

Attachment Methods

There are two acceptable methods for attachment to the structure: C-clip attachment and Z-clip attachment. Refer to the contract-specific Shop Drawing and the **RTN-3020 Series Mounting Structure Placement and Verification Quick Guide (DD5638338)**.

C-Clip Mounting Style

Clip Attachment

- 1. Level the C-clips according to the contract-specific Shop Drawing and their relation to the other clips. Refer to **Figure 1**.
- 2. Place a seismic screw in one of the bottom two holes. The upper hole provides the clip with symmetry but is not used for attachment. Tighten the screw through the C-clip. Refer to **Figure 2**.

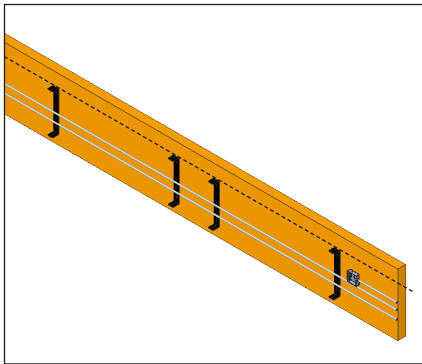


Figure 1: C-Clip Alignment

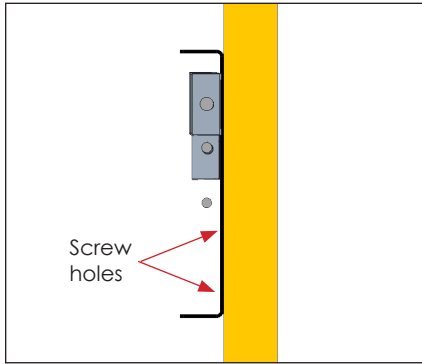


Figure 2: C-Clip Detail

Standard Section Attachment

- 1. Lift the display sections from the shipping crate using only the supplied lift eyes. A spreader beam is recommended when lifting but is required when ProRail® steel is attached. Refer to **Figure 3**, **Figure 4** and the **RTN-3020 Series Section Crate Handling Quick Guide (DD5638339)** for details.

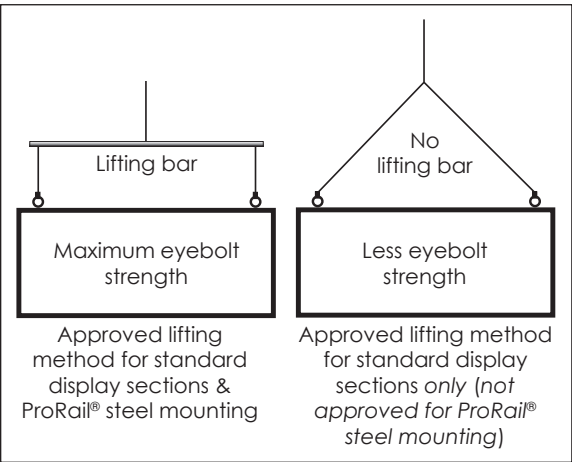


Figure 3: Lift Display

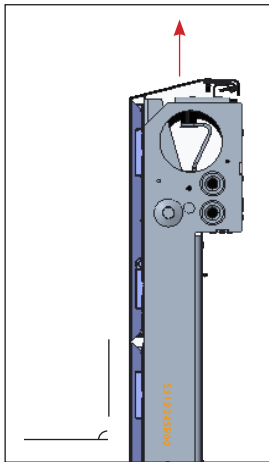


Figure 4: Lift Angle

Note: Do not set sections on the ground.

- 2. Once the clips are level and secure, slide the display onto the clips through the gap in the chassis. Refer to **Figure 5**.
- 3. Refer to the contract-specific Shop Drawing to determine the Z-axis depth. Measure from the front flange of the chassis to the front flange of each C-clip. Refer to **Figure 6**.

