



SOLIDSTEP™ XF
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® XF 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.

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

<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.

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 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

Unit **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.

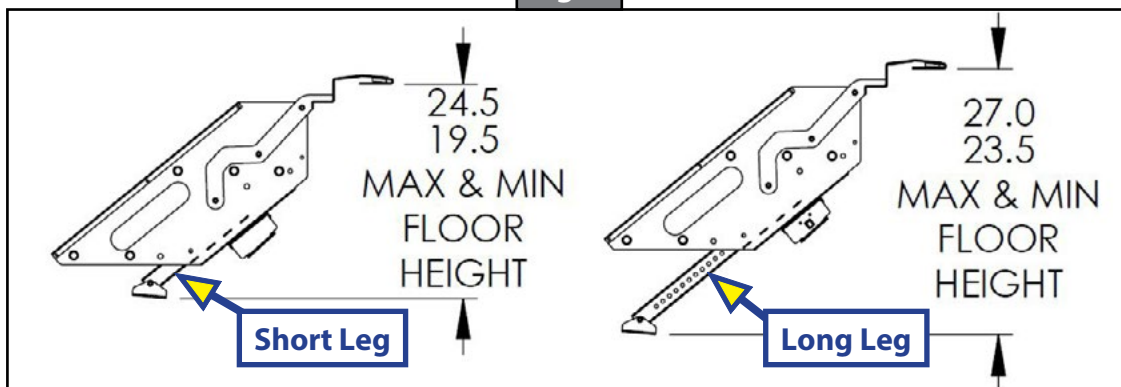
Resources Required

- Cordless or electric drill or screw gun
- Appropriate drive bit
- 7/16" Wrench or socket
- Measuring Tape
- #10 x 1 1/2" wood screws (wood floor)
- #10 x 1 1/2" self-tapping screws (lamineate floor)
- Non -permanent method of marking

SolidStep® XF Floor Height Variations

Figure 1 depicts an example from the chart below of the typical variations for the SolidStep XF step assembly. Make sure the correct SolidStep XF variation is installed for the intended unit by also measuring the door frame threshold. Step identification tags are located under one of the step extrusions, typically the top full step.

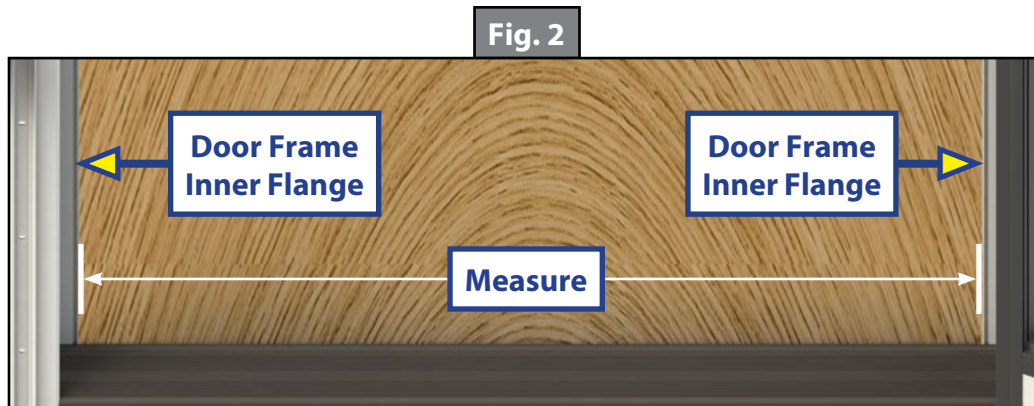
Fig. 1



SolidStep XF Assembly Steps	Maximum to Minimum Floor Height	Leg Height
Double Step 7.5" Rise	24.5" Maximum to 19.5" Minimum Floor Height	Short Leg
Double Step 7.5" Rise	27" Maximum to 23.5" Minimum Floor Height	Long Leg
Double Step 9" Rise	28" Maximum to 22.5" Minimum Floor Height	Short Leg
Double Step 9" Rise	31.5" Maximum to 28" Minimum Floor Height	Long Leg
Triple Step 7.5" Rise	35" Maximum to 26" Minimum Floor Height	Long Leg
Triple Step 9" Rise	40.5" Maximum to 30.5" Minimum Floor Height	Long Leg
Quad Step 8" Rise	45" Maximum to 35.5" Minimum Floor Height	Long Leg

