



SURESHADE

EXTENDING THE EXPERIENCE

A Lippert Components Company



SureShade® Power Bimini Sport Arm Kit Installation and Owner's Manual

(For Aftermarket Applications)

Table of Contents

Introduction	2
Safety	2
Parts List	3
Resources Required	4
Preparation	4
Custom Length	5
Installation	6
Front Sport Arms	6
Installation of the EZ Clip	10
Operation	11
Extend the Front Sport Arms	11
Retract the Front Sport Arms	11
Troubleshooting	12
Maintenance	12
Notes	12

Power Bimini Front Support Kits	
Part No.	Description
2020134627	36" Bimini Front Support Kit - Clear (Silver) Anodized
2020134628	36" Bimini Front Support Kit - Black Anodized
2020134625	32" Bimini Front Support Kit - Clear (Silver) Anodized
2020134626	32" Bimini Front Support Kit - Black Anodized



SureShade® Power Bimini Sport Arm Kit

Installation and Owner's Manual

(For Aftermarket Applications)

Introduction

The installation of LCI SureShade® front sport arms to the Bimini frame adds structural strength to the overall SureShade Awning assembly during boating at moderate speeds, in gusty winds and inclement weather. LCI SureShade front sport arms are easy to install, easy to deploy and store away neatly and securely when not in use.

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

<https://support.lci1.com/sureshade-power-bimini>

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.

Additional information about this product can be obtained from [lci1.com/support](https://support.lci1.com) or by using the myLCI app. Replacement kits can be ordered from <https://store.lci1.com/> or by using the myLCI app.

The myLCI app is available for free on iTunes® for iPhone® and iPad® and also on Google Play™ for Android™ users.

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

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

Safety

Read and fully 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 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 REMOVE THE BOOT WITH THE BIMINI FRAME IN RADAR POSITION. REAR FRAME CAN FALL CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO THE BOAT.

WARNING

- NEVER ATTEMPT TO OPERATE THE TOP WHILE THE BOAT IS IN MOTION.
- NEVER EXCEED 25 MPH WITHOUT THE BOOT PROPERLY INSTALLED.
- NEVER OPEN THE TOP IN EXCESSIVELY HIGH WINDS, WHICH COULD RESULT IN SERIOUS PERSONAL INJURY, SEVERE PRODUCT AND/OR PROPERTY DAMAGE.
- NEVER TRAILER/TOW THE BOAT WITHOUT THE BOOT ON AND THE TOP IN THE FULL DOWN POSITION.
- NEVER OPEN THE TOP WITHOUT THE CANVAS 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.

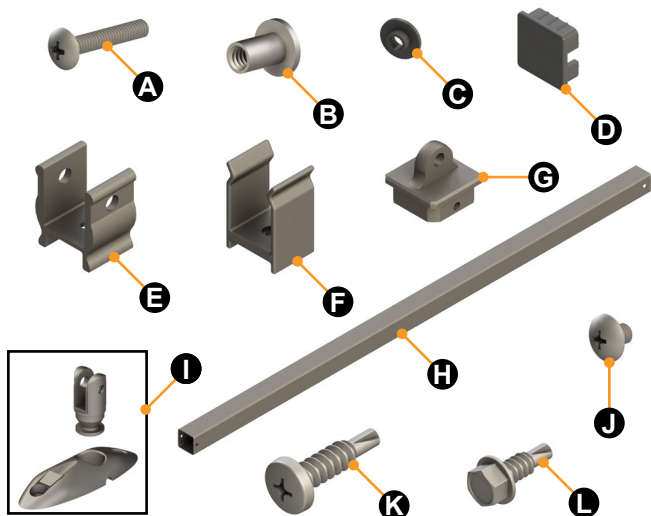
⚠ CAUTION

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.

Parts List



NOTE: Part numbers are shown for identification purposes only. Not all parts are available for individual sale. All parts with a link to the Lippert Store can be purchased.

SureShade® Power Bimini Sport Arm Kit Installation and Owner's Manual (For Aftermarket Applications)

36" Bimini Front Support Kit PN 2020134627 - Clr

Letter	PN	Description	Qty
A	853947	1/4" - 20 x 1 1/2" PHIL TRUSS MS SS	2
B	853950	Barrel Nut with Loctite®, 1/4" - 20 x 1/2"	2
C	853970	H-Bracket Plastic Pivot Bushings	4
D	853966	End Cap - 1.25" SQ	2
E	854136	Bracket, 1.25" (h) x 1.490" (w), Clr Anodized (Type II)	2
F	861714	EZ Install SQ Tubing Clip (1.25"), Gray	2
G	2020102622	SQ Eye End Fitting, Stainless Anodized (Type II)	2
H	2020109446	Tube, 1.25" x 1.25" x 0.063", 36" (lmg), Clr Anodize	2
I	2020104413	Quick Release Bimini Top Hinge Assembly	2
J	853943	Screw, #10 - 32 x 1/4" TRH PSV PH FT SST	4
K	853953	Screw, #10 x 3/4", Zn RD HD, Self-drilling	6
L	853954	Screw, 1/4" - 14 x 3/4", HWH PSV Hex SLFDR SST	2

