SolidStep® 3.0

OEM INSTALLATION MANUAL

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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 four-step tread, 27-36" for a three-step tread, 22-28" for an economy two-step tread, 19-28" for a premium two-step tread, and 17-22.5" for a one-step tread.

Safety

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

⚠CAUTION

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

Preparation

Resources Required

- 1 to 2 Persons, depending on task
- Cordless or electric drill or screw gun
- Appropriate drive bit
- Tape measure
- #10 - 1 ½" wood screws (wood floor)
- #10 - 1 ½" self-tapping screws (laminate floor)

SolidStep® Tread Count	Part #	Floor Height Range (Min-Max)
Double Premium	676460, 690836, 690837, 690838	19" - 28"
Double Economy	688043, 690833, 690834, 690835	22" - 28"
Triple	693808, 693809, 693810, 693811	27" - 36"
Quad	693802, 693803, 693804, 693805	35" - 44"

Prior to Installation

- Verify that the trailer is on level ground.

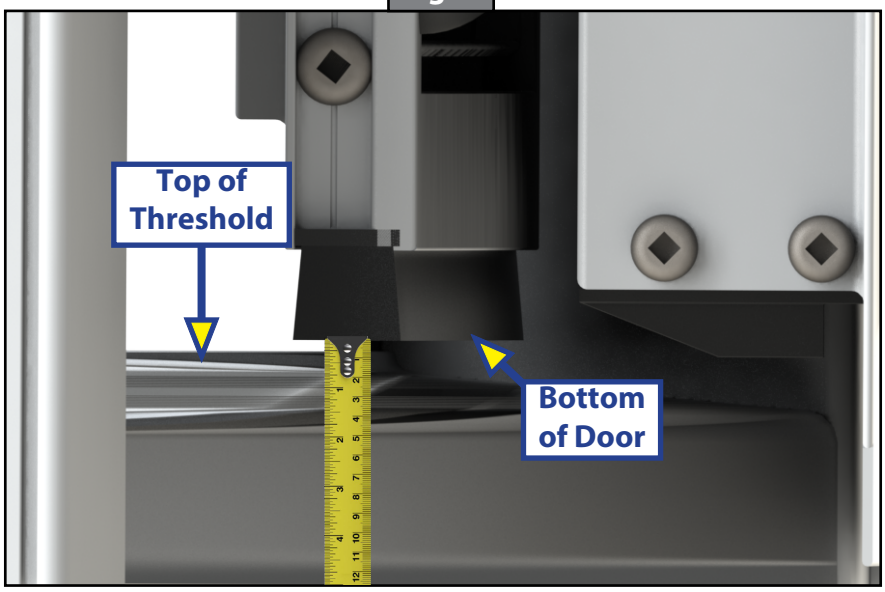
  NOTE: The door and frame have been omitted from figures for clarity.

- Verify the floor of the trailer has sufficient backing material for securing the SolidStep®.

Installation

NOTE: There must be ⅜" from the bottom of the entry and screen doors to the top of the threshold to allow room for the hinge plate (Fig. 1). Without this clearance, the doors will not have sufficient room to close when the steps are extended.

Fig. 1



Place Assembly Inside Doorframe

1. With the step extended in the down position, place the SolidStep® assembly inside the doorframe.

NOTE: Make sure the step threshold plate is placed firmly against the outside of the door threshold (Fig. 2B). If not positioned flush against the outside of the door threshold, the step assembly could prevent the door from closing.

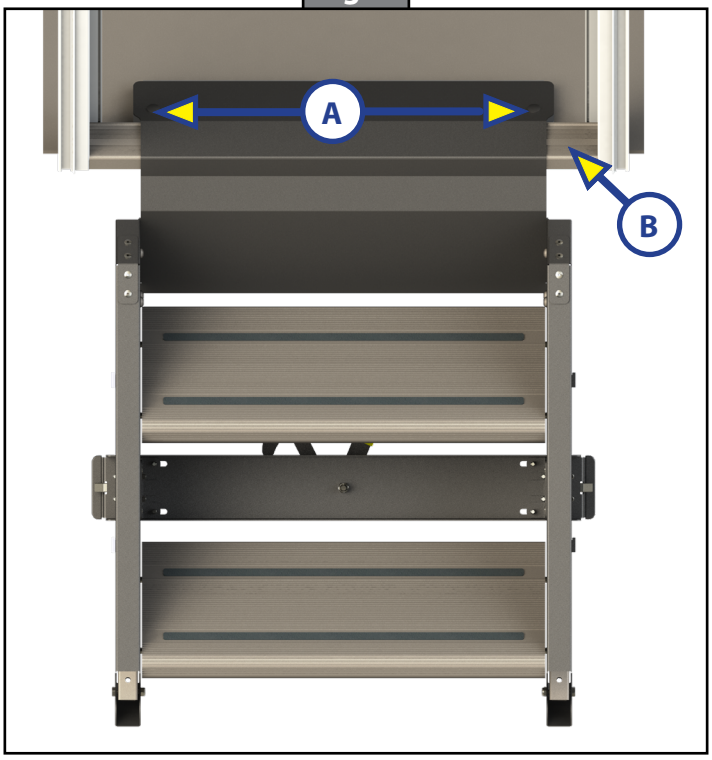
2. Verify with a tape measure that the assembly is centered in the doorframe.
3. Remove the two plastic caps from the alignment cover holes on the mounting plate (Fig. 2A).

