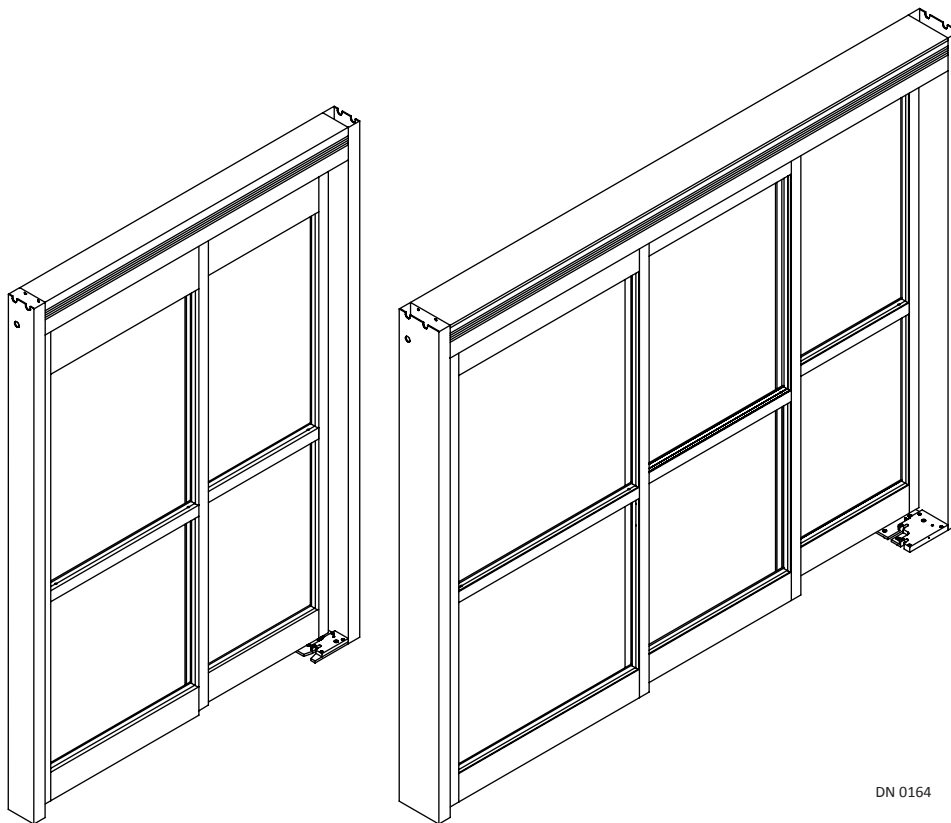




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Model GT 2100 ICU Manual Slide Door Installation Full Open Trackless



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

CAUTION

Handle Glass With Care!!! Use caution when moving and installing the glass panels. These panels are designed to be assembled with tempered glass. Any sharp objects that come in contact with glass may cause the glass to shatter. NABCO Entrances is not responsible for glass that is broken during the installation of this Unit.

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.

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

Notice: Advise the purchasing facility or end user to make regular safety checks and all other duties that may apply.

- ▶ 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.
- ▶ 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.
- ▶ Do Not take shortcuts.
- ▶ Ensure that all safety devices provided by the manufacturer work as intended.
- ▶ Ensure that all safety decals are properly displayed on any/all swing doors.

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.

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.

Note: As an Option, the GT-2100 Manual Slide door can be certified to have a Smoke and Air Infiltration NFPA-105 rating for sprinklered buildings (in the United States only).

Section 1b: Objective

The GT-2100 is designed to be installed within a rough opening of a building. The door function is opened and closed manually with a full breakout feature.

This manual offers step by step instructions.

CHAPTER 2: GETTING STARTED

Manufactured out of:

- ▶ Aluminum

Installed within:

- ▶ Opening of Building

Mechanical Configurations:

- ▶ Manual 2 Panel: (1) Slide Door that slides to the right or left with (1) Sidelite Panel.
- ▶ Self Closing 2 Panel: (1) Slide Door that slides to the right or left with (1) Sidelite Panel and automatically closes.
- ▶ Telescopic: (1) Lead Slide Door and (1) Trail Slide Door that slides to the right or left with (1) Sidelite Panel.

Extrusion Configurations:

- ▶ Slick Jamb Tubes

Emergency Egress:

- ▶ Both the Slide door and Swing Sidelite breakout for emergency egress.

Section 2a: Requirements

Power Requirements for (Hold Open):

- ▶ 24VDC, 250mA minimum, UL Listed class 2 power supply.
- ▶ May use: Power Supply 24 VDC, 0.5A; NABCO P/N 14-14299.

Maximum Weight Limit:

- ▶ Standard ICU Slide doors; 250 pounds
- ▶ Self Closing ICU Slide doors; 135 pounds

Section 2b: Required Tools

List of Materials	
▶ Tape Measure	▶ Phillips Head Screw Drivers: #2 and #3
▶ Chalk Line	▶ Drill Bits: 1/8", 7/32", 1/4" and 3/8"
▶ Level	▶ Masonry Drill Bits: 5/16" and 3/8"
▶ Broom	▶ Wrench: 3/8", 7/16", 1/2" and 9/16" Box or Open End
▶ Hand Drill: Electric or Cordless	▶ Allen Wrench: 1/8", 5/32" and 1/4"
▶ 6" Socket Extension	▶ 3/8" Drive Socket Wrench
▶ Socket: 3/8" and 9/16"	

Section 2c: Associated Manuals Part Numbers

- ▶ Suggested Architectural Specifications Section 8; 2100 Manual Sider Trackless

Section 2d: Service Part Pages

- ▶ 2100 ICU Full Open Trackless Quick Setup Parts Guide P/N 15-12499-006

CHAPTER 3: INSTALL FRAME

Section 3a: Prepare Header and Jamb Tubes

1. Place the Header on a flat surface with the removable cover facing up.
 - a. Protect Header from scratches.
2. Position Jamb tubes on either side of the Header according to the instruction sticker located on each Jamb tube that shows proper location and orientation. Please see Figure 3-1.
3. Position Header so the Cover is facing the Non-Breakout side of the opening.

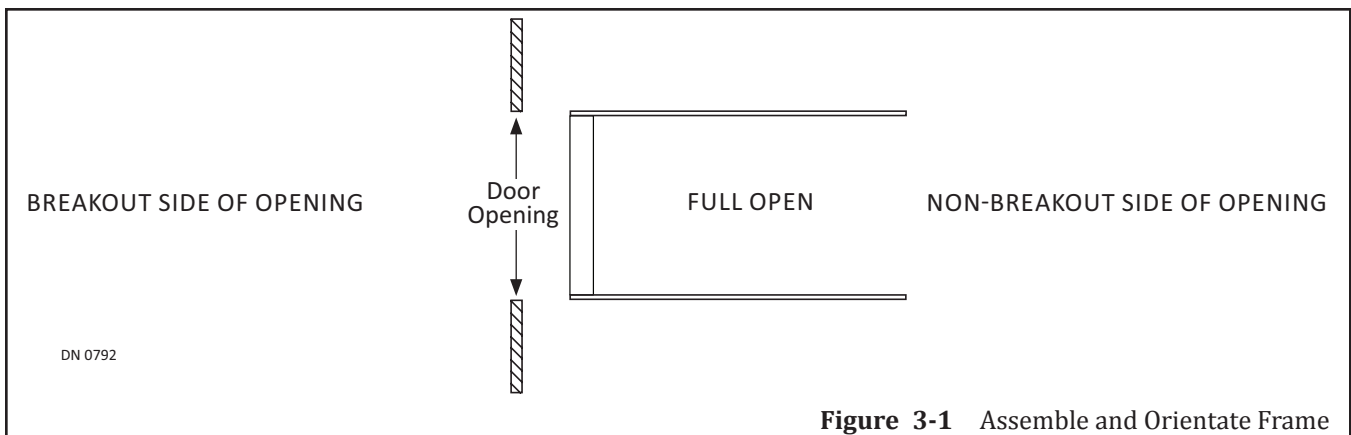


Figure 3-1 Assemble and Orientate Frame

4. Go to the bottom of Header, remove (2) #8-32 x 5/8" phillips head screws used to secure the Cover to Header. Save screws for reinstallation.
5. Remove the Cover by lifting it up and then pulling it out. Please see Figure 3-2.

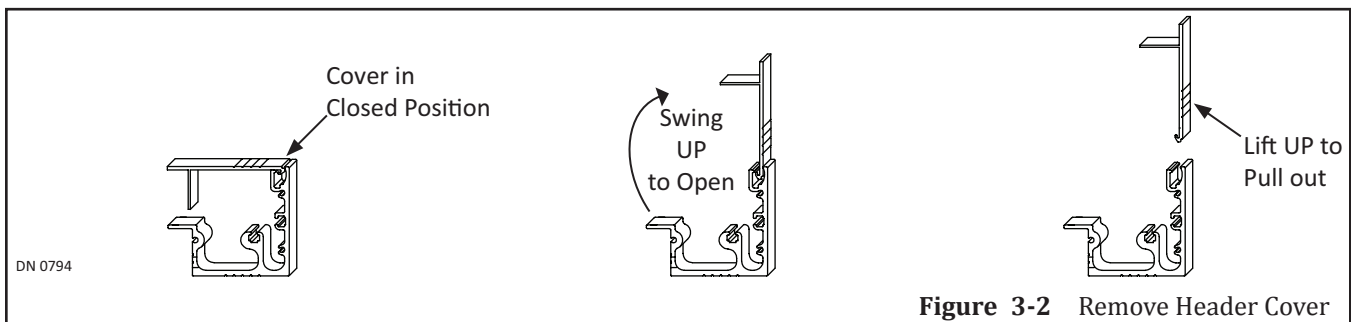


Figure 3-2 Remove Header Cover

6. Remove Parts boxes and/or Parts bags from inside Header. Set aside.
7. Remove 1/4-20 x 3/4 inch Tapping screws that were pre-screwed inside screw bosses on each end of the Header. Save hardware for reinstallation.

Section 3b: Remove the Roller Track (Telescopic Unit)

FOR TWO PANEL UNITS SKIP TO SECTION 3C

The Telescopic Unit has (2) Roller Tracks: (1) for the Lead door and (1) for the Trail door. Before the Telescopic Header can be assembled the Roller Track for the Lead door must first be removed.

1. Go to the Roller Track for the Lead door. With a #2 Phillips Screwdriver, loosen (1) 1/4-20 x 1/2 inch Phillips Head screw used to secure each Rail Clamp. Please see Figure 3-3.
 - a. Do not remove screws from the Rail Clamps. Loosen only.
 - b. (3) Rail Clamps are typically used to secure the Roller Track to the Header. Locations will vary according to specifications.
2. Turn the Rail Clamps to the side.
3. Remove the Roller Track for the Lead door. Save for reinstallation.

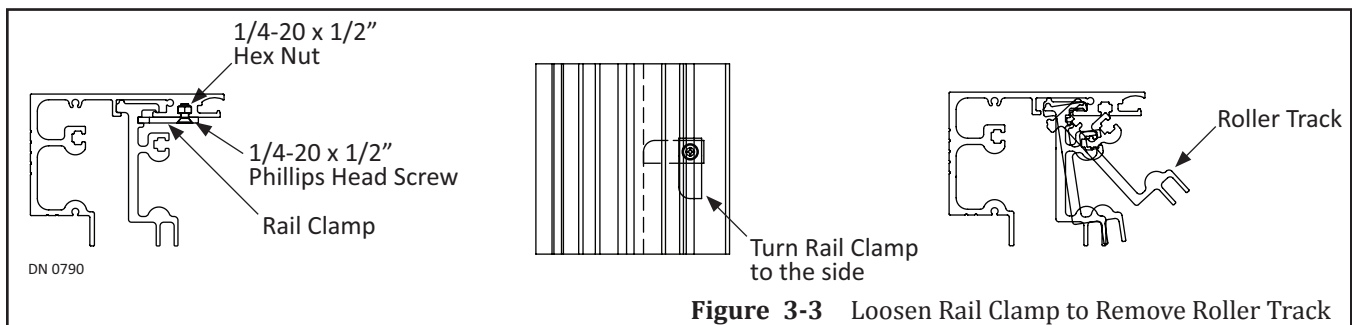


Figure 3-3 Loosen Rail Clamp to Remove Roller Track

Section 3c: Secure Header to Jamb Tubes

Note: (4) holes are pre-drilled on each Jamb Tube for 2 Panel Slide doors because they are non-handed.

