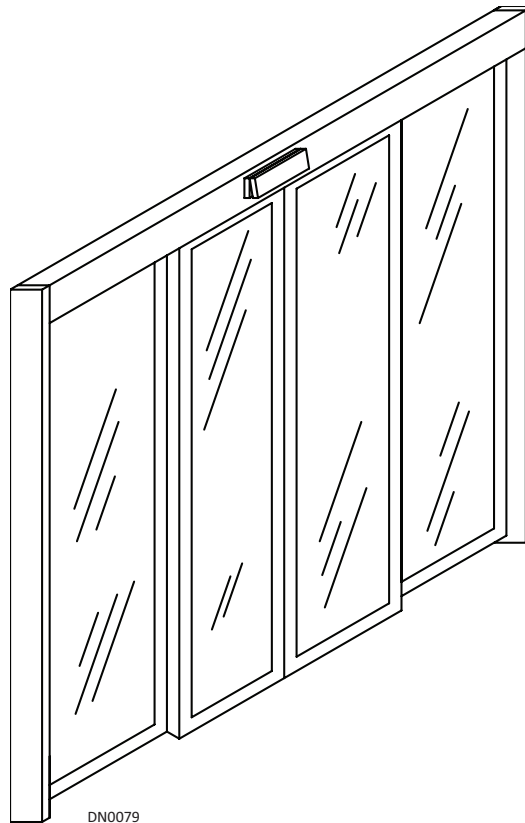




S82 W18717 Gemini Drive  
Muskego, Wisconsin 53150  
Phone: (877) 622-2694  
Fax: (888) 679-3319  
www.nabcoentrances.com  
Technical Support: (866) 622-8325

**Model GT 1175**  
**Standard Slide Doors**  
**\*\*with U30 Control\*\***  
**Installation Manual**



DN0079

**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. 10/27/15

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## 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.

**Attention:** A situation where material could be damaged or the function impaired.

**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 troubleshooting 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 distributor 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.

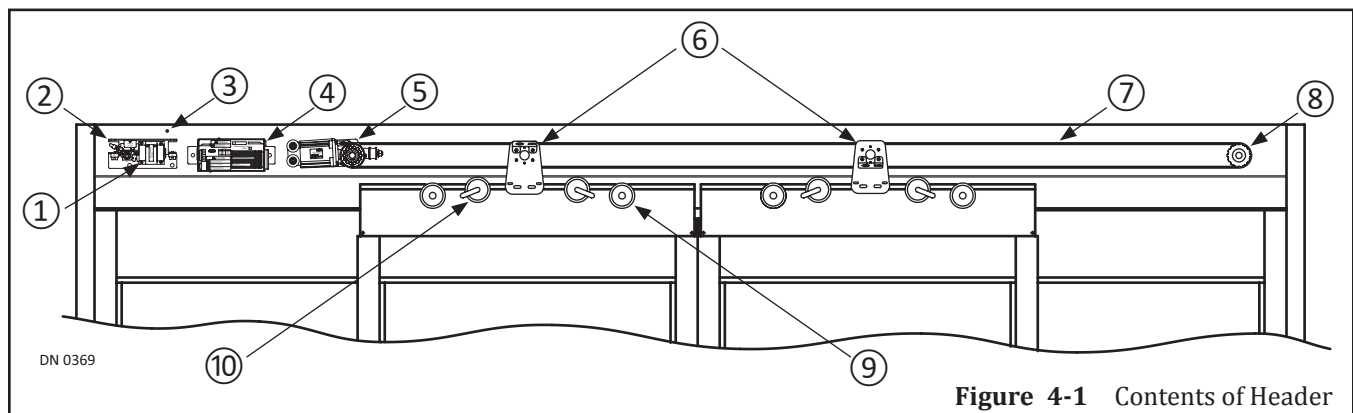
### **Section 1b: Objective**

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 ( $\pm 10\%$ ) 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**

- ▶ "GT 1175 Standard Slide Doors Quick Setup Parts Guide" (P/N C-00105)
- ▶ "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)
- ▶ "Automatic Sliding Door Owners Manual" (P/N 14-8907) for Decal Installation
- ▶ "NABCO Price Book" for Sensors, Switches, and Accessories

**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

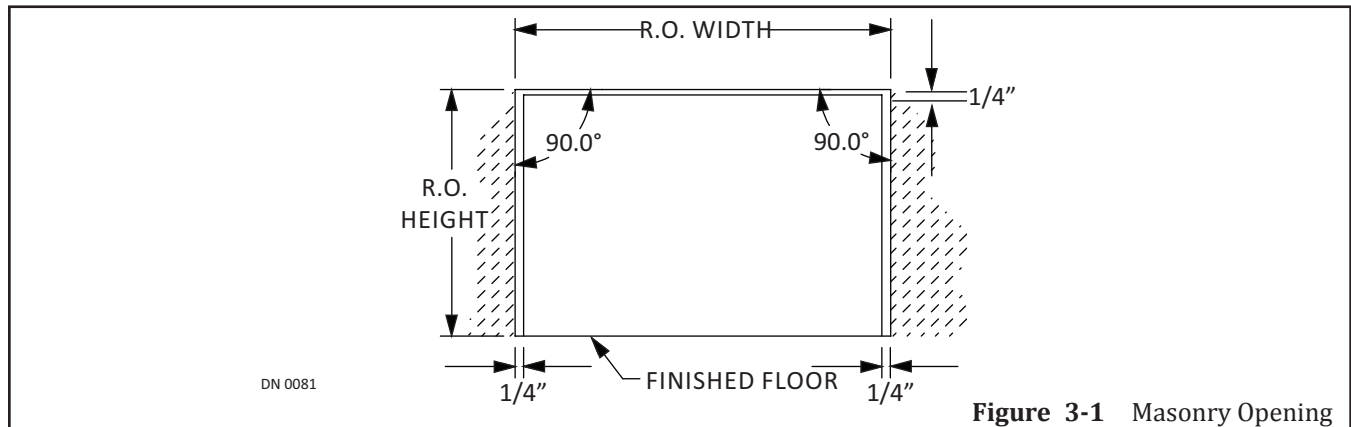
**Section 2i: Troubleshooting**

- ▶ 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

## CHAPTER 3: ASSEMBLE FRAME

### Section 3a: Prepare to Assemble Door Frame

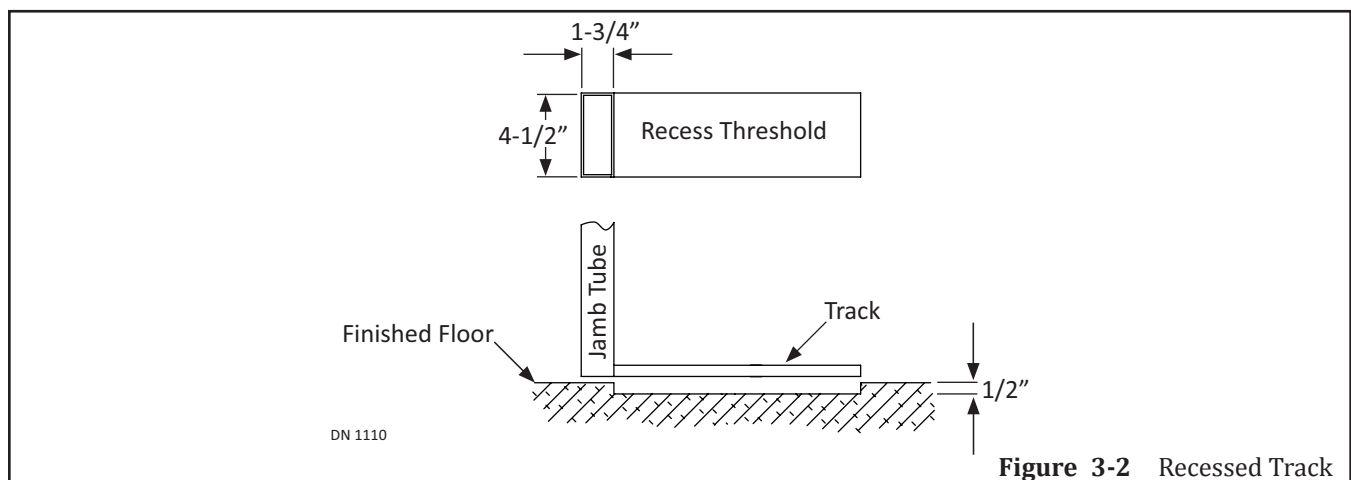
1. Ensure the Rough Opening is correct size.
  - ▶ The width of the Rough Opening should equal: **PACKAGE WIDTH + 1/4 INCH ON EACH SIDE**
  - ▶ The height of the Rough Opening should equal: **PACKAGE HEIGHT + 1/4 INCH**



**Figure 3-1** Masonry Opening

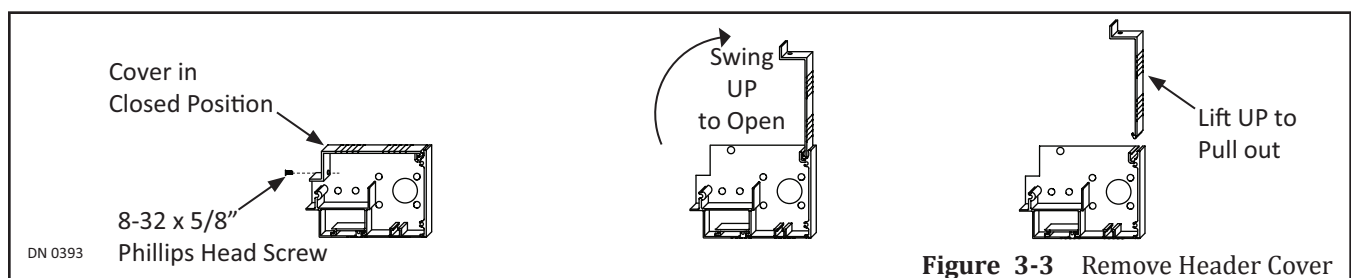
*Note: Make allowances for tile or other existing materials that may change the floor height.*

2. Ensure the floor is level across the entire opening.



**Figure 3-2** Recessed Track

3. Place the Header on a flat surface. Remove (2) 8-32x0.625L Flat head screws used to secure the removable Cover. Remove the Cover by lifting it up and then pulling it out.

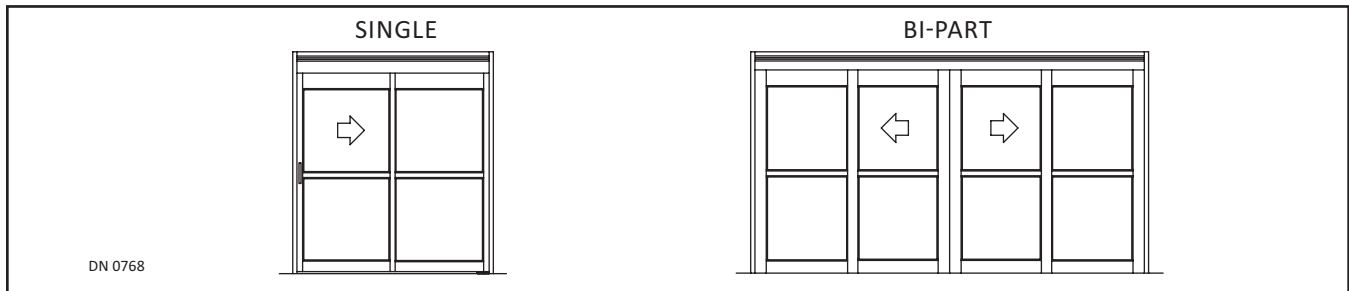


**Figure 3-3** Remove Header Cover

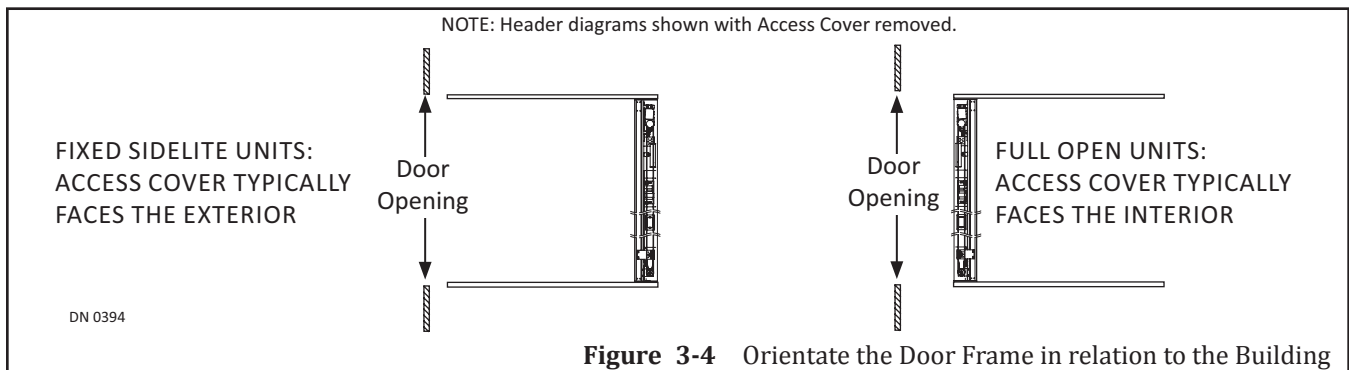
4. Unplug the Sensor (if equipped).
5. Remove Parts boxes and/or Parts bags from inside Header.

### Section 3b: Assemble Door Frame (No Transom)

**FOR DOOR FRAMES WITH A TRANSOM SKIP TO SECTION 3C**



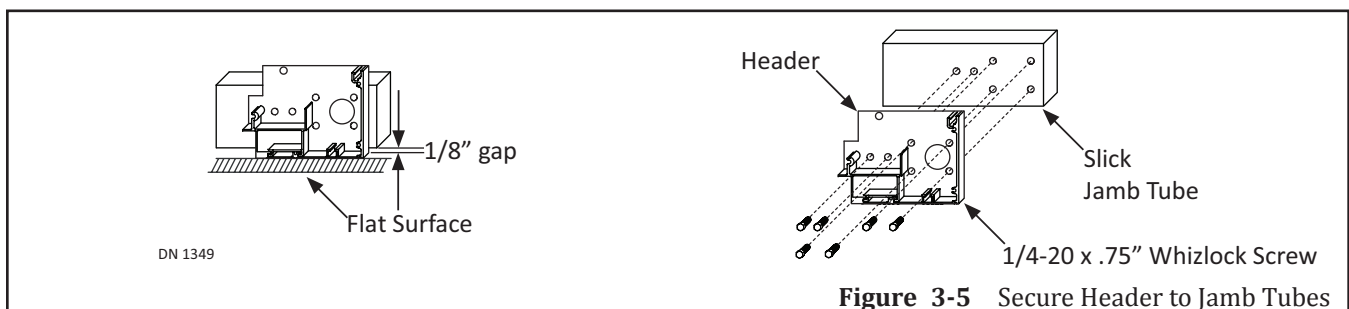
1. Position Jamb Tubes on either side of Header according to the instruction sticker located on each Jamb Tube, showing proper location and orientation. Ensure the removable cover side of Header is facing up.
2. Orientate the Frame in relation to the building:
  - ▶ Fixed Sidelite: Removable Cover side of Header must face the Exterior side of building.
  - ▶ Full Open: Removable Cover side of Header must face the Interior side of building.



**Figure 3-4** Orientate the Door Frame in relation to the Building

#### 3.b.a Secure Header to Slick Jamb Tubes

1. Secure the Header to each Jamb Tube with (6) 1/4-20 x .75 Whizlock screws.
  - a. If installed correctly there will be a 1/8 inch gap between the bottom of Header and the flat surface.



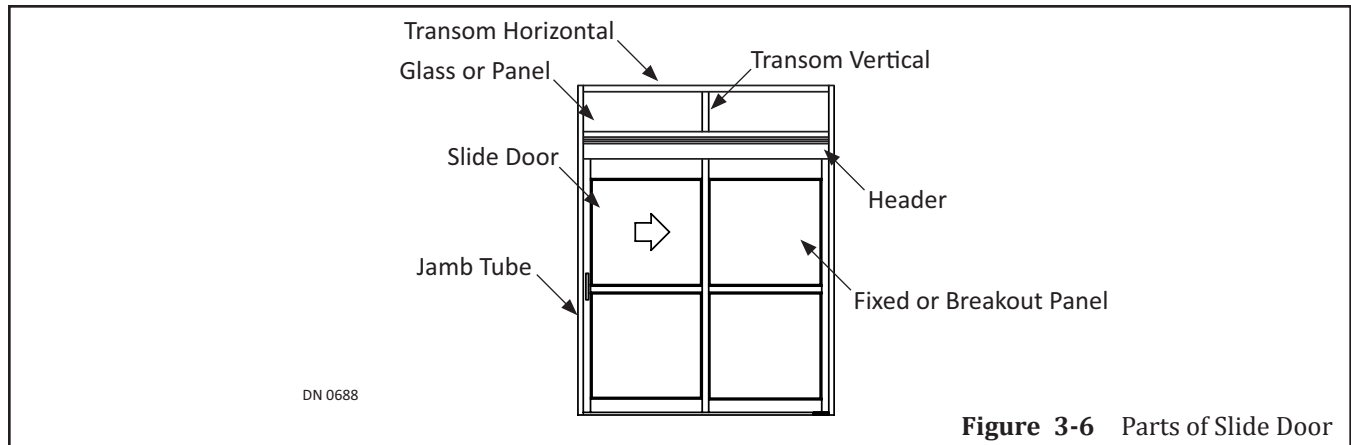
**Figure 3-5** Secure Header to Jamb Tubes

### Section 3c: Assemble Door Frame (with Transom)

#### ***FOR UNITS NOT INSTALLING A TRANSOM SKIP TO NEXT CHAPTER***

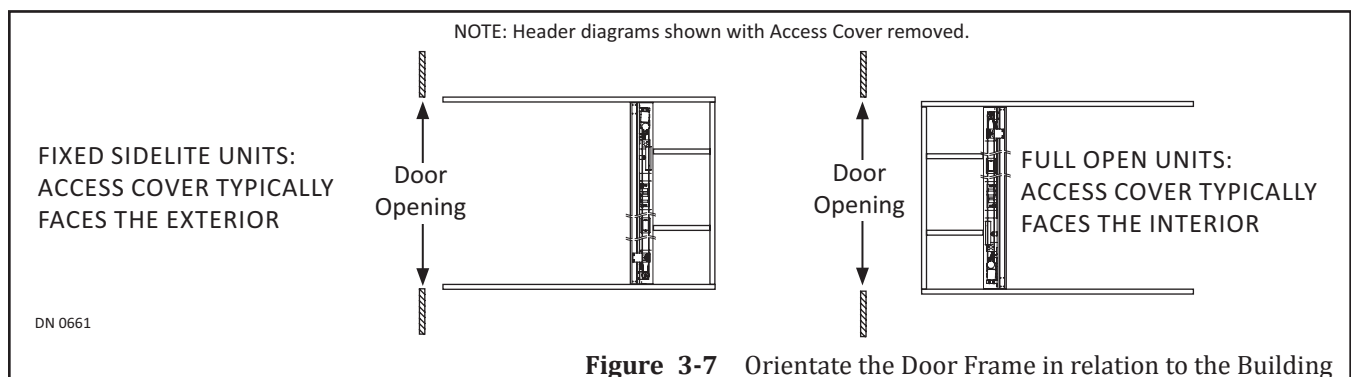
The Transom is installed on top of the Header when glass windows (or panels) are needed above the Door Unit. The Transom is used to frame glass windows or panels, with four parts:

- ▶ Transom Horizontal:
  - Secured between the top of (2) Pocketed Jamb Tubes, and the top of Rough Opening.
- ▶ Transom Vertical:
  - Secured between the Transom Horizontal and the top of Header.
  - Used to divide where windows or panels are inserted into.
- ▶ Transom Clip:
  - Installed on the Header to secure Transom Verticals.
- ▶ The Glass Stop Assembly:
  - A retaining strip mounted vertically or horizontally to hold glass windows or panels in place.