⚠ 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.

4. With the step assembly still in the extended position, install two fasteners, either #10 - 1 ½" wood screws (wood floor) or #10 - 1 ½" self-tapping screws (laminate floor), into the mounting plate via the two access holes (Fig. 2A) located in the top of the mounting plate.
5. Once the two fasteners are inserted, carefully lift the step assembly into the upright, stored position. If the latching mechanism doesn't engage, it will need to be adjusted to operate properly. Have one person hold the step assembly from inside the trailer. Go to Adjust Transport Lock section.

Fig. 2



Adjust Transport Lock

⚠ 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.

1. If adjustment is required, loosen the three bolts (Fig. 3A) on both sides of the transport lock. This allows for side-to-side adjustment of the latch mechanism.
2. Once the latch mechanism is in the desired 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. 4A) to ensure the latch flanges do not scrape against the doorframe.

NOTE: To make further minor adjustments, it may be necessary to loosen the original two fasteners installed in the hinge plate. See Place Assembly Inside Doorframe section.

Fig. 3

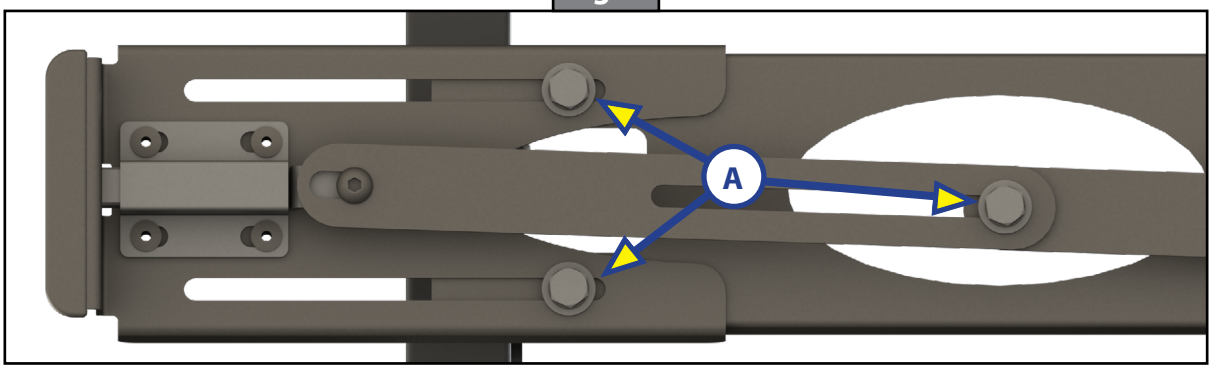
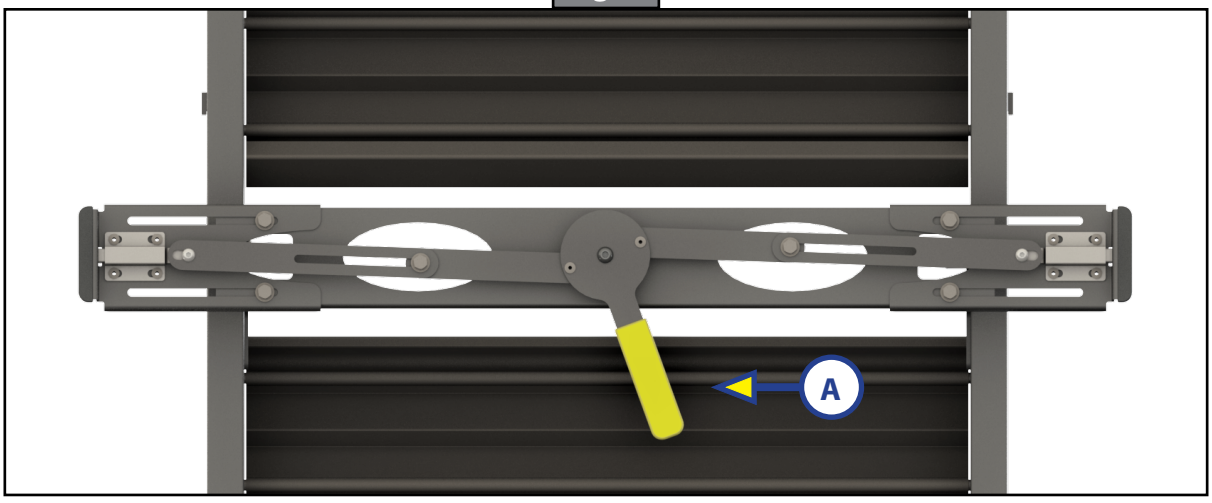