1. Secure Header to each Jamb Tube with (3) 1/4-20 x 3/4 inch Phillips head, self tapping screws that were saved for reinstallation. Please see Figure 3-4.

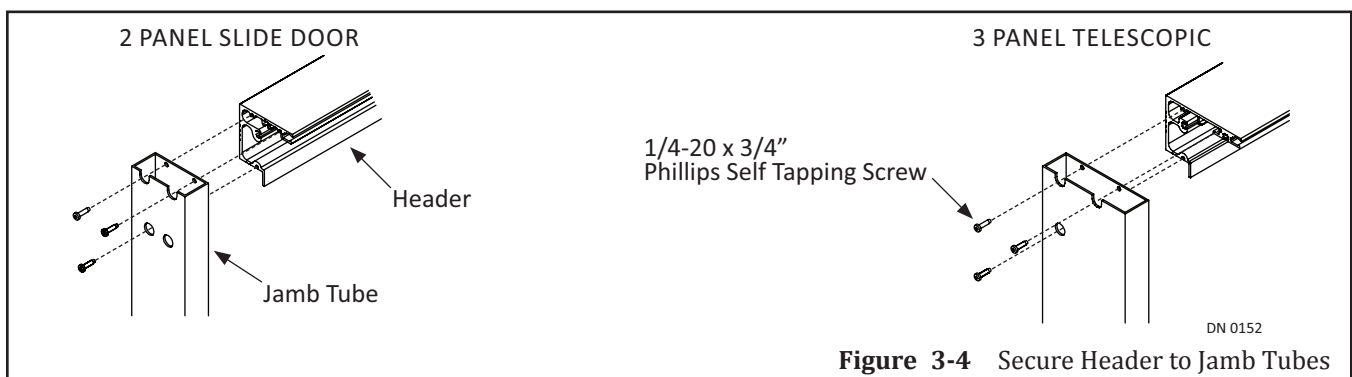
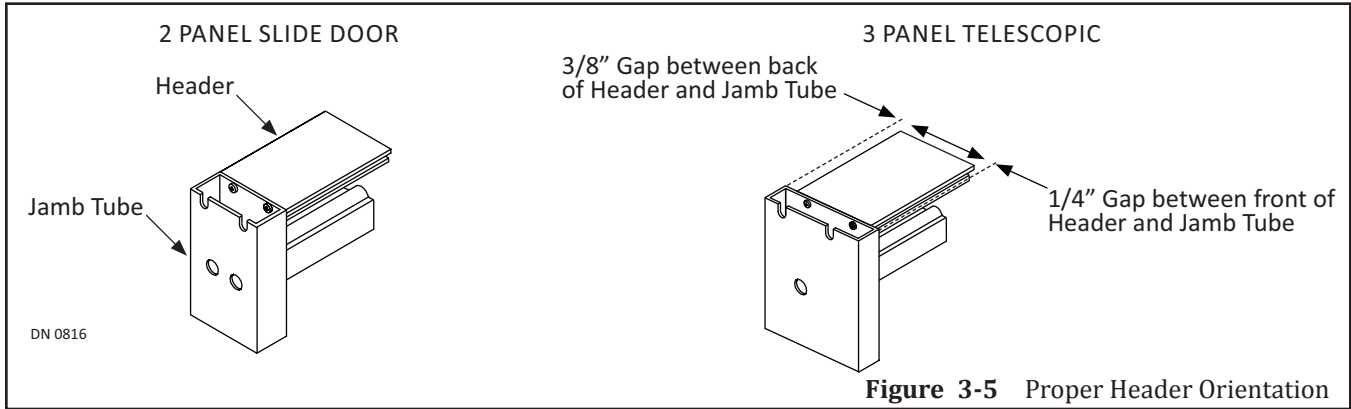


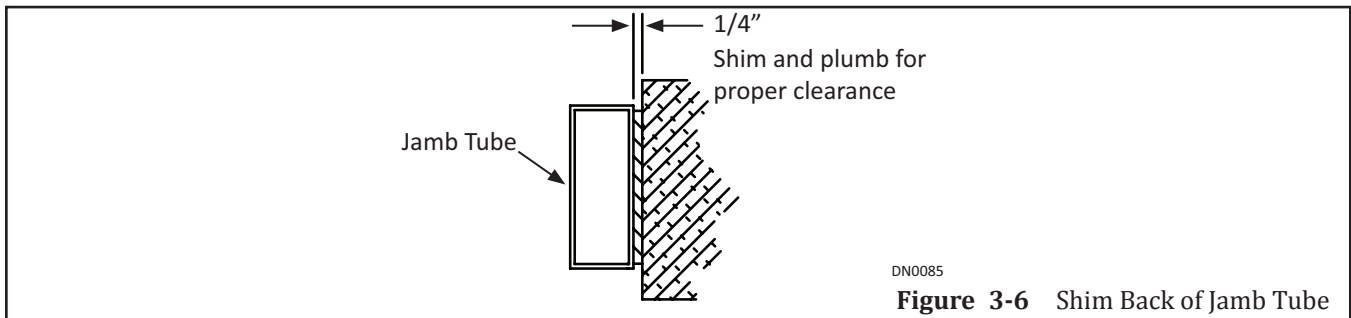
Figure 3-4 Secure Header to Jamb Tubes

2. Measure to ensure that each Jamb Tube is on the correct side of the Header. Please see Figure 3-5.
 - a. 2 Panel Slide doors:
 - Header and Jamb Tubes are the same width.

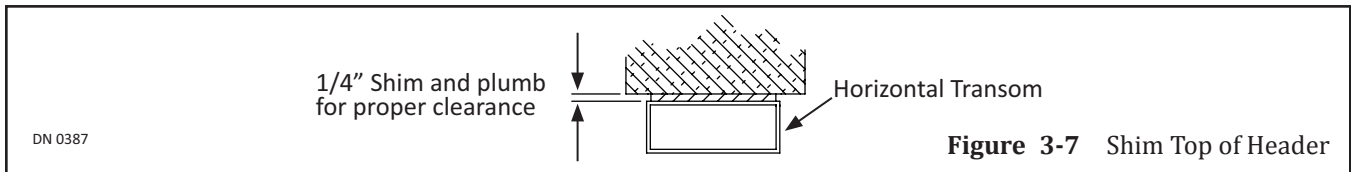
- b. 3 Panel Telescopic:
 - 3/8 inch gap between the back of Header and the Jamb Tube.
 - 1/4 inch gap between the front of Header and Jamb Tube.



3. Lift to position the assembled Frame into the rough opening.
4. Plumb Jamb tubes in both planes to ensure the rough opening allows a 1/4 inch clearance. Please see Figure 3-6.
 - a. Shim back of Jamb as required.



5. Plumb the Header at the top to ensure the rough opening allows a 1/4 inch clearance. Please see Figure 3-7.
 - a. Shim top of Header as required.



Section 3d: Secure Frame to Building

- Note: It is recommended to countersink holes as required to flush the surface.*
- Note: It is recommended to drill tap threads for 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.*

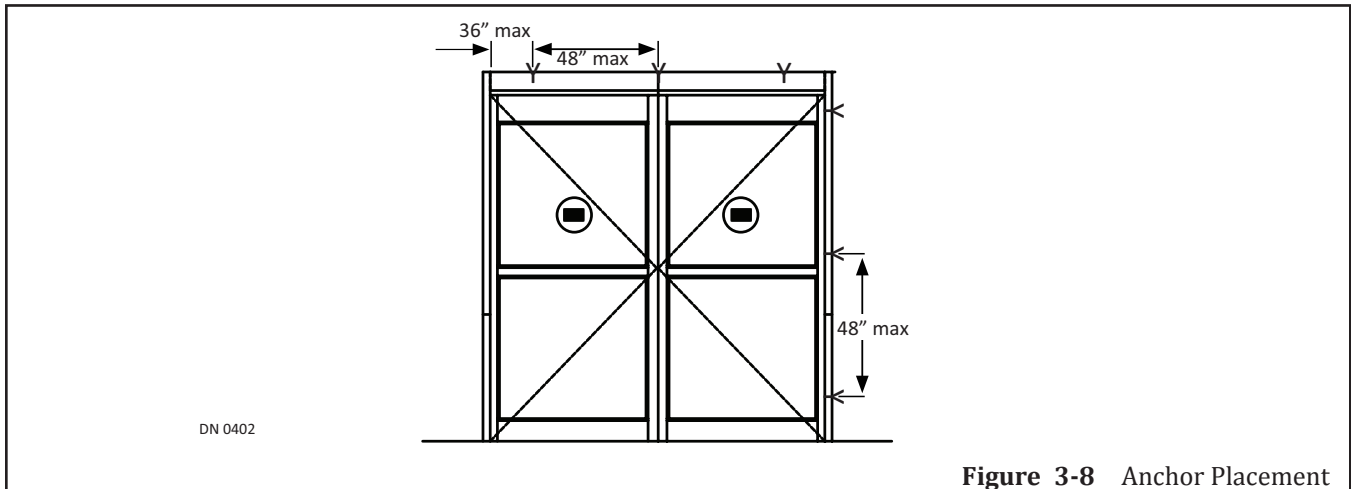
Note: To prevent Header sag, secure the Header in the middle to the top horizontal structural member of the opening. Use of 3/8 inch threaded rod or 1/4 inch bolts are acceptable methods of supporting the center of the header.

4.d.a: Anchor Placement for Header

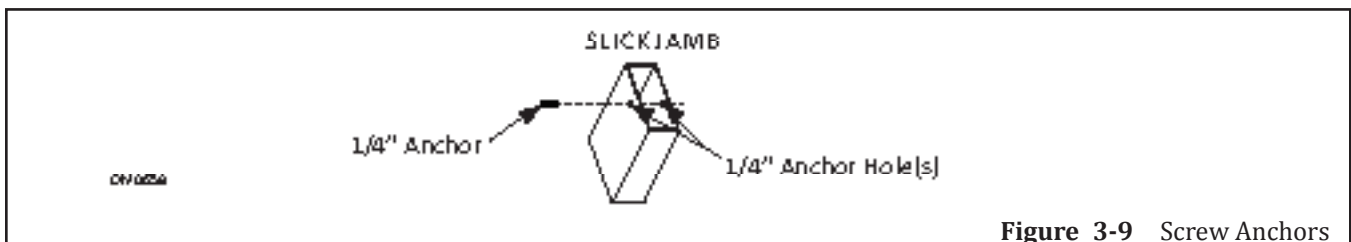
Use 1/4 inch diameter anchors or 3/8 inch threaded rods, with a maximum 48 inches on center. First anchor maximum is 36 inches from each end of the Header. Anchors and Fasteners must be appropriate for the type of structure being fastened into. Anchors and Fasteners are not provided by NABCO. Please see Figure 3-8 and Figure 3-9.

4.d.b: Anchor Placement for Slick 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 face of Jamb and then countersink each hole. Anchors and Fasteners must be appropriate for the type of structure being fastened into. Anchors and Fasteners are not provided by NABCO. Please see Figure 3-8 and Figure 3-9.



1. Screw in fasteners to secure the Frame. Please see Figure 3-9.
 - a. Do not overtighten anchors to prevent deforming Jamb tubes.
 - b. Ensure anchor heads to not come in contact with edges of glass to prevent breakage.



CHAPTER 4: INSTALL THE SWING SIDELITE

There are two types of GT-2100 manual ICU Units: 2 Panel or 3 Panel; both with Full Open option.

