

DOORS

Purpose

This document provides the steps to remove, reinstall and align an RV entry door for motorized and towable units.

⚠ CAUTION

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

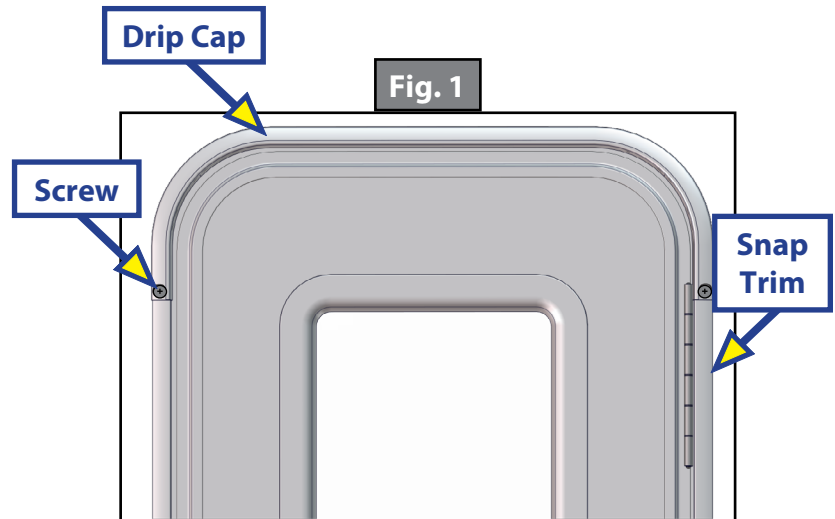
Required Resources

- 1-2 people, depending on task
- Cordless or electric drill or screw gun
- Appropriate drive bits
- Appropriate drill bits
- Utility or putty knife or a plastic scraper
- Caulk gun
- Gunnable sealant
- Putty tape or closed cell PVC foam tape
 - For a laminate wall: 1" wide, 1/8" maximum thickness.
 - For a stick and tin wall: 1" wide, 1/4" maximum thickness.
- #8 screws (quantity depends on size of the door) - length must be long enough to penetrate sidewall framing.
- #12 screws - length must be long enough to penetrate sidewall framing. (For motorized unit entry door only.)

NOTE: For wood frame construction, do not use self-tapping screws.

NOTE: After removing screws, replace with similar type and size screw. Screws are not provided in kit.

Shipping Block Kit	
Part Number	Description
709983	Door Shim Install/Alignment Kit



Preparation

Removal of Entry Door

1. Remove screws holding the drip cap onto the door and remove drip cap (Fig. 1).
2. If installed, remove snap trim on both left and right side of door (Fig. 1).
3. Remove all screws from outer frame.
4. Remove the threshold. (This is the small thin piece of trim on the floor that goes between entry door frame threshold and the unit's floor.)
5. Remove outer frame side anchor screws around latch and friction hinges, if installed.
 - See section for Interior Frame and Hinge Installation - Motorized Only.
 - See section for Controlled Motion (Friction) Hinge Installation.
 - See section for Strut Door Installation.

