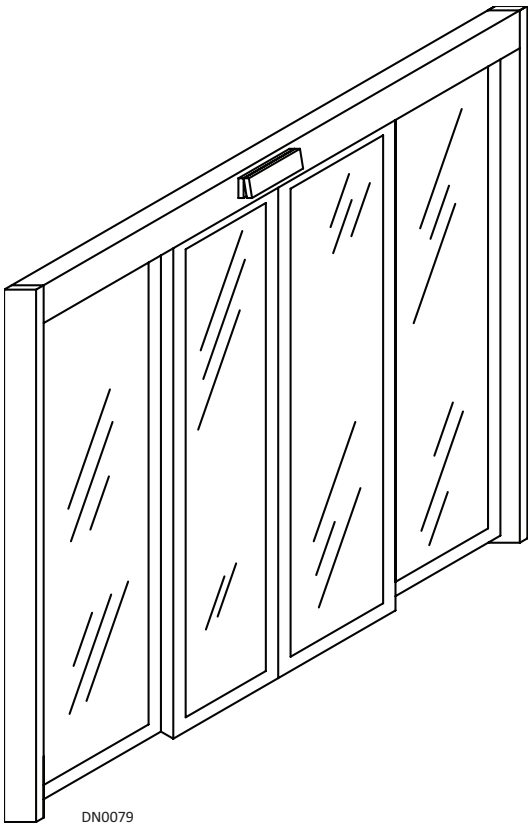
S82 W18717 Gemini Drive
Muskego, Wisconsin 53150
Phone: (877) 622-2694
Fax: (888) 679-3319
www.nabcoentrances.com
Technical Support: (866) 622-8325

Model GT 1175
Standard Slide Doors
with U30 Control
Installation Manual



WARNING

- Turn OFF all power to the Automatic Door if a Safety System is not working.
- Instruct the Owner to keep all power turned OFF until corrective action can be achieved by a NABCO trained technician. Failure to follow these practices may result in serious consequences.
- NEVER leave a Door operating without all Safety detection systems operational.

Part #15-9244-30
Rev. 8/06/14

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Table of Contents

WARNING LABELS

Warning labels are universal and used to alert an individual of potential harm to one's self or to others. The following warning labels are listed in a hierarchy order that defines the most potential danger first, and the least potential danger last. Please refer to this page in the event that a warning label is displayed within this manual and further definition needs to be explained.

DANGER — **Indicates potentially dangerous situations. Danger is used when there is a hazardous situation where there is a *high* probability of severe injury or death. It should not be considered for property damage unless personal injury risk is present.**

WARNING — **Indicates a hazardous situation which has *some* probability of severe injury. It should not be considered for property damage unless personal injury risk is present.**

CAUTION — **Indicates a hazardous situation which *may result in a minor injury*. Caution should not be used when there is a possibility of serious injury. Caution should not be considered for property damage accidents unless a personal injury risk is present.**

Notice: **Indicates a statement of company policy as the message relates to the personal safety or protection of property. Notice should not be used when there is a hazardous situation or personal risk.**

Note: *Indicates important information that provides further instruction.*

GENERAL SAFETY RECOMMENDATIONS

WARNING **Read this "General Safety Recommendations" section before installing, operating or servicing the automatic door. Failure to follow these practices may result in serious consequences.**

Notice: **Read, study and understand the operating instructions contained in, or referenced in this manual before operating. If you do not understand the instruction, ask the installing qualified technician to teach you how to use the door.**

WARNING **Do not install, operate or service this product unless you have read and understand the General Safety Recommendations, Warning Labels, Installation and Operating Instructions contained in this manual. Failure to do so may result in bodily injury, or property damage.**

Notice: **This manual and the owner's manual must be given to and retained by the purchasing facility or end user.**

- If the door appears broken or does not seem to work correctly, it should be immediately removed from service until repairs can be carried out or a qualified service technician is contacted for corrective action.
- Disconnect power at the fused disconnect during all electrical or mechanical service. When uncertain whether power supply is disconnected, always verify using a voltmeter.
- All electrical troublshooting or service must be performed by qualified electrical technicians and must comply with all applicable governing agency codes.
- It is the responsibility of the installing door technician to install all warning and instructional labels in accordance with ANSI 156.10.
- It is the responsibility of the purchasing facility or end user to keep warning and instructional labels and literature legible, intact and with the door.
- Replacement labels and literature may be obtained from local NABCO Entrances, Inc. distributors. If the name of the local distrubutor is unknown, contact NABCO Entrances, Inc. at 1-877-622-2694 for assistance.

DANGER **Do not place finger or uninsulated tools inside the electrical controller. Touching wires or other parts inside the enclosure may cause electrical shock, serious injury or death.**

CHAPTER 1: SCOPE

Section 1a: To the Installer

The purpose of this manual is to familiarize the installer and purchaser with the proper installation and operation of this system. It is essential that this equipment be properly installed and operational before the door is used by the public. It is the installer's responsibility to inspect the operation of the entrance system to be sure it complies with any applicable standards. In the United States, ANSI Standard 156.10 covers the GT-1175 Slide Door System. Other local standards or codes may apply. Use them in addition to the ANSI standard. The GT-1175 is listed with the Underwriters Laboratory and is identified as such on the label.

Instruct the building owners and operator on the essentials of the operation of the door and this device. The owner should follow these instructions to determine whether the door is operating properly and should immediately call for service if there is any malfunction. All installation changes and adjustments must be made by qualified, NABCO trained technicians.

Section 1b: Objective

The GT-1175 Standard Slide Door system is designed to be installed within a Rough Opening of a Building. The door function is controlled by the U30 Microprocessor Control. This control offers many features to accommodate most installation options. This manual offers step by step instructions.

CHAPTER 2: GETTING STARTED

Manufactured out of:

- Aluminum

Installed within:

- Opening of Building

Mechanical Configurations:

- Bi-Part: (2) Slide Doors that slide apart from the center with (2) Sidelite Panels.
- Single Slide: (1) Slide Door that slides to the right or left with (1) Sidelite Panel.

Extrusion Configurations:

- Pocketed Jamb Tubes
- Slick Jamb Tubes

Emergency Egress:

- Full Open: Both the Slide door and Swing Sidelite break out for emergency egress.
- Fixed Sidelite: Fixed Sidelite is secured to the Header and Jamb Tube. Only the Slide door breaks out for emergency egress.

Section 2a: Parts of the Header

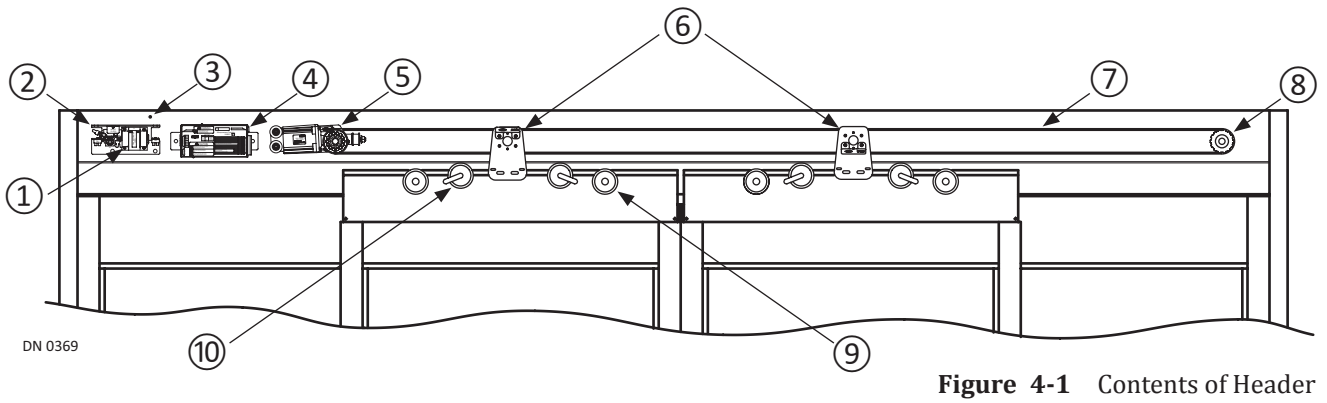

Figure 4-1 Contents of Header

1.	Power Cut Off Switch	N/A	6.	Belt Clip Assembly	11-12805
2.	DS 150/U30 Power Supply	14-11741	7.	Timing Belt 3/4" wide	14-0795
3.	Handy Terminal Harness	12-13881	8.	Idler Assembly	22-9210
4.	U30 Microprocessor Control	24-8901-30	9.	Anti Rise Roller	11-9037
5.	DS 150 Operator	24-11327	10.	Hanger Roller	11-10733

Section 2b: Specifications

Note: Electrical conduit and switch or sensor wires should be pulled through the frame before mounting the GT1175 System.

Note: To prevent electrical interference for the 120 Vac Line, always route 120 Vac Power in from the end of the header that is opposite to the controller and motor/operator. Refer to "Model GT 1175 Electrical Installation Manual"; P/N 15-10596-30 for more information

Table 2-1 Electrical Specifications

Electricity	Description
Power Input	120 (±10%) AC 50-60Hz, 5 Amps
Available current for accessories	U Series Control 0.35 Amps 12 Volts DC
Available wire size for incoming power	14 AWG

Section 2c: U30 Microprocessor Control

The U30 Microprocessor Control has been designed to control numerous operating characteristics of the slide door system including speed, recycling sensitivity and reduced door opening width. It is programmed after installation is complete. Please refer to the "U30 Microprocessor Control Setup and Programming Manual", P/N 15-9000-30 for detailed information.

Section 2d: Associated Manuals Part Numbers

- Model GT 1175 Electrical Installation Manual **with U30 Microprocessor Controller** P/N 15-10596-30
- U30 Microprocessor Control Setup and Programming Manual P/N 15-9000-30

Section 2e: Header Layout

- Model GT 1175 Electrical Installation Manual ** with U30 Microprocessor Controller** P/N 15-10596-30

Section 2f: Wiring

- GT 1175 Electrical Installation Manual** with U30 Microprocessor Controller** P/N 15-10596-30

Section 2g: Holding Beams

- GT 1175 Electrical Installation Manual ** with U30 Microprocessor Controller** P/N 15-10596-30

Section 2h: Electric Lock (Optional)

- GT 1175 Electrical Installation Manual ** with U30 Microprocessor Controller** P/N 15-10596-30

Section 2i: Troubleshooting

- GT 1175 Electrical Installation Manual **with U30 Microprocessor Controller** P/N 15-10596-30
- U30 Microprocessor Control Setup and Programming Manual P/N 15-9000-30

Section 2j: Service Part Pages

- 1175 Standard Slide Door System P/N 15-12499-022

CHAPTER 3: ASSEMBLE FRAME

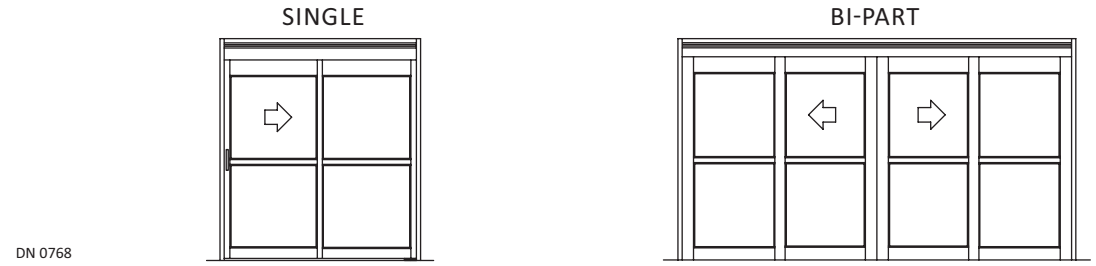

Figure 3-1 Frame Sizes

Before installing the Slide Doors it is recommended to ensure the Rough Opening is the correct size:

- The width of the Rough Opening should equal:
  - Package Width + 1/4 inch (6mm) on each side
- The height of the Rough Opening should equal:
  - Package height + 1/4 inch (6mm) on each side

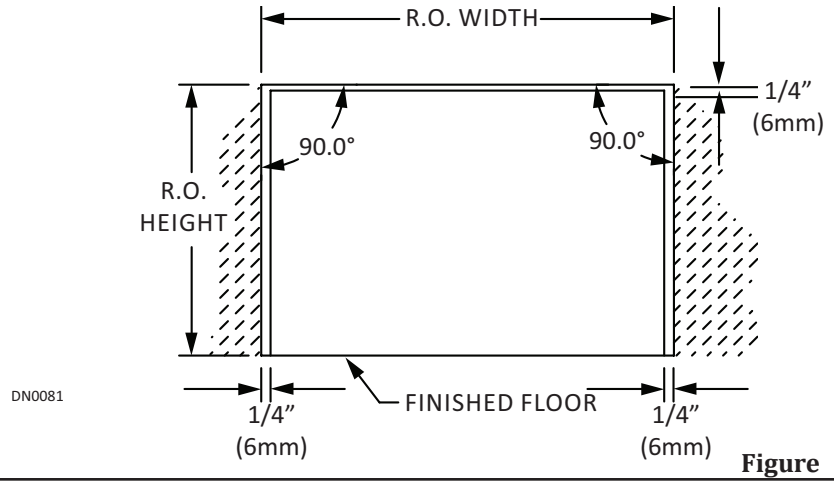

Figure 3-2 Masonry Opening

1. Place the Header on a flat surface with the removable cover facing up.
   a. Protect header from scratches.
2. Position Jamb tubes on either side of Header according to the instruction sticker located on each Jamb tube, that shows proper location and orientation. Please see Figure 3-3.
3. Orientate the Frame in relation to the building:
   - Removable Cover must face the Exterior side of building:
     - Fixed Sidelite
   - Removable Cover must face the Interior side of building:
     - Full Open

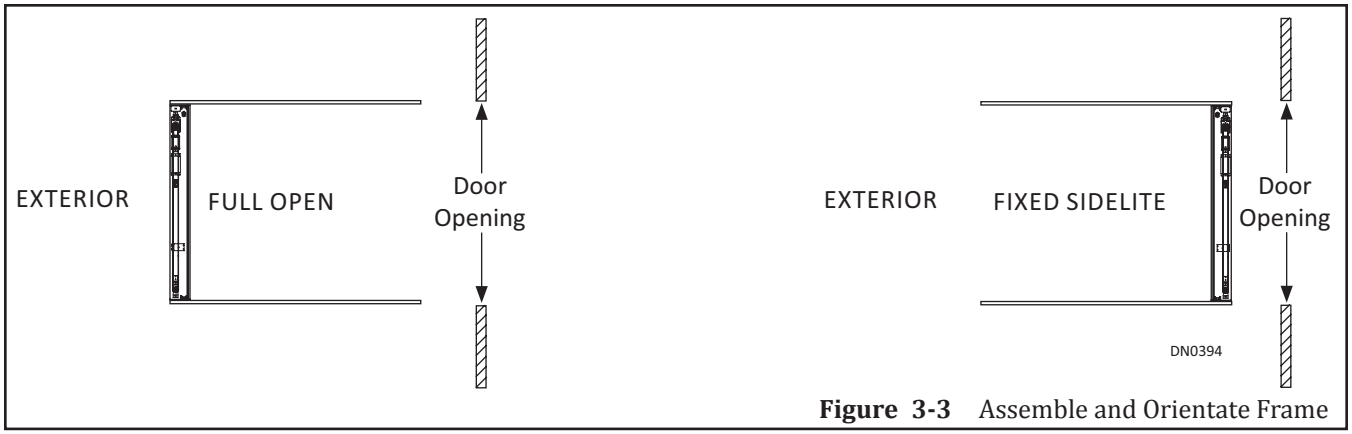

Figure 3-3 Assemble and Orientate Frame

4. Go to the bottom of Header, remove (2) #8-32 x 5/8" Phillips head screws used to secure the removable Cover. Save for reinstallation.
5. Remove the Cover by lifting it up and then pulling it out. Please see Figure 3-4.
6. Unplug the Sensor (if equipped) near the Header End Cap.
7. Remove Parts boxes and/or Parts bags from inside Header. Set aside.

