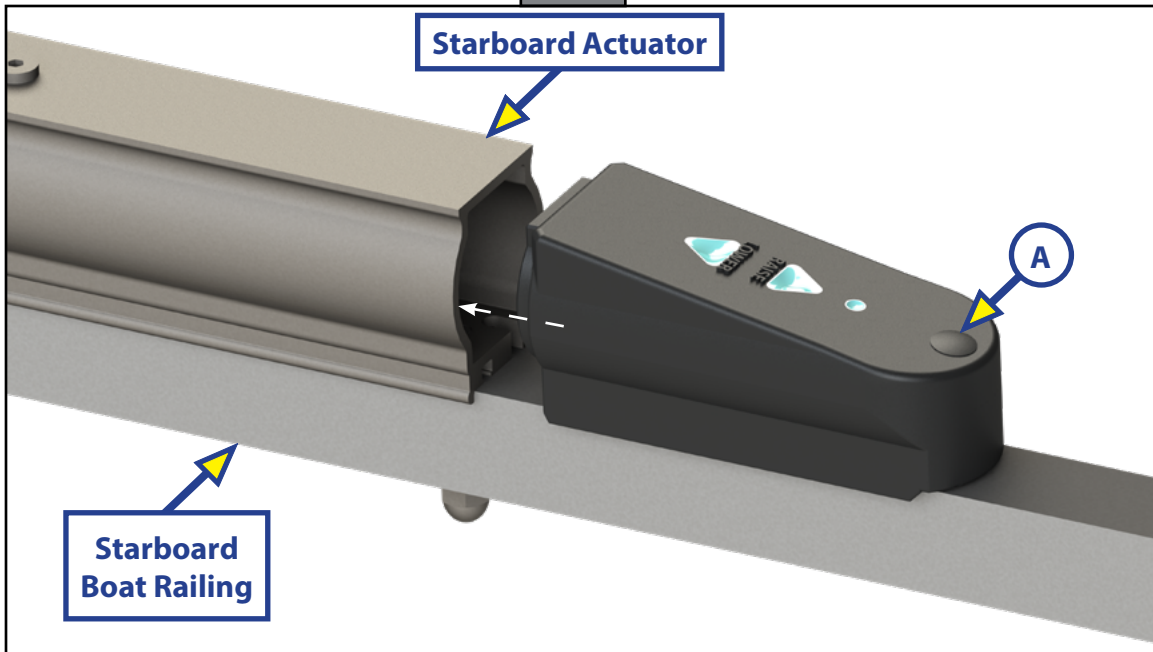
Touch Controller and Nose Mount Cap

The Lippert Quick Connect (QC) Touch Controller is pre-wired to the system frame harnesses. The touch controller and nose mount cap are part of the complete system frame, but requires attachment to the boat's railings.

Attach the QC touch controller as follows:

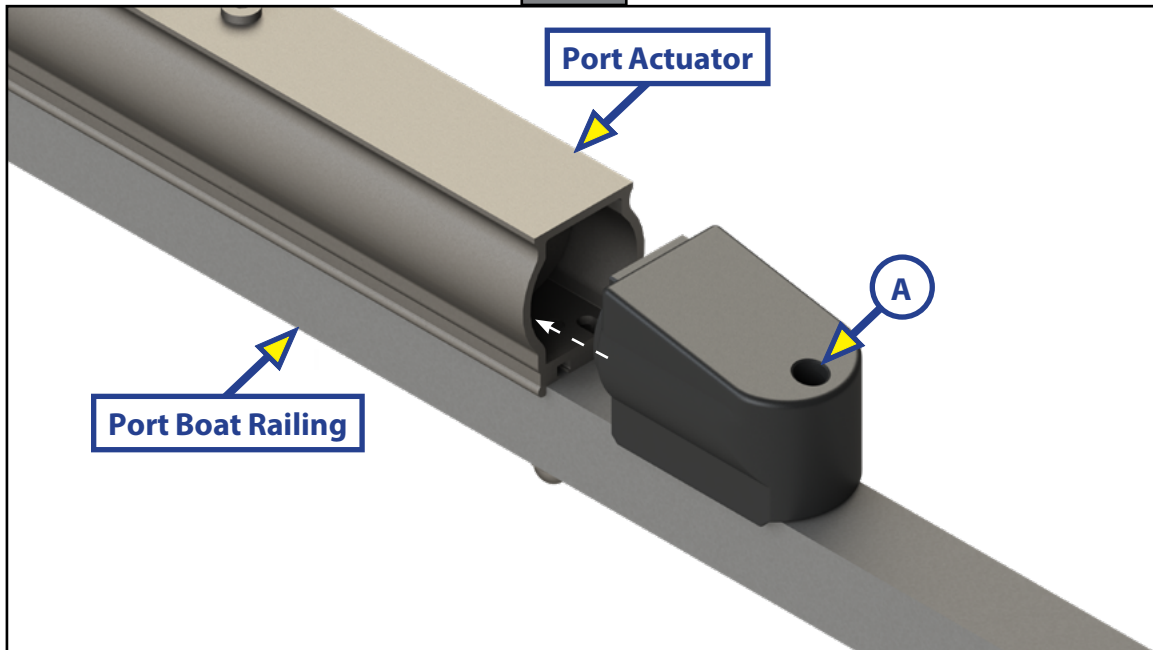
1. Remove the protective cap over the touch controller's mounting screw (Fig. 4A).
2. Carefully tuck excess controller and actuator wires into the open end of the actuator.
3. Install the touch controller into the end of the actuator while aligning the controller's base with the top of the boat railing (Fig. 4).
4. Fasten the front of the controller to the boat railing with the provided screw.
5. Reinstall the previously removed (step 1) protective cap over the mounting screw.
6. Remove the protective cap over the nose mount cap mounting screw (Fig. 5A).
7. Carefully tuck excess actuator wires into the open end of the actuator.
8. Install the nose mount cap into the end of the actuator while aligning the cap's base with the top of the boat railing (Fig. 5).
9. Fasten the front of the nose mount cap to the boat railing with the provided screw.
10. Reinstall the previously removed (step 6) protective cap over the mounting screw.

Fig. 4



Note: Actuator wire harness not shown for clarity.

Fig. 5



Note: Actuator wire harness not shown for clarity.

Operation

Quick-Connect Power Bimini System

1. Remove the boot from the bimini top.
2. Turn on electrical power to the boat.

⚠ WARNING

Only open the bimini top indoors when testing for proper installation. Opening the bimini top outdoors subjects the system to possible strong winds that could result in severe product damage.
Only open the bimini top indoors when testing product for proper operation.

⚠ WARNING

Do NOT fully open the bimini frame without the canvas top installed when testing product for proper operation. 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.

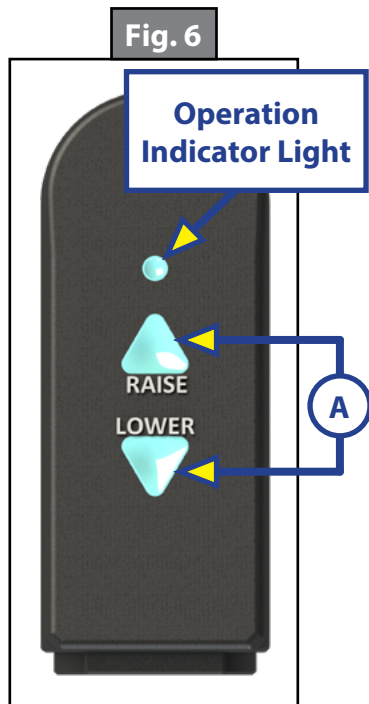
3. Use the touch controller or Bluetooth app to partially raise and lower the bimini top to ensure proper installation.

Note: Do **NOT** fully open the QC bimini system 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.

