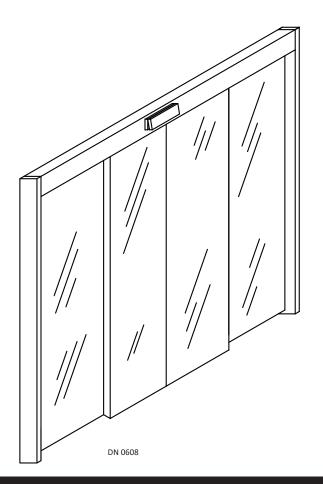


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GT-1175 All Glass Whisper Slide Instruction Manual ** with U30 Microprocessor Controller**



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.

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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.

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 troublishooting or service must be performed by qualified electrical technicians and must comply with all applicable governing agency codes.
- ► 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 is used to cover the GT-1175 All Glass Whisper Slide door system. Other local standards or codes may apply. Use them in addition to the ANSI standards. The GT-1175 Slide door system is listed with the Underwriters Laboratory and is identified accordingly on the label.

Instruct the building owners and operator on the essentials of the operation of the GT-1175 All Glass Whisper Slide door system. 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 All Glass Whisper Slide door system is designed to be installed within the frame of the door opening. The door function is controlled by the U30 Microprocessor Controller.

This manual offers step by step instructions.

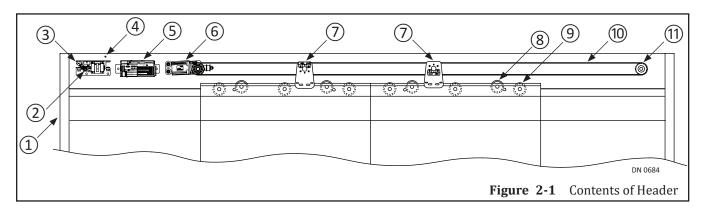
Scope 1-5

CHAPTER 2: GETTING STARTED

The GT-1175 slide door system completely eliminates vertical framing resulting in a sleek contemporary look. The new low profile bottom rail allows a larger unobstructed view that is perfect for showcasing an attractive lobby or well-manicured grounds.

As part of the Whisper Slider series, the elegant All Glass Slider has the same silent motorized belt drive and large urethane door rollers for quiet, smooth operation plus an anodized roller track for long lasting durability. Fixed sidelights are standard.

Section 2a: Parts of the Header



- 1. Jamb Tube
- 2. Power Cut Off Switch
- 3. Power Supply
- 4. Handy Terminal Connector
- 5. U30 Microprocessor Controller
- 6. Motor Operator Assembly
- 7. Belt Clip
- 8. Anti-Riser
- 9. Hanger Roller
- 10. Drive Belt
- 11. Idler Pulley

Section 2b: Header Layout

Nabco GT-1175 All Glass Whisper Slide Door systems come in many sizes and configurations. Because of this components within the Header are layed out in (1 of 3) different configurations to ensure proper operation of the Drive Belt. Please see configuration details listed below:

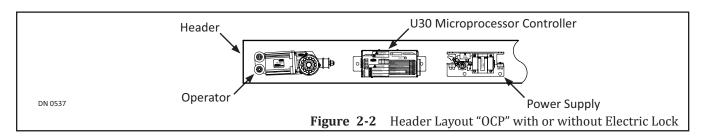
- ► Operator/Control/Power
 - Header Width is not wide. Motor Operator needs to be installed to the left of the U30 Microprocessor Controller. Please see Figure 2-2.
- ► Power/Operator/Control
 - Header Width is wide, but Motor Operator still needs to be installed between the Power Supply and the U30 Microprocessor Controller. Please see Figure 2-3.
- ► Power/Control/Operator
 - Header Width is wider. Motor Operator can be installed to the right of the Power Supply and the U30 Microprocessor Controller. Please see Figure 2-4.

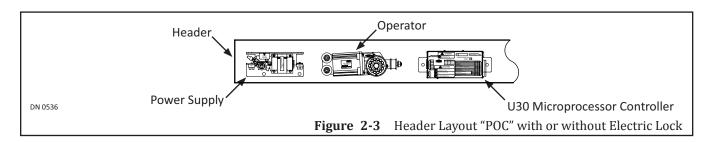
2-6 Getting Started

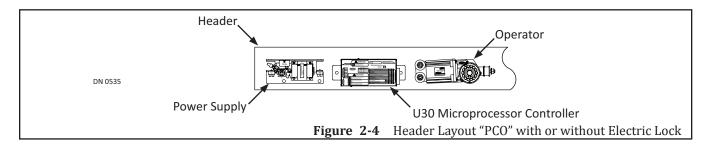
Note: The Power Supply must never be installed between the U30 Microprocessor Controller and the

Motor Operator.

Note: No matter the location, electrical wiring for all (3) components stays the same.







Section 2c: Electrical Specifications

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

GT-1175 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 closest to the Power Supply and motor/operator. Refer to electrical manual P/N $\,$

15-10596-30 for more information.

Table 2-1. Electrical Specifications

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

Getting Started 2-7

Table 2-2. Material Specifications

List of Materials					
► Box or Open End Wrench	► Phillips Screwdrivers				
• 7/16"	• #2 and #3				
• 9/16"	► Slotted Screwdrivers				
• 15/16"	Small and Medium				
► Drive Socket Wrench	► Hand Drill				
• 3/8"	Electric and Cordless				
► Socket	▶ Drill Bits				
• 3/8"	• 1/8"				
• 9/16"	• 7/32"				
► Socket Extension	• 1/4" and 1/4" Masonry				
• 6"	82 Degree Countersink				
► Allen Wrenches	▶ Broom				
• 3/32" and 3/16"	► Tape Measure				

Section 2d: Trouble Shooting

Please refer to "Electrical Installation Manual Sliders", Part Number 15-10596-30 for detailed solutions to a list of problems.

Section 2e: Wiring

Please refer to the "Electrical Installation Manual *Sliders*", Part Number 15-10596-30; for detailed wiring diagrams.

Section 2f: U30 Microprocessor Control

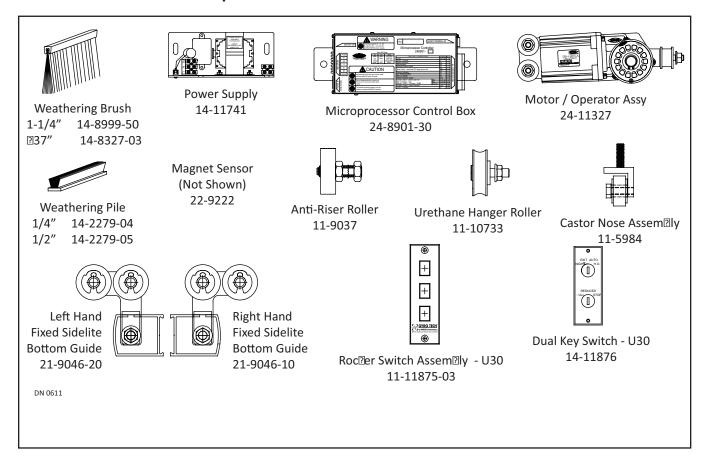
The U30 Microprocessor Control has been designed to control the numerous operating characteristics of the slide door system including speed, recycling sensitivity and reduced door opening width. It will need to be programmed after installation is complete. For detailed information, please refer to the "U30 Controller Setup and Programming Manual" Part Number 15-9000-30.

Section 2g: References

- ► Model GT-1175 Electrical Installation Manual w/U30 Microprocessor Controller, P/N 15-10596-30.
- ▶ U30 Controller Setup and Programming Manual; P/N 15-9000-30.

2-8 Getting Started

Section 2h: Common Replacement Parts



Getting Started 2-9

CHAPTER 3: PREPARE THE ROUGH OPENING

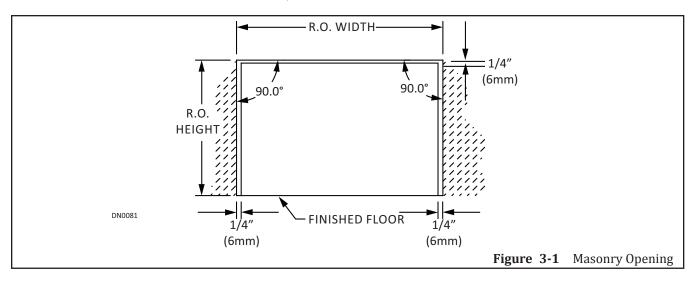
Note: Make allowances for tile or other existing materials that may change the floor height.

