LIPPERT

Solid Step®

# SolidStep® 3.0

## Premium Step

## Installation and Owner's Manual

**(For Aftermarket Applications)**

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| Tread Count | Floor Height | Measured Door Width* | Part # | SolidStep | Door Width Shown on Factory Label Sticker |
|---|---|---|---|---|---|
| Double | 22"-28" | 25" - 28.9" | 733931 | 26" Premium Double SolidStep® | 26" - 29" |
| | | 29" - 35.5" | 733932 | 30" Premium Double SolidStep® | 30" - 36" |
| Triple | 27"-36" | 25" - 28.9" | 791572 | 26" Premium Triple SolidStep® | 26" - 29" |
| | | 29" - 35.5" | 791573 | 30" Premium Triple SolidStep® | 30" - 36" |
| Quad | 35"-44" | 25" - 28.9" | 791574 | 26" Premium Quad SolidStep® | 26" - 29" |
| | | 29" - 35.5" | 791575 | 30" Premium Quad SolidStep® | 30" - 36" |

*See Purchase Verification section to determine SolidStep® size required.

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## Purchase Verification

XX" - To verify the proper size of the SolidStep® required, measure frame to frame **(Fig.1)** of the trailer door. This number should correspond to the SolidStep® purchased. For example, a 30" door will measure approximately 29 ½" frame to frame.

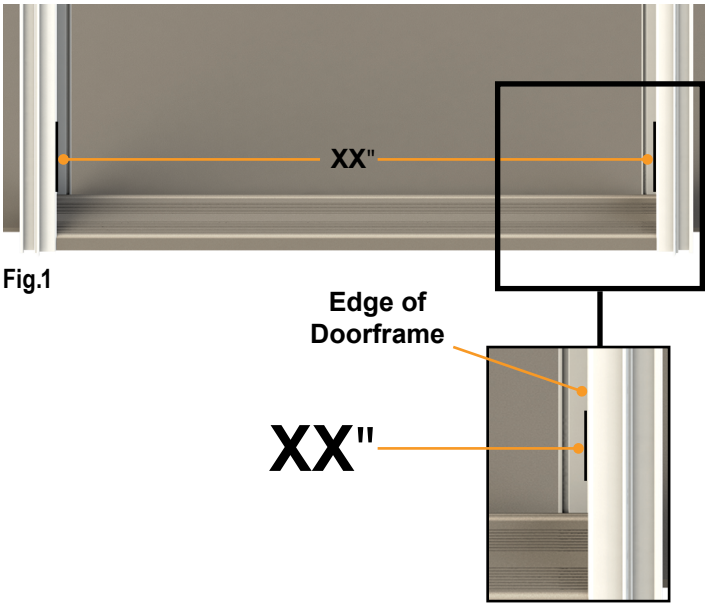


Fig.1

## Introduction

The SolidStep® 3.0 is a trailer entry step assembly that can be mounted to the side of any trailer, providing an ease of entry, regardless of level ground.

**NOTE:** Revisions in this document apply to product from May, 2019 through current.

Additional information about this product can be obtained from lci1.com/support or by using the LippertNOW app. Replacement kits can be ordered from https://store.lci1.com/ or by using the LippertNOW app.
The LippertNOW app is available for free on Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users.

App Store® 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, scan this QR code or go to: https://support.lci1.com/solera-3000-series-12v-power-awning

## Safety Information

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 SAFETY RISK IS INVOLVED AND MAY CAUSE DEATH, SERIOUS PERSONAL INJURY AND/OR SEVERE PRODUCT OR PROPERTY DAMAGE IF NOT SAFELY ADHERED TO AND WITHIN THE PARAMETERS SET FORTH IN THIS MANUAL.**

**⚠WARNING**

**FAILURE TO FOLLOW THE INSTRUCTIONS PROVIDED IN THIS MANUAL MAY RESULT IN DEATH, SERIOUS INJURY, TRAILER DAMAGE OR VOIDING OF THE PRODUCT WARRANTY.**