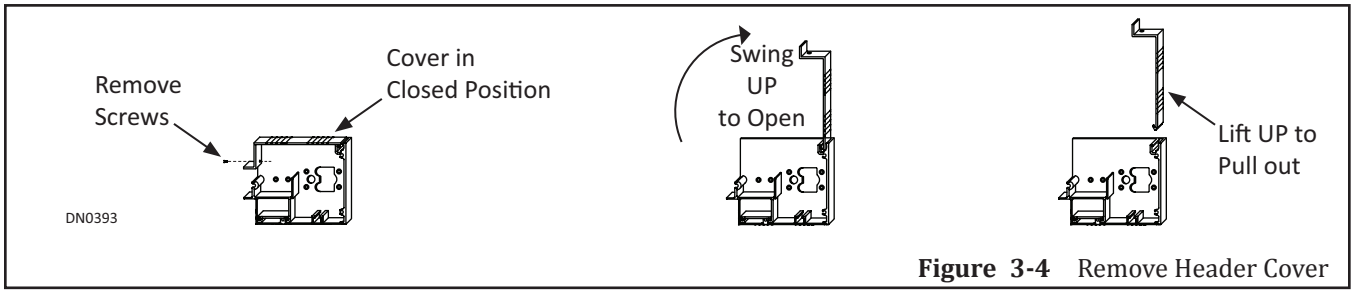

Figure 3-4 Remove Header Cover

Section 3a: Secure Transom Clips to Header (Transom Units)

FOR ALL OTHER UNITS
SKIP TO SECTION 3B

1. Obtain all sets of Vertical Transom clips provided by NABCO.
2. Locate pre-drilled holes on Header.
3. Secure Transom clips to Header with #8 x 1-3/4 inch screws that were provided by NABCO. Please see Figure 3-5.
   a. Please refer to the instruction sticker located on the Header for proper location and orientation.
   b. Be sure to orientate all Transom Clips in relation to the Header cover.

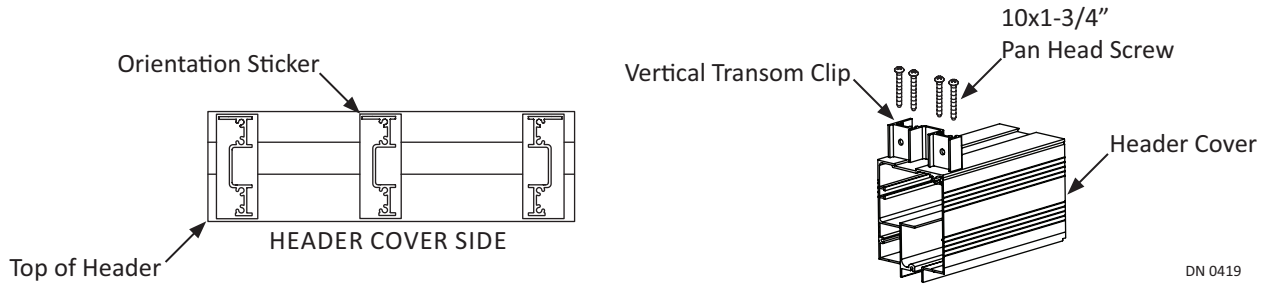

Figure 3-5 Attach Transom Clips

Section 3b: Secure Header to Jamb Tubes

1. Obtain (12) 1/4-20 x 3/4 inch bolts and (12) 1/4 inch Star Washers provided by NABCO. Set aside.
2. Measure to ensure each side of Jamb Tube facing the floor is lifted 1/8 inch from the floor (once secured to Jamb Tube). Please see Figure 3-6.
3. Secure Header to Jamb Tubes with 1/4-20 x 3/4 inch bolts and 1/4 inch Star Washers.

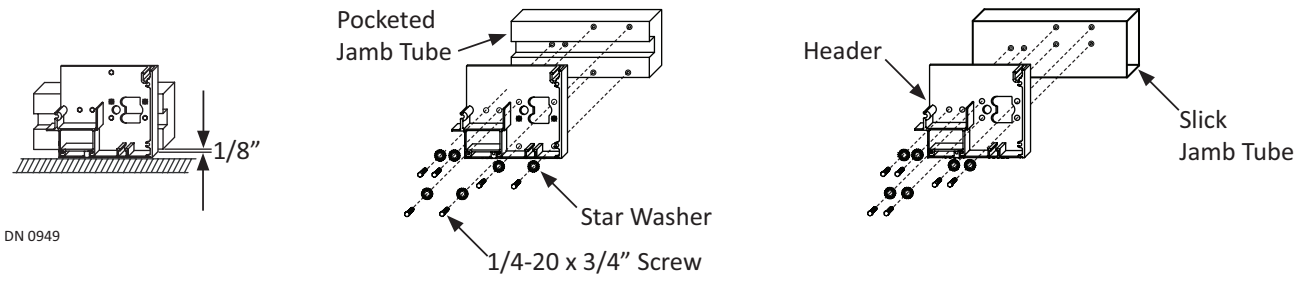

Figure 3-6 Secure Header to Jamb Tubes

CHAPTER 4: ASSEMBLE TRANSOM

FOR UNITS NOT INSTALLING A TRANSOM
SKIP TO CHAPTER 5

The Transom is installed on top of the Header when glass windows (or panels) are needed. The Transom consists of five major parts:

- ► Horizontal Transom
  - Secured between (2) Pocketed Jamb tubes, and top of Rough Opening.
- ► Vertical Transom
  - Used to divide portions of the Transom where glass is inserted into, and to attach the Transom Horizontal to top of Header.
- ► Transom Clip
  - Installed on the Header to secure Transom Verticals.
- ► The Glass Stop Assembly
  - A retaining strip mounted vertically or horizontally on a door or transom to hold glass or panels in place (only used when glass cannot be glazed).
- ► Glass or Panel

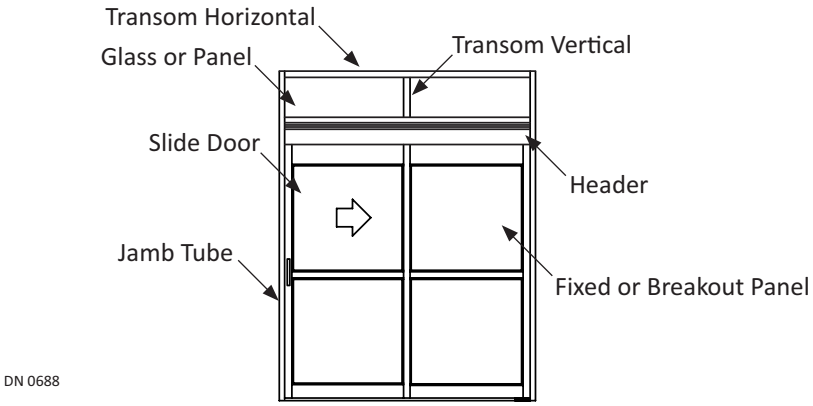

Figure 4-1 Parts of Slide Door

Section 4a: Secure Transom to Header

1. Slide Transom Verticals onto Transom clips located on Header. Please see Figure 4-2.
2. Secure Transom Verticals to each Transom clip with 1/4-20 x 1" Flat Head screws.

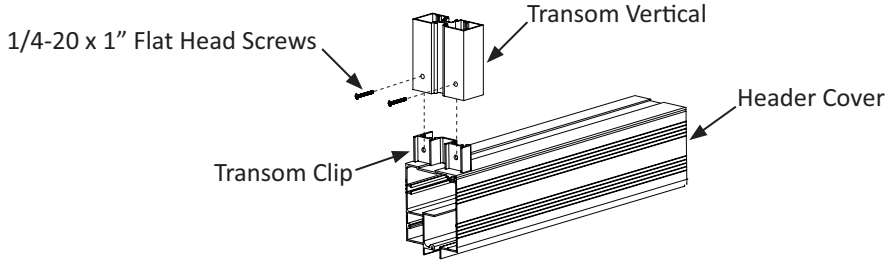

Figure 4-2 Secure Transom Vertical to Transom Clip

3. Secure the Horizontal Transom to each Vertical Transom with #8 x 1 inch Pan Head screws. Please see Figure 4-3.

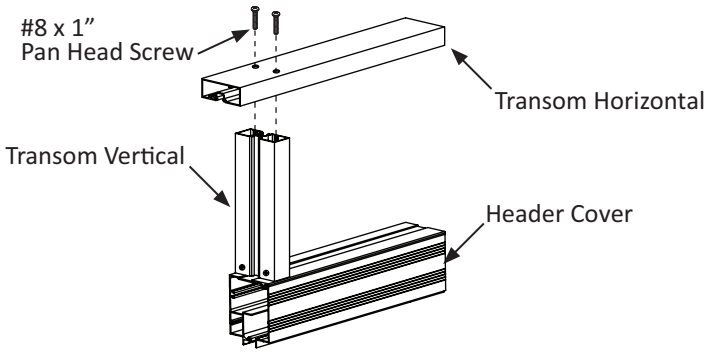

Figure 4-3 Attach Transom Horizontal to Transom Vertical

Section 4b: Secure Transom to Jamb Tubes

1. Both the Horizontal Transom and Jamb Tubes have predrilled holes on each side. Secure the Horizontal Transom to both Jamb tubes, with #8 x 1 inch Pan Head screws. Please see Figure 4-4.

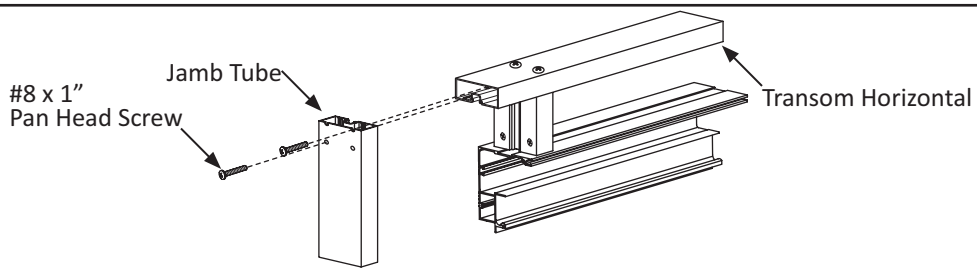

Figure 4-4 Attach Horizontal Transom to Jamb Tubes

Section 4c: Install Tie Rods (For Units 11’ - 12’ Tall)

FOR TRANSOMS UNDER 11 FEET
SKIP TO CHAPTER 5

Note: Tie Rods are used for Transom Units that are 11 feet (3353mm) to 12 feet (3658mm) tall.

Note: For units taller than 12 feet (3658mm), please call Technical Support at 1-866-622-8325, only if instructions were not provided.

1. Lift to (temporarily) position the assembled Frame into the rough opening.
2. Plumb Jamb tubes in both planes to ensure the rough opening allows a 1/4 inch (6mm) clearance. Please see Figure 4-5.
   a. To ensure proper fit, temporarily shim back of Jamb Tubes as required.
3. Plumb top of Frame to ensure the rough opening allows a 1/4 inch (6mm) clearance.
   a. To ensure proper fit, temporarily shim top of the Frame as required.

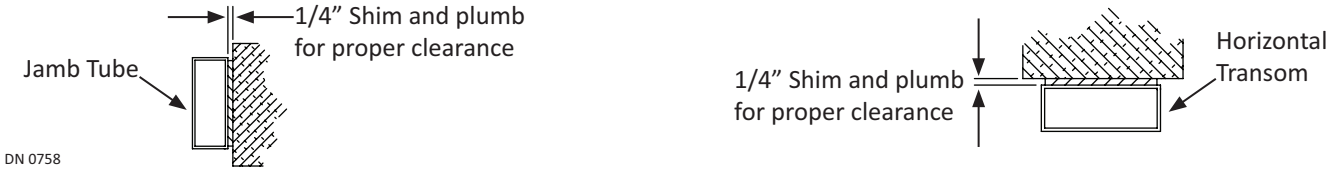

Figure 4-5 Temporarily Shim and Plumb

4. Go to the top of each Vertical Transom. Mark the exact location by drawing a horizontal line onto the ceiling of the rough opening. Please see Figure 4-6.
   a. Do not draw line wider than the Vertical Transom.
   b. It is recommended to use a level for this step.
5. Carefully remove Frame from the Rough Opening. Set aside.
6. Go to the horizontal marked lines located on ceiling. From the center of each line, measure 1 inch (25mm) deep, to mark where the 3/8-16 Concrete Anchor holes will need to be drilled.
   a. It is recommended to use a level for this step.

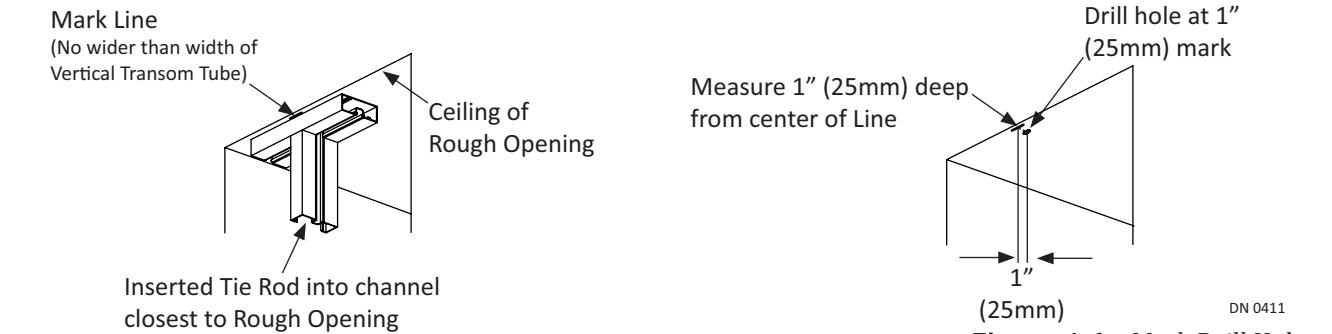

Figure 4-6 Mark Drill Holes

Note: It is recommended to use (1) Tie Rod per Vertical Transom for all units using more then (2) Transom Verticals per Transom Unit.

1. Remove the Back Plate that snaps in/out of each Vertical Transom for easy access to the Tie Rod. Please see Figure 4-7.