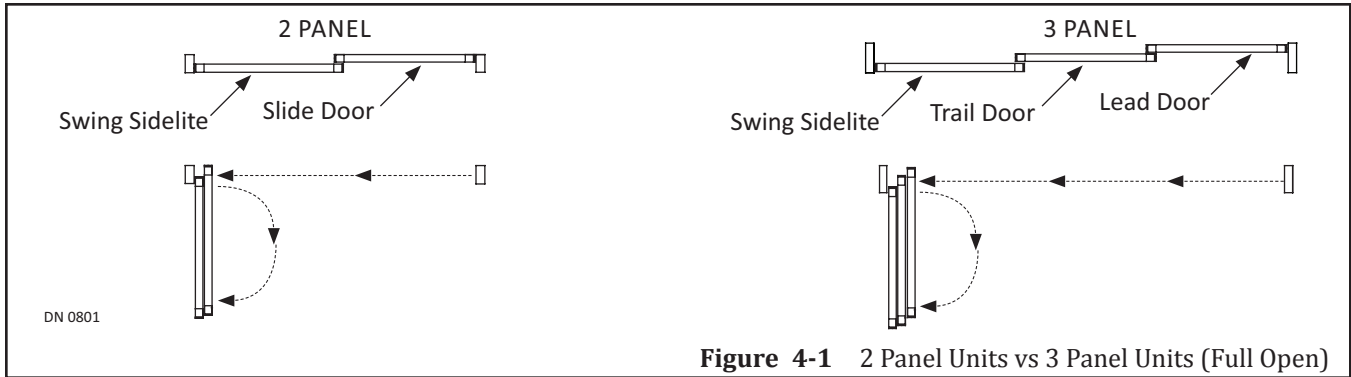


Figure 4-1 2 Panel Units vs 3 Panel Units (Full Open)

Section 4a: Install the Bottom Pivot

1. Obtain (1) Bottom Pivot Assembly, (1) Bushing, (3) #14 x 1-1/2 inch Phillips Head Screws, (3) #16 Hi-Red Screw Anchors.
2. Center and butt the Bottom Pivot Assembly up against the Jamb Tube so the Bottom Bushing is on the Breakout side of opening. Please see Figure 4-2.
 - a. Ensure sides of the Bottom Pivot are flush to the Jamb Tube.
3. With a 1/4 inch Masonry drill bit, drill through each screw hole at least 1-1/2 inches deep.
4. Remove the Bottom Pivot.
5. Insert (1) #16 Hi-Red Anchor into each drilled hole. Replace the Bottom Pivot.
6. Permanently secure Bottom Pivot to Floor by screwing (1) #14 x 1-1/2 inch Phillips Head Screws into the #16 Hi-Red Anchors.
7. Cap the Bottom Pivot Barrel with Bushing.

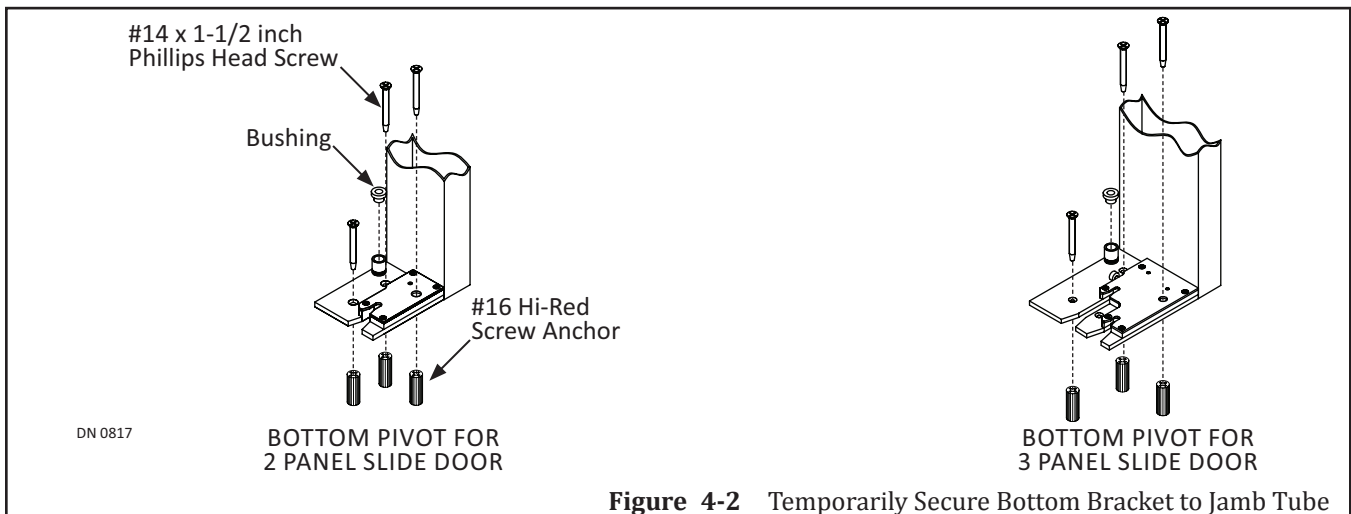
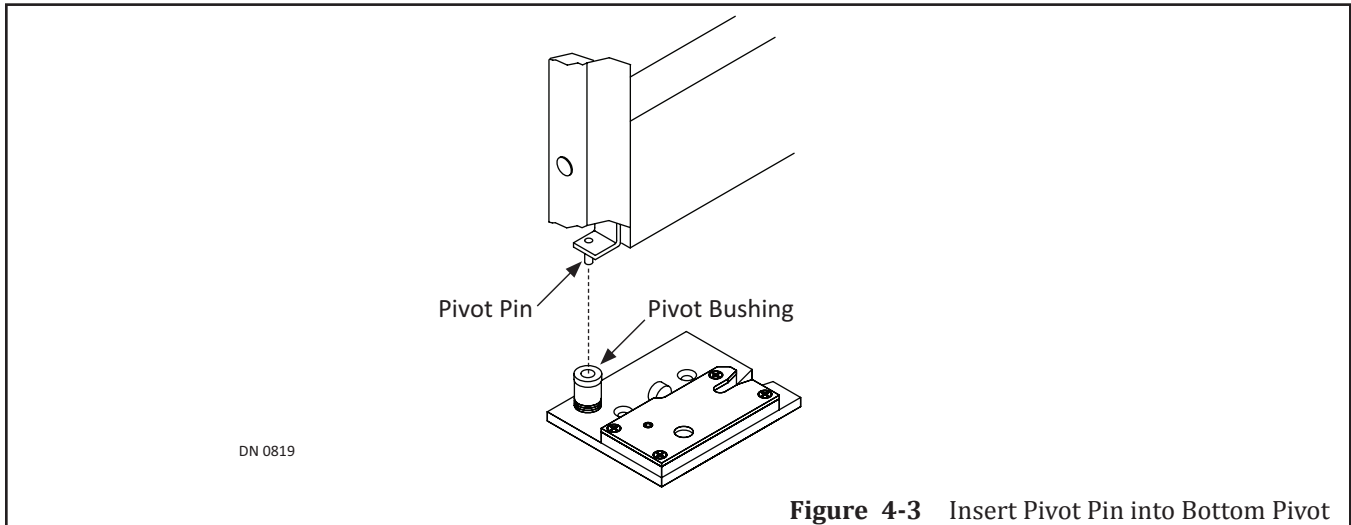


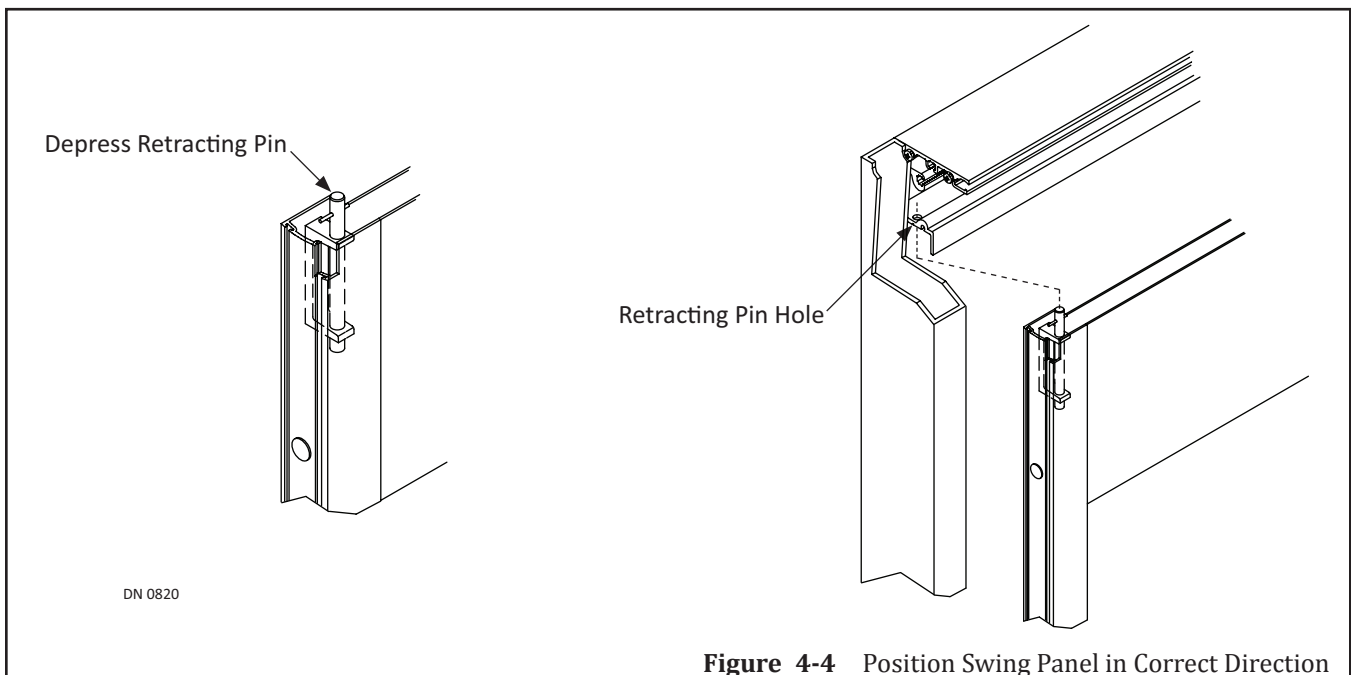
Figure 4-2 Temporarily Secure Bottom Bracket to Jamb Tube

Section 4b: Install Sidelite Panel onto Pivots

1. Carefully insert the Pivot Pin inside Bottom Pivot Bushing. Please see Figure 4-3.
 - a. Ensure the Breakout side of Sidelite Panel is on the Breakout side of the opening.

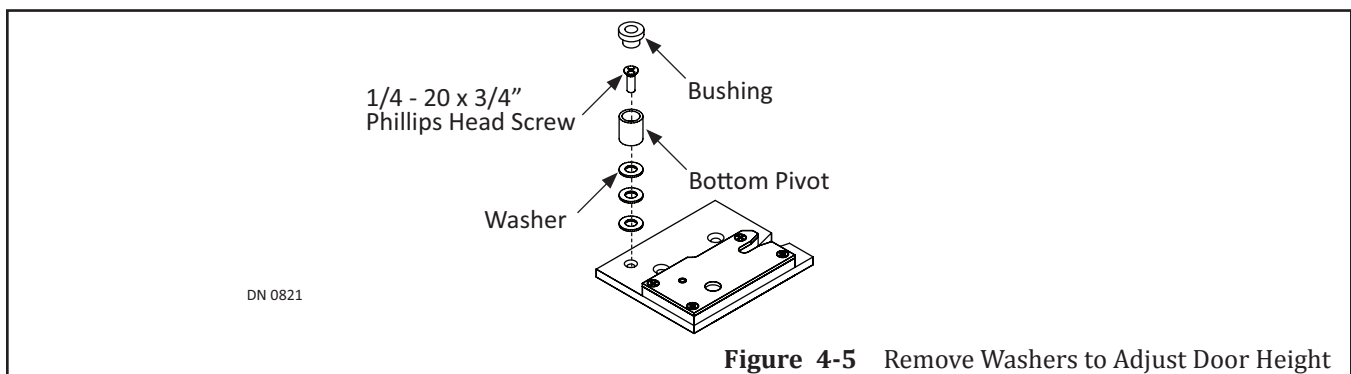


2. Go to the Retracting Pin located inside the Pivot Stile at the very top. Please see Figure 4-4.
3. Push the Retracting Pin down. At the same time, align the Pivot Pin with the Retracting Pivot hole located on bottom of Header. Allow the Retracting Pin to snap into the hole.
 - a. Ensure Pivot Pin fully engages the hole.
 - b. If necessary, lift up on the retracting pin with a screwdriver.