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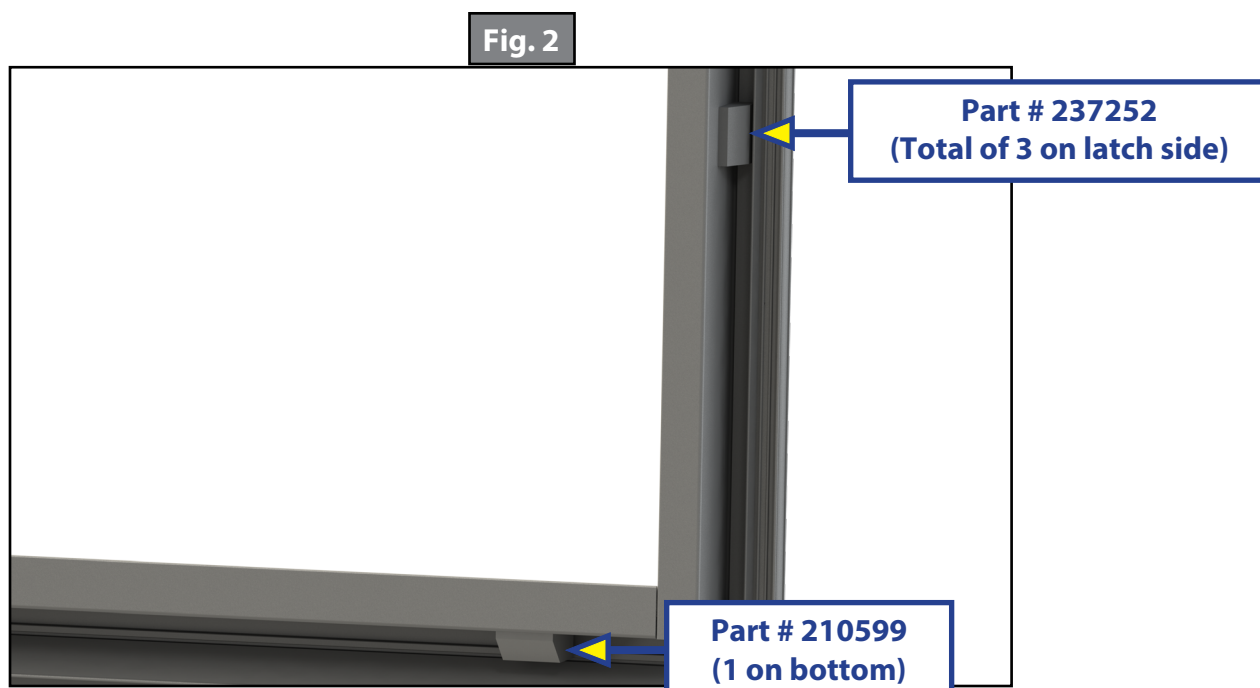
6. Using a utility or putty knife or a plastic scraper, carefully cut the caulk seal that goes between sidewall and outer frame.
7. From the exterior of the unit, open the door and pull outwards on the outer frame to break the outer frame flange seal that seals between the backside of the outer frame flange and the unit's sidewall.

NOTE: On stick and tin units, pay extra attention and take care when removing door. Do not let the outside metal skin come away from the wood frame.

8. Fully remove door from unit's rough opening.
9. Completely remove and clean off any remaining putty tape or caulk residue from outer frame and side wall.
10. When re-installing the door, make sure that three spacer blocks (Part #237252 of Kit #709983) are installed in the door on latch side between inner frame and outer frame at top, middle and bottom (Fig. 2). Also, make sure that one spacer block (Part #210599 of Kit #709983) is installed on the latch side along the very bottom of the door (Fig. 2).

NOTE: Use a little silicone to temporarily hold the bottom spacer block until the door is set.

11. Make sure that the door latch is fully latched while leaving the deadbolt disengaged.



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Installation

Exterior Frame Installation

Steps 1-8 of the installation must be performed with the door assembly in the closed position. Step 9 must be performed with the door assembly in the open position.

1. Install sealant tape around back side of the screw track frame. LCI recommends using putty tape or closed cell PVC foam tape:
 - For a laminate wall: 1" wide, 1/8" maximum thickness.
 - For a stick and tin wall: 1" wide, 1/4" maximum thickness.

NOTE: Excessive putty tape or foam tape in the plunger opening may restrict full engagement of the latching mechanism.