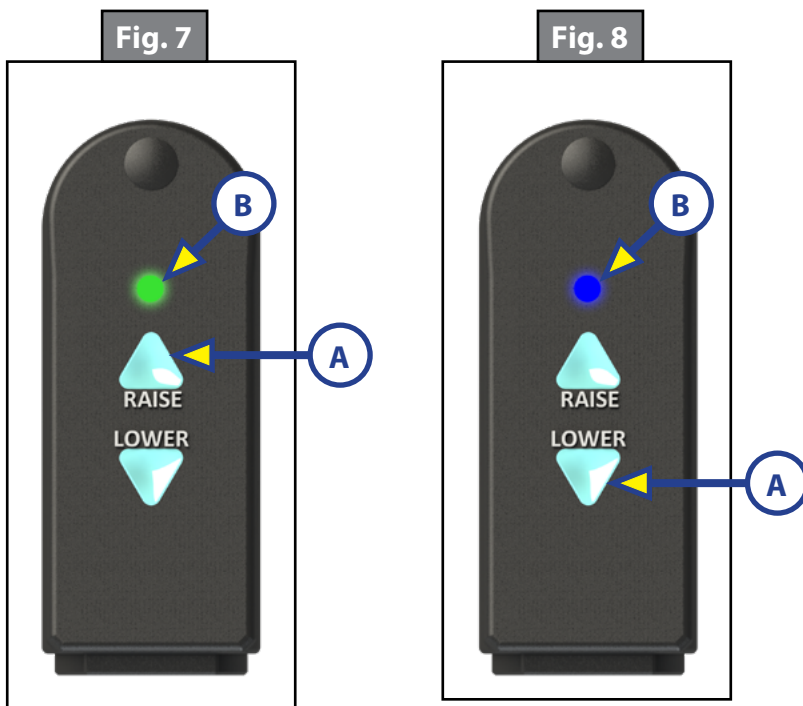
The Touch Controller uses touch-sensitive buttons (Fig. 6A), which do not require the mechanical motion of depressing a button. Simply place, and keep a finger on a touch control button to activate the system. Removing the finger from a touch control button immediately stops the system; the bimini top remains in the halted state (configuration) until a touch control button is touched again.



- A. Turn on electrical power to the boat.
- B. If necessary, remove the protective boot from the bimini top.
- C. Touch and hold the controller's **RAISE** button (Fig. 7A) to fully extend the bimini top.

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

- I. The controller's operation indicator light will turn on green (Fig. 7B).
 - II. The light will turn off after the system has completed its travel.
- D. Touch and hold the controller's **LOWER** button (Fig. 8A) to fully retract the bimini top.
 - I. The controller's operation indicator light will turn on blue (Fig. 8B).
 - II. The light will turn off after the system has completed its travel.



- E. Alternately operate the controller's **RAISE** and **LOWER** buttons to place the bimini top in various positions to ensure proper QC 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 Connect app.

Note: When using SureShade as the search criteria, more than one SureShade app may appear (Fig. 9). Make sure to select SureShade Connect (Fig. 9A).

- A. Install and open the app.
- B. Tap the I Accept button (Fig. 10A) to accept the License Agreement.

Fig. 9

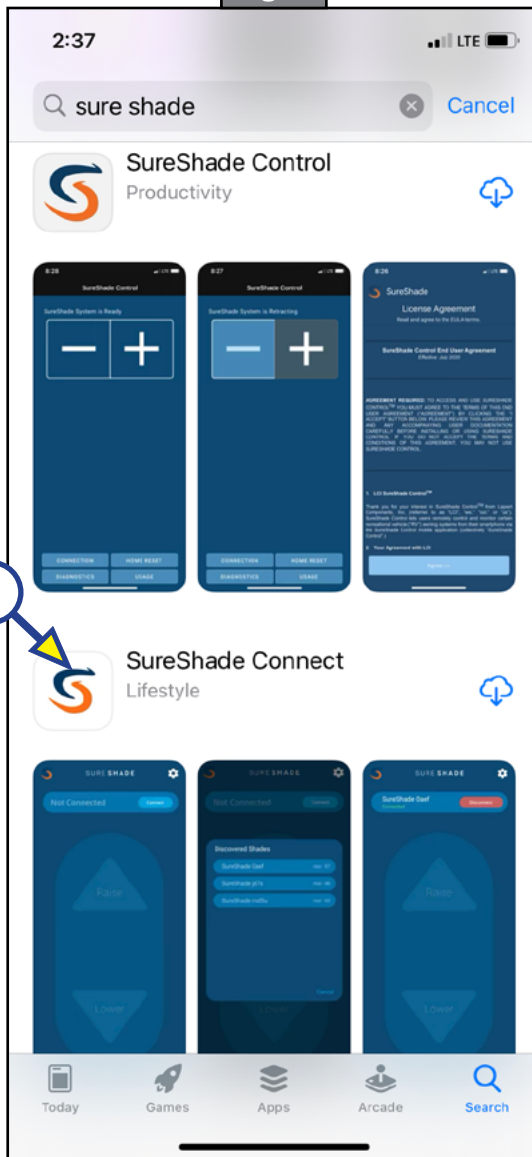
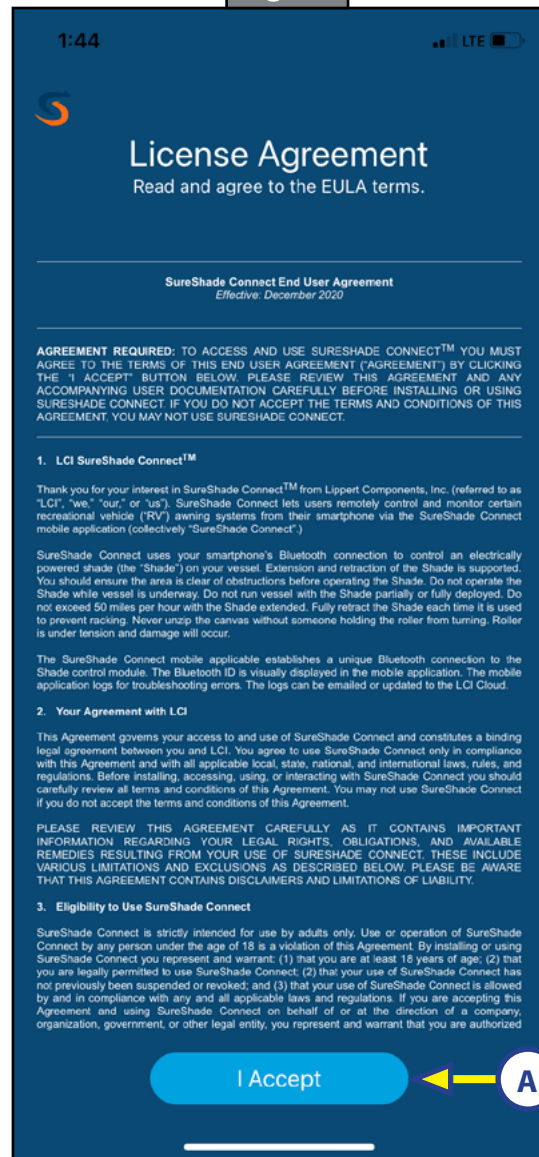
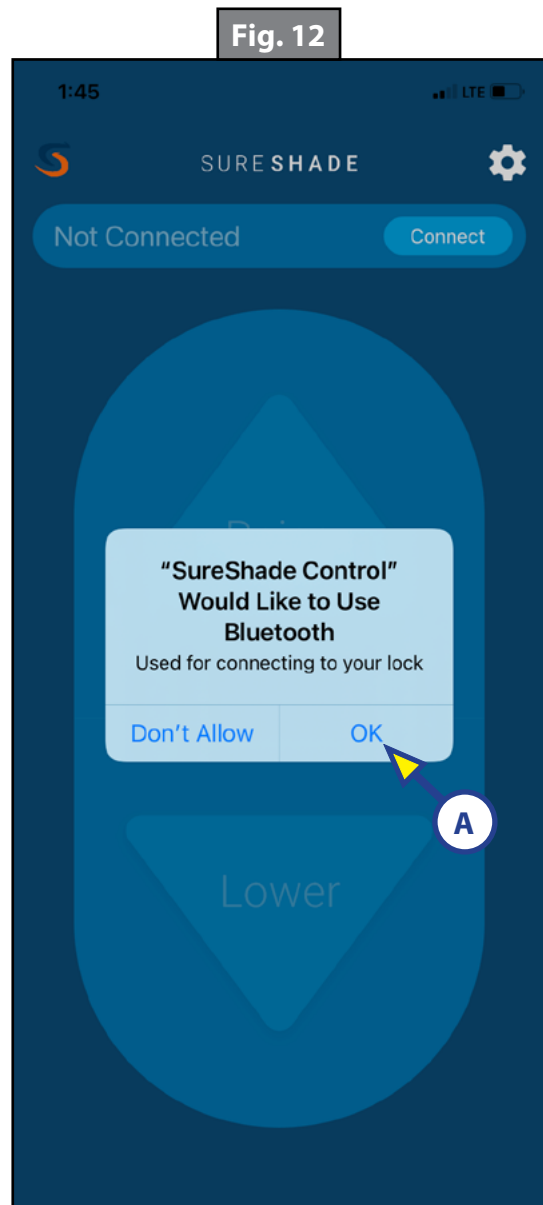
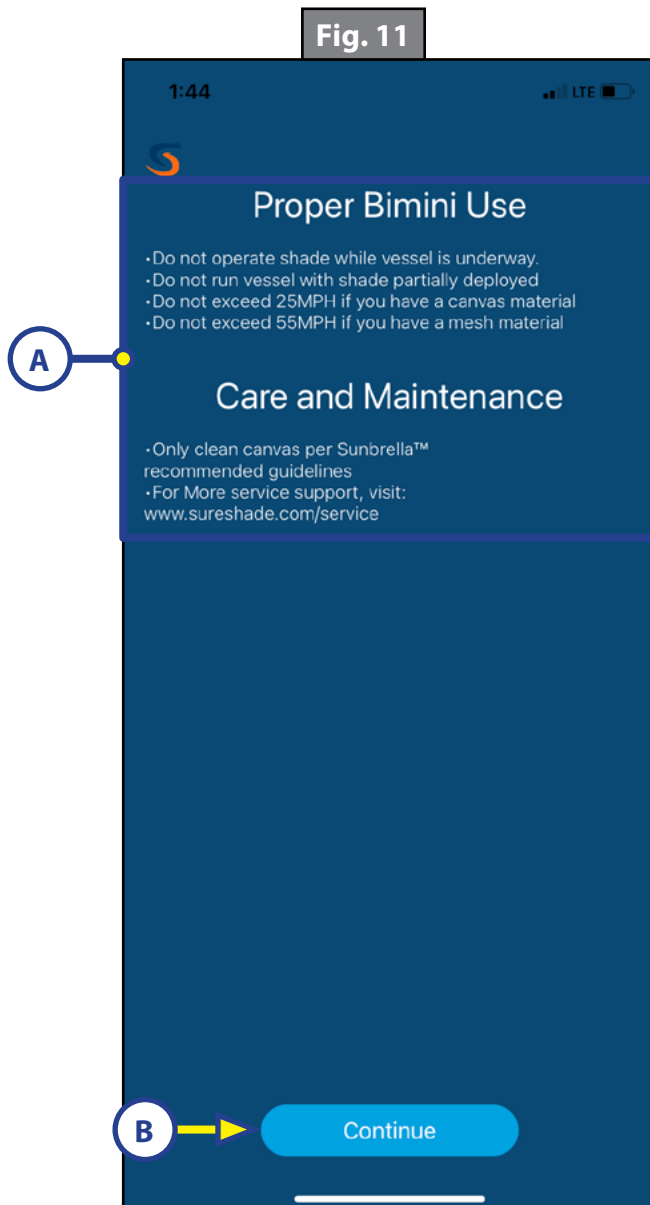