**⚠WARNING**

**ALWAYS WEAR EYE PROTECTION WHEN PERFORMING SERVICE OR MAINTENANCE TO THE TRAILER. OTHER SAFETY EQUIPMENT TO CONSIDER WOULD BE HEARING PROTECTION, GLOVES AND POSSIBLY A FULL FACE SHIELD, DEPENDING ON THE NATURE OF THE SERVICE.**

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**⚠ 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**

**THE DEPLOYMENT AND RETRACTION OF THE STEP ASSEMBLY CAN CAUSE INJURY IF PROPER PRECAUTIONS ARE NOT TAKEN. THE STEP ASSEMBLY WAS DESIGNED FOR AN OPERATIONAL WEIGHT RATING OF 400 LBS.**

**⚠ CAUTION**

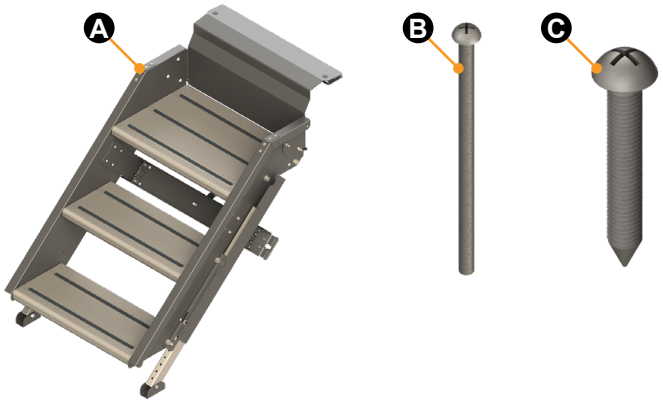
**MOVING PARTS CAN PINCH, CRUSH OR CUT. KEEP CLEAR AND USE CAUTION.**

## Resources Required

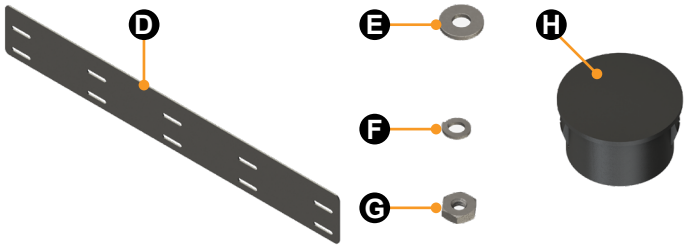
- 1 to 2 People, depending on task
- Cordless or Electric Drill or Screw Gun
- Appropriate Drive Bit
- Drill Bit 5⁄32" (for #10 wood screws)
- Drill Bit 13⁄64" (for #10 bolts)
- Tape Measure

## 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.




**NOTE:** Triple SolidStep® shown for reference only.




| Letter | PN | Description | Qty |
|---|---|---|---|
| A | Varies | SolidStep® Reference Only | 1 |
| B | 702570 | Bolt, #10 - 24 x 4" | 10 |
| C | 723225 | Screw, #10 - 13 x 1 1/4" Phillips | 10 |
| D | 433704 | Backer Plate, 21" x 2 5/8" | 1 |
| E | 231161 | Washer, #10 | 10 |
| F | 383612 | Lock Washer, #10 x .34 | 10 |
| G | 383610 | Nut, #10 - 24 | 10 |
| H | 433786 | Hole Plug, 5/8" | 2 |

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# Prior to Installation

**1.** Make sure that the trailer is on level ground.

**2.** If the trailer floor has a step threshold transition piece, it should be removed now.

**NOTE:** There must be a ⅜" gap from the bottom of the entry and screen doors to the top of the threshold to allow room for the hinge plate. Without this clearance, the doors will not have sufficient room to close when the steps are extended.

**NOTE:** The door and frame have been omitted from figures for clarity.

**3.** Make sure the floor of the trailer has sufficient backing material for securing the SolidStep®. If uncertain, check with the trailer's manufacturer for backing material and its location or use the backer plate and fasteners provided.

