Ramp Door
OEM Installation Manual

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System and Safety Information

The following information is intended to provide standard installation instructions for LCI Ramp Doors. Failure to adhere to the recommended installation procedures in this document may result in the voiding of the product warranty. For any alterations outside of the provided instructions in this document, please consult your LCI Representative.

⚠WARNING

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

⚠CAUTION

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

Weight Ratings

Ramp Door

A. Overall Capacity - 3000 lbs. for doors with 5 or more hinge leaves.
- 1600 lbs. for doors with less than 5 hinge leaves.

B. Maximum per wheel contact - 1000 lbs.

C. Speed Rating - The vehicle should not exceed 5 MPH while driving up the ramp.

Patio Door

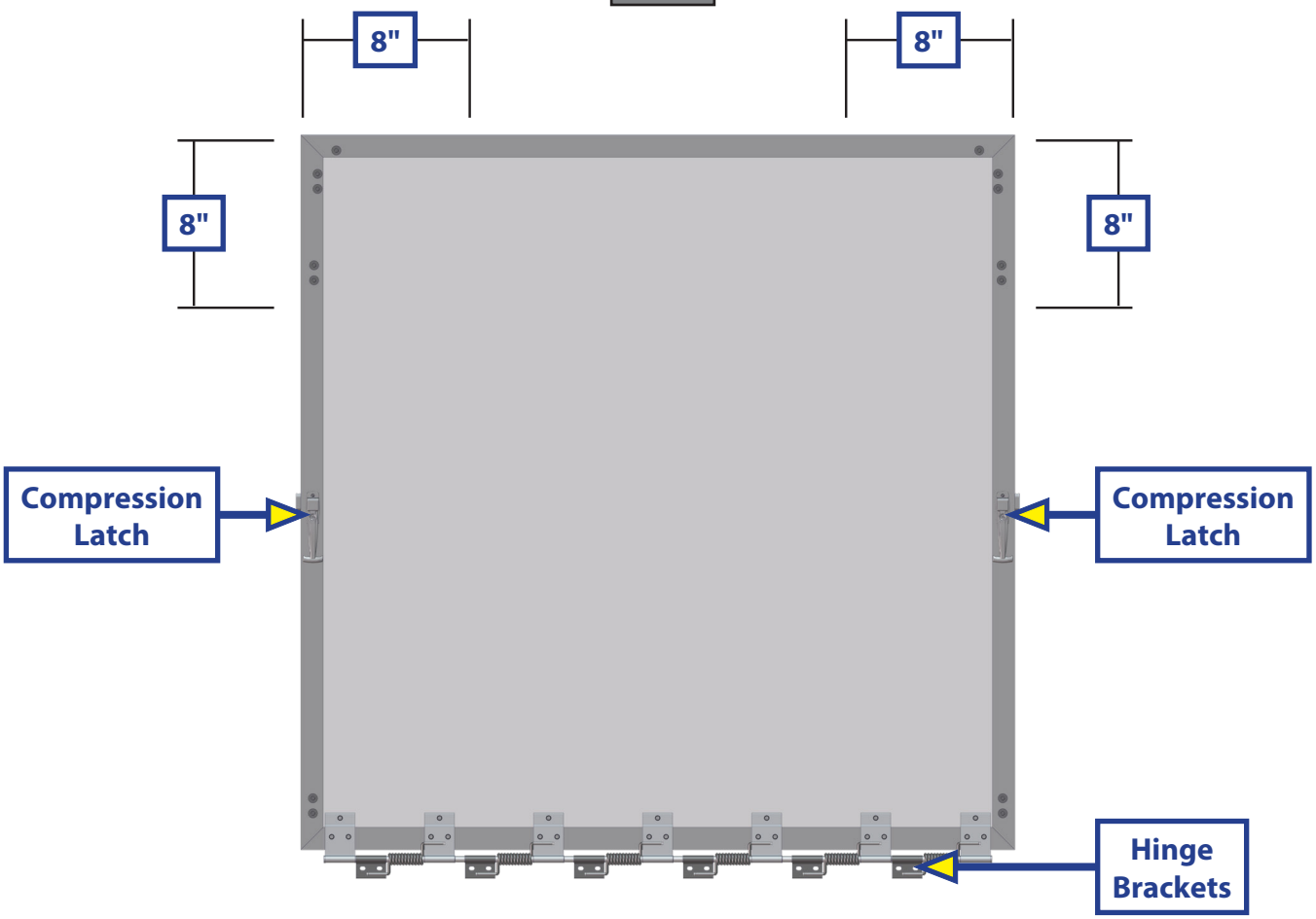
A. Overall Capacity - 1500 lbs. or 10 people.

