



SOLIDSTEP® 3.0 LIFT ASSIST OEM INSTALLATION MANUAL

L I P P E R T
C O M P O N E N T S®

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System Information

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 35-44" for a 4-step tread and 27-36" for a 3-step tread.

Safety Information

The step assembly was designed for an operational weight rating of 400 lbs.

WARNING

Failure to follow the instructions provided in this manual may result in death, serious injury, trailer damage or voiding of the component 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.

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.

CAUTION

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

Resources Required

- 1 to 2 Persons, depending on task
- Cordless or Electric Drill or Screw Gun
- Appropriate Drive Bits
- Tape Measure
- Backer Plate with Appropriate Fasteners
- #10 - 1 1/2" Self-Tapping Screws (laminate floor) or #10 - 1 1/2" Wood Screws (wood floor)
- #10 Self-Tapping Screws (aluminum stud wall construction) or #10 Wood Screws (wood stud wall construction) of appropriate length to penetrate the wall stud depth by at least 75 percent

Prior to Installation

Prior to installation, verify that the trailer is on level or near level ground.

1. Secure OEM-supplied wooden backer beam, or comparable structural substitute, underneath the sub-floor in front of the doorway where the step hinge plate will be attached.
2. The backer beam should be 1" to 2" thick and at least as wide as the hinge plate.

NOTE: The backer beam provides better penetration for the screws and helps prevent damage to the floor if the step is improperly deployed.

3. Make sure the trailer is parked on solid, level ground.
4. Chock trailer tires to prevent unwanted movement during component installation.

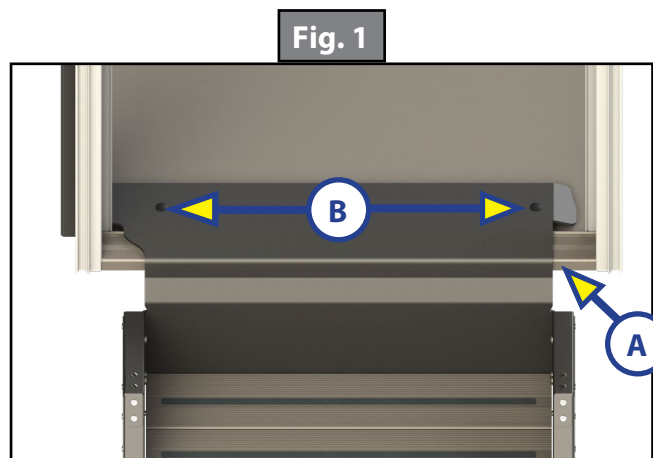
Installation

Place Assembly Inside Doorframe

1. With the steps extended, and in the down position, place the assembly inside the unit's doorframe. Verify with a tape measure that the assembly is centered in the doorframe.

NOTE: Make sure the step threshold plate is placed firmly against the outside of the door threshold (Fig. 1A). If not positioned flush against the outside of the door threshold, the step assembly could prevent the door from closing.

2. Remove the two plastic caps from the alignment cover holes in the mounting plate (Fig. 1B).
3. With the step assembly still in the extended position, install two fasteners, either #10 - 1 1/2" self-tapping screws (laminate floor) or #10 - 1 1/2" wood screws (wood floor), into the hinge plate's alignment cover holes (Fig. 1B) in the mounting plate.
4. After the two fasteners are installed, carefully lift the step assembly to the upright stored position. If the latching mechanism doesn't engage, it will need to be adjusted to operate properly. At this point, have another person hold the step assembly from inside the trailer, then do the "Adjust Transport Lock" procedure.



⚠ 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 two bolts (Fig. 2A) on both sides of the transport lock. This allows for up to a 1/2" of adjustment either way in the latch mechanism.
2. After the transport lock has been correctly positioned, tighten the bolts.

⚠ CAUTION

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

3. After 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. 3A) to make sure the latch flanges do not scrape against the doorframe.

NOTE: To make minor adjustments, it may be necessary to loosen the original two fasteners installed in the hinge plate during placement of the assembly in the doorframe. Refer to step 3 in the "Place Assembly Inside Doorframe" section.