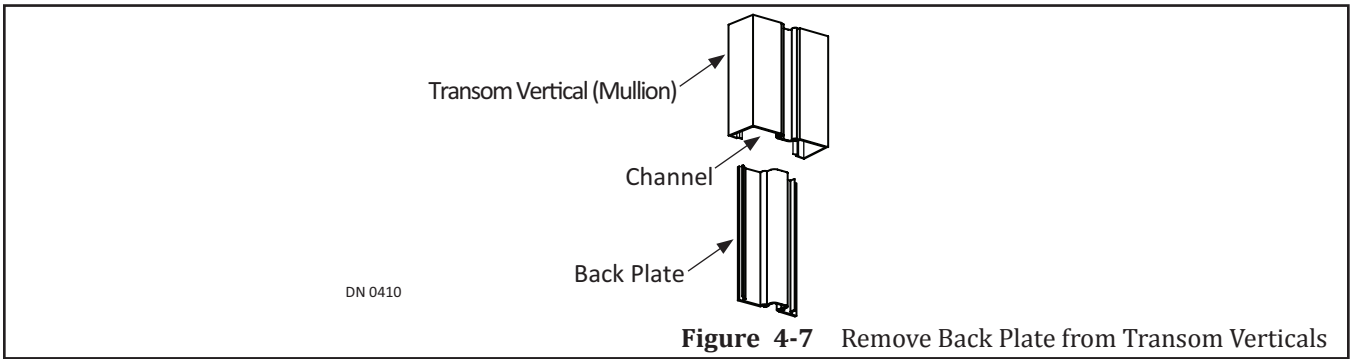

Figure 4-7 Remove Back Plate from Transom Verticals

2. Obtain all Tie Rods and hardware provided by NABCO. Set aside.
   a. There is (1) Tie Rod Parts box per Transom Vertical.
3. Go to the top of the Horizontal Transom. Locate pre-drilled 1 inch (25mm) holes.

4. Insert (1) Tie Rod down each channel that is closest to the Jamb tube. Please see Figure 4-8 and Figure 4-9.
5. Continue to route each Tie Rod through the pre-drilled holes located at the top of Header.
6. Once the Tie Rod is through the Header, loosely attach the Backing Plate, 3/8 inch Washer, 3/8 inch Lock Washer and 3/8-16 Hex Nut (in that order) to the bottom of the Tie Rod. Please see Figure 4-8.
   a. The length of each Tie Rod equals the distance between the top of the Header and the top of the Transom Horizontal, plus 2-5/8 inches (67mm).

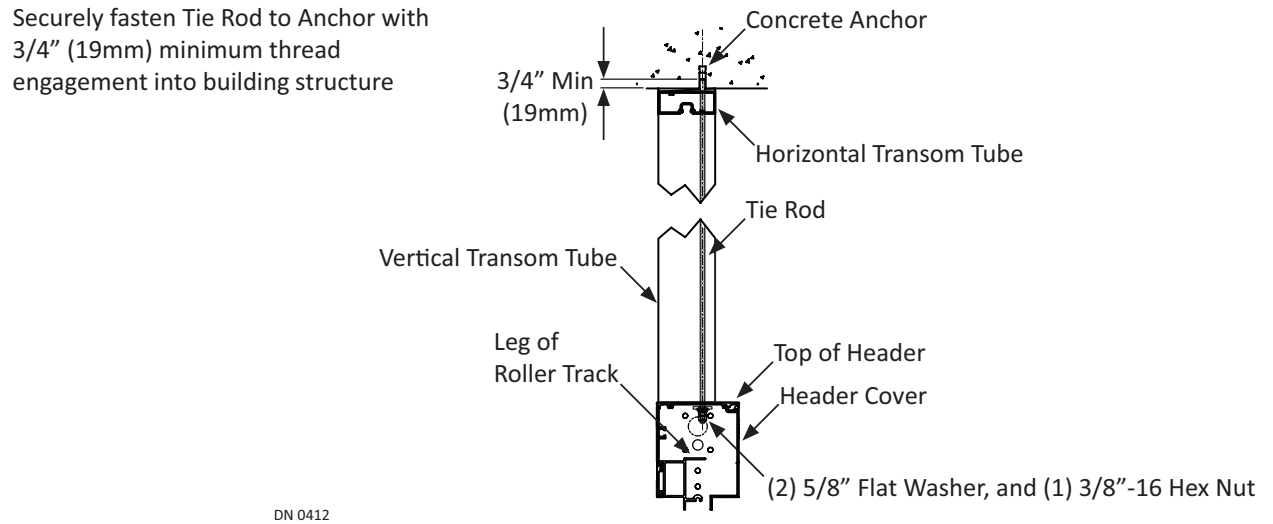

Figure 4-8 Insert the Tie Rod

7. Allow each Tie Rod to rest on the Roller Track "Leg" within the Header. Please see Figure 4-9.
   a. The Tie Rod must remain inside the Vertical Transom until the Frame is fully secured into the Rough Opening.
   b. Tie Rod Installation is completed after the Frame is installed within the Building Opening.

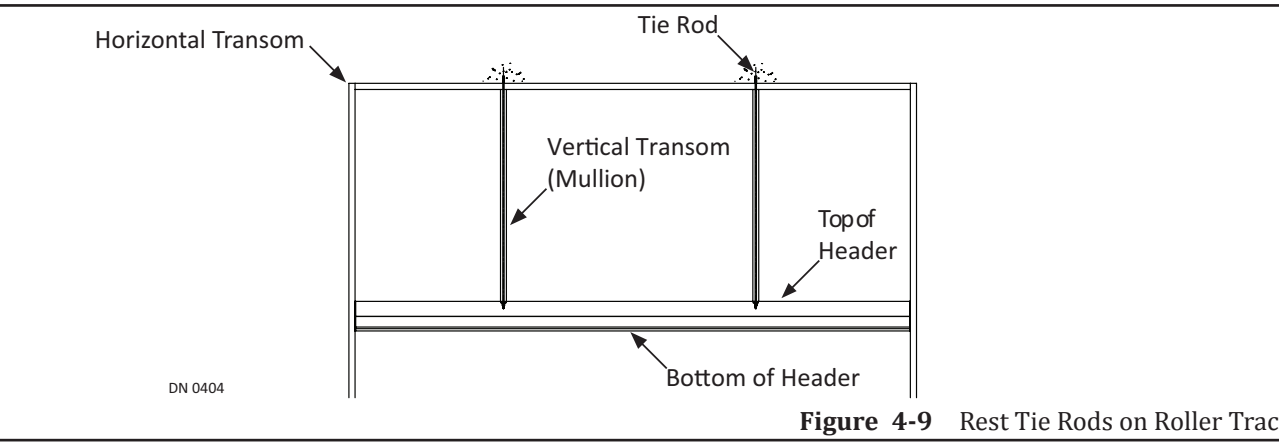

Figure 4-9 Rest Tie Rods on Roller Track

8. Tie Rod Installation is completed after the Frame is installed. Please see Section 5b.

CHAPTER 5: SECURE FRAME TO BUILDING

1. Lift to position the assembled Frame into the rough opening.
   a. Frame may have to be turned around before securing to rough opening.
2. Shim and Plumb Jamb tubes in both planes to ensure the rough opening allows a 1/4 inch (6mm) clearance. Please see Figure 5-1.
3. Shim and plumb the Header or the Transom Horizontal at the top to ensure the rough opening allows a 1/4 (6mm)inch clearance.

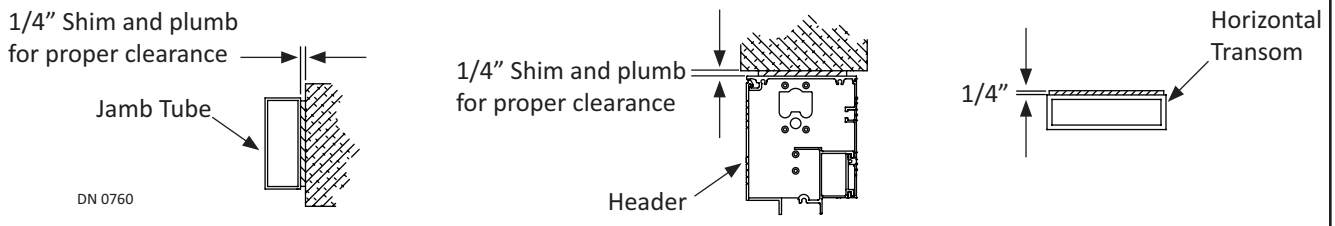

Figure 5-1 Shim and Plumb Frame

Section 5a: Anchor Placements

- Anchors are not provided by NABCO.
- Anchors must be appropriate for the type of structure being fastened to.
- Screw in anchors to secure the Frame (per manufacturer's specifications).
- Ensure anchor heads to not come in contact with edges of glass to prevent breakage.

Figure 5-2 Anchor Placement

Note: It is recommended to countersink holes as required to flush the surface.

Note: It is recommended to drill tap threads for 1/4 inch anchors in a steel or aluminum structure.

Note: If anchor points in structure are known, the aluminum door framing can be predrilled prior to installing into the opening.

Note: Do not overtighten anchors to prevent deforming Jamb tubes.

- Jamb Tubes
  - Use 1/4 inch diameter anchors with a minimum of 3 per Jamb tube, maximum is 48 inches on center. Drill 1/4 inch (6mm) diameter holes in the face of Jamb and then countersink each hole.

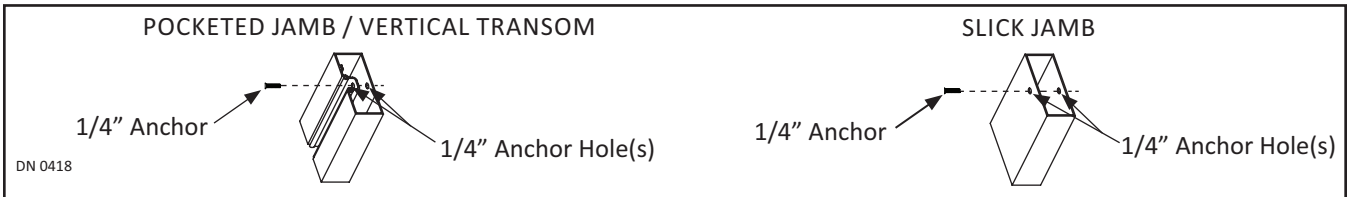

Figure 5-3 Screw Anchors

- Horizontal Transom
  - Use 1/4 inch diameter anchors with a minimum of 3 per Transom tube, maximum is 48 (122mm) inches on center. Anchoring is required within 8 (203mm) inches of all vertical mullions.
  - Drill 1/4 inch (6mm) diameter holes in the face of Transom Horizontal and then countersink each hole.
- Header
  - To prevent Header sag, use 1/4 inch diameter anchors or 3/8 inch threaded rods, with a maximum 48 inches (122mm) on center. First anchor maximum is 36 inches (914mm) from each end of the Header. Drill 1/4 (6mm) inch diameter holes inside the top of Header.

Section 5b: Complete the Tie Rod Installation

1. After the Frame has been installed, slide each Tie Rod up the Channel into each 3/8-16 Anchor located in the ceiling. For detailed information, please refer to Chapter 4.
   a. The 3/8-16 Anchor is used to securely fasten the Frame.
2. Go to the bottom of each Tie Rod. Tighten the 3/8-16 Hex Nut and 3/8 inch Lock Washer to secure the Backing Plate.
3. Snap the Back Plate back into each Vertical Transom.
   a. It may be necessary to use a rubber mallet to slightly tap the Back Plate into place.
   b. Protect the surface of the Back Plate before hitting it with a rubber mallet.

CHAPTER 6: INSTALL THE THRESHOLD

Note: Floor tracks are factory cut to be the same width as the door opening. However, extending the floor track across the entire door opening is optional. To order additional track, please contact customer service at (877) 622-2694.

Note: When ordering Floor Track, requesting Filler Inserts and Threshold Bumpers to be installed at the NABCO Factory is optional.

Standard Floor Tracks vary in width and can be installed two different ways:

- ► Recessed
  - Installed inside a channel that is 1/2 inch (13mm) deep across the full length of the track.
- ► Surface
  - Installed on the surface of the floor with ramps attached to both sides.

Figure 6-1 Recessed vs Surface Track

Section 6a: Surface Floor Track

Note: Do Not permanently secure Floor Tracks until the Slide door has been installed. Failure to do so may cause misalignment.

1. Obtain the Floor Track that was cut to specifications at the NABCO Factory.
2. If not installed, obtain the Filler Inserts and Bumpers provided by NABCO and cut to specifications. Please see Figure 6-2.
3. Install the Filler inserts underneath the Slide Door.
4. Install the Bumpers underneath the Slidelite.
   a. Bumpers keep the Bottom Guide aligned and free from scratches as the Slide door opens/closes.

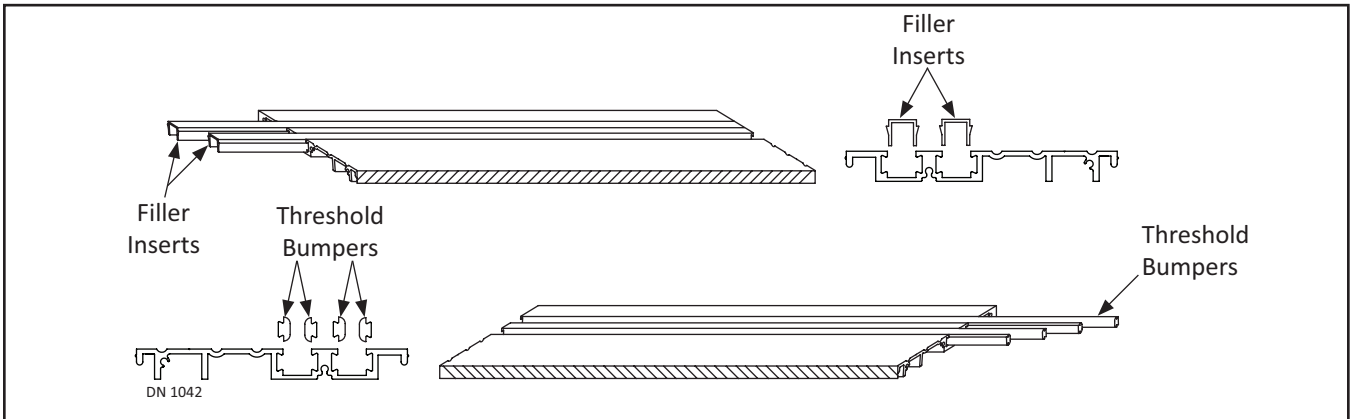

Figure 6-2 Filler Inserts and Threshold Bumpers

5. Snap a chalk line on the floor from Jamb to Jamb. Please see Figure 6-3:
   - ▶ On the Interior side for the:
     - Full Open
   - ▶ On the Exterior side for the:
     - Fixed Sidelite

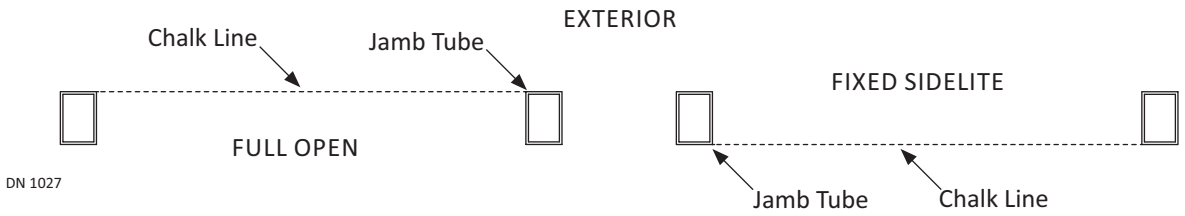

Figure 6-3 Snap Chalk Line

6. Position the Floor Track until the full length is flush with the chalk line.
7. Plumb the Floor Track by hanging a Plumb Bob from the Header. Please see Figure 6-4.