- 1. Ensure the Rough Opening is the correct size. Please see Figure 3-1.
 - ► The width of the Rough Opening should equal:

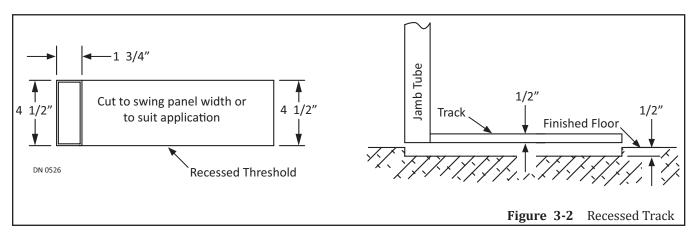
PACKAGE WIDTH + 1/4 INCH ON EACH SIDE

► The height of the Rough Opening should equal:

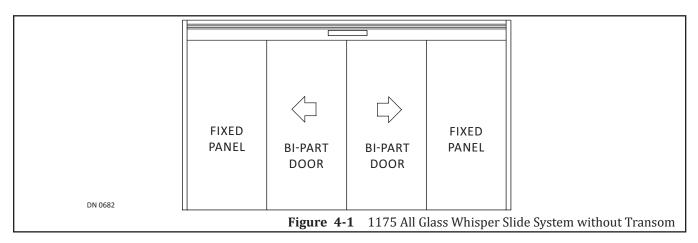
PACKAGE HEIGHT + 1/4 INCH ON EACH SIDE



- 2. Check to make sure that the floor is level across the entire opening.
- 3. If used, check track recesses under:
 - **▶** JAMB TUBES
 - **►** TRACK
 - ACROSS THE DOOR OPENING

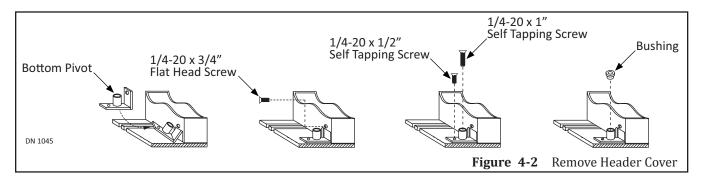


CHAPTER 4: INSTALL FRAME (WITHOUT TRANSOM)

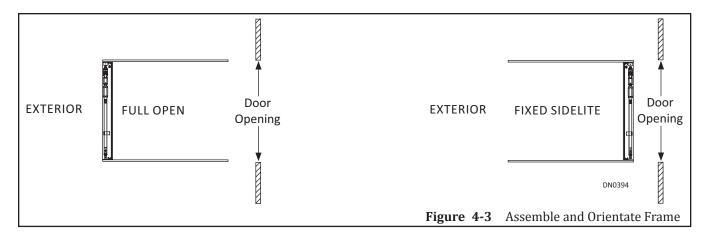


Section 4a: Assemble Header to Jamb Tubes

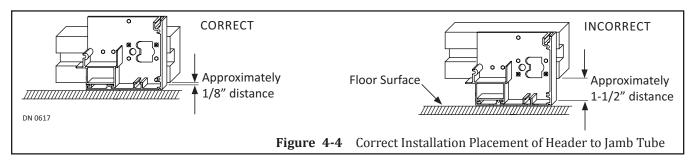
- 1. Place the Header on a flat surface with the removable cover facing up.
 - a. Protect header from scratches.
- 2. Remove two screws from underneath cover.
 - a. Save screws for reinstallation.
- 3. Remove the Cover by lifting it up from Header, and then pulling it out. Please see Figure 4-2.



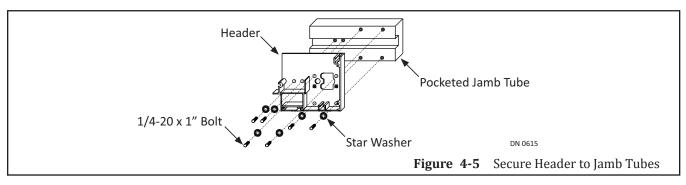
- 4. Remove Parts box and/or Parts bags from inside Header. Set aside.
- 5. Position Jamb tubes on either side of Header. Please see Figure 4-3.
 - a. Please refer to the instruction sticker located on each Jamb tube, for proper location and orientation.
- 6. Orientate the Frame in relation to the building:
 - ► Fixed Sidelite
 - Frame must be positioned to face the Exterior.
 - ► Full Open
 - Frame must be positioned to face the Interior.



- 7. Remove 1/4-20 x 1 inch bolts and star washers that were pre-screwed inside Jamb tubes.
 - a. Save hardware for reinstallation.
- 8. Ensure each Jamb tube is on the correct side of the Header. Please see Figure 4-4.
 - a. If assembled correctly, from the floor, each Jamb tube will approximately be located 1/8 inch from the bottom of Header.



9. Secure Header to each Jamb Tube with $1/4-20 \times 1$ inch bolts and star washers that were saved by inserting them through access holes and into pre-installed rivnuts. Please see Figure 4-5.

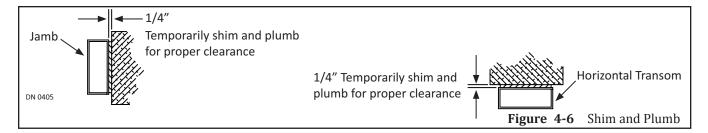


Section 4b: Secure Frame to Building

- 1. Lift to position assembled Frame into the rough opening.
- 2. Plumb Jamb tubes in both planes to ensure the rough opening allows a 1/4 inch clearance. Please see Figure 4-6.
 - a. Shim back of Jamb as required.

Note:

Rev. 10-09-12 Part #15-5980



- 3. Plumb Header at the top to ensure the rough opening allows a 1/4 inch clearance.
 - a. Shim top of Header as required.

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 pre drilled prior to installing into the opening.

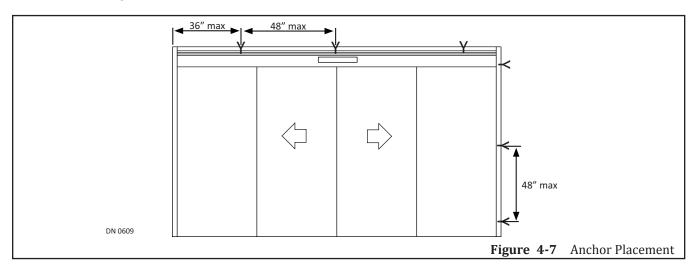
To prevent Header sag, the Header must be secured in the middle to the top horizontal structural member of the opening. Use of 3/8 inch threaded rod or 1/4 inch bolts are acceptable methods of supporting the center of the header.

4.b.a: Anchor Placement for Header

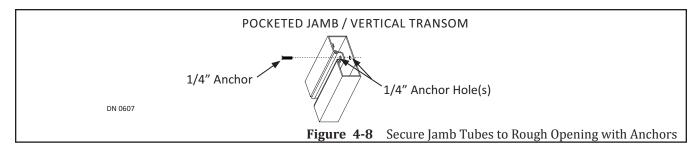
Use 1/4 inch diameter anchors or 3/8 inch threaded rods, with a maximum 48 inches on center. First anchor maximum is 36 inches from each end of the Header. Anchors must be appropriate for the type of structure being fastened into. Anchors are not provided by NABCO. Please see Figure 4-7 and Figure 4-8.

4.b.b: Anchor Placement for Pocketed Jamb

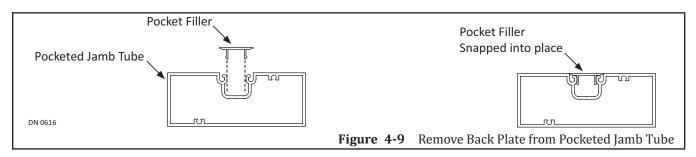
Use 1/4 inch diameter anchors with a minimum of 3 per Jamb tube, maximum is 48 inches on center. Drill 1/4 inch diameter holes in the pocket of Jamb. Anchors must be appropriate for the type of structure being fastened into. Anchors are not provided by NABCO. Please see Figure 4-7 and Figure 4-8.



- 4. Secure Frame to rough opening with anchors. Please see Figure 4-8.
 - a. Ensure each visible anchor is flush to the Jamb tube.
 - b. Do not overtighten anchors to prevent deforming Jamb tubes.
 - c. Ensure anchor heads do not come in contact with edges of glass to prevent breakage.



- 5. Snap Pocket Fillers in place. Please see Figure 4-9.
 - a. Pocket Fillers are used to fill in any/all exposed gaps.
 - b. Pocket Fillers (P/N 14-9875) are either shipped with Unit or purchased separately in lengths of 21' 6".



