RV ENTRY DOOR HINGE REPLACEMENT

TI-260

DOORS

Purpose

This document provides the steps to replace 6-leaf door hinges on an RV entry door attached with either rivets or via swedging.

⚠ CAUTION

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

Replacing Hinges

Resources Required

- Cordless or electric drill or screw gun
- Appropriate drive bits
- Grinder with small disk
- Seven #10 - 16 x 1 ½" self-tapping screws
- Assistance of one helper
- Pin punch
- Non-permanent method of marking
- Hammer

Preparation

1. Remove screen door.

NOTE: To make supporting the screen door easier as it is removed, remove the screws securing it to the bottommost hinge first, then the screws in the other hinges.

2. With a helper holding the door so it does not fall and become damaged, remove the 6 screws from the two hinge leaves on the door side of the hinge (Fig. 1A).
3. Repeat with the other hinges on the door, and set the screws aside for reuse.
4. Remove the door, and set it aside in a safe location.
5. Using a non-permanent method of marking, make a mark at the top of each hinge leaf on the outer frame (Fig. 2).
6. Check if the hinges are attached to the outer frame with rivets or if they are swedged. Navigate to the appropriate section of this TI for instructions on removing the hinges.

Fig. 1

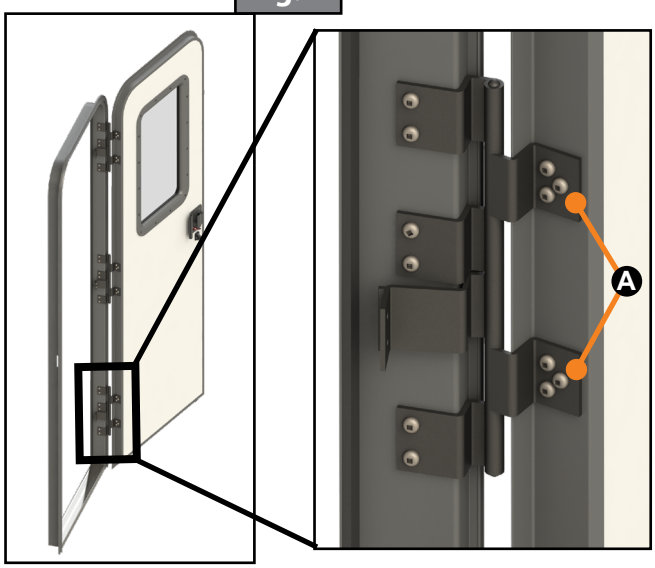
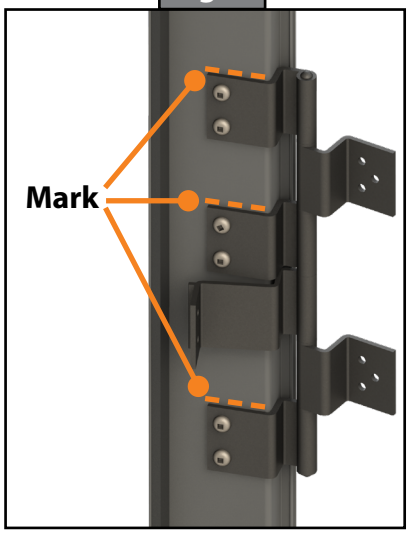


Fig. 2



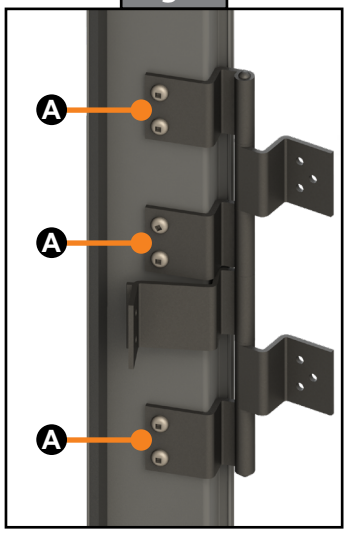
Removing Hinges Attached with Rivets

1. Grind off the heads of the six self-piercing rivets affixing the hinge leaves to the frame (Fig. 3A).

NOTE: Take care to not damage the frame while grinding.