# Installation

### Place Assembly Inside Doorframe

**1.** With the step extended and in the down position, place the SolidStep® assembly inside the doorframe **(Fig.2)**.

**NOTE:** Before installing any fasteners, make sure that the step is properly leveled so the threshold of the step rests firmly on top and in front of the aluminum doorframe threshold, without any gap between them. The rear of the step wall **(Fig.2C)** should be approximately parallel with the trailer's sidewall in this position. Refer to Leg Extension Adjustment section.

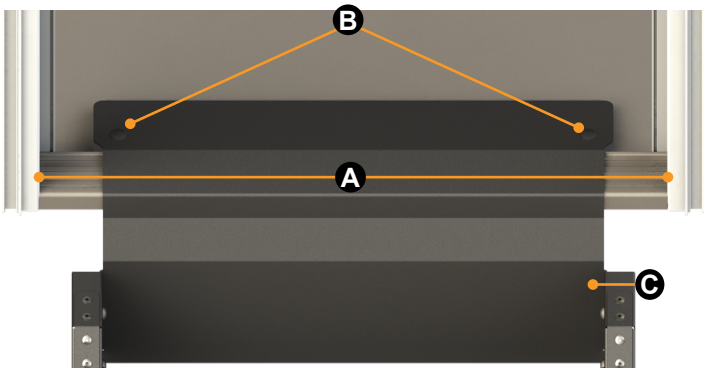


**Fig.2**

**2.** Verify with a tape measure that the assembly is centered in the doorframe. Measure from frame to frame **(Fig.2A)**.

**3.** With the step assembly still in the extended position, install two fasteners.

**NOTE:** Most trailers use flooring construction that is sufficiently strong to support a SolidStep® with a simple wood screw installation. Generally, if the flooring contains a wood subfloor thickness of at least ½", method **A** may be used. If unsure of your subfloor thickness, or are otherwise aware that the floor has a foam-laminated core construction and only a thin wood subfloor (sometimes used for weight savings), then method **B** should be used. This optional installation method connects the SolidStep® hinge plate to a strong steel backing plate which gets placed underneath the floor, to ensure maximum floor support.

**A.** For wood flooring, drill pilot hole using the 5⁄32" drill bit and install two #10-1 ½" wood screws into the mounting plate via the two access holes located in the top of the mounting plate **(Fig.2B)**.

**B.** For laminate flooring, drill two holes straight down with the 13⁄64" drill bit via the access holes located in the top of the mounting plate. Insert two #10-4" bolts into the mounting plate through the floor through the backer plate **(Fig.2B)** and secure with the plain washers, lock washers and then the nuts provided. Refer to Figure 6 and Figure 7 for backer plate info.

**4.** Once the two fasteners are secure, carefully lift the step assembly into the upright, stored position. If the latching mechanism doesn't engage, it will need to be adjusted to operate properly. Have one person hold the step assembly from inside the trailer. Go to Adjust Transport Lock section.

## ⚠ CAUTION

**DO NOT ATTEMPT TO LOCK THE STEP IN PLACE, AS THE LATCHING MECHANISM MAY NEED TO BE ADJUSTED TO THE PROPER LEFT-RIGHT ORIENTATION AND TIGHTENED IN POSITION BEFORE USING THE TRANSPORT LOCK. ATTEMPTING TO ENGAGE THE TRANSPORT LOCK WITHOUT PROPER ADJUSTMENT MAY CAUSE DAMAGE TO THE DOORFRAME OR STEP ASSEMBLY.**

### Adjust Transport Lock

**1.** If adjustment is required, loosen the 3 bolts **(Fig.3A)** on either side of the adjustable transport lock. This allows adjustment side-to-side in the latch mechanism.

