



# SolidStance™ Step Stabilizer

## Installation and Owner's Manual

(For Aftermarket Applications)

### SolidStance Step Stabilizer Aftermarket Kit

Part #	Description
<a href="#">2020109777</a>	SolidStance Step Stabilizer with Hardware

### Compatible LCI Step Part Numbers for the SolidStance Step Stabilizer Aftermarket Kit

*OEM #	**AM #	Description
173552	<a href="#">432682</a>	Steel Radius Double Step
177439	<a href="#">432687</a>	Steel Radius Triple 7" Step
177440	<a href="#">432690</a>	Steel Radius Triple 9" Step
429994	<a href="#">333969</a>	Alumi-Tread Hybrid Double Step
430980	N/A	Alumi-Tread Hybrid Triple 7" Step
358992	<a href="#">432696</a>	Alumi-Tread Hybrid Triple 9" Step

\*OEM # is the Original Equipment Manufacturer part number.

\*\*AM # is the Aftermarket part number.

**NOTE:** The SolidStance Step Stabilizer is **NOT** compatible with:

- any non-LCI double steps.
- any LCI or non-LCI quad steps. If the SolidStance is installed to a quad step, the quad step will not have adequate clearance to be stowed.

**NOTE:** The SolidStance Step Stabilizer can be installed on a non-LCI triple step assembly. A few extra instruction notes and fasteners will be provided for installation. See all Notes in the Installation instructions of this manual.

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# SolidStance<sup>™</sup> Step Stabilizer

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## Introduction

The SolidStance<sup>™</sup> Step Stabilizer is designed to add ground support to most manual double or triple steps whose lowest step surface rests anywhere between 5 and 14 inches off the ground. The SolidStance Step Stabilizer gives additional support to recreational vehicle steps and ladders. The SolidStance Step Stabilizer has two adjustable support legs with footpads to accommodate the height from the bottom step to the ground, giving solid and secure support to keep the steps from rocking when in use.

Additional information about this product can be obtained from [lci1.com/support](http://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<sup>®</sup> for iPhone<sup>®</sup> and iPad<sup>®</sup> and also on Google Play<sup>™</sup> for Android<sup>™</sup> users.

App Store<sup>®</sup> and iPad<sup>®</sup> are registered trademarks of Apple Inc.

Google Play<sup>™</sup> and Android<sup>™</sup> 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

FAILURE TO FOLLOW THE INSTRUCTIONS PROVIDED IN THIS MANUAL MAY RESULT IN DEATH, SERIOUS PERSONAL INJURY, SEVERE UNIT DAMAGE OR VOIDING OF THE COMPONENT WARRANTY.

### 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 PARAMETERS SET FORTH IN MANUAL

### CAUTION

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

### CAUTION

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

### 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.

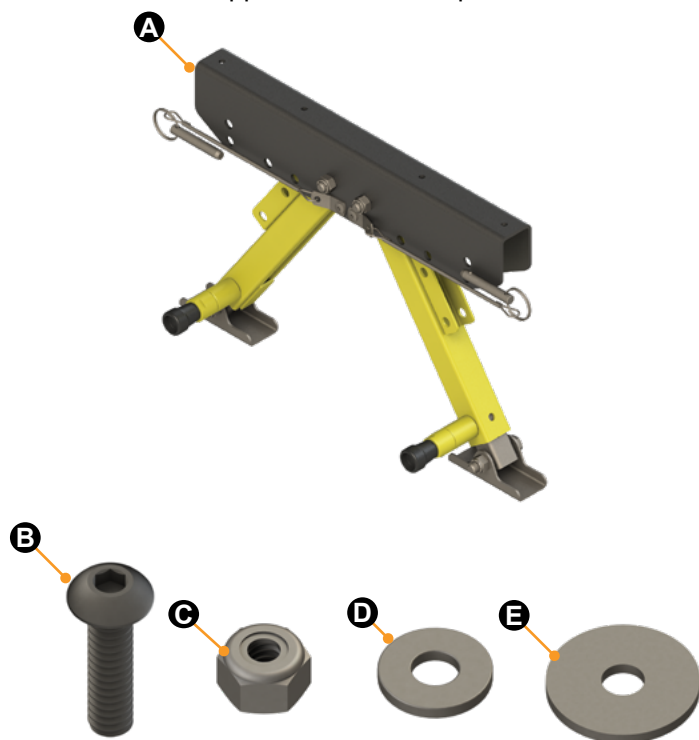


# SolidStance<sup>™</sup> Step Stabilizer

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### 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.