**Figure 3-6** Parts of Slide Door

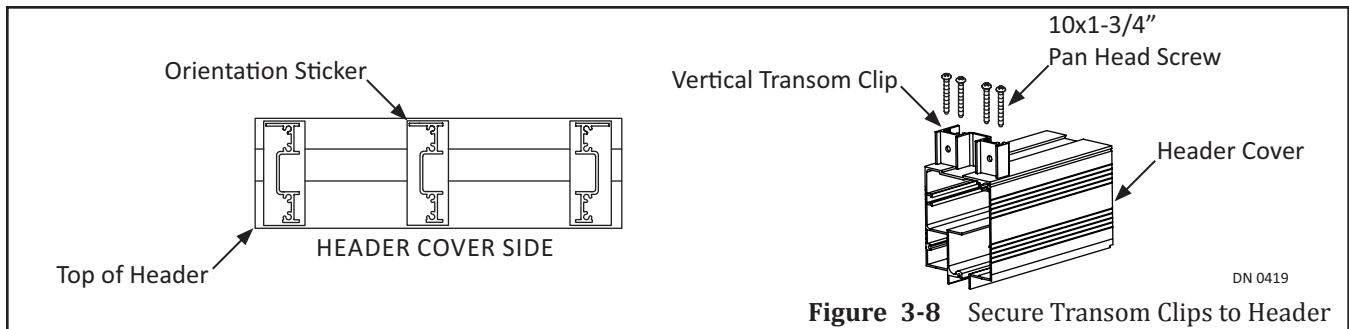
1. Position Jamb Tubes on either side of Header according to the instruction sticker located on each Jamb Tube, showing proper location and orientation.
  - a. Ensure the removable cover side of Header is facing up.
2. Orientate the Frame in relation to the building:
  - ▶ Fixed Sidelite: Removable Cover side of Header must face the Exterior side of building.
  - ▶ Full Open: Removable Cover side of Header must face the Interior side of building.



**Figure 3-7** Orientate the Door Frame in relation to the Building

### 3.c.a Secure Transom Clips to Header

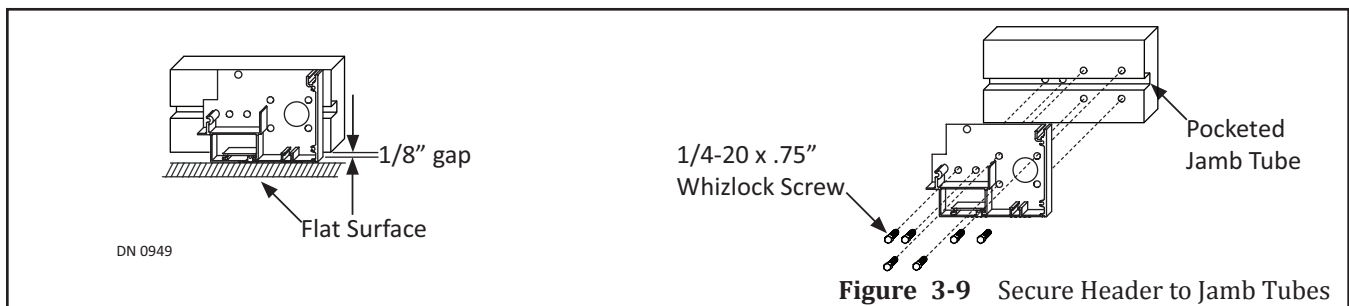
1. Locate pre-drilled holes on Header.
2. Secure Transom clips to Header with 10 x 1-3/4 inch Phillips Pan Head screws.
  - a. Please refer to the instruction sticker located on the Header for proper location and orientation.
  - b. Be sure to orientate all Transom Clips in relation to the Header cover.



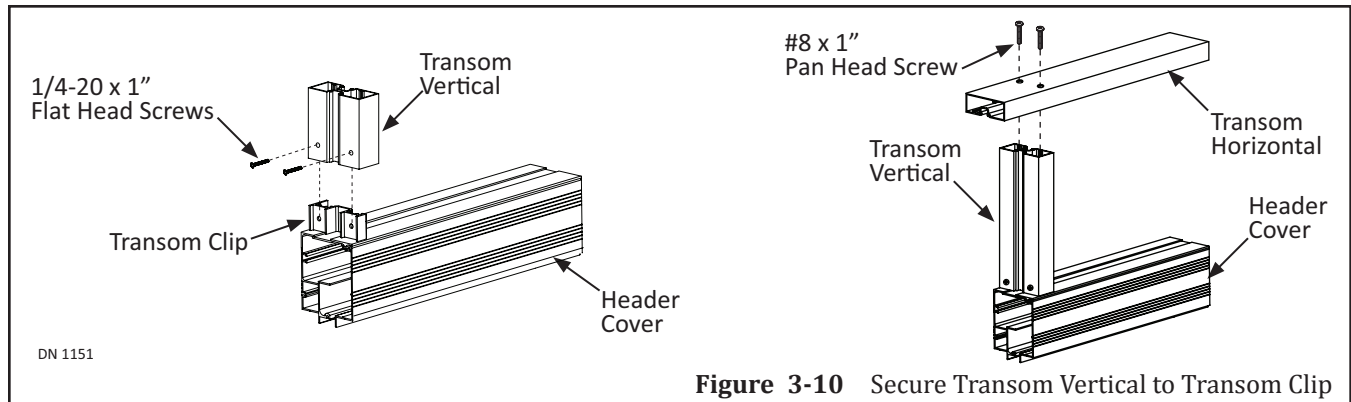
### 3.c.b Secure Header and Transom to Pocketed Jamb Tubes

*Note: 1175 Slide Door Units installed with a Transom are shipped with Pocket Jamb Tubes only.*

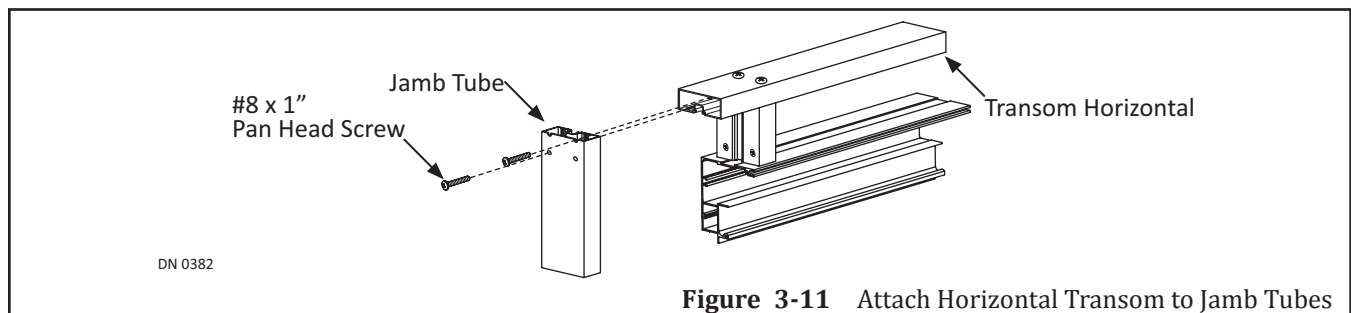
1. Place the Header between the Pocket Jamb Tubes so the removable cover side is facing up.
  - a. Ensure the Frame is still orientated in relation to the building.
2. Secure the Header to each Jamb Tube with (6) 1/4-20 x .75 Whizlock screws. If installed correctly there will be a 1/8 inch gap between the bottom of Header and the flat surface.



3. Slide and secure each Transom Vertical onto (1) Transom clip with 1/4-20 x 1" Flat Head screws.
4. Insert #8 x 1 inch Pan Head screws into each predrilled hole located on top of the Transom Horizontal.
5. Place the Transom Horizontal onto the Transom Verticals. Tighten each #8 x 1 inch Pan Head screw.



6. Insert #8 x 1 inch Pan Head screws into each predrilled hole located on the outside face of each Pocketed Jamb Tube.
7. Align the Transom Horizontal with the Jamb Tubes. Tighten each #8 x 1 inch Pan Head screw.



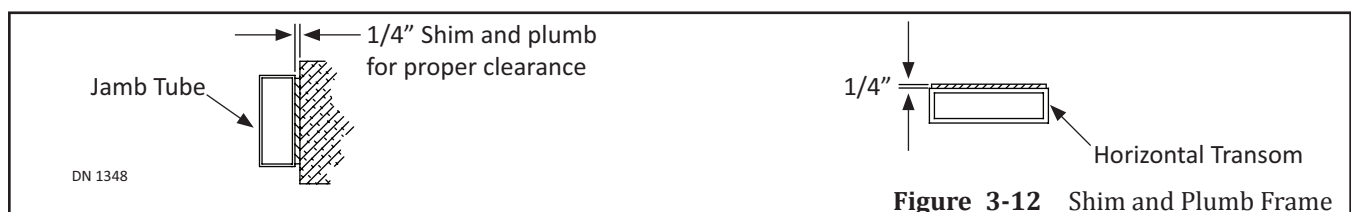
### 3.c.c Install the Tie Rods

#### **FOR TRANSOMS UNDER 11 FEET SKIP TO NEXT CHAPTER**

*Note:* Tie Rods are used for Transom Units that are 11 feet to 12 feet tall.

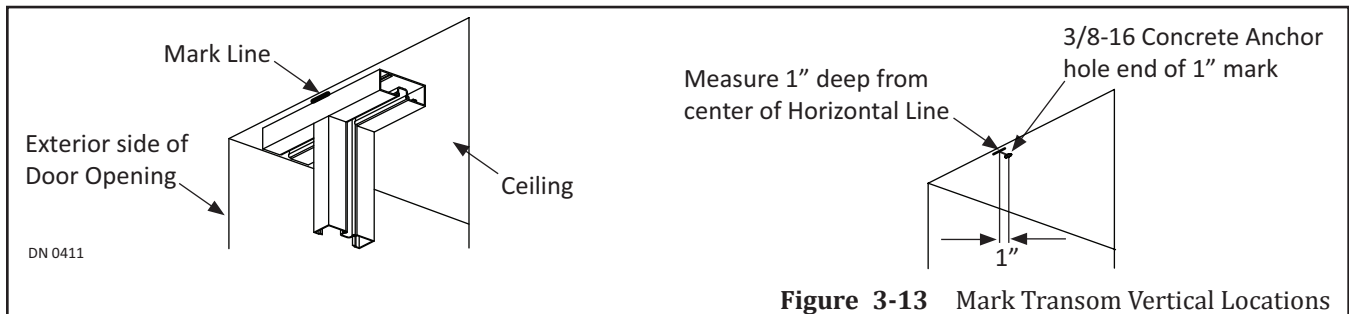
*Note:* For units taller than 12 feet, please call Technical Support at 1-866-622-8325, for installation instructions.

1. Lift to position the assembled Frame into the rough opening.
2. Shim and Plumb Jamb Tubes in both planes to ensure the rough opening allows a 1/4 inch clearance.
3. Shim and plumb the Transom Horizontal at the top to ensure the rough opening allows a 1/4 inch clearance.



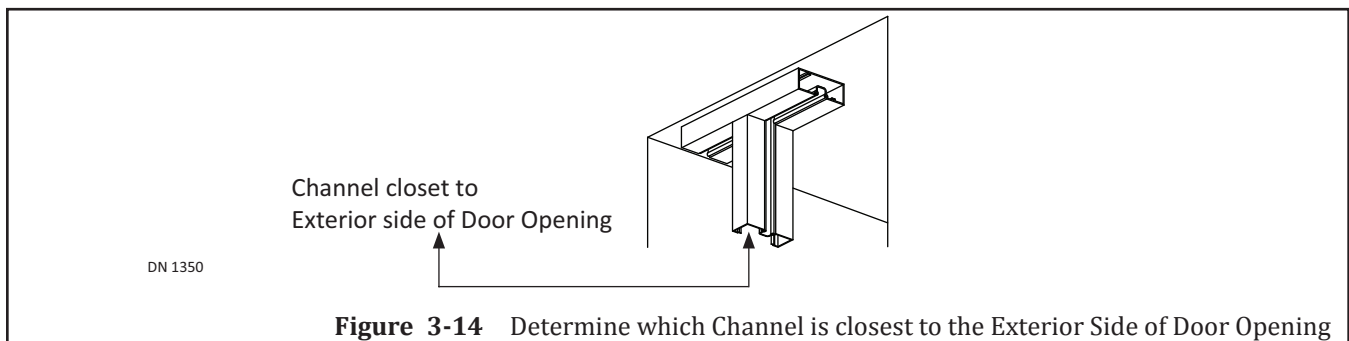
4. Go to the side of Header that is closest to the Exterior side of Door Opening,

5. Mark the exact location of each Transom Vertical by drawing a horizontal line (the full width of the Transom Vertical); along the outside edge of the Transom Horizontal; onto the ceiling of the Rough Opening.
  - a. Do not draw the line wider than the Transom Vertical.
  - b. It is recommended to use a level for this step.
6. From the center of each Horizontal line, measure 1 inch deep (towards the interior side of building). Mark a Vertical line onto the ceiling of the Rough Opening.
  - a. It is recommended to use a level for this step.



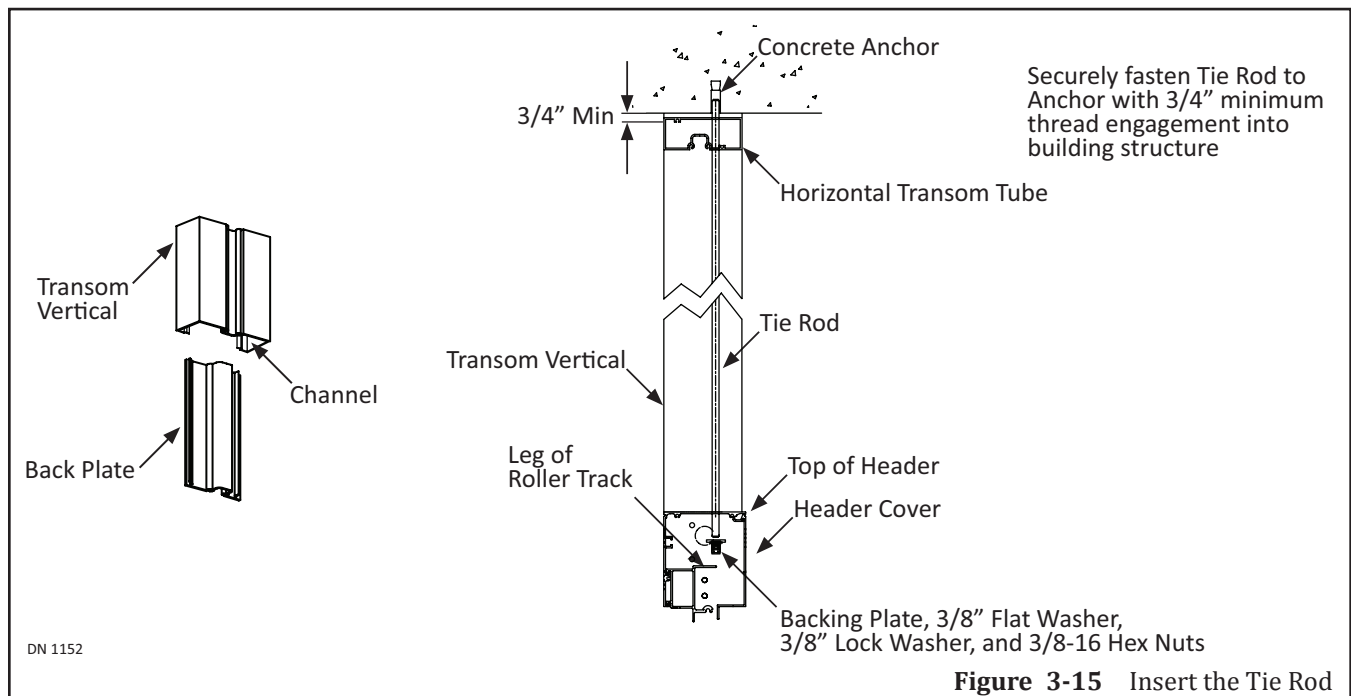
**Figure 3-13** Mark Transom Vertical Locations

7. Carefully remove the Door Frame from the Rough Opening. Set aside.
8. At the end of each Vertical Line mark, drill (1) 3/8-16 Concrete Anchor hole into the ceiling of the Rough Opening,
9. Obtain all Tie Rods. (1) Tie Rod Parts box is shipped for each Transom Vertical.
10. Snap the Back Plate out from each Transom Vertical for easy access to the Tie Rod.
11. Transom Verticals are pocketed with (2) channels. Determine which channel is closest to the Exterior side of Door Opening.

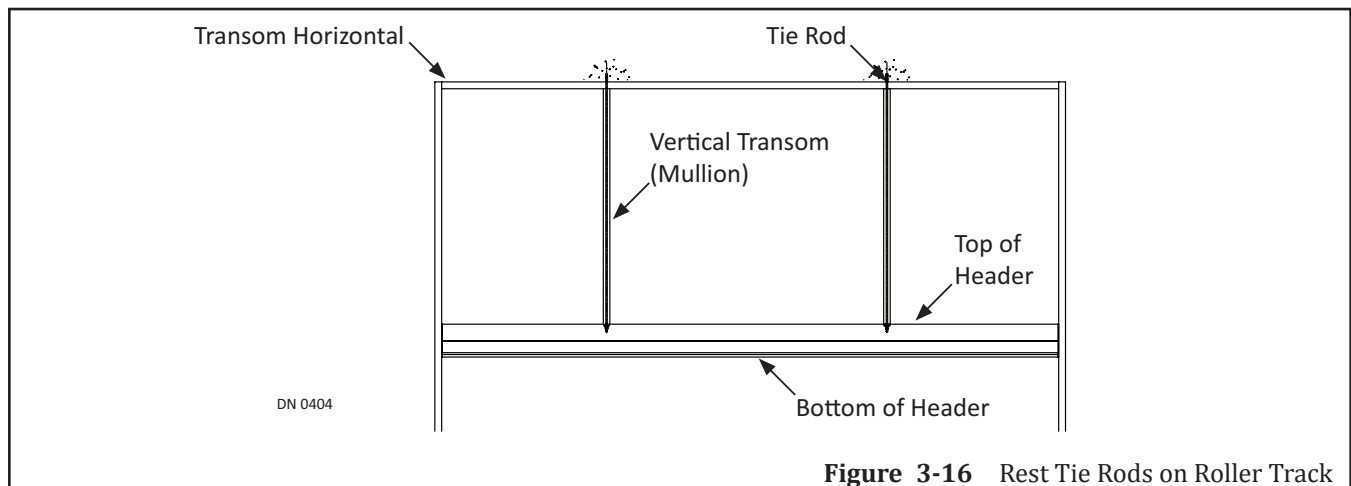


**Figure 3-14** Determine which Channel is closest to the Exterior Side of Door Opening

12. Insert (1) Tie Rod into that channel.
13. Insert each Tie Rod down into the 1 inch, pre-drilled hole located at the top of Header.
14. Once the Tie Rod is through the Header, loosely attach (1) Backing Plate, (1) 3/8 inch Washer, (1) 3/8 inch Lock Washer and (1) 3/8-16 Hex Nut (in that order) to the bottom of the Tie Rod.
  - 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.



15. Allow each Tie Rod to rest on the Roller Track "Leg" within the Header.
  - a. The Tie Rod must remain inside the Transom Vertical until the Frame is fully secured into the Rough Opening. Tie Rod Installation is completed after the Frame is installed.

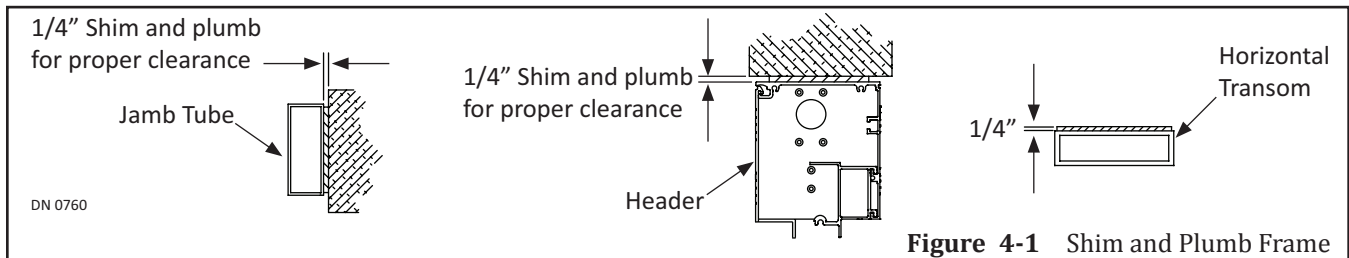




## CHAPTER 4: SECURE FRAME TO BUILDING

### Section 4a: Secure door Frame to Building

1. Lift to position the assembled Frame into the rough opening.
2. Shim and Plumb Jamb Tubes in both planes to ensure the rough opening allows a 1/4 inch clearance. Shim and plumb the Header or the Transom Horizontal at the top to ensure the rough opening allows a 1/4 inch clearance.