36" Bimini Front Support Kit PN 2020134628 - Blk

Letter	PN	Description	Qty
A	853947	1/4" - 20 x 1 1/2" PHIL TRUSS MS SS	2
B	853950	Barrel Nut with Loctite®, 1/4" - 20 x 1/2"	2
C	853970	H-Bracket Plastic Pivot Bushings	4
D	853966	End Cap - 1.25" SQ	2
E	854135	Bracket, 1.25" (h) x 1.490" (w), Blk Anodized (Type II)	2
F	2020000071	EZ Install SQ Tubing Clip (1.25"), Blk	2
G	2020102622	SQ Eye End Fitting, Stainless Anodized (Type II)	2
H	2020109445	Tube, 1.25" x 1.25" x 0.063", 36" (lmg), Blk Anodize	2
I	2020104413	Quick Release Bimini Top Hinge Assembly	2
J	853943	Screw, #10 - 32 x 1/4" TRH PSV PH FT SST	4
K	853953	Screw, #10 x 3/4", Zn RD HD, Self-drilling	6
L	853954	Screw, 1/4" - 14 x 3/4", HWH PSV Hex SLFDR SST	2

Resources Required

- 1 - 2 people, depending on the task
- Electric or cordless drill or screw gun
- Phillips head screwdriver (2)
- Phillips head drive bit
- 3/8" hex drive socket
- Tape measure
- Non-permanent method of marking

Preparation

Prior to ordering the desired kit, determine the proper size (length) of the support tube required to adequately meet the pontoon's structure and floor plan.

1. With the frame assembly in its fully extended position, take a vertical measurement from the flat surface of a railing to the front strut on the side of the boat that may have an obstruction, such as a door or seat, that may get in the way of the front sport arms.

NOTE: The actual position of the sport arm tube may have to move forward slightly to provide a 1/16" gap between the tube's edge and the front strut (Fig.1).

2. If the measurement is 34"-38", or greater, use 36" sport arms.

NOTE: For the 36" sport arms, use 38" total as a guide for the added hardware

3. If the measurement is 32"-34", or less, use 32" sport arms.

NOTE: For the 32" sport arms, use 34" total as a guide for the added hardware

Use 36" sport arms if possible. The longer the sport arms that are used, the more strength will be added to the front frame. If not possible, use the 32" sport arms to achieve the recommended added strength to the front frame.

Make sure to order the color that matches the frame;

- clear (silver) or
- black.

32" Bimini Front Support Kit PN 2020134625 - Clr			
Letter	PN	Description	Qty
A	853947	1/4" - 20 x 1 1/2" PHIL TRUSS MS SS	2
B	853950	Barrel Nut with Loctite®, 1/4" - 20 x 1/2"	2
C	853970	H-Bracket Plastic Pivot Bushings	4
D	853966	End Cap - 1.25" SQ	2
E	854136	Bracket, 1.25" (h) x 1.490" (w), Clr Anodized (Type II)	2
F	861714	EZ Install SQ Tubing Clip (1.25"), Gray	2
G	2020102622	SQ Eye End Fitting, Stainless Anodized (Type II)	2
H	2020104193	Tube, 1.25" x 1.25" x 0.063", 32" (Ing), Clr Anodize	2
I	2020104413	Quick Release Bimini Top Hinge Assembly	2
J	853943	Screw, #10 - 32 x 1/4" TRH PSV PH FT SST	4
K	853953	Screw, #10 x 3/4", Zn RD HD, Self-drilling	6
L	853954	Screw, 1/4" - 14 x 3/4", HWH PSV Hex SLFDR SST	2

32" Bimini Front Support Kit PN 2020134626 - Blk			
Letter	PN	Description	Qty
A	853947	1/4" - 20 x 1 1/2" PHIL TRUSS MS SS	2
B	853950	Barrel Nut with Loctite®, 1/4" - 20 x 1/2"	2
C	853970	H-Bracket Plastic Pivot Bushings	4
D	853966	End Cap - 1.25" SQ	2
E	854135	Bracket, 1.25" (h) x 1.490" (w), Blk Anodized (Type II)	2
F	2020000071	EZ Install SQ Tubing Clip (1.25"), Blk	2
G	2020102622	SQ Eye End Fitting, Stainless Anodized (Type II)	2
H	2020104192	Tube, 1.25" x 1.25" x 0.063", 32" (Ing), Blk Anodize	2
I	2020104413	Quick Release Bimini Top Hinge Assembly	2
J	853943	Screw, #10 - 32 x 1/4" TRH PSV PH FT SST	4
K	853953	Screw, #10 x 3/4", Zn RD HD, Self-drilling	6
L	853954	Screw, 1/4" - 14 x 3/4", HWH PSV Hex SLFDR SST	2