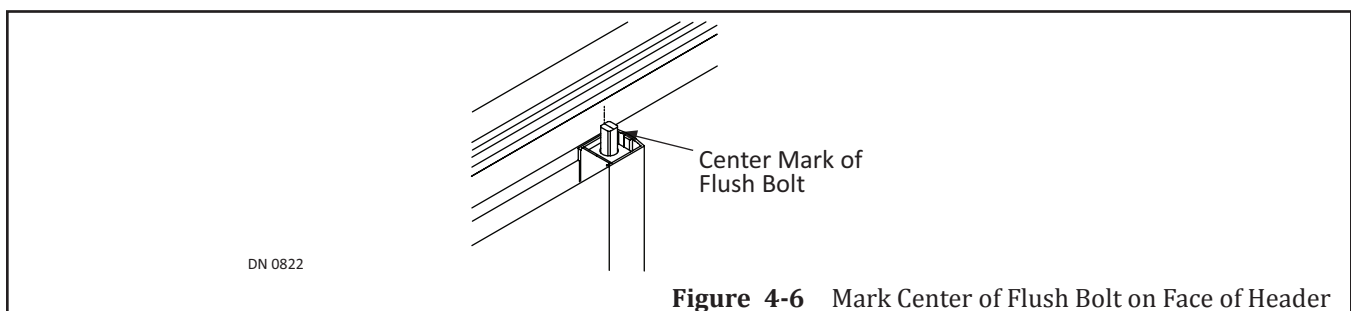
Section 4c: Adjust Door Height

1. Fully open and close Sidelite Panel to check for obstructions.
 - a. If there are no obstructions skip to Section 4d.
 - b. If there are obstructions continue following instructions within this Section.
2. Remove the Sidelite Panel and (1) Bushing. Please see Figure 4-5.
3. With a Phillips Head Screwdriver, remove (1) 1/4 - 20 x 3/4 inch screw.
4. Remove the Bottom Pivot.
5. Remove (1 - 3) Washers to lower door height or add Washers to increase door height.
6. Reinstall hardware and Sidelite Panel.
7. Fully open and close the Sidelite Panel to check for remaining obstructions.
 - a. If there are no obstructions skip to Section 4d.
 - b. If there are obstructions repeat instructions within this Section.



Section 4d: Drill Hole at Bottom of Header for Flush Bolt

1. Open Sidelite Panel 10 - 15 degrees.
2. Go to the Strike side of Sidelite Panel.
3. Pull out the Flush Bolt from the top.
4. Close the Sidelite Panel until the Flush Bolt contacts the side face of Header.
5. Locate the center of Flush Bolt and mark a line on the face of Header. Please see Figure 4-6.



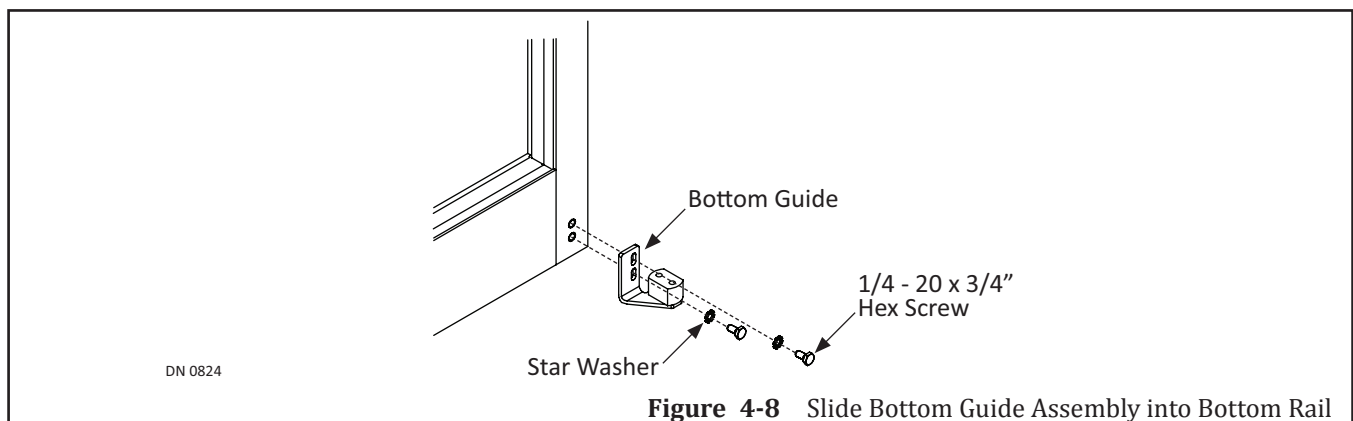
6. Open the Sidelite Panel.
7. Extend the line down to the bottom of Header then across the bottom of Header until the Alignment Groove is reached. Please see Figure 4-7.
8. Drill a 3/764 inch hole at the Alignment Groove.



9. Close the Sidelite Panel. Engage the Flushbolt to ensure proper fit.

Section 4e: Install the Bottom Guide

1. Obtain (1) Bottom Guide, (2) 1/4" Star Washers, and (2) 1/4 - 20 x 3/4 inch Hex Head Cap screws provided by NABCO.
2. Go to the Strike Stile on Sidelite Panel. Locate (2) pre-drilled screw holes at the bottom. Please see Figure 4-8.
3. Slide (1) 1/4 inch Star Washer onto each 1/4 - 20 x 3/4 inch Hex Head Cap screw.
4. Position the Bottom Guide so it is flush with the bottom of the Sidelite.
5. With a 7/16 inch Box End Wrench, secure the Bottom Guide to the Sidelite Panel with 1/4 - 20 x 3/4 inch Hex Head Cap screws.



6. For Telescopic units, repeat steps 1 - 5 to install the Bottom Guide on the Trail Door.

CHAPTER 5: INSTALL THE SLIDE DOORS

CAUTION

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

The Carrier is pre-installed on the Top Rail and includes (2) Hanger Rollers and (2) Anti Rise Rollers. The Carrier is used to hang each Slide Door onto the Track located inside the Header.

Section 5a: Reverse Hanger Rollers on Carrier

Note: For shipping purposes (4) Hanger Rollers are factory installed on the front side of the Carrier. The installer is responsible to reverse the Hanger Roller location before installing the Slide door.

1. Go to the front side of Carrier located on Top Rail. Remove each Hanger Roller by loosening the nut on with a 1/2" open end Wrench. Please see Figure 5-1.
2. Go to the back side of Carrier. Reinstall each Hanger Roller by partially tightening each nut with a 1/2" open end Wrench.
 - a. Leave Hanger Rollers loose for the Slide door to 'catch' onto the Track properly.
 - b. For detailed instruction, please refer to the Label located on the front side of Carrier.

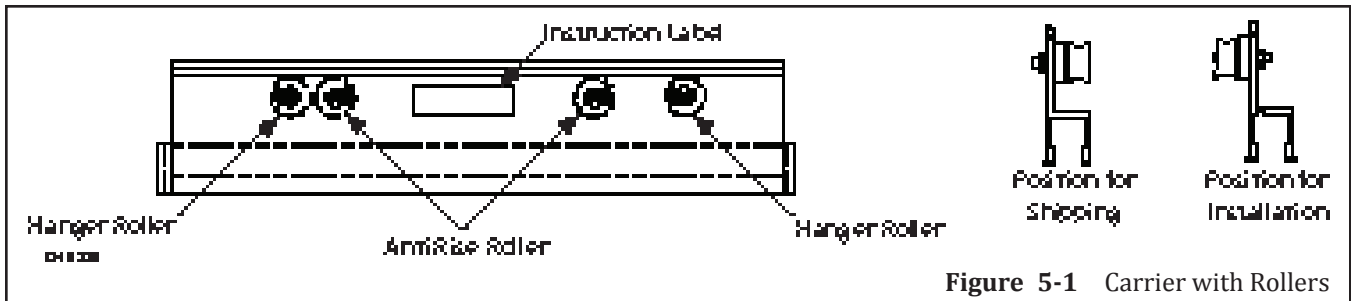


Figure 5-1 Carrier with Rollers

Section 5b: Lift Carrier onto Track (2 Panel and 3 Panel)

Note: The Trail Door on all 3-Panel Telescopic Units must be adjusted before installing the Lead Door.

1. Slightly tilt the Slide door (2 Panel) or Trail door (3 Panel) to make it easier for the (4) Rollers to 'catch' onto the track. Please see Figure 5-2.
2. With the door tilted install the Carrier onto the Track and on top of the Bottom Guide.

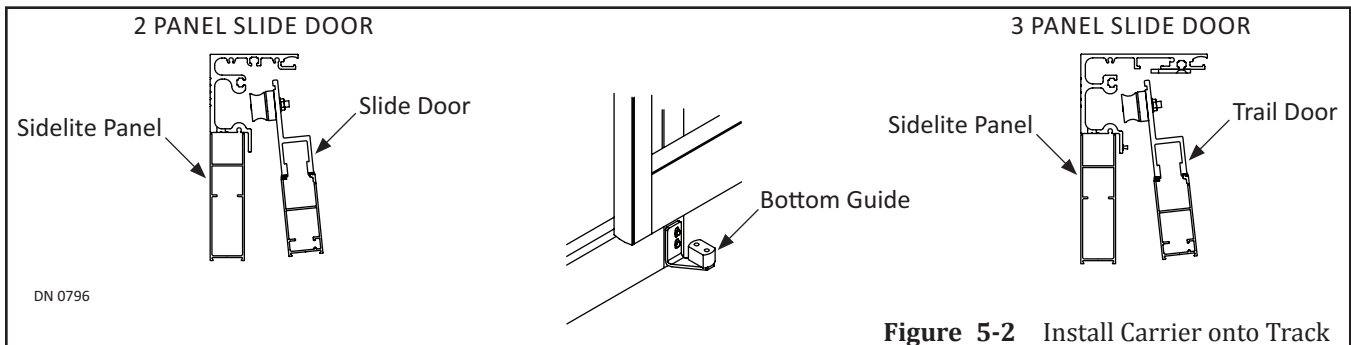
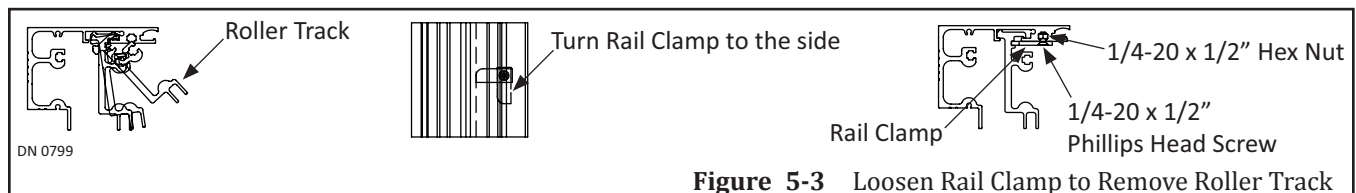