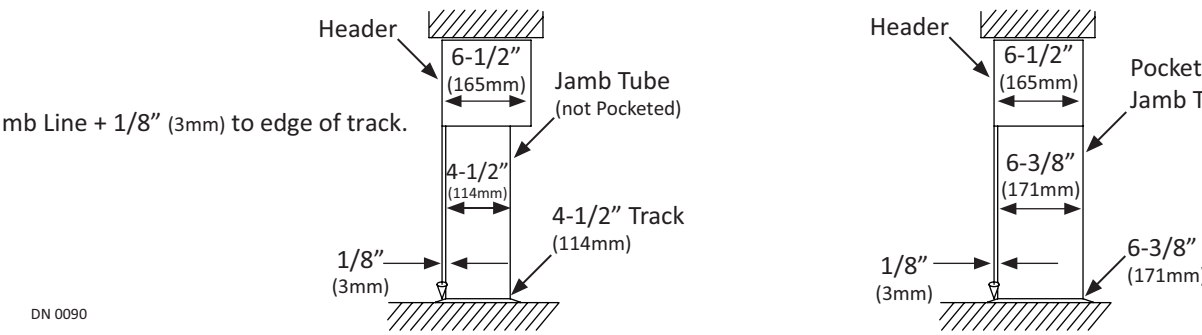

Figure 6-4 Plumb Line

Section 6b: Seal off Exposed End of Floor Track

1. Locate (2) screw splines located on the exposed side of the Floor Track. Please see Figure 6-5.
2. Secure (1) Threshold End Cap to the Floor Track with (2) screws provided by NABCO.
   a. Repeat for other Threshold Cap End Cap (only if Floor Track is exposed on both sides).
   b. Use a 1/8 inch diameter drill bit to make the screw spline bigger if the Threshold End Cap can not be properly secured with the screws provided.

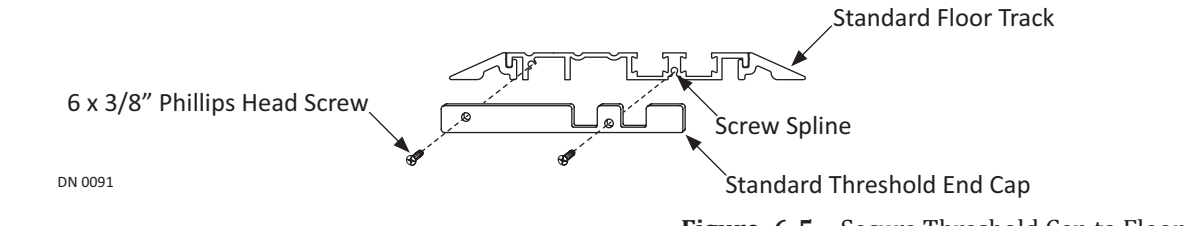

Figure 6-5 Secure Threshold Cap to Floor Track

Section 6c: Recessed Floor Track

1. Snap a chalk line on the floor from Jamb to Jamb on both sides.
2. Create a channel that is 1/2 (13mm) inch deep, full width of Jamb Tubes, and full length of Floor Track. Please see Figure 6-6.
3. Place the Floor Track inside the channel so the full length is flush with the chalk line.

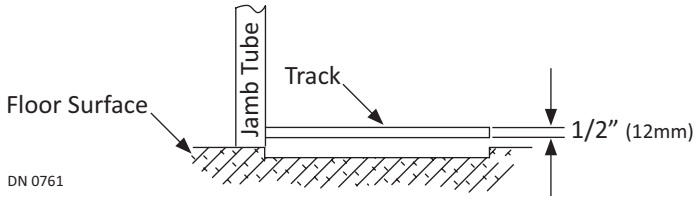

Figure 6-6 Track Recess

Section 6d: Retrofit an Older Installation

To retrofit an older installation with this closeout, please contact customer service at (*1-888-679-3319)* to order the following parts:

- End Cap (P/N 24-9857-10) for Standard Units.
- Screws (PN 24-0094-12)
- If the spline is not in the track, order a new Threshold (P/N 14-9016).

Note: Order one set of the above parts per exposed track.

CHAPTER 7: INSTALL THE SIDELITE

There are (2) Sidelite Configurations:

- Full Open: The Swing Sidelite has breakout capabilities. Both the Swing Sidelite and Slide door must breakout at the same time.
- Fixed Sidelite: The Fixed Sidelite does not have breakout capabilities. Only the Slide door can breakout.

Figure 7-1 Sidelite Configurations

Section 7a: Install the Swing Sidelite (Full Open)

FOR FIXED SIDELITE UNITS SKIP TO SECTION 7B

7.a.a: Install the Bottom Pivot

1. Obtain (1) Bottom Pivot, (1) 1/4-20 x 3/4 inch Flat Head screw, (1) 1/4-20 x 1 inch Self Tapping screw, (1) 1/4-20 x 1/2 inch Self Tapping screw, and (1) Bushing.
2. Go to the bottom of the Pivot Jamb Tube. Insert Bottom Pivot into the Hole. Please see Figure 7-2.
3. Secure the Bottom Pivot to the Pivot Jamb tube with (1) 1/4-20 x 3/4 inch Flat Head screw.
4. Go to the screw hole located in front of the Barrel.
5. Secure the Floor Pivot to the Floor Track with (1) 1/4-20 x 1/2 inch Self Tapping Screw.
6. Insert (1) 1/4-20 x 1 inch Self Tapping screw inside the Barrel. Tighten.
7. Cap the Barrel with (1) Bushing.

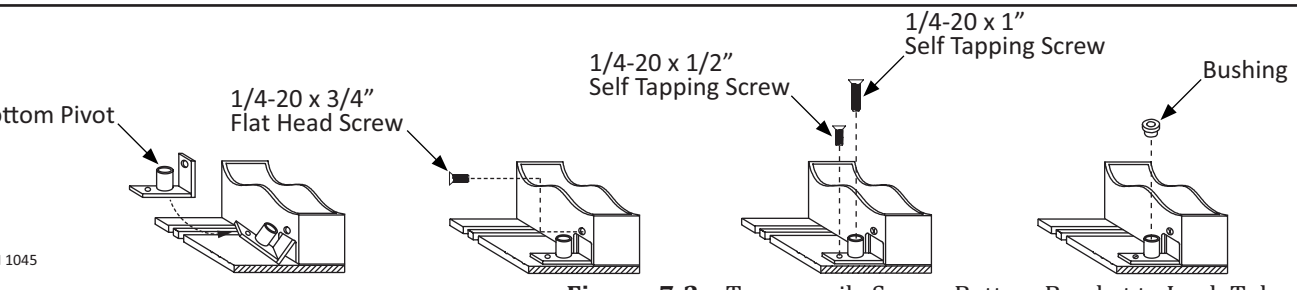

Figure 7-2 Temporarily Secure Bottom Bracket to Jamb Tube

7.a.b: Install the Limit Arm

1. Slide (1) Spacer onto (1) 1/4-20 x 1 inch Red Coated Screw. Please see Figure 7-3.
2. Go to the pre-drilled screw hole located at the bottom of Header.
3. Insert the 1/4-20 x 1 inch (Red) Screw into the hole.
4. Slide (1) 1/4 x 9/16 inch Washer and (1 - 2) 5/15 x 3/4 inch Washers (as required) onto the (Red) Screw.
5. Loosely tighten (just enough to keep the Screw assembly from falling out of the hole).
   a. Limit Arm installation is completed after the Swing Sidelite is fully installed.

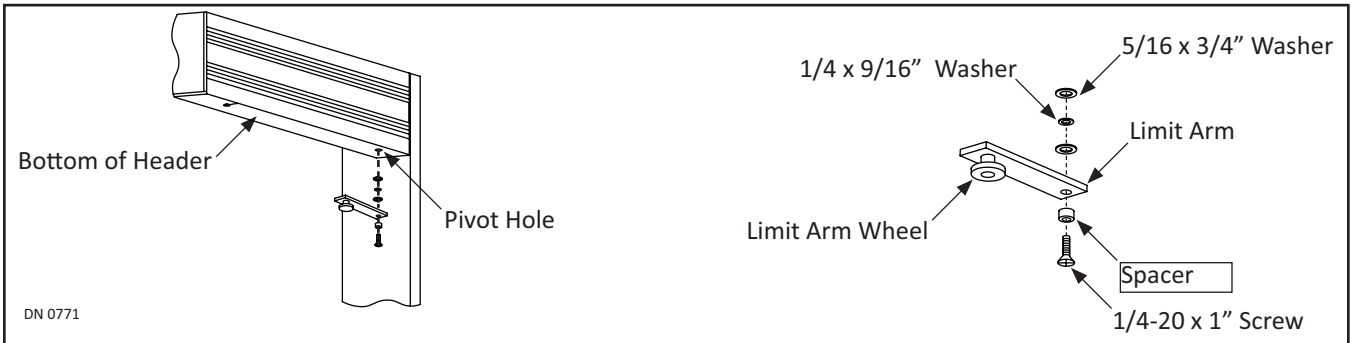

Figure 7-3 Partially Install the Limit Arm

7.a.c: Install Swing Sidelite onto Pivots

1. Insert the Bottom Pivot into the Floor Pivot Barrel. Please see Figure 7-4.
   a. The Bottom Pivot is preinstalled inside the Pivot Stile.

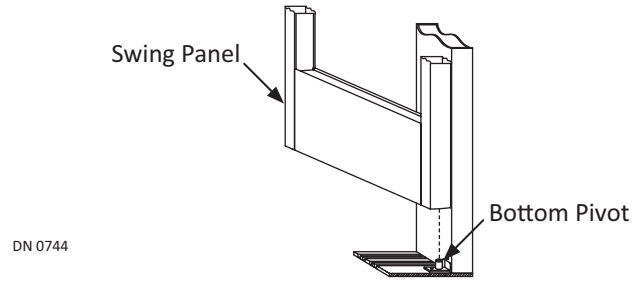

Figure 7-4 Position the Swing Sidelite Panel over the Bottom Pivot at 90° angle

2. Go to the Top Pivot located inside the Pivot Stile. Please see Figure 7-5.
3. Push the Top Pivot down by pressing on the Spring Pin.
4. Align the Top Pivot with the Pivot Hole located at the bottom of Header.
5. Release the Spring Pin to allow the Top Pivot to snap up into the hole.
   a. Ensure the Top Pivot fully engages the hole.
   b. If necessary, use a flathead screwdriver to lift up on the Spring pin until the Pivot Pin is fully seated within the hole.
   c. Ensure not to pinch Cable Wiring.

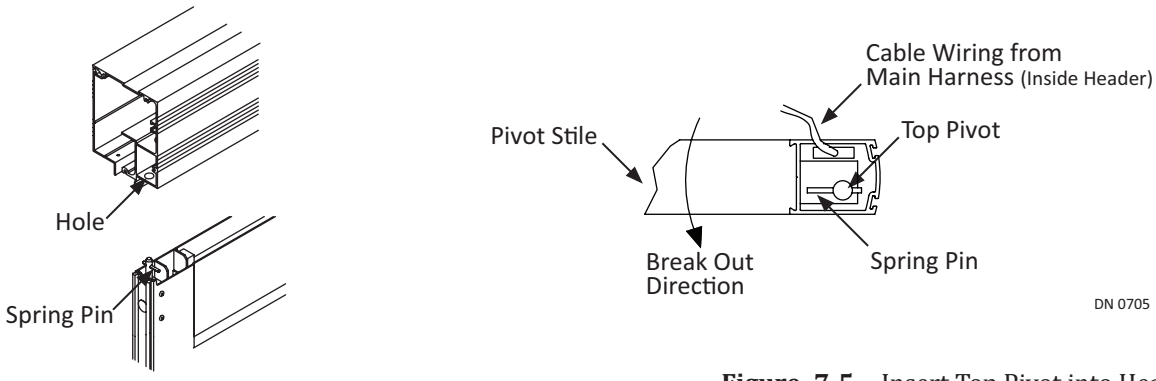

Figure 7-5 Insert Top Pivot into Header

7.a.d: Complete Installation of the Limit Arm

1. Swing open the Swing Sidelite 90 degrees.
2. Align and then rest the Limit Arm inside the Top Rail.
3. Open the Swing Sidelite all the way.
4. Tighten (1) T 1/4-20 x 1 inch Phillips Head screw to secure the Limit Arm to the Header. Please refer to Figure 7-3.

7.a.e: Adjust the Ball Detents

Note: Breakout resistance for Ball Detents must meet ANSI Standard A156.10 or Local Codes.

1. With a 15/16" Open End wrench, loosen the Nut to raise or lower the Ball Detent at Top of Strike Stile so it has light contact with the Bottom Lip of Cover. Please see Figure 7-6.
2. Open and close the Swing Door several times to score the surface on the Bottom Lip of Cover Locate and mark where the Score intersects the center groove.
3. With a 1/4 inch diameter drill bit, drill a screw hole through the Bottom Lip of Cover.
   a. Countersink the screw hole to be 3/8 inch x 82°.

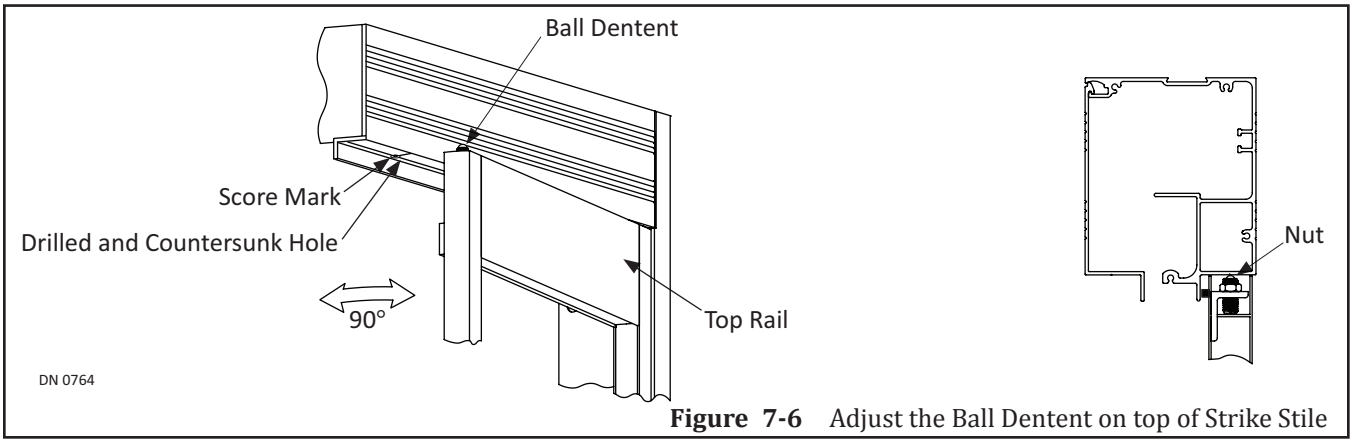

Figure 7-6 Adjust the Ball Dentent on top of Strike Stile

4. With a 5/8" Open End wrench, loosen the Nut to raise or lower the Ball Detent at Bottom of Strike Stile so it has light contact with the Floor Track. Please see Figure 7-7.
5. Open and close the Swing Door several times to score the surface on the Floor Track. Locate and mark where the Score intersects the center groove.