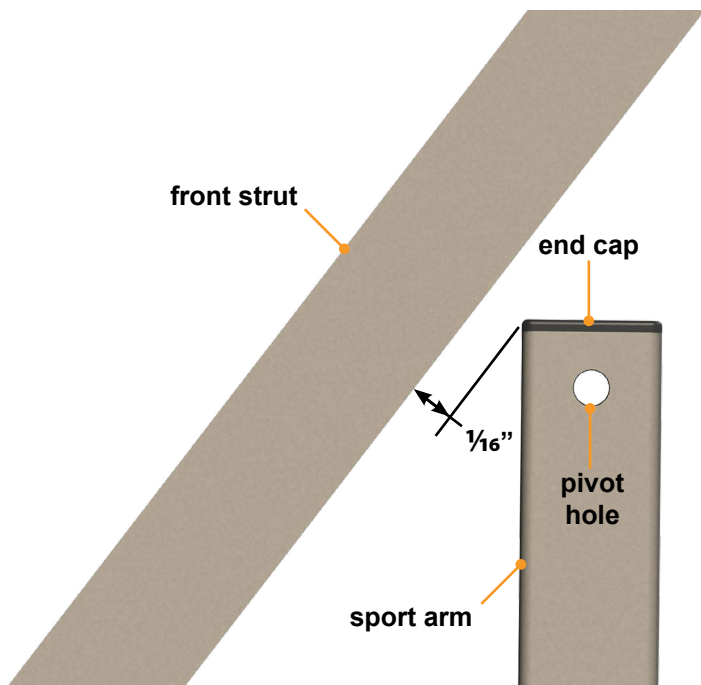


Fig.1

Custom Length

If the 32" or 36" standard sport arm lengths will not work for the previously taken measurement, order the front sport arm that is longer than needed then modify as follows:

1. Remove the end cap from the front sport arms (Fig.2).

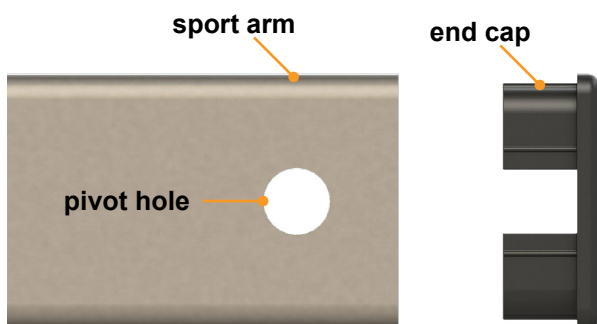


Fig.2

2. Starting at the bottom of the sport arm, use a tape measure and a pencil (Fig.3) to indicate the measurement taken in the Preparation section (step 1).

3. Use a hacksaw or chop saw equipped with a carbide-tipped blade to cut the sport arm at the previously-made mark (cut line) (Fig.3).

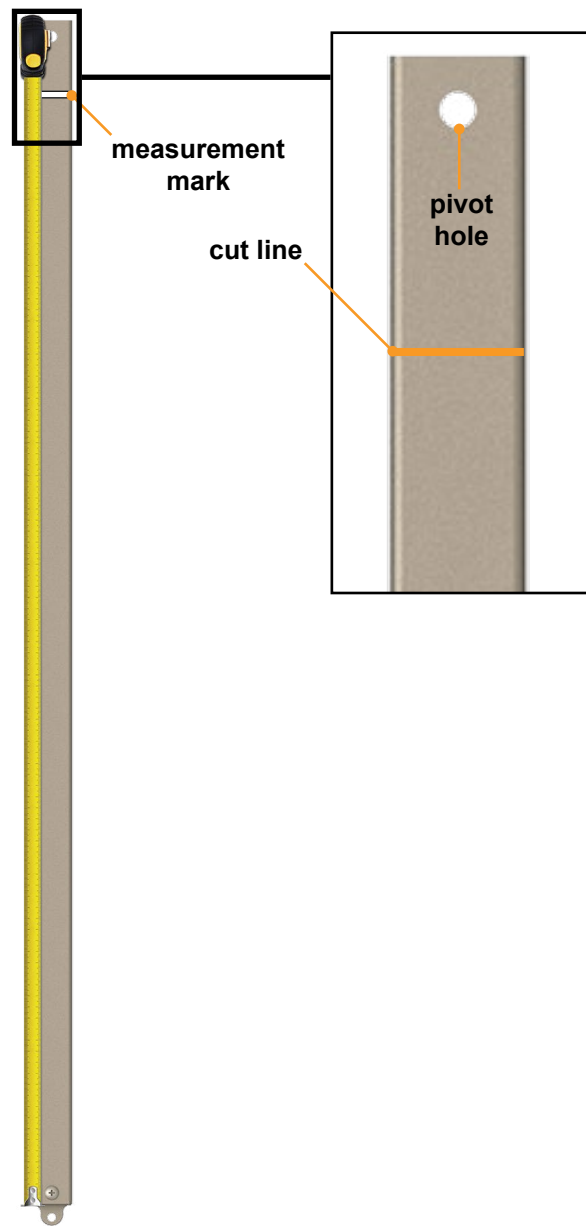


Fig.3

4. Use a tape measure and a pencil to mark $\frac{1}{2}$ " down from the cut end of the front sport arm (Fig.4). Then measure to the center of the width of the sport arm (Fig.4).

