

SHROUD INSTALLATION INSTRUCTIONS

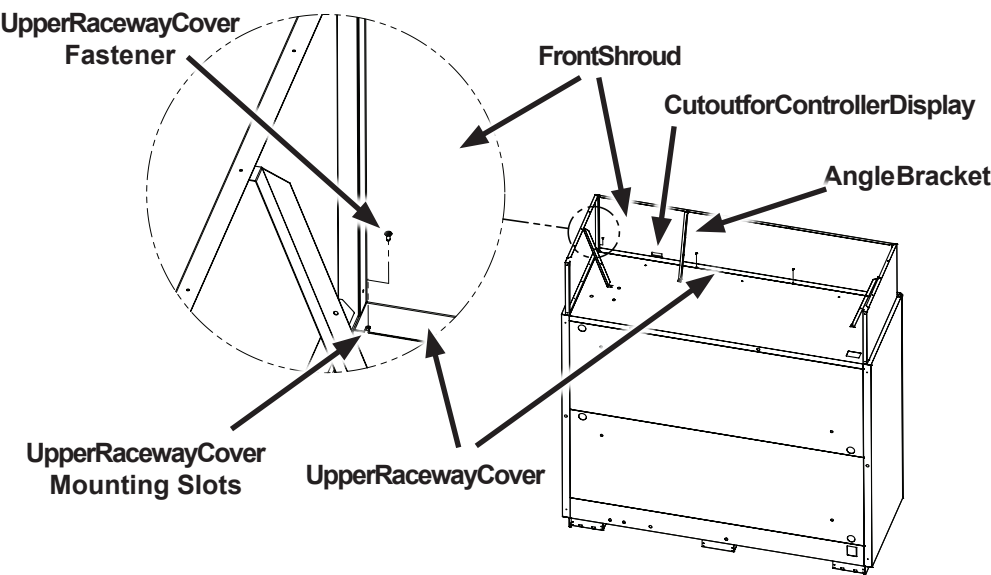
Standard Shroud Assembly for Highlight Merchandiser®

For proper shroud installation on Highlight Merchandiser®, start with the front shroud. This will help determine the correct position of the side shrouds.

FRONT SHROUD ASSEMBLY

- 1. Loosen fasteners on upper raceway cover.
- 2. Position front shroud over upper raceway cover mounting slots.
- 3. Attach front shroud to upper raceway cover by tightening the same fasteners that were loosened in step 1.
- 4. Install angle brackets* to support the front shroud. The brackets will match up with holes on top of the shroud.
- 5. If applicable, position the electrical box so the controller display is clearly visible through the cutout in the front shroud. Secure the electrical box with the fasteners that mounted it to the case for shipping.

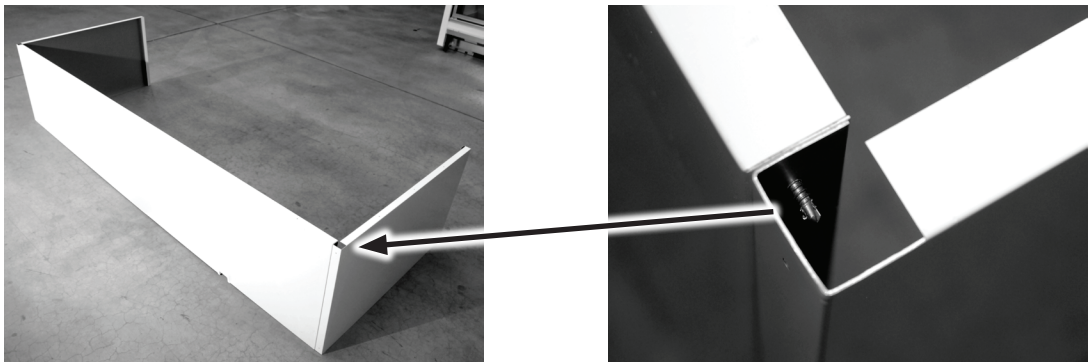
**No angle brackets on 5" tall shrouds; all taller shrouds receive angle brackets. See table for quantity.*



Case Size	Angle Brackets
1-Door	None
2-Door	None
3-Door	1 Bracket
4-Door	2 Brackets
5-Door	3 Brackets
6-Door	3 Brackets

SIDE SHROUD ASSEMBLY

- 1. Position side shroud perpendicular to the front shroud, on top of the end panel.
- 2. First, fasten the side shroud to the front shroud to ensure tight fit. Then, fasten the side shroud to the end panel using self-tapping screws.
- 3. Install 1 angle bracket to support the side shroud. The bracket will match up with a hole on top of the shroud.
- 4. Repeat steps 1-3 on top of the opposite end panel.



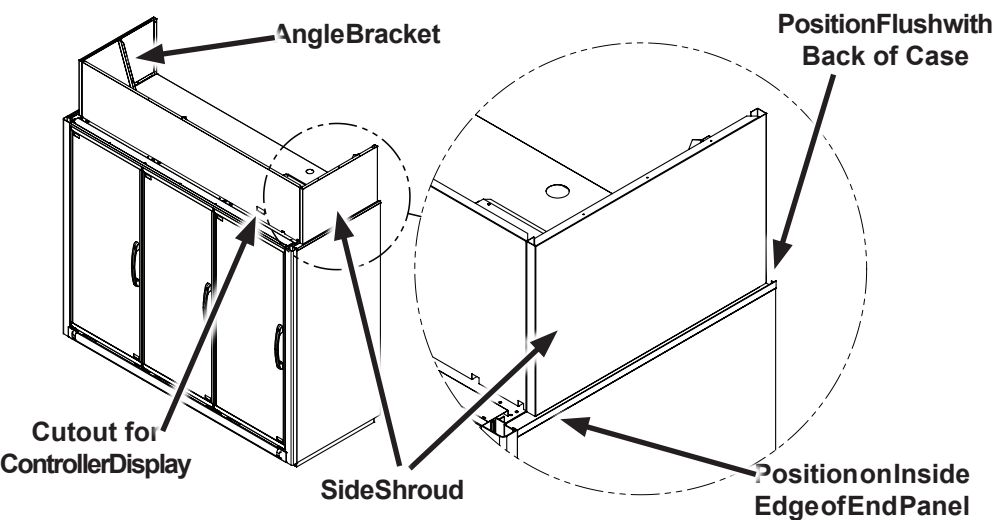
SHROUD INSTALLATION INSTRUCTIONS

Standard Shroud Assembly for Crystal Merchandiser® or Reveal Merchandiser®

For proper shroud installation on Crystal Merchandiser® or Reveal Merchandiser®, start with the side shrouds. This will help determine the correct position of the front shroud.