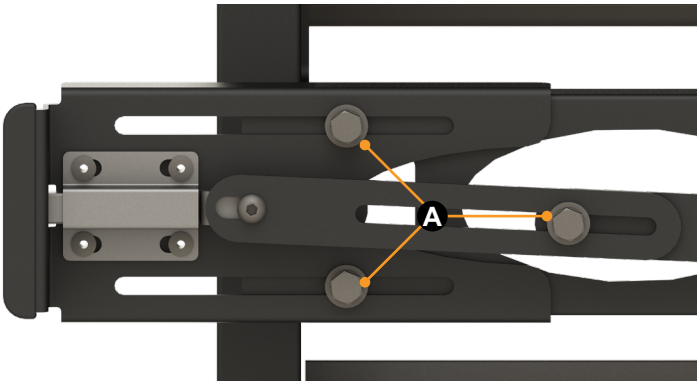


**Fig.3**

## ⚠ CAUTION

**DO NOT OVERTIGHTEN THE BOLTS. OVERTIGHTENING THE BOLTS MAY DAMAGE THE THREADS OR CAUSE THE BOLT HEADS TO BREAK OFF.**

**2.** Once the latch mechanism is in the correct position, tighten the bolts.

**3.** Once the transport lock has been adjusted, test its functionality by shaking the step assembly to simulate road vibration.

**4.** Engage and disengage the transport lock **(Fig.4A)** to ensure the latch flanges do not scrape against the doorframe.

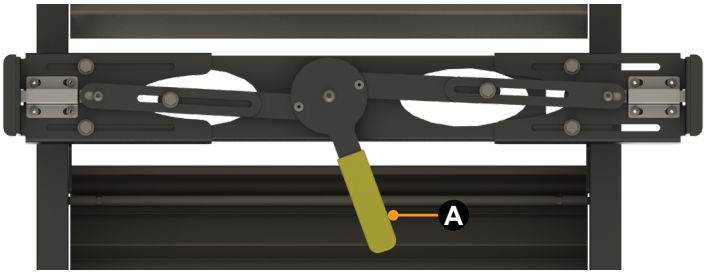


**Fig.4**

## Secure Hinge Plate

**1.** After adjusting the transport lock and with the step assembly in the upright, stored position, secure the slots of the hinge plate to the floor of the trailer using the additional fasteners provided.

**A.** For wood flooring, drill pilot holes using the 5⁄32" drill bit and install eight #10 - 13 x 1 ¼" wood screws **(Fig.5B)** into the mounting plate via the eight remaining access holes located on the hinge plate **(Fig.5A)**.

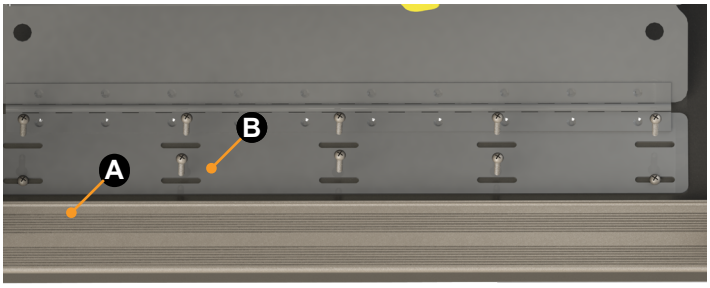


**Fig.5**

**B.** For laminate flooring, drill eight holes straight down with the 13⁄64" drill bit via the eight remaining access holes located in the top of the hinge plate **(Fig.6A)**. Insert eight #10 - 24 x 4" bolts **(Fig.6B)** into the hinge plate through the floor, through the backer plate **(Fig.7D)** and secure with #10 washers **(Fig.7A)** #10 lock washers **(Fig.7B)** and #10 - 24 nuts **(Fig.7C)**.