Fig. 10



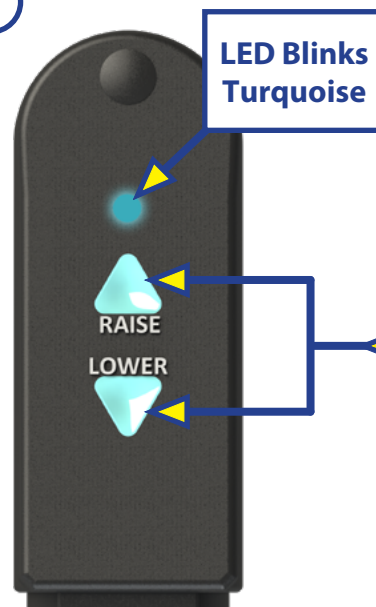
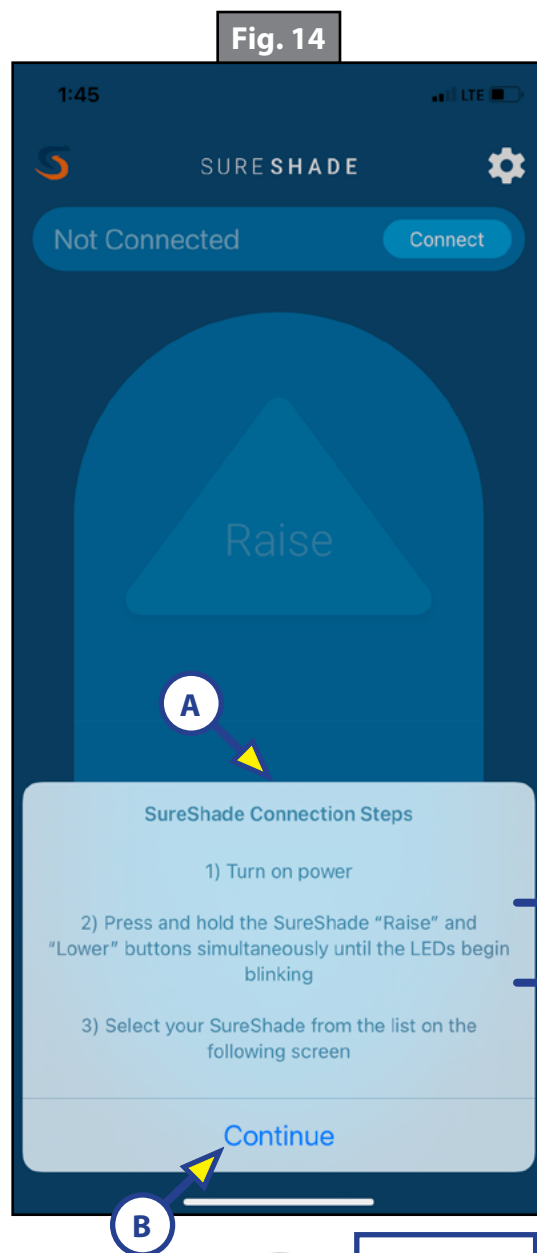
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- C. Read the Proper Bimini Use and Care and Maintenance statements (Fig. 11A), then tap the Continue button (Fig. 11B).
- D. Tap OK for Bluetooth (Fig. 12A).



E. Tap the Connect button (Fig. 13A).

F. Follow the SureShade Connection Steps (Fig. 14A), then tap Continue (Fig. 14B).



- G. Select the desired bimini from the Available Biminis list (Fig. 15).
- H. The Touch Controller will begin pairing itself with the smart device (Fig. 16).

Fig. 15

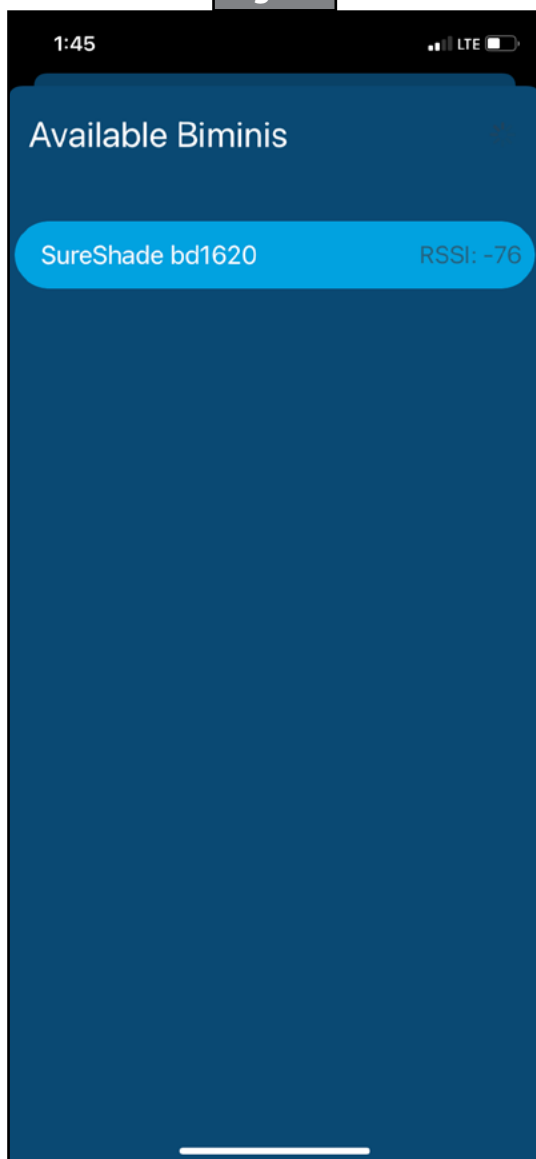
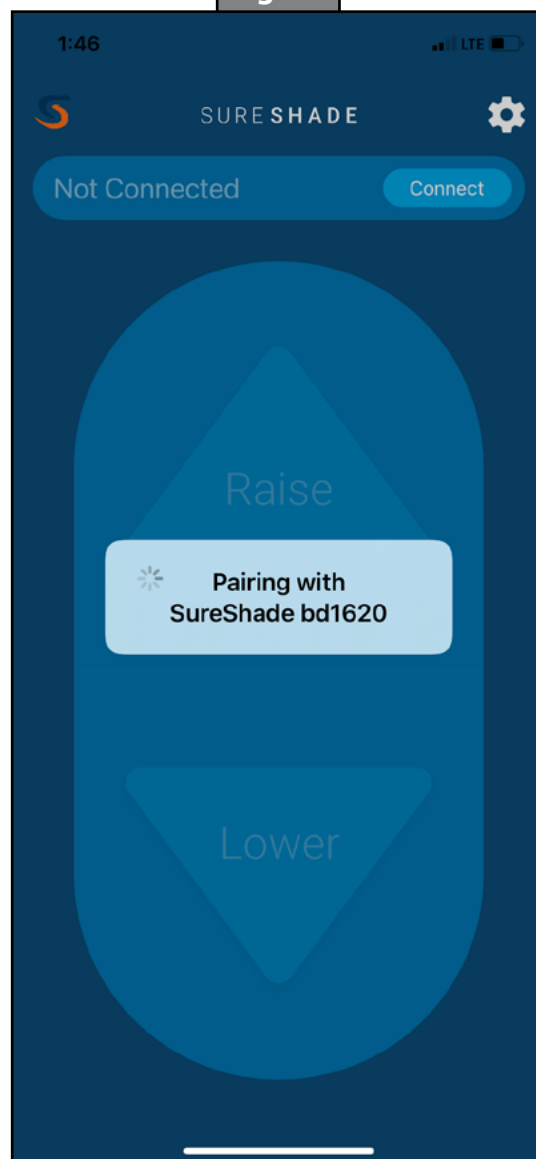