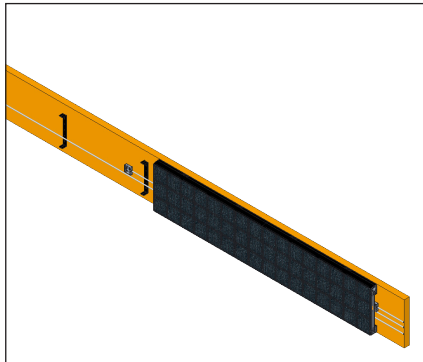


Figure 5: Slide Display Section onto C-Clips

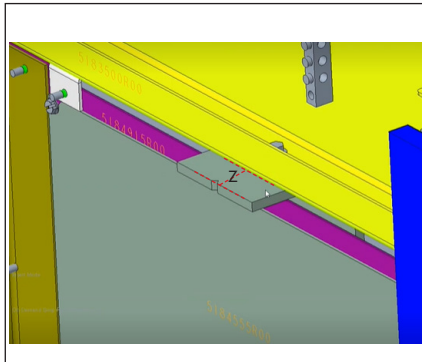


Figure 6: Z-Axis Depth

- 4. Examine the lower end of the C-clip that is cradling the bottom of the panel. If necessary, place shim tape in the gap between the C-clip and the display. Refer to **Figure 7**.
- 5. Screw through the bottom of the C-clip into the display for attachment.
- 6. Repeat **Steps 2-5** for each display section.
- 7. Remove the display modules from the end sections to access the interconnect location.
- 8. Once the cabinets have been placed, secure the horizontal interconnect points by inserting one M12 bolt from the right side of the cabinet to the left side of the cabinet. Refer to **Figure 8**.

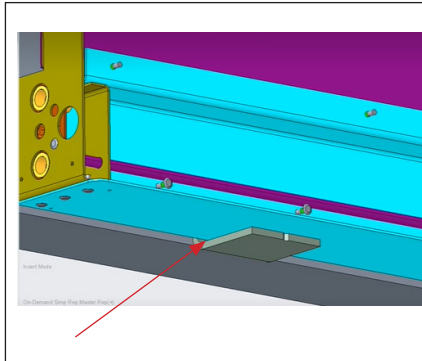


Figure 7: Shim Gap Between C-Clip and Display

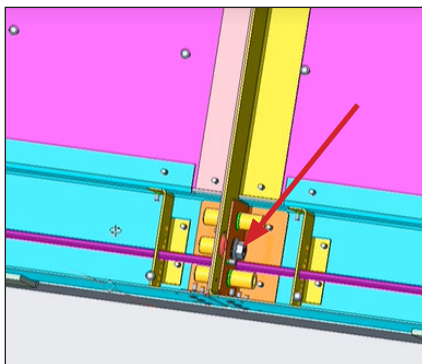


Figure 8: Interconnect Bolt

Z-Clip Mounting Style

Clip Attachment

- 1. Ensure the upper wall clips are plumb and level according to the contract-specific Shop Drawing. Refer to **Figure 9**.

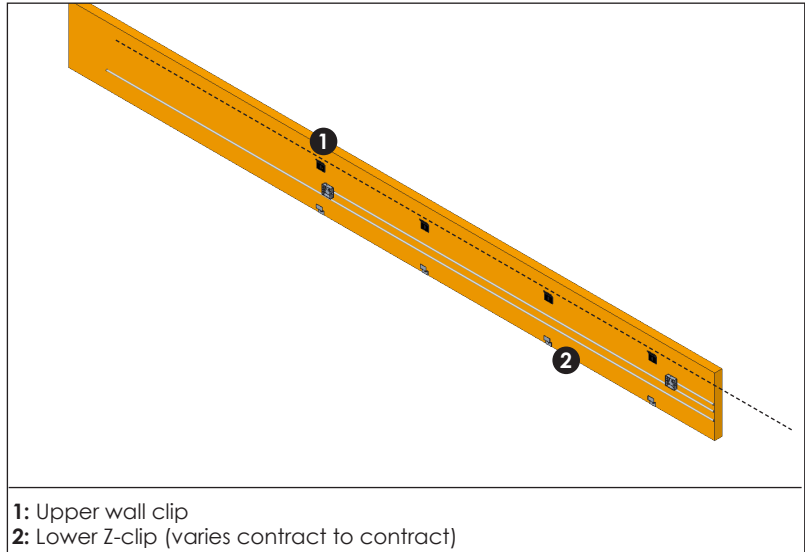


Figure 9: Plumb & Level Upper Wall Clips

- 2. Verify the lower Z-clips are installed per the contract-specific Shop Drawing. Refer to **Figure 9**.