Fig. 2

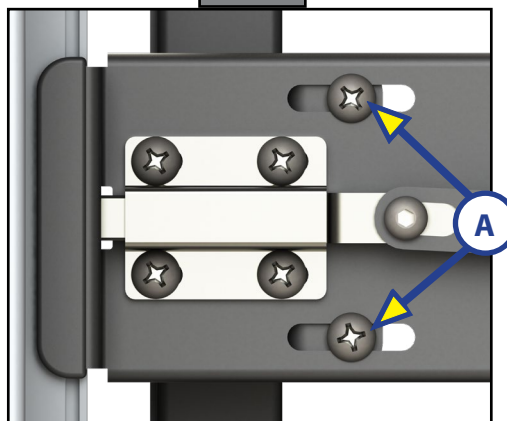
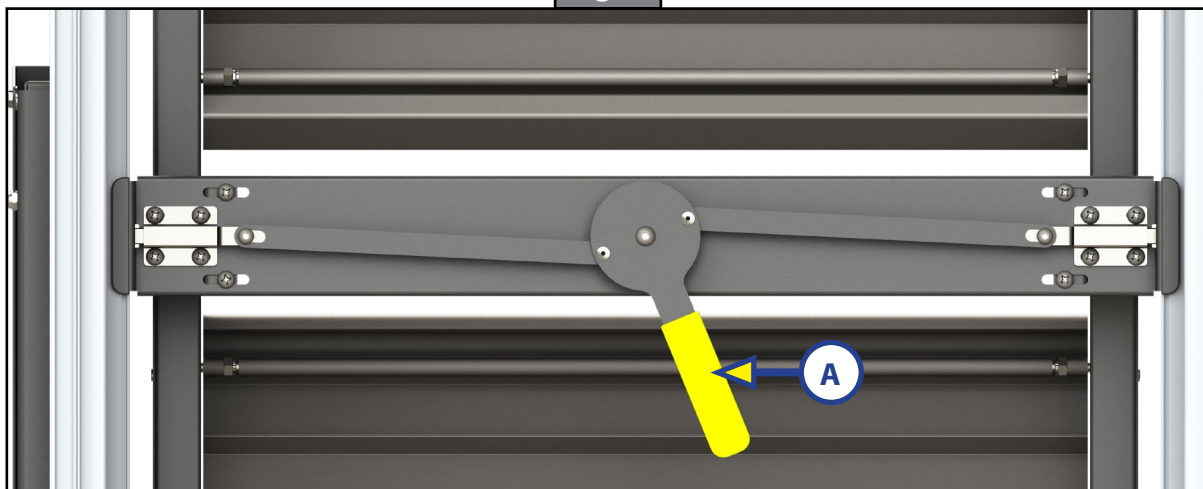


Fig. 3



Secure Hinge Plate

1. After adjusting the transport lock and with the step assembly in the upright stored position, secure the hinge plate (Fig. 4A) to the floor of the trailer using nine additional fasteners; either #10 - 1 1/2" self-tapping screws (laminate floor) or #10 - 1 1/2" wood screws (wood floor). Use the horizontal slots (Fig. 4B) to make additional small adjustments of the step assembly in the doorframe.

NOTE: An optional OEM-supplied step threshold transition piece (Fig. 4C) may be installed to cover the gap between the door threshold and the floor.