6. With a 1/4 inch diameter drill bit, drill a hole through the Floor Track (Just deep enough for the Ball Dentent to fit within). Countersink the screw hole to be 1/4 inch x 82°.

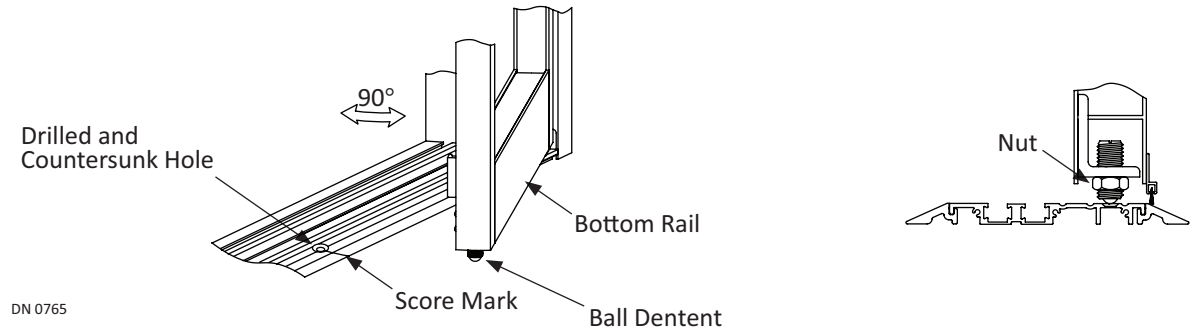

Figure 7-7 Adjust the Ball Dentent on bottom of Strike Stile

7. Close and then break open the Swing door to test fit both Ball Detents.
   a. Increase hole size and countersink size until a satisfactory fit is obtained.
   b. Do Not over-drill the hole. If hole is overdrilled the Floor Track will need to be replaced.
8. For additional travel remove the Ball Detent Bracket to lower or raise the Ball Detent. Please see Figure 7-8.

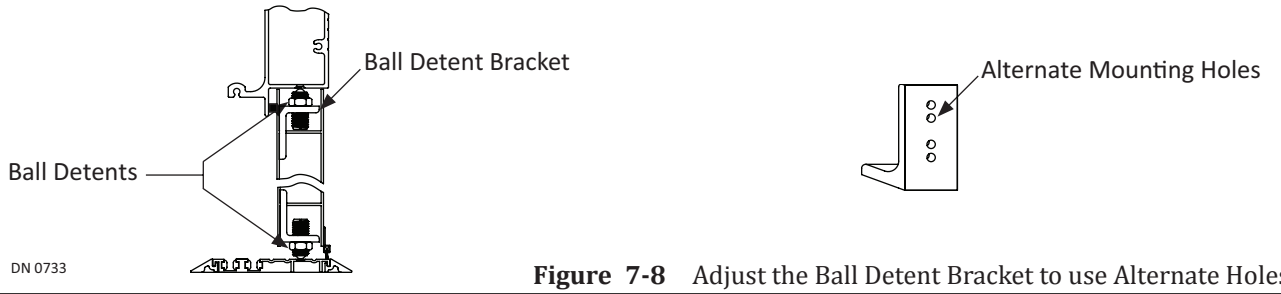

Figure 7-8 Adjust the Ball Detent Bracket to use Alternate Holes

Section 7b: Install the Fixed Sidelite

1. Obtain (1) 1/4-20 x 1/2 inch Flat Head Screws provided by NABCO.
2. Go to the Strike Stile located on the Strike side of the Fixed Sidelite.
3. Locate the Cut Out at the Top. Please see Figure 7-9.
4. Locate (1) Mounting Bracket that was preinstalled under the Bottom Lip of Header.
5. Lift and then angle the Fixed Sidelite until the Mounting Bracket is seated inside the Cut Out.
   a. There is room inside the Strike Stile for the Mounting Bracket to move around within.
   b. Move the Fixed Sidelite forward so the Pivot Stile does not scrape up against the (2) Mounting Brackets that were preinstalled on the Pivot Jamb Tube.

Figure 7-9 Slide Mounting Bracket into Cut Out

6. Locate (2) Cut Outs on the side of the Pivot Jamb Tube. Please see Figure 7-10.
7. Align and then slide the Fixed Sidelite until (2) Mounting Brackets are seated inside each Cut Out.
8. Continue to slide the Fixed Sidelite towards the Interior of the Building until both Mounting Brackets butt up against the inside wall of the Pivot Stile.
9. Align all (3) Mounting Bracket screw holes with the Pivot Stile screw holes and the Strike Stile screw hole.
10. Secure (2) Mounting Brackets located on the Pivot Jamb Tube to the Fixed Sidelite with (2) 1/4-20 x 1/2 inch Flat Head screws provided by NABCO.
11. Secure (1) Mounting Bracket located under the Bottom Lip of Header with (1) 1/4-20 x 1/2 inch Flat Head Screw.

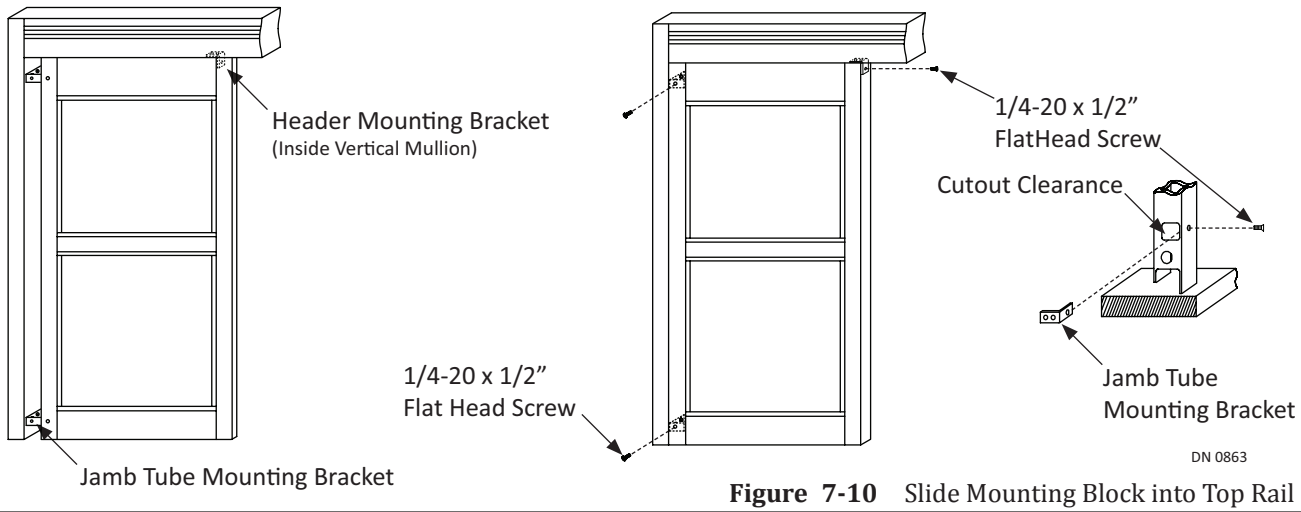

Figure 7-10 Slide Mounting Block into Top Rail

12. Snap a chalk line between Jamb tubes in front of Sidelite Panel. Please see Figure 7-11.
    a. If the Sidelite Panel runs parallel to the chalk line it is square.
13. Secure the Fixed Sidelite Panel to the Mounting Brackets with (3) 1/4-20 x 1/2 inch Flat Head Screws. Please see Figure 7-11.
    a. If the Sidelite Panel is not parallel to the chalk line make necessary adjustments until it is.

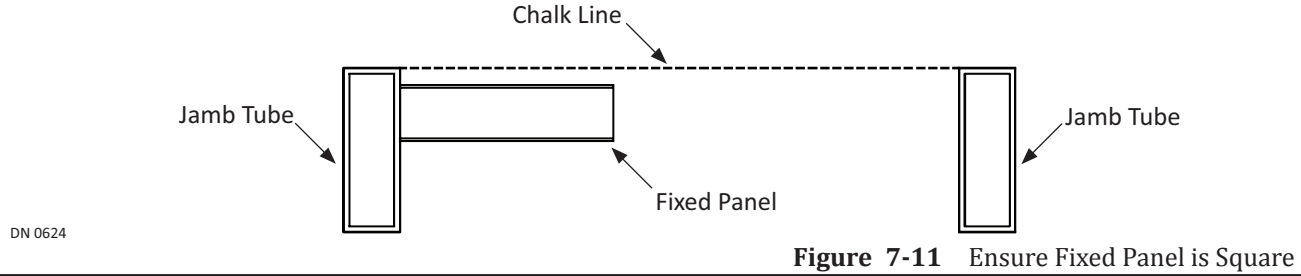

Figure 7-11 Ensure Fixed Panel is Square

7.b.a: Install the Roller Assembly

1. Go to the bottom of the Strike Stile.
2. Remove (2) 1/4-20 x 3/4" Phillips Head Screws to remove the Cover Plate. Please see Figure 7-12.

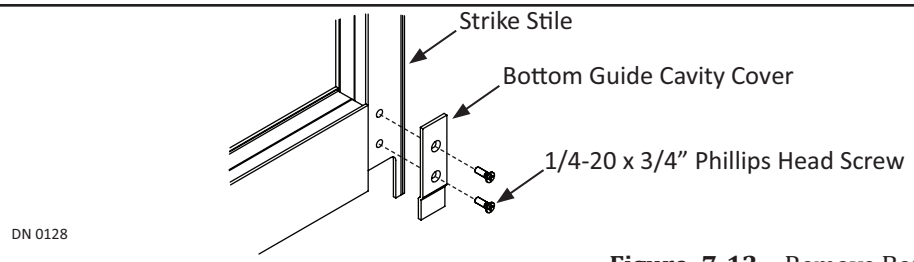

Figure 7-12 Remove Bottom Guide Cover

3. Obtain the Roller Assembly provided by NABCO.
   a. For Bi-Part Slide doors a Left Hand and a Right Hand Bottom Guide will be provided. Be sure to select the Roller Assembly that corresponds to the right side or the left side of door.
4. Install the Roller Assembly by sliding (2) rollers into the Bottom rail so the bracket sticks out from underneath in direction of where the Slide door is to be installed. Please see Figure 7-13.
   a. Push rollers back into Bottom Rail so the Floor Bracket can be installed.
5. Replace the Cover Plate.

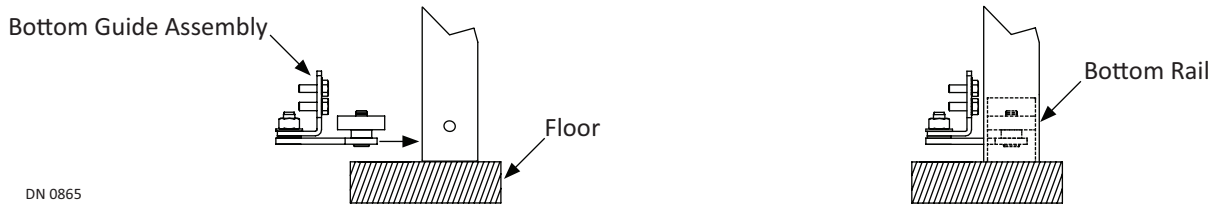

Figure 7-13 Slide Bottom Guide Assembly into Bottom Rail

7.b.b: Install the Floor Bracket

1. Obtain (1) Floor Bracket, (2) #14 x 1-1/2 inch screws, and (2) #14 x 1 inch Blue Anchors provided by NABCO.
2. Insert the Floor Bracket into the Bottom Rail so the plate portion with (2) screw holes sticks out from underneath in direction of where the Slide door is to be installed. Please see Figure 7-14.
3. Secure the Floor Bracket to the Strike Stile with (1) 1/4-20 x 1/2 inch Phillips Head screw.
4. With a 5/16 inch Masonry Drill Bit drill (2) anchor holes into floor at least 1 inch deep.
5. Insert (2) #14 x 1 inch anchors into drilled holes.
6. Secure Floor Bracket to floor with (2) #14 x 1-1/2 inch Flat Head screws.
7. Secure the Cover Plate back onto the Strike Stile with (2) 1/4-20 x 3/4" Phillips Head Screws.

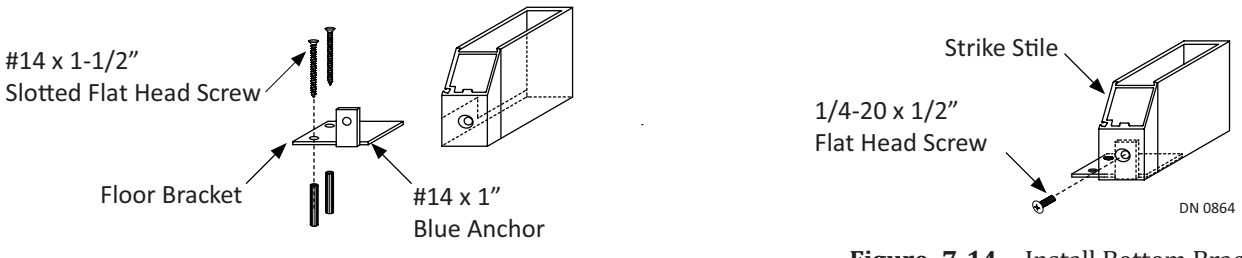

Figure 7-14 Install Bottom Bracket

CHAPTER 8: INSTALL THE SLIDE DOOR

CAUTION **Do not test Breakout until all adjustments are made and doors are secured.**

Section 8a: Lift Carrier onto Track

1. Cover the Sidelite Panel with cardboard on the side that will face the Slide door.
2. Go to the Carrier located on top of the Slide door. Please see Figure 8-1.

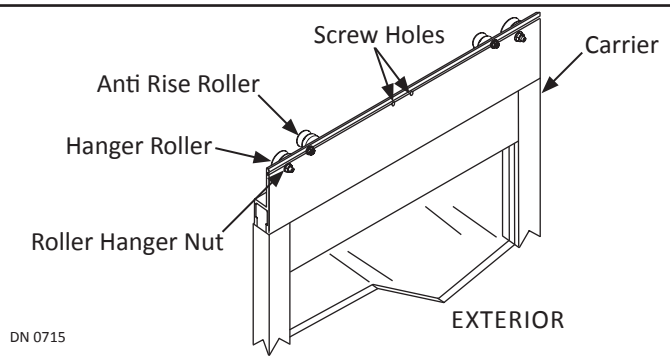

Figure 8-1 Carrier with Rollers

CAUTION **Do not rotate the Roller Axle counter-clockwise. Doing so will unthread the Axle from the Roller Assembly.**

3. Loosen (1) Nut on each Roller by inserting (1) 7/32" Allen wrench into the exposed end of a Roller Axle. Hold the 7/32 inch Allen wrench in place to keep the Roller Axle stationary. At the same time, loosen (1) 7/16-20 Whizlock nut with a 15/16 inch Open End Wrench.
4. Slightly tilt the Slide door to make it easier for the (4) Rollers to 'catch' onto the track. Please see Figure 8-2.
5. With Slide door tilted install the Carrier onto the Track.