6. Secure Header cover with the (2) screws that were saved for reinstallation.

CHAPTER 5: INSTALL FRAME (WITH TRANSOM)

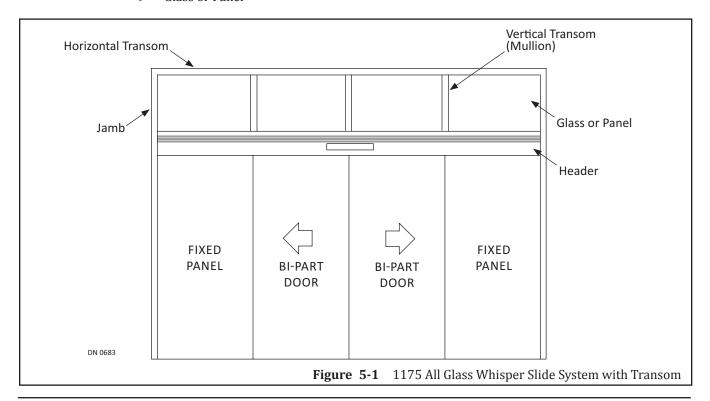
Note: Tie Rods are used for Transom Units that are 11 feet (132 inches) to 12 feet (144 inches) tall.

Note: For units that are taller than 12 feet (144 inches), please call Technical Support at 1-866-622-8325, only if instructions were not provided.

The Transom is an area above the Header which can be comprised of glass, aluminum panels, etc. It is installed on top of the Header when glass windows (or panels) are placed above the GT-1175 All Glass Whisper Slide System. Please see Figure 5-1.

The Transom consists of five major parts:

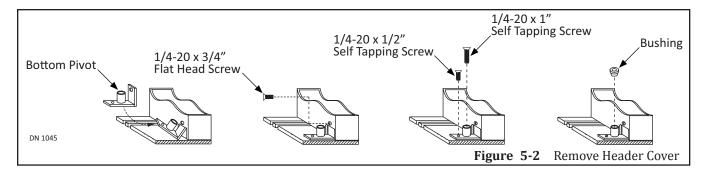
- ▶ Transom Horizontal
 - Secured between Jamb tubes, then to building structure at top of rough opening.
- ► Transom Vertical (also known as a Mullion)
 - Used to divide portions of the Transom where glass is inserted into, and to also secure the Transom Horizontal to Header.
- ► Transom Clip
 - Installed 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.
- ► Glass or Panel



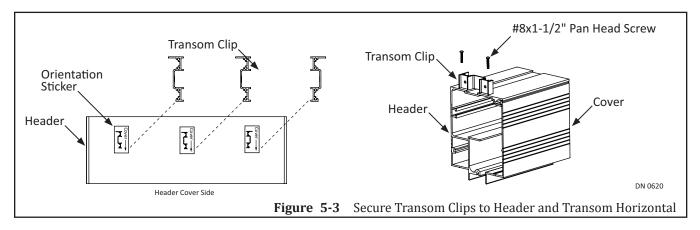
Install Frame (With Transom) 5-15

Section 5a: Install Transom Clips

- 1. Place the Header on a flat surface with the removable cover facing up.
 - a. Protect header from scratches.
- 2. Remove two screws from underneath cover.
 - a. Save screws for reinstallation.
- 3. Remove the Cover by lifting it up from Header, and then pulling it out. Please see Figure 5-2.



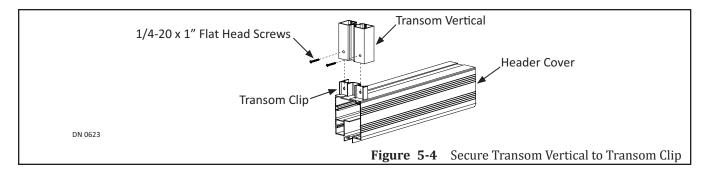
- 4. Remove Parts box and/or Parts bags from inside Header. Set aside.
- 5. Obtain all sets of Transom Vertical clips that were shipped with Unit.
- 6. Locate pre-drilled holes on Header. Secure Transom clips to Header with #8 x 1-3/4 inch screws that were provided by NABCO. Please see Figure 5-3.
 - a. Please refer to the instruction sticker located on the Header for proper location
 - b. Be sure to orientate all Transom Clips in relation to the Header cover.



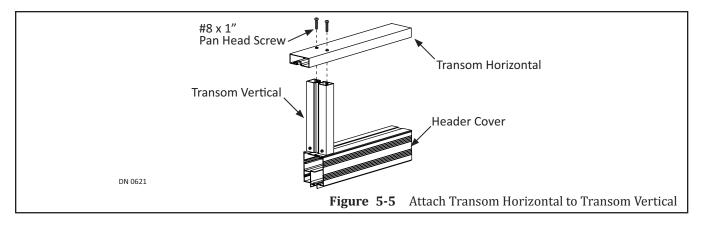
Section 5b: Install Transom to Header

- 1. Slide Transom Verticals onto Transom clips located on Header. Please see Figure 5-4.
- 2. Secure Transom Verticals to each Transom clip with 1/4-20 x 1" Flat Head screws (Colored) that were provided by NABCO. Please see Figure 5-4.

5-16 Install Frame (With Transom)

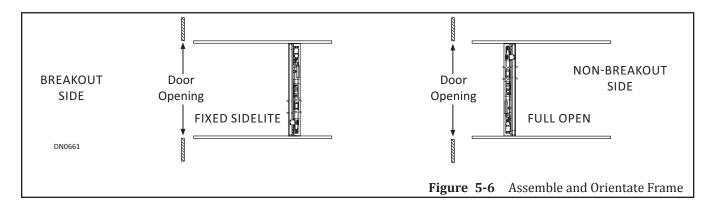


3. Secure the Transom Horizontal to Transom Verticals with #8 x 1 inch Pan Head screws that were provided by NABCO. Please see Figure 5-5.



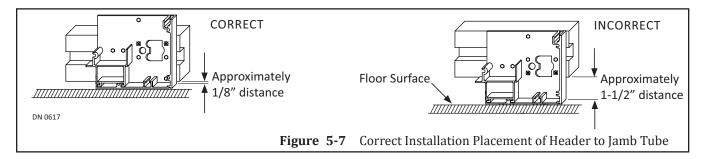
Section 5c: Install Jamb Tubes to Header and Transom

- 1. Position Jamb tubes on either side of Header. Please see Figure 5-6.
 - a. Please refer to the instruction sticker located on each Jamb tube, for proper location and orientation.
- 2. Orientate the Frame in relation to the building:
 - Fixed Sidelite
 - Frame must be positioned to face the **Exterior**.
 - ► Full Open
 - Frame must be positioned to face the **Interior**.

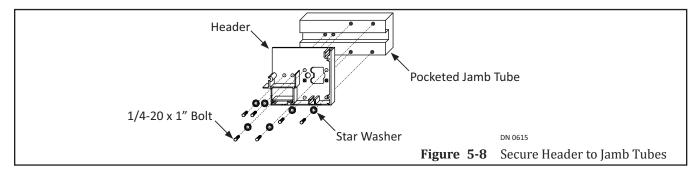


Install Frame (With Transom) 5-17

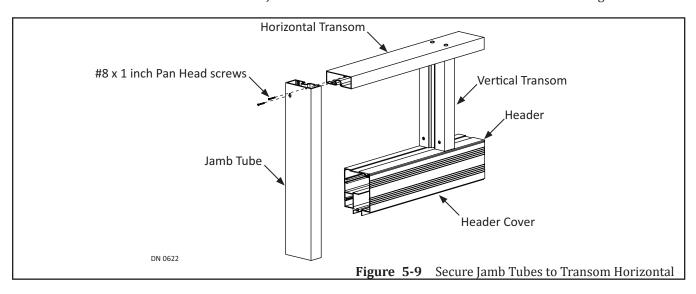
- 3. Remove 1/4-20 x 1 inch bolts and star washers that were pre-screwed inside Jamb tubes.
 - Save rivnuts for reinstallation.
- 4. Ensure each Jamb tube is on the correct side of the Header. Please see Figure 5-7.
 - a. If assembled correctly, from the floor, each Jamb tube will approximately be located 1/8 inch from the bottom of Header.



5. Secure Header to each Jamb Tube with $1/4-20 \times 1$ inch bolts and star washers that were saved by inserting them through access holes and into pre-installed rivnuts. Please see Figure 5-8.