Fig. 16



- I. Tap the Pair button (Fig. 17A) 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. 18).

Fig. 17

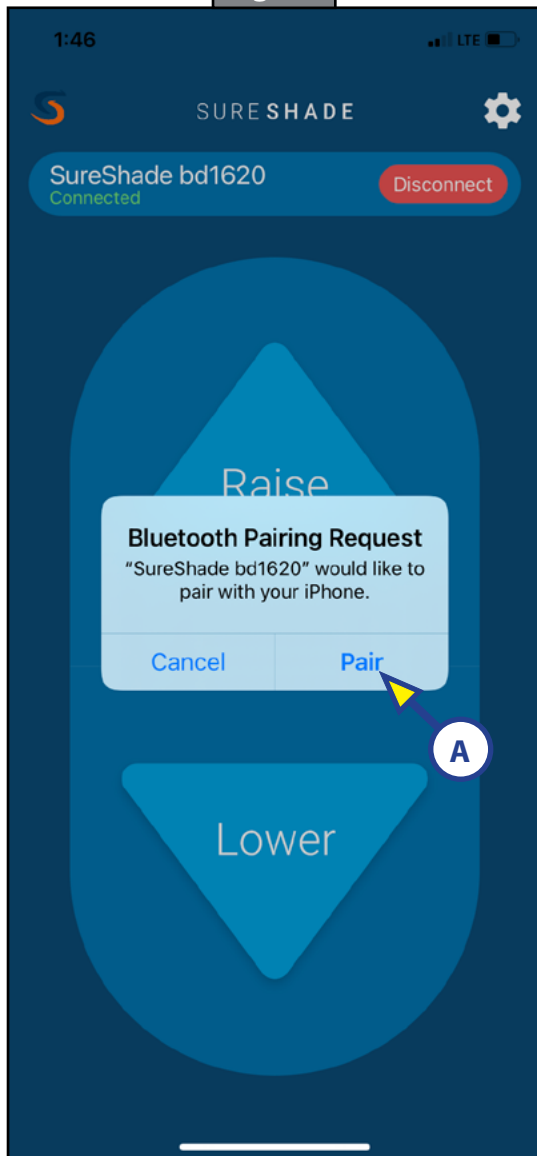
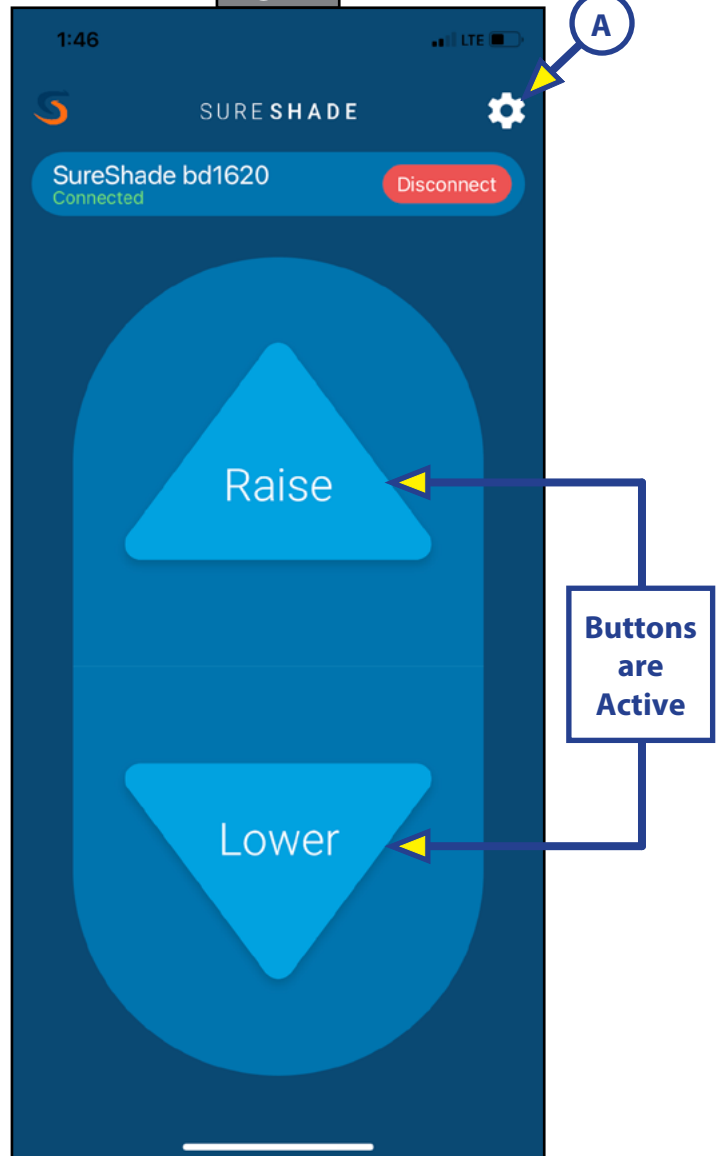


Fig. 18



⚠ WARNING

Only open the bimini top indoors when testing for proper installation. Opening the bimini top outdoors subjects the system to possible strong winds that could result in severe product damage.

Only open the bimini top indoors when testing product for proper operation.

- K. Tap and hold the **Raise** button (Fig. 19A) to extend the bimini top.

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

- L. Tap and hold the **Lower** button (Fig. 20A) 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. 19



Fig. 20



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. 18), tap the gear icon (Fig. 18A) to access the Settings screen (Fig. 21).
 - B. Tap the slider button (Fig. 21A) 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-Connect off (Fig. 22A).
 - D. Tap the Unpair button (Fig. 22B) for the paired/connected shade.