2. Extend the step assembly and replace the two plastic caps to cover the access holes in the mounting plate (Fig. 5A).

Fig. 4

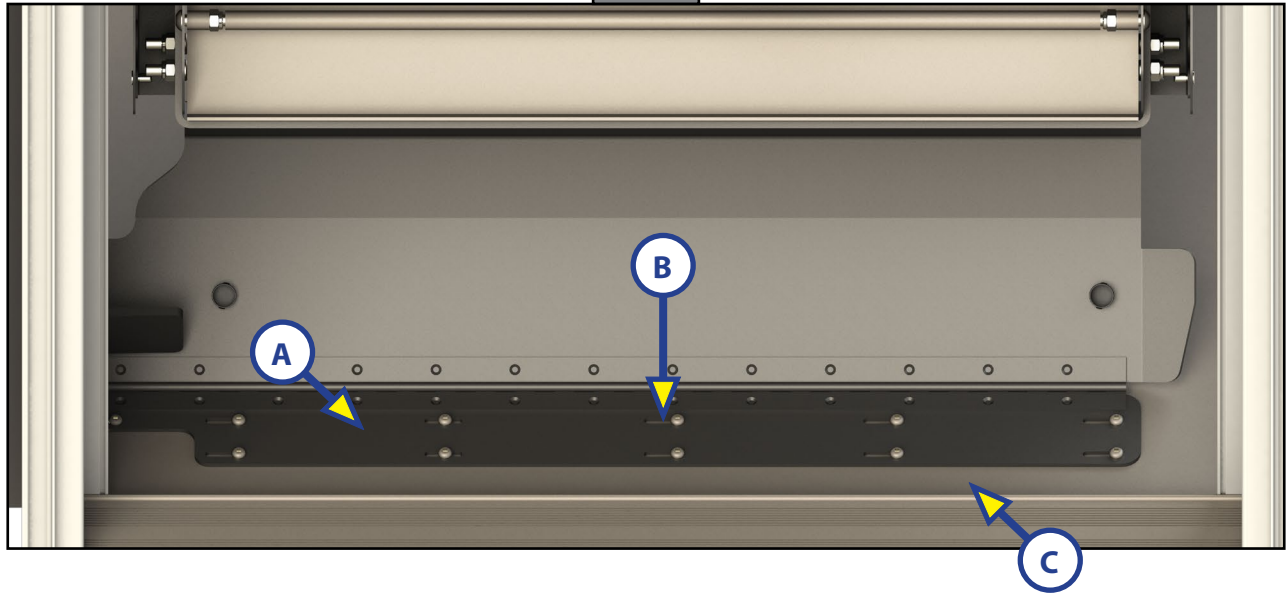
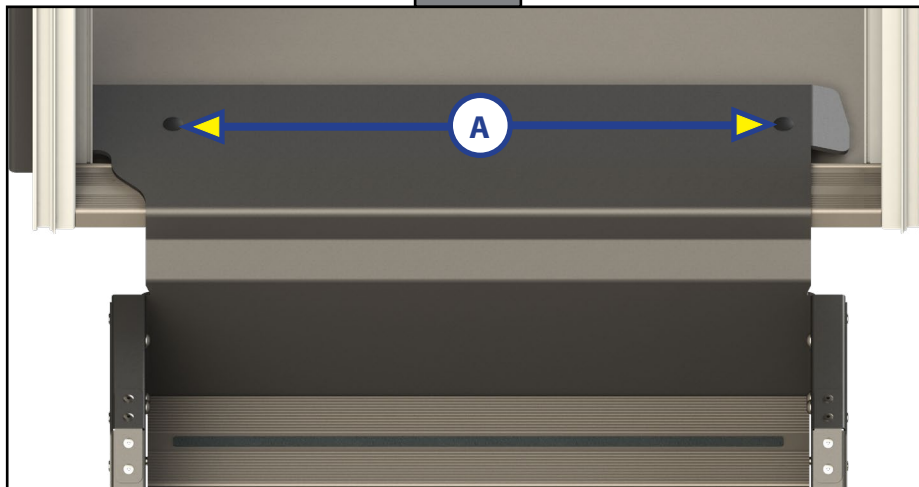