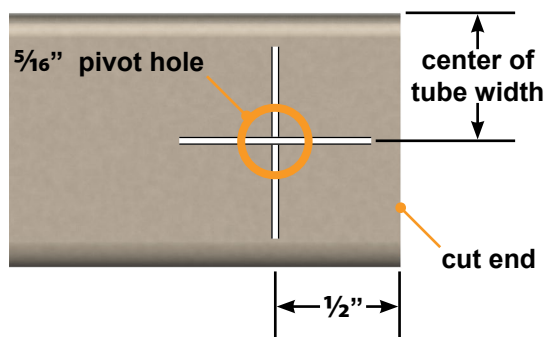


Fig.4

5. Use a $\frac{5}{16}$ " drill bit to drill a new pivot hole through both sides of the sport arm (Fig.5).

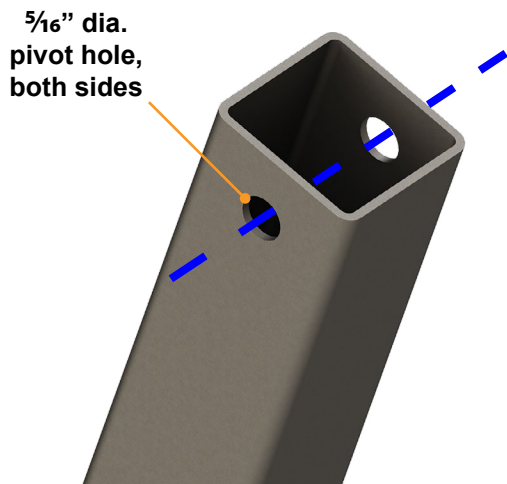


Fig.5

6. Reinsert the previously-removed end cap (step 1).

7. Proceed with normal installation.

Installation

Front Sport Arms

When installing the front sport arms, the ideal placement of the H-bracket, that attaches to the front frame, would be as high up the front frame—towards top of bow—as is possible so that the front sport arms are as close to straight up and down (vertical) and perpendicular to the top rail of the boat.

Such ideal positioning of the front sport arms is not always possible due to doors or furniture installed on the boat. If that is the case, start the installation on the side with the obstruction, which is commonly a gate on the port side or furniture on the starboard side, and finish on the opposite side to match it.

NOTE: Mounting the H-brackets for the front sport arms as far up the front frame as possible will add more strength to the top when the front sport arms are used.

1. Fully open the Power Bimini top (Fig.6) until the auto-reset breaker trips.

NOTE: The tripped breaker ensures that the Bimini top is fully deployed.



Fig.6

2. Attach one H-bracket to each front sport arm as follows:

A. Insert a plastic snap bushing (Fig.7A) into each hole from the inside of the H-bracket (Fig.7B).

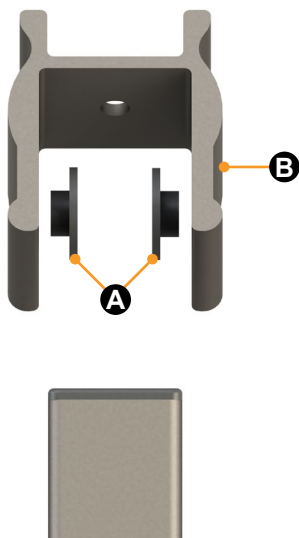


Fig.7

B. Place the H-bracket over the top of the front sport arm, aligning the hole of the snap bushings with the holes of the front sport arm (Fig.8).

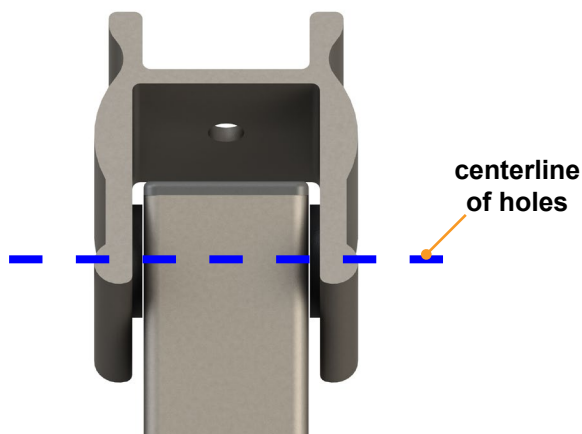


Fig.8

C. Insert the barrel nut (Fig.9A) into one hole of the H-bracket and the barrel bolt (Fig.9B) into the other H-bracket hole. Hand-tighten the H-bracket in place.

NOTE: Do not tighten the bolts at this time. Removal of the H-bracket for later installation on the front frame will be required.