2. Using a hammer and pin punch, punch the rivet stubs through the hinge and frame.
3. Pull off old hinge.
4. Repeat steps 1-3 for the other hinges as needed.
5. Proceed to the "Installing New Hinges" section of this TI.

Fig. 3



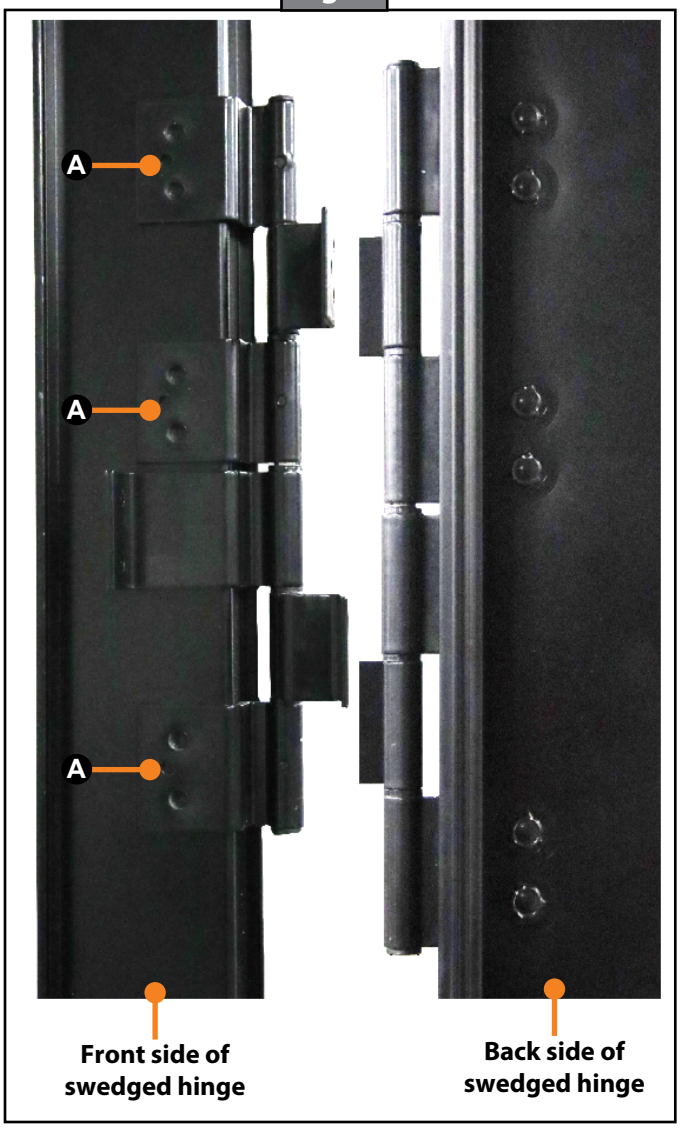
Removing Swedged Hinges

1. Using a 3⁄16" drill bit, drill out each swedge attaching the hinge to the frame (Fig. 4A).
2. Tap the hinge leaf with a hammer to release it. Take care to not hit the frame.

NOTE: Since the hinges are being replaced, there is no need to be careful tapping the hinge.

3. Pull off old hinge.
4. Repeat steps 1-3 for the other hinges as needed.
5. Proceed to the "Installing New Hinges" section of this TI.

Fig. 4



Installing New Hinges

1. Using a 3⁄16" bit, drill two holes in each frame-side hinge leaf of the new hinge for a total of six holes across all three hinge leaves. These holes should be ¾" from the edge of the leaf, and ¼" from the top and bottom of the leaf, respectively (Fig 5).
2. Line up the top of each of the frame side hinge leaves with marks made on the outer frame (Fig. 6).
3. Hold the hinge in place by installing a #10 - 16 x 1 ½"self-tapping screw through the center hole of the center hinge leaf (Fig. 6A).
4. Install six #10 - 16 x 1 ½" self-tapping screws; two per hinge leaf at each of the pre-drilled holes (Fig. 7A).
5. Repeat steps 1-4 as needed for the other hinges.

