



SolidStep 4.0

Installation and Owner's Manual

(For Aftermarket Applications)

SolidStep 4.0 Kits

Part #	Description
2024056996	Double Step 26-29" Threshold
2024056997	Double Step 30-36" Threshold

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Introduction

The SolidStep® 4.0 is a trailer entry step assembly that can be mounted to the side of any trailer, providing an easy entry regardless of level ground.

Additional information about this product can be obtained from [lci1.com/support](https://support.lci1.com) 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 additional support on this product, scan this QR code or go to: <https://support.lci1.com/steps-support-solidstep>



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.

SolidStep® Purchase Verification and Requirements

To make sure that the correct size of SolidStep is installed, follow the measurement Instructions before installation.

Measurement Instructions

NOTE: Unit should be leveled on level ground to make sure measurements are as accurate as possible.

1. Measure the height of the door threshold from the inside of the unit (Fig. 1B).

NOTE: If threshold height is NOT between $\frac{5}{8}$ " and $\frac{3}{4}$ ", the door may not close properly and modifications may need to be made.

2. At its base, measure the width of the door frame (Fig. 1A) and round up to the nearest inch (i.e. 26", 28", 30" etc.) This number should correspond to the SolidStep® purchased. Step identification tags are located under one of the step extrusions, typically the top full step.

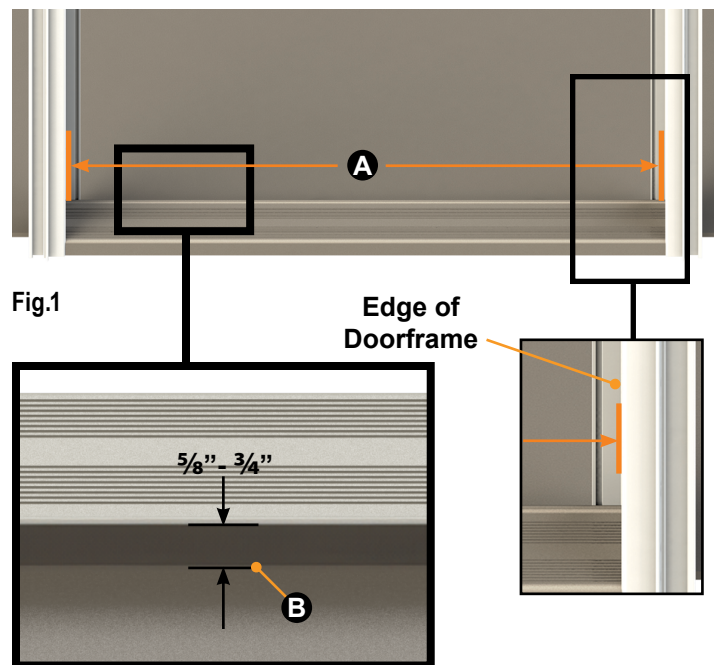


Fig.1

Edge of Doorframe



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 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

DO NOT EXCEED SPECIFIED WEIGHT LIMITS. EXCEEDING WEIGHT LIMITS MAY CAUSE PRODUCT DAMAGE AND/OR 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

THE DEPLOYMENT AND RETRACTION OF THE STEP ASSEMBLY CAN CAUSE INJURY IF PROPER PRECAUTIONS ARE NOT TAKEN.

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 bits
- $\frac{5}{32}$ " drill bit
- $\frac{13}{64}$ " drill bit
- Silicone sealant
- Tape measure

Placing the SolidStep 4.0 Threshold Hinge Plate

1. Remove the threshold hinge plate (Fig. 2A and 3A) from the SolidStep 4.0 by pulling both spring loaded hinge pins (Fig. 2B and 3B) out far enough so that the threshold hinge plate separates from the SolidStep 4.0.