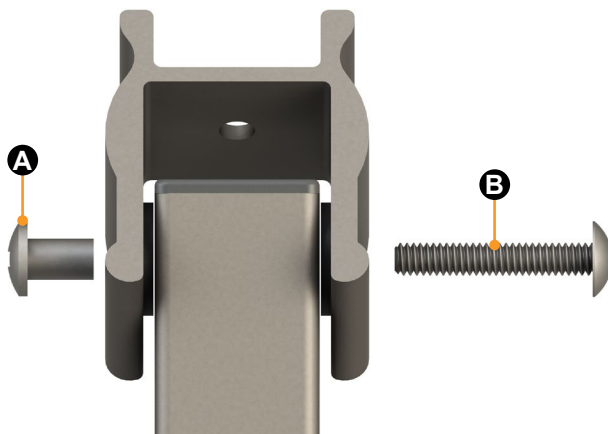


Fig.9

3. Remove the swivel stud (Fig.10A) from the locking plate (Fig.10B) by sliding back the spring-loaded locking button (Fig.10C).

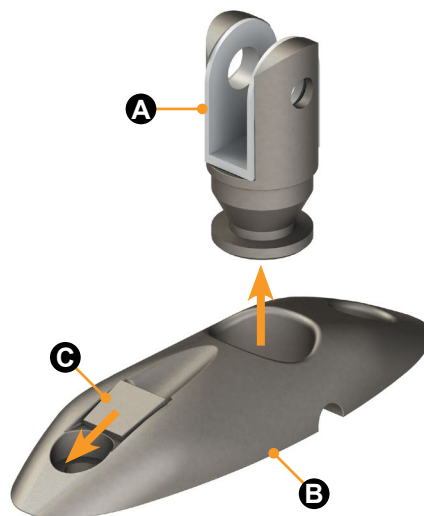


Fig.10

4. Attach the swivel stud (Fig.11A) to the mounting eye (Fig.11B) of the front sport arm with the hinge screw (Fig.11C). This is the end that will attach to the top rail of the boat.

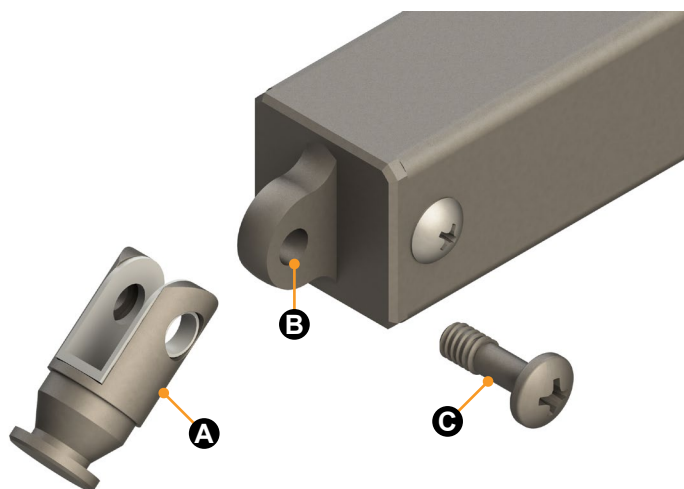


Fig.11

5. Slide the locking button (Fig.12A) on the hinge plate (Fig.12B) back then insert the swivel stud (Fig.12C) into the locking hinge plate.

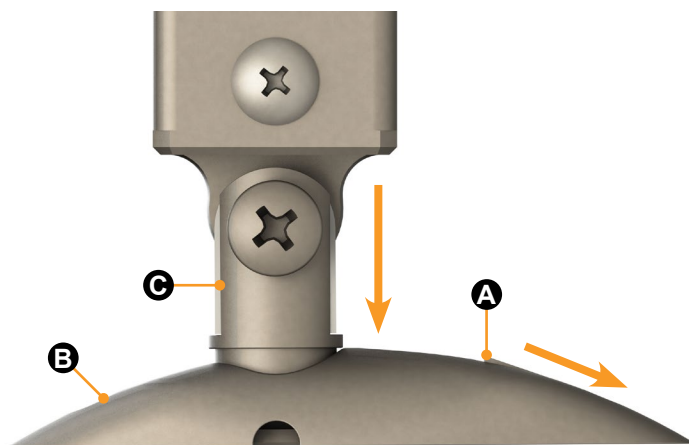


Fig.12

6. Hold the H-bracket (Fig.13A) on the front Bimini frame (bow) (Fig.13B) as high up as possible.

A. Place the locking plate (Fig.13C) as far forward on the top rail as possible without interfering with any obstructions on the boat, i.e. doors, furniture, or until the front sport arm is straight up and down (vertical) and perpendicular (Fig.13D) to the top rail of the boat.

NOTE: If the front support (Fig.13D) cannot be perpendicular to the top rail, then the hinge plate (Fig.13C) should be forward of the H-bracket (Fig.13A) and not behind it.