Standard Section Installation

- 1. Release the beverage shroud latches by rotating them counterclockwise with the 5/16" hex security bit (Daktronics part number TH-1170) supplied in the toolkit to release the latches. Refer to **Figure 10**.
- 2. Rotate the beverage shroud upward to open the shroud. Refer to **Figure 11**.

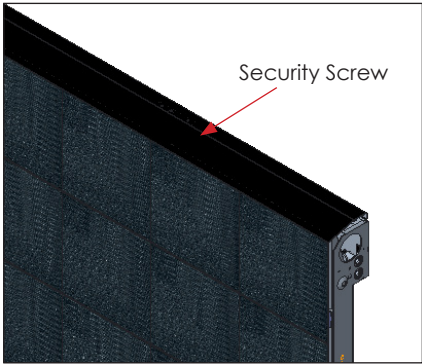


Figure 10: Closed Beverage Shroud

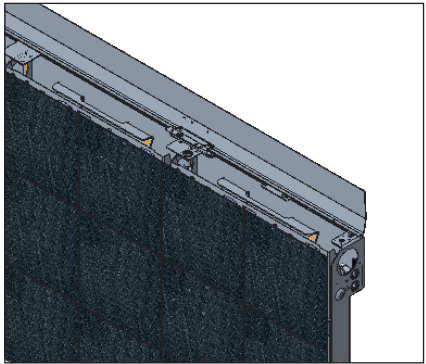


Figure 11: Open Beverage Shroud

3. Lift the display sections from the shipping crate using only the supplied lift eyes. A spreader beam is recommended when lifting but is required when ProRail® steel is attached. Refer to **Figure 3**, **Figure 4**, and the **RTN-3020 Series Section Crate Handling Quick Guide (DD5638339)** for details. Refer to **Figure 4**.

Note: Do not set sections on the ground.

4. Use the rear section clips to mount the display section directly to a non-combustible wall surface. Refer to **Figure 12** and **Figure 13**. Ensure the section sits completely in the upper wall clips.

Note: Clip placement varies by contract and may differ from what is shown in **Figure 12**.



Figure 12: Rear Section Clips

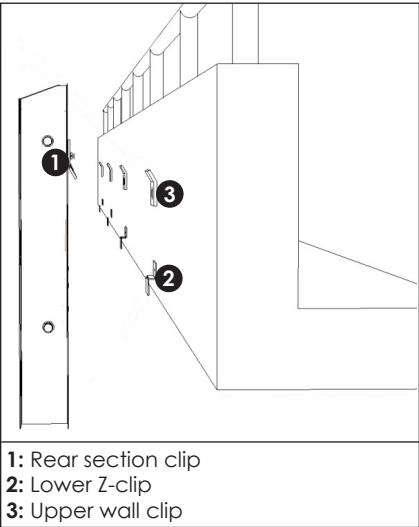


Figure 13: Mount Display to Wall

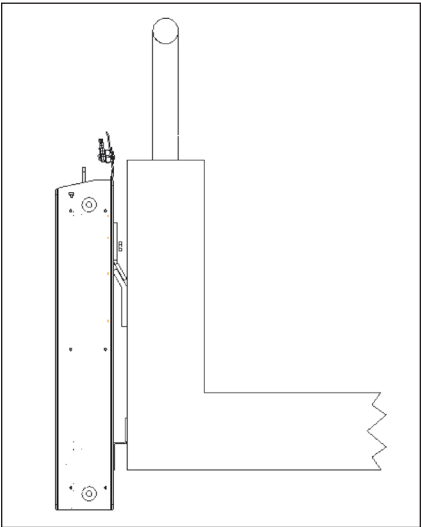


Figure 14: Display Attached to Wall

5. Ensure the section is plumb, level, and parallel to the wall. The alignment of the first section determines the alignment of the entire display. Refer to **Figure 14**.

Note: Remove the lift eyes from the top perimeter before closing the beverage shroud.

6. Repeat **Steps 1-5** to hang the next section. Ensure the sections are flush to the adjoining section in all planes. Follow the steps in **Wing Section Installation (p.2)** to install a wing section.
7. Install two stitch bolts (#HC-3829060) through the right perimeter into the adjacent cabinet. Remove the modules or the module pan entirely to access the stitch locations. Refer to **Figure 15**.

