



SOLIDSTEP® 3.0
EXTENDED THRESHOLD
OEM INSTALLATION MANUAL

L I P P E R T
C O M P O N E N T S®

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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. The suggested floor height range should be between 19"-28" for a double premium two-step tread, 22"-28" for a double economy two-step tread, 27"-36" for a triple three-step tread, 35"-44" for a quad four-step tread.

For information on the assembly or individual components of this product, please visit:
<https://support.lci1.com/steps-support-solidstep>

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.

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

Trailer **MUST** be supported per manufacturer's recommendations before working underneath.
Failure to do so may result in death or 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

No repairs should be attempted by anyone other than a qualified professional. 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

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, crush or cut. Keep clear and use caution.

Resources Required

- Cordless or electric drill or screw gun
- Appropriate drive bit
- Tape measure
- Non-permanent method of marking
- #10 x 1 1/2" wood screws (wood floor)
- #10 x 1 1/2" self-tapping screws (lamineate floor)
- SolidStep extended threshold jig PN 794041 (optional)

NOTE: The Solidstep Extended Threshold Jig Dimensions are 20" x 1 5/16" x 1/4"

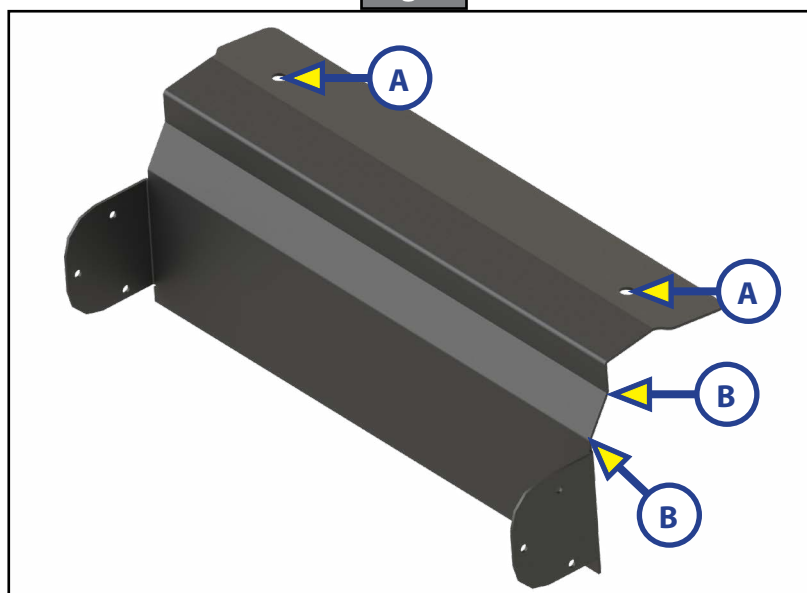
Solid Step 3.0 Threshold Comparison

The threshold of the SolidStep is the formed steel plate that connects to the top of the step. When the step is deployed, this threshold is the part that wraps over the doorway and is connected by a piano hinge.

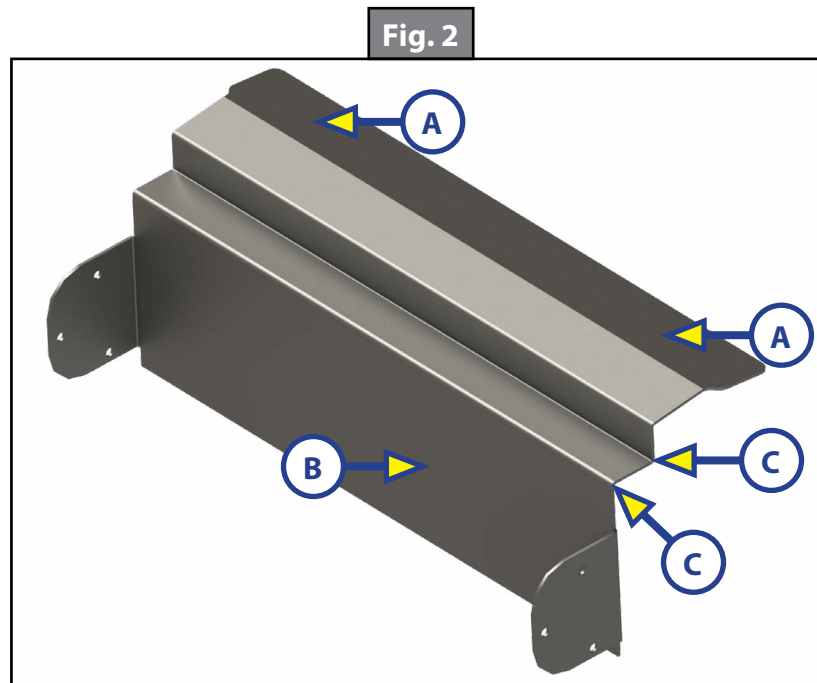
Classic Solid Step 3.0: These steps feature a threshold with two gradual bends of 30 degrees (Fig. 1B), allowing a clearance between the lower pan face and trailer sidewall of less than 1 inch. An easy way to identify these steps is the presence of the two initial fastening holes (Fig. 1A) on the top to aid with the installation process.