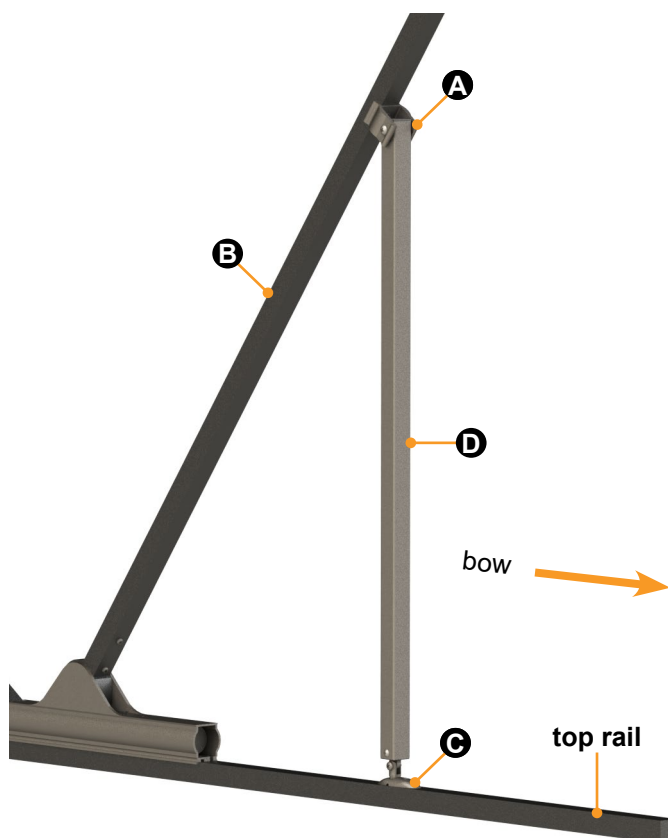


Fig.13

NOTE: Do not mount the front sport arms too far forward such that the front frame has to be pulled down to get the sport arm to lock into the top mounting plate. These front sport arms are for additional Bimini top support and should be mounted so it is easy to disconnect them from the hinge plate for storing.

B. Using a non-permanent marker, mark the location of the H-bracket on the front frame (Fig.14).

NOTE: White lines indicate where marking on an object with a permanent or non-permanent marking method is required.

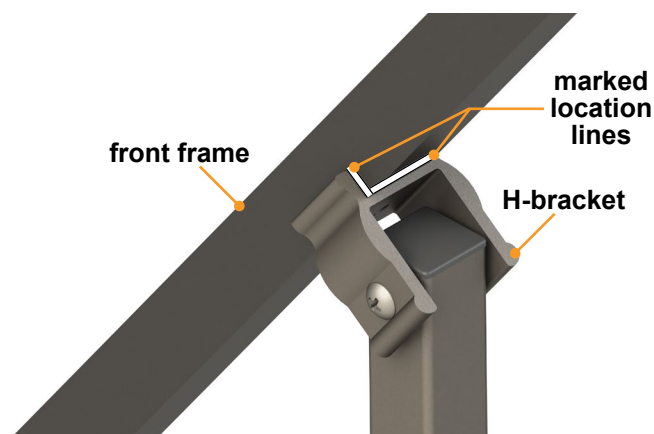


Fig.14

C. Using a non-permanent marker, mark the location of the locking plate on the top rail of the boat (Fig.15).

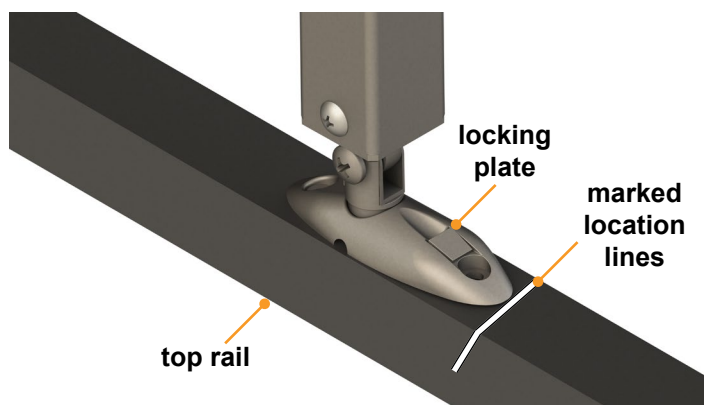


Fig.15

7. Use two Phillips screwdrivers, one to hold the barrel nut in place (Fig.16A) and the other screwdriver to remove the barrel bolt (Fig.16B).