Fig. 5



Attach Strut

1. Remove the trim on the inside of the doorframe where the strut mounting bracket is to be installed.

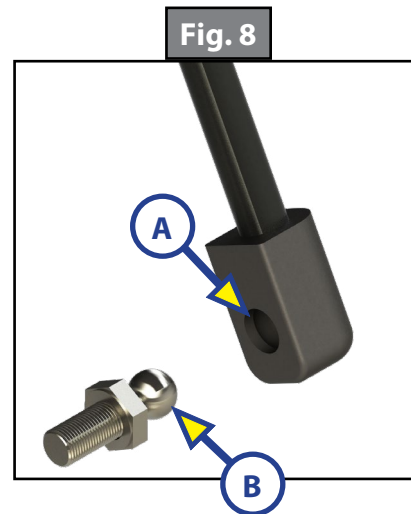
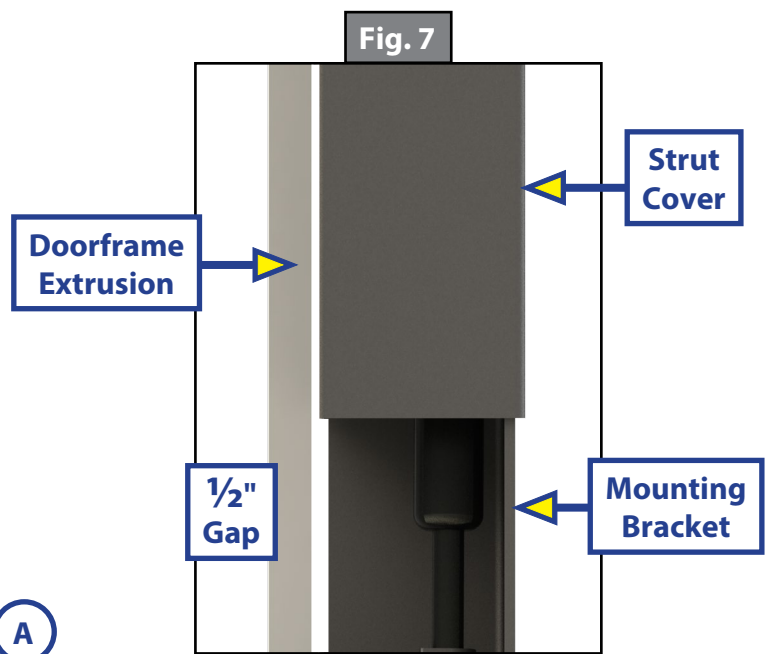
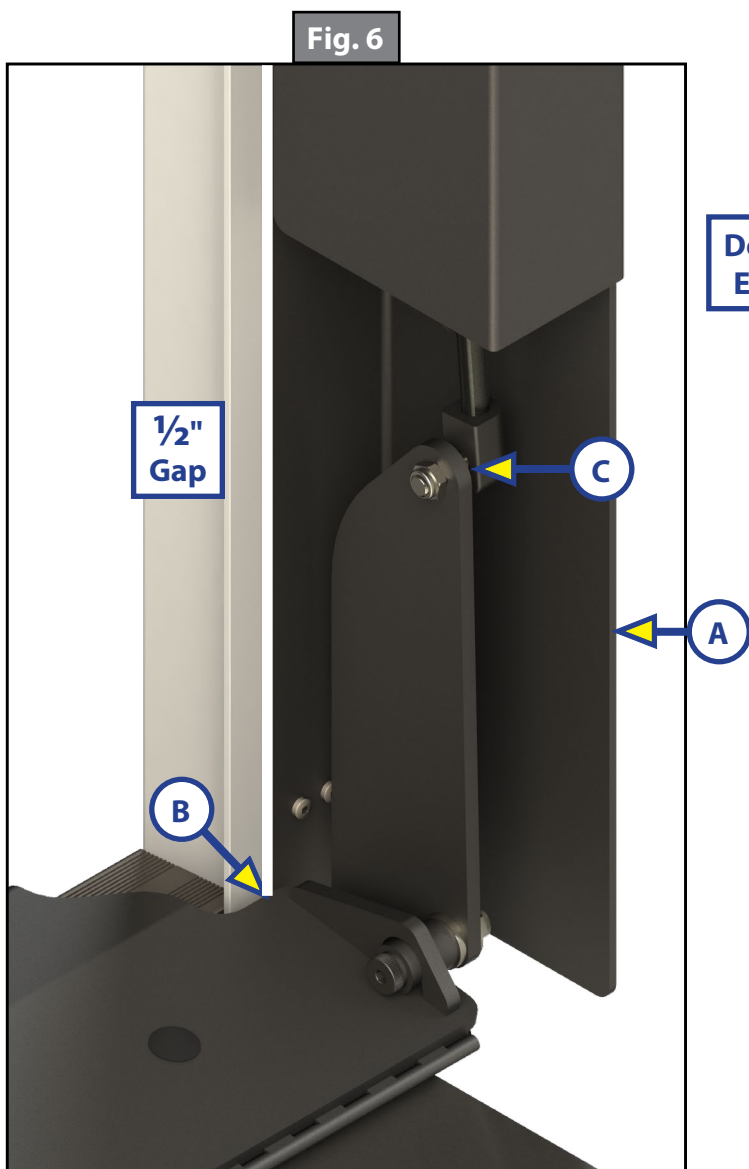
NOTE: Door trim removal is a requirement to prevent interference issues. The trim may be cut to length and installed so that it ends $28\frac{3}{8}$ " above the floor on the strut side of the doorframe.