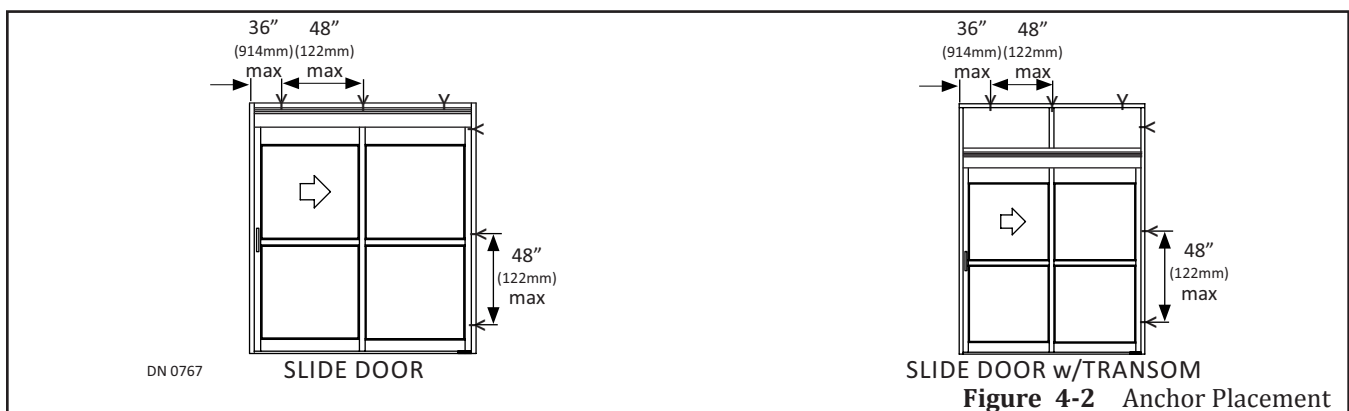
#### 4.a.a Anchor Placements

- 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 do not come in contact with edges of glass to prevent breakage.

*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: 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 diameter holes in the face of Jamb and then countersink each hole.



- **Transom Horizontal**
  - Use 1/4 inch diameter anchors with a minimum of 3 per Transom tube, maximum is 48 inches on center. Anchoring is required within 8 inches of all vertical mullions.
  - Drill 1/4 inch 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 on center. First anchor maximum is 36 inches from each end of the Header. Drill 1/4 inch diameter holes inside the top of Header.

### Section 4b: Complete the Tie Rod Installation (For Transom Units only)

1. After the Frame has been installed, slide each Tie Rod up the Channel into each 3/8-16 Anchor located in the ceiling.
  - 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 Transom Vertical.
  - 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 5: 120 VAC GENERAL WIRING

### WARNING

Shut the installation site, branch Circuit Breaker OFF. Failure to do so may result in serious personal or fatal injury. When uncertain whether power supply is disconnected, always verify using a voltmeter

### WARNING

All high voltage electrical connections must be made by licensed electricians according to National and Local electrical codes/regulations.

### CAUTION

Permanent wiring shall be employed as required by local codes.

### CAUTION

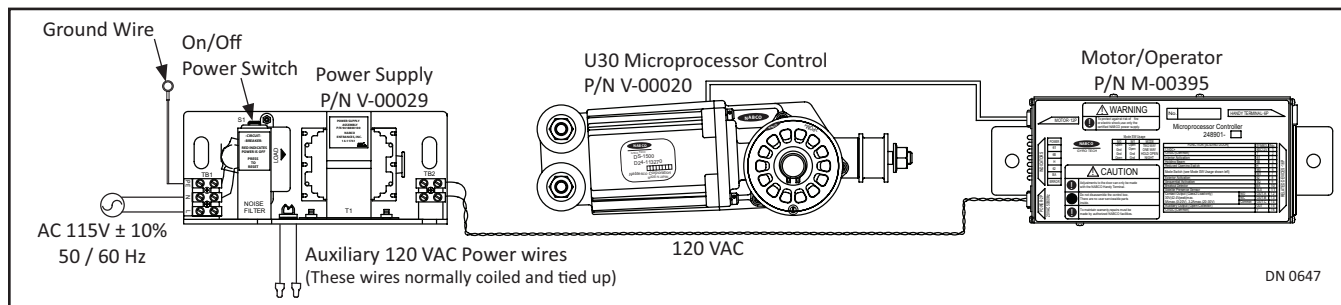
Keep all Incoming 120 VAC wiring separate from low voltage wiring within Header. 120 VAC Power wires must be routed (separate from other wiring) located near the top of inside Header.

### CAUTION

Ensure that the Grounding of the Electric Power Supply is installed/connected in a proper way (especially the PE Cable from the Building Side).

**Attention:** Insert all Incoming 120 VAC Power wires into the pre drilled Electric Service Access Hole located at the left or right side of Header End Cap.

*Note:* It is recommended for the Installer to house all Incoming 120 VAC wires within an Electrical Conduit.



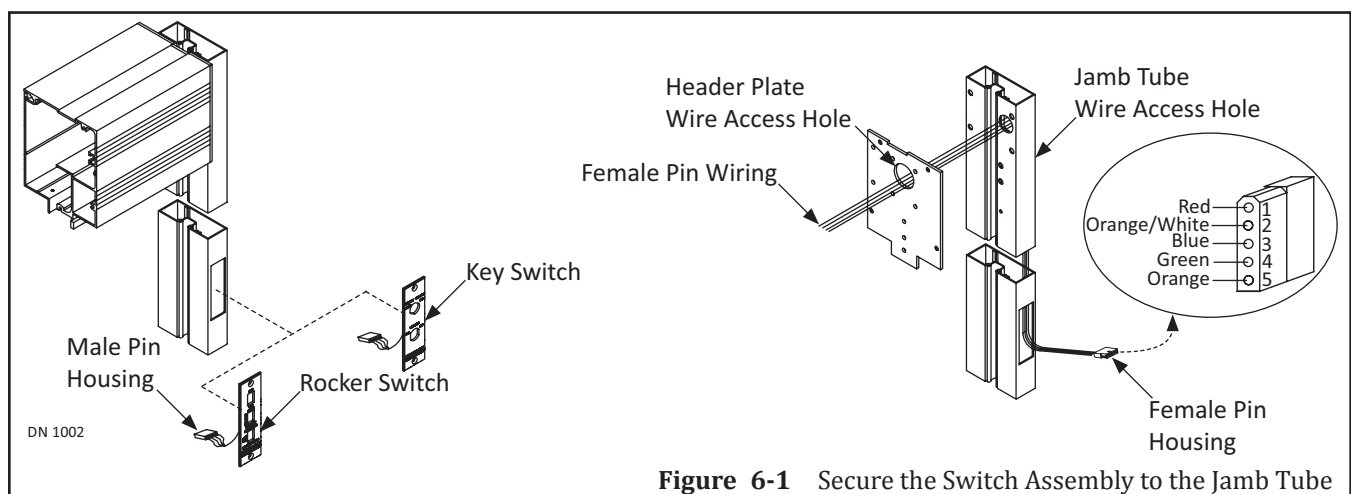
## CHAPTER 6: WIRE THE SWITCH ASSEMBLY

*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.*

*Note: The Rocker Switch and the Key Switch are both installed the same way.*

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



**Figure 6-1** Secure the Switch Assembly to the Jamb Tube

## CHAPTER 7: LAY DOWN THE THRESHOLD (Optional)

### FOR UNITS NOT INSTALLING A THRESHOLD SKIP TO CHAPTER 8

**Note:** Do Not permanently secure the Surface Threshold until the Slide Door has been installed. Doing so may cause misalignment.

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

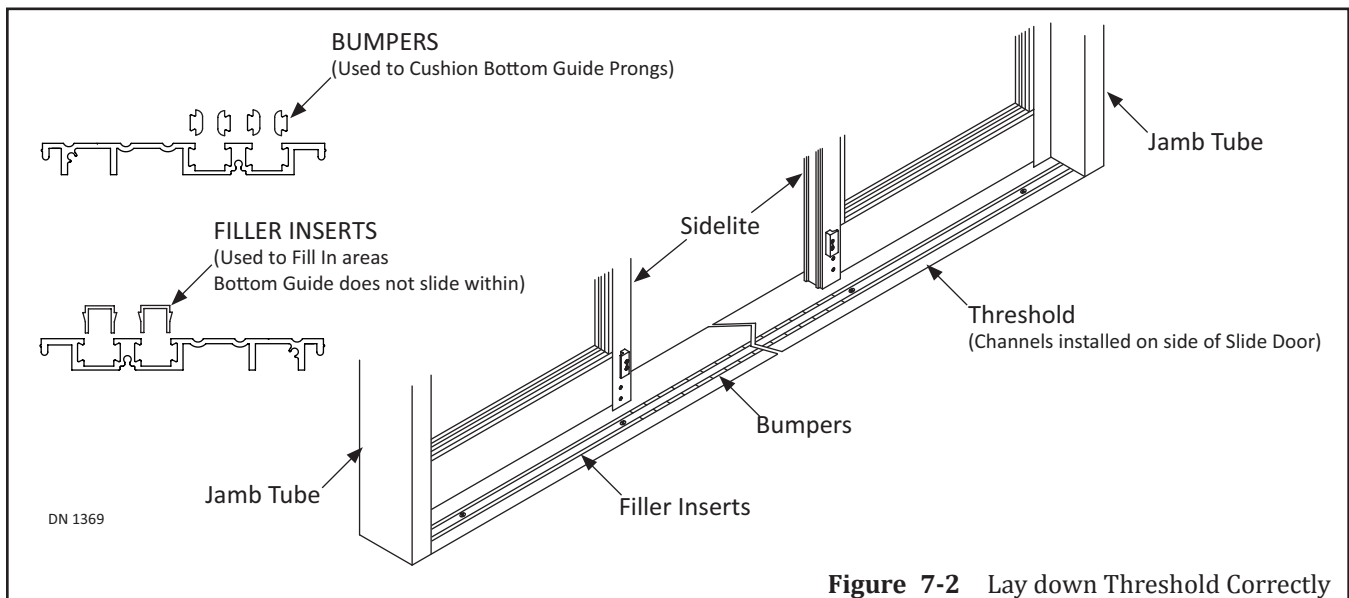
Standard Thresholds vary in width and can be installed two different ways:

- Recessed: Installed into the floor (1/2 inch deep) across the full length of the track.
- Surface: Installed on the surface of the floor with ramps attached to both sides.



**Figure 7-1** Recessed vs Surface Track

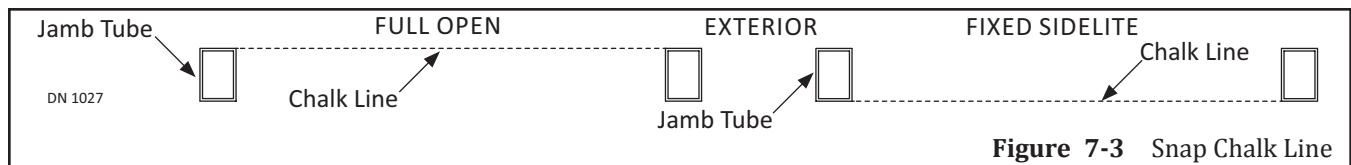
**Attention:** The Threshold must be laid down so the Channels are located on the side of Slide Door.



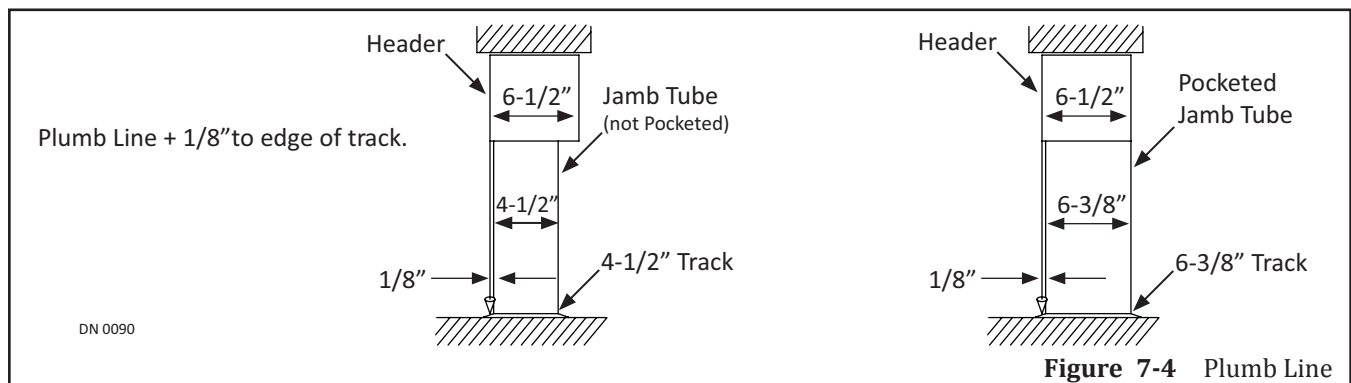
**Figure 7-2** Lay down Threshold Correctly

### 7.1 Install the Surface Threshold

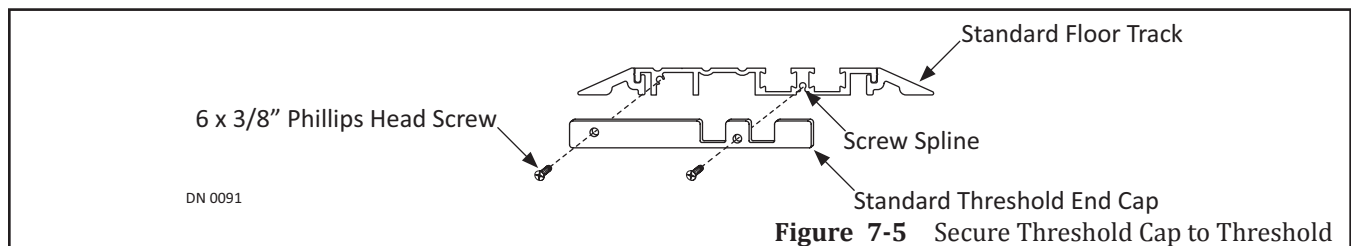
1. Obtain the Surface Threshold.
2. Snap a chalk line on the floor from Jamb to Jamb.
  - Full Open: On the Exterior side
  - Fixed Sidelite: On the Interior side



3. Position the Threshold until the full length is flush with the chalk line.
4. Hang a Plumb Bob from the Header.
5. Ensure the outside edge of the Threshold is 1/8 inch from the Plumb line.



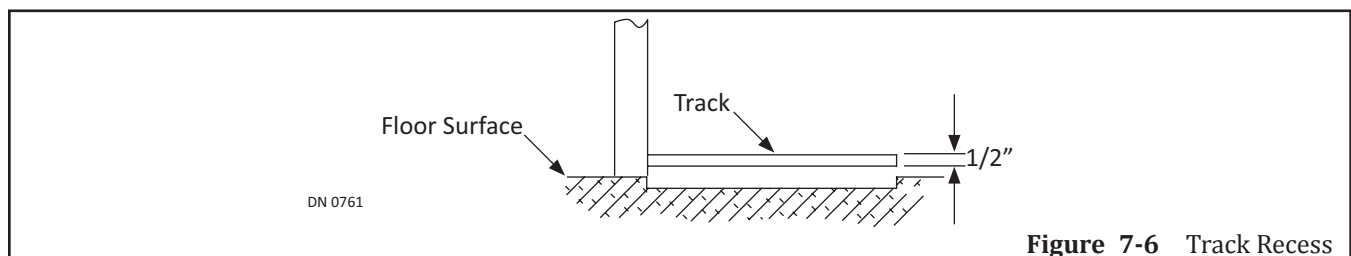
6. Locate (2) screw splines on each end (exposed side) of the Threshold.
7. Secure (1) Threshold End Cap to each screw spline with (2) 6 x 3/8 inch Phillips Head screws.
  - a. Use a 1/8 inch diameter drill bit to make the screw spline bigger if the Threshold End Cap can not be properly secured with the screws provided.



8. Permanently secure the Surface Threshold after Slide Doors are completely installed.

## 7.2 Recessed Threshold

1. Snap a chalk line on the floor from Jamb to Jamb on both sides.
2. Create a channel that is 1/2 inch deep, full width of Jamb Tubes, and full length of Threshold.
3. Place the Threshold inside the channel so the full length is flush with the chalk line.



## CHAPTER 8: 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.



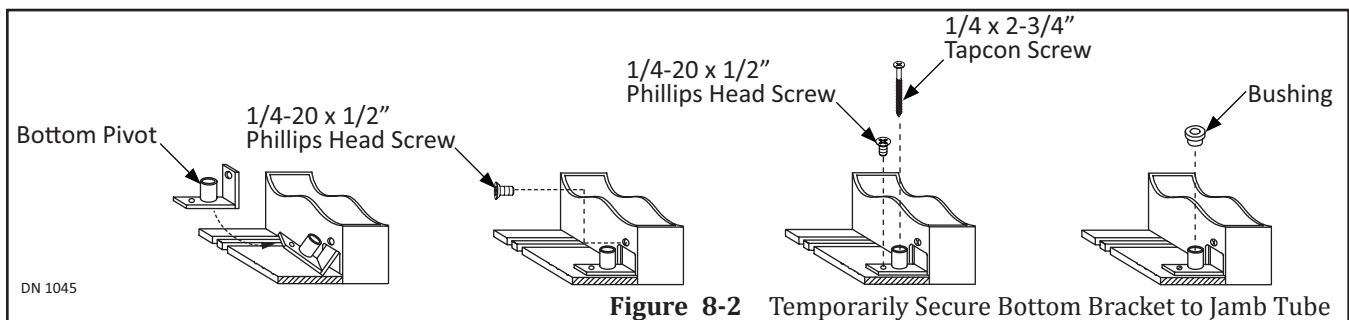
**Figure 8-1** Sidelite Configurations

### Section 8a: Full Open Sidelite

*FOR FIXED SIDELITE UNITS SKIP TO SUBSECTION 8.B*

#### 8.a.a Install the Bottom Pivot

1. Go to the bottom of the Pivot Jamb Tube. Insert the Bottom Pivot into the hole.
2. Secure the Bottom Pivot to the Pivot Jamb Tube with (1) 1/4-20 x 1/2 inch Phillips Head screw.
3. Go to the screw hole located in front of the Barrel.
4. Secure the Floor Pivot to the Threshold with (1) 1/4-20 x 1/2 inch Phillips Head Screw.
5. Insert (1) 1/4 x 2-3/4 inch Phillips Head Screw inside the Barrel. Tighten.
6. Cap the Barrel with (1) Bushing.

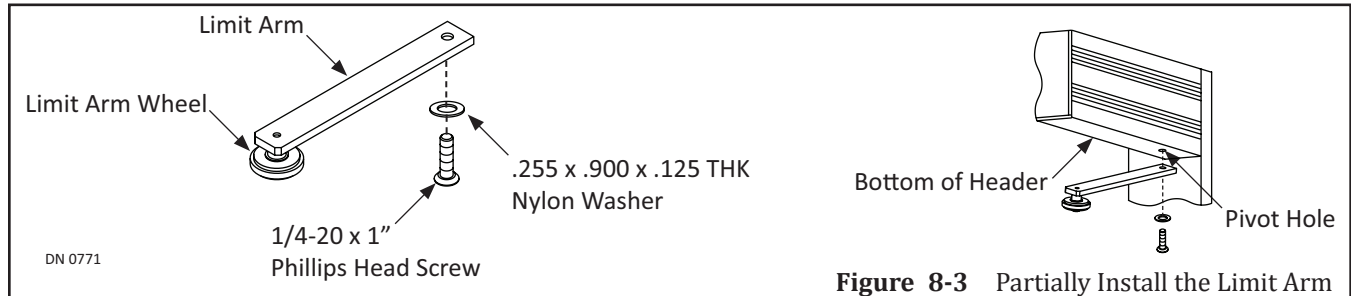


**Figure 8-2** Temporarily Secure Bottom Bracket to Jamb Tube

#### 8.a.b Partially Install the Limit Arm

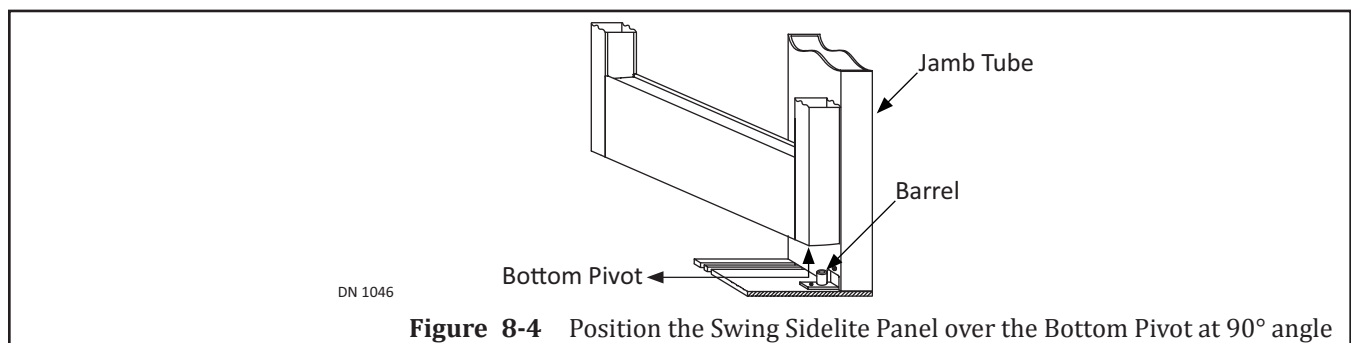
1. Slide (1) .255 ID x .900 OD x .125 THK Nylon Washer onto (1) 1/4-20 x 1 inch Phillips Head Screw.
2. Go underneath the Limit Arm. Insert the Washer and Screw up into the screw hole.
3. Go to the pre-drilled screw hole located at the bottom of Header (on the Pivot Side of Sidelite).