2. Make sure that the door is sealed along the bottom, either on the lip of the opening or the edge of the floor.

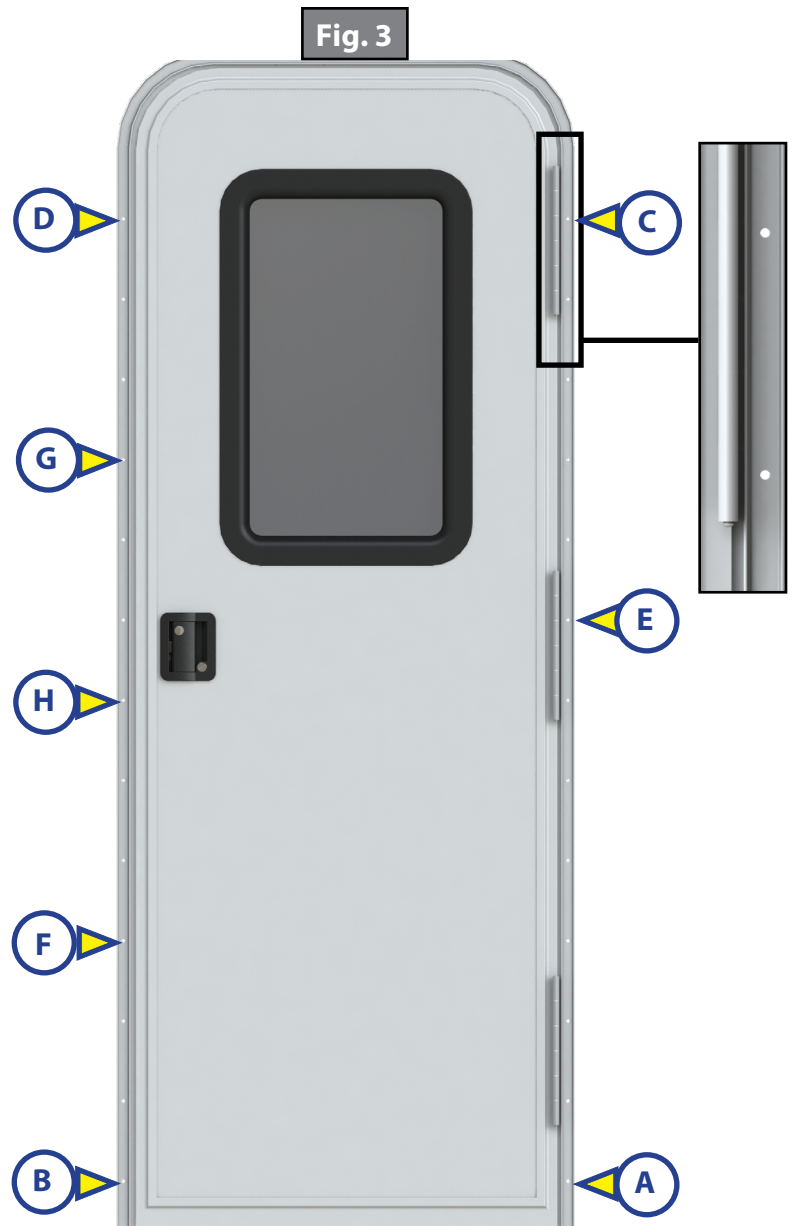
NOTE: The deadbolt should be disengaged at this point.

3. Set the door in the wall opening so that the bottom edge sets flat on the floor and the hinge side is flush against the opening.

NOTE: If the door is offset to the latch side, the plunger may hit the side wall framing and not engage completely.

4. Install a #8 screw in the hole nearest the bottom hinge (Fig. 3A). Install another #8 screw in the hole near the bottom of the latch side (Fig. 3B).

NOTE: After screws at locations A and B in Figure 3 are installed, verify the bottom of the door is flush with the bottom of the outer frame to make sure spacer blocks are present. If the door is hanging down, open the door carefully, making sure the door does not tip out, and reinstall a spacer block. Close the door carefully and continue with the installation.



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5. Install a #8 screw in the hole near top hinge (Fig. 3C).
6. Make sure that the door sets evenly in the frame and that the frame on the latch side maintains a 3/8" gap. Install a #8 screw into a hole near the top of the door on the latch side (Fig. 3D).
7. Install the next four #8 screws in alphabetical order (Fig. 3E-H).
8. Install #8 screws in remaining pre-drilled holes on the door frame.

NOTE: Each pre-drilled hole in the outer frame should be filled. Do not use additional screws.