SIDE SHROUD ASSEMBLY

- 1. Position side shroud on top of the end panel, flush with the back of the case and on the inside edge of the end panel (see illustration).
- 2. Fasten the side shroud to the end panel using self-tapping screws.
- 3. Install 1 angle bracket to support the side shroud. The bracket will match up with a hole on top of the shroud.
- 4. Repeat steps 1-3 on top of the opposite end panel.

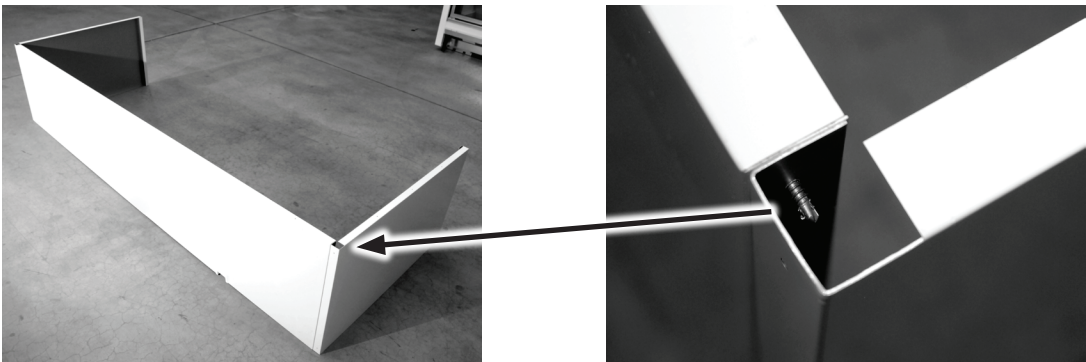


Case Size	Angle Brackets
1-Door	None
2-Door	None
3-Door	1 Bracket
4-Door	2 Brackets
5-Door	3 Brackets
6-Door	3 Brackets
4' Open	None
6' Open	1 Bracket
8' Open	2 Brackets
12' Open	3 Brackets

FRONT SHROUD ASSEMBLY

- 1. Position front shroud perpendicular to the side shrouds (parallel to the front of the case). Front shroud must be straight and even between the side shrouds. Note: Front shroud should be set 2" behind top trim piece.
- 2. First, fasten the front shroud to the side shroud to ensure tight fit. Then, fasten front shroud to case roof using self-tapping screws.
- 3. Install angle brackets* to support the front shroud. The brackets will match up with holes on top of the shroud.
- 4. If applicable, position the electrical box so the controller display is clearly visible through the cutout in the front shroud. Secure the electrical box with the fasteners that mounted it to the case for shipping.

*No angle brackets on 5" tall shrouds; all taller shrouds receive angle brackets. See table for quantity.

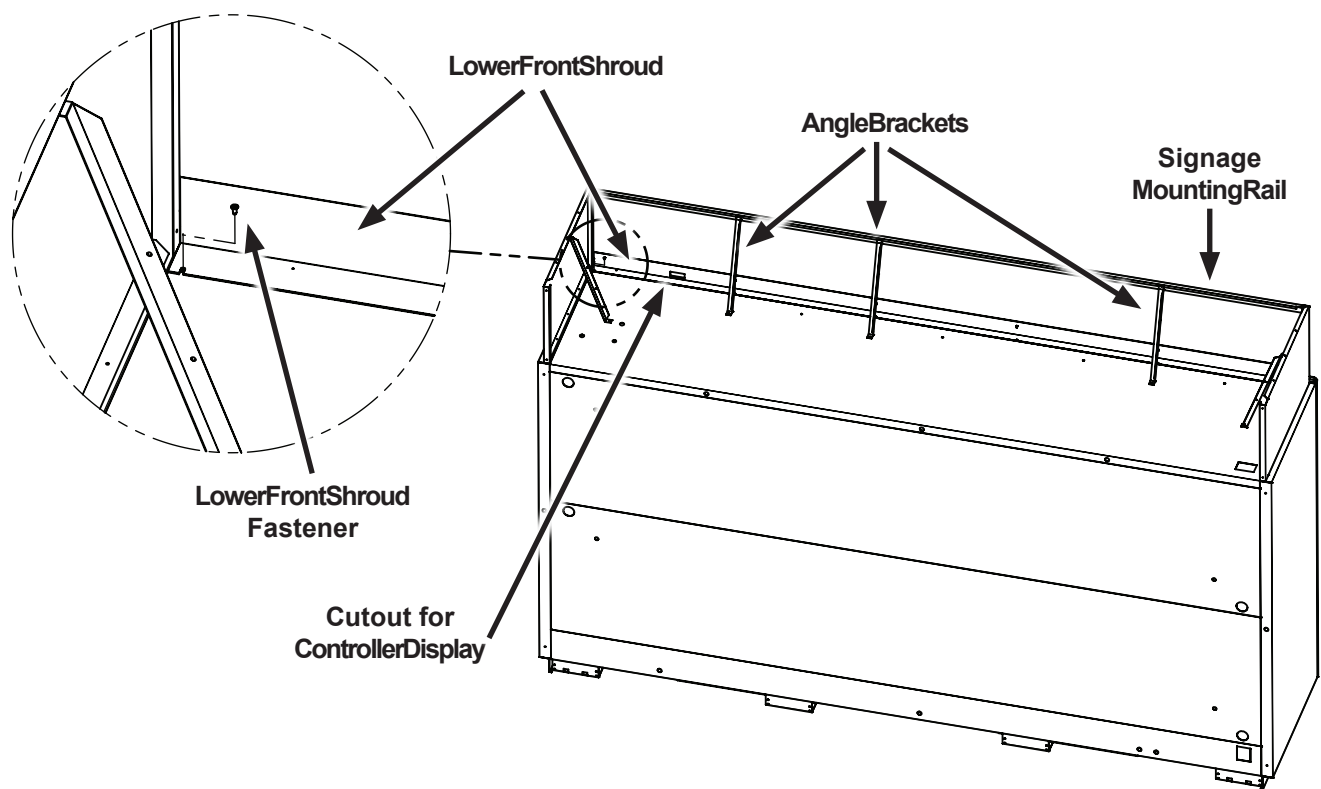


SHROUD INSTALLATION INSTRUCTIONS

Signage Shroud Assembly for Highlight Merchandiser®

Signage shrouds are only available for Highlight Merchandiser®. For assembling signage shrouds, follow similar steps as for standard shrouds.

- 1. Install the lower front shroud using the same steps as the standard front shroud. **Do not add angle brackets to lower front shroud.**
- 2. Install the side shroud using the same steps as the standard side shroud. Add 1 angle bracket to each side shroud.