Pre-Installation

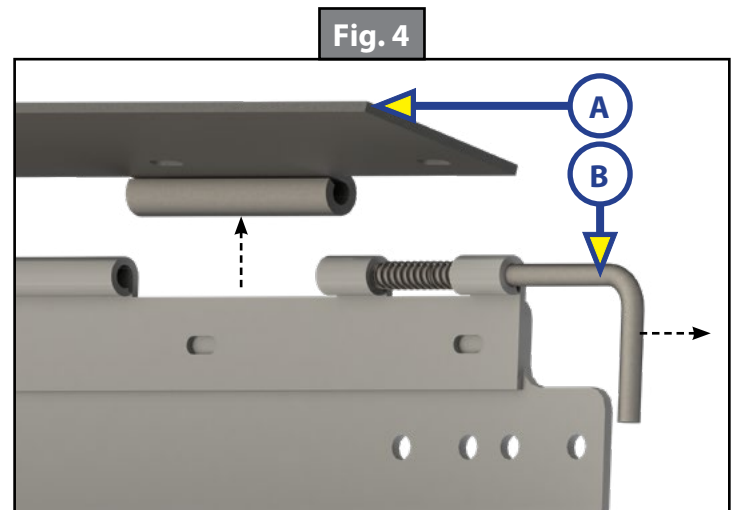
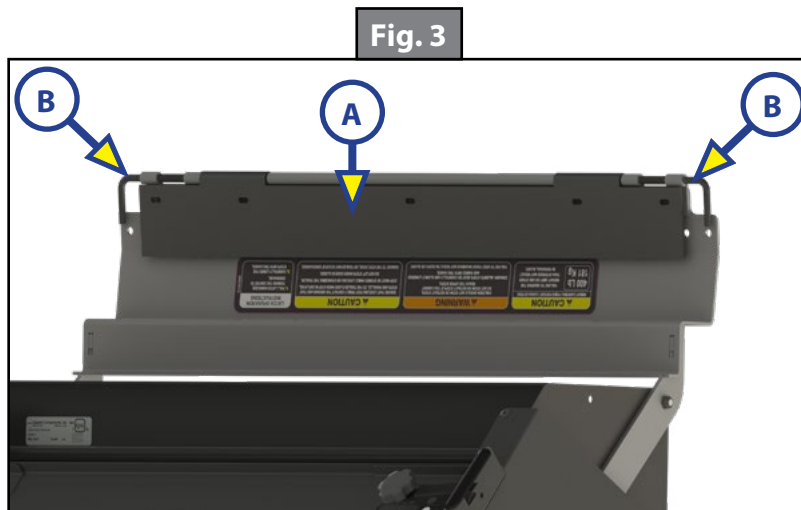
If the measurement of the door frame inner flange (Fig. 2) to opposite door frame inner flange is an even number, i.e. 28, 30, 30 1/2, etc., center the threshold hinge plate (Fig. 3A) for installation. If the measurement of the door frame inner flange to opposite door frame inner flange (Fig. 2) is an odd number, i.e. 27, 29, 29 1/4", etc., the threshold hinge plate (Fig. 3A) will be shifted 1" to the left from the center of the threshold for installation. Record the measurement of the door frame inner flange to door frame inner flange for later use in installation. The latches (Fig. 10A) on the step assembly will be preset and will additionally account for any offset of the threshold hinge plate if the inner flange to inner flange measurement is an odd number. Fine tune adjustments to the latches can be made once the threshold plate is installed and the steps are attached.