6. Secure Transom to each Jamb Tube with #8 x 1 inch Pan Head screws. Please see Figure 5-9.

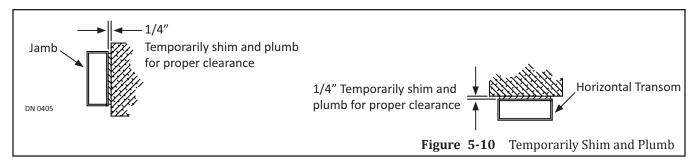


FOR ALL TRANSOMS - WITHOUT - TIE RODS SKIP TO SECTION 5F ON PAGE 5-21

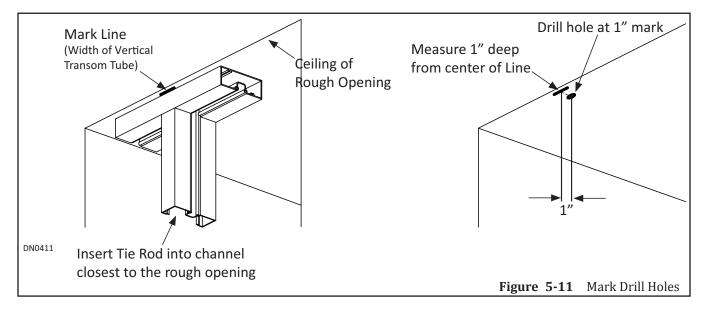
5-18 Install Frame (With Transom)

Section 5d: Prepare Transom Frame for Tie Rods

- 1. Lift to 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 clearance. Please see Figure 5-10.
 - a. To ensure proper fit, temporarily shim back of jamb as required.
- 3. Plumb top of Frame to ensure the rough opening allows a 1/4 inch clearance.
 - a. To ensure proper fit, temporarily shim top of the Frame as required.



- 4. Go to the top of each Transom Vertical to mark their exact location by drawing a horizontal line onto the ceiling of the rough opening. Please see Figure 5-11.
 - a. Do not draw line wider than the Transom Vertical.
 - b. It is recommended to use a level for this step.
- 5. Carefully take the frame out of the rough opening. Set aside.
- 6. Go back to the horizontal lines. From the center of each line, measure 1 inch deep, to mark where the 3/8-16 Concrete Anchor holes need to be drilled.
 - a. It is recommended to use a level for this step.



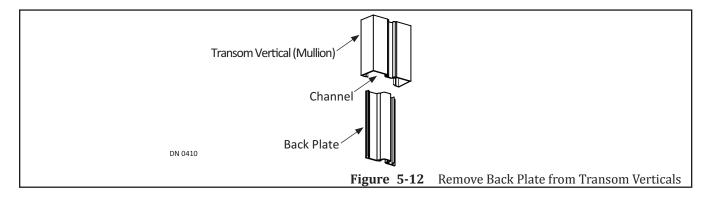
Install Frame (With Transom)

Section 5e: Insert Tie Rods into Transom Verticals (Mullions)

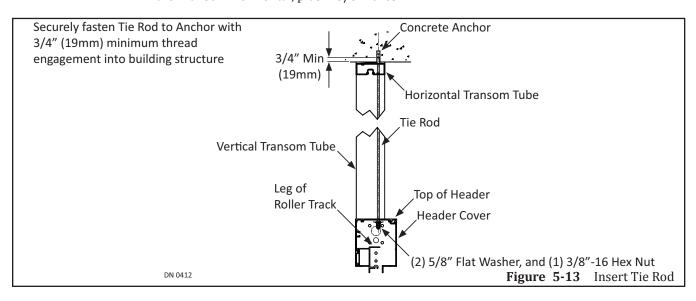
Note:

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

1. A Back Plate (P/N 24-9872) that can snap in/out of each Transom Vertical for easy access to the Tie Rod must be removed at this time. Please see Figure 5-12.

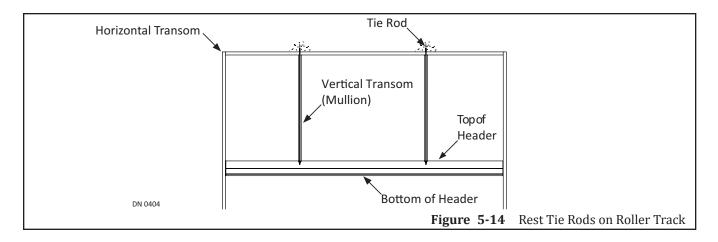


- 1. Remove Tie Rods and hardware from each Parts box provided by NABCO. Set aside.
 - a. There is (1) Tie Rod Parts box per Transom Vertical.
- 2. Go to the top of the Transom Horizontal. Locate pre-drilled 1 inch holes. Insert (1) Tie Rod down each channel that is closest to the Jamb tube. Please see Figure 5-13 and Figure 5-14.
- 3. Continue to route each Tie Rod through pre-drilled holes located at top of Header.
- 4. Once Tie Rod is through 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 5-13 and Figure 5-14.
 - 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.



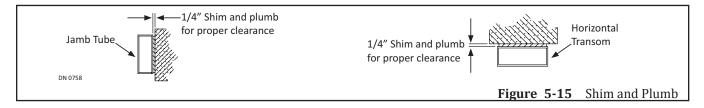
- 5. Allow each Tie Rod to rest on each Leg of the Roller Track within the Header.
 - a. The Tie Rod must remain inside the Transom Vertical until the Frame is fully secured into the Rough Opening.

5-20 Install Frame (With Transom)



Section 5f: Secure Transom Frame to Building

- 1. Lift to position the assembled Frame into the rough opening. Turn Full Open Frame around if deemed necessary.
- 2. Plumb Jamb tubes in both planes to ensure the rough opening allows a 1/4 inch clearance. Please see Figure 5-15.
 - a. Shim back of Jamb as required.
- 3. Plumb the Header or the Transom Horizontal at the top to ensure the rough opening allows a 1/4 inch clearance.
 - a. Shim top of Transom Horizontal as required.



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

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

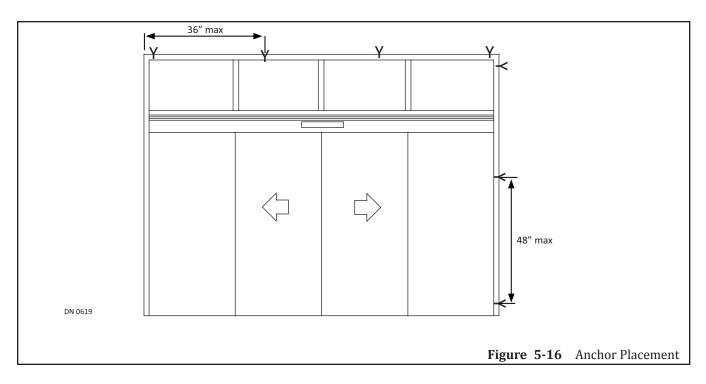
5.f.a: Anchor Placement for Pocketed Jamb

Use 1/4 inch diameter anchors with a minimum of 4 per Jamb tube, maximum is 36 inches on center. Drill 1/4 inch diameter holes in the face of Jamb and then countersink each hole. Anchors must be appropriate for the type of structure being fastened into. Anchors are not provided by NABCO. Please see Figure 5-16 and Figure 5-17.

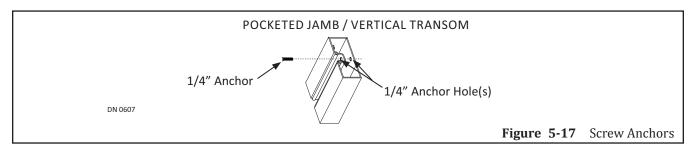
5.f.b: Anchor Placement for the Transom Horizontal

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 Jamb and then countersink each hole. Anchors must be appropriate for the type of structure being fastened into. Anchors are not provided by NABCO. Please see Figure 5-16 and Figure 5-17.

Note:



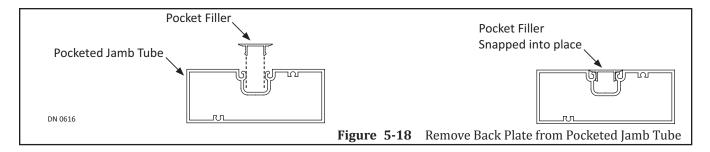
- 4. Secure Frame to rough opening with anchors. Please see Figure 5-17.
 - a. Do not overtighten anchors to prevent deforming Jamb tubes.



Section 5g: Complete Tie Rod Installation

- 1. After the Frame has been installed, slide each Tie Rod up the Transom Vertical channel into each 3/8-16 Anchor.
 - a. The 3/8-16 Anchor is used to securely fasten the Frame.
- 2. Go back to the Header to securely tighten the Backing Plate, 3/8 inch Washer, 3/8 inch Lock Washer and 3/8-16 Hex Nut to the bottom of the Tie Rod.
- 3. Reassemble each Transom Vertical by snapping the Back Plate back into place.
 - 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.
- 4. Fill in any/all exposed gaps found on Jamb Tubes with Pocket Fillers that snap in place. Please see Figure 5-18.
 - a. Pocket Fillers (P/N 14-9875) are either shipped with Unit or purchased separately in lengths of 21' 6".
 - b. Pocket Fillers are cut as required by the installer.