Solid Step 3.0 with Extended Threshold: These steps feature a threshold with two 90 degree bends (Fig. 2C), allowing a clearance between the lower pan face (Fig. 2B) and trailer sidewall of 2 inches. These thresholds do **NOT** include the two initial fastening holes (Fig. 2A) on the top of the threshold.

Fig. 1



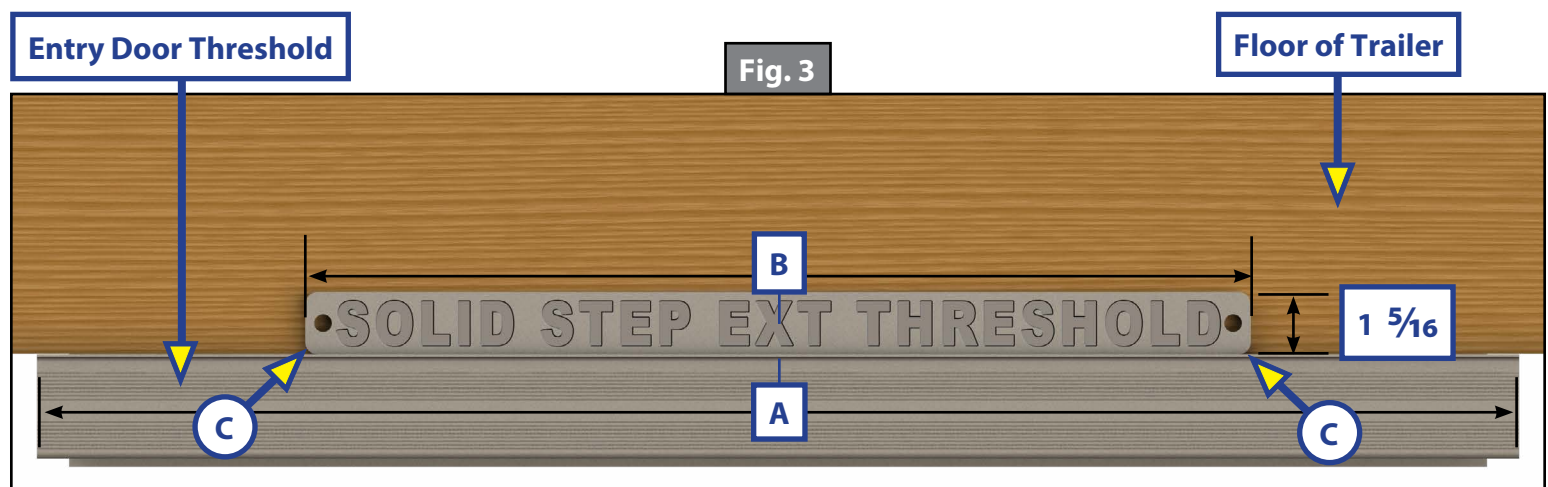
The purpose of the extended threshold is to allow greater clearance between a deployed step and the trailer's sidewall, allowing for more flexibility in choice of OEM install locations for a step. For example, entry doors placed directly over wheel wells often need to avoid interferences with fender skirting, which can sometimes protrude more than 1 inch beyond the trailer sidewall.