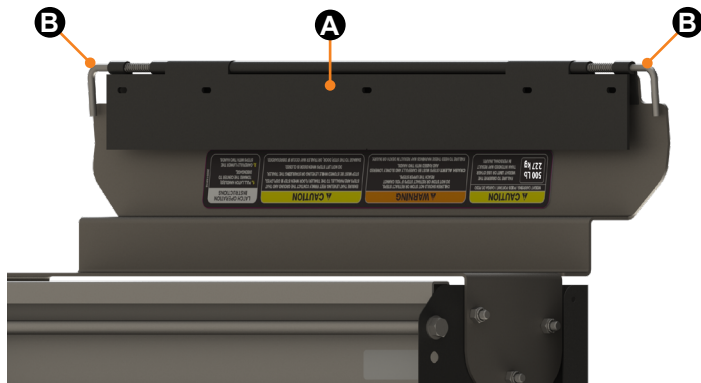


Fig.2



Fig.3

2. Find the notch (Fig. 4B) at the center edge of the threshold hinge plate (Fig. 4A). The notch will be aligned to the center of the door frame threshold or 1" left of center, depending on the door frame inner flange measurement.

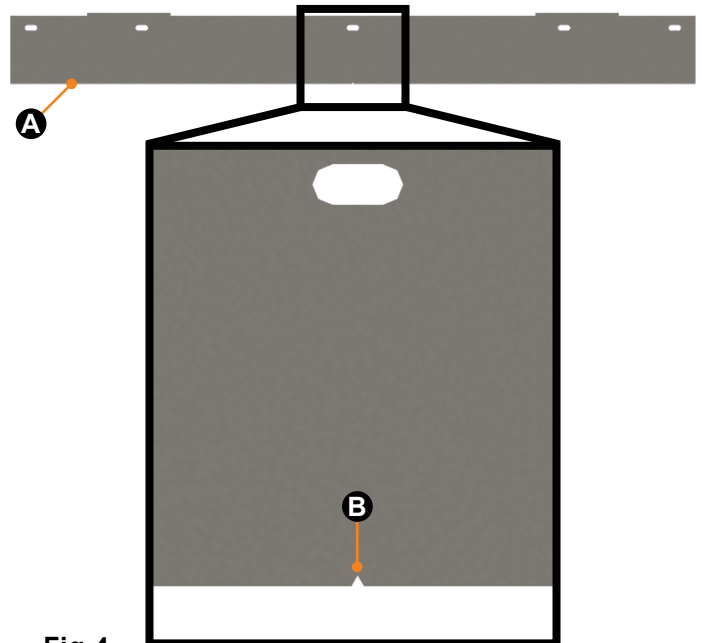


Fig.4

3. Place the threshold hinge plate notched side (Fig. 5A), flush against the door frame threshold (Fig. 5B). Screw holes (Fig. 5C) in the threshold hinge plate will be opposite the door frame threshold.

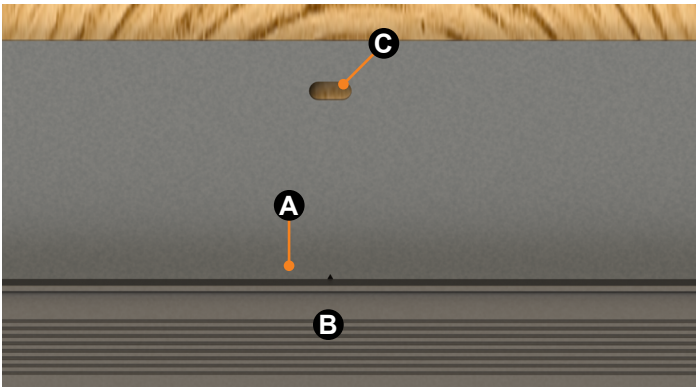


Fig.5

4. Measure the doorframe to find the center (Fig. 6A) and align the threshold hinge plate notch to the center of the door frame.