SIGNAGE MOUNTING RAIL

- 1. Position the signage mounting rail above the lower front shroud and between the side shrouds.
- 2. Fasten the signage mounting rail to the top of the side shrouds.
- 3. Install angle brackets* to support the signage mounting rail. The brackets will match up with holes on top of the signage mounting rail.

*See table for quantity.

Case Size	Angle Brackets
1-Door	None
2-Door	None
3-Door	1 Bracket
4-Door	2 Brackets
5-Door	3 Brackets
6-Door	3 Brackets



SHROUD INSTALLATION INSTRUCTIONS

Standard Shroud Assembly for Case Lineup

For a lineup of Hybrid™ cases, side shrouds will be included between each case to block warm air discharged from one condensing unit from entering the next condensing unit. For a lineup of remote cases, side shrouds may or may not be included.

LINEUPS WITH SIDE SHROUDS BETWEEN EACH CASE

Repeat case-specific instructions for front and side shroud installation. Fasten front shrouds to side shrouds.

LINEUPS WITHOUT SIDE SHROUDS BETWEEN CASES

Repeat case-specific instructions for only front shroud installation. Fasten adjacent front shrouds together.

Note: Make sure the front shrouds continue in a straight line. Do not position them forward or backward on the case.

Signage Shroud Assembly for Case Lineup

For a case lineup, a side shroud must be included between each case for installing the signage mounting rail. Install all lower front shrouds and side shrouds in the lineup before installing the signage mounting rails.

We recommend setting signage mounting rails on top of each case before continuing. Start at one end of the lineup and fasten the signage mounting rail to the first side shroud. Two signage mounting rails will be fastened to all other side shrouds until the end of the lineup.



Insulated Divider Shroud Piece

Insulated divider shroud pieces are installed above insulated dividers (between cases). Insulated divider shroud pieces are necessary to ensure proper spacing of front shrouds above cases.

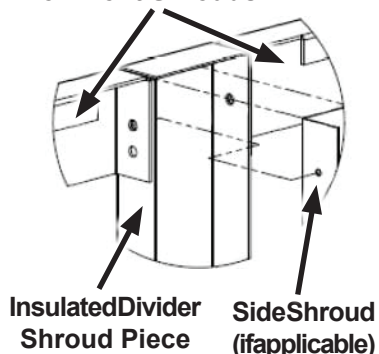
LINEUPS WITH SIDE SHROUDS BETWEEN EACH CASE

Insert insulated divider shroud piece into the side shroud piece. Then, install the part together between the front shrouds or signage mounting rails. Fasten to the adjacent front shrouds.

LINEUPS WITHOUT SIDE SHROUDS BETWEEN CASES

Install insulated divider shroud piece between the front shrouds. Fasten to the adjacent front shrouds.

Signage Mounting Rails
or Front Shrouds



SHROUD INSTALLATION INSTRUCTIONS

Highlight Merchandiser® - 5" Tall or 20 1/4" Tall Standard Shroud

! CAUTION! 5" TALL AND 20 1/4" TALL SHROUDS ATTACH TO THE UPPER RACEWAY COVER. DO NOT SCREW THE FRONT SHROUDS DIRECTLY INTO THE UPPER RACEWAY AS THIS WILL CAUSE AN ELECTRICAL HAZARD.

FIGURE 1: Shroud Assembled, From Behind Case (3-Door Hybrid™ Lineup Shown)

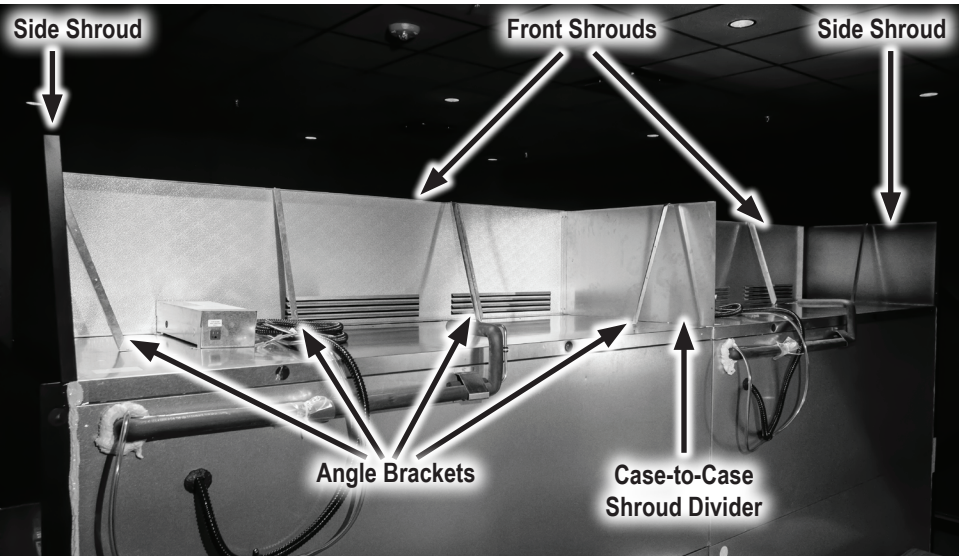


TABLE 1: Number of Angle Brackets for Front Shrouds

Case Size	Angle Brackets
1-Door	None
2-Door	None
3-Door	2 Brackets
4-Door	2 Brackets
5-Door	3 Brackets
6-Door	3 Brackets
No angle brackets used with 5" tall shrouds.	

SINGLE CASE

1. The screws that hold the upper raceway cover will be used to hold the front shroud. Loosen the screws without removing them.
2. Slide the front shroud under those screws and tighten (See Figure 2).
3. See Table 1 for angle bracket quantities. Install the angle brackets to support the front shroud. Mount the angle brackets to the holes on the top flange of the shroud (See Figure 3).
4. Screw the angle brackets to the top of the case (See Figure 3). Use a level at each angle bracket location to ensure that the shroud is upright, and not tilting forward or backward.