5-22 Install Frame (With Transom)

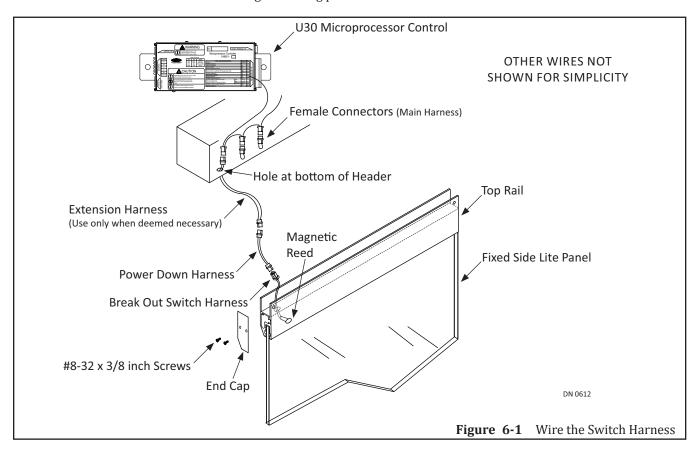


5. Secure Header cover with the (2) screws that were saved for reinstallation.

CHAPTER 6: INSTALL THE SIDELITE PANEL

Section 6a: Wire the Break Out Switch Harness

- 1. With a Phillips Screwdriver, remove End Cap from Top Rail of Sidelite Panel. Please see Figure 6-1.
 - a. Save End Cap and hardware for reinstallation.
- 2. Temporarily position the Sidelite Panel approximately where it is to be permanently installed so it will not fall over during the wiring process.



- 3. Obtain the (Fixed Side Lite) Power Down Harness assembly that was provided within a Parts bag (P/N 229367); plus any/all (Breakout Switch) Extension Harnesses that were provided within Header (P/N 22-9220).
 - a. Extension Harnesses are only used when deemed necessary and will either be 36 inches long or 96 inches long.
- 4. Remove Power Down Harness and (1) loose female connector from Parts bag.
- 5. One end of the Power Down Harness consists of (2) loose yellow wires. Obtain the loose female connector that was set aside. Insert each yellow wire into Pin (1) and Pin (2).
- 6. Go to the top rail of the Sidelite Panel. Locate the Break Out Switch Harness. Pull out the male connector end.

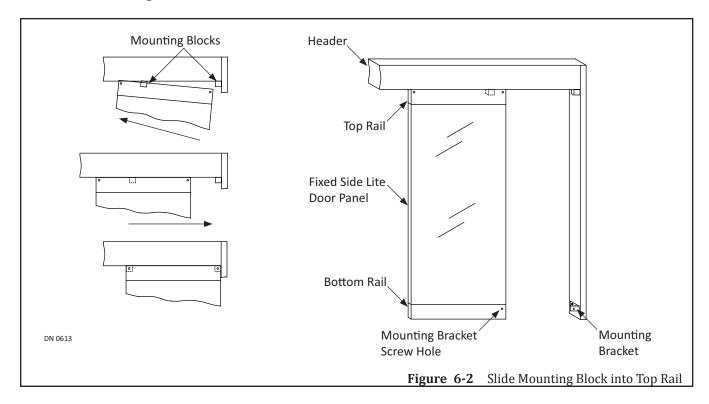
6-24 Install the Sidelite Panel

- 7. Connect the Switch Harness to the Power Down Harness.
- 8. Go to Header and remove cover. Go to the Main Harness that is connected to the U30 Microprocessor Control.
- 9. Choose (1) out of (3) Female connectors attached to Main Harness with Blue wiring.
- 10. Route the Power Down Harness through hole located at bottom of Header.
- 11. Connect the Power Down Harness to the Female connector attached to the Main Harness.
 - a. If an Extension Harness is being used connect it to the Main Harness instead and then to the Power Down Harness.
- 12. Stuff excess Harness wiring into the Header or hide it into the Top Rail of Panel.

Section 6b: Secure Sidelite Panel to Frame

Note: It is recommended to use more than (1) installer to lift and move Glass Panels during installation.

1. Go to bottom of Header. Locate (2) NABCO Factory installed Mounting Blocks. Please see Figure 6-2.

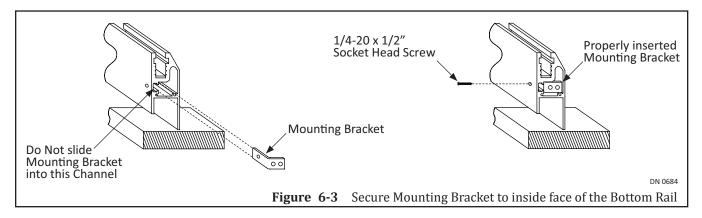


- 2. Slide the Sidelite Panel onto the Mounting Block (closest to door opening). Continue to slide Sidelite Panel farther into the center of door opening. Please see Figure 6-2.
 - a. Ensure no wires are pinched.
- 3. Align to the Mounting Block that is butted up against the Jamb Tube.

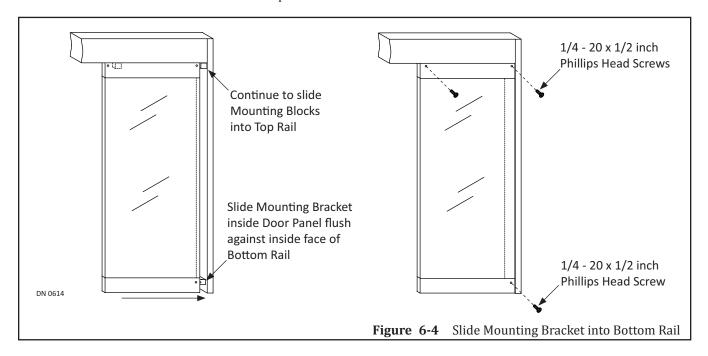
Install the Sidelite Panel 6-25

4. At the same time align the Bottom Rail to the Mounting Bracket that was installed onto the Jamb Tube. Please see Figure 6-3.

a. The Mounting Bracket must be flush against the inside face of the Bottom Rail. Do Not slide Mounting Bracket inside the Channel.

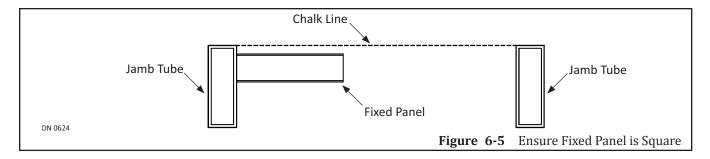


- 5. Slide the Sidelite Panel onto both the Mounting Block and Mounting Bracket. Please see Figure 6-4.
 - a. Ensure no wires are pinched.



- 6. Secure the Mounting Block to the Bottom Rail with (1) $1/4-20 \times 1/2$ inch Socket Head screw.
- 7. Snap a chalk line between Jamb tubes in front of Sidelite Panel. Please see Figure 6-5.
 - a. If the Sidelite Panel runs parallel to the chalk line it is square.
 - b. If the Sidelite Panel is not parallel to the chalk line make necessary adjustments until it is.

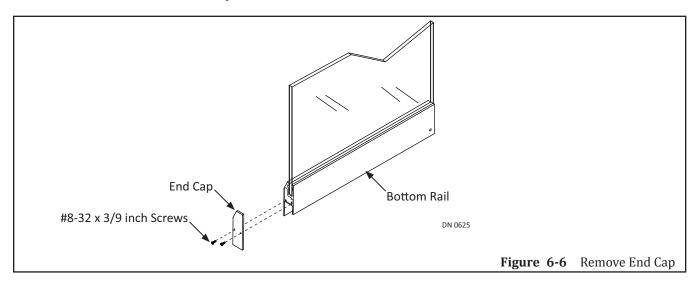
6-26 Install the Sidelite Panel



- 8. Mark and drill (1) screw hole into each Mounting Block with a 1/4" Drill Bit.
- 9. Secure the Sidelite Panel onto (2) Mounting Blocks with a Phillips screw driver.
- 10. Reinstall the End Cap onto Top Rail of Sidelite Panel using (2) #8 32 x 3/8 inch screws that were saved. Please see Figure 6-1.