Note: Section-to-section seam tolerance should be $\pm 5\%$ of the pixel pitch. Pixel pitch = 15 mm, Seam tolerance = $\pm .75$ mm (.030")

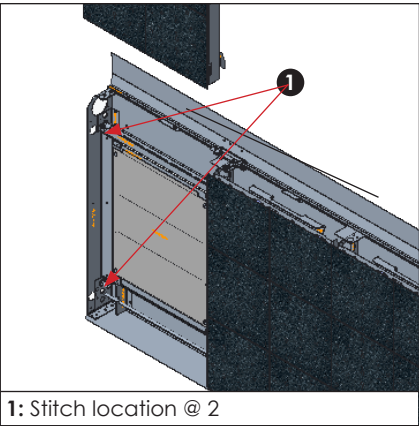


Figure 15: Interconnect Sections

8. Attach the display to the lower Z-clips for uplift protection. The modules may need to be removed from the front to attach the display.

Note: This varies from contract to contract. Refer to the contract-specific Shop Drawing for further instructions.

9. Close the beverage shroud and use the beverage shroud latches to secure the shroud.

Border Installation

Attach the borders with the supplied self-tapping screws (#HC-1778) if necessary. Refer to the contract-specific Shop Drawing for proper placement and to the **RTN-3020 Series Border Installation Quick Guide (DD5638344)** for installation instructions.

Wing Section Installation

1. Open the wing beverage shroud and adjacent main standard sections' beverage shrouds. Refer to **Figure 16**.

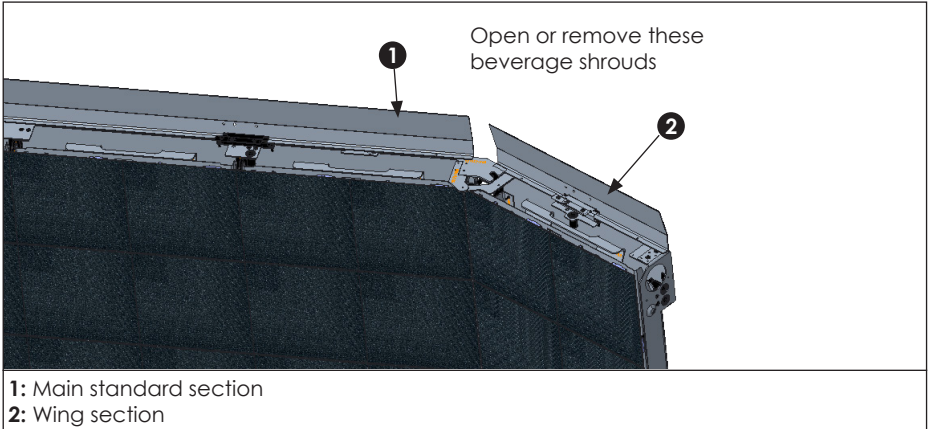


Figure 16: Open Beverage Shrouds

2. Attach the top pivot bracket and bottom pivot bracket to the main section with supplied TEK screws (#HC-1530) in provided pilot holes. Refer to **Figure 17**.