Preparation

These instructions will be based on the use of the SolidStep Extension threshold jig. Alternate installation methods are available. The jig is $1 \frac{5}{16}$ " in width and the SolidStep installation should maintain that distance from the threshold to the SolidStep threshold hinge plate (Fig 5A). The Solidstep should also be placed in the center of the entry door.

1. Verify that the trailer is on level ground.
2. Verify the floor of the trailer has sufficient backing material for securing the SolidStep.
3. Measure the width of the entry door threshold and mark the center (Fig. 3A).
4. Measure the width of the Solid Step Extension Threshold jig and mark the center (Fig. 3B).
5. Place the jig on the floor of the trailer. Align the center of the jig (Fig. 3B) with the center of the entry door jamb (Fig. 3A).
6. Make sure the Solid Step Extension Threshold jig is flush to the entry door threshold (Fig. 3C).



Installation

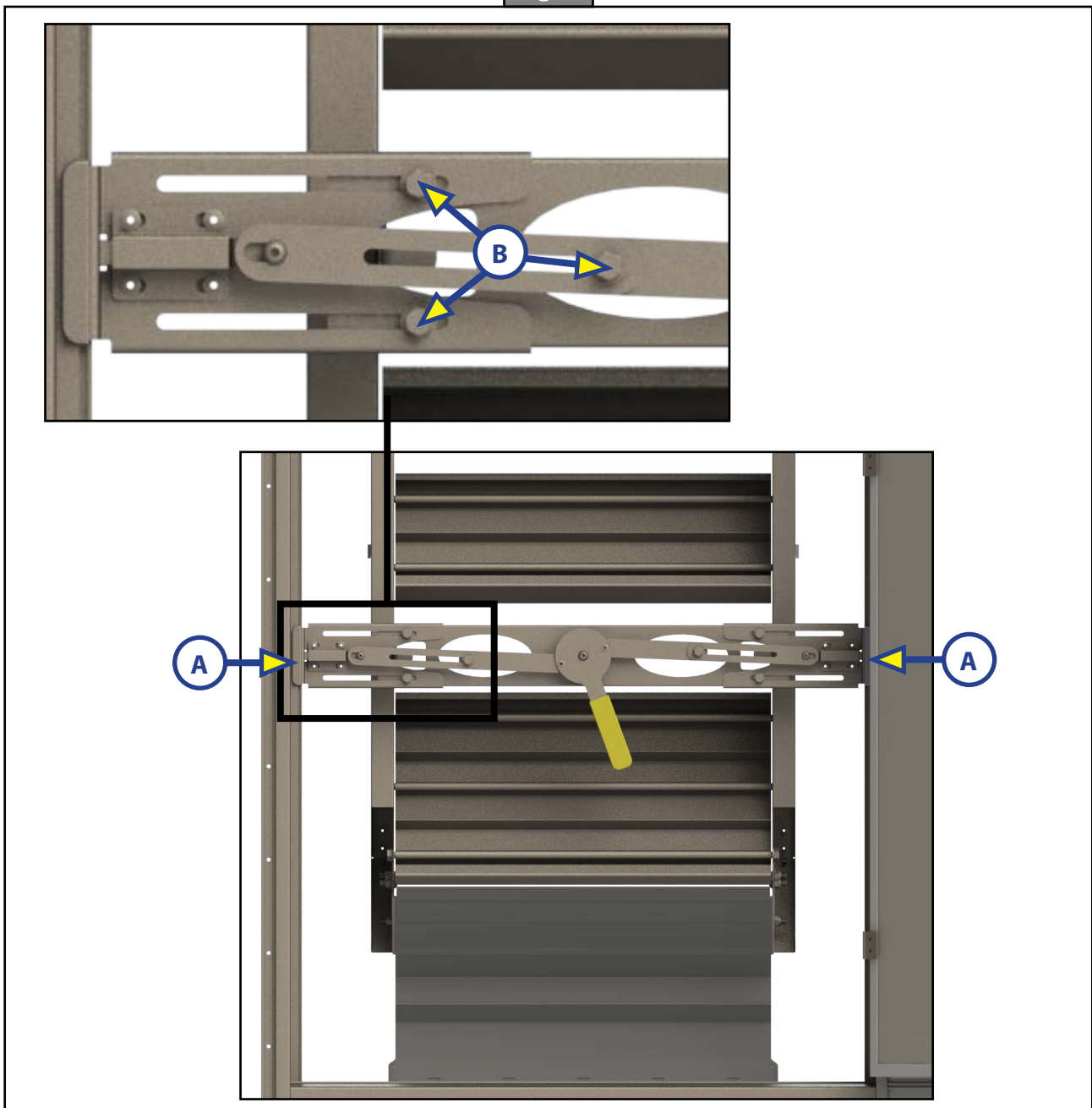
Securing the SolidStep Threshold Hinge Plate