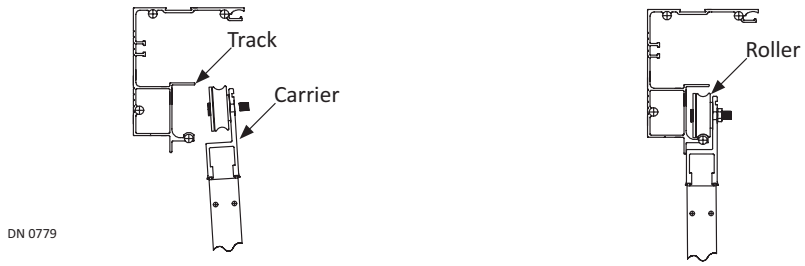

Figure 8-2 Install Carrier onto Track

Section 8b: Secure Belt Clip to Carrier

1. Align (2) Carrier screw holes to the Belt Clip screw holes that was pre-installed within Header. Please see Figure 8-3.
2. Secure the Belt Clip with (2) 1/4-20 x 3/4 inch machine screws provided by NABCO.

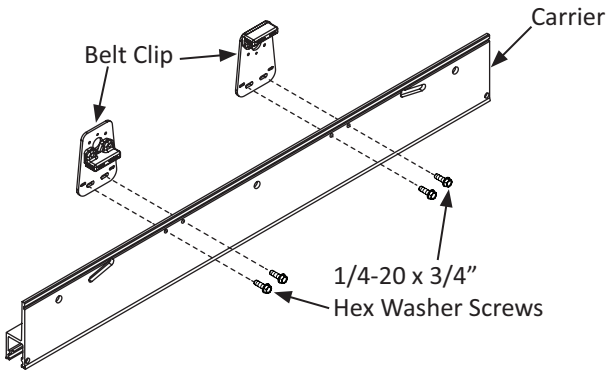

Figure 8-3 Secure Belt Clips to Carrier

Section 8c: Install Bottom Guide Assembly (Fixed Sidelite)

FOR UNITS USING A SWING SIDELITE SKIP TO SECTION 8D

1. Go to the Bottom Rail of Sidelite/Wall Track.
2. Locate the Roller Assembly. The Bracket will be sticking out from underneath. Please see Figure 8-4.

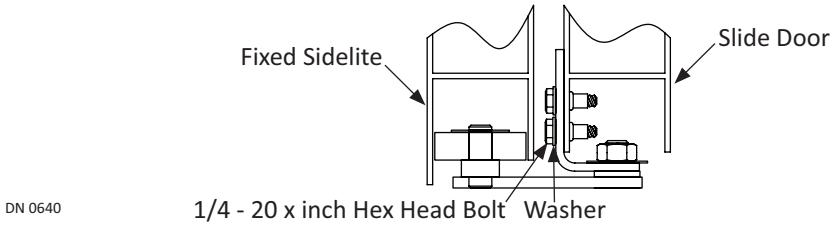

Figure 8-4 Install Sliding door to Bottom Guide Assembly

3. Slide the door onto the Bracket portion of the Roller Assembly.
4. Support the weight of the Fixed Sidelite.
5. Breakout door to Full Open position.
   a. The Slide Door must never come into contact with the Sidelite/Wall Track.
6. Line up (2) Bracket screw holes to (2) screw holes located on the Bottom Rail of Slide door.
7. Secure Bracket to the Bottom Rail with (2) Washers and (2) 1/4 - 20 x 1 inch Hex Head bolts.

Section 8d: Install Bottom Guide Assembly (Swing Sidelite)

FOR UNITS USING A FIXED SIDELITE SKIP TO SECTION 8E

1. Locate the Bottom Guide Assembly that was preinstalled inside the Strike Stile.
2. Lift up the Prongs until the Bottom Guide is directly above the Guide Channels.
3. Allow the Prongs to drop down into the Guide Channels. Please see Figure 8-5.

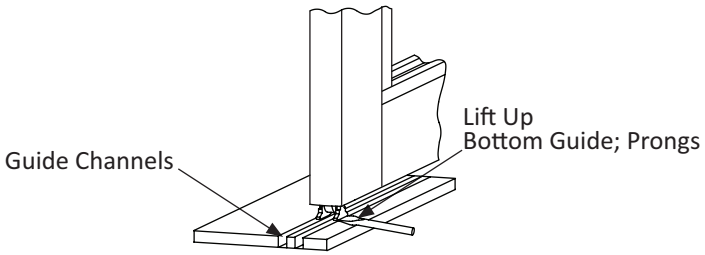

Figure 8-5 Drop Prongs into Channel Guides

Section 8e: Adjust Carrier Rollers

8.e.a: How to Loosen a Roller

CAUTION **Do Not rotate the Roller Axle counter-clockwise. Doing so will unthread the Axle from the Roller assembly.**

1. To loosen a Roller, insert a 7/32" Allen wrench into the exposed end of a Roller Axle. Please see Figure 8-6.
2. Hold the 7/32" Allen wrench in place to keep the Roller Axle stationary. At the same time, loosen (1) 7/16-20 Whizlock nut with a 5/8" Open End Wrench.

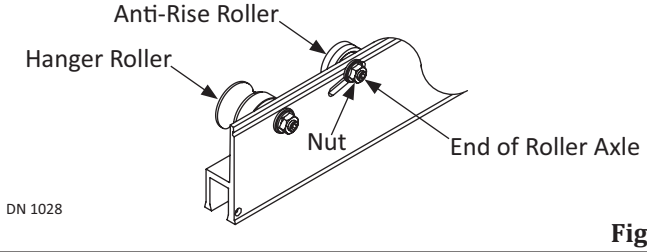

Figure 8-6 Loosen Carrier Rollers

8.e.b: Hanger Rollers

Hanger Rollers are used to:

- Evenly distribute weight of the Slide door.
- Adjust height of the Slide door.
- Adjust the Leading edge of the Slide door at the top and bottom so it is parallel to another Slide Door (Bi-Part), or the Strike Jamb Tube (Single), and the Header.

1. Loosen (2) Hanger Rollers located next each Anti-Rise Roller. Please see Figure 8-7.

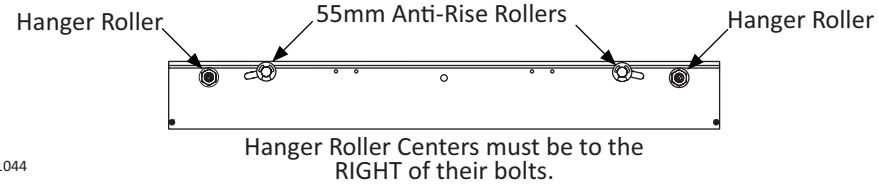

Figure 8-7 Door Adjustment

2. Raise or lower the Slide door by turning the Axle clockwise with a 5/8" Open End Wrench.
   a. The appropriate gap between the Bottom Rail and floor is between 11/16 inch (17mm) to 15/16 inch (24mm); with the nominal gap being 7/8 inch (22mm).

3. Ensure the Leading Edge of the Slide door and (other Slide door or Jamb Tube) are parallel. Please see Figure 8-8.
4. Ensure the Leading Edge of the Slide door and Header are parallel.
5. Retighten the 7/16-20 Whizlock nuts. Do not overtighten.

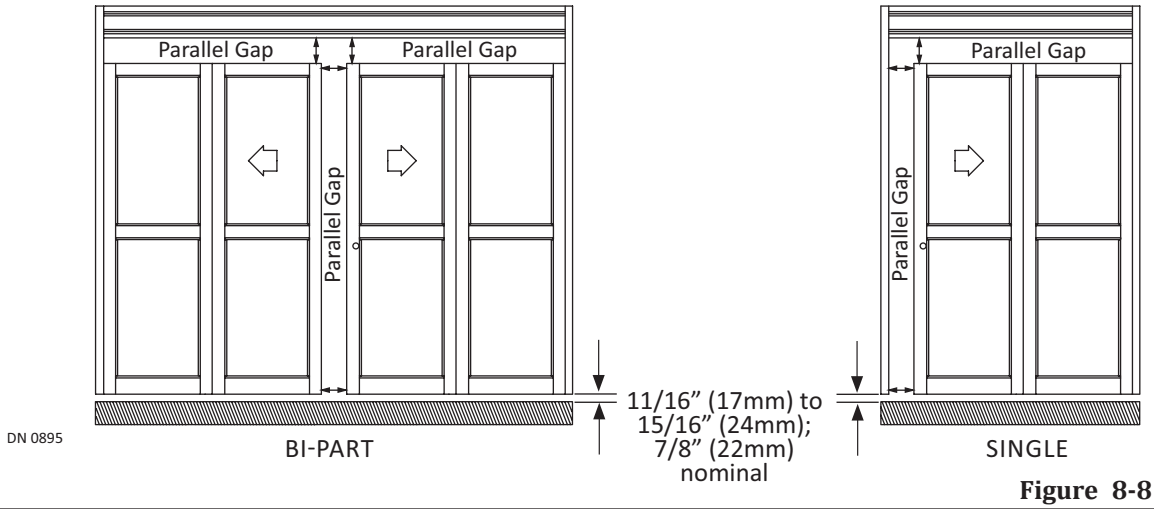

Figure 8-8 Floor Gap

6. Loosen (2) Anti-Rise Rollers located towards the middle of the Carrier. Please refer to Figure 8-9.
7. Slide the Anti-Rise Roller up or down within the slot until there is 1/64 inch to 1/32 inch gap between the Roller Wheel and the Top Track. Please see Figure 8-9.
   a. Gap should be about the same thickness as a credit card.
8. Retighten the 7/16-20 Whizlock nuts. Do not overtighten.

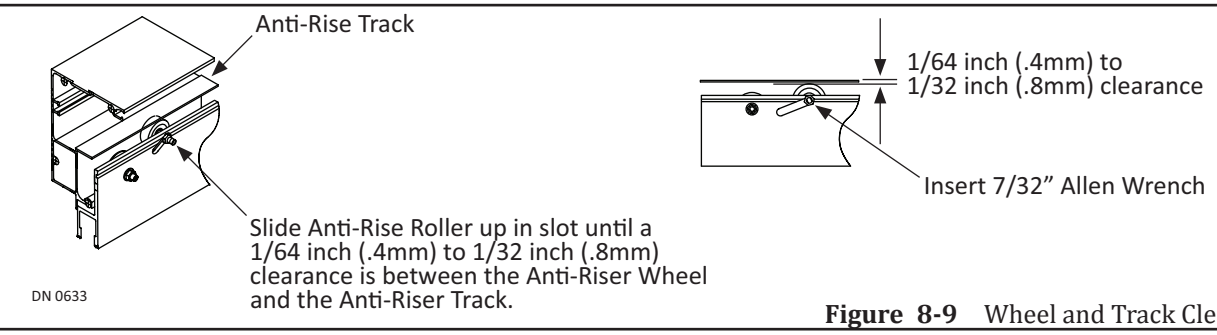

Figure 8-9 Wheel and Track Clearance

Section 8f: Secure the Floor Track

FOR UNITS NOT USING A FLOOR TRACK SKIP TO SECTION 8G

1. Obtain #10 x 1-1/2 inch sheet metal screws and #6 Green Anchors provided by NABCO.
   a. The number of provided screws and anchors depends upon length of Floor Track.
2. Go to a metal strip that is used to divide the Filler Inserts. Please see Figure 8-10
3. Go to each end of Floor Track. Mark (1) drill hole approximately 4" (102mm) from each edge.

4. Count how many screws are left. Mark remaining drill holes to be evenly spaced.

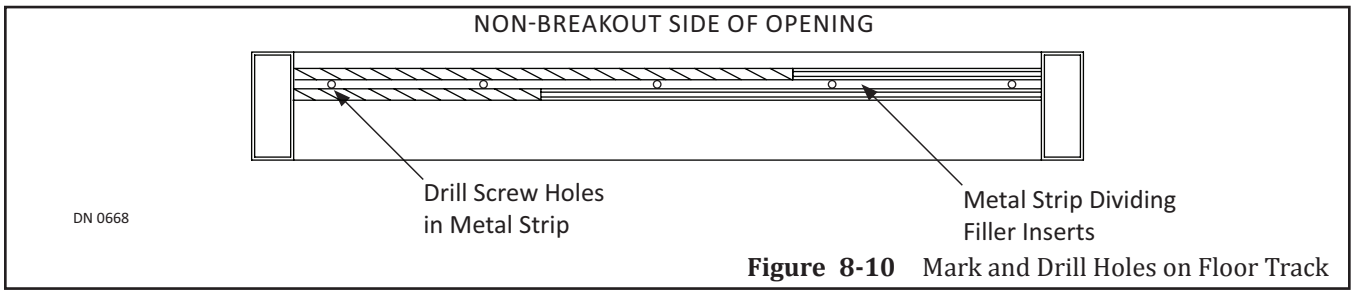

Figure 8-10 Mark and Drill Holes on Floor Track

5. With a 1/4 inch masonry drill bit, drill through the Floor Track and into the floor no less than 1-1/2 inch (38mm) deep.
6. Insert plastic anchors into the drilled holes. Please see Figure 8-11.
7. Secure the Floor Track with #10 x 1-1/2 inch sheet metal screws.

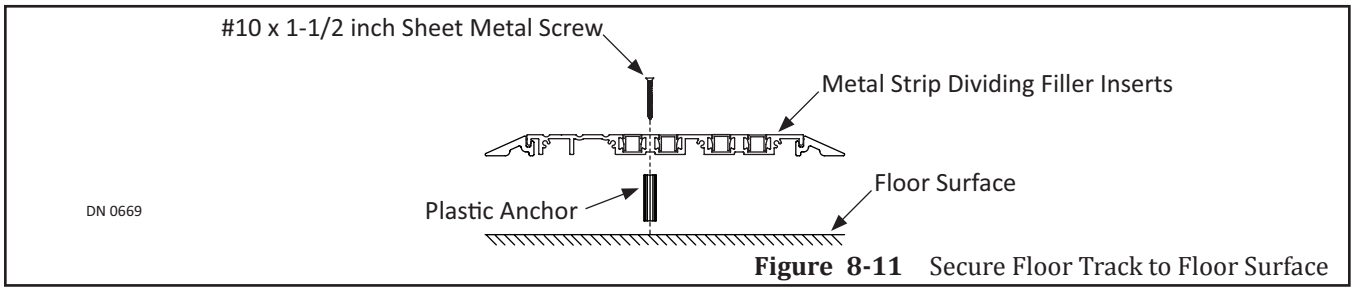

Figure 8-11 Secure Floor Track to Floor Surface

Section 8g: Adjustments

8.g.a: Adjust the Interlock

1. Obtain (1) package containing Shim and Roll Pins that was taped to door by NABCO.
2. Slide (1+) shim under the Interlock until proper engagement can be obtained. Please see Figure 8-12.
3. Go to the Interlock. Loosen the mounting screws.

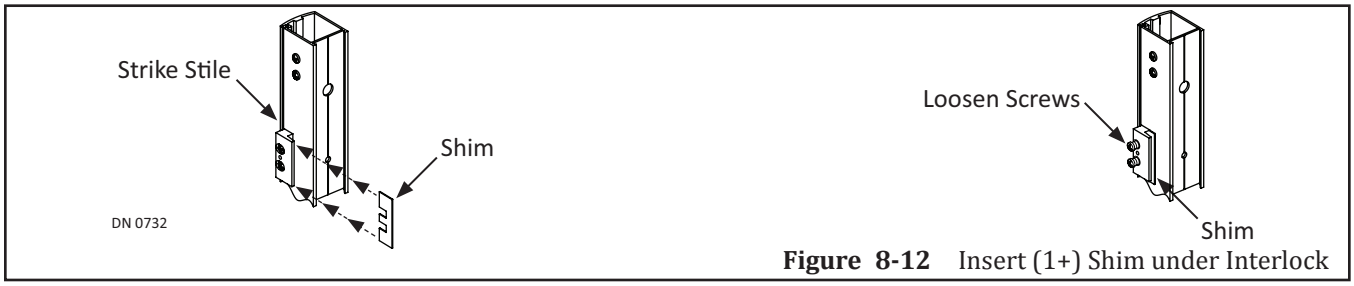

Figure 8-12 Insert (1+) Shim under Interlock

4. Manually close each Slide Door. Please see Figure 8-13.
   a. Loose Interlocks automatically adjust to proper position.
   b. It may be necessary to remove some brush from the back side of the Interlock with a pair of scissors.
5. Lock Shim in Place.