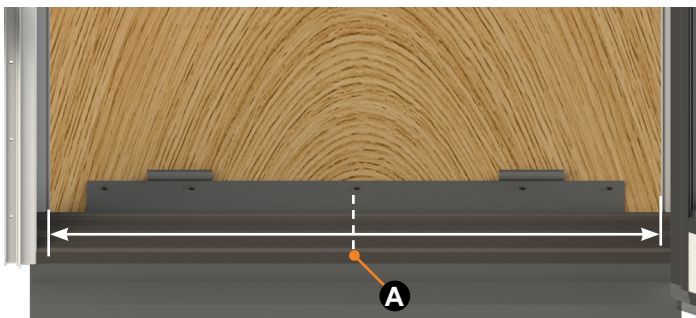


Fig.6

Installation

Securing the SolidStep 4.0 Threshold Hinge Plate

NOTE: Most travel trailers use flooring that is strong enough to support a SolidStep 4.0 with simple wood screw installation. Generally, if the flooring contains a wood subfloor at least 1/2" thick, installation method A may be used.

NOTE: If you are unsure of your subfloor thickness, or your floor has a foam-laminated core construction and only a thin wood subfloor (sometimes used for weight savings) then installation method B should be used. This optional installation method connects the SolidStep 4.0 threshold hinge plate directly to a steel backing plate which is placed on the underside of the unit to ensure maximum floor support.

Installation Method A

1. The threshold hinge plate will be installed to the floor by the screw holes (Fig. 7A). With the threshold plate properly positioned, use these holes to locate the hole centers on the trailer floor, then pre-drill holes with a 5/32" drill bit if necessary.

2. Secure the threshold hinge plate to the floor with the provided #10 wood screws in all hole locations.

NOTE: You may also use a pencil to mark the hole locations through the access holes, and then remove the threshold hinge plate from the door before drilling if desired.

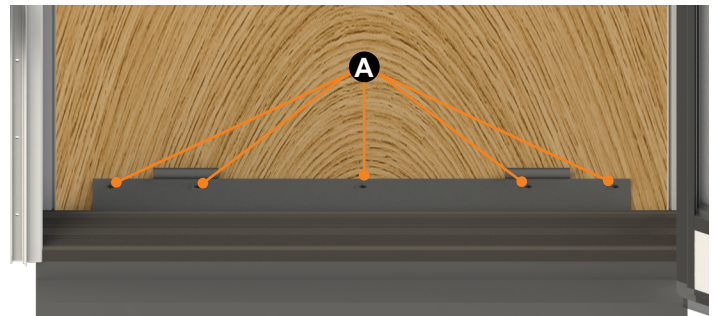


Fig.7

Installation Method B

1. The threshold hinge plate will be installed to the floor by the screw holes (Fig. 8A). With the threshold plate properly positioned, use these holes to locate the hole centers on the trailer floor, then drill holes through the floor with a $\frac{13}{64}$ " drill bit.

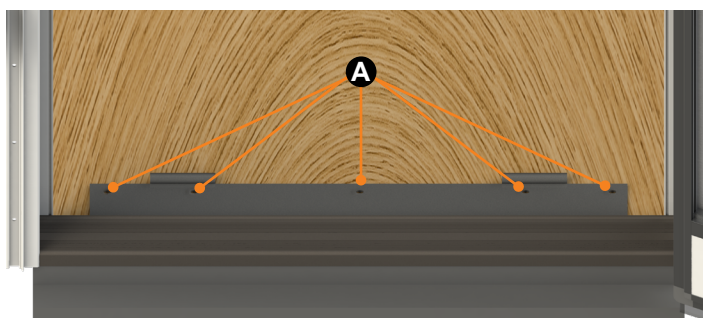


Fig.8

NOTE: You may also use a pencil to mark the drill locations through the access holes, and then remove the threshold hinge plate from the door before drilling if desired.

2. Insert the provided #10 - 24 x 4" bolts through the threshold hinge plate and floor (Fig. 9).

3. On the underside of the unit, place the backer plate (Fig. 10A) onto the bolts and secure with #10 washers (Fig. 10B), #10 lock washers (Fig. 10C) and #10 - 24 nuts (Fig. 10D).