Fig. 21

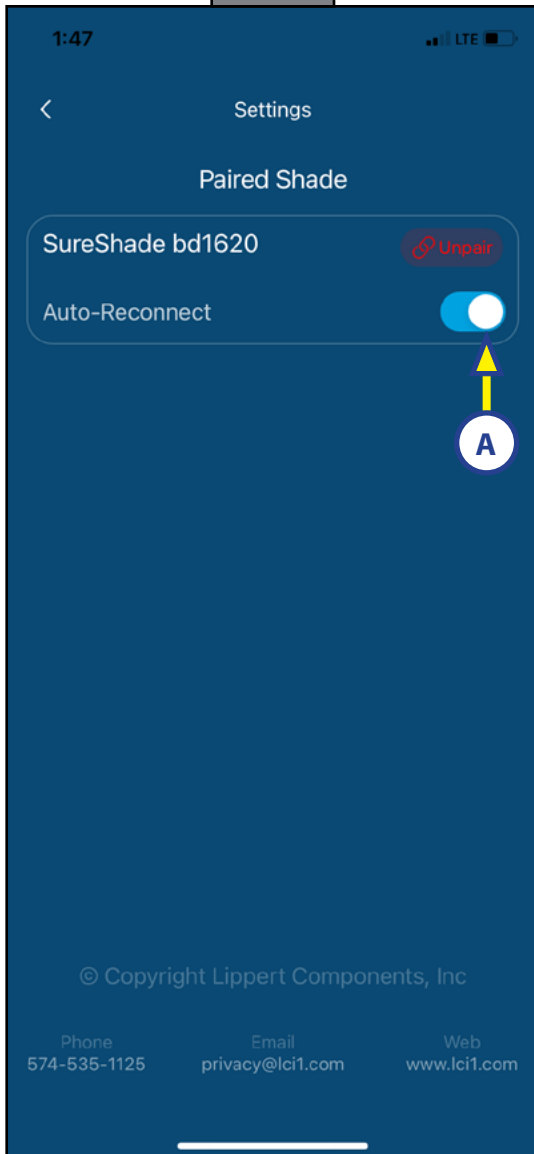
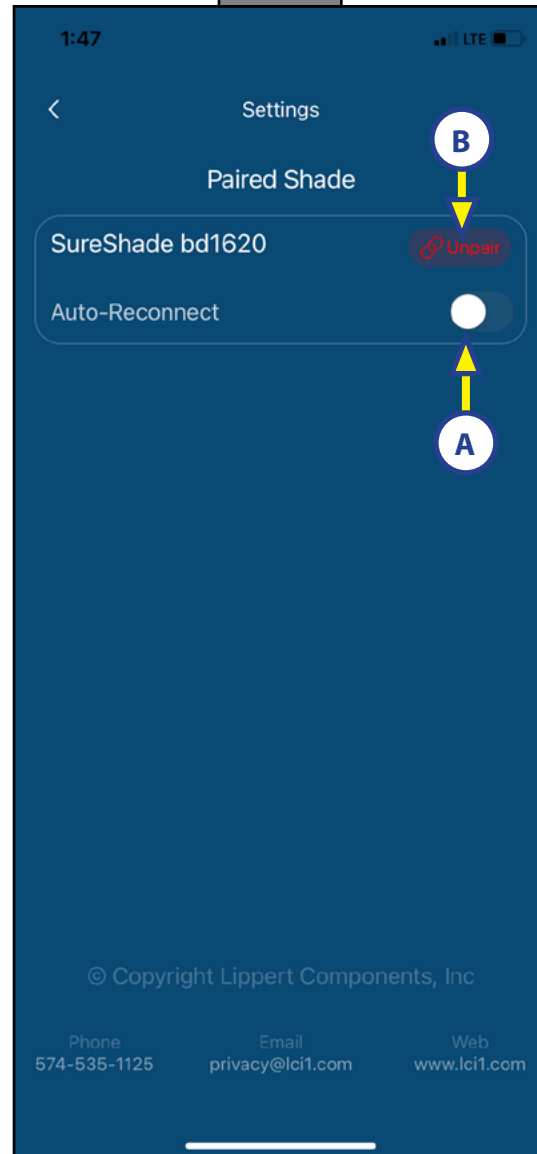
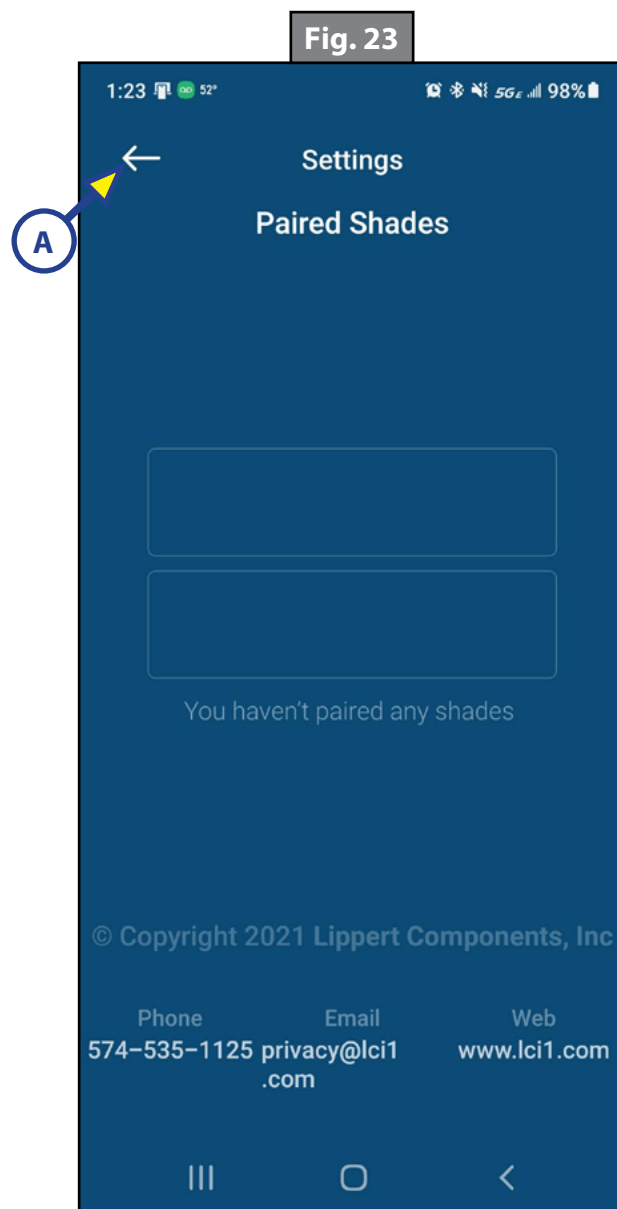


Fig. 22



- E. The Paired Shades screen (Fig. 23) will reflect the removed shade.
- F. Tap the Back arrow (Fig. 23A) to return to the Connect screen (Fig. 13).



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 (Fig. 24). Make sure to select SureShade Connect (Fig. 24A).

- A. Install (Fig. 25A) and open the app (Fig. 26).

Fig. 24

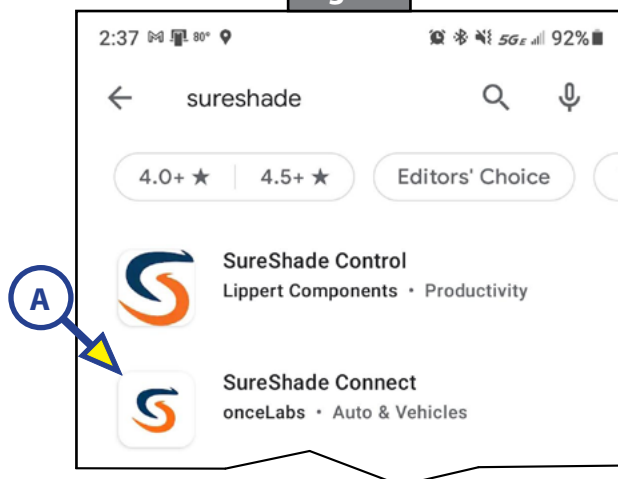


Fig. 25

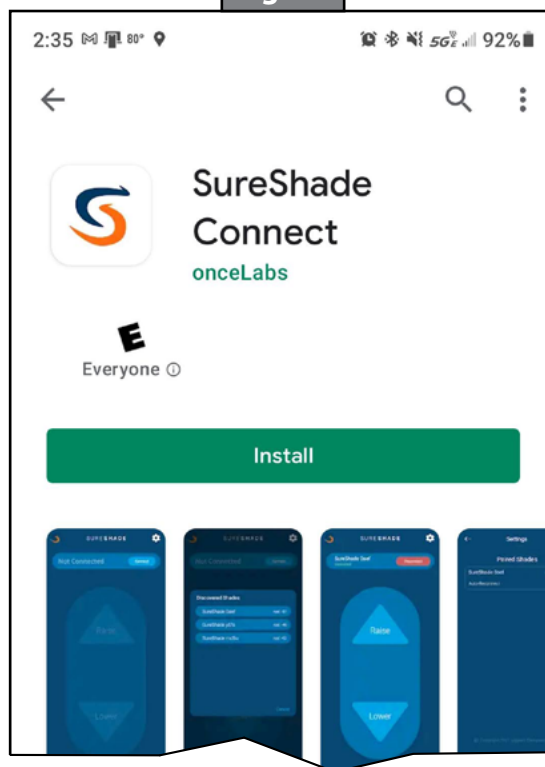


Fig. 26



- B. Tap the I Accept button (Fig. 27A) to accept the License Agreement.
- C. Read the Proper Bimini Use and Care and Maintenance statements (Fig. 28A), then tap the Continue button (Fig. 28B).