FIGURE 2: Attach Front Shroud Using Raceway Screws

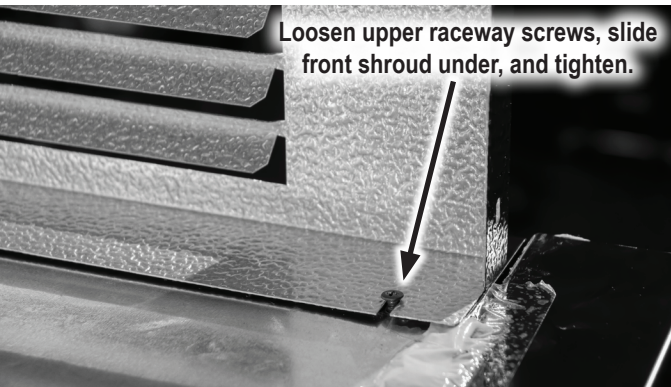
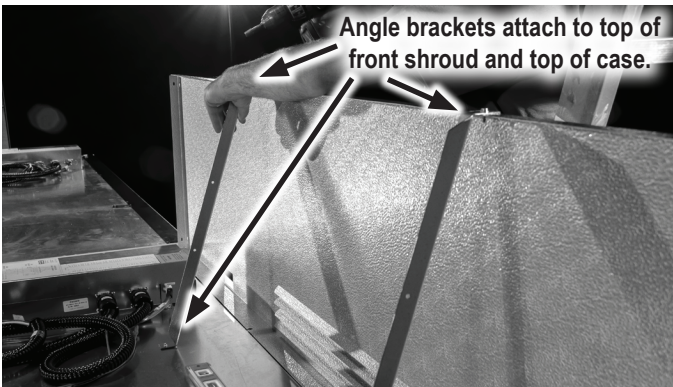


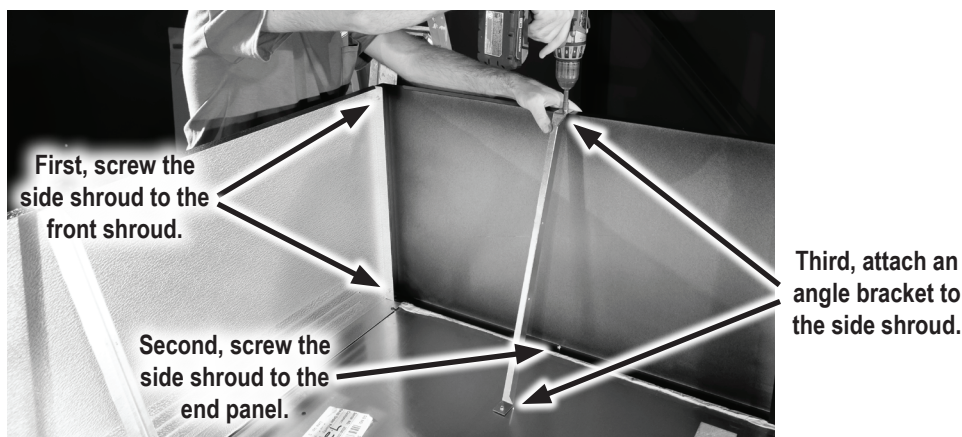
FIGURE 3: Attach Angle Brackets to Front Shroud



SHROUD INSTALLATION INSTRUCTIONS

5. Position the side shrouds perpendicular to the front shroud, on top of each end panel (**See Figure 4 for next steps**).
6. Screw the side shrouds to the front shroud to ensure a tight fit.
7. Screw the side shrouds into the end panel using self-tapping screws.
8. Install 1 angle bracket to support each side shroud. Mount the angle bracket to the holes on the top flange of the shroud, and screw the angle bracket to the top of the case. Use a level to ensure that the shroud is upright.

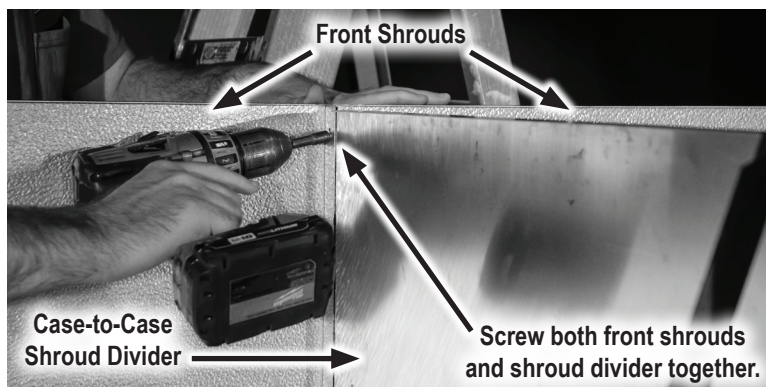
FIGURE 4: Install Side Shroud



HYBRID™ LINEUPS

9. For a lineup of Hybrid™ cases, a case-to-case shroud divider is necessary to block warm air discharged from one condensing unit from entering the next condensing unit (**See Figure 1 on page 1**). Hybrid™ cases do not use 5" tall shrouds.
 - a. Start the lineup at the leftmost case by installing the front shroud (steps 1-4) and the leftmost side shroud (steps 5-8) (**See Figure 2 through Figure 4, starting on page 1**).
 - b. Install the next front shroud (steps 1-4).
 - c. Insert the shroud divider between the 2 front shrouds at the case joint (**See Figure 5**). The flange on the shroud divider can turn toward either the first or second display case.
 - d. Screw the shroud divider and both front shrouds together using the same screws (**See Figure 5**).

FIGURE 5: Install Shroud Divider Between Front Shrouds



SHROUD INSTALLATION INSTRUCTIONS

- e. Screw the shroud divider to the top of the case using self-tapping screws.
- f. Install 1 angle bracket to support the shroud divider. Mount the angle bracket to the holes on the top flange of the shroud divider, and screw the shroud divider to the top of the case (**See Figure 1 on page 1**).
- g. Repeat the installation for the duration of the lineup, finishing with a side shroud at the end (steps 5-8).