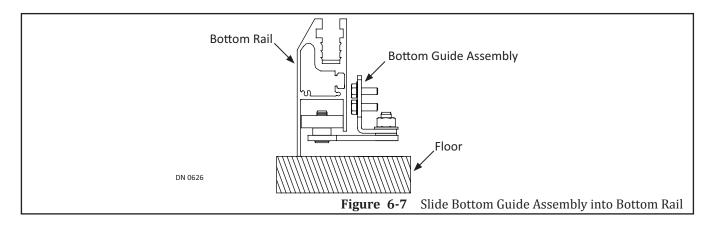
Section 6c: Install Bottom Guide Assembly and Floor Bracket

- 1. With a Phillips Screwdriver, remove End Cap from Bottom Rail of Sidelite Panel. Please see Figure 6-6.
 - a. Save End Cap and hardware for reinstallation.

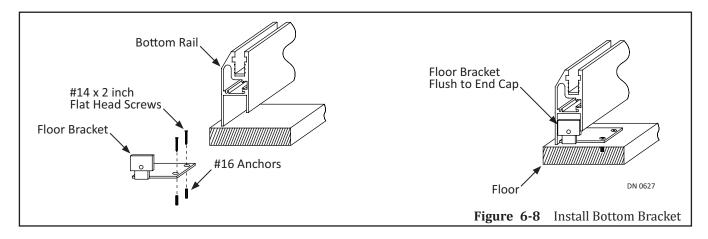


- 2. Obtain the Bottom Guide Assembly that was provided within the Parts Box.
 - a. For Bi-Part Slide doors a Left Hand and a Right Hand Bottom Guide will be provided. Be sure to select the Bottom Guide that corresponds to the right side or the left side of door.
- 3. Install Bottom Guide Assembly by sliding the rollers into Bottom rail so the bracket sticks out from underneath in direction of where the Slide door is to be installed. Please see Figure 6-7.
 - a. Push rollers back into Bottom Rail so the Floor Bracket can be installed.
 - b. Do not install Slide Door onto Bottom Guide Assembly at this time.

Install the Sidelite Panel 6-27



- 4. Obtain the Bottom Bracket, (2) #14 x 2 inch screws, and (2) #16 plastic anchors that were provided within the Parts Box.
- 5. Insert the Bottom 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 6-8.
- 6. Ensure the Fixed Panel is still parallel to the chalk line so it remains square.
 - a. If the Fixed Panel is not parallel to the chalk line make necessary adjustments until it is.
- 7. Continue to insert the Bottom Bracket until it is flush to the end of Bottom Rail.



- 8. Use the Bottom Bracket as a template to mark (2) screw holes onto floor while holding the Fixed Panel parallel to the chalk line.
- 9. With a 5/16 inch Masonry Drill Bit drill (2) anchor holes into floor at least 2 inches deep.
- 10. Insert anchors into drilled holes.
- 11. Secure Floor Bracket to floor with (2) #14 x 2 inch Flat Head screws.
- 12. Reinstall the End Cap onto Bottom Rail of Sidelite Panel using (2) #8 32 x 3/8 inch screws that were saved. Please see Figure 6-6.

6-28 Install the Sidelite Panel

CHAPTER 7: INSTALL THE SLIDING DOOR

WARNING

To prevent damage to Side Lite Panel, cover glass with cardboard during the installation process.

CAUTION

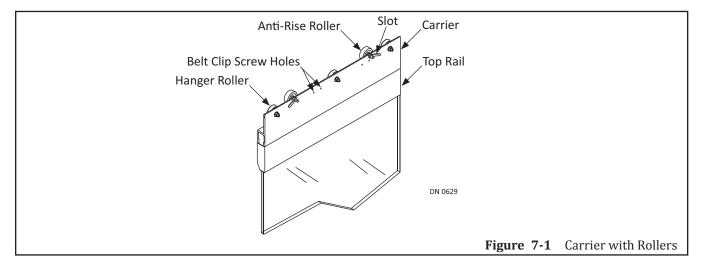
Do not test Breakout until all adjustments are made and doors are secured.

Section 7a: Lift Carrier onto Track

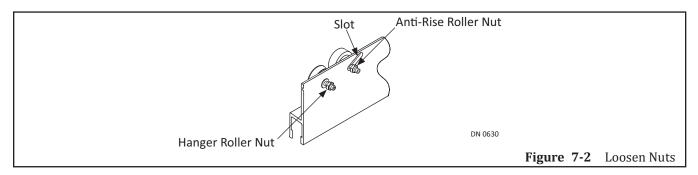
Note: It is recommended to use more than (1) installer to lift and move Glass doors during installation.

The Carrier assembly consists of (3) Hanger Rollers and (2) Anti-Rise Rollers and is pre-installed on the Top Rail. It is used to hang the Door Panel onto the Track located inside the Header. Please see Figure 7-1.

Note: If Door Panel is not purchased from NABCO with glass pre-installed, the Carrier is shipped separately.



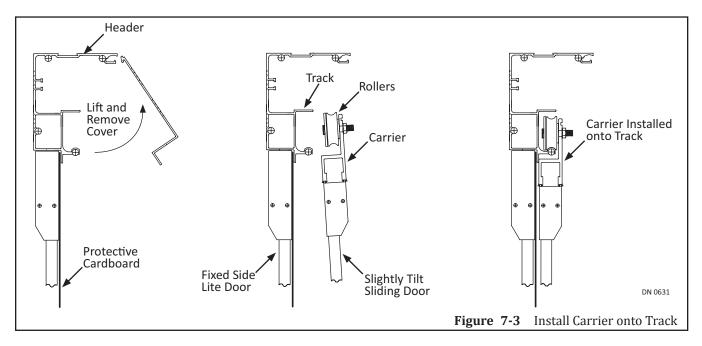
- 1. Go to Carrier located on Top Rail. Loosen nut on Hanger Rollers with a 15/16" open end Wrench. Please see Figure 7-2
- 2. Loosen nut on Anti-Rise Rollers with a 15/16" open end Wrench.
 - a. Anti-Rise Rollers will slide down the slot.



Install the Sliding Door 7-29

3. Lift and then slightly tilt the Door Panel into the Header and then onto the Track so Belt Clips are between the Rollers according to the pre-drilled screw holes located on Carrier. Please see Figure 7-1 and Figure 7-3 and Figure 7-6.

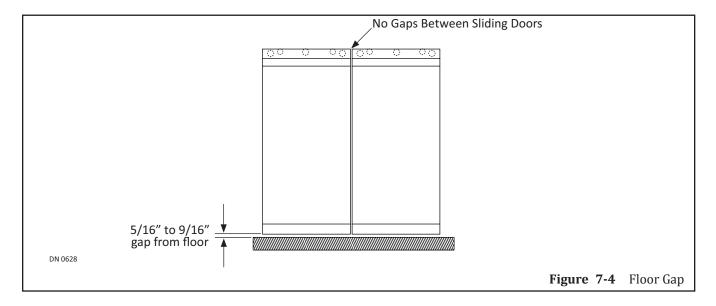
a. Door Panel is tilted to make it easier for rollers to 'catch' onto the track.



Section 7b: Adjust Door Panel Height

The appropriate gap between the Bottom Rail and the floor can vary between 3/16 inch to 7/16 inch, with the optimal gap being 5/16 inch. Hanger Rollers are used to:

- ► Adjust the height of the Door Panel.
- ► Ensure leading edge of Bi-Part Door Panels; at the top or bottom are parallel.
- ► Ensure leading edge of door and the Jamb tube; at the top or bottom are parallel.



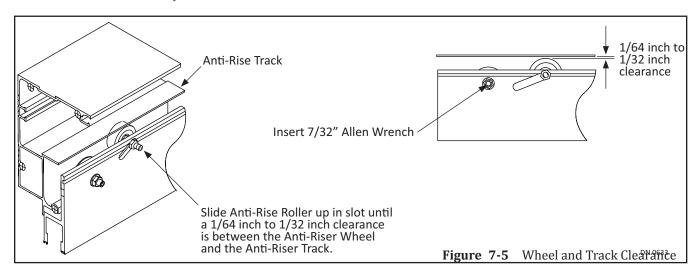
7-30 Install the Sliding Door

- 1. Obtain one 15/16" Open End wrench, and one 7/32" Allen wrench.
- 2. Go to the Carrier. Ensure Hanger Roller nut is still loose.
 - a. If Hanger Roller nut is tight, loosen it with a 15/16" Open End Wrench.
- 3. Keep Hanger Roller nut from turning with a 15/16" Open End wrench. At same time insert 7/32" Allen wrench into end of Hanger Roller. Please see Figure 7-5.
- 4. Turn Axle clockwise to raise or lower the Door Panel.
- 5. Adjust the (2) Hanger Rollers located at each end of door first. Then adjust the Hanger Roller that is located in the center.
 - a. This will evenly distribute door weight on all (3) Hanger Rollers.