NOTE: Stabilizer jacks must be used when the door is in the patio position.

Resources Required

- 1-3 People
- Impact Wrench
- Cordless or Electric Drill or Screw Gun
- Appropriate Drive Bits
- 3/16" Drill Bit
- 3/8" Drill Bit
- 3/4" Deep Well Socket
- 9/16" Box End Wrench
- Pan head, 3/8" thread diameter case hardened trilobular bolt with flat washer
- 3/8" Flat Washer
- Locking nut

Fig. 1



Installation

NOTE: Refer to the diagram in Fig. 1 while reading these instructions.

1. Verify the size of the door. Door "call" size is the measurement of the inner H-channel. The "call" size is based off of the rough opening size of the inner frame measurements less than ½" to ¾" in width and height.
   - **A.** For example: An 88" x 76" rough opening size will require a "call" size of 87 ¼" x 75 ⅜" door.
2. Install bulb sealant tape around back side of the H-channel. LCI recommends bulb ramp seal (Fig. 2). On the corners of the door, cut and shape the seal corner to the product for a better seal rather than creating a rounded edge.
3. Install the bumpers/stops (Fig. 3) on the top of the door. Ensure the bumper/stop/stabilizer jack is not within 8" of the corner (Fig. 1), as this will degrade the integrity of the door.

NOTE: Do not install any mechanism within 8" of the top corner of the door (Fig. 1).

4. Set the door in the wall opening so that the bottom edge sets flat on the frame and center the door in the opening. Should the door require a shim to get the desired height, ensure that the door is shimmed on both sides and the center.
5. Set the compression latch or latching mechanism for the door to hold it in place while the hinge is installed (Fig. 1).

Fig. 2

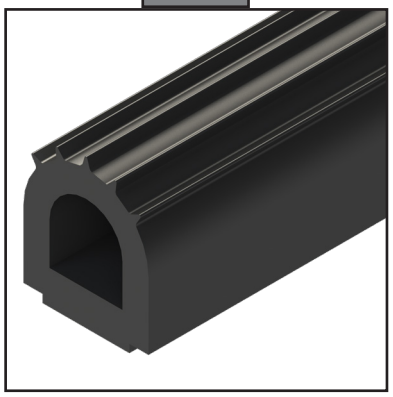
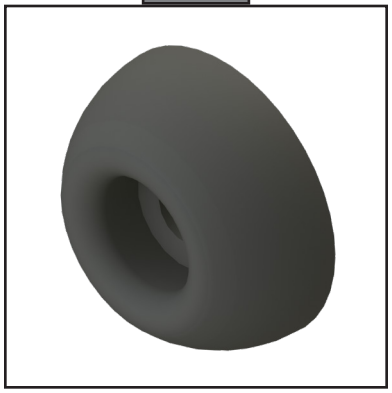


Fig. 3



6. Measure the hinge location on the door to the frame and ensure that it is even.
7. Using a 3⁄16" drill bit, drill a pilot hole for the bolts in the furthest hole of the left lower hinge bracket and the furthest hole of the right lower hinge bracket (Fig. 4).
8. Using a 3⁄8" drill bit, drill out the pilot holes (Fig 4).
9. Installing from the outside of the frame inward, place a 3⁄8" thread diameter, case hardened trilobular bolt (Fig. 6A) through each of the holes drilled in Step 8 (Fig. 5). Install 1 flat washer (Fig. 6B) between the bolt head and the hinge bracket, and 1 flat washer (Fig. 6B) between the frame and the nut (Fig. 6C).
10. Stabilize the nut (Fig. 6C) with a 9⁄16" box-end wrench and use an impact wrench with a 3⁄4" deep well socket to tighten the bolts (Fig. 6A).
11. Working from the outside of the frame inward, repeat Steps 7-10 for all midsection hinge brackets.