Installation

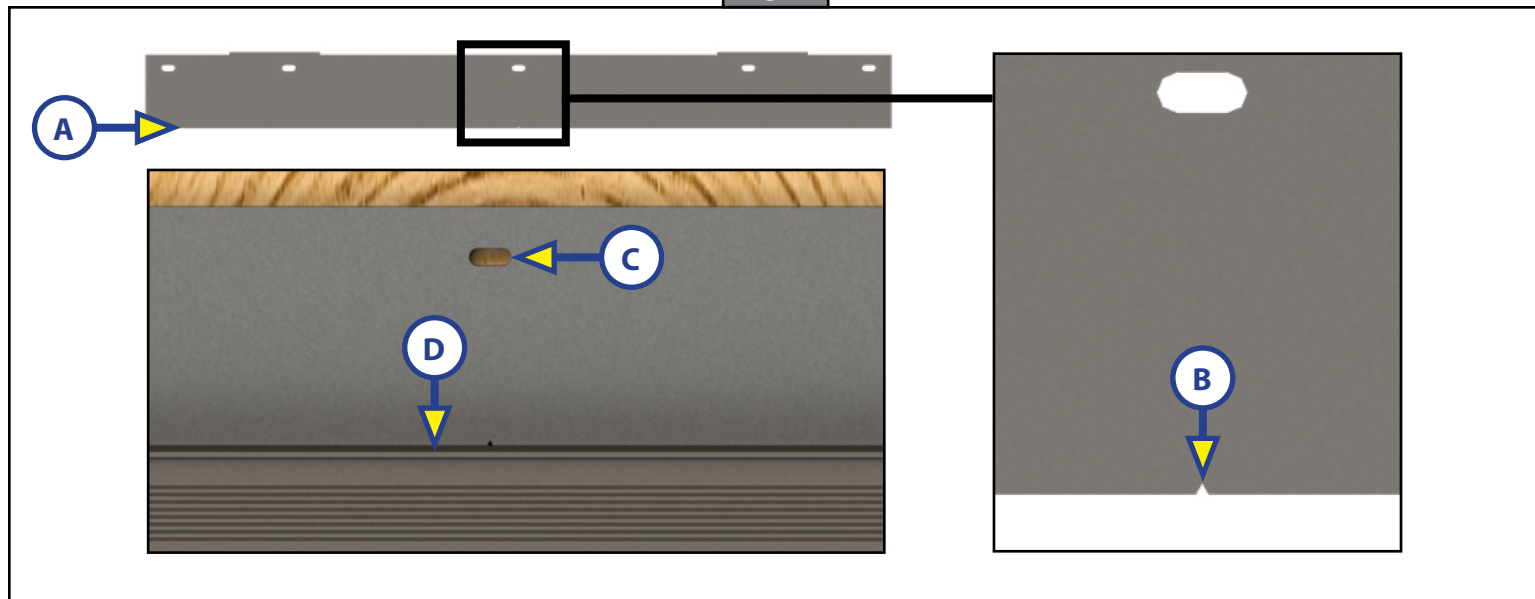
Securing the SolidStep XF Threshold Hinge Plate

1. Remove the threshold hinge plate (Fig. 3A and 4A) from the SolidStep XF by pulling both spring loaded hinge pins (Fig. 3B and 4B) out far enough so that the threshold hinge plate separates from the SolidStep XF.



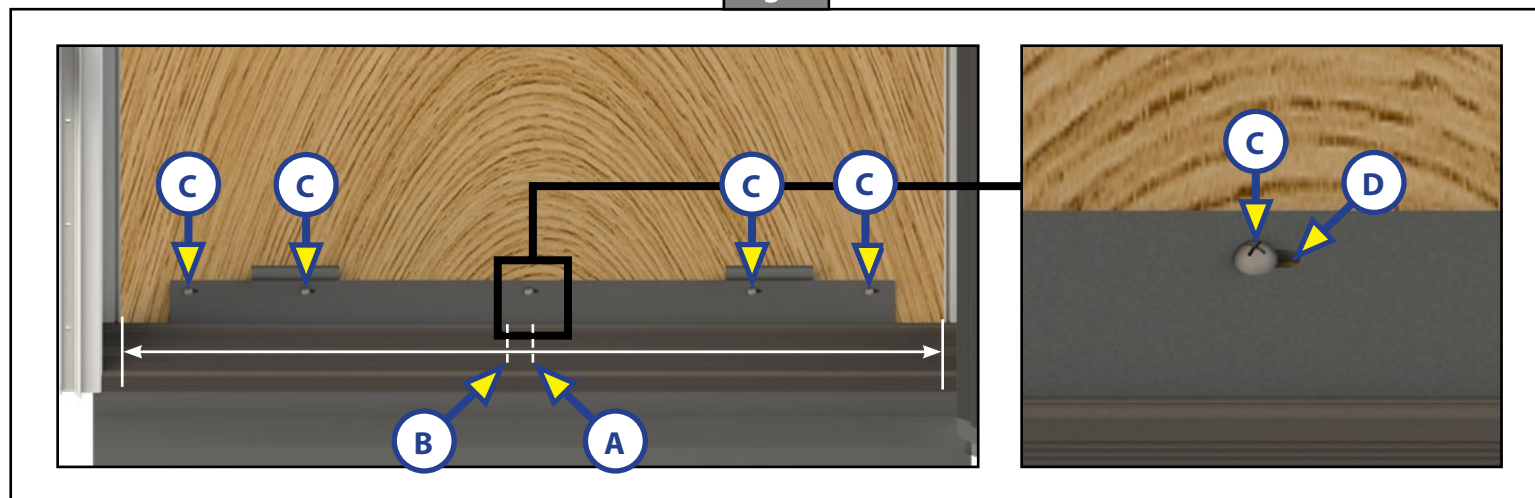
2. Look for the notch (Fig. 5B) at the center edge of the threshold hinge plate (Fig. 5A), this notch will be aligned to the center of the door frame threshold or 1" left of center, depending on the door frame inner flange measurement. Figure 6 shows the door frame inner flange for verification. Place the threshold hinge plate notched side (Fig. 5B), flush against the door frame threshold (Fig. 5D). Screw holes (Fig. 5C) in the threshold hinge plate will be farthest away from the door frame threshold.