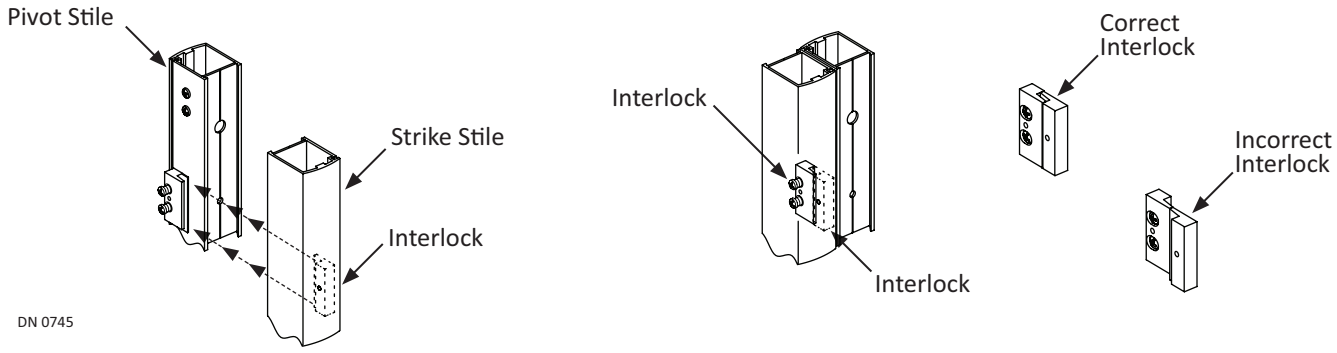

Figure 8-13 Close Door to Adjust Interlocks

6. With a 1/8 inch Drill Bit, drill a hole through the Interlock and Shim and Strike Stile.
7. Secure the Shim to the Interlock by inserting (1) Roll Pin into the 1/8 inch (3mm) hole. The Roll Pin may need to be pounded into the 1/8 inch (3mm) hole. Please see Figure 8-20.
   a. Interlocks should not come in contact with door rail surface upon opening/closing.

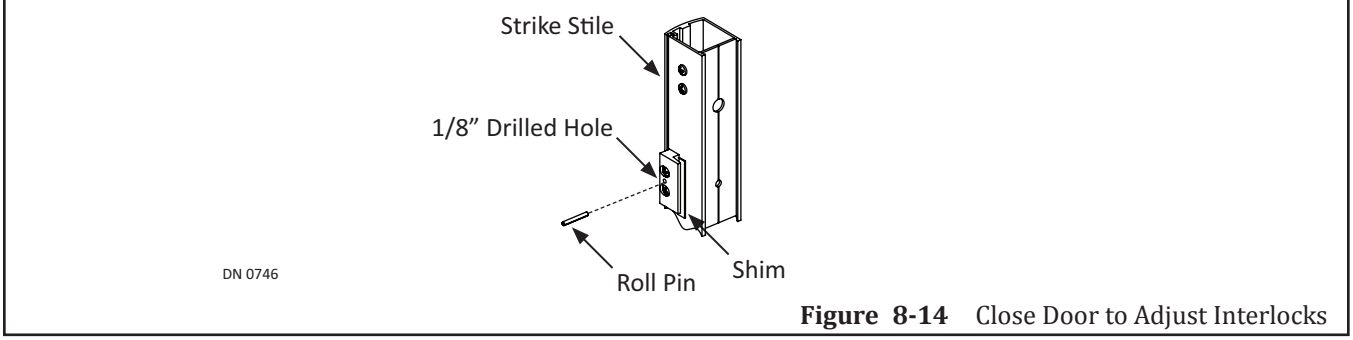

Figure 8-14 Close Door to Adjust Interlocks

Section 8h: Adjust Preload

Note: Glass must be installed first before adjusting the Preload on Slide Door.

1. Support the weight of Slide Door. Then Breakout approximately 5 degrees.
   a. Just enough to expose the Preload Adjustment Screw located on back edge of door.
   b. Fixed sidelite must not come into contact with other doors.
2. Check for door sag. Please see Figure 8-15.

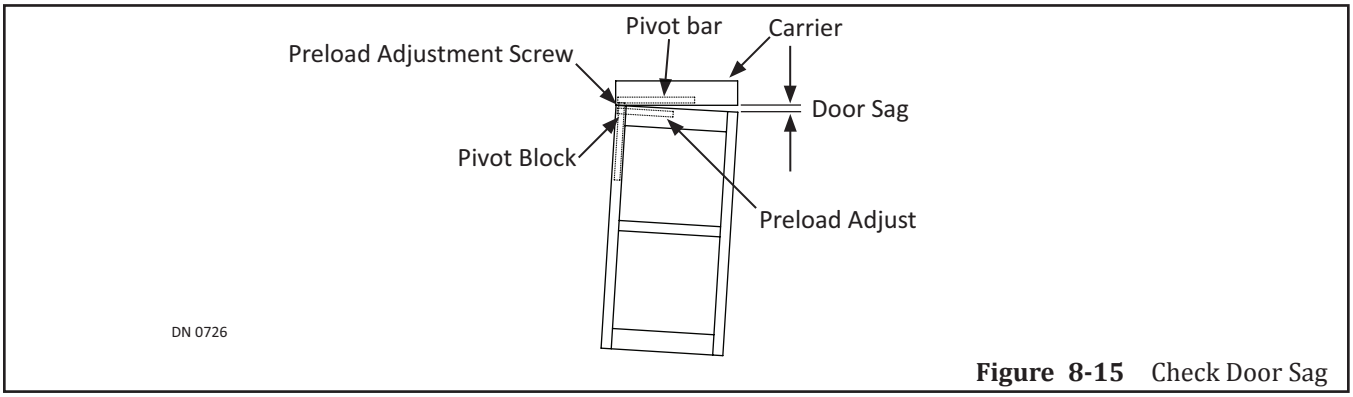

Figure 8-15 Check Door Sag

3. Go to the Preload Block located inside Top Rail. Please see Figure 8-16.
4. Loosen (2) Locking Bolts.
5. Go to the back edge of Pivot Stile. Reduce Door sag by tightening the 5/16 inch Adjustment Set Screw with an 5/32 inch Allen Wrench.
   a. The Door should latch without having to be manually lifted.
   b. Do Not allow the Adjusting Set Screw to protrude more than 5/32 inches (4mm) past the end of stile.
   c. If deemed necessary: an optional 1/2 inch Set Screw has been provided by NABCO.

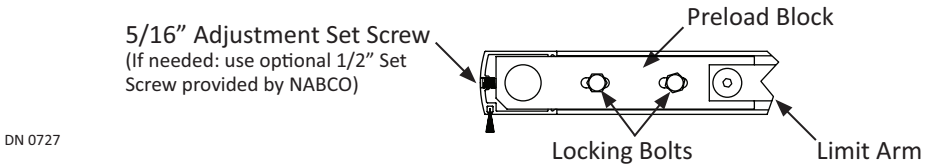

Figure 8-16 Adjust the Preload

8.h.b: Correct Preload Misalignment

If Preload results in a misalignment of the Strike end of the door and hanger; continue with the following instructions.

1. Loosen the Allen head fasteners in the pivot bar and slide the pivot bar in the hanger until the door and hanger are properly aligned. Please see Figure 8-17.
2. Verify that the panic catch in the top rail of the door and the hanger are still aligned.
3. If necessary loosen the set screws for the panic catch in the hanger and reposition to align with the panic catch in the top rail.

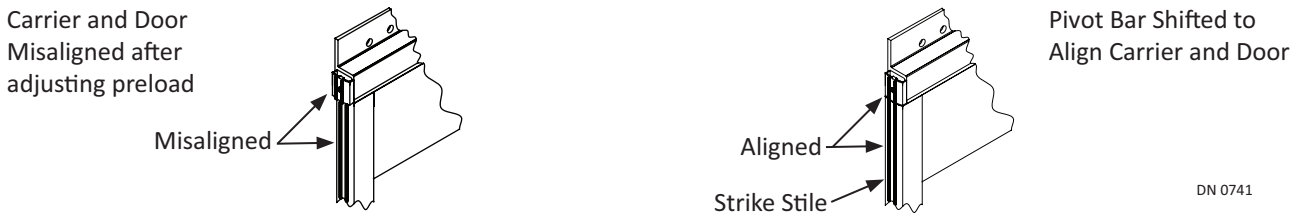

Figure 8-17 Correct Preload Misalignment

Section 8i: Adjust the Ball Plunger

1. Breakout the Slide door.
   a. Slide Door may have to be lifted.
   b. Top rail may have to be hit with a rubber mallet. In that event, protect the surface first.
2. Remove (2) 1/4-20 x 1-1/4 inch Socket screws that are used to secure the Allen Block to the Top Rail. Please see Figure 8-18.

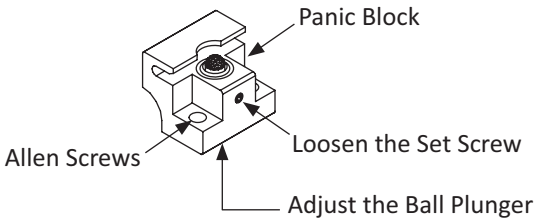

Figure 8-18 Panic Adjustment

3. Loosen the Set screw that is located in front of the Panic Block.
   a. Adjust the Ball plunger down, so Panic Catch does not engage if Panic Hardware is used.
4. Raise or lower the Ball plunger located underneath the Panic Block.
   a. The Ball plunger must be adjusted for proper breakout resistance to meet ANSI A156.10 code or local code.
5. Tighten the Set screw.
6. Reinstall the Panic Block and tighten the two Allen screws that were saved for reinstallation.
   a. Save Allen screws.
7. Repeat if necessary.

Section 8j: Adjust the Breakout Magnet

1. Line up the Breakout Magnet with the Magnetic Reed Switch. Please see Figure 8-19.
   a. The Magnetic Reed Switch is a 3/8 inch diameter black circle.

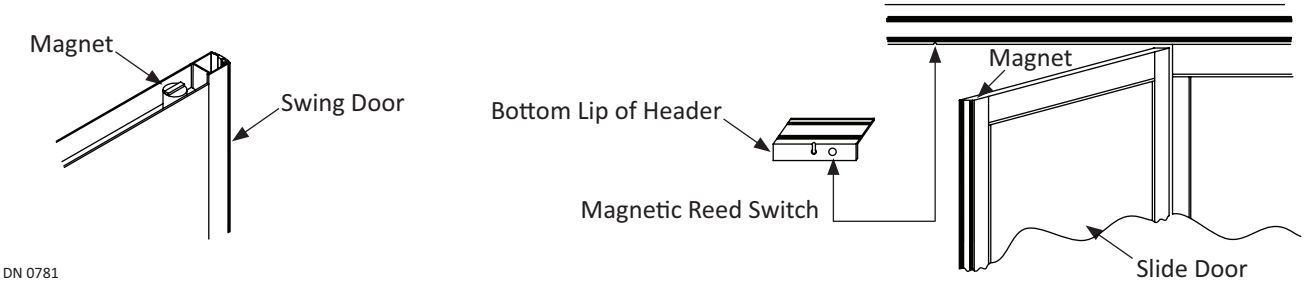

Figure 8-19 Breakout Magnet Location

Section 8k: Units 54 Inches Wide (or greater) and/or over 200 Pounds

1. Go to the Bottom Rail. Remove (1) End Cap.
2. Break Open the Slide door.
3. Locate the Nose Caster that was pre-installed within the Strike Stile. Please see Figure 8-20.

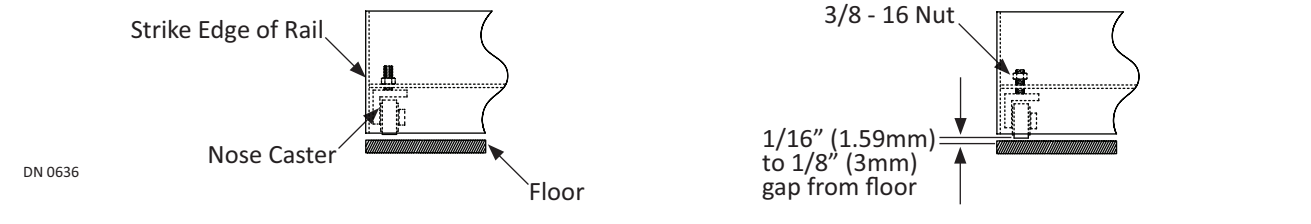

Figure 8-20 Adjust the Nose Caster

4. Loosen the #8-32 Set Screw. Position the Wheel so it is perpendicular to the Bottom Rail.
5. Retighten the #8-32 Set Screw.
6. Fully close the Slide door.
7. Ensure the Nose Caster does not hit or scrape the floor.
   a. If Slide door hits or scrapes the floor make necessary adjustments to Nose Caster.
8. Reinstall the End Cap.

CHAPTER 9: INSTALL WEATHERING

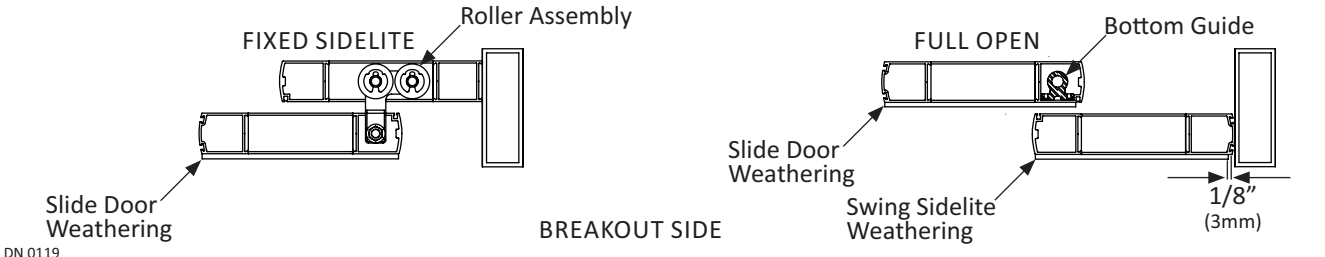

Figure 9-1 Weathering Placement

Note: Ensure the Brush Holder is level and square before securing to doors.