Fig. 5

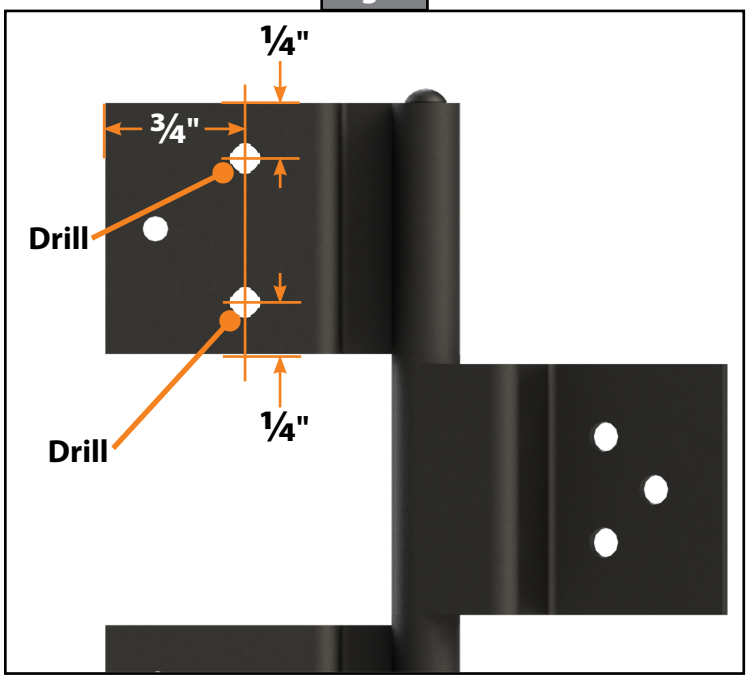


Fig. 6

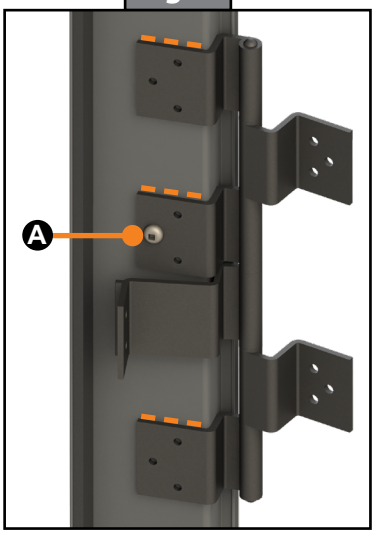
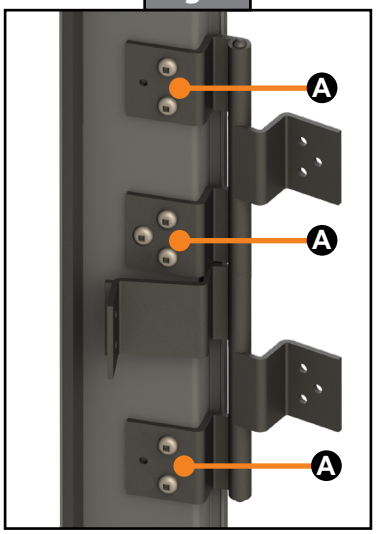


Fig. 7



Reattaching the Door

1. With a helper to hold the door, align the holes on the door with the holes on the door side hinge leaves.
2. Install one of the screws set aside from earlier on each hinge leaf of each hinge into the door. (Fig. 8A). Open and close the door several times to make sure it is flush with the bottom of the frame and doesn't hit the top of it.
3. After confirming the door opens and shuts properly, reinstall the remaining screws into the hinge leaves and door (Fig. 9A).
4. Reinstall screen door.

Fig. 8

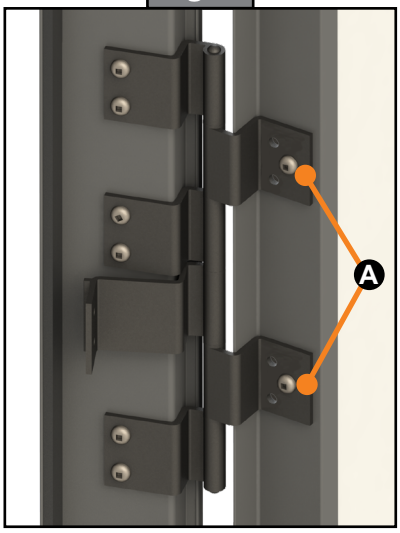


Fig. 9