4. Secure the Limit Arm to the Header by tightening the Screw.
  - a. Loosely tighten (just enough to keep the Screw assembly from falling out of the hole).
  - b. Limit Arm installation is completed after the Swing Sidelite is fully installed.

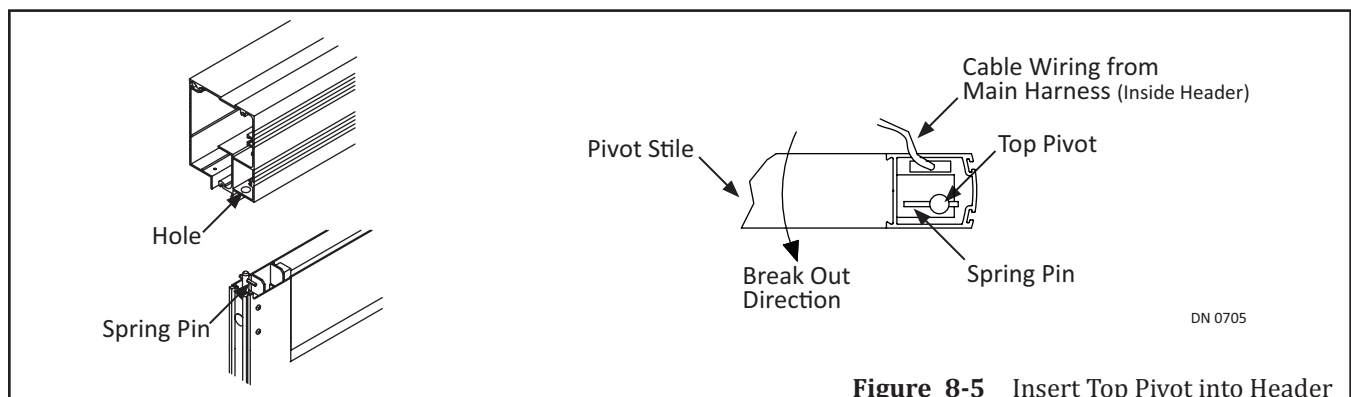


### 8.a.c Install the Full Open Sidelite onto the Upper Pivot and Bottom Pivot

1. Locate the Bottom Pivot inside the Pivot Stile (at the bottom). Insert the Bottom Pivot into the Floor Pivot Barrel.



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





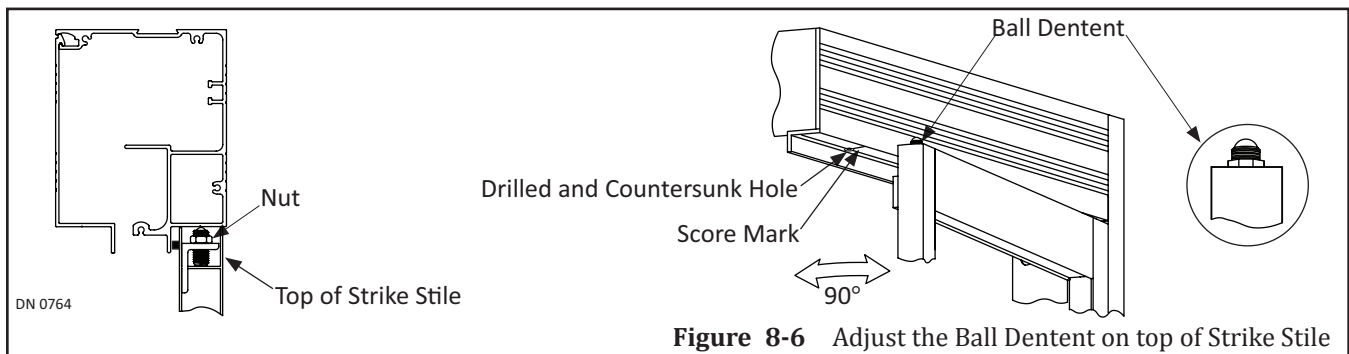
### 8.a.d Complete Installation of the Limit Arm

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

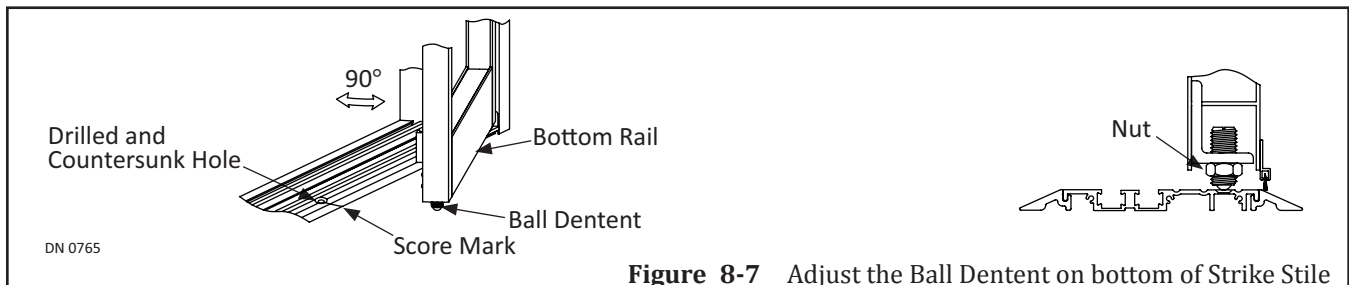
### 8.a.e Adjust the Ball Detents

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

1. Go to the top of the Strike Stile. With a 15/16" Open End wrench, loosen the Nut to raise or lower the Ball Detent so it has light contact with the Bottom of Header.
2. Open and close the Swing Door several times to score the surface on the Bottom of Header locate and mark where the Score intersects the center groove.
3. With a 1/4 inch drill bit, drill a screw hole through the Bottom of Header. Countersink the screw hole 3/8 inch x 82°.



4. Go to the bottom of the Strike Stile. With a 15/16" Open End wrench, loosen the Nut to raise or lower the Ball Detent so it has light contact with the Threshold.
5. Open and close the Swing Door several times to score the surface on the Threshold. Locate and mark where the Score intersects the center groove.
6. With a 1/4 inch diameter drill bit, drill a hole through the Threshold (Just deep enough for the Ball Detent to fit within). Countersink the screw hole to be 1/4 inch x 82°.

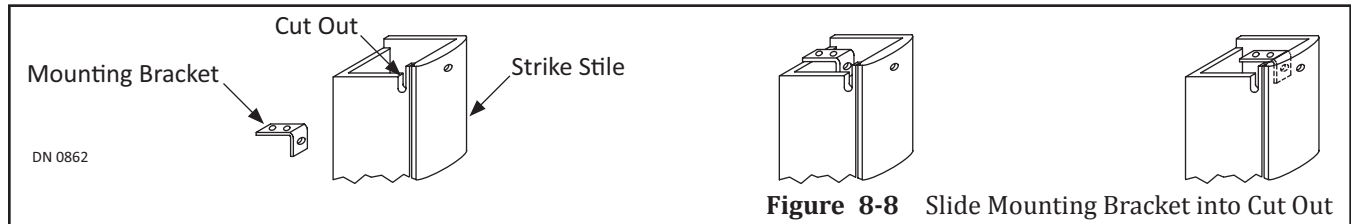


7. Close and then break open the Swing door to test fit for both Ball Detents.
  - a. To adjust the fit, increase the size of the hole and countersink.
  - b. Do Not over-drill the hole. If hole is overdrilled the Threshold will need to be replaced.
  - c. For additional travel remove the Ball Detent Bracket to lower or raise the Ball Detent.

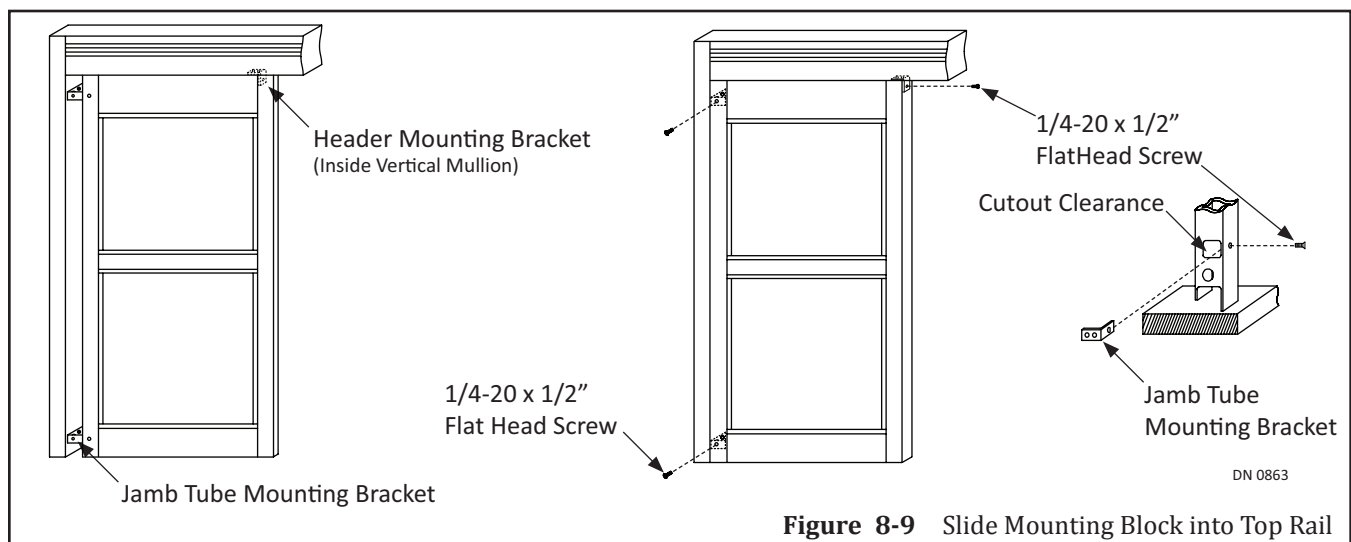
## 8.b Fixed Sidelite

### 8.b.a Secure the Fixed Sidelite to the Door Frame

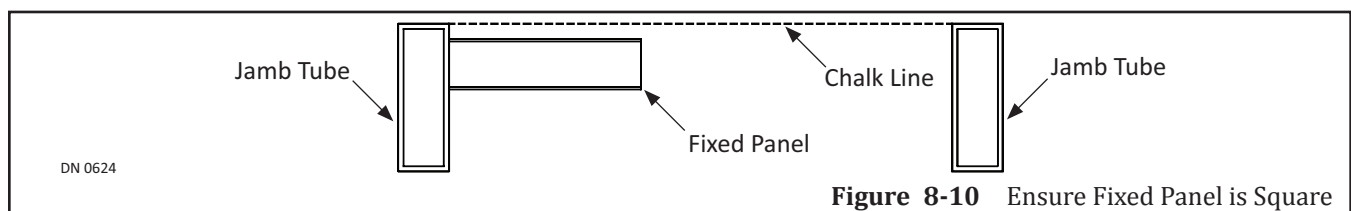
1. Locate (1) cut out at the top of Strike Stile. Align and then slide the Fixed Sidelite until (1) mounting bracket (preinstalled under the Bottom Lip of Header) can be seated inside the Cut Out.



2. Locate (2) Cut Outs on the side of the Pivot Stile. Align and then slide the Fixed Sidelite until (2) Mounting Brackets (preinstalled on the Pivot Jamb Tube) can be seated inside each Cut Out.
3. Slide the Fixed Sidelite towards the Interior of the Building until both Mounting Brackets butt up against the inside wall of the Pivot Stile.

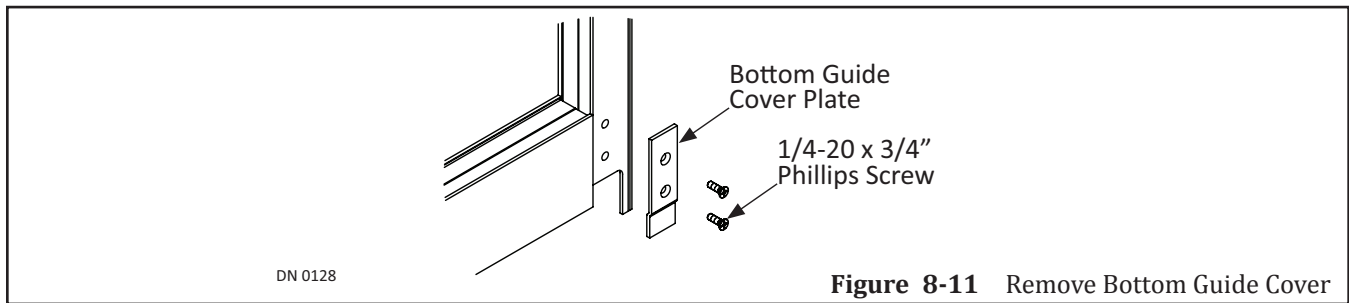


4. Snap a chalk line between Jamb Tubes in front of Sidelite Panel. If the Sidelite Panel runs parallel to chalk line, it is square.
5. Secure the Fixed Sidelite Panel to all (3) Mounting Brackets with 1/4-20 x 1/2 inch Flat Head Screws.

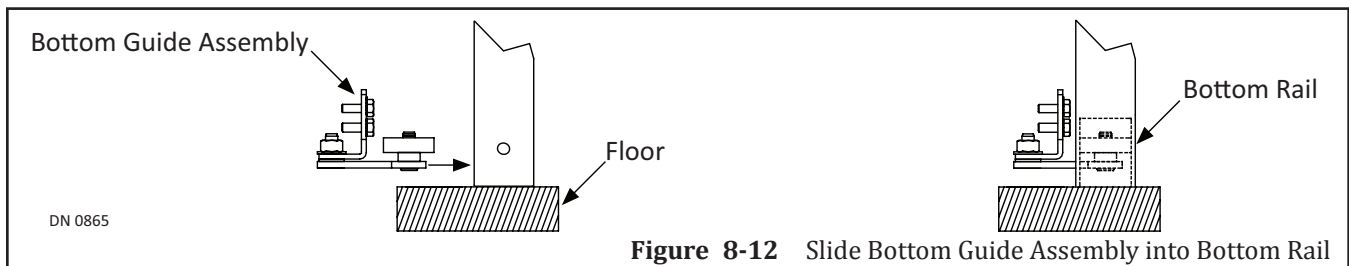


### 8.b.b Insert the Bottom Guide Double Roller Assembly under the Strike Stile

1. Go to the bottom of Strike Stile. Remove the Bottom Guide Cover Plate. Set aside.

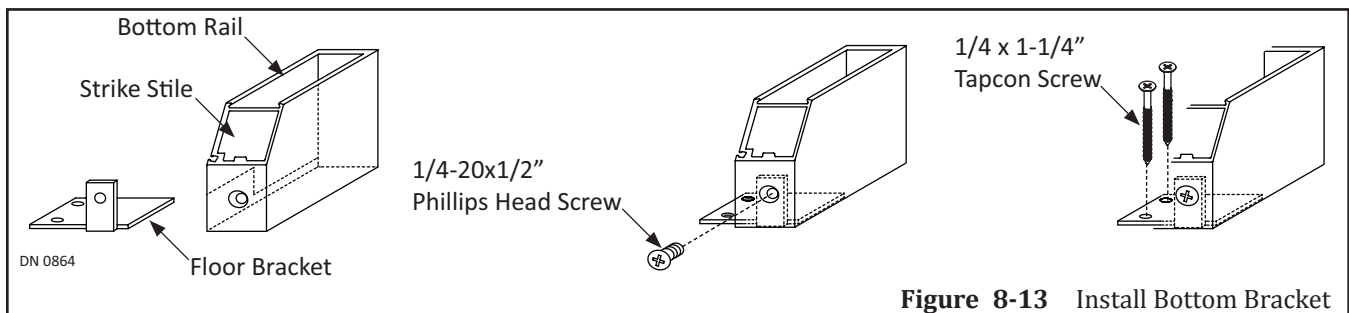


2. Install the Bottom Guide Double Roller Assembly by sliding (2) rollers into the Bottom Rail so the Bracket sticks out from underneath (in direction of where the Slide door is to be installed).
3. Use the Bracket to slide the Bottom Guide Double Roller Assembly towards the Pivot Stile.



### 8.b.c Install the Floor Bracket

1. Go to the bottom of the Strike Stile. Insert the Floor Bracket inside the Bottom Rail so the bottom plate portion sticks out from underneath (in direction of where the Slide door is to be installed).
2. Close the Slide Door. Adjust the Fixed Panel for weathering gap. Adjust the Slide Door for rocking.
3. Secure the upper plate portion of the Floor Bracket to the side of Strike Stile with (1) 1/4-20 x 1/2 inch Phillips Head screw.
4. Use the Floor Bracket as a template to drill (2) screw holes for #14 x 1-1/4 inch Flathead Tapcon screws.
5. Secure the Floor Bracket to the floor with (2) #14 x 1-1/4 inch Flathead Tapcon screws. Replace the Cover Plate.



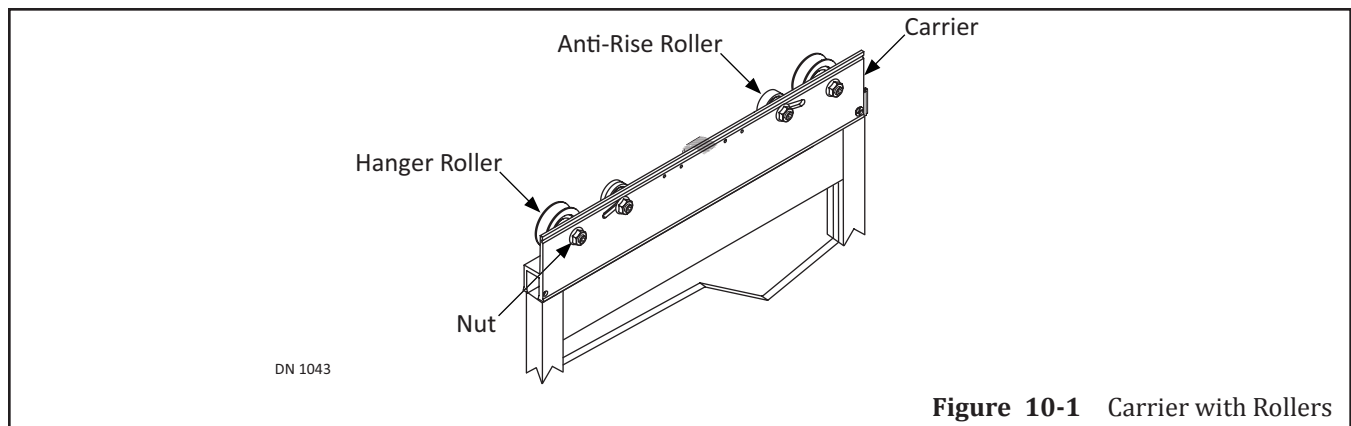
## CHAPTER 9: INSTALL THE SLIDE DOOR

### 9.a Secure the Slide Door Carrier to Belt Clips

#### CAUTION

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

1. Cover the Sidelite Panel with cardboard on the side that will face the Slide door.

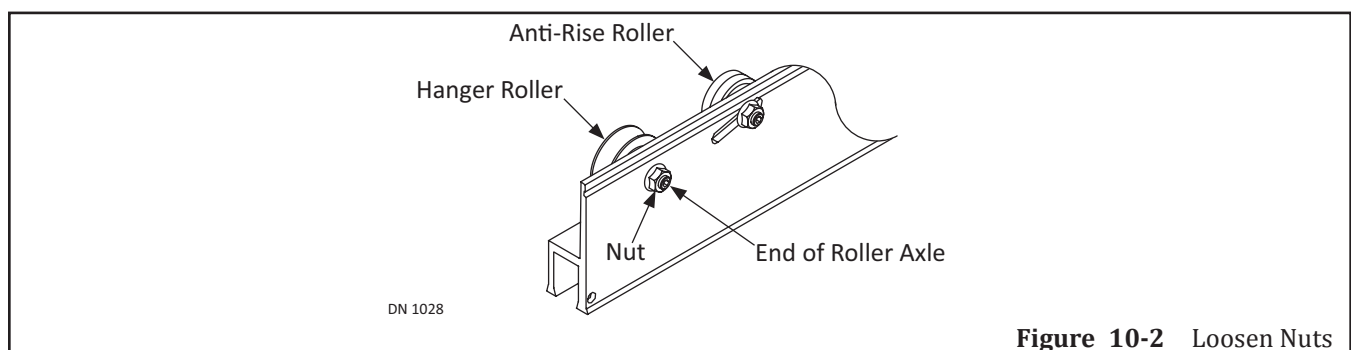


**Figure 10-1** Carrier with Rollers

#### CAUTION

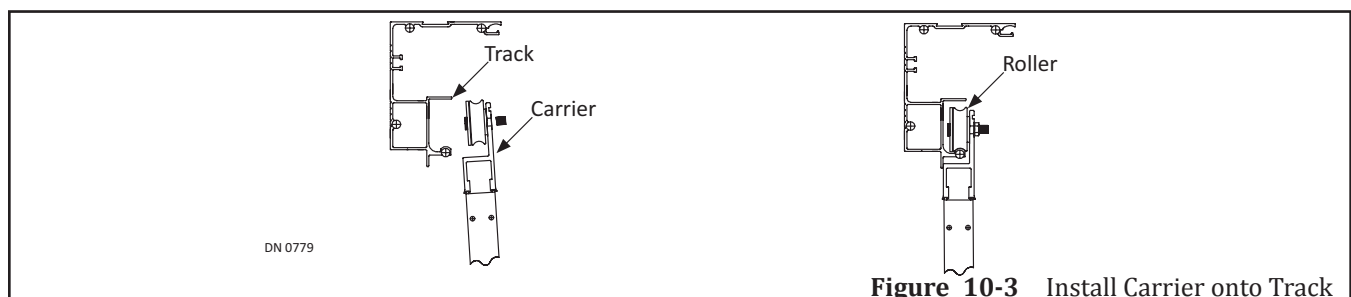
**Do not rotate the Roller Axle counter-clockwise. Doing so will unthread the Axle from the Roller Assembly.**

2. Go to the Carrier on top of Slide Door. Loosen (1) 7/16-20 Whiz Lock 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 Whiz Lock nut with a 15/16 inch Open End Wrench.