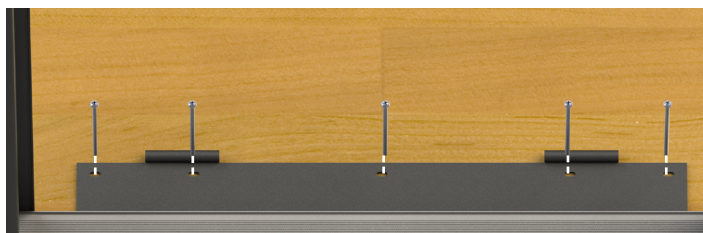


Fig.9

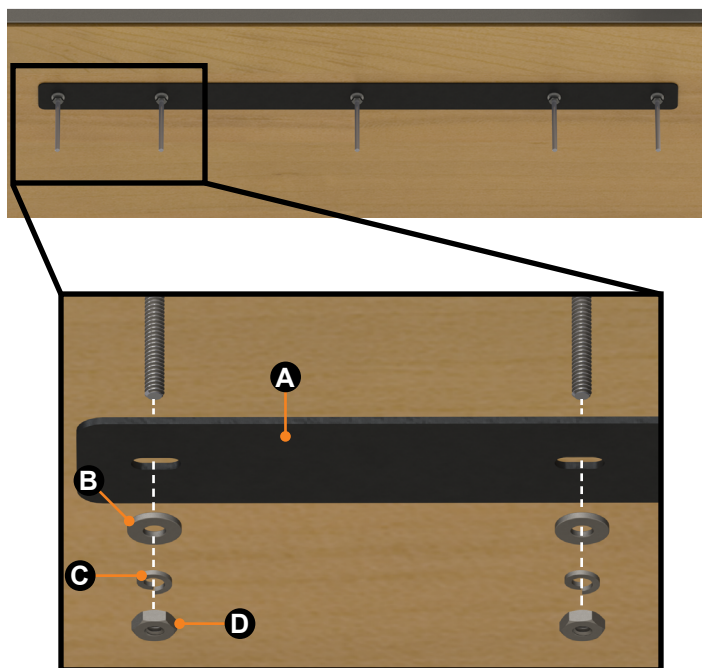
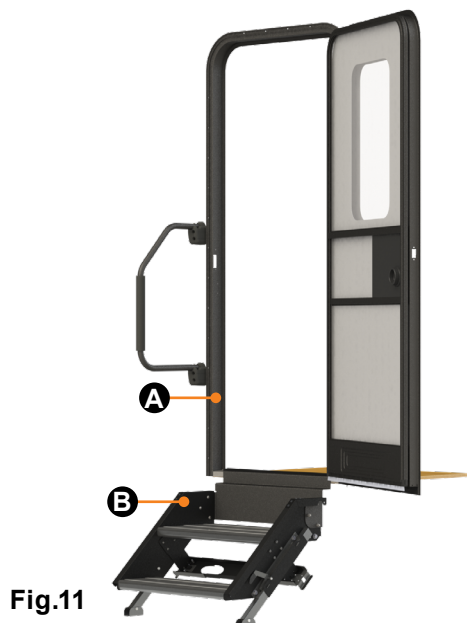