Fig. 4

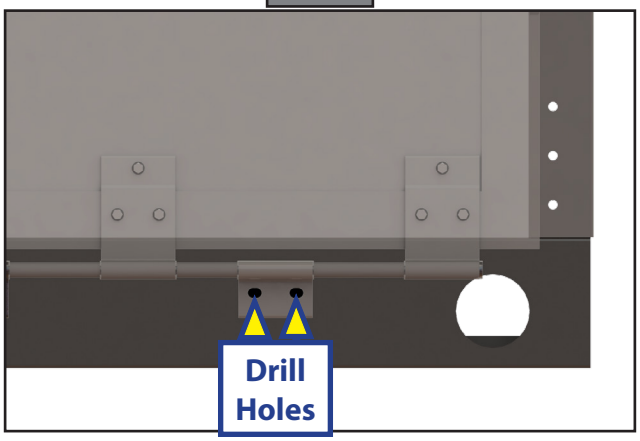


Fig. 5

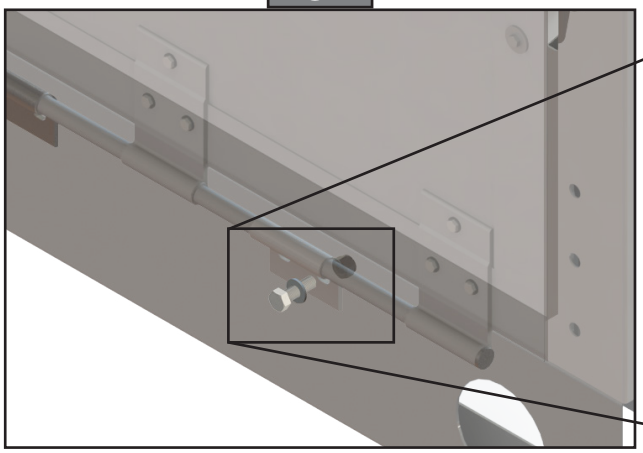
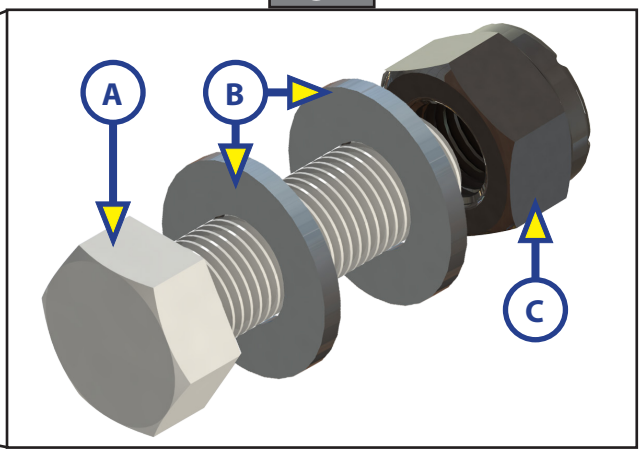


Fig. 6



NOTE: LCI recommends the use of a pan head, 3⁄8" thread diameter, case hardened trilobular bolt with a flat washer and flange nut for securing the hinge brackets of the ramp door. If self-tapping screws are used, LCI recommends at least the far left and far right lower hinge brackets be bolted.

12. Release the compression latches or latching mechanisms to open the ramp door and ensure functionality of the hinge.

NOTE: If a bar lock hasp is chosen, use two T-nuts in order to secure each hasp. This will maintain the structural integrity of the lock. Failure to comply may result in damage to the core when weight is applied.

13. Close the ramp door and set compression latches or latching mechanisms to lock the door in place.
14. In order to clean the door, use only an alcohol-based cleaner. Other chemicals and cleaners may result in the degradation of the seal and cause de-lamination to the door.

Notes

Please recycle all obsolete materials.

For all concerns or questions, please contact
Lippert Components, Inc.
Ph: (574) 537-8900 | Web: lippert.com | Email: customerservice@lci1.com

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