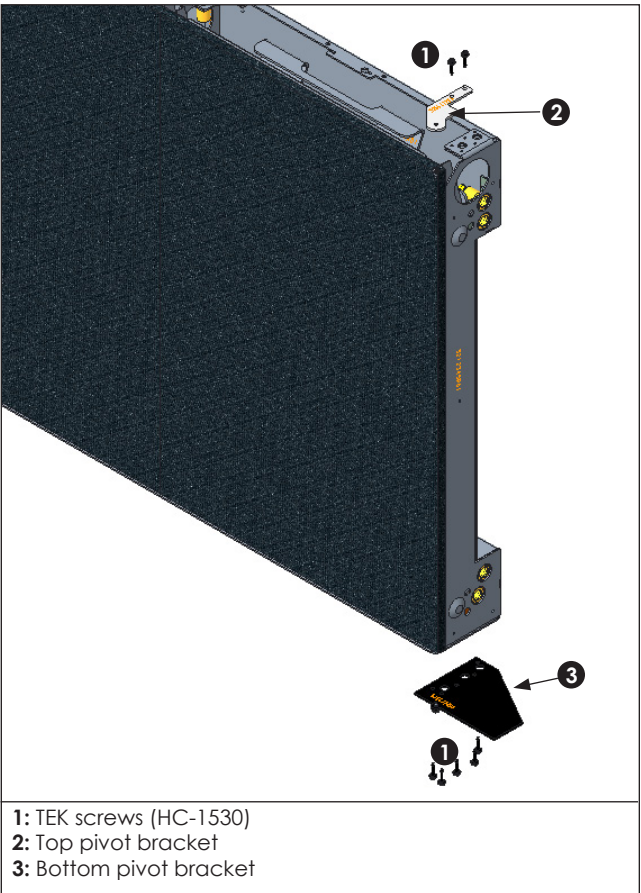


Figure 17: Attach Pivot Brackets

3. Attach the top offset pivot bracket to the wing section with supplied TEK screws (#HC-1530). Refer to **Figure 18** and **Figure 19**.

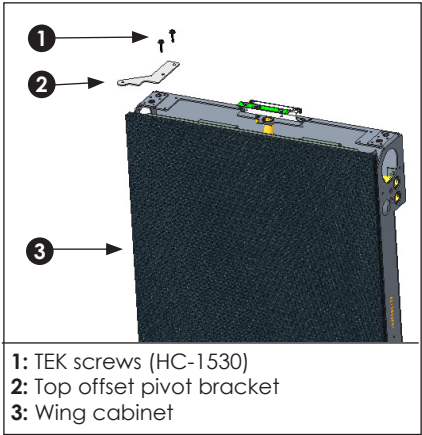


Figure 18: Top Offset Pivot Bracket

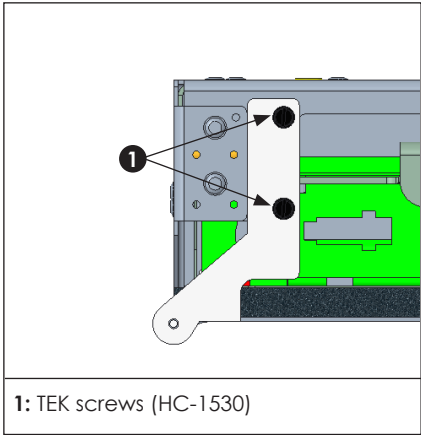


Figure 19: Top Offset Pivot Bracket (Top View Detail)

4. Bring the wing section next to the main cabinet sections. Install a screw (#HC-1186) up through the bottom pivot bracket into the bottom perimeter of the wing section. Refer to **Figure 20**.
5. Align the top of the wing section with the main section and install a screw (#HC-1186) through the top pivot bracket into the offset pivot bracket. Refer to **Figure 20**.

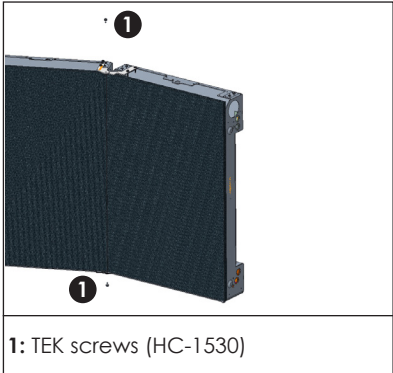


Figure 20: Install HC-1186 Screws

The wing section is now free to rotate. If the wing section does not rotate, ensure the side section stitch bolts to the left of the wing section are removed.

6. Place the top wing bracket on top of the assembled wing connection and secure into the main cabinet. Refer to **Figure 21**.

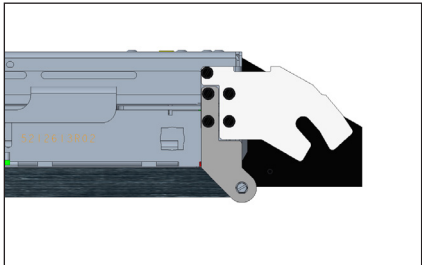


Figure 21: Top Wing Bracket

7. Set the wing at the necessary angle to engage the left and right sections. Refer to **Figure 22**.

The hinge adds a gap (seam) between the module columns, which is necessary for top-access module removal via the module pan sliders.

8. Once the desired angle is achieved, use the provided jig to mark pilot hole locations for installing top and bottom TEK screws to lock the angle in place. Place the jig over the screw and align the jig to the section's face and perimeter. Pilot holes should be drilled to 0.141" diameter or smaller. Refer to **Figure 23** and **Figure 24**.