1. Obtain Brush Holders and Brushes provided by NABCO.
2. Install Brush by sliding it into the Brush Holder.

Section 9a: Fixed Sidelite

1. Secure the Brush Holder against the Bottom Rail of Slide door with (3) #6 x 1/2 inch self tapping screws.

Section 9b: Full Open

1. Secure the Brush Holder against the Bottom Rail of Swing Sidelite with (3) #6 x 1/2 inch self tapping screws.
   a. It is recommended to leave at least a 1/8 inch (3mm) gap between the Edge of the Pivot Stile and the Brush Holder. Please see Figure 9-1.
   b. Allow 1/8 inch Vinyl to extend past the Brush Holder so the gap is filled.
   c. Failure to do so, will cause the Brush Holder to damage the Pivot Jamb Tube and/or keep the Swing Sidelite from opening.
2. Breakout the Swing Sidelite.
3. Secure the Brush Holder against the Bottom Rail of Slide door with (3) #6 x 1/2 inch self tapping screws.

Section 9c: Apply Caulking Bead

1. Ensure the entire Door Frame is properly secured to the Rough Opening.
2. Apply caulking bead between the Door Frame and Rough Opening (inside and outside). Please see Figure 9-2.

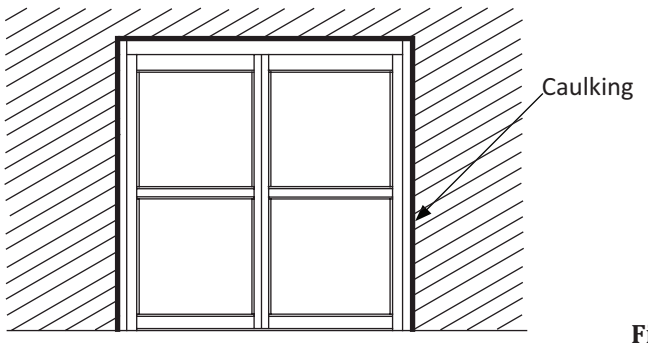

Figure 9-2 Caulk Position

CHAPTER 10: WIRE THE SWITCH ASSEMBLY

Note: Do not secure the Switch Assembly to the Jamb Tube until after the Slide door installation is complete.

Note: The U30 Microprocessor Control, Main Harness comes in three lengths: 36 inches, 72 inches, and 80 inches. The length used is dependant upon the type of installation.

There are (2) Standard Switch Assemblies that are both installed the same way:

- Rocker Switch; P/N 14-11876-**
- Key Switch; P/N 14-11875-**

1. Go to the Header. Remove the Switch Assembly Parts box. Set Aside.
2. Go inside the Header. Locate the Pin wiring that is attached to the U30 Microprocessor Control, Main Harness.
3. Draw the Pin wiring through a hole located at the side of Header and Jamb Tube. Continue to route down the Jamb Tube.
4. Pull the Pin Wiring through the cut out.
5. Obtain (1) loose 5 Circuit Pin Housing from the Parts Box.
6. Insert each Pin into the 5 Circuit Pin Housing accordingly:
   a. 1 = Red, 2 = Orange/White, 3 = Blue, 4 = Green, 5 = Orange
7. Obtain (1) Switch Assembly and (2) 10-32 x 1/2 inch Phillips Head Screws from the Parts Box.
8. Connect the Switch Harness from the back of the Switch Assembly to the Main Harness.
   a. Place extra wiring back inside the Jamb Tube.
9. Insert the Switch Assembly into the Cut Out.
10. Secure the Switch Assembly to the Jamb Tube with (2) 10-32 x 1/2 inch Phillips Head Screws.

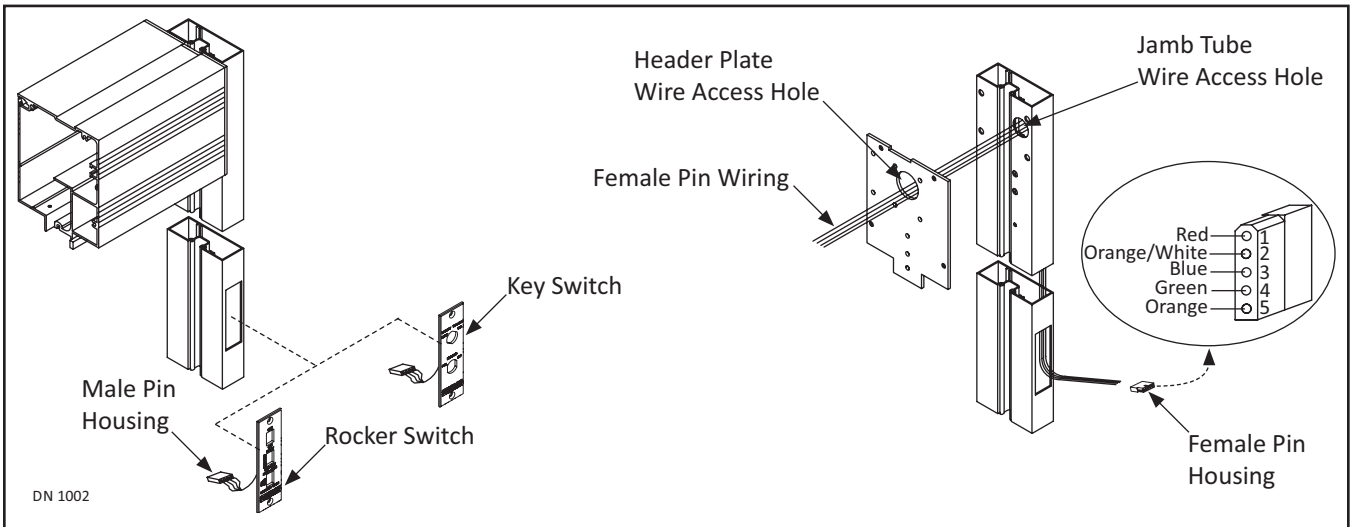

Figure 10-1 Pull Female Pin Wiring through the Jamb Tube Cut Out

CHAPTER 11: INSTALL THE GLASS STOPS

WARNING **Glazer must be fully trained and qualified. Failure to do so may result in bodily injury, or property damage.**

Note: Ensure the installation area is free of debris and/or sharp objects. Failure to do so may damage the glass or contaminate the glazing process.

Section 11a: Door Panel

Note: The Snap Base and Vinyl Bumpers are preinstalled at the NABCO Factory.

1. Ensure the Snap Base is free of debris and/or sharp objects.
2. Obtain the Glass Stop provided by NABCO.
3. Install the Setting Blocks (not provided by NABCO) and Glass Panel. Please see Figure 11-1.
4. Snap the Glass Stop into the Snap Base.

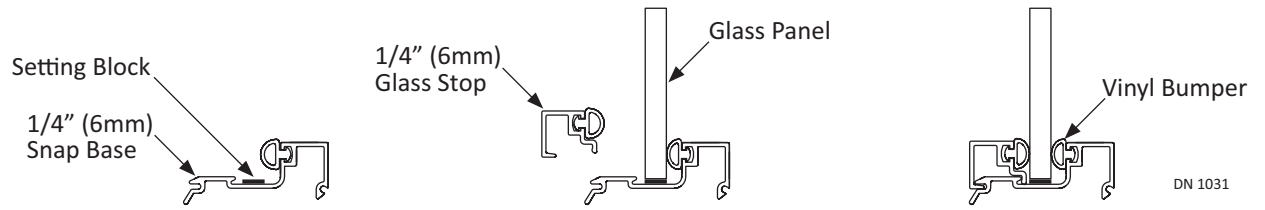

Figure 11-1 Door Panel Glass Stop

Section 11b: Transom

Note: Vinyl Bumpers are preinstalled at the NABCO Factory.

1. Obtain all Snap Bases and Glass Stops provided by NABCO.

1. Go to the top of Header.
2. Snap each Snap Base inside the Channel on either side of Vertical Transoms.
3. Install the Setting Blocks (not provided by NABCO) and Glass Panel. Please refer to Figure 11-1.
4. Snap each Glass Stop into each Snap Base. Please see Figure 11-2.

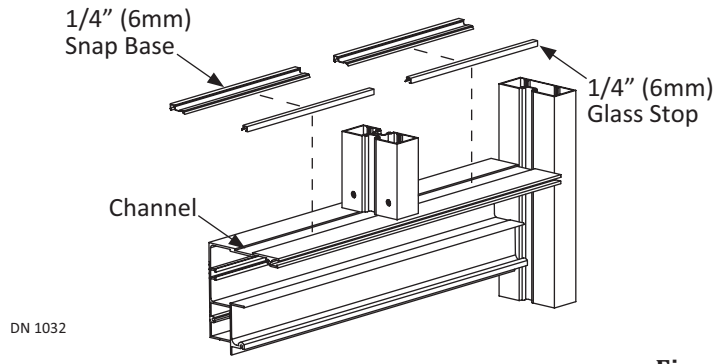

Figure 11-2 Transom Glass Stops

Section 11c: Dust Protector Hoods (Clean Room)

Note: All Aluminum Hoods and Vinyl Shields are installed for Clean Room Slide Door Units only and are not manufactured by NABCO. Please call Customer Service for replacement parts at 1-888-679-3319.

11.c.a: Door Panel and Transom

Note: Aluminum Hoods are installed at the bottom of each Door panel and Transom.

1. Install Glass Stops according to Section 11a and Section 11b.
2. Obtain all Aluminum Hoods and Vinyl Shields provided by NABCO.
   a. Do Not remove protective paper from double sided Cladding Tape at this time.
3. Place each Aluminum Hood over each Glass Stop so the bottom edge of the Aluminum Hood is resting on the surface. Please see Figure 11-3.
4. Insert the bottom half of each Vinyl Strip inside the gap that is located behind the Aluminum Hood. The Vinyl Flap must be laying on top the Aluminum Hood.
5. Hold the assembly in place while it is pressed up against the Glass Panel. Make a temporary Mark along the full length of the Vinyl Strip.
   a. Ensure the bottom edge of the Aluminum Hood is still resting on the surface for proper alignment.
   b. Ensure the mark can be removed once installation is complete.
6. Remove the assembly.
7. Remove the protective paper to expose the Cladding Tape from the Vinyl Shield.
8. Align the Vinyl Strip to the temporary Mark and adhere to the Glass Panel.
9. Remove the protective paper to expose the Cladding Tape from the Aluminum Hood.
10. Align the Aluminum Hood with the Vinyl Shield.
11. Adhere the Aluminum Hood to the Glass Stop and tuck it under the Vinyl Flap.

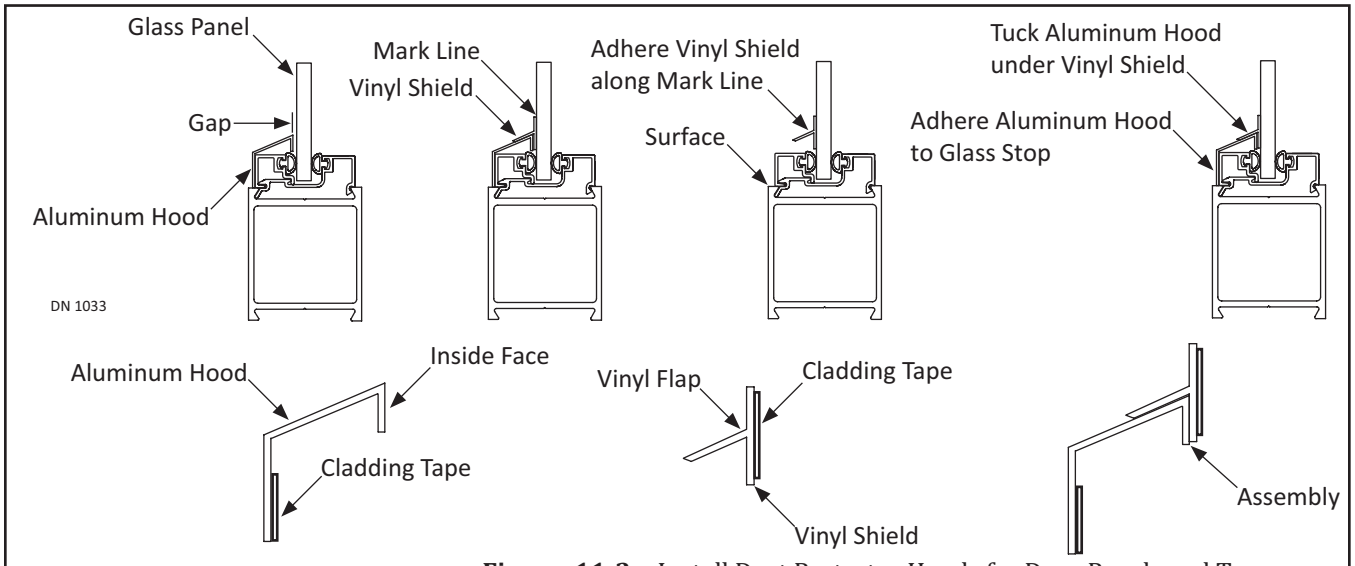

Figure 11-3 Install Dust Protector Hoods for Door Panels and Transoms

11.c.b: Header

1. Obtain (1) Stainless Steel Hood provided by NABCO.
2. Go to the side of Header that has the Removable Cover.
3. Position the Stainless Steel Hood on top of the Header so the (turned under) bottom lip is resting on the Header surface and the inside face is pressed up against the building. Please see Figure 11-4.
   a. Ensure proper length and fit is correct.
4. Remove all protective paper to expose the Cladding tape.
5. Adhere the Stainless Steel Hood to the Header.

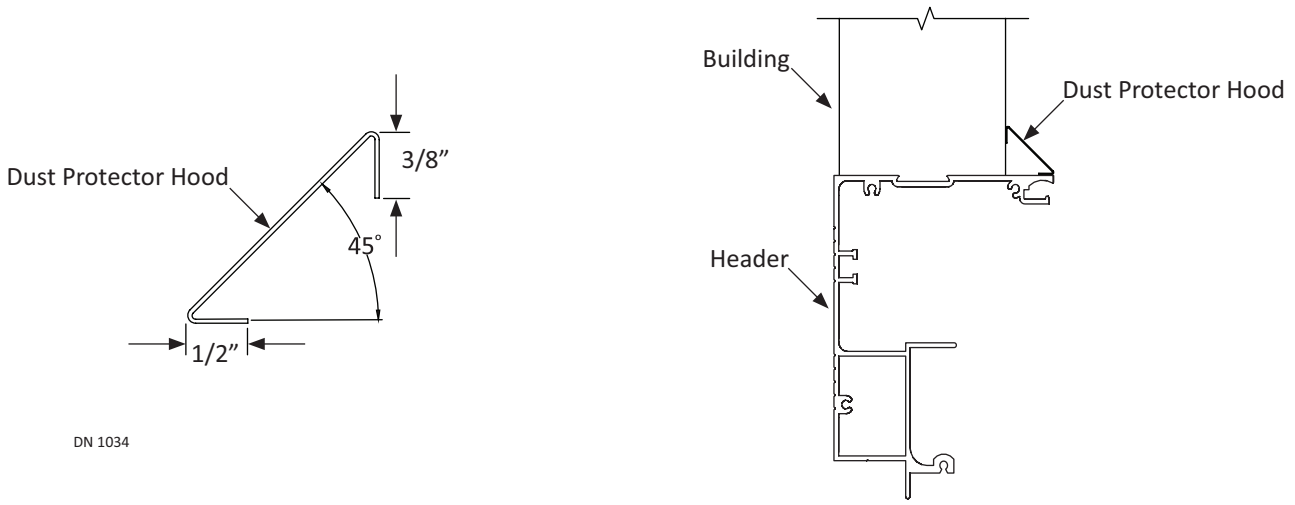

Figure 11-4 Install Dust Protector Hoods for Header