Fig. 5



3. Use the measurement of the inner flange to inner flange and find the center (Fig. 6A). Align the threshold hinge plate notch to the center of the door frame threshold or if the door frame is an odd measurement, to the left 1" from the center (Fig. 6B) of the door frame inner flange measurement.

Fig. 6



4. Install #10 x 1 1/2" wood screws for a wood floor or #10 x 1 1/2" self-tapping screws (Fig. 6C) for a laminate floor in the five predrilled screw holes (Fig. 6D).

5. Place the SolidStep XF assembly (Fig. 7B) into the door frame (Fig. 7A), in the extended position.
6. Pull the spring loaded hinge pins (Fig. 8A) out and move the Solidstep XF assembly towards the threshold hinge plate aligning the center hinge barrel (Fig. 8B) with the threshold hinge plate barrels (Fig. 8C).

Fig. 7

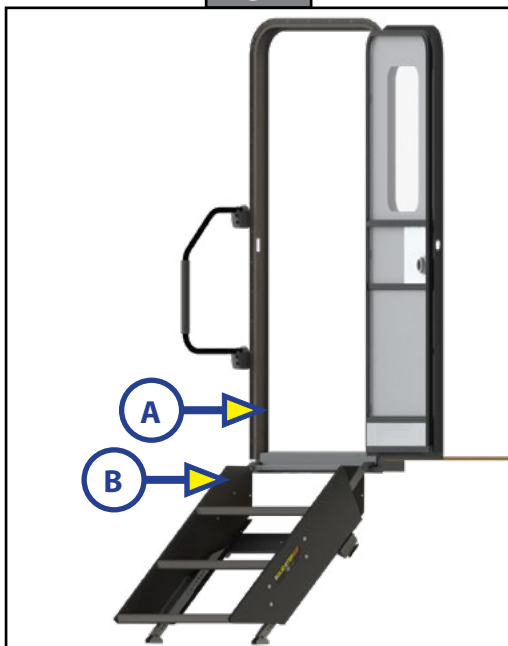
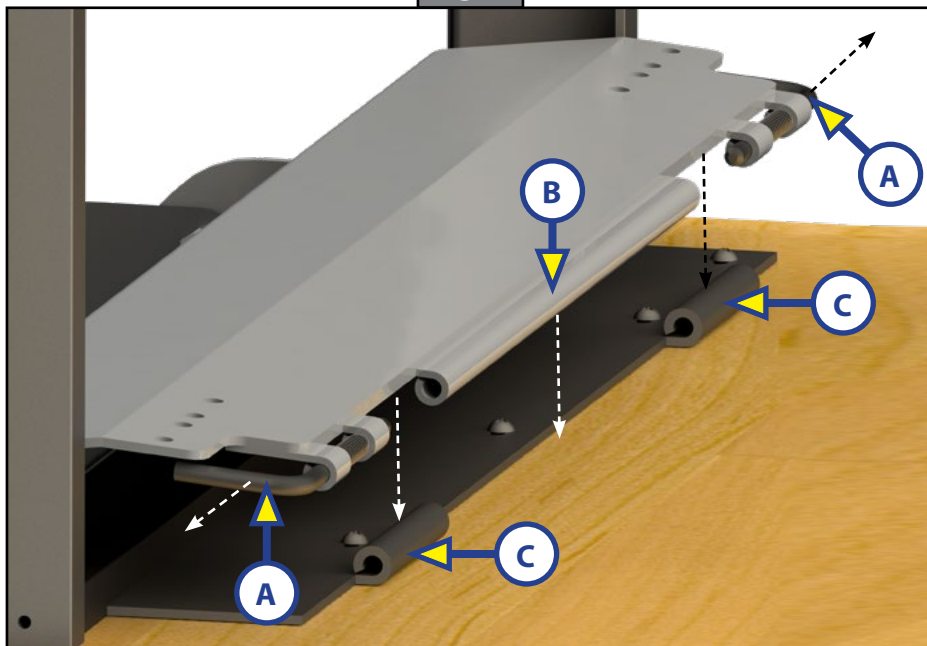
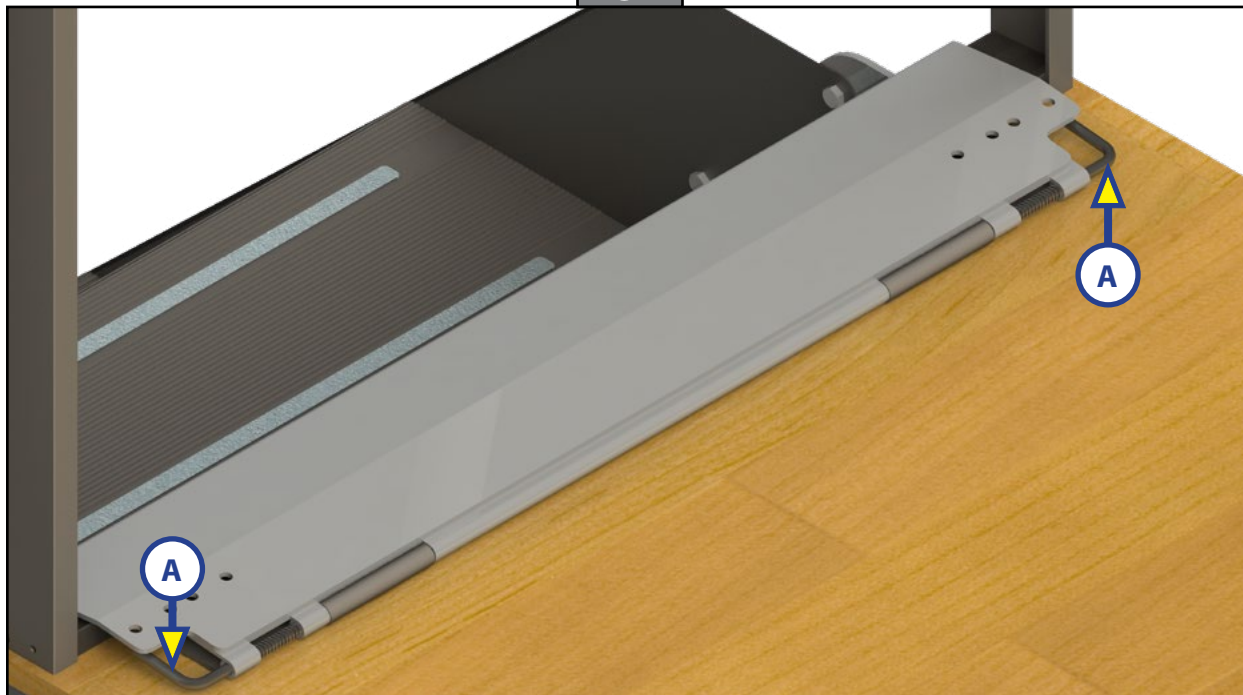