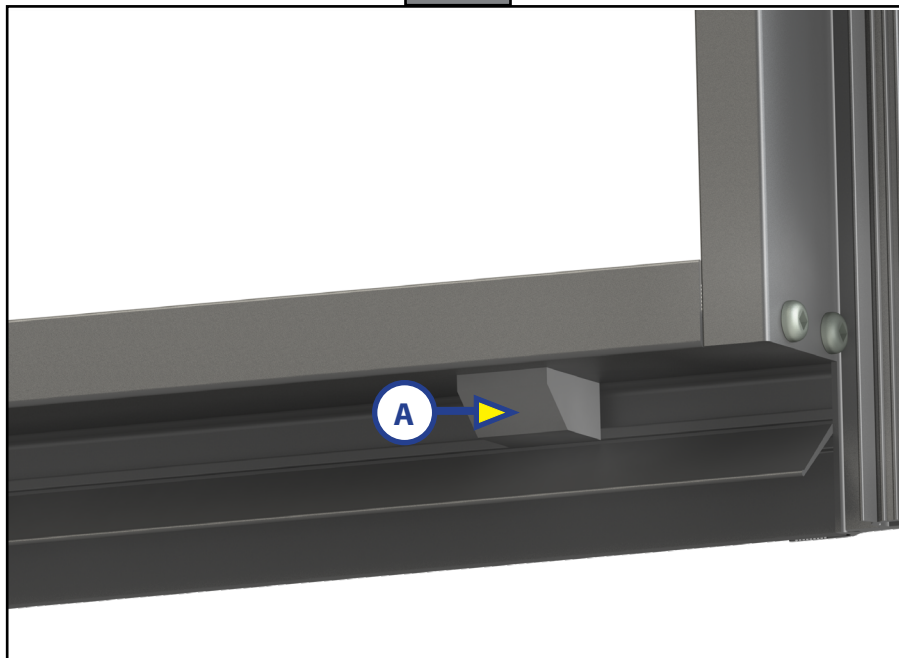
NOTE: Screws must be installed straight on the latch side of the door. Screws installed at an angle will cause the door frame to twist and may prevent the door from opening properly. This can also result in latch damage.

NOTE: On stick and tin units, install screws at the ridges of the metal siding first, then valleys.

9. Remove all spacer blocks on the entry door after the door is installed.

NOTE: Remember the spacer block (Fig. 4A) on the very bottom of the door.

Fig. 4



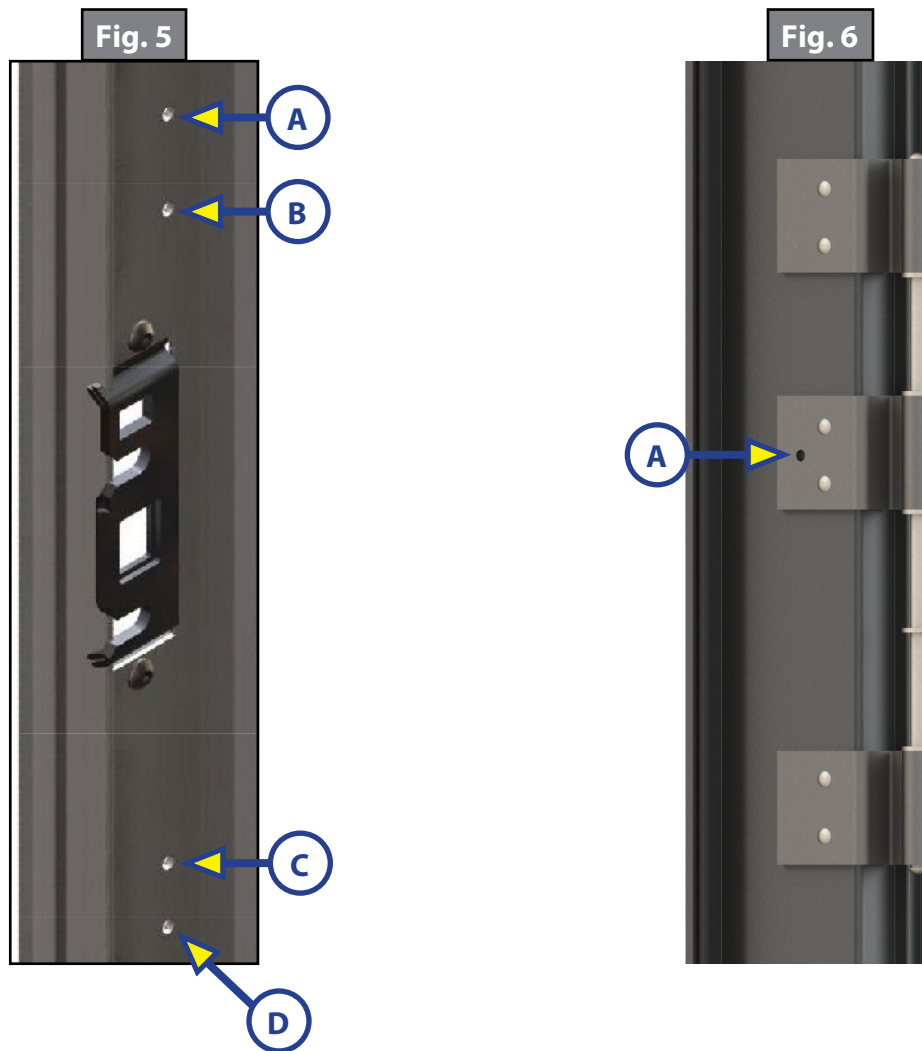
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Interior Frame and Hinge Installation - **Motorized Only**