#### SolidStance Step Stabilizer Aftermarket Kit P# 2020109777

Letter	PN	Description	Qty
A	788889	SolidStance Step Support, 5" - 14"	1
B	2021127649	Machine Screw, #10 - 24 x 3/4"	4
C	378213	Nylon Locking Nut, #10 - 24	4
*D	<a href="#">231161</a>	Washer, #10 FLW ZN ST	4
*E	728083	Washer, 1/4" x 1" FLW ZN GR2 ST	12

\* Callout letters D and E are only required if installing the SolidStance on a non-LCI step assembly.

### Resources Required

- Cordless or electric drill or screw gun
- Appropriate drill bits
- 3/8" deep well socket
- Measuring tape
- Non-permanent method of marking



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### Prior to Installation

1. Support the unit according to OEM recommendations.
2. Make sure unit is parked on solid, level ground.
3. When parking the unit on extremely soft surfaces, utilize load distribution pads under each jack.
4. Clear all jack landing locations of debris and obstructions. Landing locations should also be free of depressions.
5. Chock all tires.

**NOTE:** Make sure the SolidStance Step Stabilizer is installed on an LCI-approved step assembly. If installing on a non-LCI step assembly, make sure to adhere to all Notes. There will be additional steps involved for the installation on a non-LCI step assembly.

### Installation

1. Place the steps in the stowed position or fold up the bottom step with a support in between the bottom step and the step above it.
2. Measure the width of the step and mark the center (Fig.1A).
3. Measure the width of the SolidStance Step Stabilizer and mark the center (Fig.1B).
4. Place the SolidStance up against the front lip (Fig.1C) of the bottom step. Make sure the spring loaded pins (Fig.1D) are facing towards the unit once the bottom step is in the deployed position.

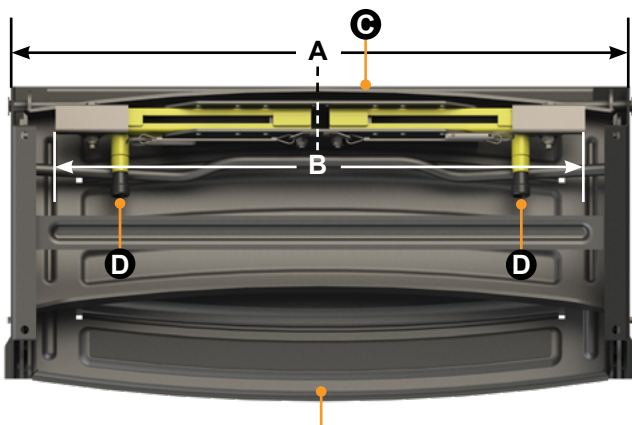


Fig.1 stowed view of steps from above

5. Align the center of the SolidStance (Fig. 1B) with the center of the step (Fig. 1A).

6. Make sure the SolidStance is against the front lip of the step.

**NOTE:** If there is a curve to the front lip of the step (Fig.2A) it is more important to have the SolidStance's drop leg channel (Fig.2D) aligned with the tread area of the step (Fig.2C) than up against the lip of the step (Fig.2A).