**Figure 10-2** Loosen Nuts

3. Lift and then slightly tilt the Slide door to place all (4) Rollers onto the track (located inside the Header).



**Figure 10-3** Install Carrier onto Track

4. Secure the Belt Clip to the Carrier with (2) 1/4-20 x 3/4 inch Whiz-Lock screws.
  - a. Long Belt Clips are installed on Single Slide Door Units or Lead Slide Doors for Simultaneous Pair Units.
  - b. Short Belt Clips are installed on Trail Doors for Simultaneous Pair Units; to the left side of Carrier.

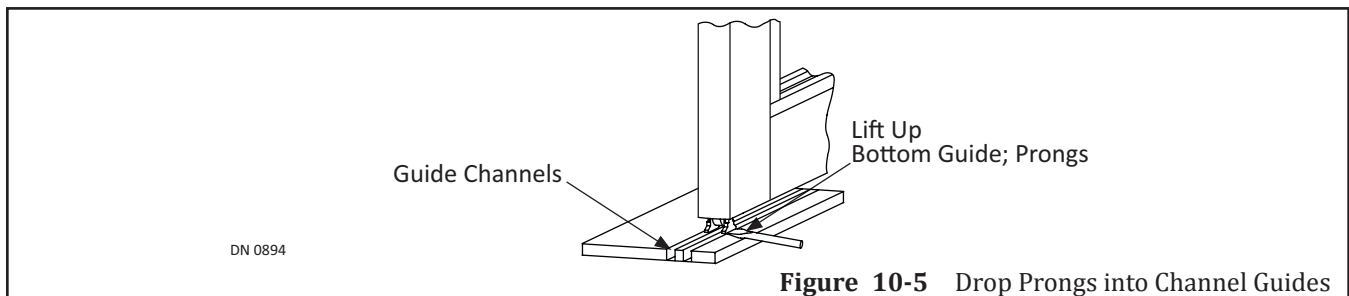


## 9.b Install Bottom Guides

### 9.b.a Insert Bottom Guide into the Threshold (Full Open Sidelite)

**FOR FIXED SIDELITE UNITS SKIP TO SUBSUBSECTION 9.B.B**

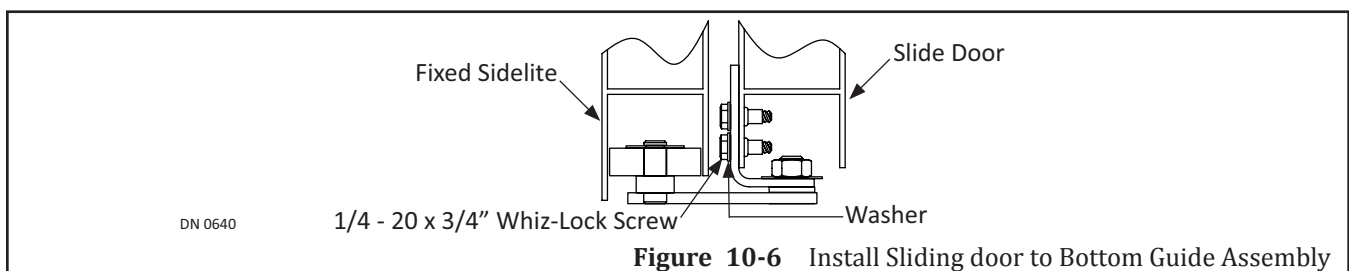
1. Locate the Bottom Guide Assembly that was preinstalled inside the Slide Door Strike Stile.
2. Lift up the Prongs until the Bottom Guide is directly above the Guide Channels. Drop the Prongs into the Guide Channels.



### 9.b.b Secure the Bottom Guide Double Roller Assembly to the Slide Door (Fixed Sidelite)

**FOR FULL OPEN UNITS SKIP TO SUBSECTION 9.C**

1. Go to the Bottom Rail of Fixed Sidelite.
2. Locate the Bottom Guide Double Roller Assembly.
  - a. The Bracket will be sticking out from underneath.

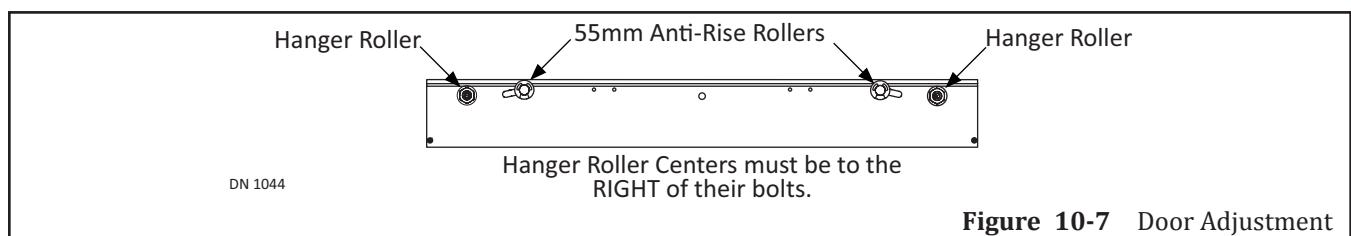


3. Slide the Slide Door's Pivot Stile onto the Bracket.
4. Support the weight of the Fixed Sidelite.
5. Breakout the Slide door to Full Open position.
6. Secure the Bracket to the Pivot Stile with (2) 1/4 - 20 x 3/4 inch Whiz-Lock screws.

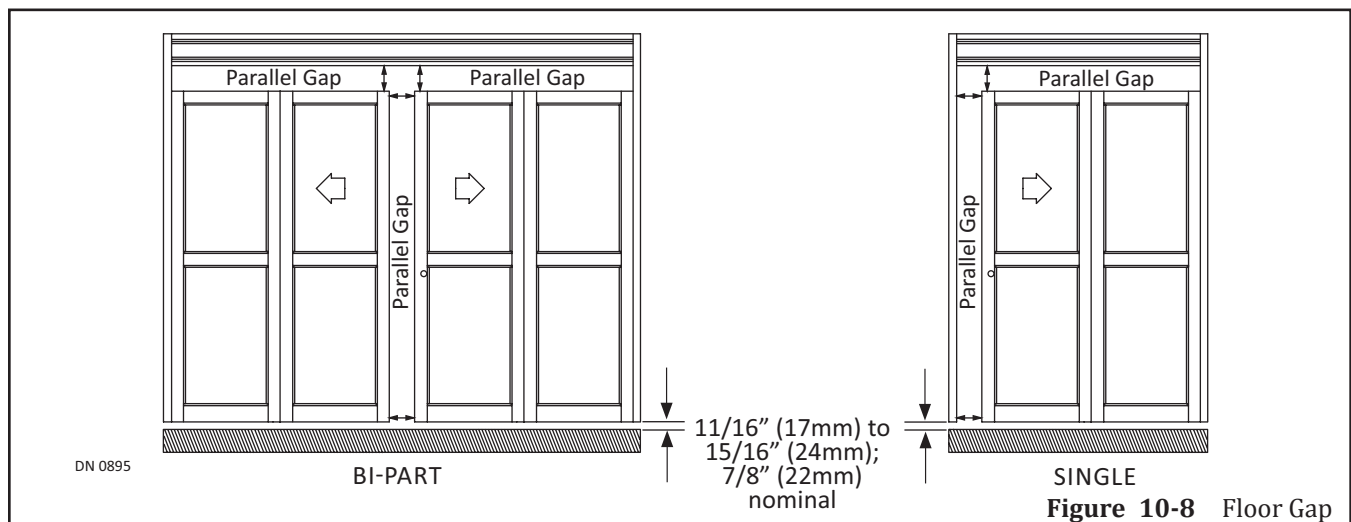
## 9.c Adjust the Rollers

### 9.c.a Hanger Rollers

1. Raise or lower the Slide door by turning the Axle clockwise with a 15/16" Open End Wrench.
  - a. The appropriate gap between the Bottom Rail and floor is between 11/16 inch to 15/16 inch; with the nominal gap being 7/8 inch.

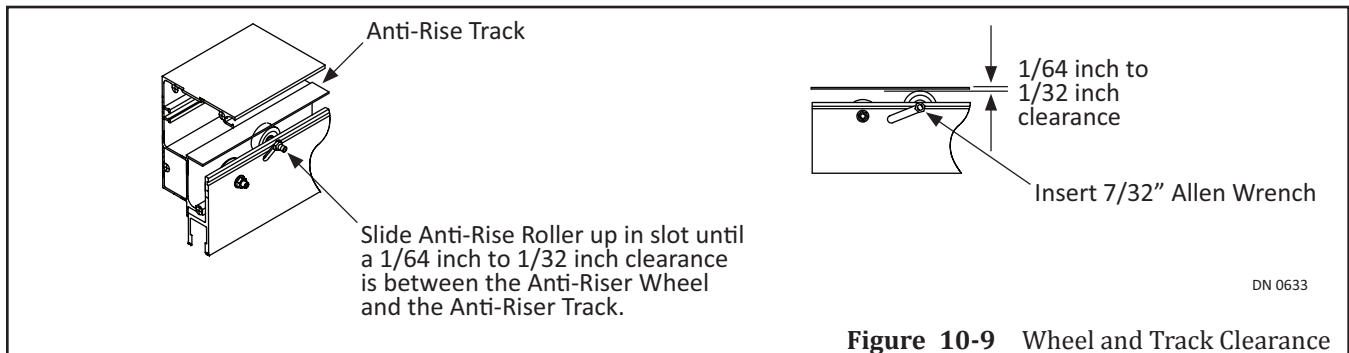


2. Ensure the Leading Edge of the Slide door and (other Slide door or Jamb Tube) are parallel.
3. Ensure the Leading Edge of the Slide door and Header are parallel.
4. Tighten the 7/16-20 Whizlock nuts. Do not overtighten.



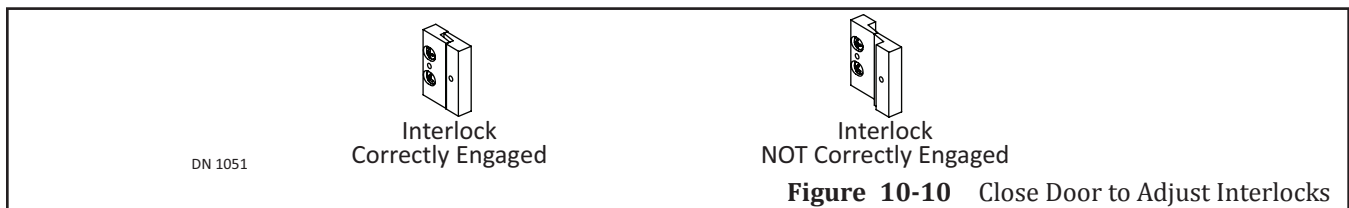
### 9.c.b Anti Rise Rollers

1. Loosen (2) Anti-Rise Rollers located towards the middle of the Carrier.
2. 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. Gap should be about the same thickness as a credit card.
3. Tighten the 7/16-20 Whizlock nuts. Do not overtighten.



## 9.d Adjust the Interlocks

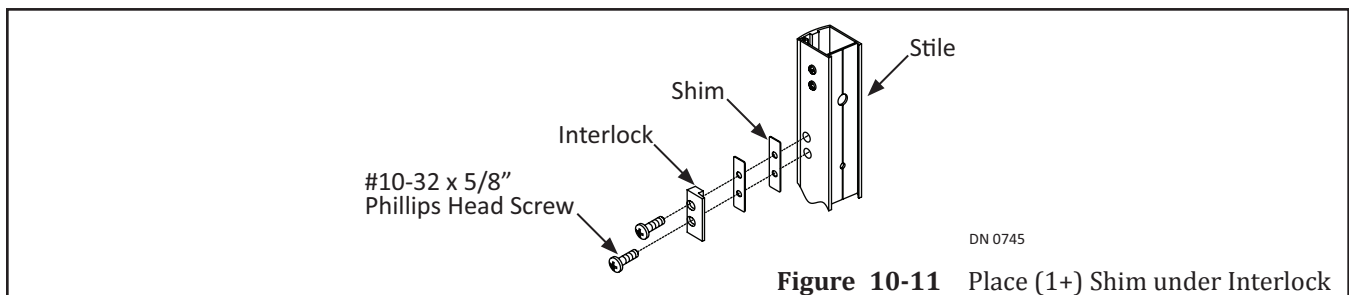
1. Manually close the Slide Door. Ensure the Interlocks are properly engaged. If not, adjust the Interlocks.



### 9.d.a Adjust the Interlock

*Note: Adjust Interlocks so there is no contact between the Rail and the Interlock. Any contact will cause the Slide Door to bind.*

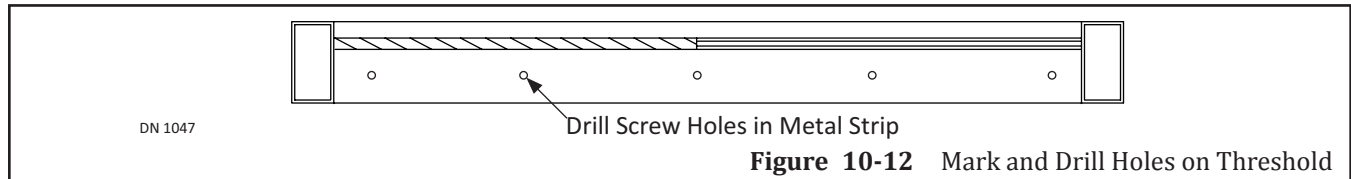
1. Obtain (1) parts bag containing (4) Shims that was taped to the Slide Door at the NABCO factory.
2. Remove the Interlock on the Sidelite, Strike Stile.
3. Place (1+) shims directly underneath the Interlock. Line up the screw holes.
4. Secure the Interlock assembly to the Sidelite Strike Stile with (2) #10-32 x 5/8 inch Phillips Head Screws.
  - a. Loosely tighten the mounting screws just enough to keep the Interlock assembly from falling out of place.



5. Go to the Interlock located on the Pivot Stile of the Slide Door. Loosen the mounting screws.
6. Manually close the Slide Door. The loosened Interlocks will automatically adjust to proper position.
7. Lock the Interlock and 1+ Shim in place by tightening the #10-32 x 5/8 inch Phillips Head Screws.

## Section 9e: Permanently install the Threshold

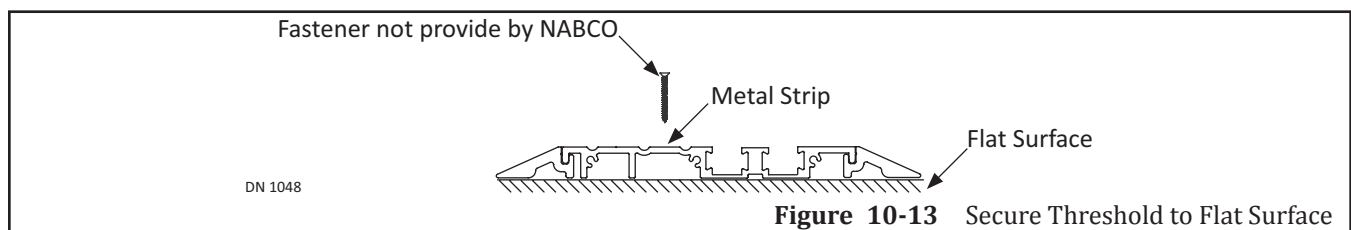
1. Go to each end of Threshold. Mark (1) drill hole approximately 4" from each edge.
2. Mark remaining drill holes to be evenly spaced.



3. With a 1/4 inch masonry drill bit, drill through the Threshold and into the floor no less than 1-1/2 inch deep.
4. Secure the Threshold with Fasteners not provided by NABCO.

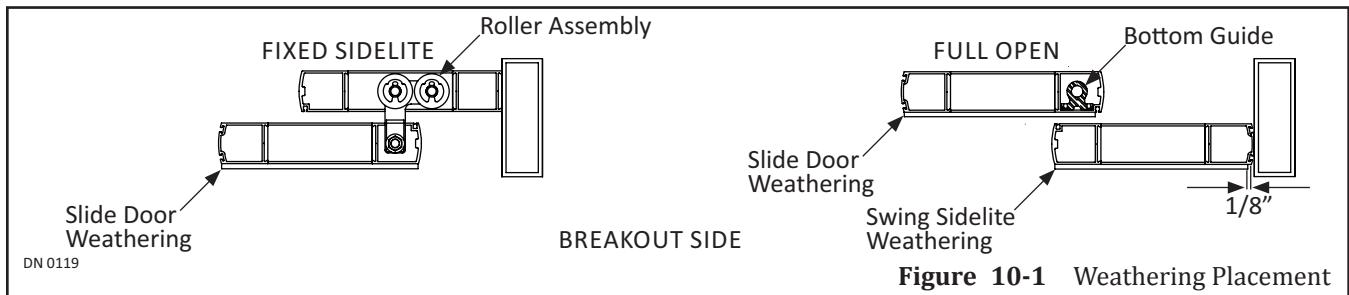
## Section 9f: Threshold Maintenance

1. Check for wear of Bottom Guide Roller and Bumpers inserted within Threshold Channels.
2. Listen for squeaking/grinding noise.
3. Look for dirt/debris/excessive build-up. If dirt/debris/excessive build-up is found.
  1. Vacuum to remove loose material.
  2. Wipe off the Threshold.
  3. Use (1) slotted Screw Driver to remove dirt/debris and/or excessive build-up located within Threshold Channels.
4. Inspect weekly and daily during winter as snow and ice can build up.





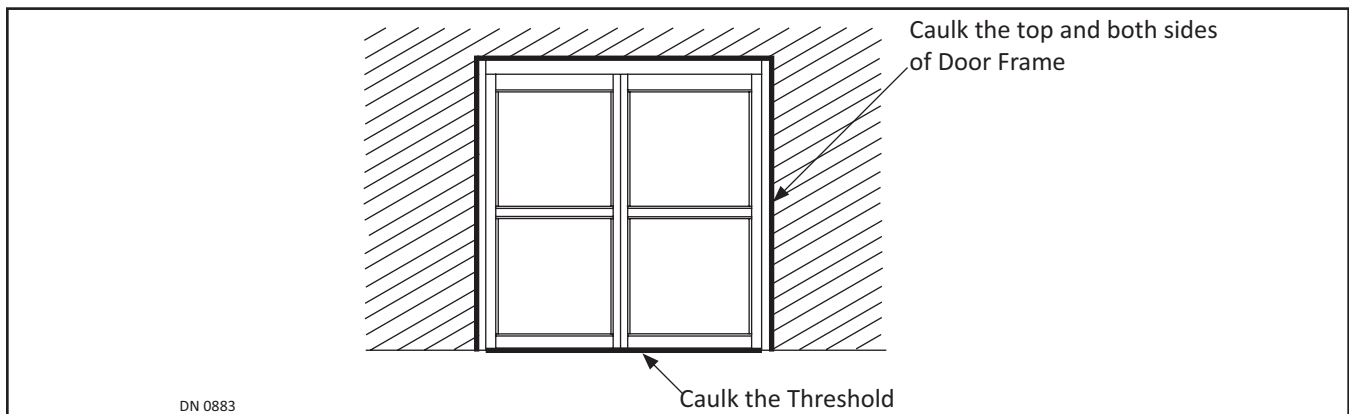
## CHAPTER 10: INSTALL THE WEATHERING



1. Install Brush by sliding it into the Brush Holder:
  - ▶ Fixed Sidelite
    1. Secure the Brush Holder against the Bottom Rail of Slide door with (3) #6 x 1/2 inch self tapping screws.
  - ▶ 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 gap between the Edge of the Pivot Stile and the Brush Holder, while allowing 1/8 inch Vinyl to extend past the Brush Holder so the gap is filled.
    2. Breakout the Swing Sidelite. Secure the Brush Holder against the Bottom Rail of Slide door with (3) #6 x 1/2 inch self tapping screws.