2. Place the strut mounting bracket (Fig. 6A) into position. The mounting bracket should be flush against the wall and the floor (Fig. 6B), but placed with a $\frac{1}{2}$ " gap along the aluminum doorframe extrusion (Figs. 6 and 7). The strut cover will have a $\frac{1}{8}$ " clearance along the aluminum doorframe extrusion.

NOTE: The floor under the strut mounting bracket has been removed for clarity.

3. Secure the strut mounting bracket using eight screws, either #10 self-tapping screws (aluminum stud wall construction) or #10 wood screws (wood stud wall construction). The screws should be of appropriate length to penetrate the wall stud depth by at least 75 percent.
4. Attach the strut (Fig. 6C) to the top of the step's cam angle load bracket. Push the end of the strut (Fig. 8A) onto the ball stud (Fig. 8B) until it snaps into place.

NOTE: The strut can be removed by using a flathead screwdriver to pry back the spring clip on the strut end.

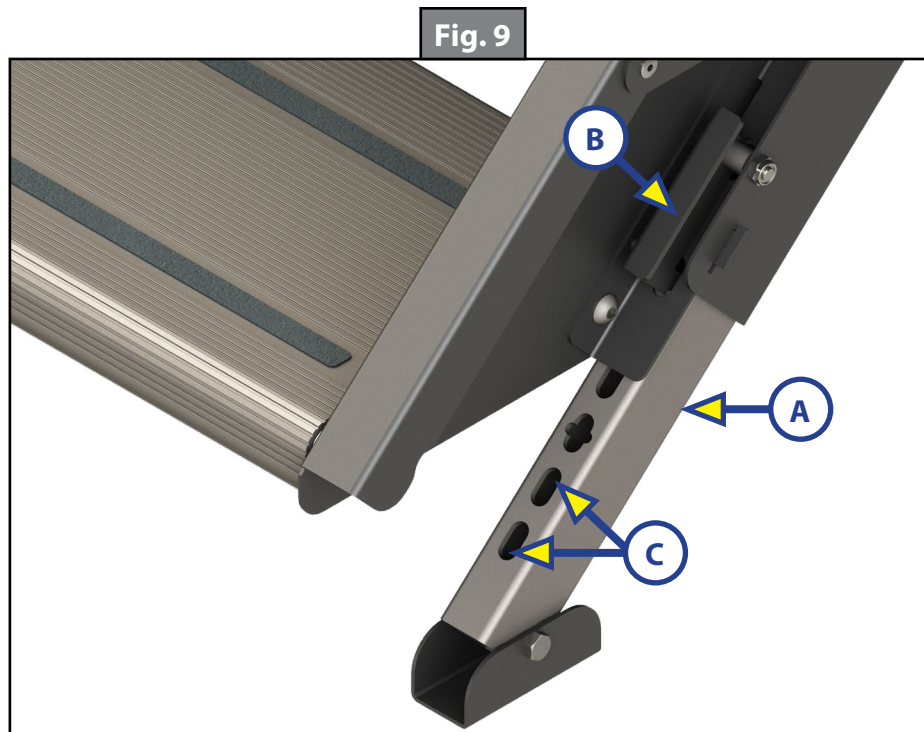


Operation

Adjust Leg Extensions

After extending the step assembly, the leg extensions (Fig. 9A) can be adjusted. The leg extensions are secured with spring loaded, self-latching levers (Fig. 9B). Adjustments can be made to the leg extensions in 1" increments (Fig. 9C) by moving the inner legs up or down for the optimal angle and to adjust for the ground surface angle.

1. To extend the inner leg:
 - A. Lift the self-latching lever (Fig. 9B) and extend the inner leg to the ground and at an angle so the step foot is parallel to the ground and level.
 - B. Place the lever in the closest slot.
2. Prior to using the step assembly, step on a tread to test its functionality and integrity.
3. To retract the inner leg:
 - A. Remove the self-latching lever from the slot.
 - B. Retract the inner leg.
 - C. Replace the lever in last slot.





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