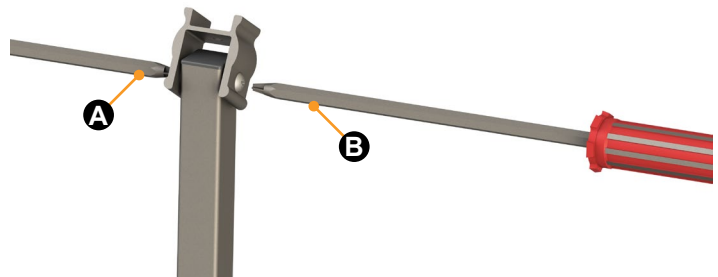


Fig.16

8. Remove the H-bracket from the front sport arm and place it at the marked location on the front frame.

9. Using an electric or cordless drill or screw gun and a $\frac{3}{8}$ " hex drive socket, attach the H-bracket with the $\frac{1}{4}$ " - 14 x $\frac{3}{4}$ " hex washer head self-drilling screw (Fig.17A) through the center hole of the H-bracket.

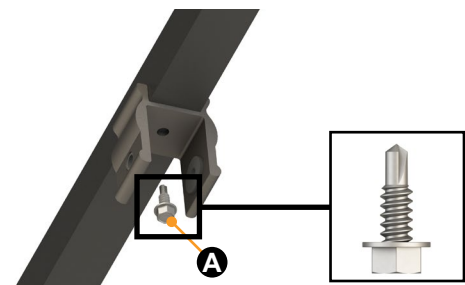


Fig.17

10. Insert the front sport arm into the H-bracket and align the bracket holes with the front sport arm holes.

11. Use two Phillips screwdrivers, one to hold the barrel nut in place and the other screwdriver to tighten the pivot screw. See figure 16.

NOTE: The locking plate in the following step **MUST** be installed with the slide lock facing the front (bow) of the boat.

12. Position the locking plate (Fig.18) where previously located in step 6.C.

13. Using an electric or cordless drill or screw gun and Phillips head drive bit, insert a $\frac{3}{16}$ " self-drilling Phillips head screw (Fig.18A) in the front hole of the locking plate (Fig.18B) to attach it to the top rail.

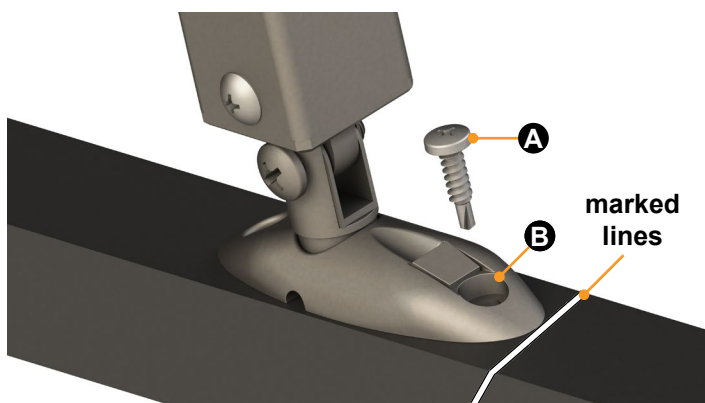


Fig.18

14. Remove the swivel locking stud from the locking plate (Fig.19), then insert the mounting screw in the rear hole of the locking plate to attach it to the top rail (Fig.20A).

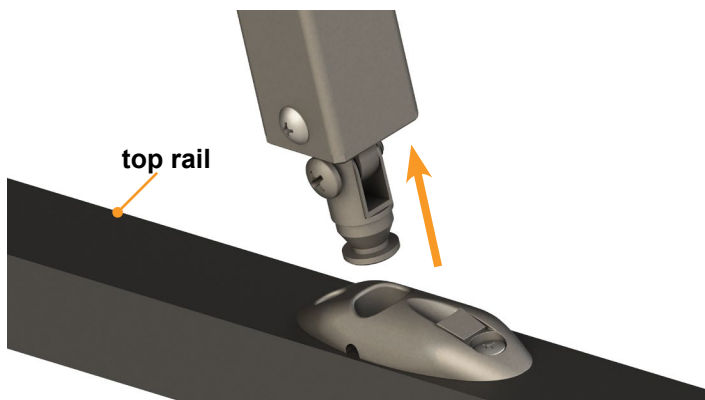


Fig.19

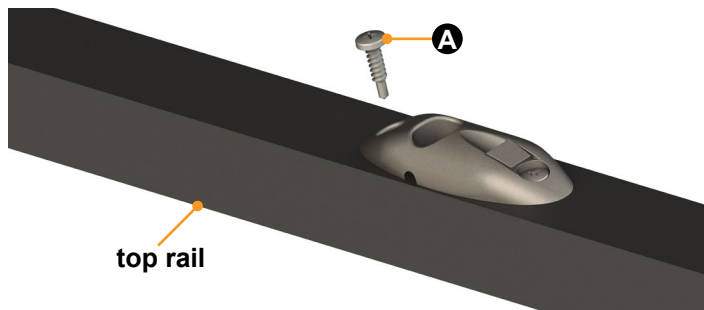


Fig.20

15. Take the location measurements for the H-bracket and locking plate from this front sport arm installation and repeat steps 6.B. and C. - 14 to install the second front sport arm.