NOTE: For doors with controlled motion (friction) hinges or struts, be sure to read those sections later in this manual.

1. With entry door open, install four #12 screws (Fig. 5A-D).
2. Install one #12 screw in each hinge on the third leaf (Fig. 6A). There are four hinges per door. Screw length must be long enough to penetrate sidewall framing.

NOTE: Figure 5 is the catch of the door, Figure 6 shows the hinges. The hinge leaves attached to the door are hidden for clarity. Entry door and screen door are also hidden for clarity.

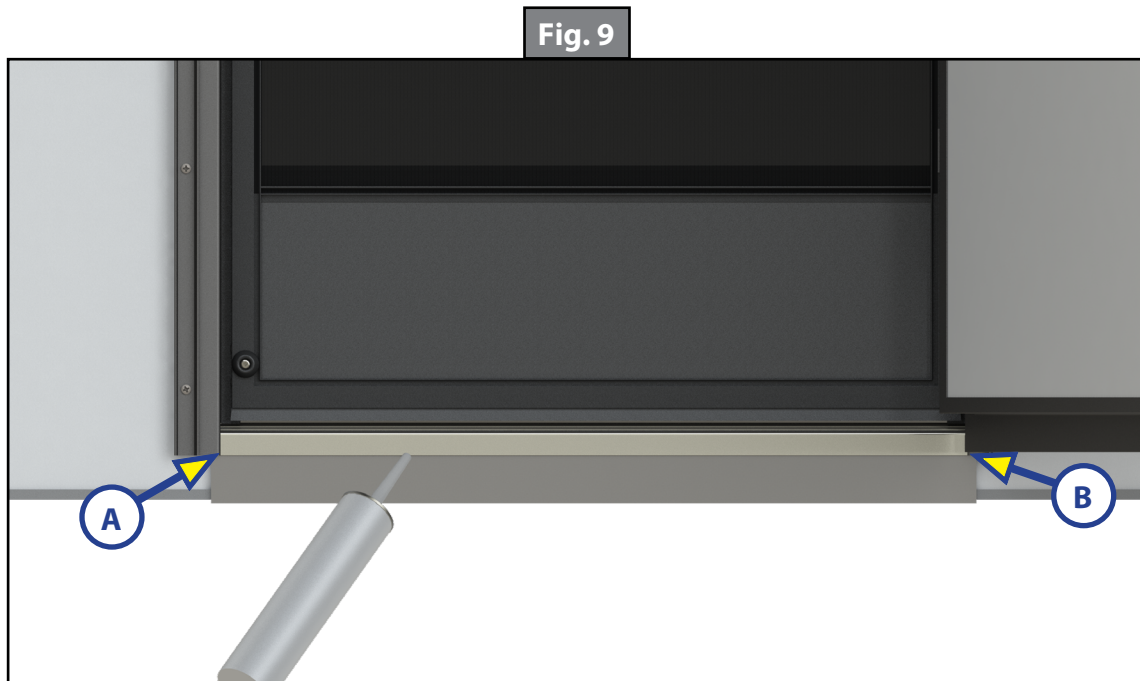
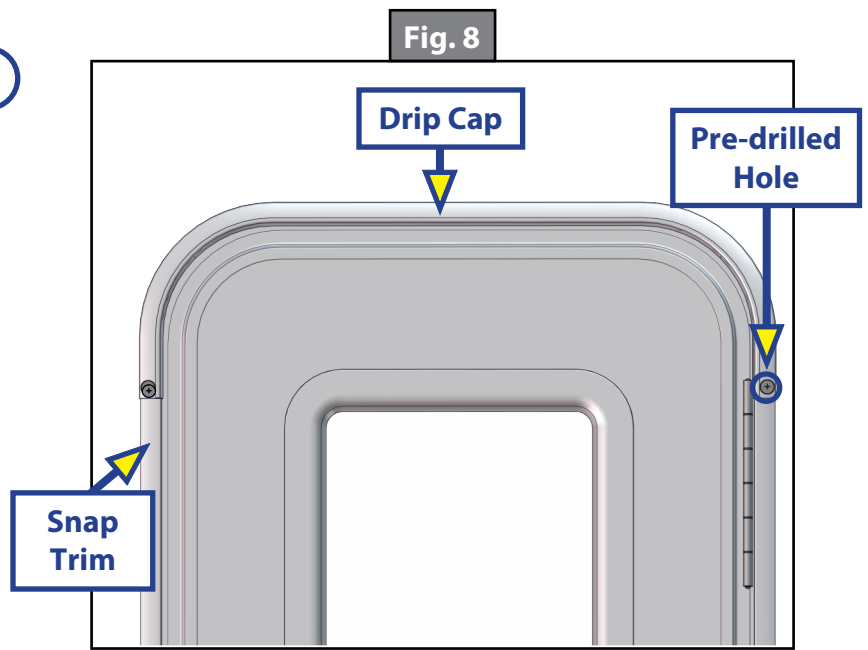
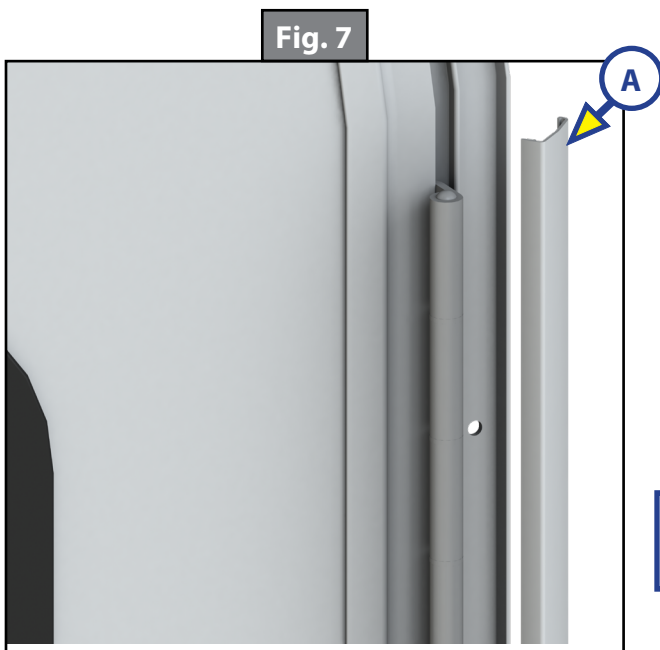


NOTE: After installing the door, minor adjustment of the screen door may be necessary to achieve proper operation.