⚠ CAUTION

To hold the SolidStep in place, the transport lock latching mechanism may need to be adjusted to the proper left-right orientation and tightened in position before installing the step. Attempting to install the step without proper adjustment of the transport lock latching mechanism may cause personal injury or property damage.

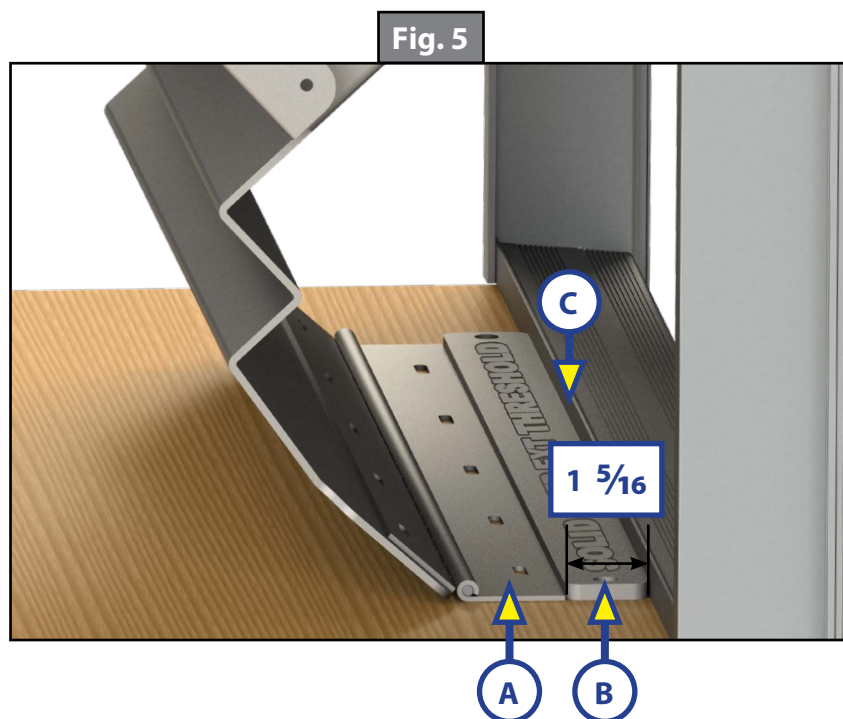
1. Place the SolidStep in the stowed position, inside the doorframe (Fig. 4). The door latches (Fig. 4A) of the step should be loosely adjusted to a holding position before installing the screws into the threshold hinge plate.
2. If adjustment is required, loosen the three bolts (Fig. 4B) on either side of the adjustable transport lock. This allows adjustment side-to-side in the latch mechanism.