Figure 5-2 Install Carrier onto Track

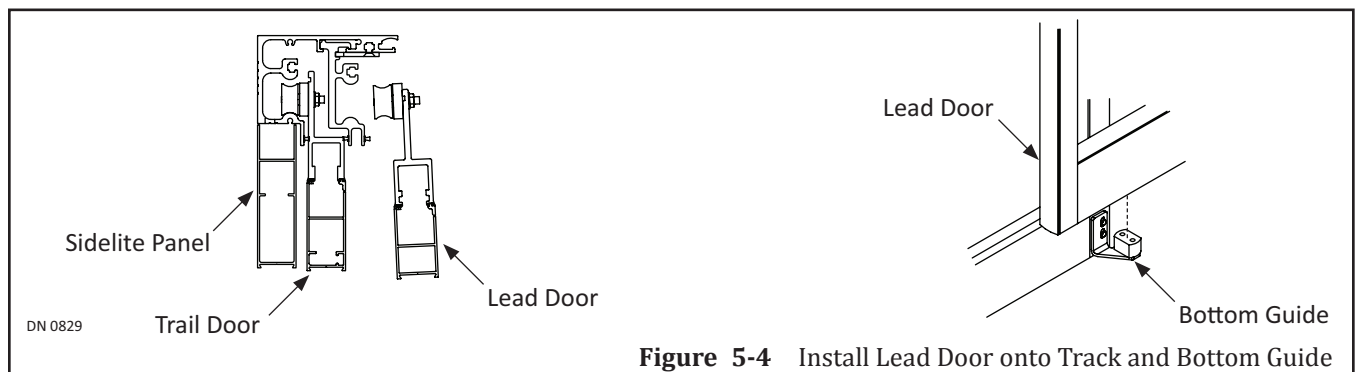
Section 5c: Lift Carrier onto Track (3 Panel)

FOR 2 PANEL DOORS SKIP TO NEXT CHAPTER

1. Obtain the Roller Track that was saved for reinstallation.
2. Tilt the Roller Track until it is inserted within the Header slot. Then let the Roller Track drop down until it is parallel to the floor. Please see Figure 5-3.
3. Turn (4) Rail Clamps back to their original position.
4. Use a #2 Phillips Screwdriver, to secure each Rail Clamp in place with (1) 1/4-20 x 1/2 inch Phillips Head screws that were saved for reinstallation.
 - a. Do not overtighten screws.



5. Slightly tilt the Lead door to make it easier for the (4) Rollers to 'catch' onto the track.
6. With Lead door tilted install the Carrier onto the Track and on top of the Bottom Guide. Please see Figure 5-4.



CHAPTER 6: INSTALL THE SELF CLOSING SLIDE DOOR

FOR UNITS WITHOUT "SELF CLOSING FEATURE" SKIP TO CHAPTER 7

Section 6a: Parts of the Header

Note: Header Layout is reverse for Slide doors that open to the left.

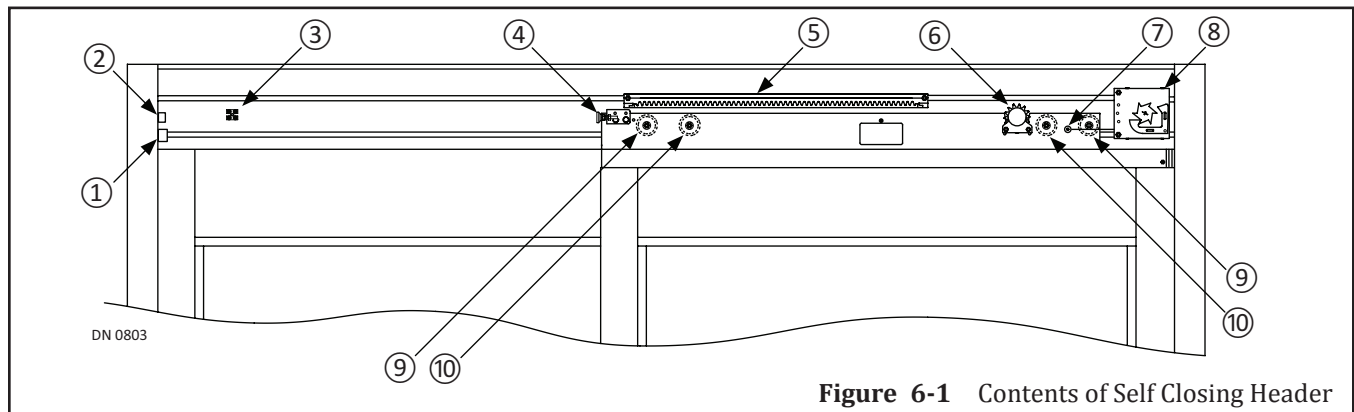


Figure 6-1 Contents of Self Closing Header

- | | |
|---------------------------------------|----------------------|
| 1. Door Stop | 6. Rotary Damper |
| 2. Electromagnet* | 7. Shoulder Bolt |
| 3. Terminal Strip for 24 VDC | 8. Pull Spring |
| 4. Hold Open Bracket w/Leveler Mount* | 9. Hanger Roller |
| 5. Control Rack | 10. Anti-Rise Roller |

*Used on Hold Open Units only

Section 6b: Wire the Components

FOR UNITS WITHOUT "HOLD OPEN FEATURE" SKIP TO SECTION 6C

Power Requirements for (Hold Open):

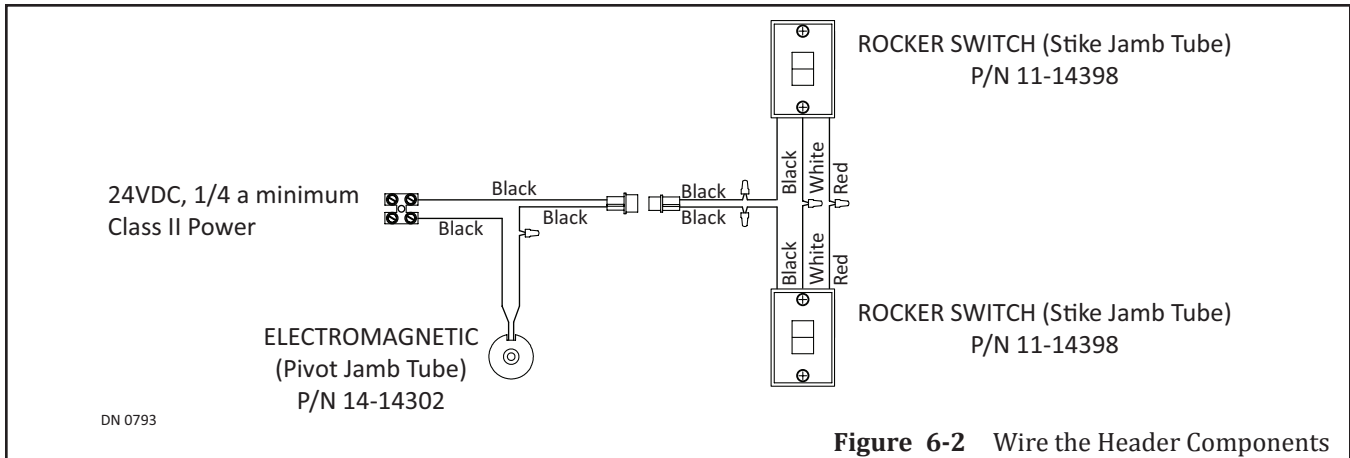
- ▶ 24VDC, 250mA minimum, UL Listed class 2 power supply.
- ▶ May use: Power Supply 24 VDC, 0.5A; NABCO P/N 14-14299.

DANGER

DO Not install the Power Supply inside the door.

DANGER

High voltage side of Power Supply must be connected in accordance with all applicable electrical codes.



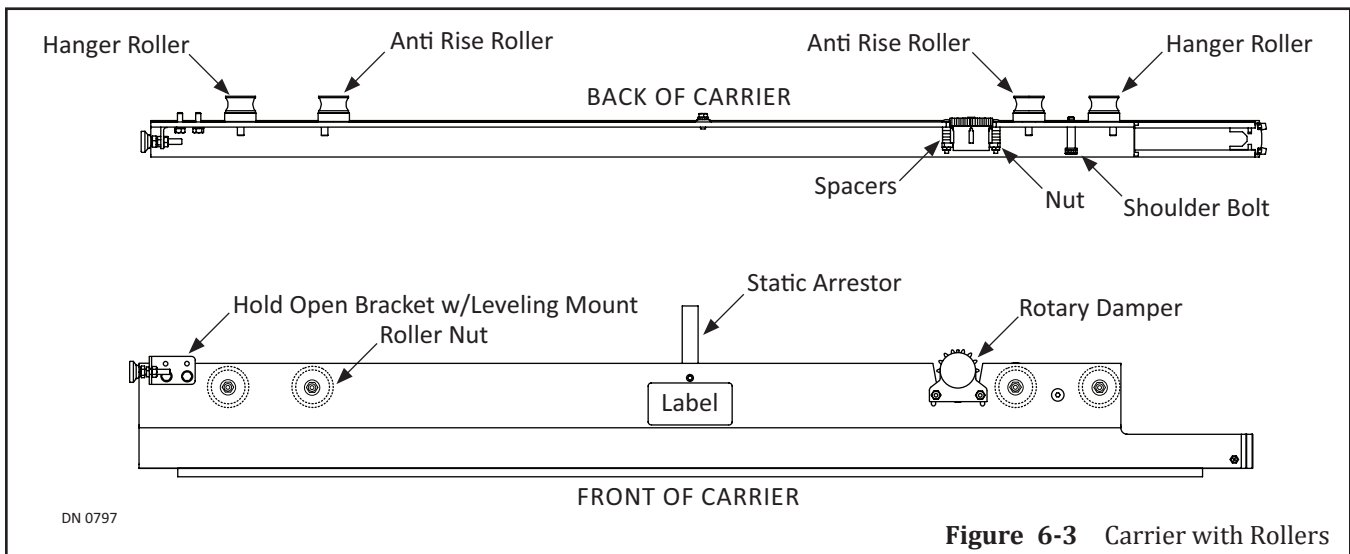
Section 6c: Lift Carrier onto Track

Note: The Carrier is pre-installed on the Top Rail and includes (4) Hanger Rollers, (1) Rotary Damper, (1) Static Arrestor, and (1) Hold Open Bracket w/Leveling Mount.

The Carrier is used to hang each Slide Door onto the Roller Track located inside the Header.

Note: For shipping purposes (4) Hanger Rollers are factory installed on the front side of the Carrier. The installer is responsible to reverse the Hanger Roller location before installing the Slide door.

1. Go to the front side of Carrier located on Top Rail of Slide door.
2. Remove each Hanger Roller by loosening the nut with a 1/2" open end Wrench. Please see Figure 6-3.
3. Go to the back side of Carrier. Reinstall each Hanger Roller by partially tightening each nut with a 1/2" open end Wrench.
 - a. Hanger Rollers must be loose for the Slide door to 'catch' onto the Track properly.
 - b. For detailed instruction, please refer to the Label located on the front side of Carrier.
4. Go to the Rotary Damper. Loosen each nut until the Rotary Damper slides down the slots.



5. Slightly tilt the Slide door to make it easier for the (4) Rollers to 'catch' onto the track. Please see Figure 6-4.
6. With Slide door tilted install the Carrier onto the Track.