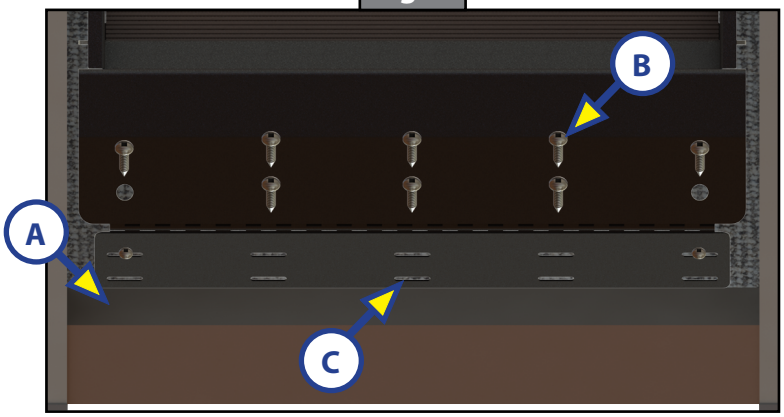
Fig. 4



Secure Hinge Plate

1. After adjusting the transport lock and with the step assembly in the upright stored position, secure the hinge plate (Fig. 5A) to the floor of the trailer using eight additional fasteners (Fig. 5B).
   - **A.** Depending on flooring material, use either #10 - 1 ½" wood screws (wood floor) or #10 - 1 ½" self-tapping screws (laminate floor).
   - **B.** If necessary, use the horizontal slots (Fig. 5C) to make additional small adjustments of the step assembly positioning in the doorway.
2. Extend the step assembly.
3. Reinsert the two provided plastic caps to cover the access holes in the mounting plate (Fig.2A).

Fig. 5



Operation

Release Steps

1. Disengage transport lock.
2. Firmly grasp and pull out the vertically stored SolidStep® and firmly rest it on the ground.
3. Adjust leg extensions as needed, see Leg Extension Adjustment section.

Secure Steps

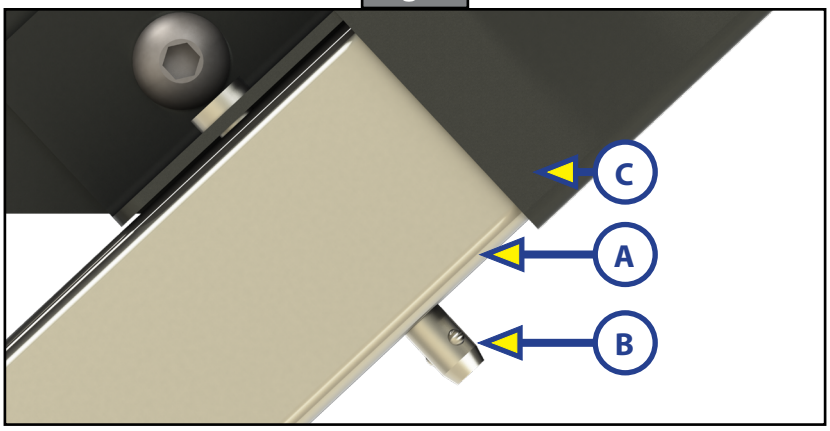
1. Retract leg extensions, if desired, see Leg Extension Adjustment section.
2. Lift up SolidStep® to its stored position and make sure the transport lock has been engaged.

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. 6A):
   - **A.** Remove the quick release clevis pin (Fig. 6B) from the tube and the slot in the angle.
   - **B.** Extend the inner leg (Fig. 6A) 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. 6A) into the tube and slot closest to where the inner leg and tube (Fig. 6C) meet.
2. To retract the inner leg (Fig. 6A):
   - **A.** Remove the quick release clevis pin (Fig. 6B) from the tube and slot.
   - **B.** Retract the inner leg.
   - **C.** Reinsert the quick release clevis pin in the tube and slot.

Fig. 6



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