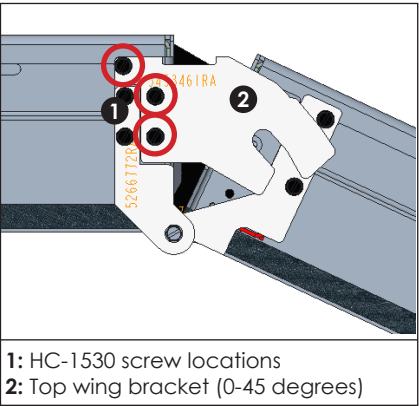


Figure 22: Set Wing Angle

Note: Use a screwdriver or drill bit to align bracket to face.

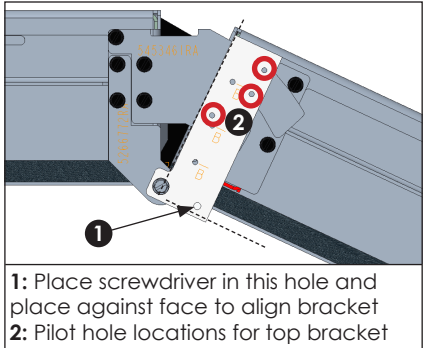


Figure 23: Jig Placement and Pilot Hole Locations (Top)

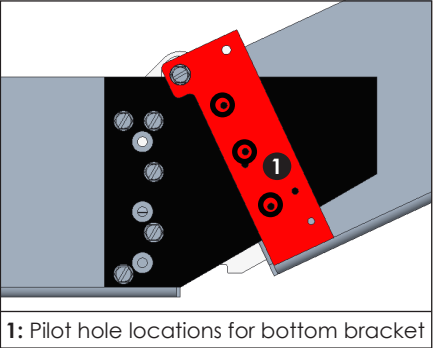


Figure 24: Jig Placement and Pilot Hole Locations (Bottom)

9. Install TEK screws (#HC-1530) through the upper and lower wing brackets into the vertical perimeter of the wing to keep the wing from rotating. Refer to **Figure 25** and **Figure 26**.

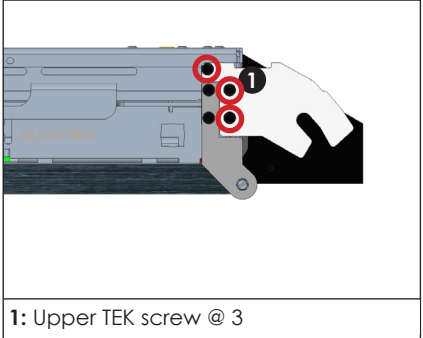


Figure 25: Install Upper TEK Screws

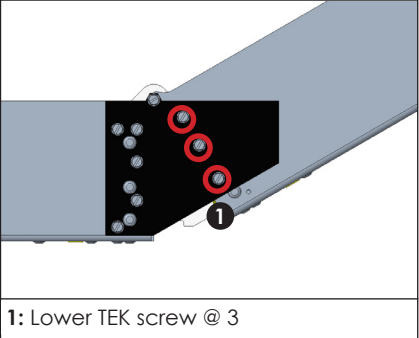


Figure 26: Install Lower TEK Screws

10. Loosen and remove the upper hinge after all TEK screws are tightened down. The hinge needs to be removed to allow the beverage shrouds to close completely. Refer to **Figure 27** and **Figure 28**.

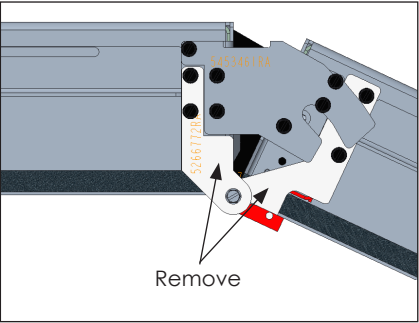


Figure 27: Remove Upper Hinge

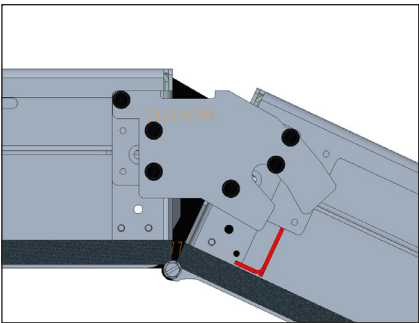


Figure 28: Upper Hinge Removed

11. Close and secure the beverage shrouds.