Fig. 8



7. Release the spring loaded threshold pins (Fig. 9A) so that the Solidstep XF assembly is now attached to the threshold hinge plate.

Fig. 9



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. Lift up SolidStep XF to its stored position (Fig. 10). Make sure transport latch flanges (Figs. 10A, 11A and 12A) are resting against the door frame. If final adjustment is required, loosen the two bolts (Fig. 11B and Fig. 12B) on either side of the adjustable transport lock. This allows for side-to-side adjustment in the latch mechanism.

Fig. 10

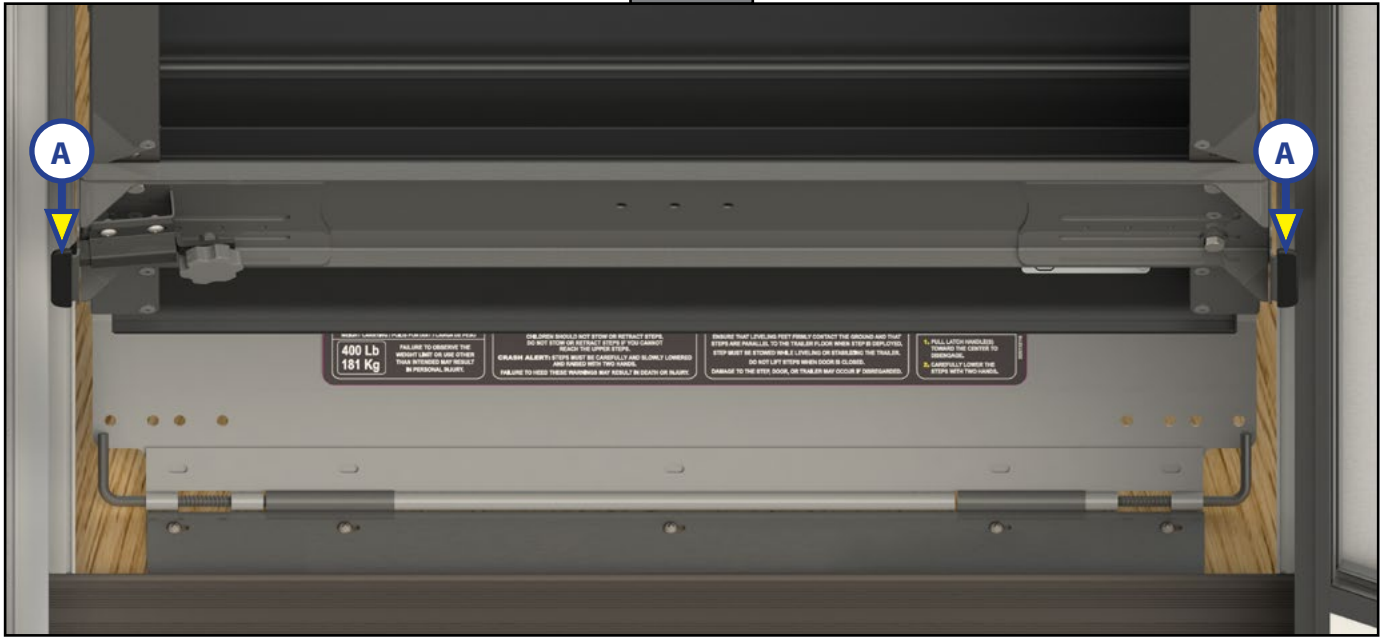