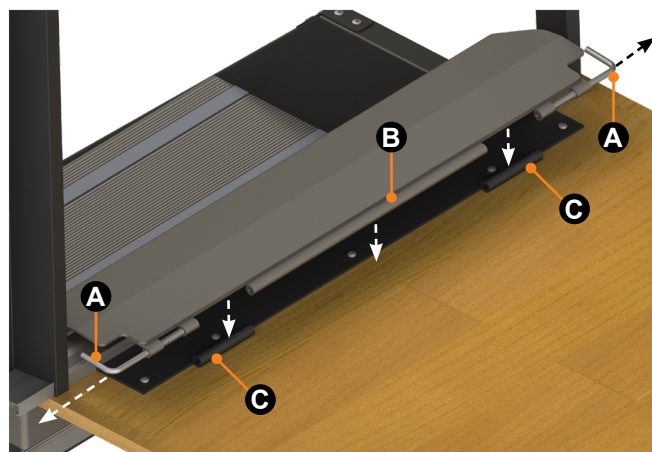
Fig.10

Installing the Step Assembly

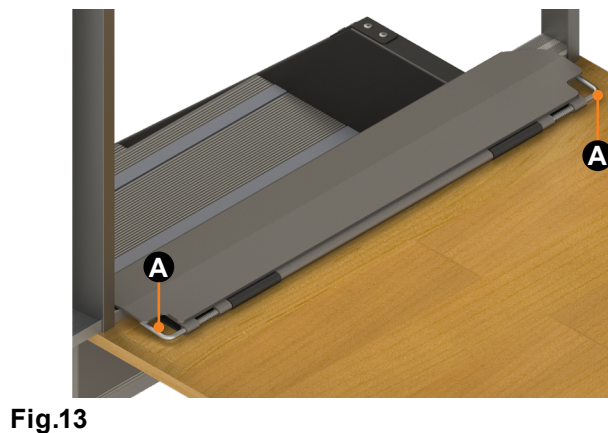
1. Place the step assembly (Fig. 11B) into the door frame (Fig. 11A), in the extended position.



2. Pull the spring loaded hinge pins (Fig. 12A) out and move the step assembly toward the threshold hinge plate and align the center hinge barrel (Fig. 12B) with the threshold hinge plate barrels (Fig. 12C).



3. Release the spring loaded threshold pins (Fig. 13A) so that the step assembly attaches to the threshold hinge plate.



Transport Lock Adjustment

⚠ CAUTION

BEFORE USING THE TRANSPORT LOCK, THE LATCHING MECHANISM MAY NEED TO BE ADJUSTED AND TIGHTENED IN POSITION. ATTEMPTING TO ENGAGE THE TRANSPORT LOCK WITHOUT PROPER ADJUSTMENT MAY CAUSE DAMAGE TO THE DOOR FRAME OR STEP ASSEMBLY.

1. Lift up SolidStep 4.0 to its stowed position (Fig. 14). Make sure transport latch flanges (Figs. 14A, 15A and 16A) are resting against the door frame. If final adjustment is required, loosen the two bolts (Fig. 15B and Fig. 16B) on either side of the adjustable transport lock. This allows for side-to-side adjustment in the latch mechanism.