CAUTION

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

- 6. Repeat step for remaining (2) Hanger Rollers.
- 7. Check to ensure leading edge of door and (other door or Jamb tube) are parallel.
 - a. If gaps exist, make necessary adjustments to Hanger Rollers.
- 8. Insert 7/32" Allen wrench into end of Hanger Roller. Tighten nut with a 15/16" Open End wrench until the Hanger Roller is secured to the Carrier.
 - a. Do not overtighten the nut.
- 9. Repeat step for remaining (2) Hanger Rollers.
- 10. Slide anti-riser up into the slot until there is a 1/64 inch to 1/32 inch gap between the Anti-Rise Wheel and the Anti-Rise Track. Please see Figure 7-5.
 - a. Gap should be about the same thickness of a credit card.



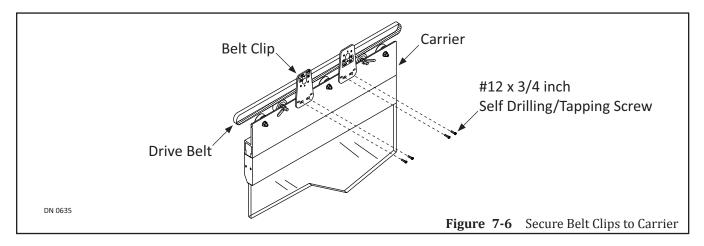
- 11. Tighten nut with a 15/16" Open End wrench until the Anti-Rise Roller is secured to the Carrier.
 - a. Do not overtighten the nut.
- 12. Repeat steps for remaining Anti-Rise Roller.

Install the Sliding Door 7-31

Section 7c: Secure Belt Clips to Carrier

Belt Clips are used to keep the Drive Belt separated for upper/lower rotation and to open/close the Door Panel. Belt Clips are pre-installed within the Header at the NABCO Factory. However, Belt Clips still need to be secured to the Carrier so the Door Panel can operate.

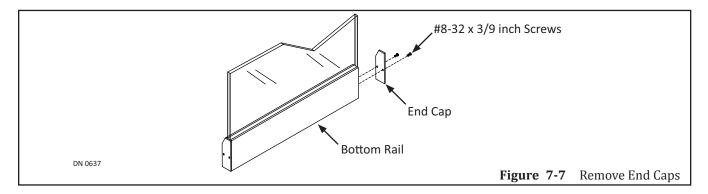
- 1. Line up Belt Clip screw holes located on Carrier to the Belt Clip pre-installed within Header.
- 2. Secure Belt Clip with (2) #12 x 3/4 inch self-drilling/self-tapping screws provided by NABCO.
- 3. Repeat step for remaining Belt Clip. Please see Figure 7-6.



Section 7d: Adjust the Nose Caster

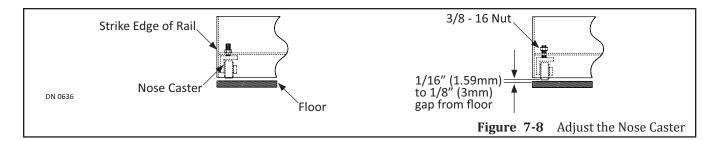
During Breakout the Nose Caster is used to keep the Door Panel from hitting or scraping the floor. A gap between the wheel and the floor must always be 1/16 - 1/8 inch.

- 1. Remove End Cap from Pivot side of Bottom Rail. Please see Figure 7-7.
 - a. Save End Cap and hardware for reinstallation.



2. Go to the Pivot side of Door Panel. Locate the Nose Caster that was pre-installed within the Bottom rail at the NABCO Factory. Please see Figure 7-8.

7-32 Install the Sliding Door

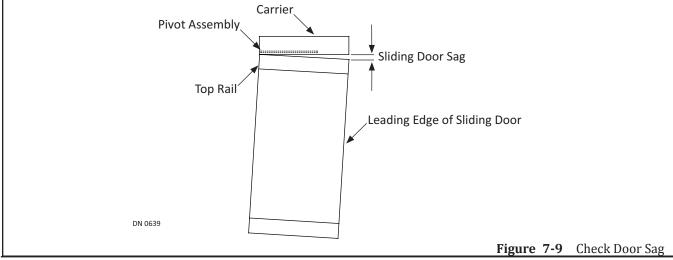


- 3. With an open end Wrench loosen the 3/8-16 Nut used to secure Nose Caster to Bottom Rail.
- 4. Rotate Nose Caster until it is between 1/16 to 1/8 inch from the floor.
- 5. Orient the Wheel perpendicular to the Bottom Rail.
- 6. With an open end Wrench tighten the 3/8-16 Nut until the Nose Caster is secured to the Bottom Rail.
 - a. Do not overtighten the nut.
- 7. Close Door Panel. Complete (1) Cycle to ensure Nose Caster does not hit or scrape the floor.
 - a. If Door Panel hits or scrapes the floor make necessary adjustments to Nose Caster.
- 8. Reinstall the End Cap onto Pivot side of Bottom Rail using (2) $\#8 32 \times 3/8$ inch screws.

Section 7e: Adjust Preload on Door Panel

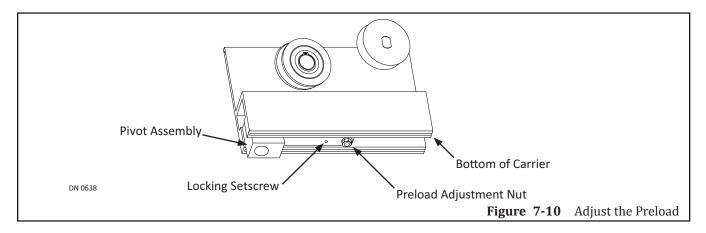
Note: Glass must be installed first before adjusting the Preload on Door Panel.

- 1. Support the weight of Door Panel.
- 2. Breakout door approximately 5 degrees.
 - a. Just enough to expose the Preload Adjustment Nut inside Carrier.
 - b. Door Panel must not come into contact with Fixed door.
- 3. Check for door sag. Please see Figure 7-9.



Install the Sliding Door 7-33

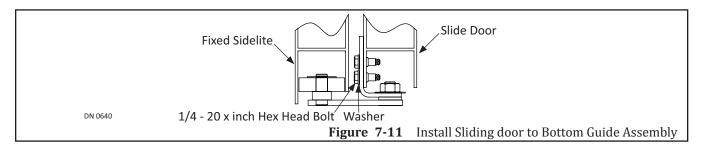
4. Go to the Preload Adjustment Nut. Please see Figure 7-10.



- 5. With a 9/16 Wrench, turn the Preload Adjustment Nut:
 - ▶ Clockwise to increase the height of the Leading Edge of the Door Panel.
 - Counterclockwise to decrease the height of the Leading Edge of the Door Panel.
- 6. Close the Door Panel. Ensure that it can be closed with slight or no downward pressure on the Leading Edge of door.
- 7. Secure the newly adjusted Preload by tightening the 1/4-20 UNC Setscrew inside the pre-drilled hole located to the left of the Preload Adjustment Nut.

Section 7f: Install Door Panel to the Bottom Guide Assembly

- 1. Go to Bottom Rail of Fixed door. Locate the Bottom Guide Assembly that was previously installed into the Fixed Panel. The bracket will be sticking out from underneath. Please see Figure 7-11.
 - a. Ensure that cardboard is still protecting the Fixed door. If not replace the cardboard.



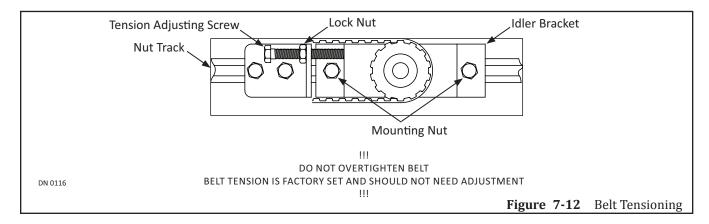
- 2. Slide the door onto the Bracket portion of the Bottom Guide Assembly.
- 3. Support the weight of the Door Panel.
- 4. Breakout door to Full Open position.
 - a. Door Panel must never come into contact with Fixed door.
- 5. Line up the Bracket screw holes to the (2) pre-drilled screw holes located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

7-34 Install the Sliding Door

Section 7g: Adjust the Belt Tension

Note: The belt tension is factory set and should not require any adjustment except for unusual circumstances in header mounting or component adjustment.

1. Go to the Idler Bracket and loosen the mounting nuts. Please see Figure 7-12.



- 2. Go to the tension adjustment screw and loosen the lock nut.
- 3. Tighten or loosen the belt by turning the tension adjustment screw clockwise and/or counterclockwise.
 - a. The tension adjustment screw will proceed to move the Idler Bracket.
 - b. In the event that the Idler Bracket does not move, loosen the Idler Bracket mounting bolts a little bit more.
- 4. Proceed to tension the belt.
 - a. The tension belt should not need to be adjusted, but if it does, tension the belt to the approximate setting as it was when first shipped from the factory.