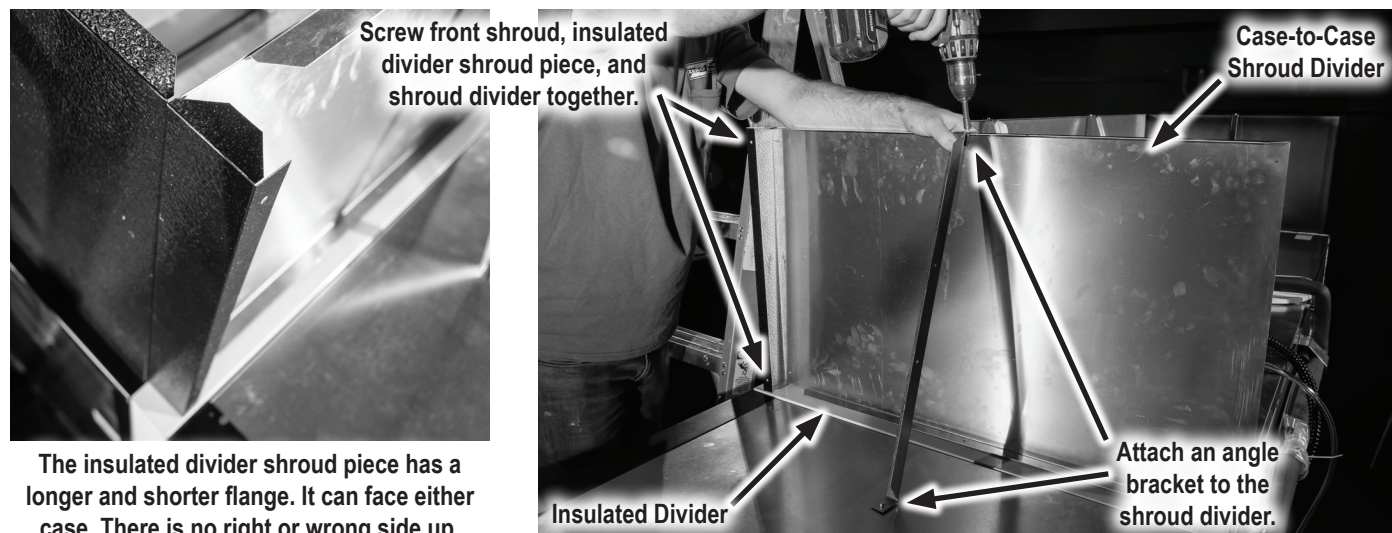
REMOTE LINEUPS

- 10. For a lineup of remote cases, case-to-case dividers may not be included since there are no condensing units.
 - a. Start the lineup at the leftmost case by installing the front shroud (steps 1-4) and the leftmost side shroud (steps 5-8) (**See Figure 2 through Figure 4, starting on page 1**).
 - b. Screw the next front shroud to the first front shroud to ensure a tight fit before fastening the next front shroud to the upper raceway cover screws (steps 1-4).
 - c. Repeat the installation for the duration of the lineup, finishing with a side shroud at the end (steps 5-8).

LINEUPS WITH INSULATED DIVIDERS

- 11. When a medium temperature cooler is set next to a low temperature freezer, an insulated divider will be installed between the cases. An insulated divider shroud piece must be installed above the insulated dividers to ensure proper spacing of the front shrouds.
 - a. Start the lineup at the leftmost case by installing the front shroud (steps 1-4) and the leftmost side shroud (steps 5-8) (**See Figure 2 through Figure 4, starting on page 1**).
 - b. Install the front shrouds and shroud dividers (steps 9a-9f) until reaching the case with the insulated divider.
 - c. The front shroud, the insulated divider shroud piece, and the case-to-case shroud divider will be fastened together. Position them and then screw them together (**See Figure 6**).
 - d. Screw the case-to-case shroud divider to the top of the case, and install 1 angle bracket to support the shroud divider (**See Figure 6**).
 - e. Screw the next front shroud to the insulated divider shroud piece. Continue installing the rest of the lineup (steps 9a-9g).

FIGURE 6: Install Insulated Divider Shroud Piece



SHROUD INSTALLATION INSTRUCTIONS

Crystal Merchandiser® and Reveal Merchandiser® - Standard Shroud

These instructions apply to shrouds installed on Crystal Merchandiser® and Reveal Merchandiser®. They also apply to Highlight Merchandiser® when using 9" or 12" tall shrouds. Other Highlight™ shroud heights (5" and 20 1/4") should follow instructions 66-0052-01.

! CAUTION! DO NOT SCREW THE FRONT SHROUDS INTO THE UPPER RACEWAY AS THIS WILL CAUSE AN ELECTRICAL HAZARD.

FIGURE 1: Shroud Assembled, From Behind Case (3-Door Hybrid™ Lineup Shown)

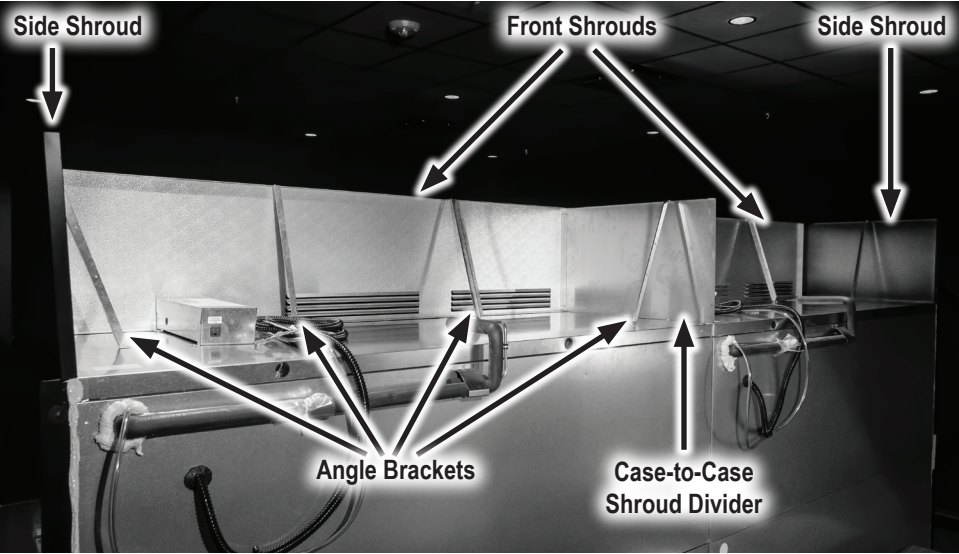


TABLE 1: Number of Angle Brackets for Front Shrouds

Case Size	Angle Brackets
1-Door	None
2-Door	None
3-Door	2 Brackets
4-Door	2 Brackets
5-Door	3 Brackets
6-Door	3 Brackets
No angle brackets used with 5" tall shrouds.	

SINGLE CASE

1. The screws that hold the upper raceway cover will be used to hold the front shroud. Loosen the screws without removing them.
2. Slide the front shroud under those screws and tighten (See Figure 2).
3. See Table 1 for angle bracket quantities. Install the angle brackets to support the front shroud. Mount the angle brackets to the holes on the top flange of the shroud (See Figure 3).