### Section 10a: 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).
3. Apply caulking bead to the Threshold at the bottom of Door Frame.



## CHAPTER 11: INSTALL THE GLASS STOPS

### **WARNING**

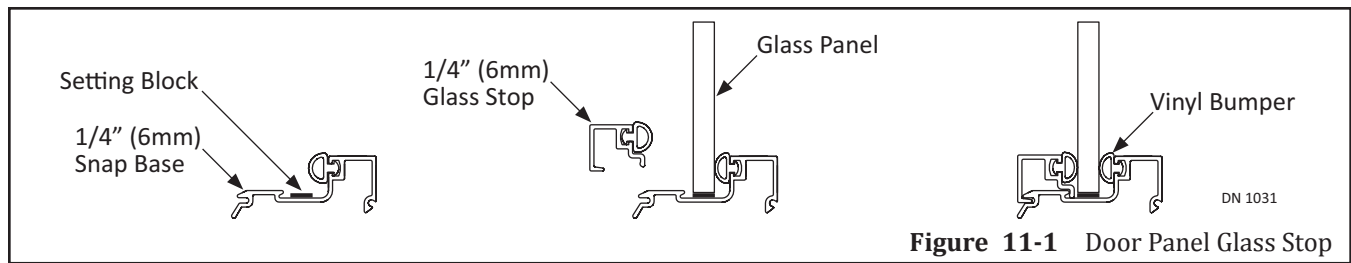
Glazer must be fully trained and qualified. Failure to do so may result in bodily injury, or property damage.

*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 Seals/Gaskets are preinstalled at the NABCO Factory.*

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

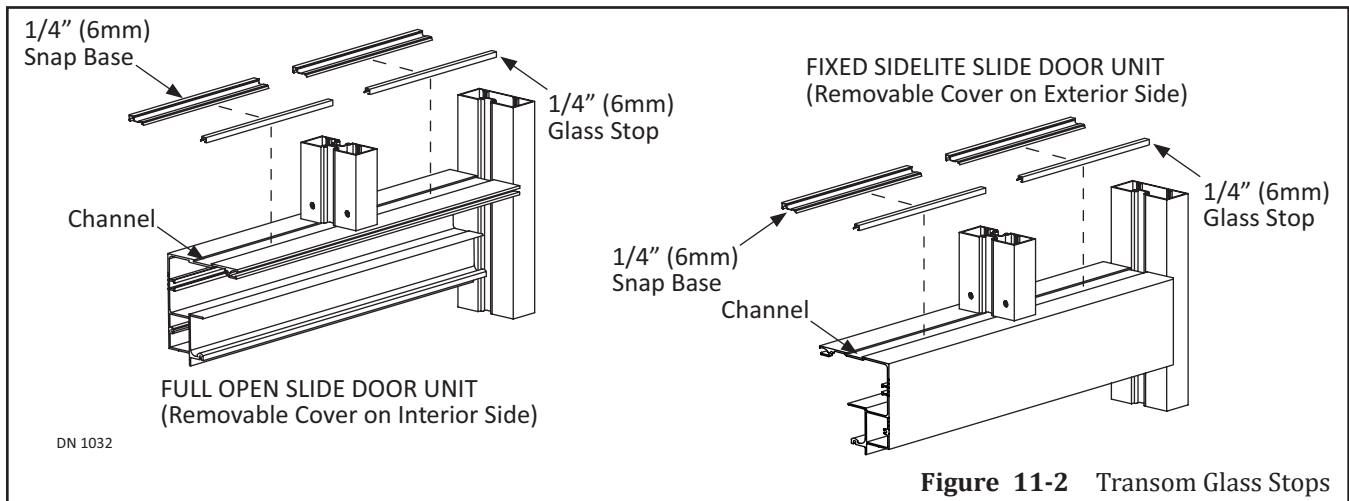


**Figure 11-1** Door Panel Glass Stop

### Section 11b: Transom

*Note: Vinyl Bumpers are preinstalled at the NABCO Factory.*

1. At the top of Header, snap each Snap Base inside the Channel on either side of Vertical Transoms.
  - ▶ Full Open Doors:
    - Install the Snap Base on the Exterior Side of the Building.
    - Removable Cover faces Interior Side of the Building.
  - ▶ Fixed Sidelite Doors:
    - Install the Snap Base on the Exterior Side of the Building.
    - Removable Cover faces the Exterior Side of the Building.
2. Install the Setting Blocks (not provided by NABCO) and Glass Panel.
3. Snap (1) Glass Stop into each Snap Base.



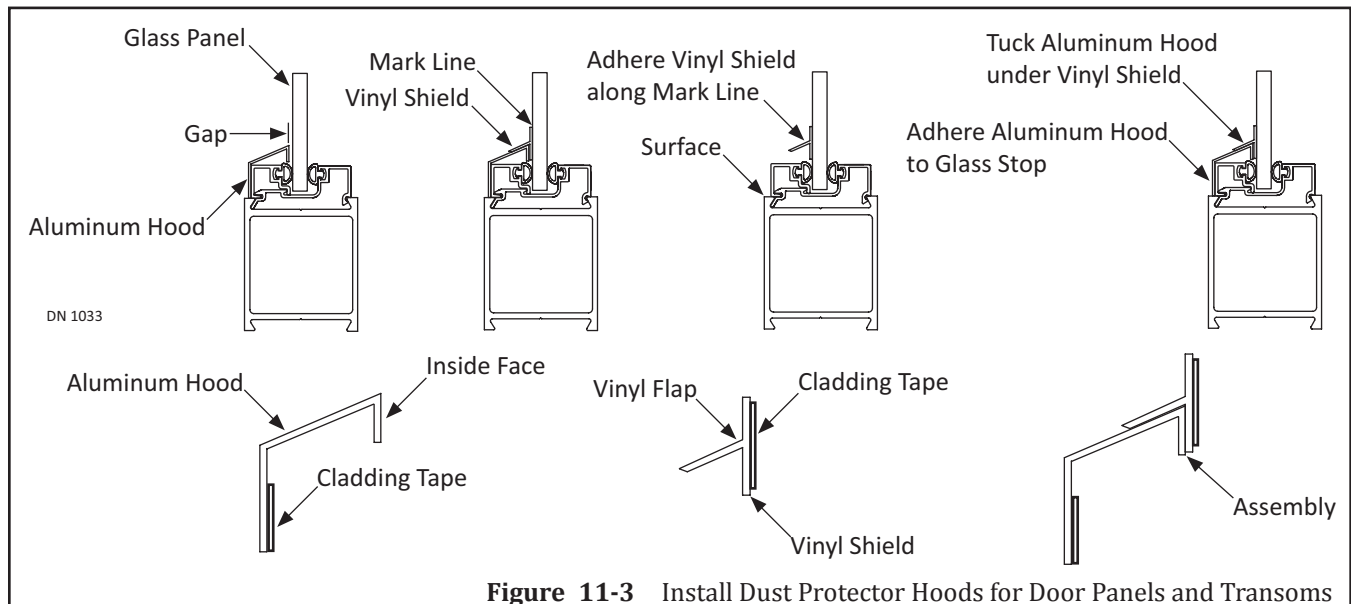
## Section 11c: Dust Protector Hoods (Clean Room)

*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.*

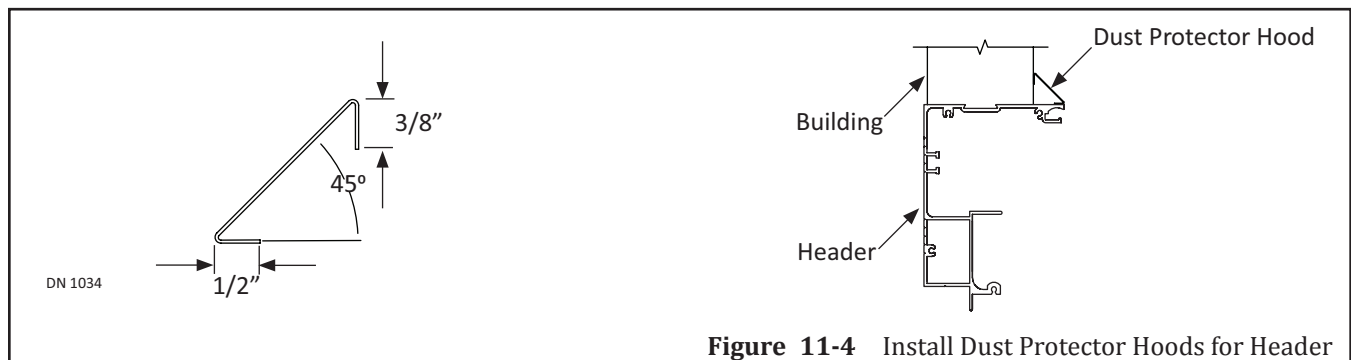
1. Install Glass Stops according to Subsection 14.1 and Subsection 14.2.
2. Place each Aluminum Hood over each Glass Stop so the bottom edge of the Aluminum Hood is resting on the surface.
  - a. Do Not remove protective paper from double sided Cladding Tape at this time.
3. Insert the bottom half of each Vinyl Strip inside the gap that is located behind the Aluminum Hood. The Vinyl Flap must be laying on top the Aluminum Hood.
4. 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.
5. Remove the assembly.
6. Remove the protective paper to expose the Cladding Tape from the Vinyl Shield.
7. Align the Vinyl Strip to the temporary Mark and adhere to the Glass Panel.
8. Remove the protective paper to expose the Cladding Tape from the Aluminum Hood.
  1. Align the Aluminum Hood with the Vinyl Shield.
  2. 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. Go to the side of Header that has the Removable Cover.
2. 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.
  - a. Ensure proper length and fit is correct.
3. Remove all protective paper to expose the Cladding tape.
4. Adhere the Stainless Steel Hood to the Header.

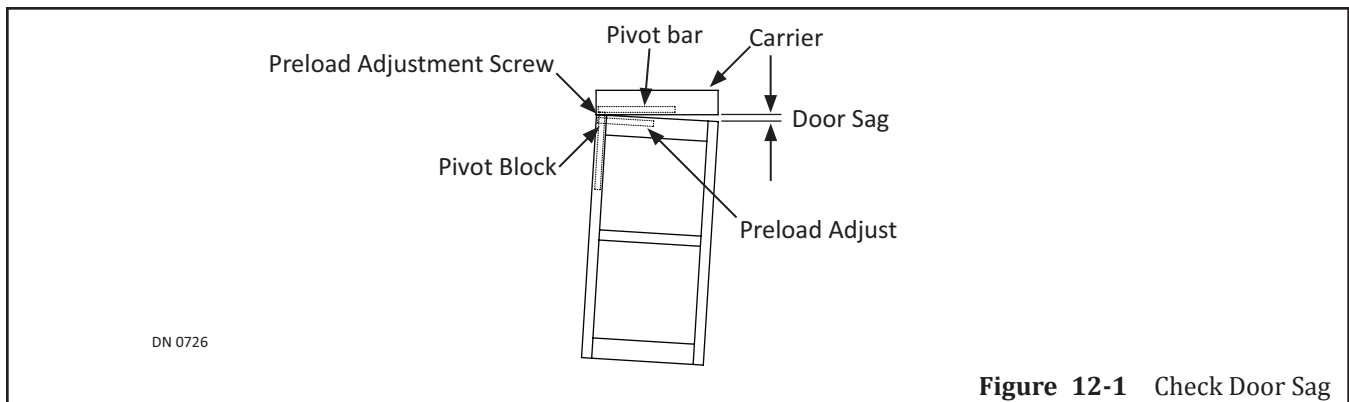


**Figure 11-4** Install Dust Protector Hoods for Header

## CHAPTER 12: ADJUSTMENTS

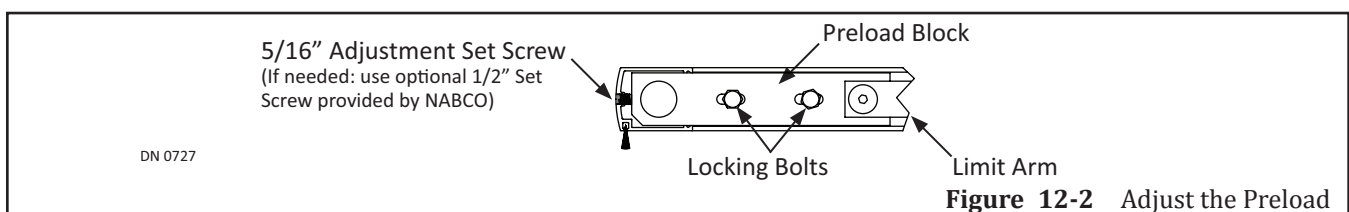
### Section 12a: Adjust Preload

1. Support the weight of Slide Door, then Breakout Slide door approximately 5 degrees (just enough to expose the Preload Adjustment Screw located on back edge of door). Do not let Slide door push up against any other Door Panel.
2. Check for door sag. The Slide door should latch without having to be manually lifted.



**Figure 12-1** Check Door Sag

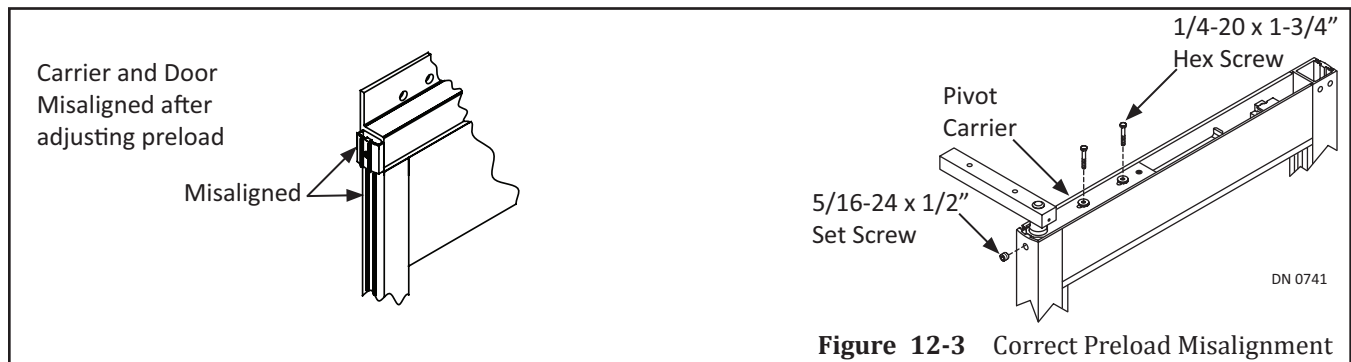
3. Go to the Preload Block located inside Top Rail. Loosen (2) Locking Bolts.
4. Go to the back edge of Pivot Stile. Reduce Door sag by tightening the 5/8 inch Set Screw with an 7/32 inch Allen Wrench. Do Not allow the Adjustment Set Screw to protrude more than 7/32 inch past the end of stile.
  - a. If deemed necessary, substitute the 5/8 inch Set Screw with the optional 1/2 inch Set Screw supplied by NABCO.



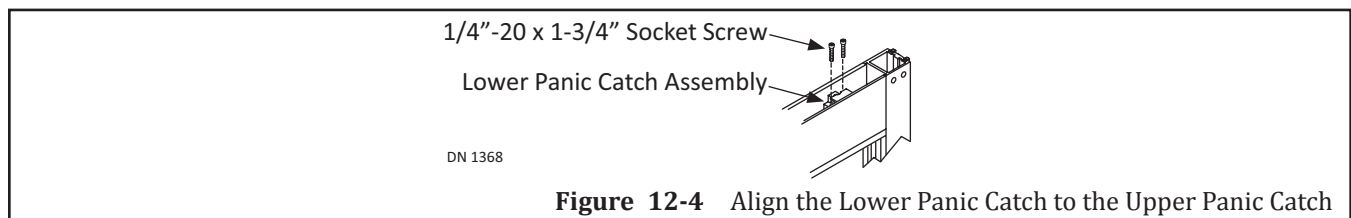
**Figure 12-2** Adjust the Preload

#### 12.a.a Correct Preload Misalignment

1. Break Open the Slide Door. Locate the Carrier Pivot Assembly inside the Top Door Web.
2. Loosen the 5/16-24 x 1/2 Set Screw located on the Pivot Stile at the Top.
3. Loosen (2) 1/4-20 x 1.75 Hex Screws used to secure the Carrier Pivot Assembly to the Top Door Web.
4. Slide the Carrier Bar to the left or right, until the Slide Door is aligned to the Carrier.
5. Tighten all screws.

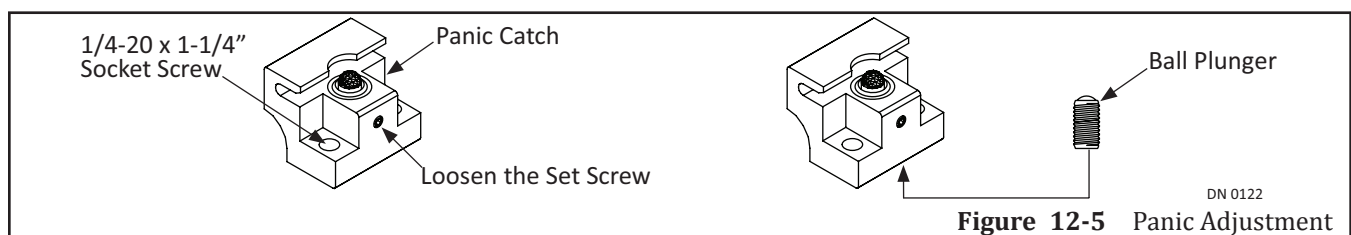


6. Verify that the Lower Panic Catch inside the Door Web is still aligned to the Upper Panic Catch inside the Carrier. If an adjustment is necessary:
  1. Go to the Lower Panic Catch. Loosen (2) 1/4-20 X 1-1/4 inch Socket Screws used to to secure the Lower Panic Catch to the Door Web.
  2. Slide the Lower Panic Catch to the right or to the left until it is aligned to the Upper Panic Catch. Tighten Socket Screws.



### 12.a.b Adjust the Ball Plunger

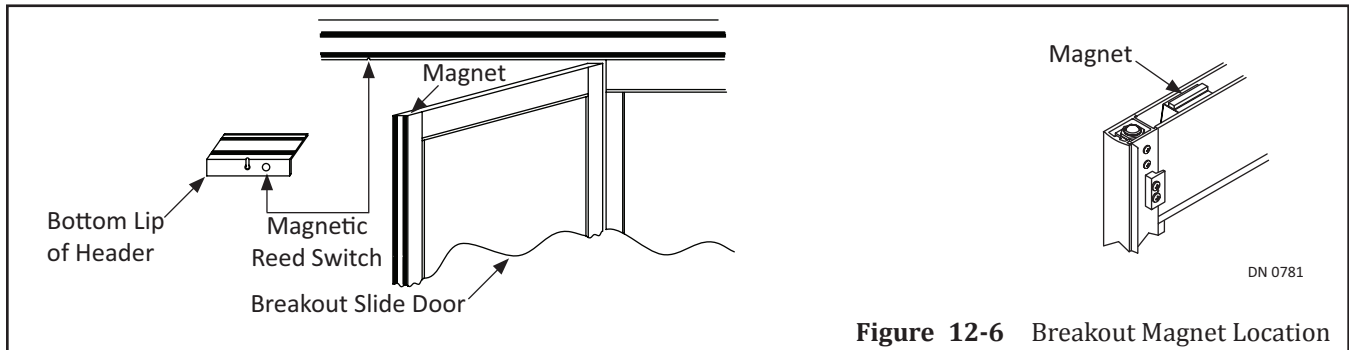
1. Breakout the Slide door. Go inside the Top Rail (closest to the Strike Stile). Remove the Panic Catch Assembly.



2. Loosen the Set screw that is located in front of the Panic Catch.
3. Go underneath the Panic Catch. Raise or lower the Ball Plunger to adjust the engagement.
  - a. The Ball Plunger must be adjusted for proper breakout resistance to meet ANSI A156.10 code and/or local code.
  - b. Use minimal engagement if Panic Hardware is used.
4. Tighten the Set screw. Secure the Panic Catch Assembly inside the Top Rail with (2) 1/4-20 x 1-1/4 inch Socket Head screws.

### 12.a.c Adjust the Breakout Magnet

1. The Magnet is secured to the Limit Arm Bracket that can slide to the Left and Right. Slide the Breakout Magnet to the Left or to the Right until it is aligned with the Magnetic Reed Switch.
  - a. The Magnetic Reed Switch is a 3/8 inch diameter black circle located on the Bottom Lip of Header.