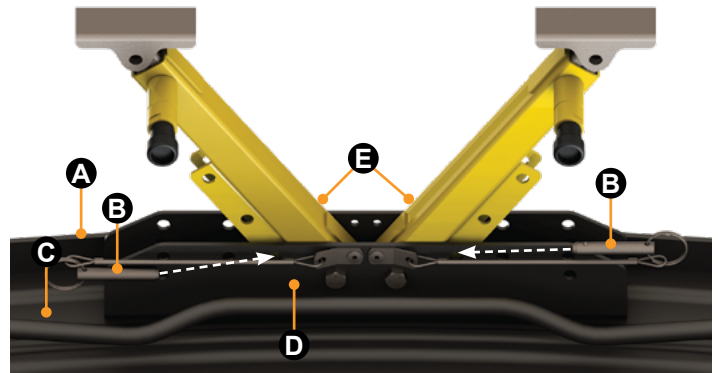


Fig.2

7. Clamp or hold the SolidStance in the centered position on the step.

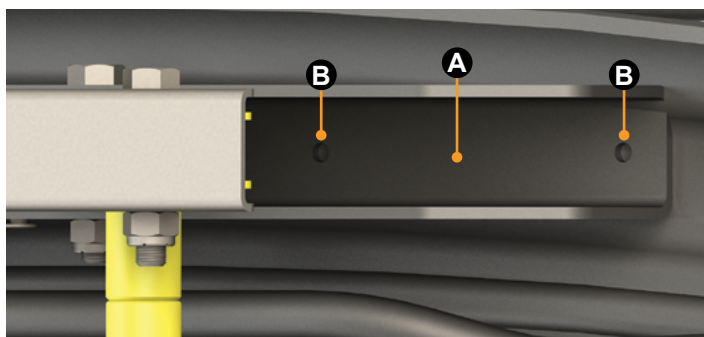
8. Lift the drop legs (Fig.2E) up and place the fastener pins (Fig.2B) through the SolidStance drop leg channel (Fig.2D), through the drop legs and out the front of the drop leg channel to hold the drop legs in place.



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**9.** In the base of the drop leg channel (**Fig.3A**) mark the four pre-drilled hole locations, two pre-drilled holes (**Fig.3B**) on each end of the drop leg channel.



**Fig.3**

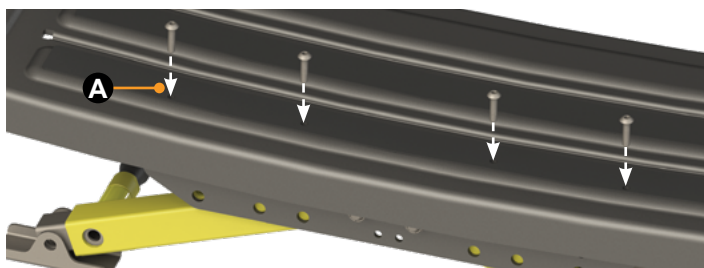
**10.** The SolidStance can be removed and set aside

**11.** At the four marked locations, drill a  $\frac{3}{16}$ " hole through the step.

**12.** Return the SolidStance to the centered position on the step. Align the holes of the SolidStance with the drilled holes.

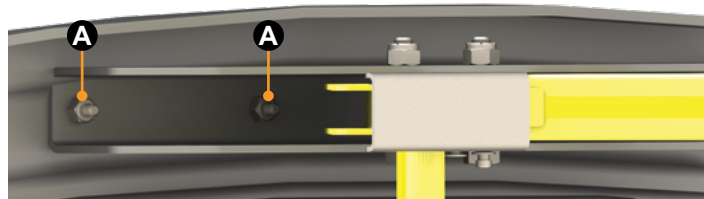
**13.** Install the supplied #10 - 24 x  $\frac{3}{4}$ " machine screws (**Fig.4A**) through the drilled holes located at the top of the step, going through the tread area, into the pre-drilled holes of the SolidStance drop leg channel.

**NOTE:** If installing on a non-LCI step, place a #10 machine screw into a #10 washer and install through holes in the tread.



**Fig.4**

**14.** Align the holes in the top of the drop leg channel over the four #10 - 24 x  $\frac{3}{4}$ " machine screws, placing the SolidStance against the bottom the step. Secure the SolidStance with four provided #10 - 24 nylon locking nuts, (**Fig.5A**) two on each end of the drop leg channel.



**Fig.5**

**NOTE:** If installing on a non-LCI step,  $\frac{1}{4}$ " x 1" washers may be needed to allow the SolidStance to be installed with an extra gap between the top of the SolidStance drop leg channel (**Fig.3A**) and the bottom of the step, which eliminates any potential interferences from the aluminum structural support ribs that could otherwise inhibit the SolidStance's ability to lock into a stowed position with the quick release fastener pin (**Fig.6B**). Place 1 - 3 provided  $\frac{1}{4}$ " x 1" washers onto each of the four #10 - 24 x  $\frac{3}{4}$ " machine screw ends before attaching the SolidStance with the four supplied #10 - 24 nylon locking nuts (**Fig.5A**). The number of washers used will vary depending on the non-LCI step.



## Operation

### Extended Position

#### ⚠ CAUTION

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

1. Make sure the unit is parked on solid level ground.
2. Firmly hold of one of the drop legs (Fig.6A) and pull the quick release fastener pin (Fig.6B) out of the drop leg channel (Fig.6C). Carefully allow the drop leg footpad (Fig.7A) to touch down to the ground.
3. Complete step 2 for the other drop leg.