Fig. 27

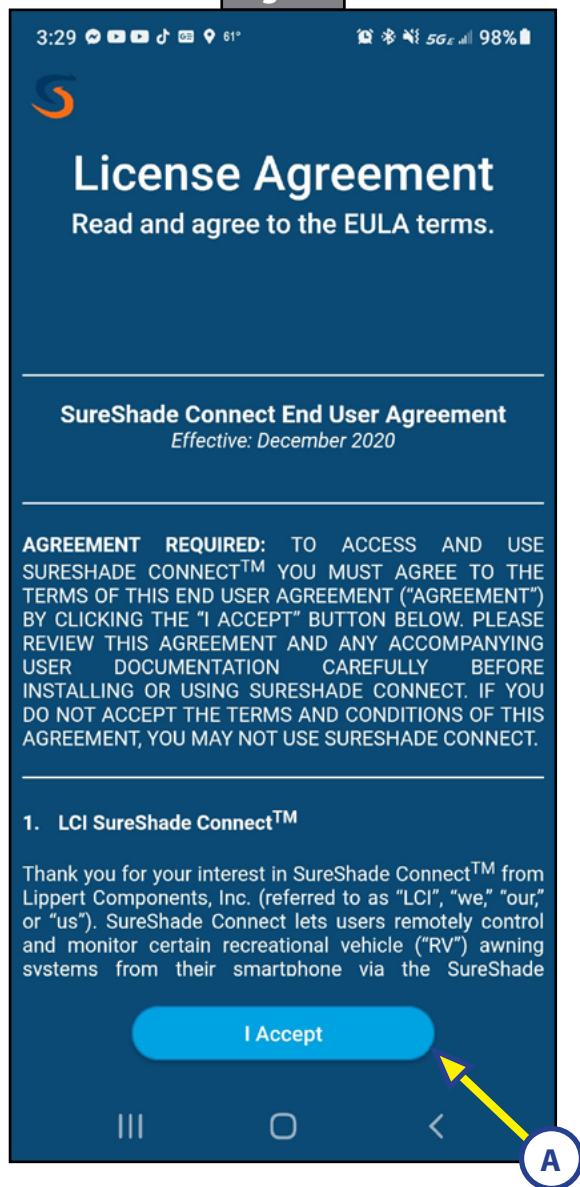
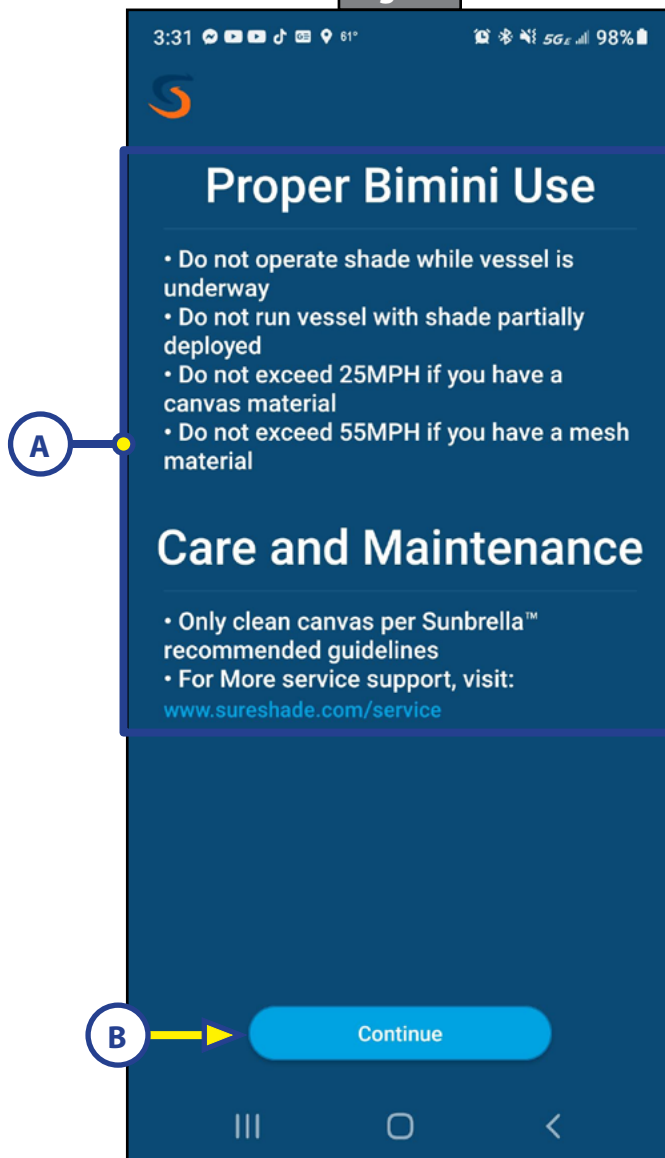
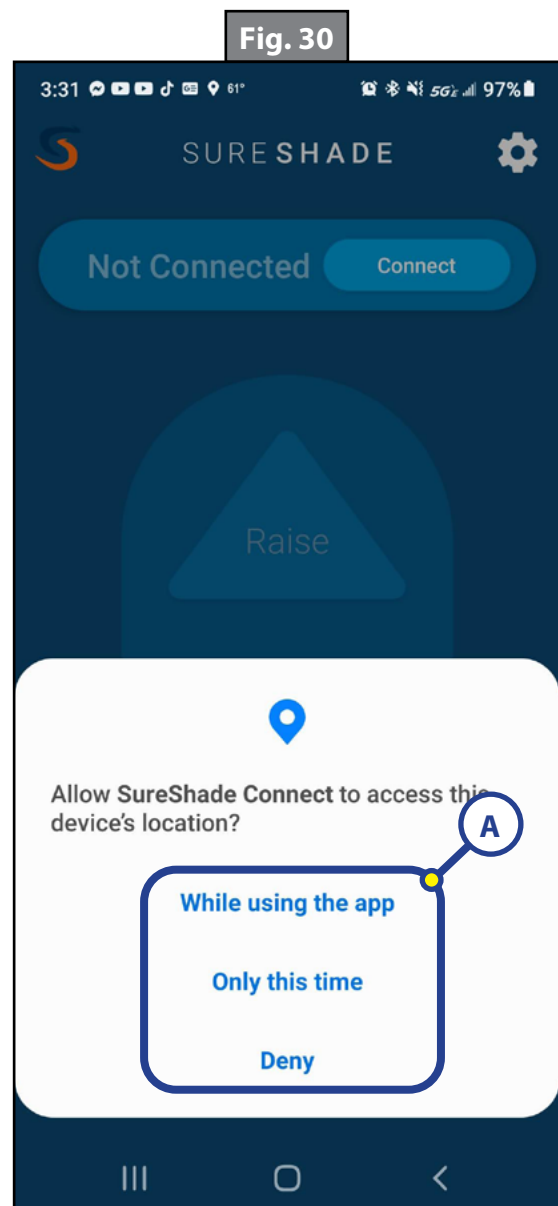
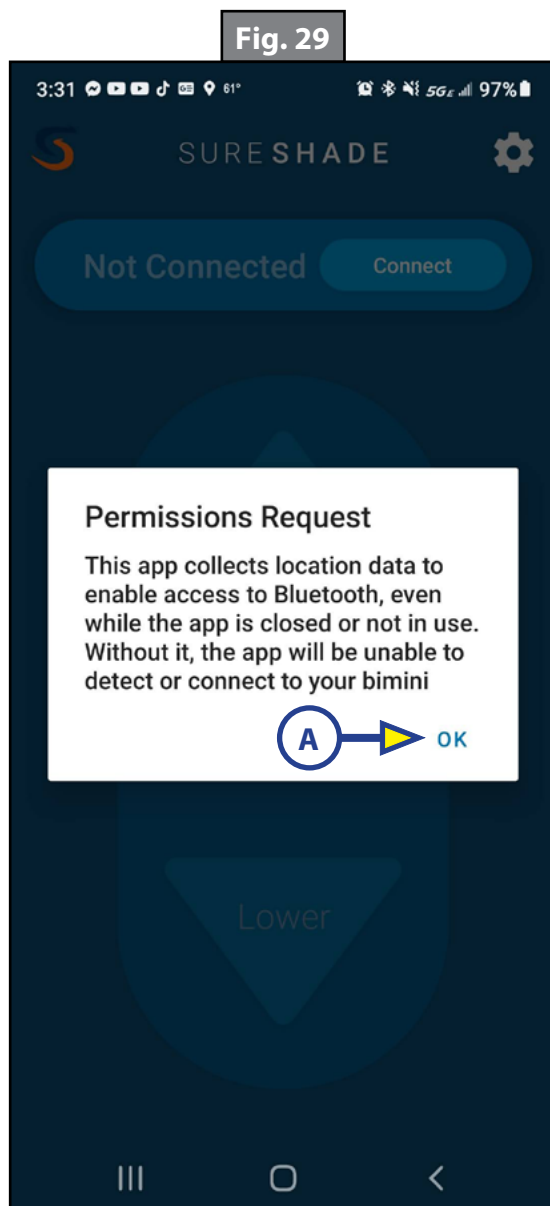


Fig. 28



- D. Tap OK (Fig. 29A) in the Permissions Request window.
- E. Tap the desired option (Fig. 30A) 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. 31A).