Fig. 4

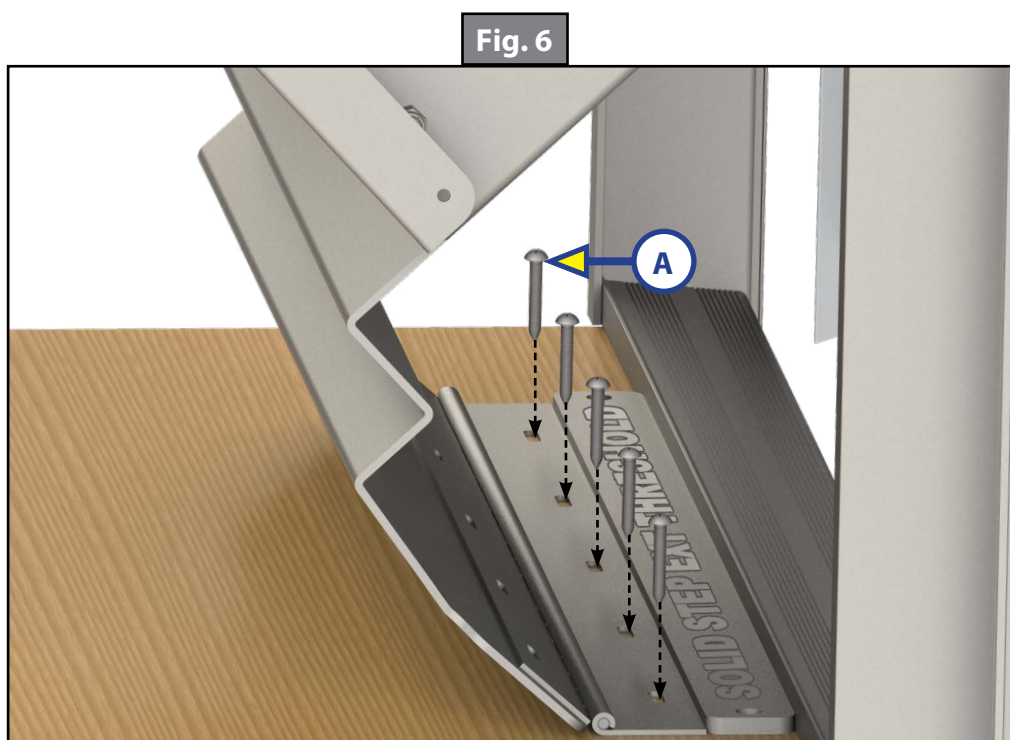


3. Make sure the SolidStep threshold hinge plate (Fig. 5A) is centered and placed firmly against the SolidStep Threshold Extension jig (Fig. 5B). If not positioned flush against the jig, the step assembly could prevent the door from closing.

NOTE: If the SolidStep Extended Threshold jig (Fig. 5B) is **NOT** used, then the step must be placed $1 \frac{5}{16}$ " from the edge of the threshold (Fig. 5C).



4. Verify with a tape measure that the step assembly is centered in the doorframe (Fig. 6).
5. With the step assembly still in the stowed position, install five fasteners (Fig. 6). Use either #10 x $1 \frac{1}{2}$ " wood screws (wood floor) or #10 x $1 \frac{1}{2}$ " self-tapping screws (laminate floor) to secure the mounting plate.



Final Adjustment of Transport Lock

⚠ CAUTION

Prior to using the transport lock, the latching mechanism may need to be adjusted to the proper left-right orientation and tightened in position. Attempting to engage the transport lock without proper adjustment may cause damage to the doorframe or step assembly.