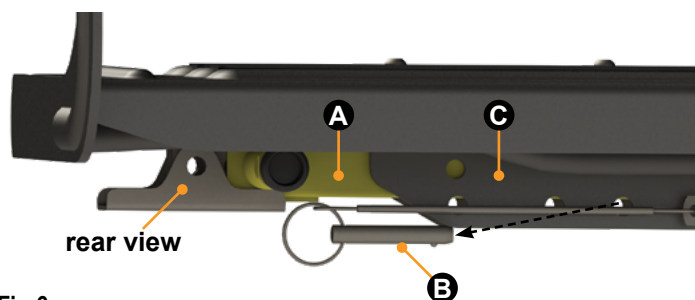


Fig.6

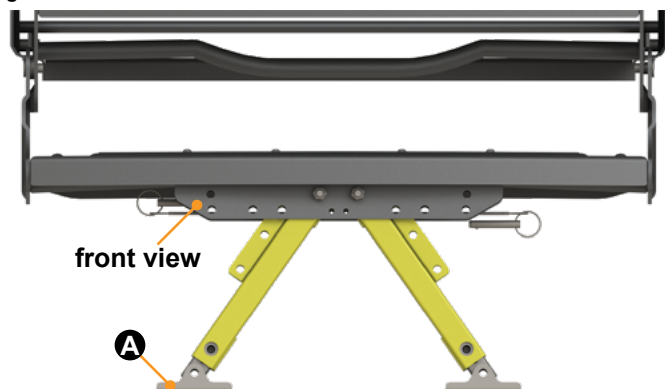


Fig.7

4. If the footpads do not reach the ground, pull the spring loaded pin (Fig.8B) out on the drop leg to extend the inner leg (Fig.8C) down so that the footpad (Fig.8D) touches down to the ground.
5. Align the closest pin hole in the inner leg (Fig.8C) to the spring loaded pin (Fig.8B). Allow the spring loaded pin to insert into the inner leg to lock it in place.

6. Complete step 4 for the other drop leg.

7. There are four drop leg channel angles (Fig.8E, 8F and 8G) where the drop leg can be positioned. Align the drop leg (Fig.8A) with the angle required to the closest hole in the drop leg channel to give the SolidStance a sturdy position with the ground.

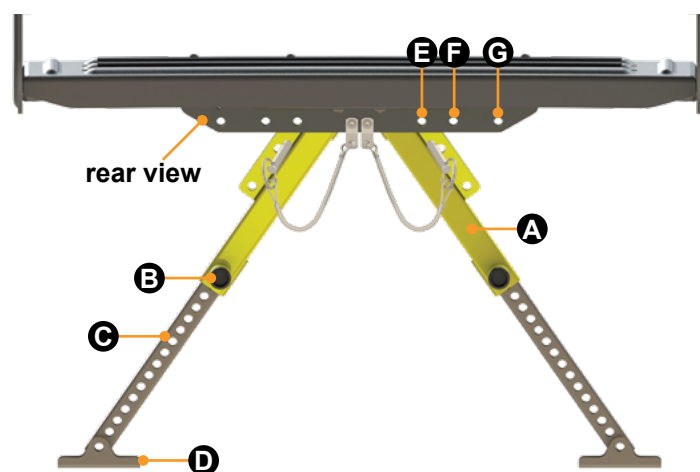


Fig.8

8. Insert both fastener pins (Fig.9A) into the appropriate hole through the back of the drop leg channel (Fig.9B) through the drop leg and out the front of the drop leg channel. Make sure the fastener pin is all the way through to the front of the drop leg channel to secure the drop leg in place.