Fig.14

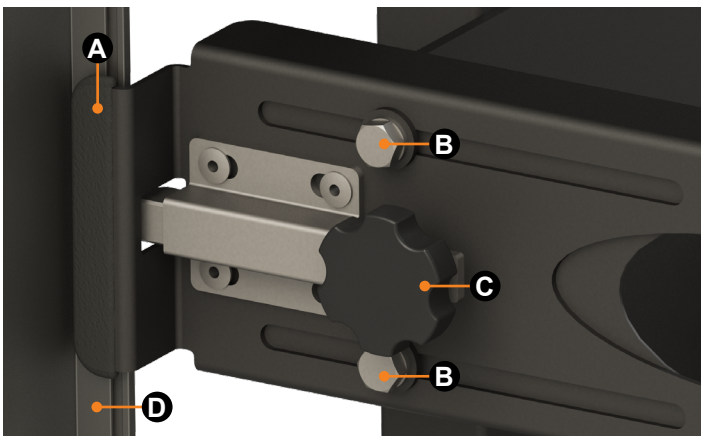


Fig.15

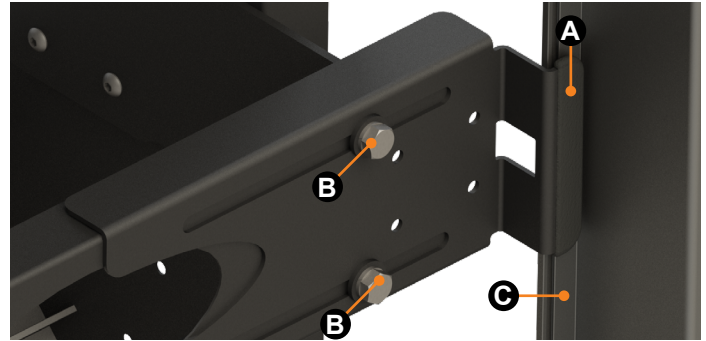


Fig.16

⚠ CAUTION

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

2. Once the transport lock mechanism (Fig. 17A) and the transport latch flanges (Figs. 15A and 16A) are in the correct position, tighten the bolts (Figs. 15B and 16B) with a $\frac{7}{16}$ " wrench or socket.
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. 15C) to ensure the transport latch flanges (Figs. 15A and 16A) do not scrape against the door frame (Figs. 15D and 16C).

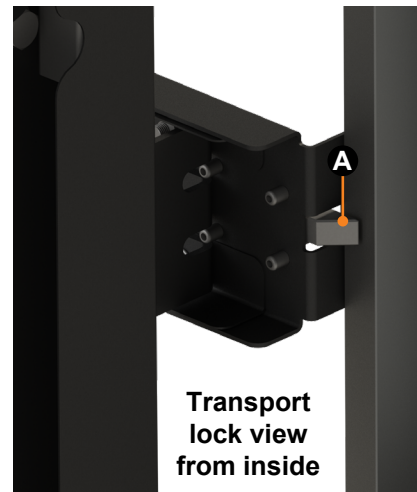


Fig.17



Operation

CAUTION

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

Release Steps

1. From the stowed position (Fig. 18), disengage the transport lock (Fig. 18A) by pulling the transport lock knob to the right.
2. Firmly grasp and pull out the vertically-stowed SolidStep 4.0 and rest the step firmly on the ground.
3. Adjust leg extensions as needed. See Leg Extension Adjustment section.