Fig. 11

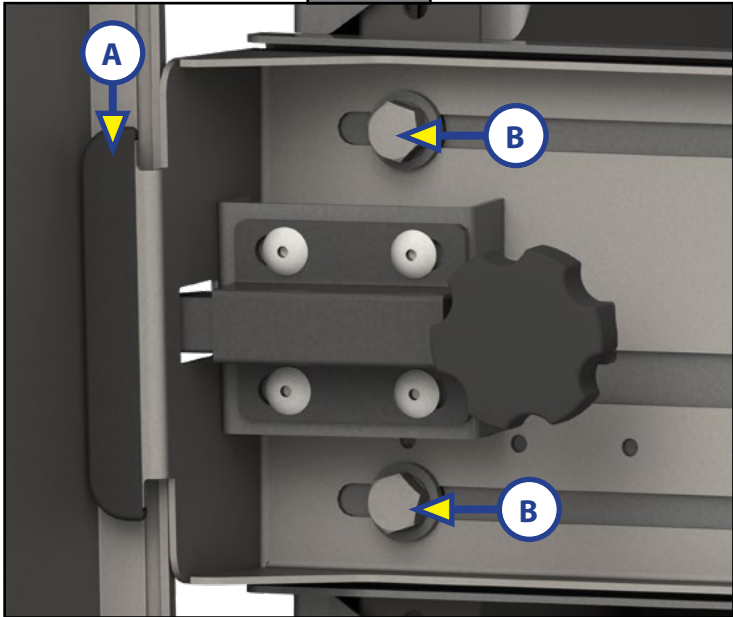
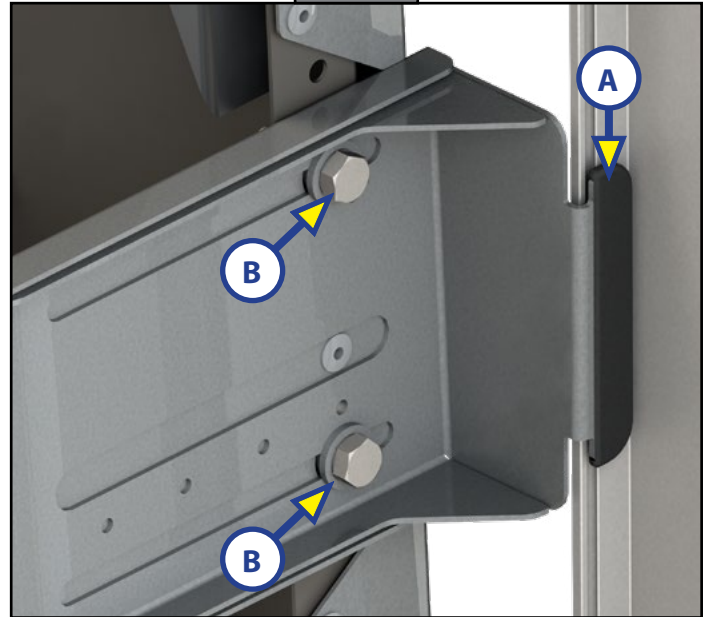


Fig. 12



⚠ CAUTION

Do not overtighten the bolts. Overtightening the bolts may damage the threads or cause the bolt heads to break off.

2. Once the transport lock mechanism (Fig. 13A) and the transport latch flanges (Figs. 14B and 15B) are in the correct position, tighten the bolts (Figs. 14A and 15A) with a 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. 14C) to ensure the transport latch flanges (Figs. 14B and 15B) do not scrape against the door frame (Figs. 14D and 15C).