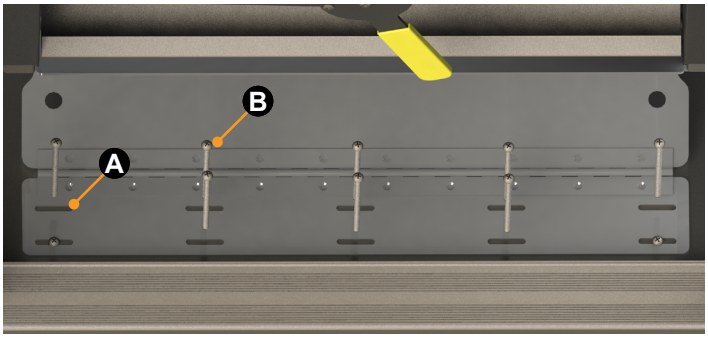


**Fig.6**

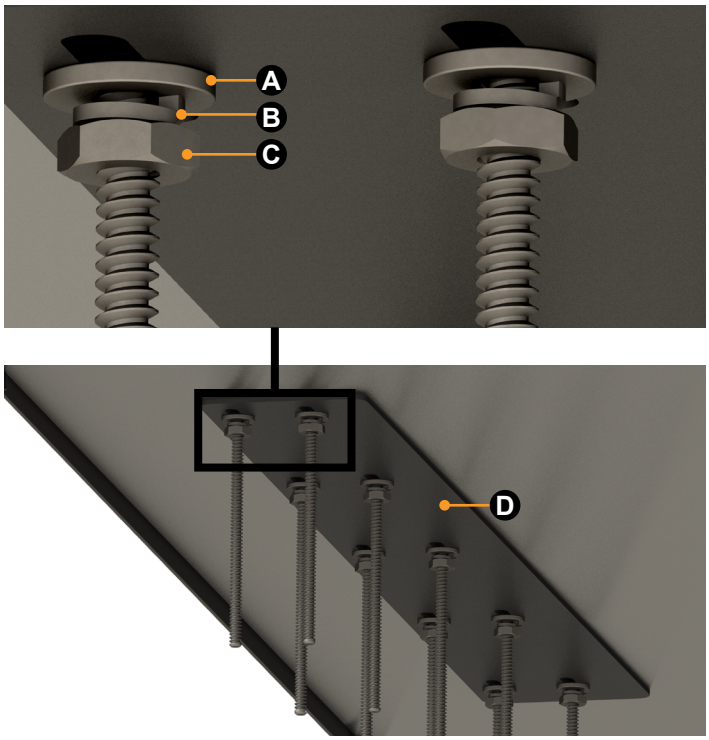


**Fig.7**

**2.** If necessary, use the horizontal slots **(Fig.6A)** to make additional small adjustments to the step assembly positioning in the doorway.

**3.** If a backer plate is being used, apply silicone sealant around the holes.

**4.** Extend the step assembly.

**5.** Insert the two provided caps to cover the access holes in the mounting plate **(Fig.2B)**.

# Operation

### Extend Steps

**1.** Disengage transport lock.

**2.** Firmly grasp and pull out the vertically stored SolidStep® and firmly rest it on the ground.

### Storage of Steps

**1.** Lift up SolidStep® to its stored position and make sure the transport lock has been engaged.

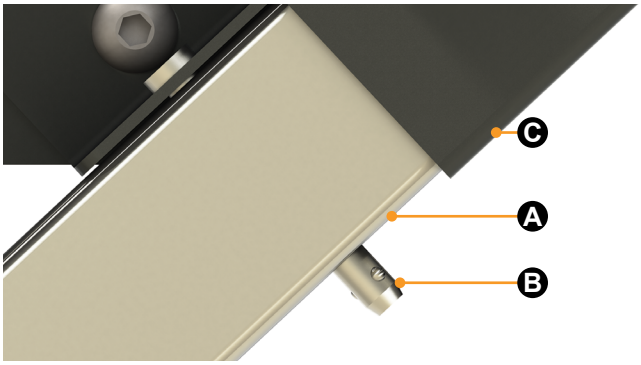


**Fig.8**

### Leg Extension Adjustment

The leg extension is secured with a quick release clevis pin. Adjustments can be made to the leg extensions in 1" increments by extending or retracting the inner leg for the optimal angle, and to adjust for the ground surface angle.

**1.** To extend the inner leg **(Fig.8A)**:

**A.** Remove the quick release clevis pin **(Fig.8B)** from the tube and the slot in the angle.

**B.** Extend the inner leg **(Fig.8A)** to the ground and at an angle so the steps are parallel to the ground and level. Reinsert the quick release clevis pin **(Fig.8B)** into the tube and slot closest to where the inner leg and tube **(Fig.8C)** meet.

**2.** To retract the inner leg **(Fig.8A)**:

**A.** Remove the quick release clevis pin **(Fig.8B)** from the tube and slot.

**B.** Retract the inner leg.

**C.** Reinsert the quick release clevis pin in the tube and slot.

## Notes

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