G. Follow the SureShade Connection Steps (Fig. 32A), then tap Continue (Fig. 32B).

Fig. 31

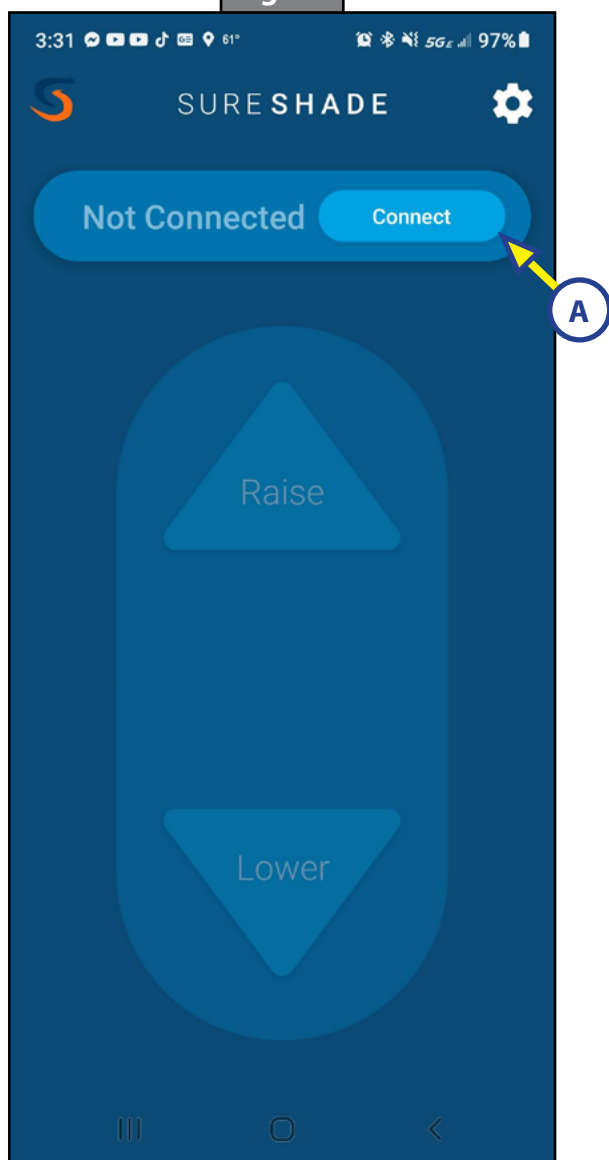
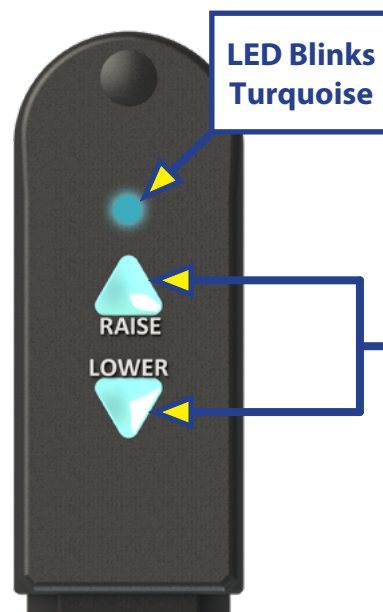
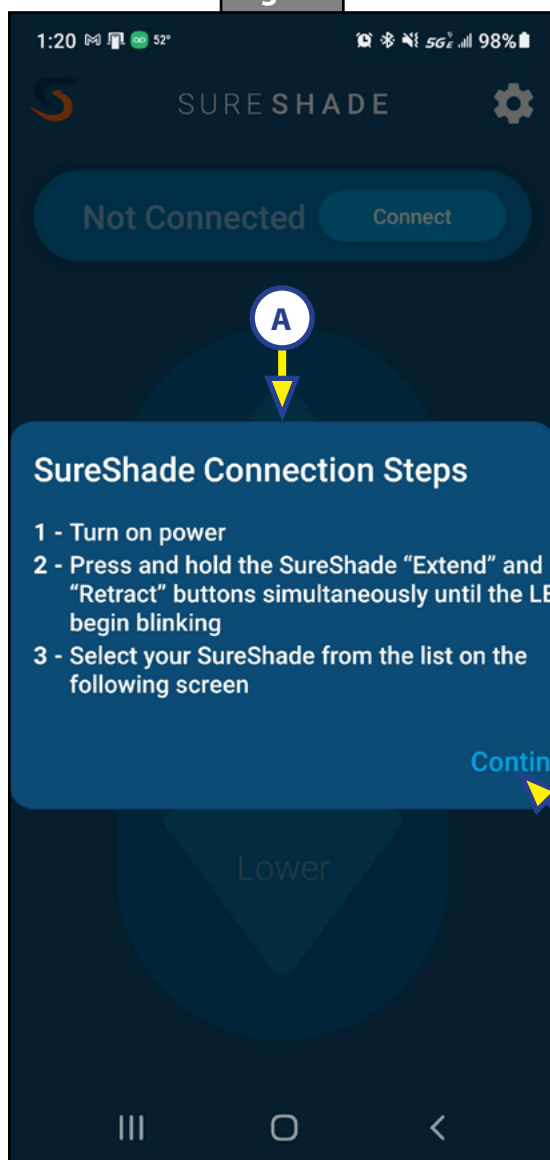


Fig. 32



- H. Select the desired bimini from the Available Biminis list (Fig. 33).
- 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. 34).