Fig. 13



Fig. 14

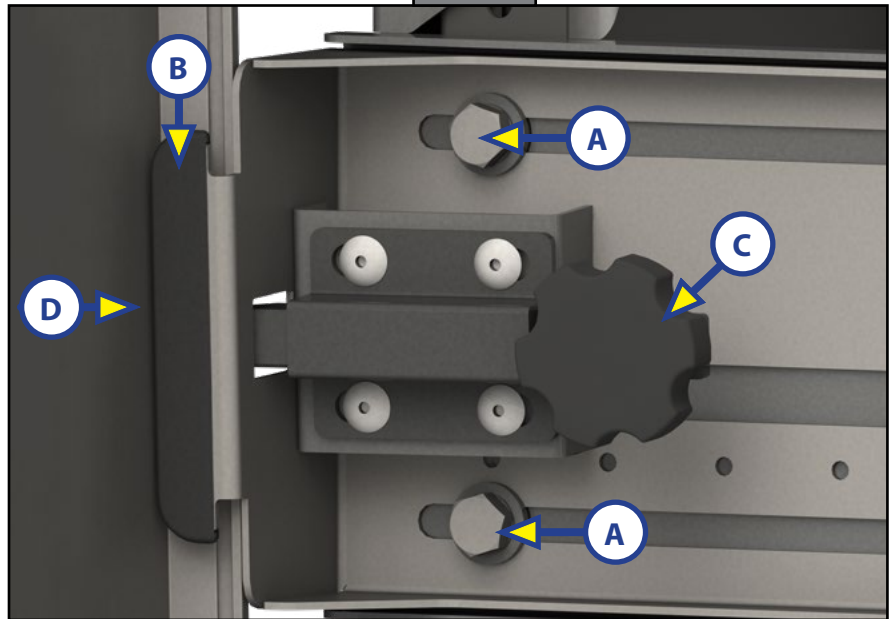
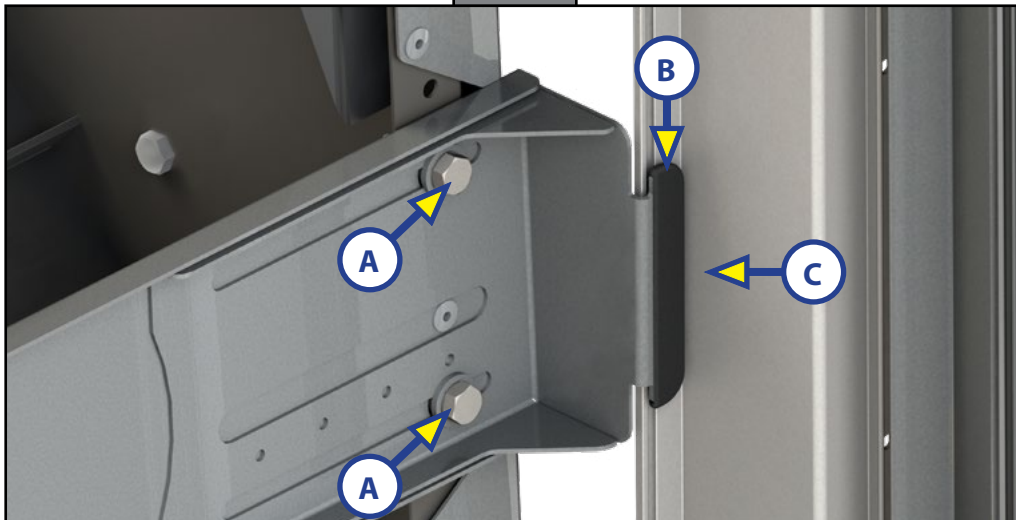


Fig. 15



Operation

⚠ CAUTION

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

Release Steps

1. From the stowed position (Fig. 16), disengage the transport lock (Fig. 16A) by pulling the transport lock knob to the right.
2. Firmly grasp and pull out the vertically stored SolidStep XF and rest it firmly on the ground.
3. Adjust leg extensions as needed. See Leg Extension Adjustment section.