FIGURE 2: Attach Front Shroud Using Raceway Screws

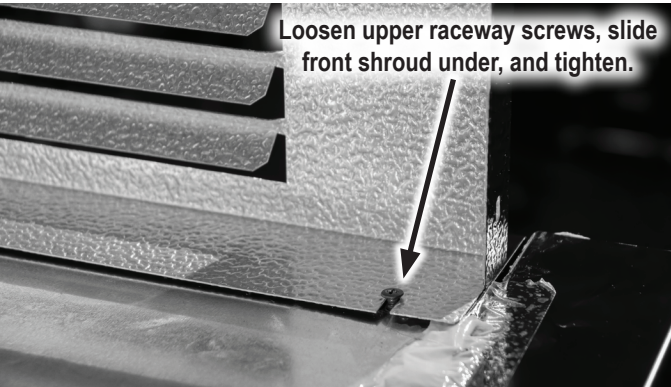
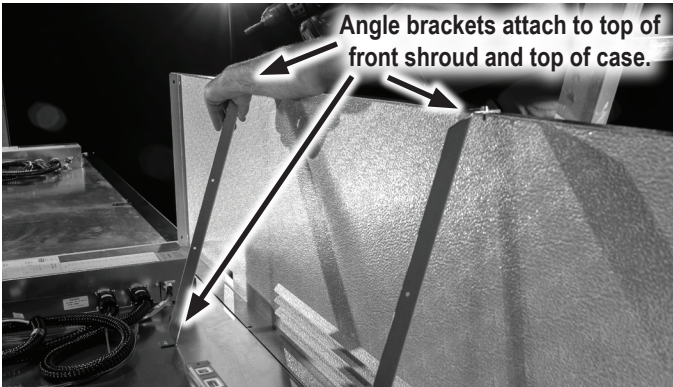


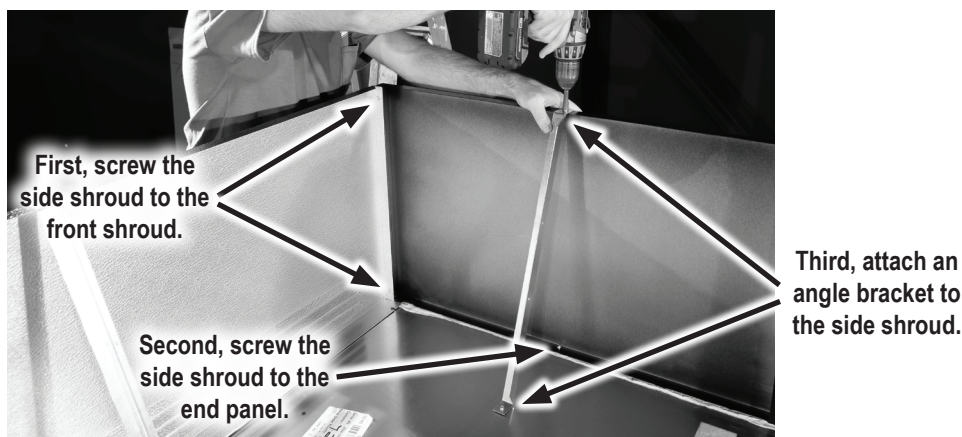
FIGURE 3: Attach Angle Brackets to Front Shroud



SHROUD INSTALLATION INSTRUCTIONS

4. Screw the angle brackets to the top of the case (See Figure 3). Use a level at each angle bracket location to ensure that the shroud is upright, and not tilting forward or backward.
5. Position the side shrouds perpendicular to the front shroud, on top of each end panel (See Figure 4 for next steps).
6. Screw the side shrouds to the front shroud to ensure a tight fit.
7. Screw the side shrouds into the end panel using self-tapping screws.

FIGURE 4: Install Side Shroud

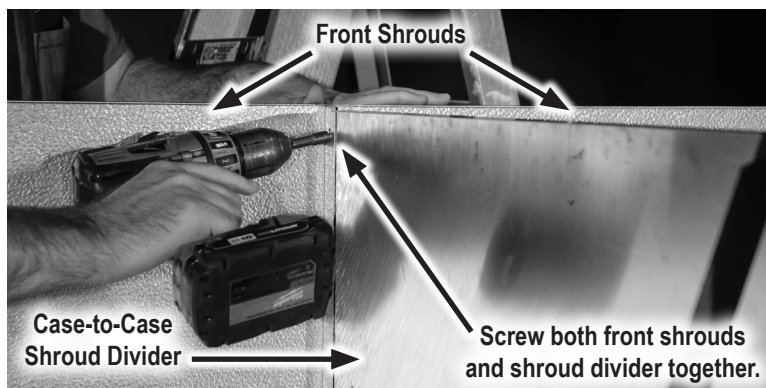


8. Install 1 angle bracket to support each side shroud. Mount the angle bracket to the holes on the top flange of the shroud, and screw the angle bracket to the top of the case. Use a level to ensure that the shroud is upright.

HYBRID™ LINEUPS

9. For a lineup of Hybrid™ cases, a case-to-case shroud divider is necessary to block warm air discharged from one condensing unit from entering the next condensing unit (See Figure 1 on page 1). Hybrid™ cases do not use 5" tall shrouds.
 - a. Start the lineup at the leftmost case by installing the front shroud (steps 1-4) and the leftmost side shroud (steps 5-8) (See Figure 2 through Figure 4, starting on page 1).
 - b. Install the next front shroud (steps 1-4).
 - c. Insert the shroud divider between the 2 front shrouds at the case joint (See Figure 5). The flange on the shroud divider can turn toward either the first or second display case.

FIGURE 5: Install Shroud Divider Between Front Shrouds



SHROUD INSTALLATION INSTRUCTIONS

- d. Screw the shroud divider and both front shrouds together using the same screws (See Figure 5).
- e. Screw the shroud divider to the top of the case using self-tapping screws.
- f. Install 1 angle bracket to support the shroud divider. Mount the angle bracket to the holes on the top flange of the shroud divider, and screw the shroud divider to the top of the case (See Figure 1 on page 1).
- g. Repeat the installation for the duration of the lineup, finishing with a side shroud at the end (steps 5-8).