**NOTE:** Securing the fastener pins from the back to the front will help avoid anything catching on the wire lanyard.

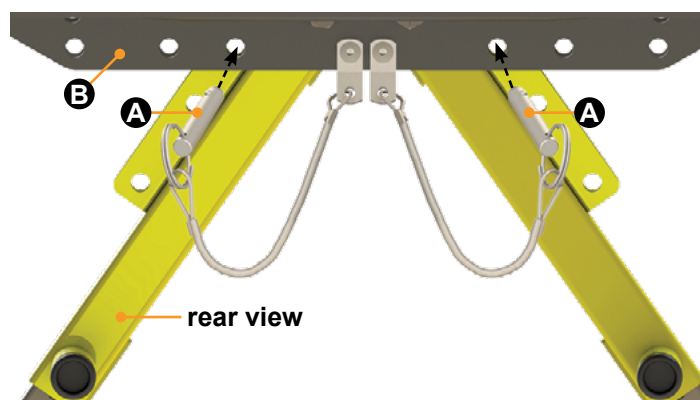


Fig.9

### Stowed Position

#### CAUTION

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

1. Remove both fastener pins (Fig.10A) from the back of the drop leg channel (Fig.10B).

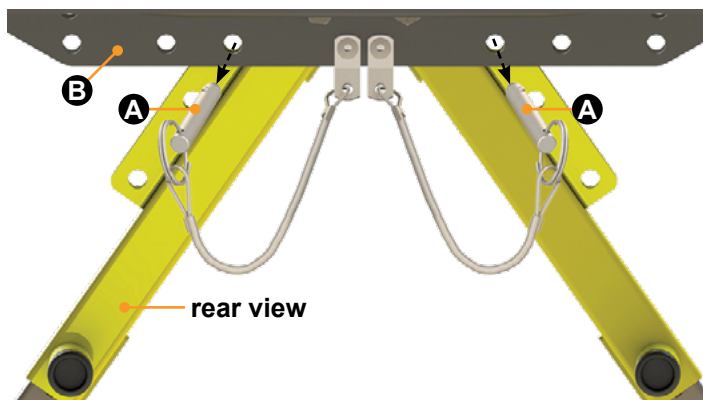


Fig.10

2. If the inner legs (Fig.11C) are extended on the drop legs (Fig.11A) pull the spring loaded pin (Fig.11B) out and slide the inner leg up into the drop leg as far as it will go. Allow the spring loaded pin to insert into the closest pin hole in the inner leg to lock into place.
3. Complete step 2 for the other drop leg.

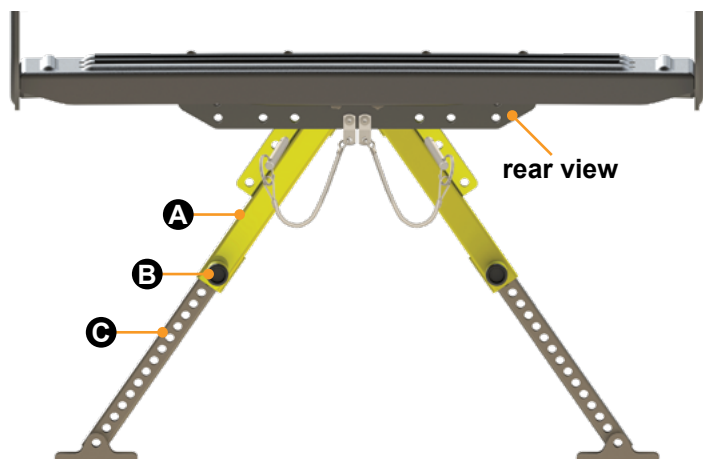


Fig.11

4. Move the drop leg (Fig.12A) up into the base of the drop leg channel (Fig.12C). Align the holes in the drop leg with the holes in the drop leg channel.

5. Insert the fastener pin (Fig.12B) into the drop leg channel (Fig.12C), through the drop leg (Fig.12A) and out the front of the drop leg channel. Make sure the fastener pin is all the way through to the front of the drop leg channel to secure the drop leg in place.

**NOTE:** Securing the fastener pins from the back to the front will help avoid anything catching on the wire lanyard.

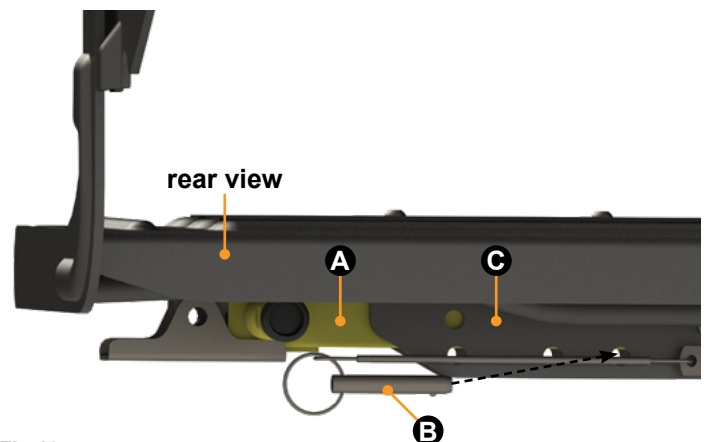


Fig.12

## Maintenance

Periodically use soap and water to clean the footpads, drop legs and inner legs of the SolidStance. This will keep the SolidStance free from dirt and debris build-up and keep the inner legs of the drop legs in working order to slide in and out of the drop leg tubes.

Periodically check the nuts (Fig.5A) are secured to the machine screws holding the SolidStance to the step.



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## Notes



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