Note: Do Not tension the belt so taut that it bends the drive or idler shafts.

Note: Do Not overtighten belt.

- 5. Go to the tension adjustment screw and tighten the lock nut.
- 6. Go to the Idler Bracket and tighten the mounting bolts.

Section 7h: Belt Alignment

The alignment of the belt is factory set. The flanges on the pulleys:

- ► Compensate for minor misalignments.
- Keep the belt on the pulleys.

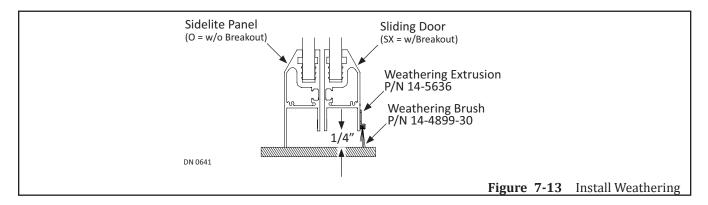
If the belt comes off the pulleys, check the alignment of the Idler Shaft.

Section 7i: Install Weathering

- 1. Slide Weathering Brush inside the Weathering Extrusion.
 - a. Excess Brush is allowed to hang out of the Extrusion only at the rear end of the Door.

Install the Sliding Door 7-35

- 2. Go to Bottom Rail on the outside of the Door Panel.
- 3. Place the Weathering Assembly on the Door Panel.
- 4. Mark (3) slots of the Weathering Extrusion on the Door Panel. Please see Figure 7-13.
- 5. Drill a 1/8 inch diameter hole at each mark.
- 6. Secure the Weathering Assembly to the Door Panel with (3) color coordinated #6 x 1/2 inch self tapping screws provided by NABCO.



Section 7j: Vertical Weathering

Vertical Weathering is installed at the NABCO Factory located on sides of doors and panels and comes with several color and brush options.

Table 7-1 Vertical Weathering Options

	Location		Color		Part Number
9/16" — 11/16" —	A	Opaque w/ brush Opaque Plastic Brush	Color Black	Size 1-1/4"	11-5945-60 11-5945-10 14-4899-50
5/16" 1/2"	В	Brass w/brush Silver w/brush Brass Plated Silver Plated Brush	Color Gray Brown Black	Size 1/4" 1/4" 3/8"	11-5945-80 11-5945-90 11-5945-30 11-5945-40 14-8326-01 14-8326-02 14-8326-03

7-36 Install the Sliding Door

	Location		Color		Part Number	
3/8" 5/8"	В	Clear w/brush Clear Plastic Brush	Color Gray Brown Black	Size 1/4" 1/4" 3/8"	11-5945-00 11-5945-50 14-8326-01 14-8326-02 14-8326-03	
2" Glass Edge to Glass Edge without Weathering A B A B A						

Install the Sliding Door 7-37

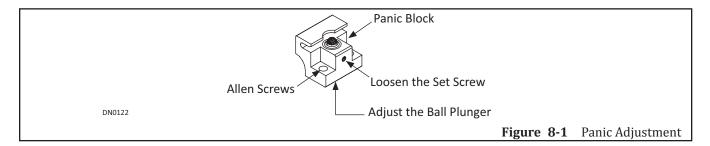
CHAPTER 8: BREAKOUT ADJUSTMENTS

Note: Do not test the Panic Adjustment until the Door Panel preload adjustments have been done.

Forcing the Door Panel to breakout is not acceptable. The amount of force required to breakout the Door Panel must not exceed that specified in ANSI 156.10. If the Door Panel becomes difficult to breakout it must be adjusted.

Section 8a: Adjust the Ball Plunger

- 1. Breakout the Door Panel.
- 2. Go to the Top Rail. Locate the Panic Block.
- 3. Remove (2) Allen screws that are holding the Panic Block in place. Please see Figure 8-1.
 - a. Save for reinstallation.
- 4. Remove the Panic Block.



- 5. Loosen the Set screw that is located in front of the Panic Block.
- 6. Raise or lower the ball plunger by adjusting the slotted screw located underneath the Panic Block.

CAUTION

The Ball plunger must be adjusted for proper breakout resistance to meet ANSI A156.10 code or local code.

- 7. Tighten the Set screw.
- 8. Reinstall the Panic Block with (2) Allen screws that were saved for reinstallation.
- 9. Repeat if necessary.

Section 8b: Breakout Magnet

The Breakout magnet was pre-installed inside the Top Rail at the NABCO Factory inline with the Magnetic Reed Switch. Placing a steel washer inside the Top Rail can verify that the Breakout magnet was installed. No Adjustments are necessary.

8-38 Breakout Adjustments

CHAPTER 9: SENSORS

The GT-1175 All Glass Whisper Sliding Door Systems come with (2) identical Acusensors (unless specified otherwise):

- **▶** Interior
- Exterior

The Header is factory wired so that the activation circuitry on the Exterior Acusensor is turned off in One Way Traffic mode. Please refer to "Model GT-1175 Electrical Installation Manual **with U30 Microprocessor Controller** P/N 15-10596-30; for wiring details.

Note: The Safety Circuit remains active and con not be turned off.

The Exterior Acusensor is located on the same side the Door Panel can breakout. One way mode can be reversed in the field by swapping connectors where each Acusensor plugs into the main harness.

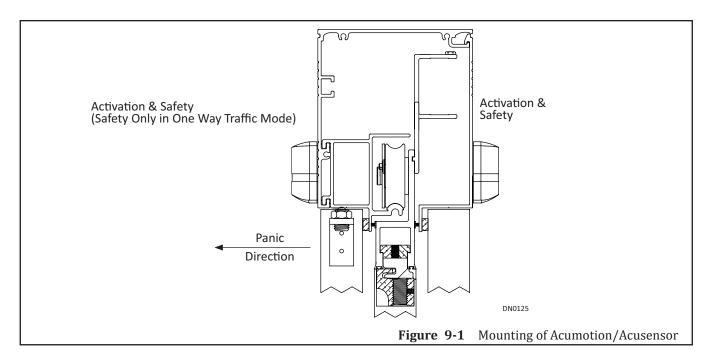
The width of a clear door opening dictates the type of sensor and how many sensors will need to be used. For units that have a clear opening between:

- ▶ 72 92 inches
 - (2) Optex i-One Sensors are used in place of (2) Acusensors
- ▶ 92 -187 inches
 - (4) Acusensors are used

Section 9a: Mount the Sensors

- 1. Obtain (2) Sensors and (1) drilling template provided by NABCO.
 - a. If the Header is 'factory prepped', the drilling template can be discarded.
- 2. If not already, remove the Access cover from the Header.
 - a. Save screws for reinstallation.
- 3. Carefully pry off the cover from (1) sensor to be mounted on the Exterior side of Header.
- 4. Route the Sensor Extension harness from the U30 Microprocessor Control through the access hole located on the Exterior side of Header.
- 5. Plug the routed Sensor Extension harness to the Sensor Harness.
- 6. Remove screws from the screws holes located on the Sensor.
 - a. Save screws for reinstallation.
- 7. Mount and then secure the Sensor to the Header with the screws that were saved. Please see Figure 9-1.
- 8. Reinstall the Sensor Cover.

Sensors 9-39



- 9. Carefully pry off the cover from (1) sensor to be mounted on the Interior side of Header.
- 10. Snap the cover back into place on the Header.
- 11. Route the Sensor Extension harness from the U30 Microprocessor Control through the access hole located on the Header Cover.
- 12. Plug the routed Sensor Extension harness to the Sensor Harness.
- 13. Remove screws from the screws holes located on the Sensor.
 - Save screws for reinstallation.
- 14. Mount and then secure the Sensor to the Header with the screws that were saved. Please see Figure 9-1.
 - a. If the Header cover does close all the way, the Sensor has been mounted too tightly. Slightly loosen the mounting screws and try closing the Header Cover again.
 - b. If the Header cover is not properly secured onto the Header it may loosen and fall off.
- 15. Reinstall the Sensor Cover.
- 16. Secure the Access Cover to the Header with (2) screws that were saved.

Section 9b: Holding Beams

Holding Beams are pre-installed at the NABCO Factory and consist of (1) emitter and (1) detector. Holding Beams are flush mounted to Jamb tubes, facing each other with a pulsed, infrared light beam that continuously transmits across the door opening. Holding Beams causes the Door Panel to open and stay open when an object is detected. During Breakout Holding Beams shut down. Please refer to "Model GT-1175 Electrical Installation Manual **with U30 Microprocessor Controller** P/N 15-10596-30; for wiring details.

9-40 Sensors