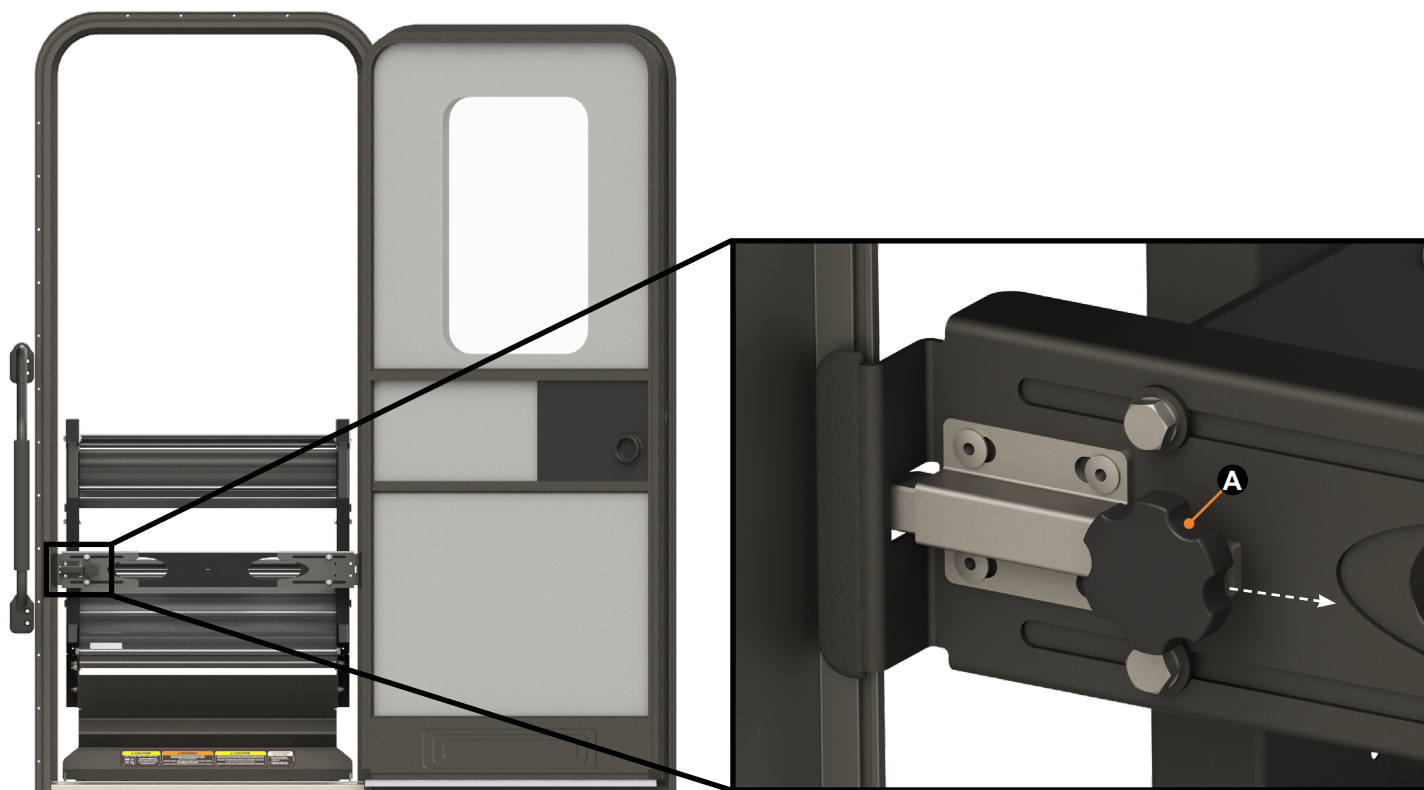


Fig.18

Leg Extension Adjustment

The leg extension is secured with a spring-loaded catch pawl (Fig. 19A). 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. Pull the spring-loaded catch pawl (Fig. 19A) up to release it from the tube and the slot in the angle.
2. Extend or retract the inner leg (Fig. 20A) as needed so the steps are parallel to the ground and level when extended, and unobtrusive while retracted.
3. When the leg is at the desired position, release the spring-loaded catch pawl into the tube and slot closest to where the inner leg and tube meet to lock them (Fig. 21).



Fig.19

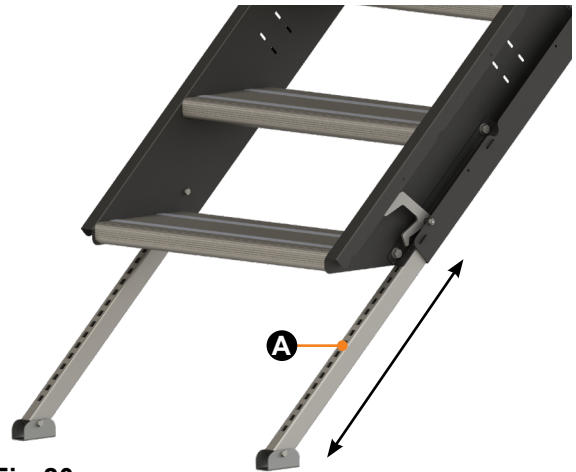


Fig.20



Fig.21

Securing and Storing the Steps

1. Retract leg extensions if necessary. See Leg Extension Adjustment section.
2. Lift up SolidStep 4.0 to its stored position (Fig. 18) until the transport locks engage and click into place.
3. Make sure the latches (Fig. 16A) are resting against the door frame.
4. Once the transport locks have been engaged, test the locking functionality by shaking the step assembly to simulate road vibration, making sure that the SolidStep 4.0 is securely held in the doorframe.

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SolidStep Upgrades

Installation and Owner's Manual

(For Aftermarket Applications)

Notes



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