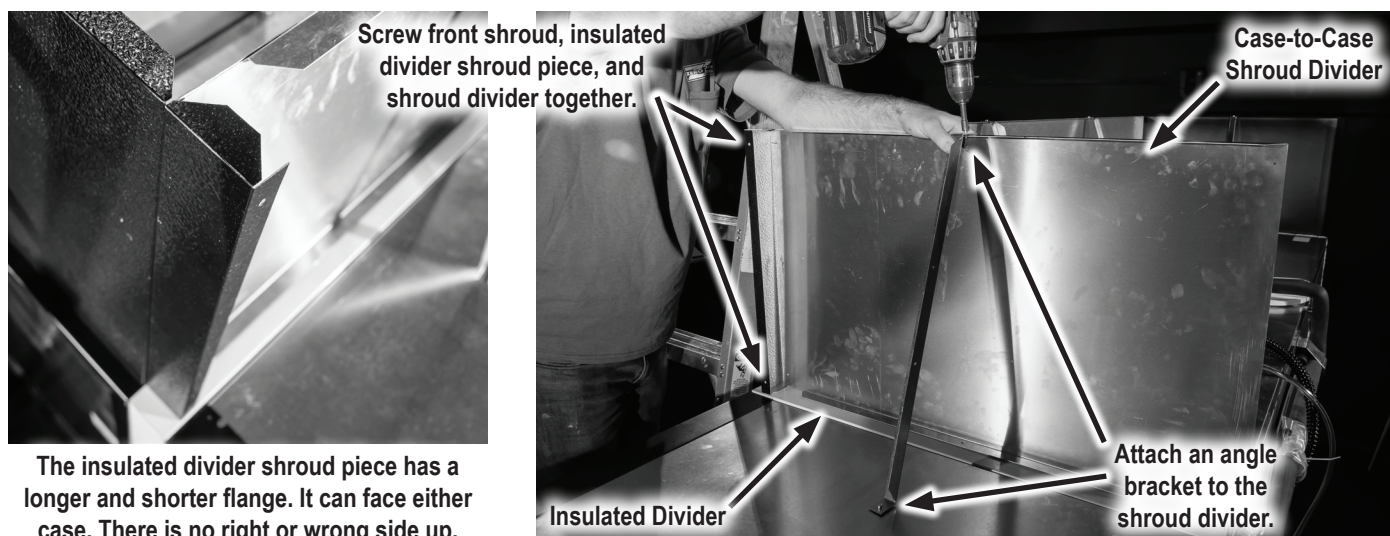
REMOTE LINEUPS

10. For a lineup of remote cases, case-to-case dividers may not be included since there are no condensing units.
 - a. Start the lineup at the leftmost case by installing the front shroud (steps 1-4) and the leftmost side shroud (steps 5-8) (See Figure 2 through Figure 4, starting on page 1).
 - b. Screw the next front shroud to the first front shroud to ensure a tight fit before fastening the next front shroud to the upper raceway cover screws (steps 1-4).
 - c. Repeat the installation for the duration of the lineup, finishing with a side shroud at the end (steps 5-8).

LINEUPS WITH INSULATED DIVIDERS

11. When a medium temperature cooler is set next to a low temperature freezer, an insulated divider will be installed between the cases. An insulated divider shroud piece must be installed above the insulated dividers to ensure proper spacing of the front shrouds.
 - a. Start the lineup at the leftmost case by installing the front shroud (steps 1-4) and the leftmost side shroud (steps 5-8) (See Figure 2 through Figure 4, starting on page 1).
 - b. Install the front shrouds and shroud dividers (steps 9a-9f) until reaching the case with the insulated divider.
 - c. The front shroud, the insulated divider shroud piece, and the case-to-case shroud divider will be fastened together. Position them and then screw them together (See Figure 6).
 - d. Screw the case-to-case shroud divider to the top of the case, and install 1 angle bracket to support the shroud divider (See Figure 6).
 - e. Screw the next front shroud to the insulated divider shroud piece. Continue installing the rest of the lineup (steps 9a-9g).

FIGURE 6: Install Insulated Divider Shroud Piece



SIGNAGE SHROUD INSTRUCTIONS

Highlight Merchandiser® – Signage Shroud

! CAUTION! LOWER SHROUDS ATTACH TO THE UPPER RACEWAY COVER. DO NOT SCREW THE LOWER SHROUDS DIRECTLY INTO THE UPPER RACEWAY AS THIS WILL CAUSE AN ELECTRICAL HAZARD.

FIGURE 1: Signage Shroud Assembled, From Behind Case

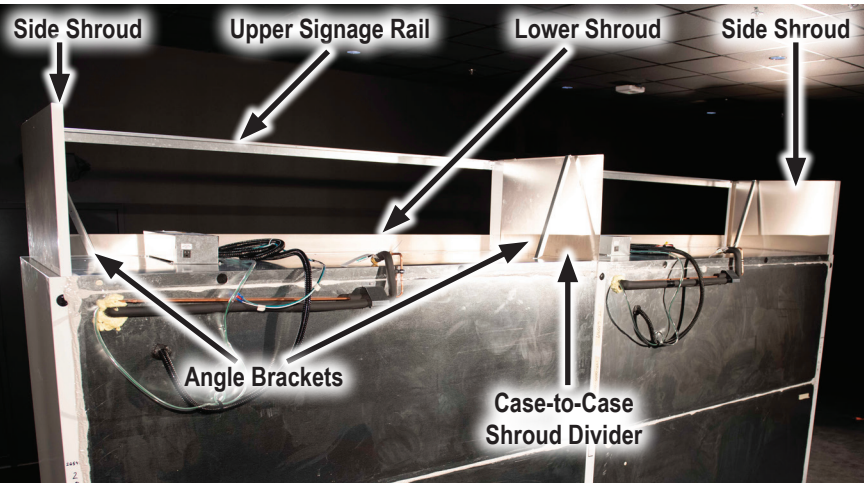
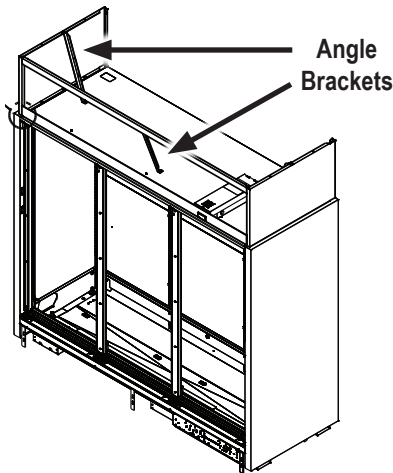


FIGURE 2: Single Case Signage Shroud



SINGLE CASES

1. The screws that hold the upper raceway cover will be used to hold the lower shroud. Loosen the screws without removing them (See Figure 3).
2. Slide the lower shroud under those screws and tighten (See Figure 3).
3. Position the side shrouds perpendicular to the front shroud, on top of each end panel (See Figure 3).
4. Screw the side shrouds into the end panel using self-tapping screws (See Figure 4).