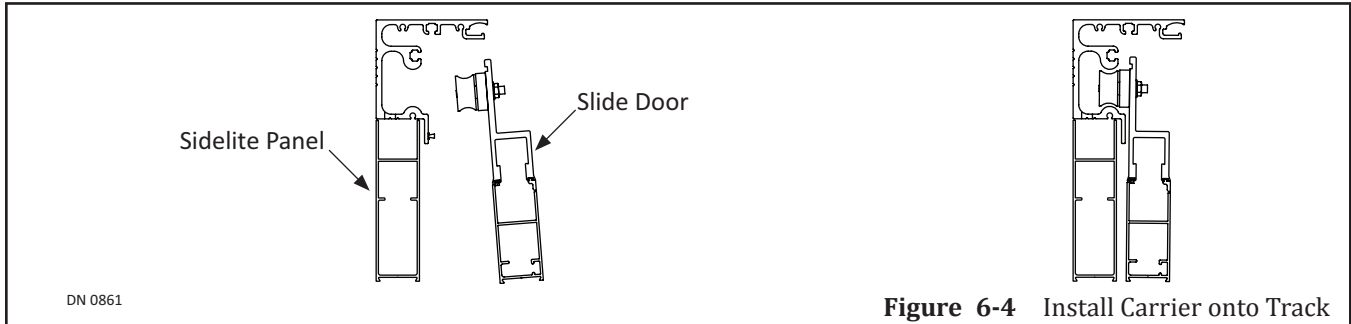


Figure 6-4 Install Carrier onto Track

Section 6d: Align the Rotary Damper to the Control Rack

1. Manually slide open the door until the Rotary Damper is directly underneath the Control Rack. Please see Figure 6-5.
2. Go to the Rotary Damper. Loosen (2) #10 hex nuts with a 3/8 inch wrench.
3. Slide the Rotary Damper up the slot until the teeth can fit inside the Control Rack teeth.
4. Tighten (2) #10 Hex nuts that were just loosened to secure the Rotary Damper in place. Do not overtighten.
5. To ensure proper engagement between Rotary Damper and Control Rack, slide the door back and forth to check for binding or chatter.

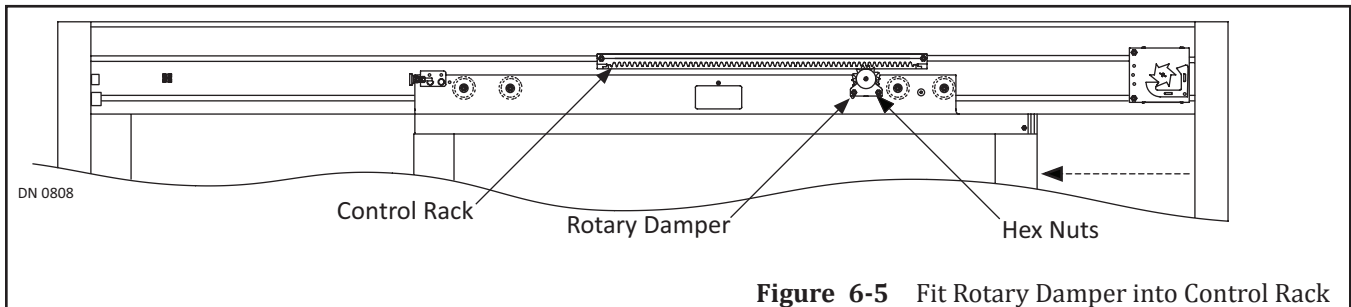


Figure 6-5 Fit Rotary Damper into Control Rack

Section 6e: Attach the Pull Spring to the Carrier

1. Close the door.
2. Go to the Shoulder Bolt located between (2) Hanger Rollers closest to the Strike Jamb. Please see Figure 6-6.
3. Remove the Shoulder Bolt with a 3/16 inch Allen Wrench.
4. Attach the Pull Spring to the Shoulder Bolt.
5. Reinstall the Shoulder Bolt with the Pull Spring attached.

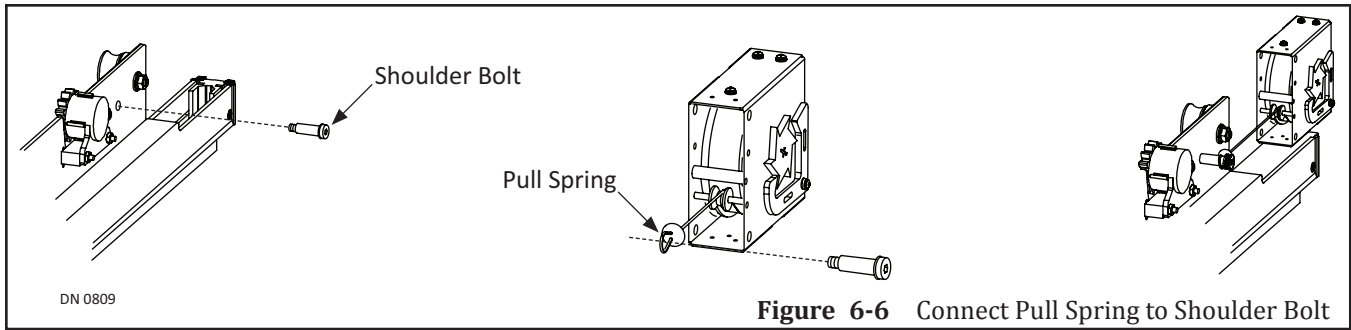


Figure 6-6 Connect Pull Spring to Shoulder Bolt

Section 6f: Align Slide Door with Electromagnet and Door Stop Bumper

FOR UNITS WITHOUT "HOLD OPEN FEATURE" SKIP TO CHAPTER 7

1. Manually slide door to full open position. Please see Figure 6-7.
2. Check alignment between the:
 - ▶ Carrier and Door Stop Bumper.
 - ▶ Electromagnetic and Magnetic Latch.
 - a. Both pairs should come in contact at the same time.

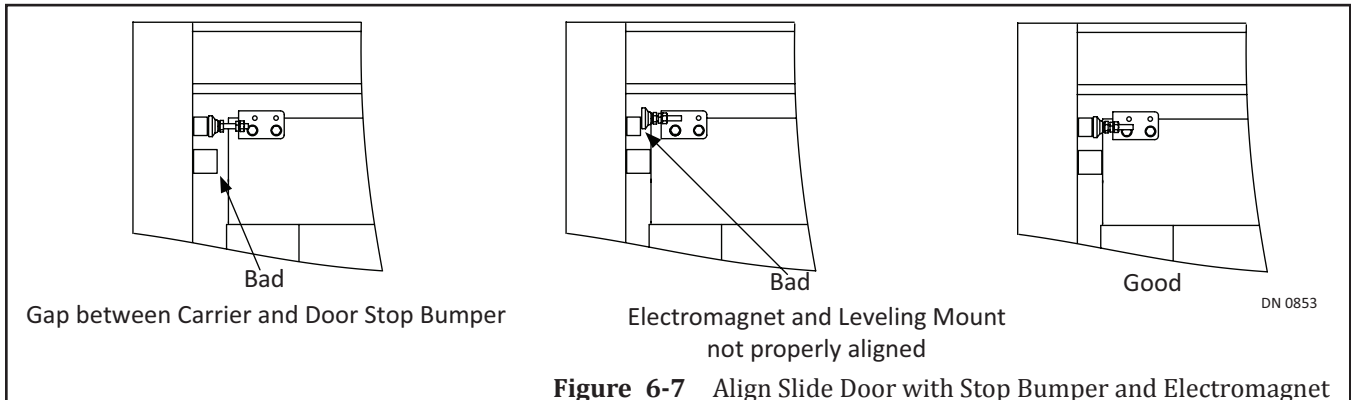


Figure 6-7 Align Slide Door with Stop Bumper and Electromagnet

3. Loosen (2) Hex nuts on the Magnetic Strike. Please see Figure 6-8.
4. Slide the Carrier until it is against the Slide door Bumper.
5. While holding the Carrier to the Slide door Bumper, adjust the Magnetic Strike to contact and align with the Magnet on the Jamb Tube. Tighten Hex nuts.

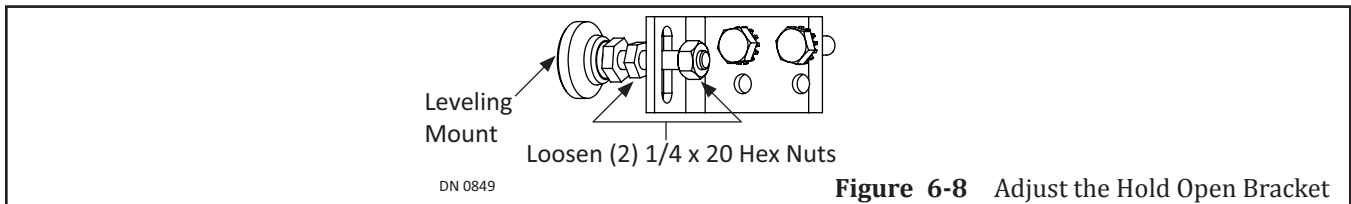


Figure 6-8 Adjust the Hold Open Bracket

Section 6g: Adjust the Closing Speed

CAUTION

Do Not let Slide door slam shut.

1. Open the Slide door.
2. Allow Slide door to fully close. It should close slowly.
 - a. If the Slide door does not close fully:
 1. Go to the Pull Spring.
 2. With a Flathead screwdriver turn the Tension plate counterclockwise to increase tension. Please see Figure 6-9.

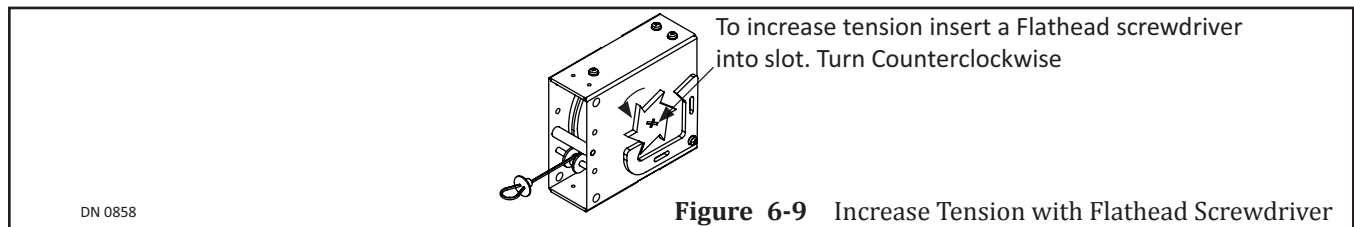


Figure 6-9 Increase Tension with Flathead Screwdriver

- b. If the Slide door closes too fast:
 1. Go to the Pull Spring.
 2. With both Index fingers carefully push the Tension Bracket forward so the Tension Plate clicks clockwise. Please see Figure 6-10.
 - a. This will decrease tension on the Pull Spring.
 3. With both thumbs push the Tension Bracket back to starting position.
 - a. Do not pinch fingers while setting the Tension.

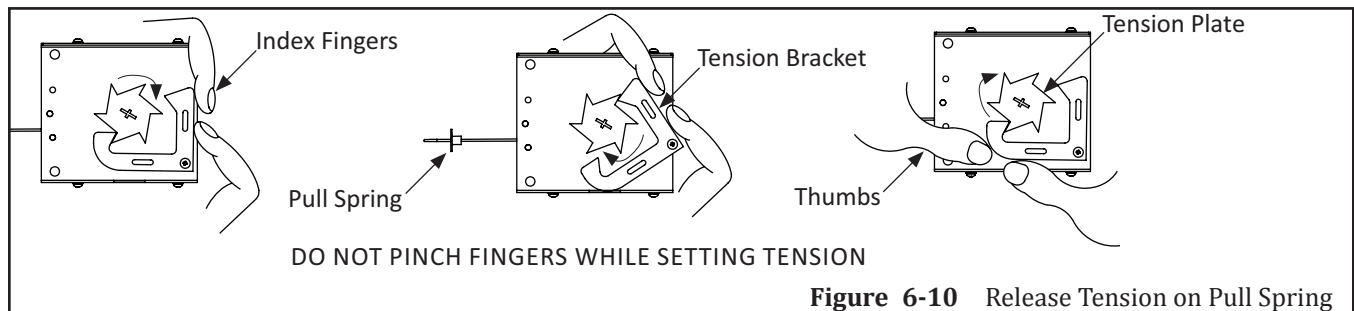


Figure 6-10 Release Tension on Pull Spring

- c. For more speed control, adjust the Rotary Damper.
 1. Turn the dial clockwise to increase damping.
 2. Turn the dial counterclockwise to decrease damping.