**Figure 12-6** Breakout Magnet Location

### 12.a.d 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. Locate the Nose Caster that was pre-installed within the Strike Stile.

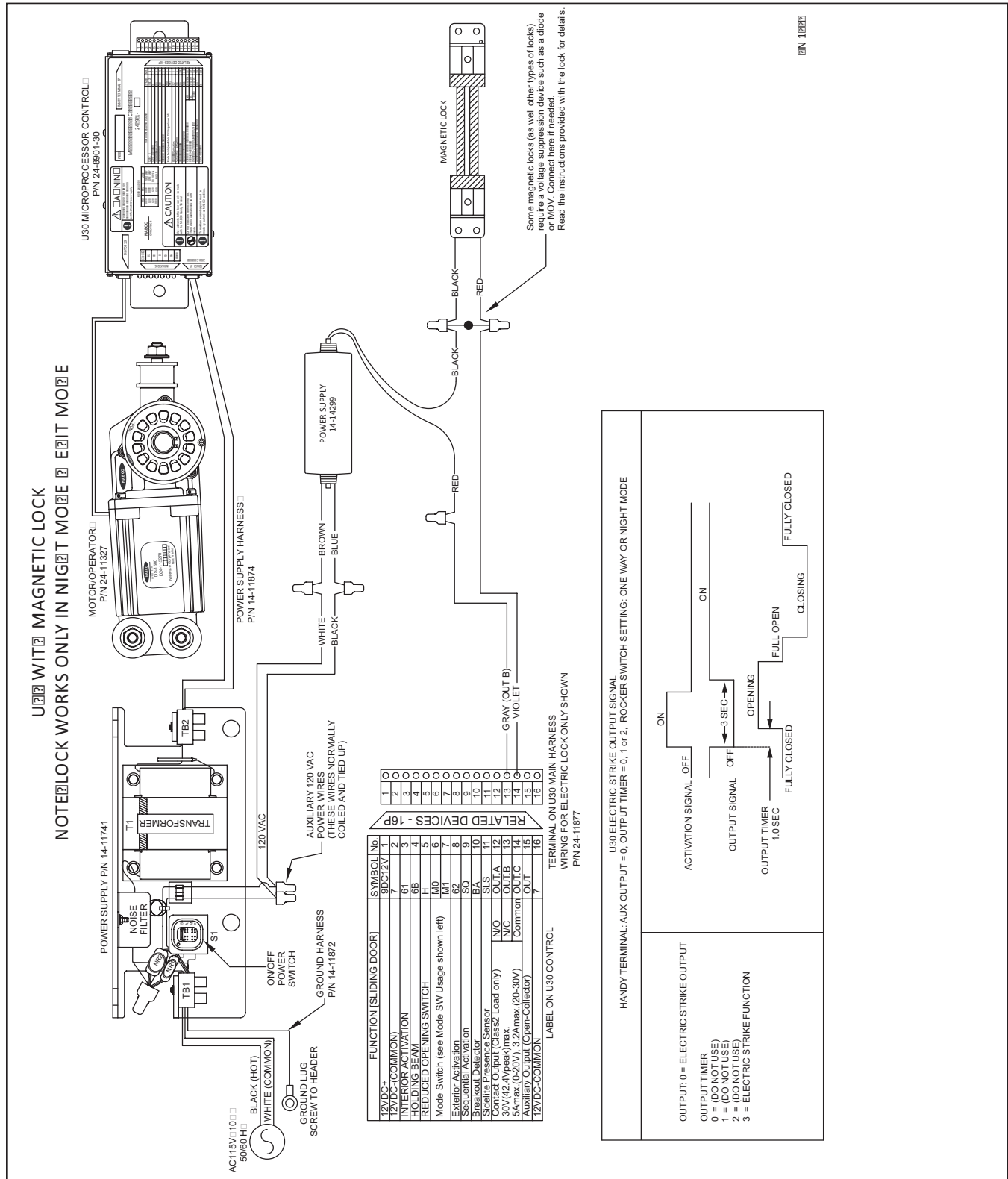


**Figure 12-7** Adjust the Nose Caster

3. Loosen the #8-32 Set Screw. Position the Wheel so it is perpendicular to the Bottom Rail. Retighten the #8-32 Set Screw.
4. Fully close the Slide door. Ensure the Nose Caster does not hit or scrape the floor. Reinstall the End Cap.

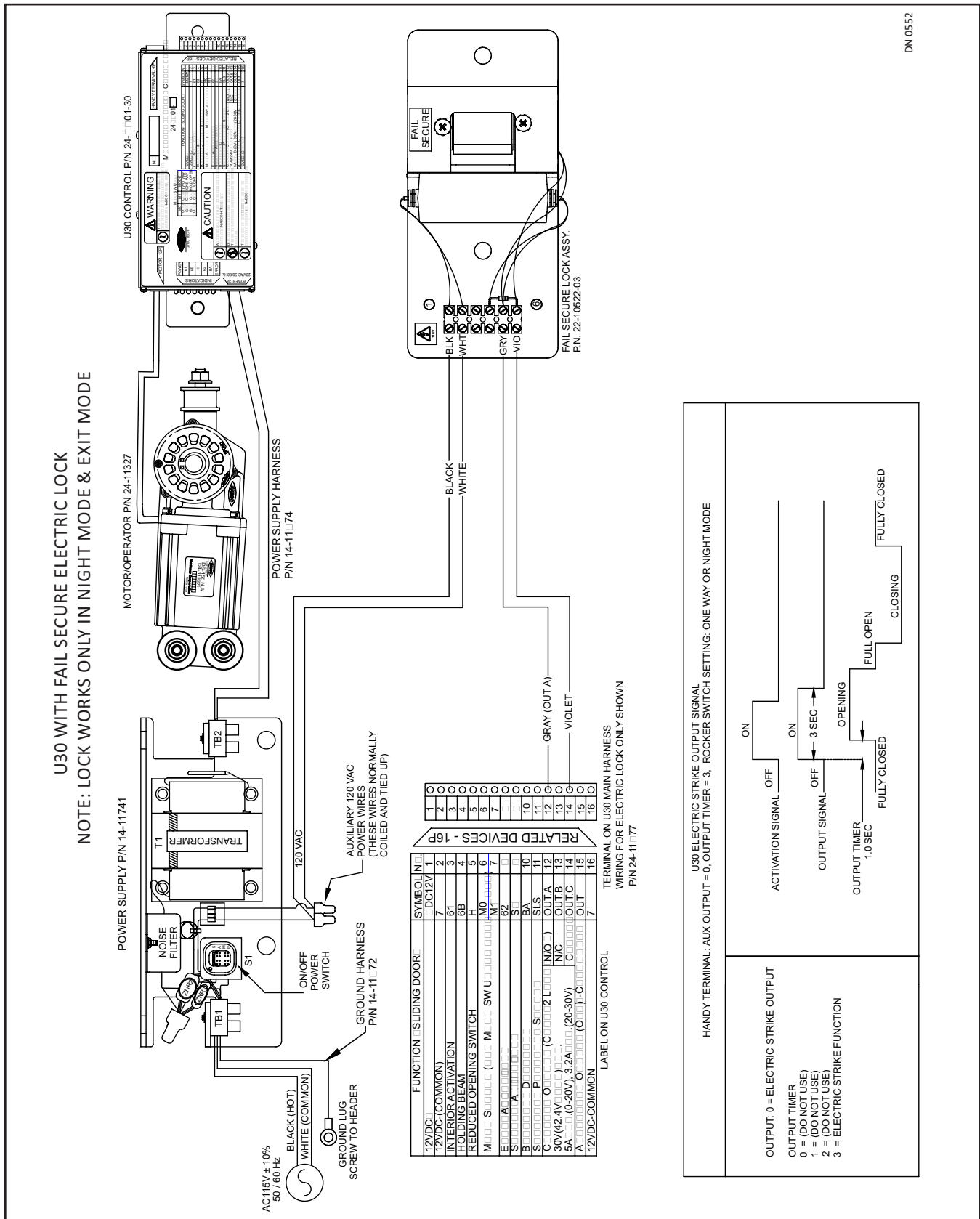
## CHAPTER 13: ELECTRIC LOCK WIRING

## Section 13a: U30 with Magnetic Lock

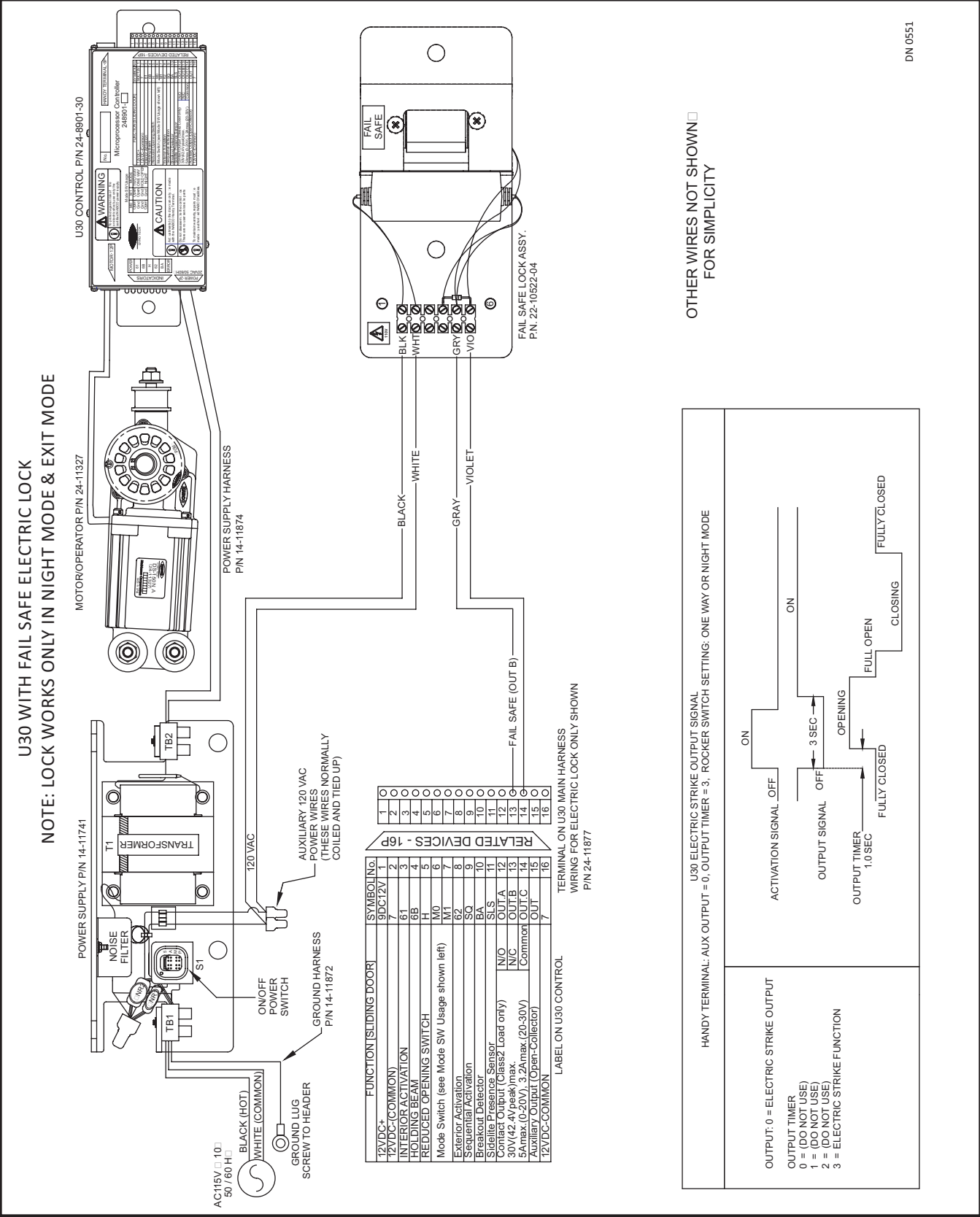




## Section 13b: U30 with Fail Secure Electric Lock

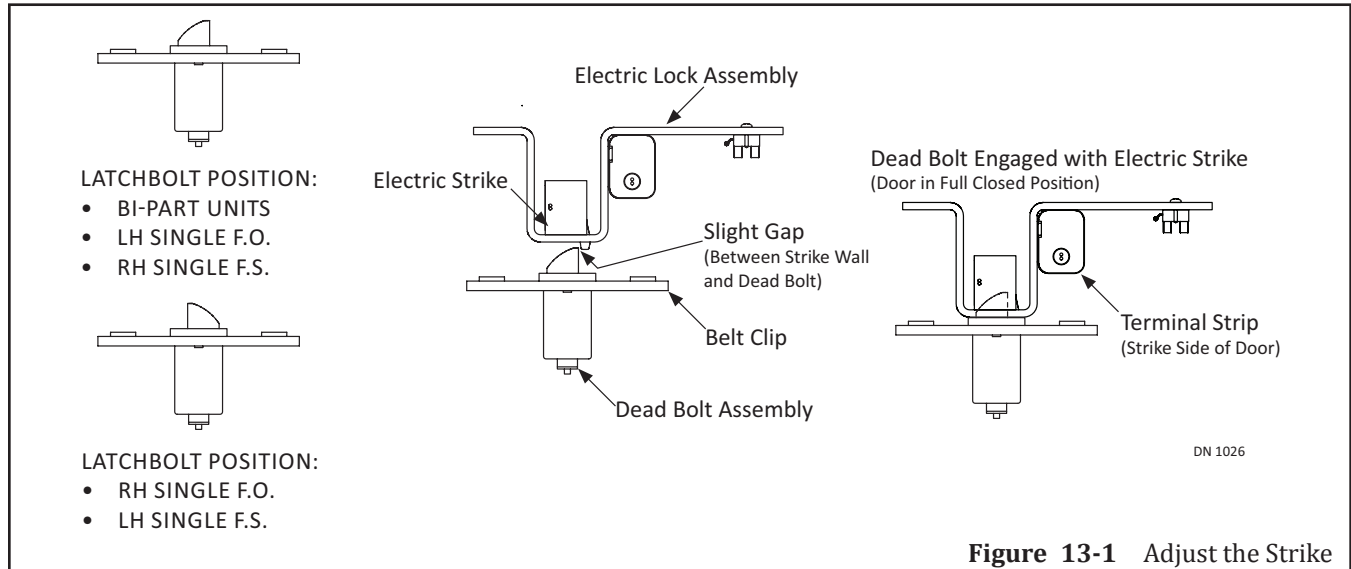


Section 13c: U30 with Fail Safe Electric Lock



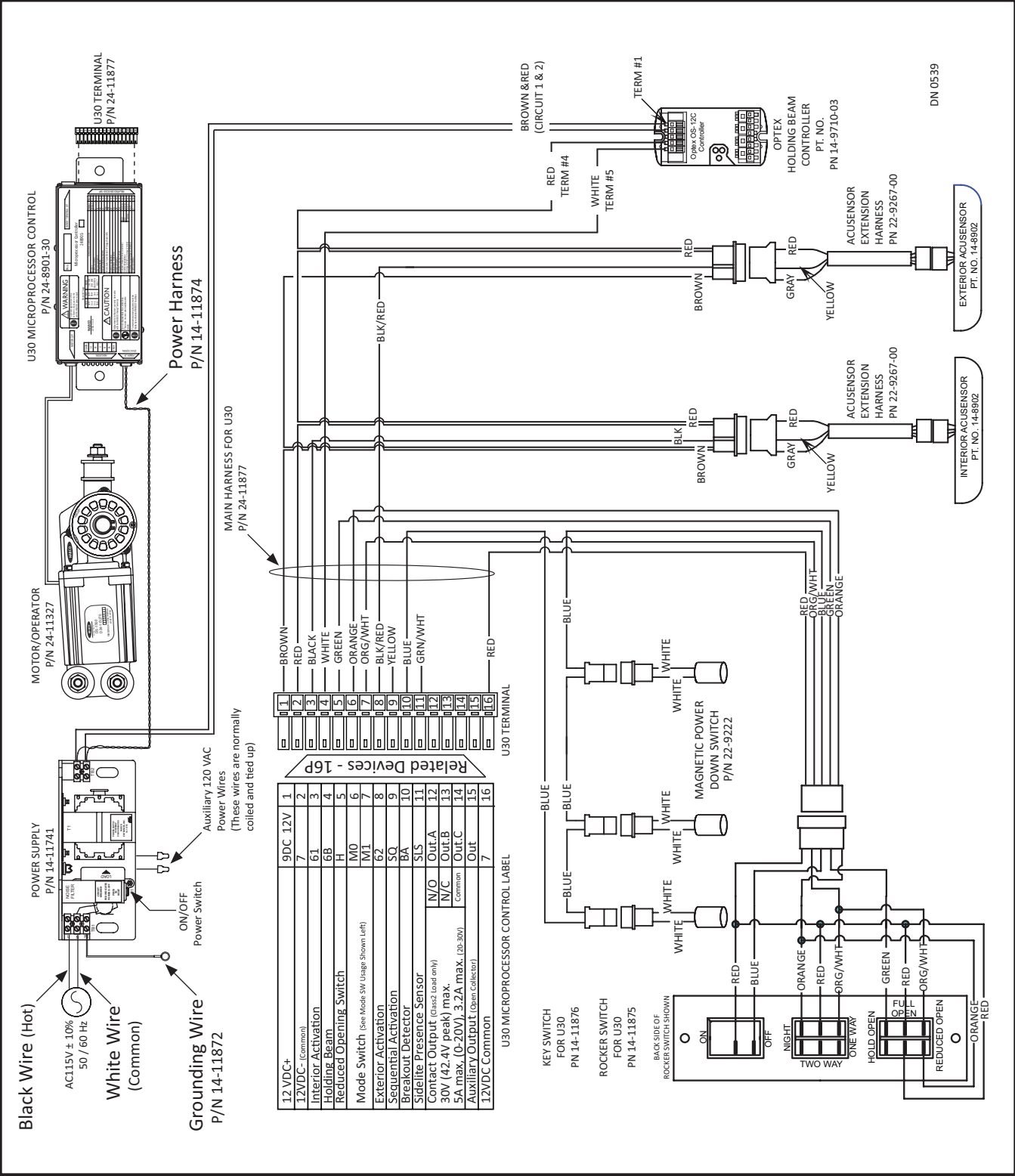
## Section 13d: Strike Adjustment

For detailed Electric Lock Wiring information and instructions, please refer to; P/N 15-10596-30, U30 Electric Manual”.