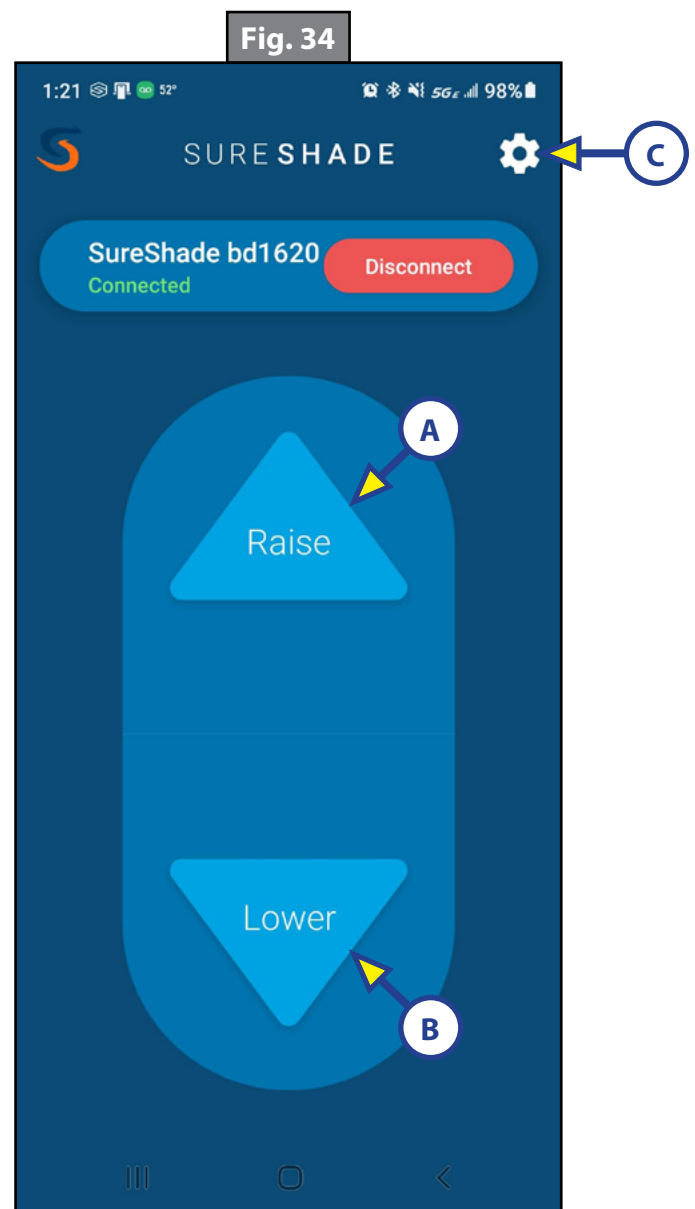
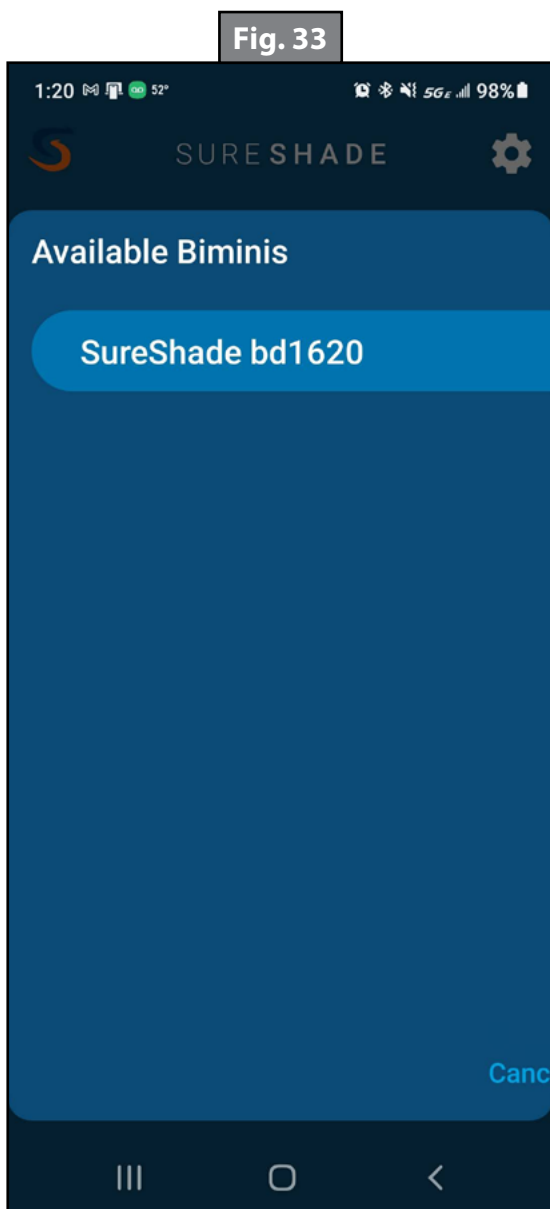
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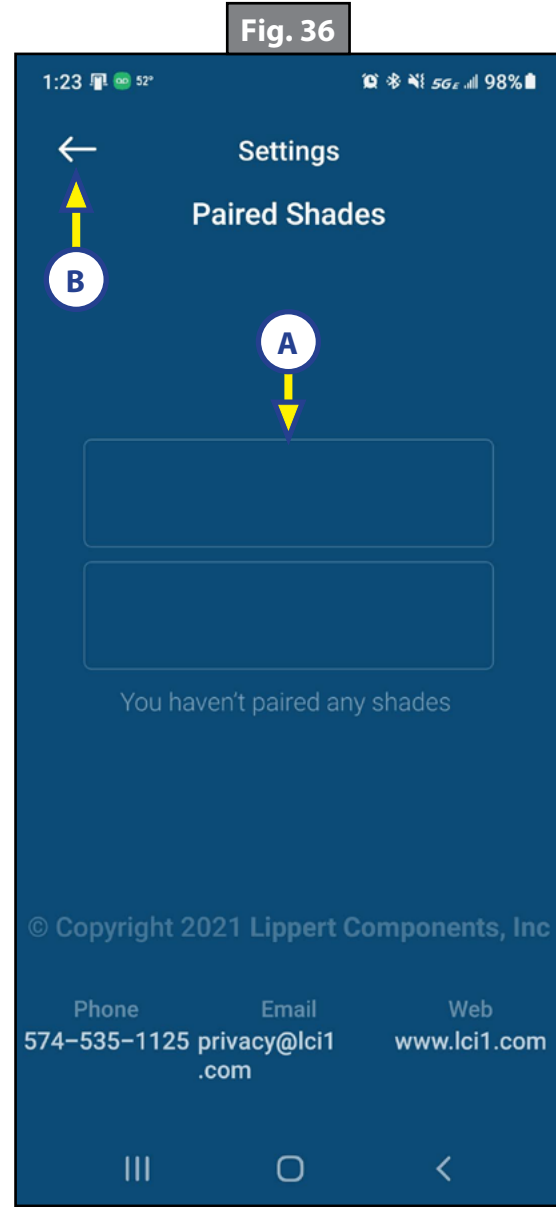
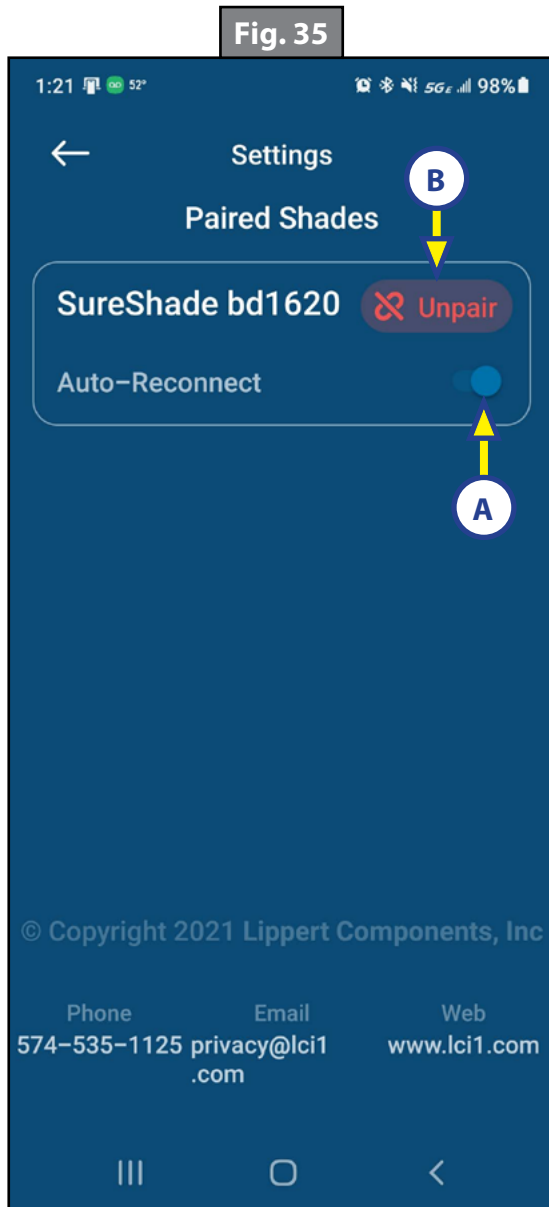
Only open the bimini top indoors when testing product for proper operation.

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

- K. Tap and hold the **Raise** button (Fig. 34A) to extend the bimini top.
- L. Tap and hold the **Lower** button (Fig. 34B) 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. 35), tap the gear icon (Fig. 34C) to access the Settings screen (Fig. 35).
 - B. Tap the slider button (Fig. 35A) 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-Connect off.
 - D. Tap the Unpair button (Fig. 35B) for the paired/connected shade.
 - E. The Paired Shades screen (Fig. 36A) will reflect the removed shade.
 - F. Tap the Back arrow (Fig. 36B) to return to the Connect screen (Fig. 31).



Following the testing of installed components, fully retract the bimini top and install the protective boot. Turn off electrical power to the boat.

Troubleshooting the Complete Quick-Connect Bimini System

What is Happening	Why?	What Should Be Done?
Top does not raise.	No power.	Turn on boat's electrical power.
	Bad electrical harness.	Contact Lippert representative.
	Bad actuator.	
Top does not fully raise.	Bad electrical harness.	Contact Lippert representative.
	Bad actuator.	
Top does not fully close.	Bad electrical harness.	Contact Lippert representative.
	Bad actuator.	
Controller power indicator light not lit.	No electrical power.	Turn on boat's electrical power.
	Bad light.	Contact Lippert representative.
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.	Contact Lippert representative.
	Bad controller.	Contact Lippert representative.

Notes

This image shows a single page 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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