Section 6h: Fine Tune the Latching Speed

- ▶ To increase Latching speed:
 1. Move the Control Rack farther away from the Strike Jamb Tube.
 2. Adjust the Pull Spring and Rotary Damper after moving the control rack.
- ▶ To decrease Latching speed:
 1. Move the control rack closer to the Strike Jamb Tube.
 - a. Slide door will move faster before hitting the Control Rack.
 2. Adjust the Pull Spring and Rotary Damper after moving the Control Rack.

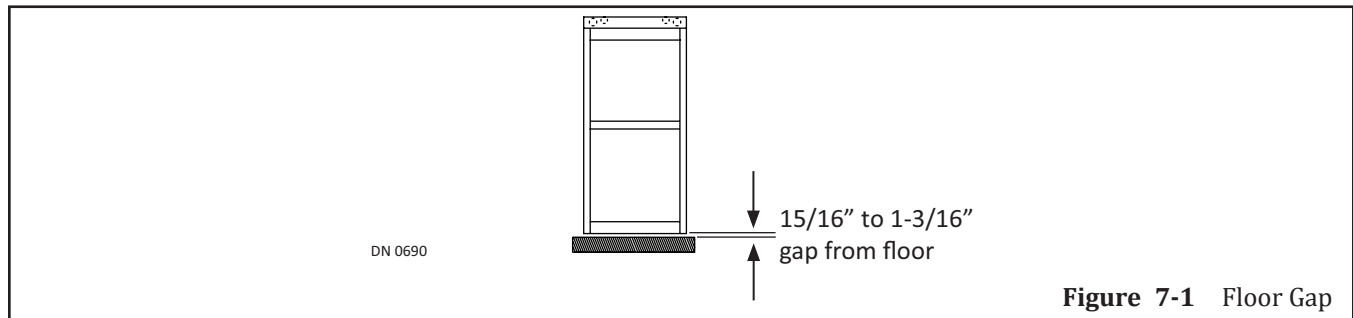
CHAPTER 7: ADJUST THE SLIDE DOOR

Section 7a: Adjust Height on Slide Door

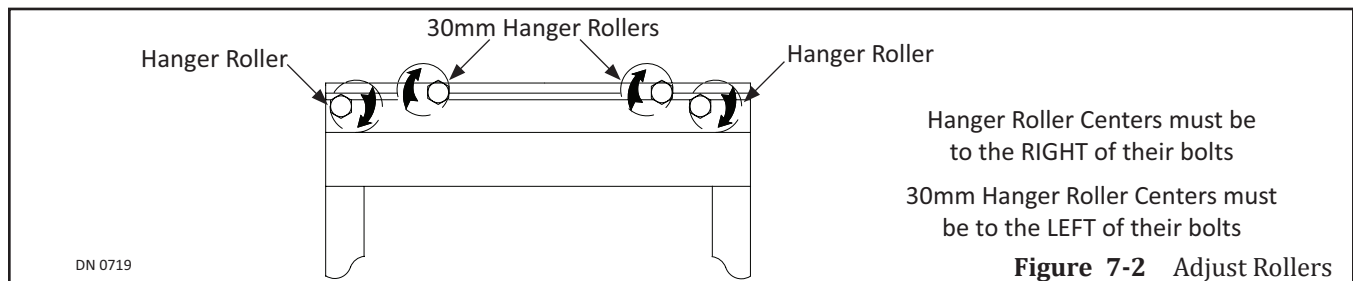
Note: The Trail Door on all Telescopic Slide Units must be adjusted before installing the Lead Door.

The appropriate gap between the Bottom Rail and the floor can vary between 15/16 inch to 1-3/16 inch, with the recommended gap being 1 inch. Please see Figure 7-1.

Hanger Rollers are used to adjust the height of Slide door, and to ensure the Leading edge of Slide door and Sidelite Panel are parallel at the top or bottom.



1. Go to the Carrier. If Hanger Roller nut is tight, loosen it with a 1/2 inch Open End Wrench.
2. Keep Hanger Roller nut from turning with a 1/2 inch Open End wrench. At same time insert 5/32 inch Allen wrench into end of Hanger Roller. Please see Figure 7-2.



3. Turn Axle clockwise to raise or lower the Slide door.
4. Adjust the (2) Hanger Rollers located at each end of door first.

CAUTION

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

5. 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.

Note: Ensure the Pivot Pin is fully inserted within the Bottom Pivot.

6. Fully open Slide door to ensure proper engagement in the Pivot Plate.
7. Insert 5/32 inch Allen wrench into end of Hanger Roller. Tighten nut with a 1/2 inch Open End wrench until the Hanger Roller is secured to the Carrier. Do not overtighten the nut.
8. Adjust Anti-Rise Rollers so they almost make contact with the top of Roller Track.
 - a. Gap should be about the same thickness of a credit card.

9. Tighten nut with a 1/2 inch Open End wrench until the Anti-Rise Roller is secured to the Carrier.
 - a. Do not overtighten the nut.

Section 7b: Adjust Trail Door through Mill Cut Out

There is a 4-1/2 inch cutout located on the Roller Track directly behind the Hanger Rollers. Use 1/2 inch Wrench and a 5/32 inch Allen Wrench to make adjustments. Please see Figure 7-3.

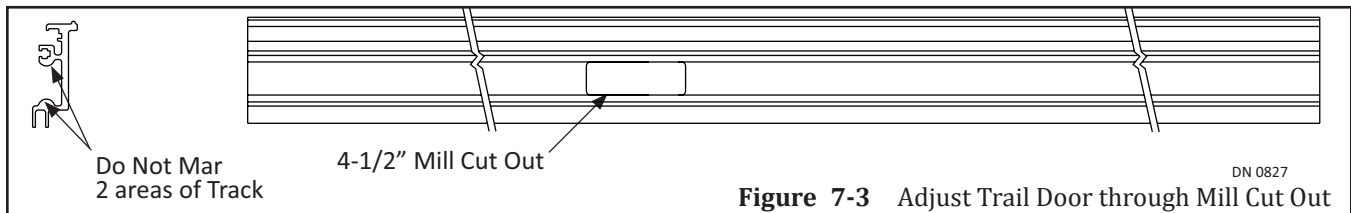


Figure 7-3 Adjust Trail Door through Mill Cut Out

Section 7c: For Units 54 Inches Wide (or greater) and/or over 200 Pounds

1. Locate the Nose Caster that was pre-installed within the Bottom Rail at the NABCO Factory. Please see Figure 7-4.

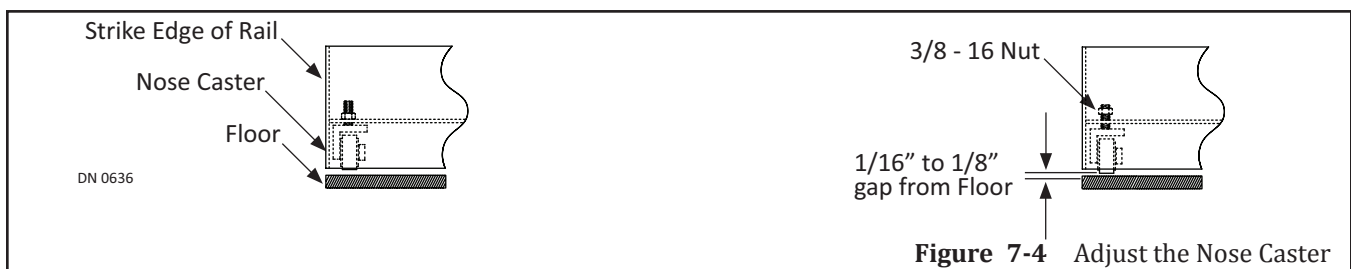


Figure 7-4 Adjust the Nose Caster

2. With a 9/16 Open End Wrench loosen the 3/8-16 Nut used to secure the Nose Caster to Bottom Rail.
3. Rotate Nose Caster until it is between 1/16 to 1/8 inch from the floor.
4. Position the Wheel so it is perpendicular to the Bottom Rail.
5. With a 9/16 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.
6. Fully close the Fixed Sidelite.
7. Complete (1) Cycle to ensure Nose Caster does not hit or scrape the floor.
 - a. If Fixed Sidelite 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 x 3/8 inch screws that were saved.

Section 7d: Adjust Preload on Trail and Lead Doors

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

1. Support the weight of Slide Door. Then Breakout approximately 5 degrees; just enough to expose the Preload Adjustment Screw located on back edge of door.
 - a. Fixed sidelite must not come into contact with other doors.

2. Check for door sag. Please see Figure 7-5.

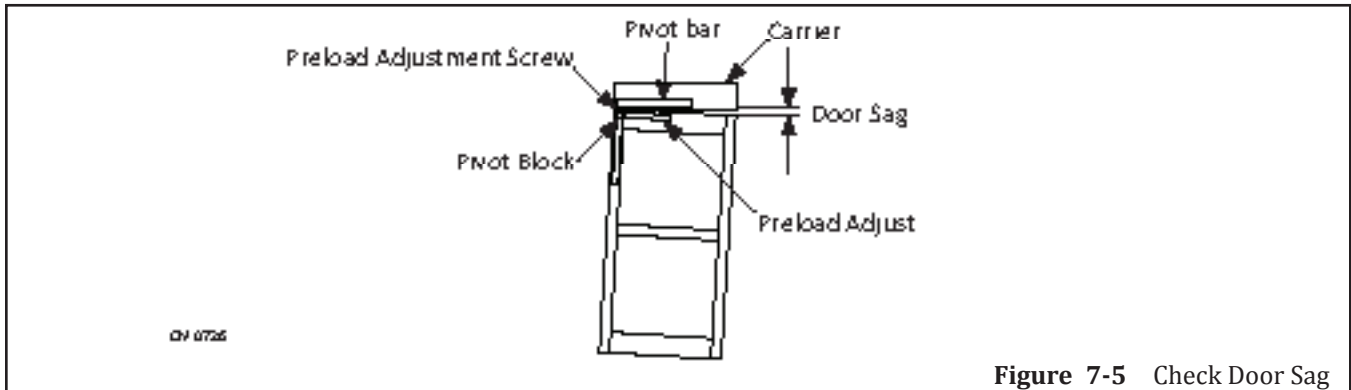


Figure 7-5 Check Door Sag

3. Go to the Preload Block located inside Top Rail. Please see Figure 7-6.
4. Loosen (2) Locking Bolts.
5. Go to the back edge of Pivot Stile. Reduce Door sag by tightening the 5/16 inch Adjustment Set Screw with an 5/32 inch Allen Wrench.
 - a. The Door should latch without having to be manually lifted.
 - b. Do Not allow the Adjusting Set Screw to protrude more than 5/32 inch past the end of stile.
 - c. If deemed necessary: an optional 1/2 inch Set Screw has been provided by NABCO.

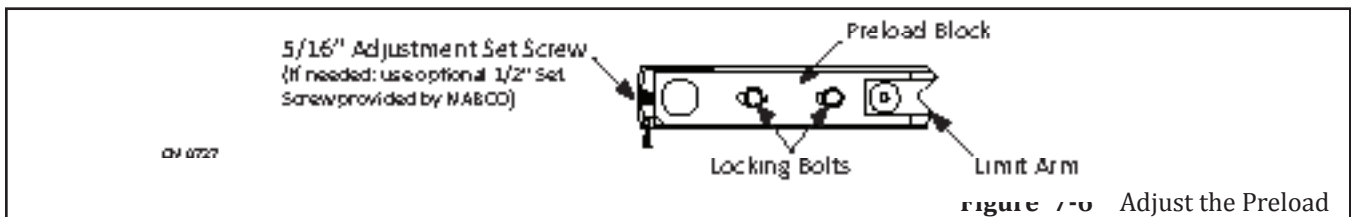


Figure 7-6 Adjust the Preload

8.d.a: Correct Preload Misalignment

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

1. Loosen the Allen head fasteners in the pivot bar and slide the pivot bar in the hanger until the door and hanger are properly aligned. Please see Figure 7-7.
2. Verify that the panic catch in the top rail of the door and the hanger are still aligned.
3. If necessary loosen the set screws for the panic catch in the hanger and reposition to align with the panic catch in the top rail.