TABLE 1: Number of Angle Brackets for Signage Rails

Case Size	Angle Brackets
1-Door	None
2-Door	None
3-Door	1 Brackets
4-Door	3 Brackets
5-Door	4 Brackets

FIGURE 3: Attach Lower Shroud Using Raceway Screws

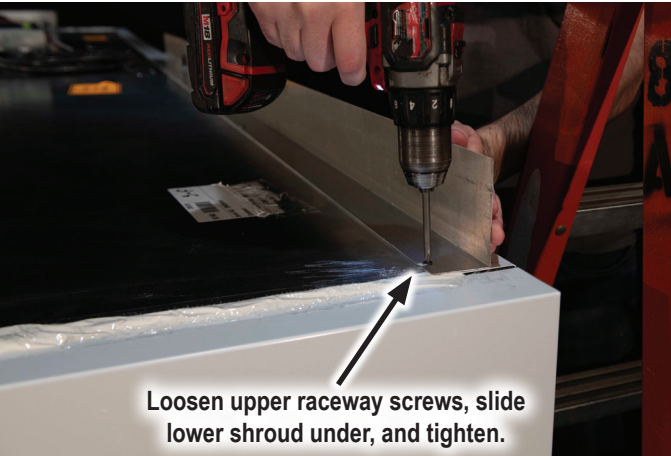


FIGURE 4: Screw Side Shrouds to the End Panel



SIGNAGE SHROUD INSTRUCTIONS

5. Install 1 angle bracket to support each side shroud (**See Figure 5**). Mount the angle bracket to the holes on the top flange of the shroud divider, and screw the shroud divider to the top of the case. *Note: Position the angle bracket so there will be space for the evaporation pan. Use a level or square to ensure that the shroud is upright.*
6. Mount the upper signage rail to the side shrouds using 2 self-tapping screws at each end (**See Figure 6**). Install angle brackets to support the signage rail. **See Table 1** for angle bracket quantities.

FIGURE 5: Secure Side Shrouds with an Angle Bracket

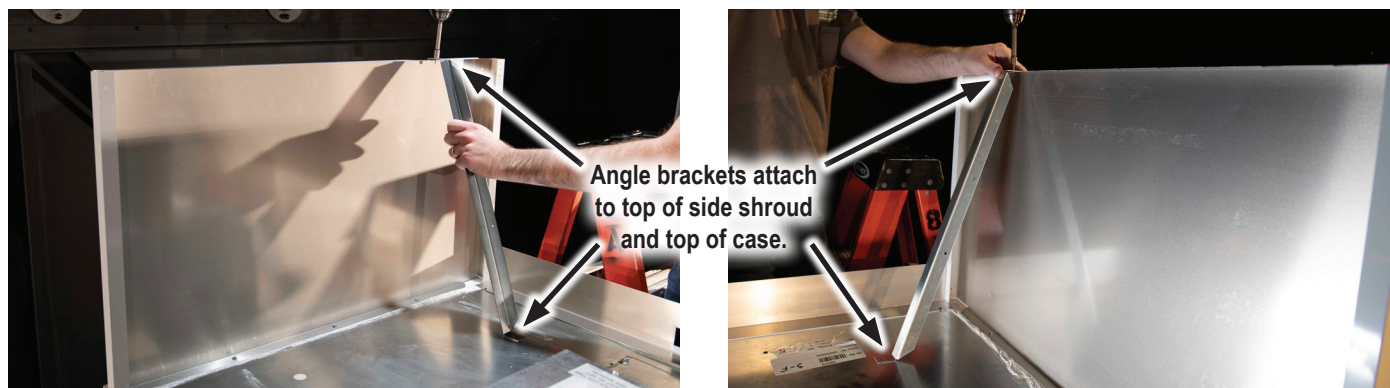


FIGURE 6: Mount the Signage Rail to the Side Shrouds



CASE LINEUPS

For a lineup of cases, a case-to-case shroud divider is necessary to support the upper signage rail at case joints. For Hybrid™ cases, the divider also blocks warm air discharged from one condensing unit from entering the next condensing unit.

1. Install the lower shrouds and side shrouds by following the steps in the **"Single Cases"** section.
2. Insert the shroud divider between the 2 lower shrouds at the case joint. The flange on the shroud divider can turn toward either the first or second display case.
3. Screw the shroud divider to the top of the case using self-tapping screws (**See Figure 7**).
4. Install 1 angle bracket to support the shroud divider (**See Figure 7**). Mount the angle bracket to the holes on the top flange of the shroud divider, and screw the shroud divider to the top of the case. Position the angle bracket so there will be space for the evaporation pan.
5. Mount the upper signage rails to the side shrouds and shroud divider using 2 self-tapping screws at each end and joint (**See Figure 8**).
 - a. There will be only 1 screw hole in the shroud divider. Put the first screw through the top hole in the signage rail and the hole in the shroud divider. Drill the second screw into the metal of the shroud divider.



SIGNAGE SHROUD INSTRUCTIONS

FIGURE 7: Add the Divider, Secure with Angle Bracket

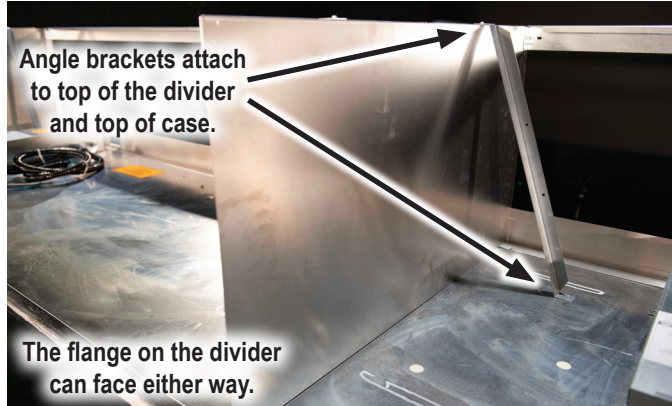


FIGURE 8: Mount the Signage Rail to the Divider



LINEUPS WITH INSULATED DIVIDERS

An insulated divider will be installed between a medium temperature case next to a low temperature case. An insulated divider shroud piece (hereafter simply "shroud piece") must be installed above the insulated dividers to ensure proper spacing of the shrouds.

1. Install the lower shrouds and side shrouds by following the steps in the **"Single Cases"** section.
2. Install the case-to-case shroud dividers by following the steps in the **"Case Lineups"** section.
3. At the joint with the insulated divider, install the case-to-case shroud divider and angle brackets first. Line it up with the edge between the case and insulated divider.
4. Position the insulated divider shroud piece above the insulated divider. Use a temporary screw to hold them together.
5. The upper signage rail, the insulated divider shroud piece, and the case-to-case shroud divider will be fastened together with the same screw. Position them and use 2 self-tapping screws at each joint (**See Figure 9**).
 - a. There will be only 1 screw hole in the insulated divider shroud piece. Put the first screw through the top hole in the signage rail and the hole in the shroud piece. Drill the second screw into the metal of the shroud piece.
6. Continue installing the rest of the lineup.

FIGURE 9: Install Insulated Divider Shroud Piece



The insulated divider shroud piece has a longer and shorter flange. It can face either case. There is no right or wrong side up.