Installation of the EZ Clip

1. Using a tape measure, start at the H-bracket and measure down along the face of the front frame—of the previously installed H-brackets—to a distance no less than 2" from the bracket to no more than half-way down the front frame (Fig.21).

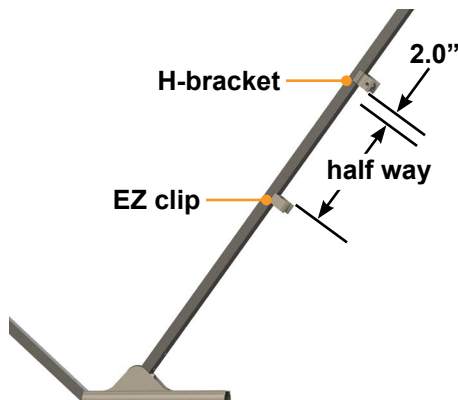


Fig.21

2. Mark the location with a non-permanent marker.
3. Position the EZ Clip at the mark made in step 1.

4. Using an electric or cordless drill or screw gun and a Phillips head drive bit, insert the $\frac{3}{16}$ " self-drilling screw (Fig.22A) through the EZ Clip's center hole and tighten.

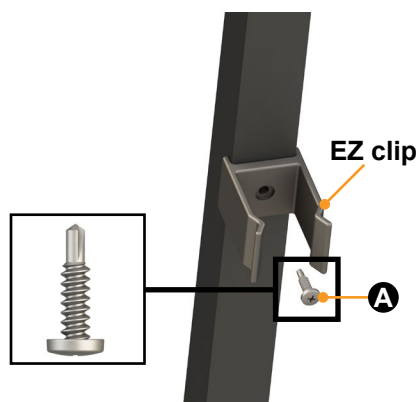


Fig.22

5. Repeat steps 1-3 on the second front frame.

Operation

⚠ 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.

Extend the Front Sport Arms

To extend the front sport arms, do as follows:

⚠ WARNING

MAXIMUM SPEED RATING WITH FRONT SPORT ARMS IN USE IS 45 MPH.

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

1. Fully open the Power Bimini top until the auto-reset breaker trips.
2. Pull the front sport arm out of its EZ Clip.
3. Position the swivel barrel over the hinge assembly.

4. Slide and hold the locking button down, then insert the swivel barrel. See figure 12.

5. Release the locking button.

⚠ 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.

Retract the Front Sport Arms

To retract the front sport arms, do as follows:

1. Slide and hold the hinge assembly's locking button down, then pull the swivel barrel out of the locking plate. See figure 19.
2. Release the locking button.
3. Push the front sport arm into its EZ Clip (Fig.23).

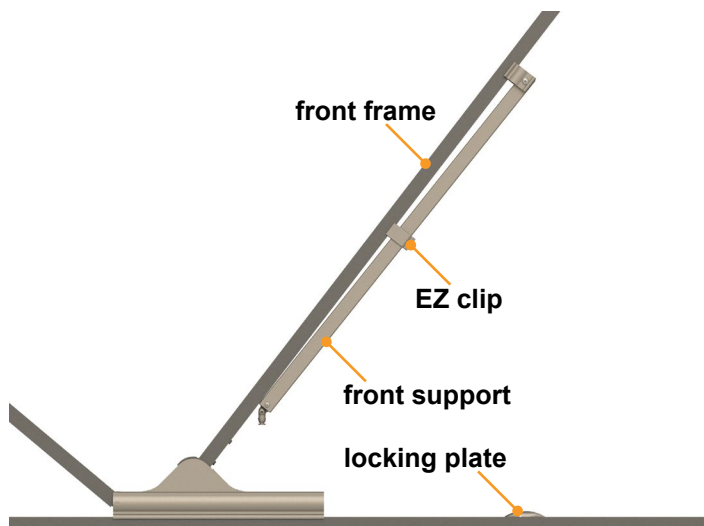


Fig.23

Troubleshooting

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 sport arm does not stay secured.	Damaged or worn EZ Clip.	Replace EZ Clip.
Front sport 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.	Make sure Bimini top is fully open then follow installation instructions to reinstall the H-bracket and hinge assembly.

Maintenance

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

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

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

Notes



LIPPERT
COMPONENTS®

Manual information may be distributed as a complete document only, unless Lippert Components provides explicit consent to distribute individual parts.

All manual information is subject to change without notice. Revised editions will be available for free download at lci1.com. Manual information is considered factual until made obsolete by a revised version.

Please recycle all obsolete materials and contact Lippert Components with concerns or questions.



This manual is provided courtesy of **RV Tech Cheat Sheet**



Professional resources for the whole RV industry — free.

We put manuals, wiring diagrams and hard-won tech knowledge in every technician's hands, so repairs get done right the first time, techs work faster, and RV owners everywhere get better service.



rvtechcheatsheet.com/manuals

Find thousands more RV manuals, wiring diagrams and parts lists

RV techs: share fixes, ask questions and learn from each other.

Join our free Facebook group →



Follow proper safety practices. If in doubt, consult a professional RV technician.