Fig. 16



Leg Extension Adjustment

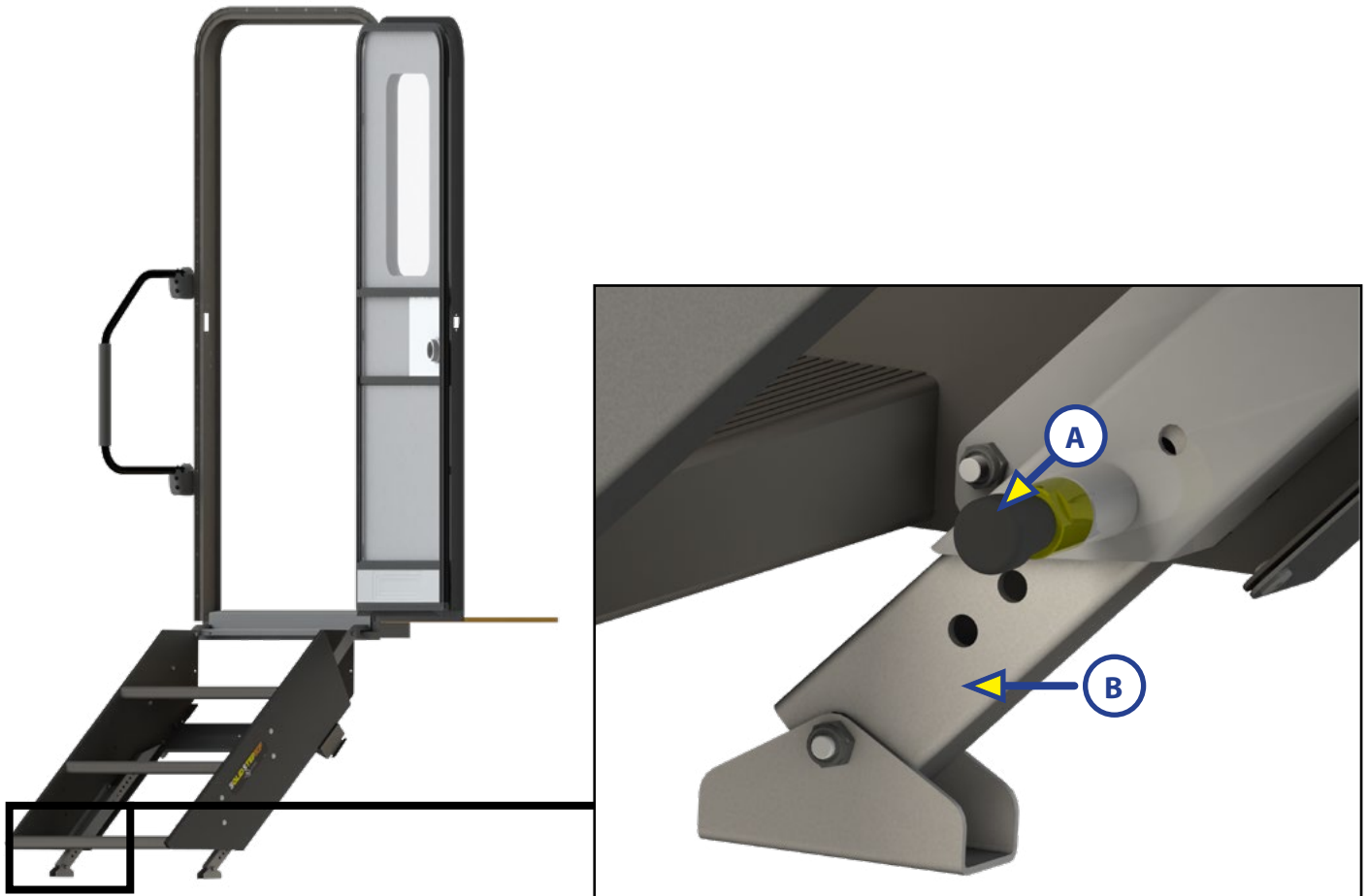
The leg extension is secured with a spring-loaded plunger (Fig. 17A). Adjustments can be made to the leg extensions in 1" increments by extending or retracting the inner leg for the optimal angle and to adjust for the ground surface angle.

1. To extend the inner leg (Fig. 17B):
 - A. Pull the spring-loaded plunger (Fig. 17A) out from the tube and the slot in the angle.
 - B. Extend the inner leg (Fig. 17B) to the ground and at an angle so the steps are parallel to the ground and level.
 - C. Release the spring-loaded plunger (Fig. 17A) into the tube and slot closest to where the inner leg and tube meet.
2. To retract the inner leg (Fig. 17B):
 - A. Pull the spring-loaded plunger (Fig. 17A) out from the tube and the slot in the angle.
 - B. Retract the inner leg.
 - C. Release the spring-loaded plunger (Fig. 17A) into the tube and slot closest to where the inner leg and tube meet.

Secure Steps

1. Retract leg extensions. See Leg Extension Adjustment section.
2. Lift up SolidStep XF to its stored position (Fig. 16).
3. Make sure the latches (Fig. 16B) are resting against the door frame.
4. Once the transport lock has been engaged, test its functionality by shaking the step assembly to simulate road vibration, making sure that the SolidStep XF is secure.

Fig. 17



Notes

[illegible]



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