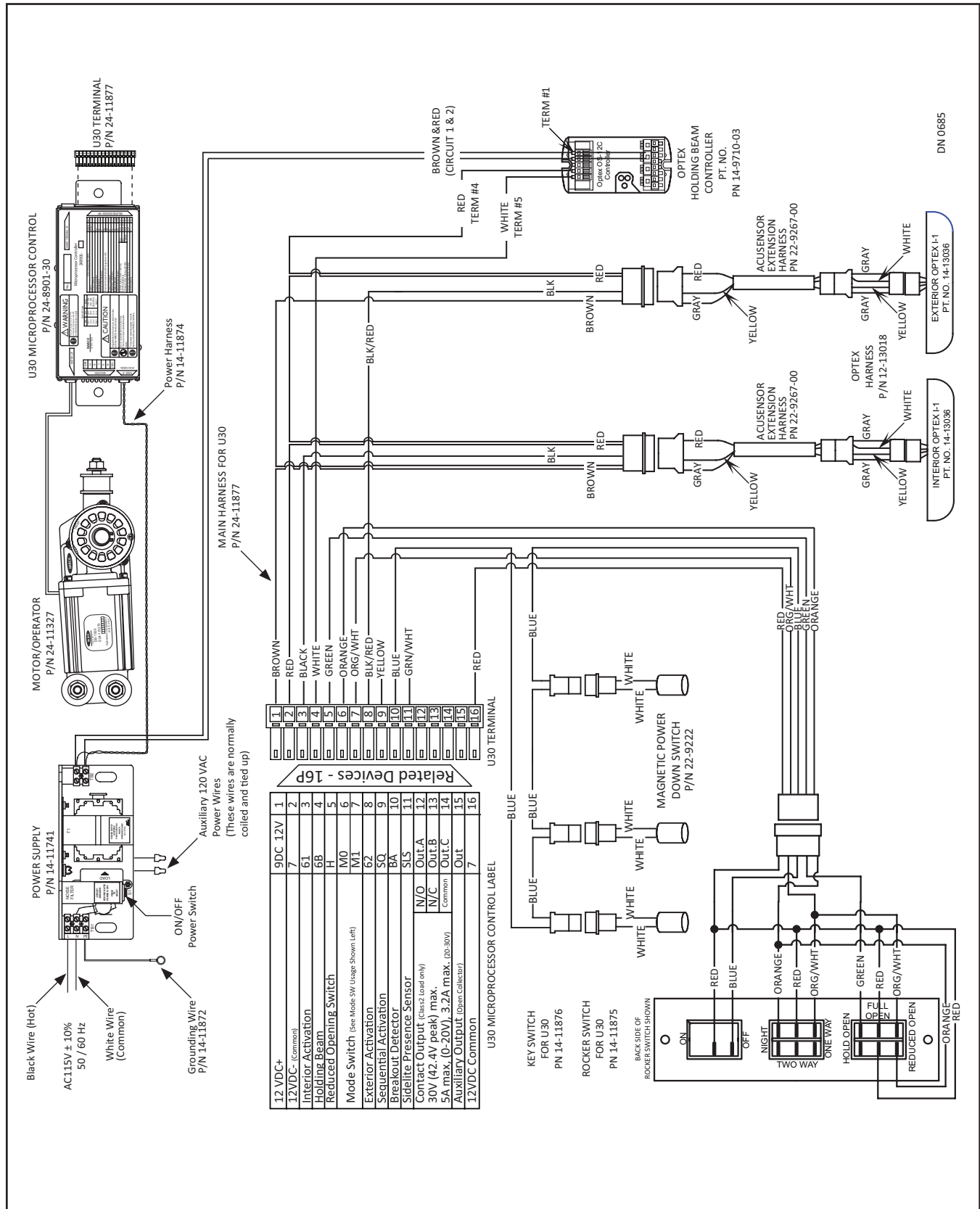


CHAPTER 14: GENERAL WIRING

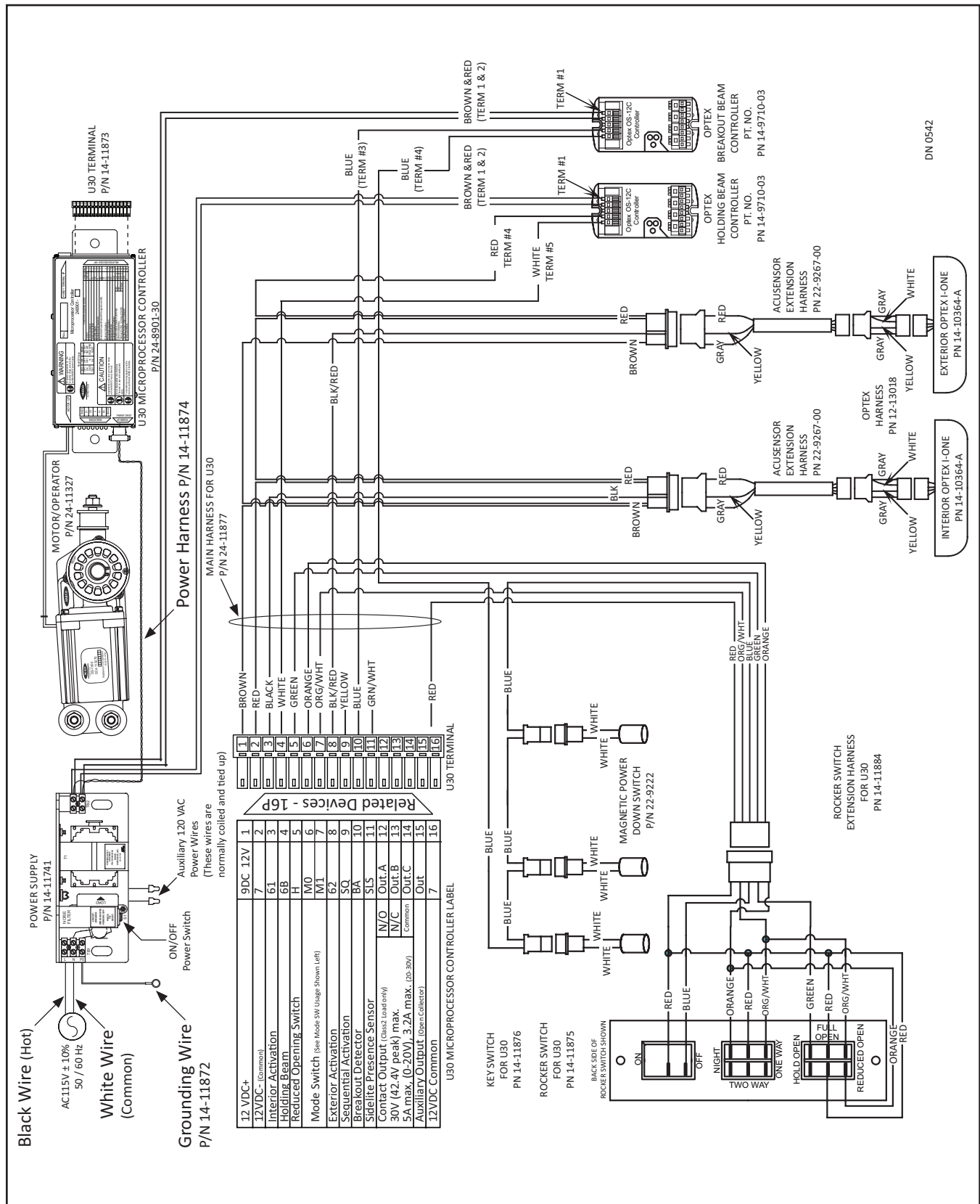
14.1 (2) Acusensors and (1) Holding Beam



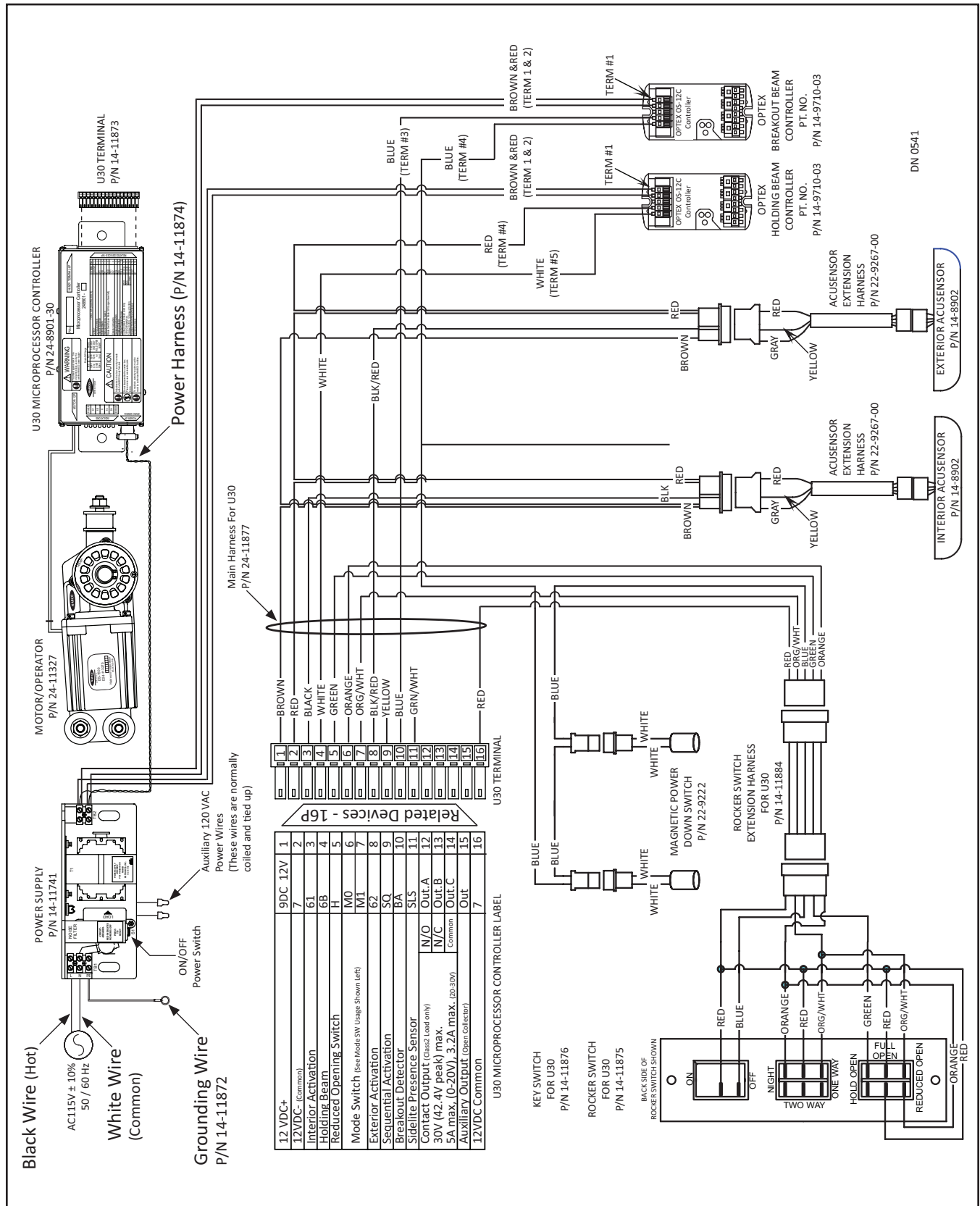
## 14.2 (2) Optex i-One Sensors, (1) Holding Beam and (1) Breakout Beam



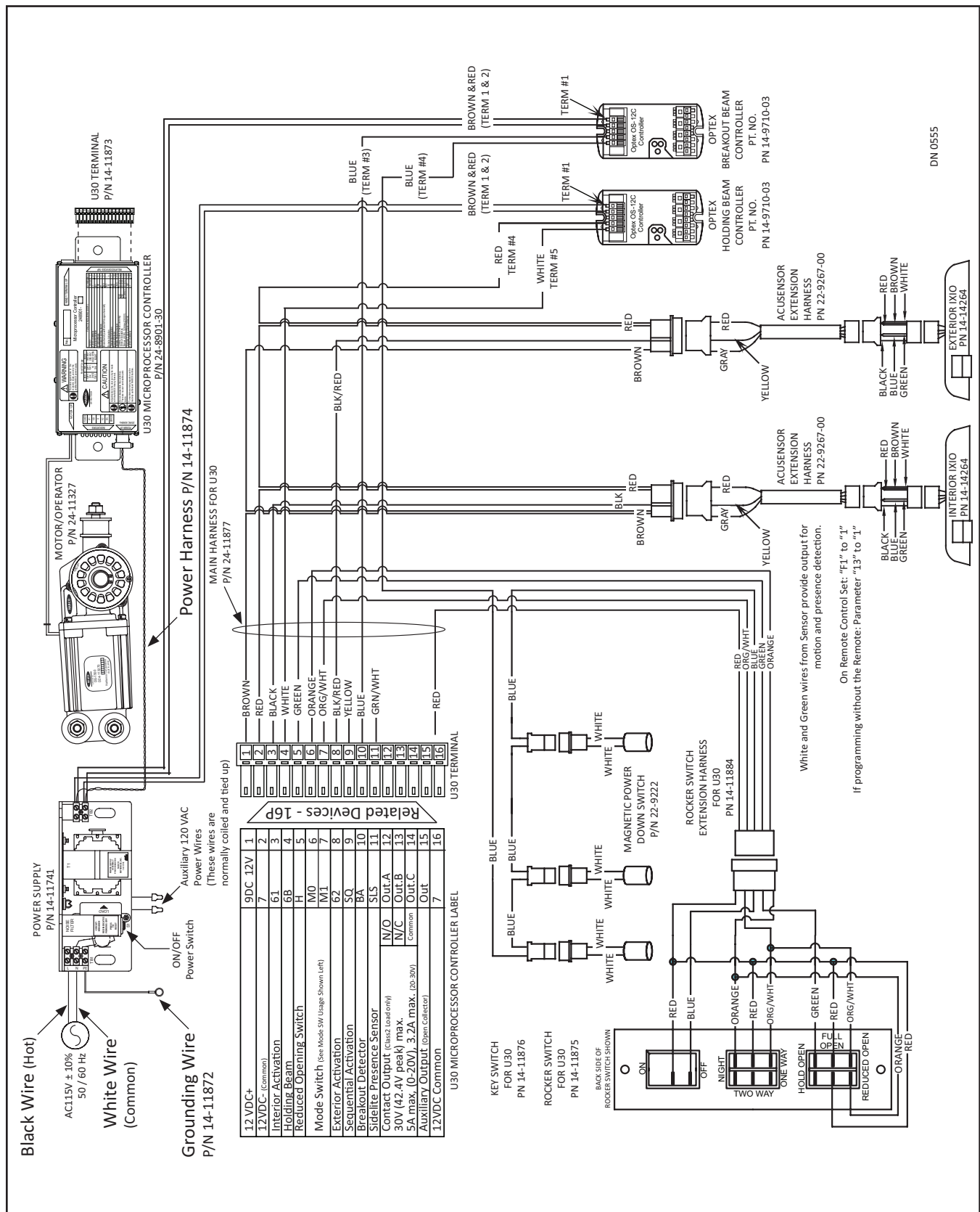
### 14.3 (2) Optex i-One Sensors, (1) Holding Beam and (1) Breakout Beam



## 14.4 (2) Acusensors, (1) Holding Beam and (1) Breakout Beam

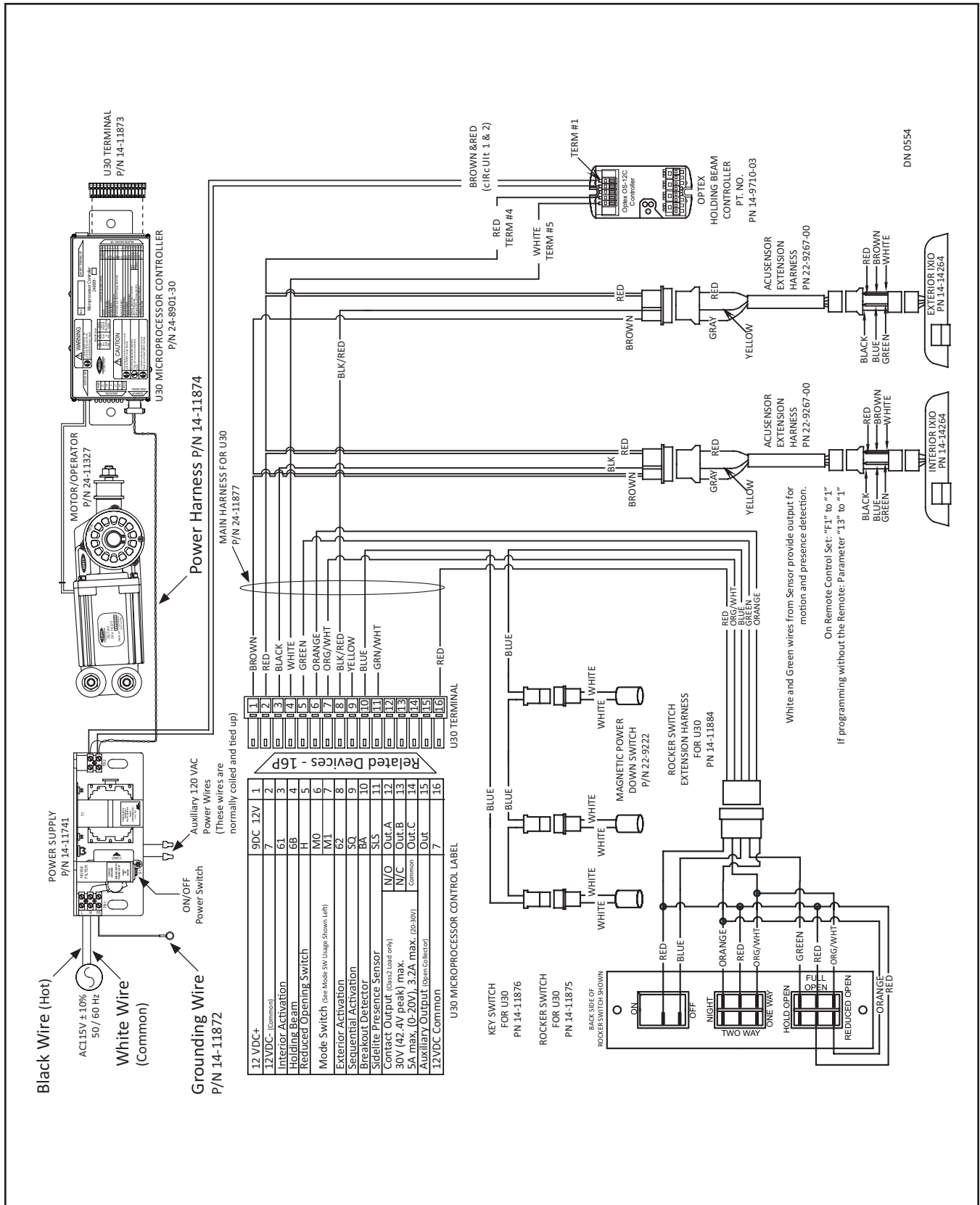


## 14.5 (2) IXIO, (1) Holding Beam and (1) Breakout Beam

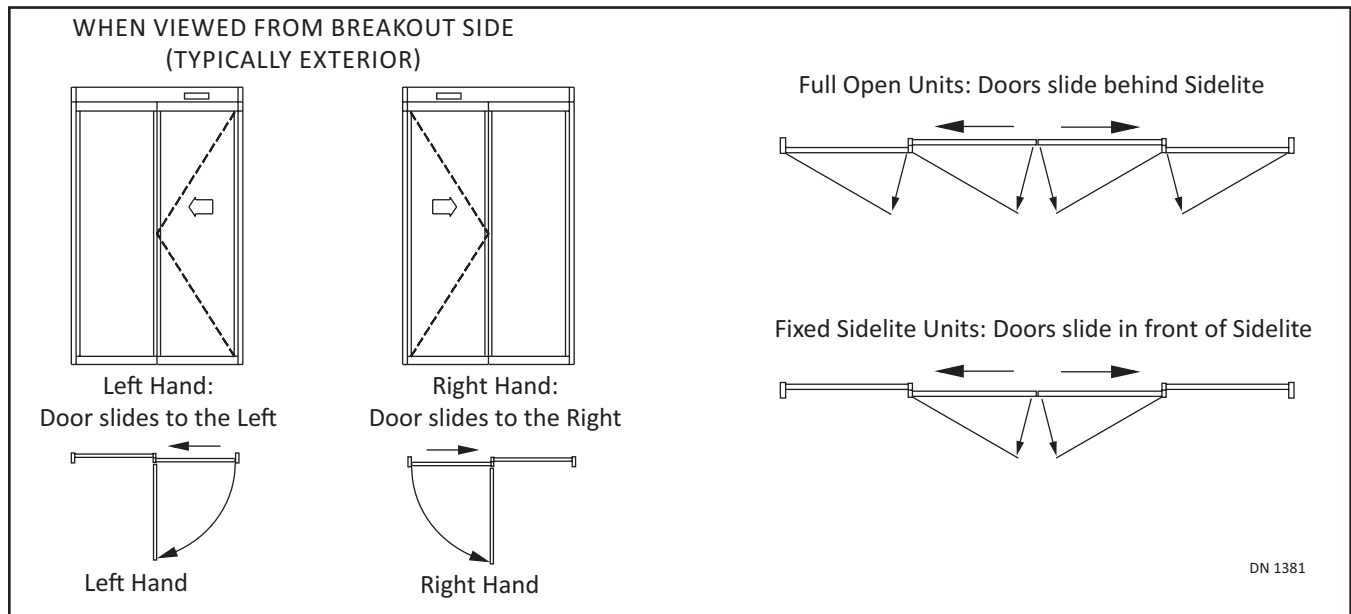




## 14.6 (2) IXIO, and (1) Holding Beam



## CHAPTER 15: HANDING



### 15.a Test the Handing

1. Turn Power OFF.
2. Manually slide the Slide door half way open.
3. Turn Power ON. The Slide door should slowly close (per Power On factory settings).

### 15.b Install the Handing Harness

1. Turn Power OFF.
2. Obtain the Handy Terminal Harness. Plug the Telephone Jack end into the U30 Microprocessor Control. Remove the Protective Cap from the female end.
3. Obtain the Cable. Slide back the metal sleeve on the male end of the Cable. Connect the Cable to the female end of the Handy Terminal Harness.
  - a. The male end of the Cable has multiple prongs that must line up with the socket. Gently turn the plug end clockwise while trying to insert the male end until a connection can be made.
4. Connect the other end of the Cable to the Handy Terminal. Turn Power ON.
5. Press: **ENTRY** until the screen displays: **SPECIAL FUNCTION ADJUSTMENTS** Then select: **Y**
6. Continue pressing: **ENTRY** until the Screen displays: **RECYCLE** Change the setting Y/N.
7. Disconnect the Handy Terminal.
  - a. Wait at least (10) seconds before disconnecting Handy Terminal to allow last test to complete and message display to stabilize.
8. Turn Power OFF.

9. Manually slide the Slide door half way open.
  1. Turn Power ON.
  2. The Slide door should slowly close (per Power ON factory settings).
  3. Plug the Handy Terminal back into the Terminal Connector.