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Snap Trim and Drip Cap Installation

1. If applicable, install snap trim (Fig. 7A). Snap trim is installed from the outside in. Match the long leg of the snap trim to the long leg of the door frame.
2. Install drip cap overlapping the snap trim (Fig. 8).
3. Secure with #8 screws in pre-drilled hole locations. Screw length must be long enough to penetrate sidewall framing.
4. Run a bead of gunnable sealant on the bottom of the threshold (Fig. 9) along the entire width of the door. Do not leave any seal voids at the corners (Fig. 9A and 9B).
5. Run a bead of gunnable sealant around the remaining edges of the door frame to completely weatherize the door.



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Controlled Motion (Friction) Hinge Installation

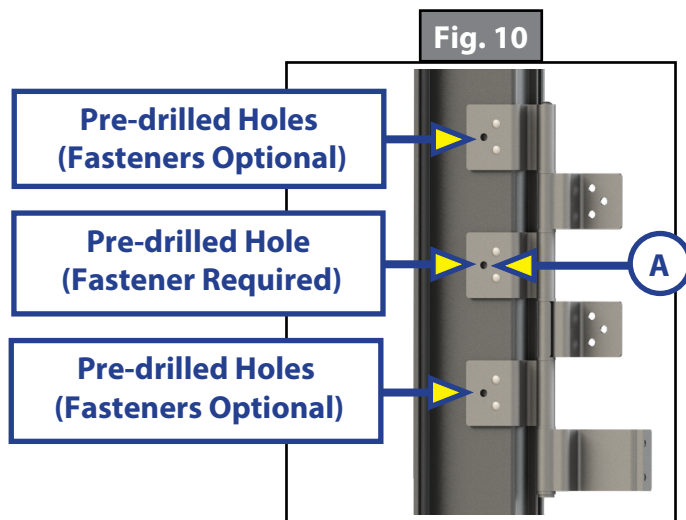
Install the controlled motion hinge as follows:

1. Secure the hinge leaf and door frame to the unit's wall with a #8 screw (Fig. 10A).

NOTE: Screw length must be long enough to penetrate the unit's wall framing.

NOTE: There will also be pre-drilled holes on the first and fifth leaf of the hinge for optional fastener installation.

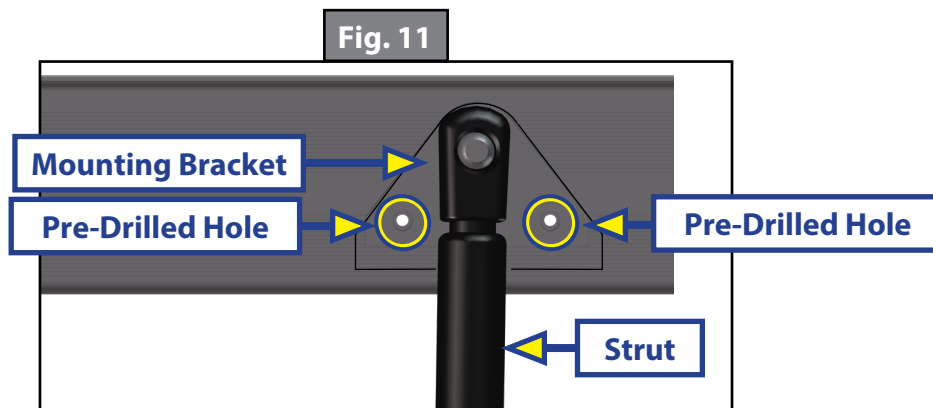
2. Optionally, repeat step 1 for the first and fifth hinge leaves on each hinge.
3. Repeat steps 1-2 on any remaining controlled motion hinges.



Strut Door Installation

1. Secure the strut's bracket (Fig. 11) to the unit's framing with two #8 screws.

NOTE: Screw length must be long enough to penetrate the unit's framing.



As a supplier of components to the RV industry, safety, education and customer satisfaction are our primary concerns. Should you have any questions, please do not hesitate to contact us at (574) 537-8900 or by email at customerservice@lci1.com. Self-help tips, technical documents, product videos and a training class schedule are available at lci1.com or by downloading the MyLCI app.