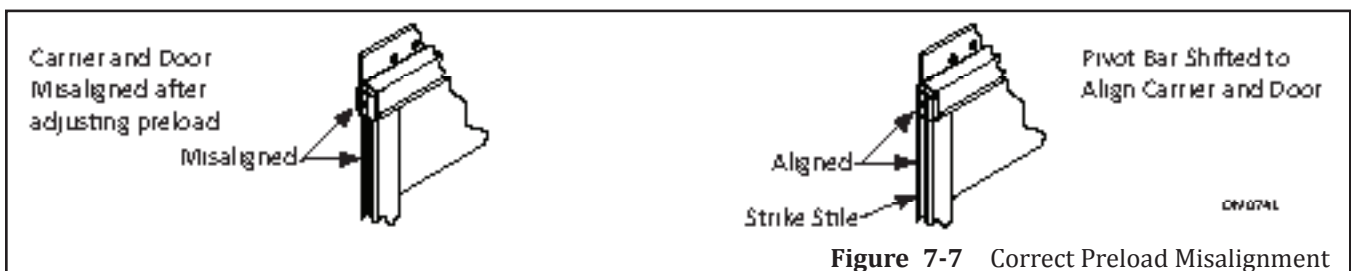


Figure 7-7 Correct Preload Misalignment

CHAPTER 8: PANIC ADJUSTMENT

Section 8a: Adjust the Ball Plunger

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

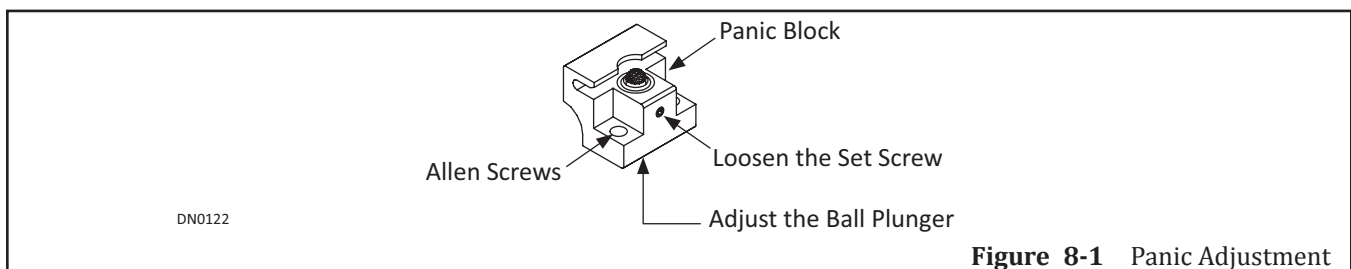
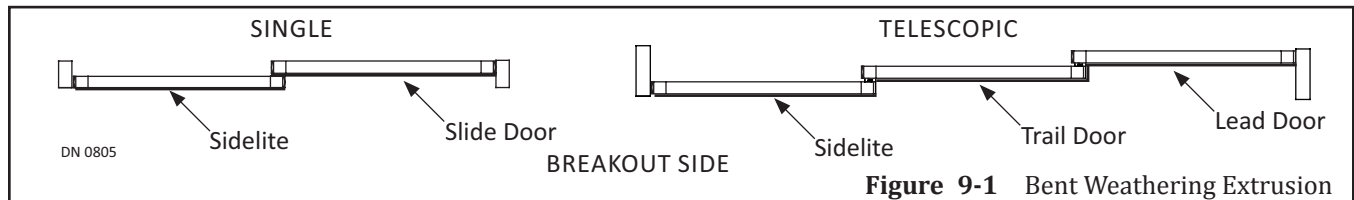


Figure 8-1 Panic Adjustment

3. Loosen the Set screw that is located in front of the Panic Block.
 - a. Adjust the Ball plunger down, so Panic Catch does not engage if Panic Hardware is used.
4. Raise or lower the Ball plunger located underneath the Panic Block.
 - a. The Ball plunger must be adjusted for proper breakout resistance to meet ANSI A156.10 code or local code.
5. Tighten the Set screw.
6. Reinstall the Panic Block and tighten the two Allen screws that were saved for reinstallation.
 - a. Save Allen screws.
7. Repeat steps 1-6 until the Ball Plunger is properly adjusted.
8. Perform steps 1-7 for the Trail Door and Sidelite Panel.

CHAPTER 9: INSTALL WEATHERING (SMOKE SEAL UNITS)

**FOR UNITS WITHOUT "SMOKE SEAL" SKIP TO
CHAPTER 10**



Section 9a: Slide Door or Lead Door

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

1. Obtain (1) Brush Holder and (1) Vinyl provided by NABCO.
2. Install the Vinyl by sliding it into the Brush Holder.
3. Secure the Brush Holder against the Bottom Rail of Slide door or Lead door with (3) #6 x 1/2 inch self tapping screws. Please see Figure 9-2.

Section 9b: Trail Door (Telescopic Units)

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

1. Obtain (1) Bent Brush Holder and (1) Vinyl provided by NABCO.
2. Install the Vinyl by sliding it into the Brush Holder.
3. Break out the Lead door.
4. Secure (1) Bent Brush Holder against the Bottom Rail of Trail door with (3) #6 x 1/2 inch self tapping screws. Please see Figure 9-2.

Section 9c: Swing Sidelite

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

1. Obtain (1) Brush Holder and (1) Vinyl provided by NABCO.
2. Install the Vinyl by sliding it into the Brush Holder.
3. Breakout the Trail door.
4. 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.
 - b. Allow 1/8 inch Vinyl to extend past the Brush Holder so the gap is filled.
 - c. Failure to do so, will cause the Brush Holder to damage the Pivot Jamb Tube and/or keep the Swing Sidelite from opening.

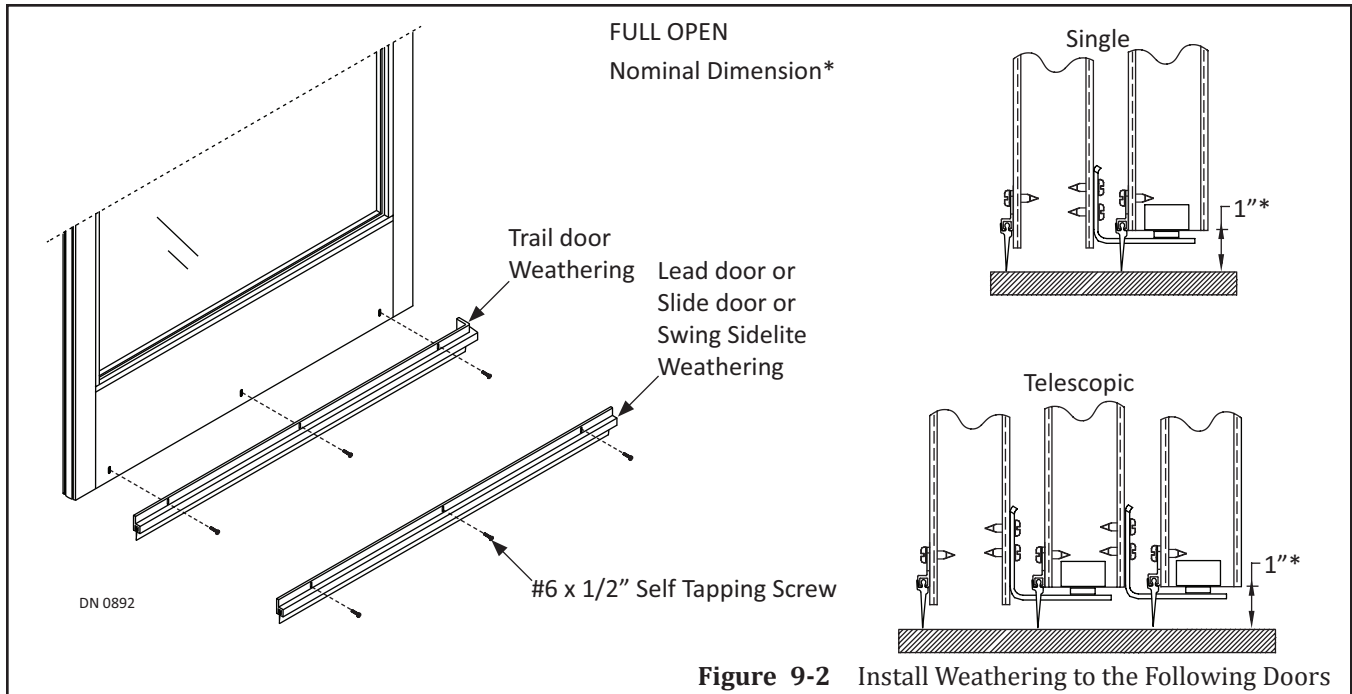


Figure 9-2 Install Weathering to the Following Doors

Section 9d: Apply Caulking Bead

1. Ensure the entire Door Frame is properly secured to the Rough Opening.
2. Apply caulking bead between the Door Frame and Rough Opening (inside and outside). Please see Figure 9-3.

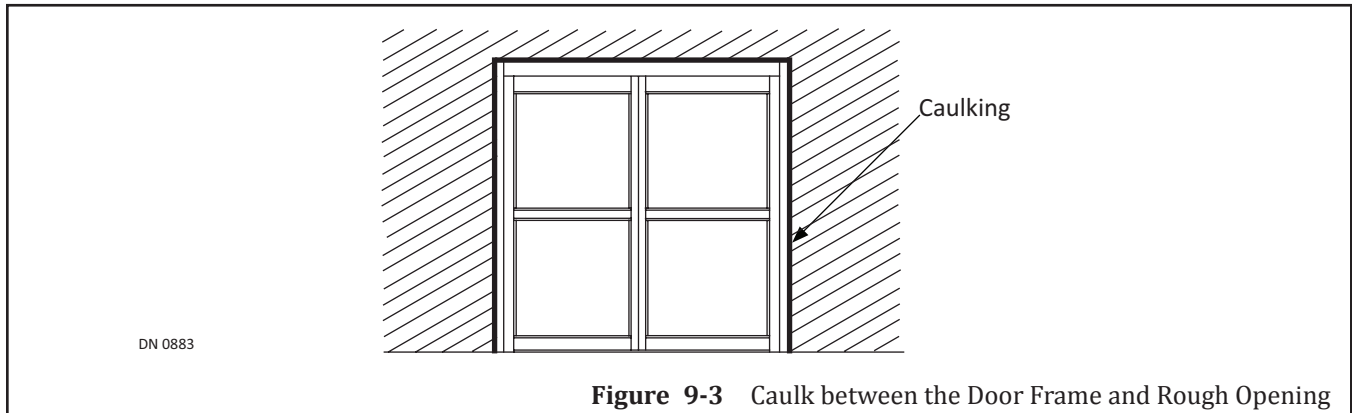


Figure 9-3 Caulk between the Door Frame and Rough Opening

CHAPTER 10: INSTALL THE SLIDE DOOR HANDLE

1. Obtain the Slide door handle Kit which consists of (1) Handle, (1) Recessed Door Pull, (1) Handle Bracket, (2) 1/4-20 x 1/2 inch Hex Socket Cap screws, and (2) #8-32 x 1 inch Phillips Flat Head screws. Please see Figure 10-1.
2. Open the Slide door. Go to the Interior side.
3. Insert the Handle Bracket inside the Strike Stile cut out. Hold in place.
4. Go to the Exterior side. Butt the Handle against the Handle Bracket.
5. Line up the screw holes. Hold in place.
6. Secure the Handle to the Handle Bracket with (2) 1/4-20 x 1/2 inch Hex Socket Cap screws on the Interior side of Slide door.
7. Stay on the Interior side and close the Slide door.
8. Secure the Recessed Door Pull to the Handle Bracket with (2) #8-32 x 1 inch Phillips Flat Head screws.