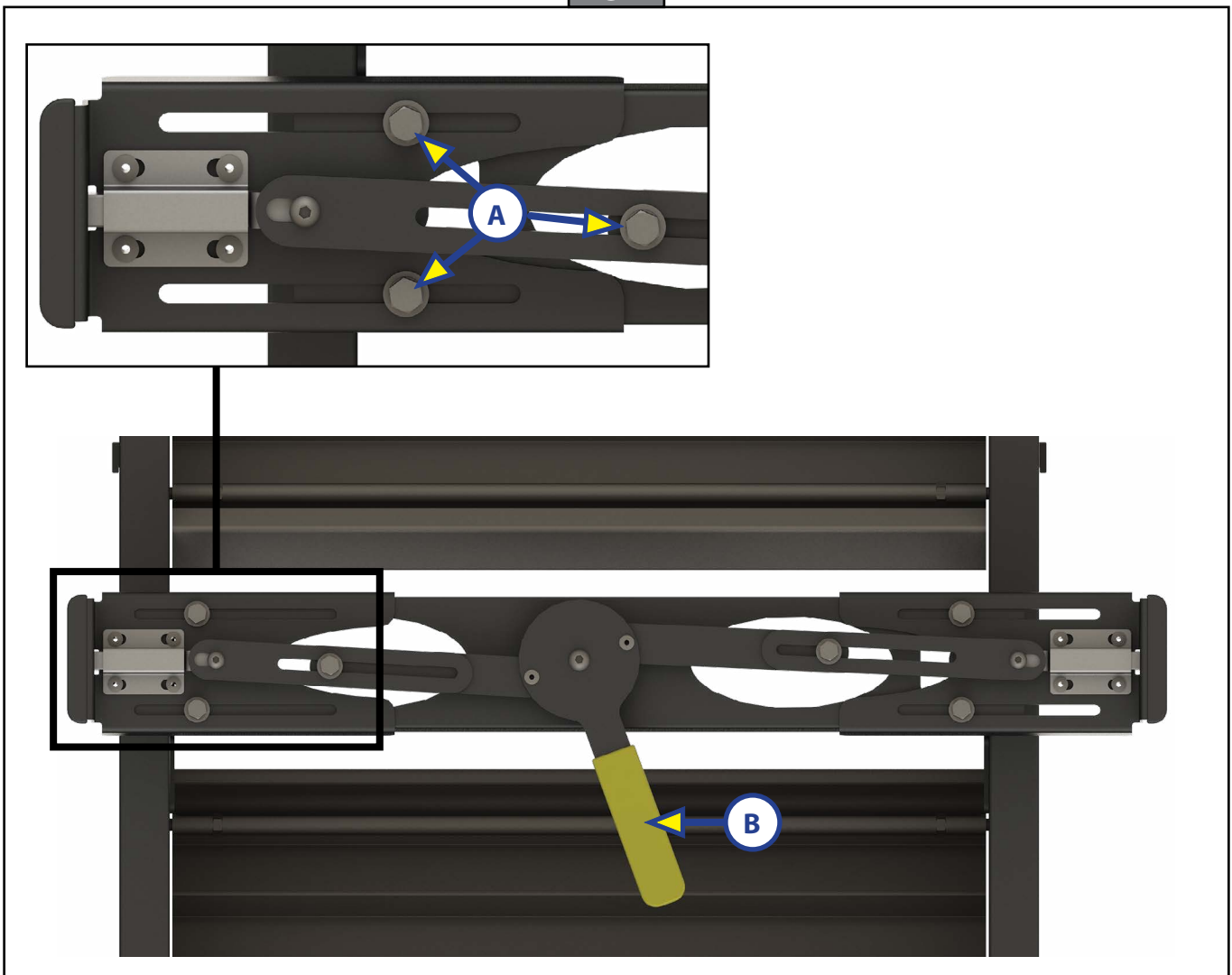
1. If final adjustment is required, loosen the three bolts (Fig. 7A) on either side of the adjustable transport lock. This allows adjustment side-to-side in the latch mechanism.

⚠ 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. 7B) to ensure the latch flanges do not scrape against the doorframe.

Fig. 7



Operation



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

Verify proper SolidStep installation by operating the steps.

Release Steps

1. Disengage transport lock (Fig. 7B).
2. Firmly grasp and pull out the vertically stored SolidStep and rest it firmly on the ground.
3. Adjust leg extensions as needed. See Leg Extension Adjustment section.

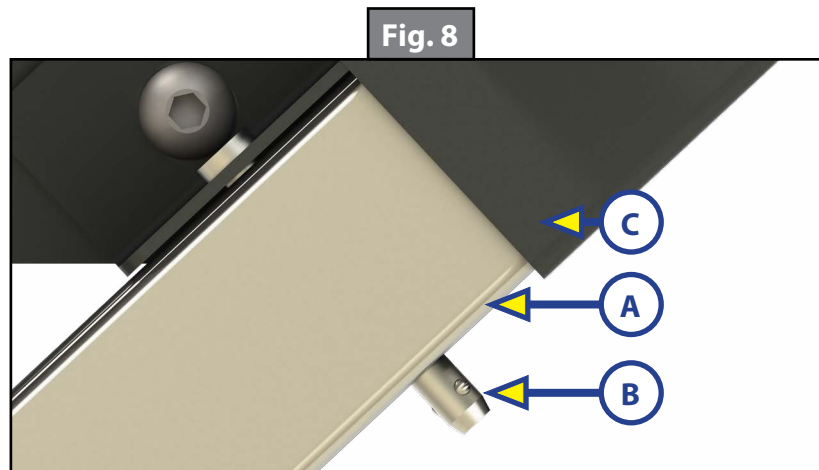
Leg Extension Adjustment

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.
 - C. Reinsert the quick-release clevis pin (Fig. 8A) 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.

Secure Steps

1. Retract leg extensions. See Leg Extension Adjustment section.
2. Lift up SolidStep to its stored position.
3. Engage the transport lock (Fig. 7B).



Notes

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



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