



Electric Window Telescopic Manual Slide Doors

Installation Manual

P/N C-00444 Rev 12-16-22

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Associated Manuals Part Numbers: Electric Window Manual Slide Door Owners Manual (P/N C-00423)

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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CHAPTER 1: WARNING LABELS

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

DANGER

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

WARNING

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

CAUTION

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

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

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

Note: Indicates important information that provides further instruction.

CHAPTER 2: GENERAL SAFETY RECOMMENDATIONS

WARNING

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

WARNING

Read, study and understand the installation and operating instructions contained in, or referenced in this manual before operating. If you do not understand the instruction, ask a qualified technician. Failure to do so may result in bodily injury, or property damage and will nullify all warranties.

WARNING

Use this operator only with Nabco sliding doors.

DANGER

Disconnect all power to the junction box prior to making any electrical connections. Failure to do so may result in serious personal or fatal injury. When uncertain whether power supply is disconnected, always verify using a voltmeter.

CAUTION

The Ground wire from the OPUS Control 120 VAC Harness, and the Incoming 120 VAC Ground wire must be connected to the Ground screw located within the Swing door Header.

CAUTION

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.

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

Notice: Wiring must meet all local, state, federal or other governing agency codes.

Notice: All electrical troubleshooting or service must be performed by qualified electrical technicians and must comply with all applicable governing agency codes.

CHAPTER 3: SCOPE

SECTION 3.1: To the Installer

The purpose of this manual is to familiarize the installer/purchaser with the proper installation of this system. 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 Z97.1 covers Glass Installation. Other local standards or codes may apply; use in addition to the ANSI standard.

Instruct the building owners and operator on the essentials of the operation of the door. 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 3.2: Objective

The Electric Window Telescopic Slide Door system is designed to be installed within a Rough Opening of a Building. The door function is manually operated. This manual offers step by step installation instructions.

CAUTION

A pedestrian Door that does not have its glass sections installed at the Factory shall specify that the glazing material employed is to comply with the requirement in UL 325 par.30.5.1:

"The glazing material in both fixed and sliding panels of all sliding doors and in all unframed swinging doors shall comply with the requirements in the Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings, ANSI Z97.1. Glazing material for other pedestrian doors shall also comply with ANSI Z97.1, except that single strength or heavier glass may be used for those portions of doors involving a glazed area of less than 1ft² (0.9 m²) and having no dimension greater than 18 in (457 mm)".

CHAPTER 4: GETTING STARTED

SECTION 4.1: Associated Manuals

For User convenience there are now (2) ways to obtain associated Manuals:

- ▶ All Associated Manuals are packed within Decal Packets that are placed inside Header.
- ▶ For Electronic copies please log onto: www.nabcoentrances.com → myNABCO portal.

SECTION 4.2: Request a User Name/Password to gain access into the "myNABCO" portal

To gain access into the "myNABCO" portal, the User must first have an assigned User Name and Password. To request a User Name and Password, the following must be done:

1. Open the NABCO Website: www.nabcoentrances.com
2. Enter the "myNABCO" portal → Request Access → Fill out the Request Access Form → Click onto Register
 - a. A User Name and Password will be emailed back to the requestor.

SECTION 4.3: Type of Unit

- ▶ Single Telescopic Slide Door: (1) Slide door and (1) Trail door slides to the right or left with (1) Sidelite panel.
- ▶ Full Open: The Slide door, the Trail door, and the Swing Sidelite breakout for emergency egress.

CHAPTER 5: BEFORE ASSEMBLING THE DOOR FRAME

SECTION 5.1: Inspect the Rough Opening

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

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

2. Ensure the floor is level across the entire opening. If used, check recessed threshold across the door opening.

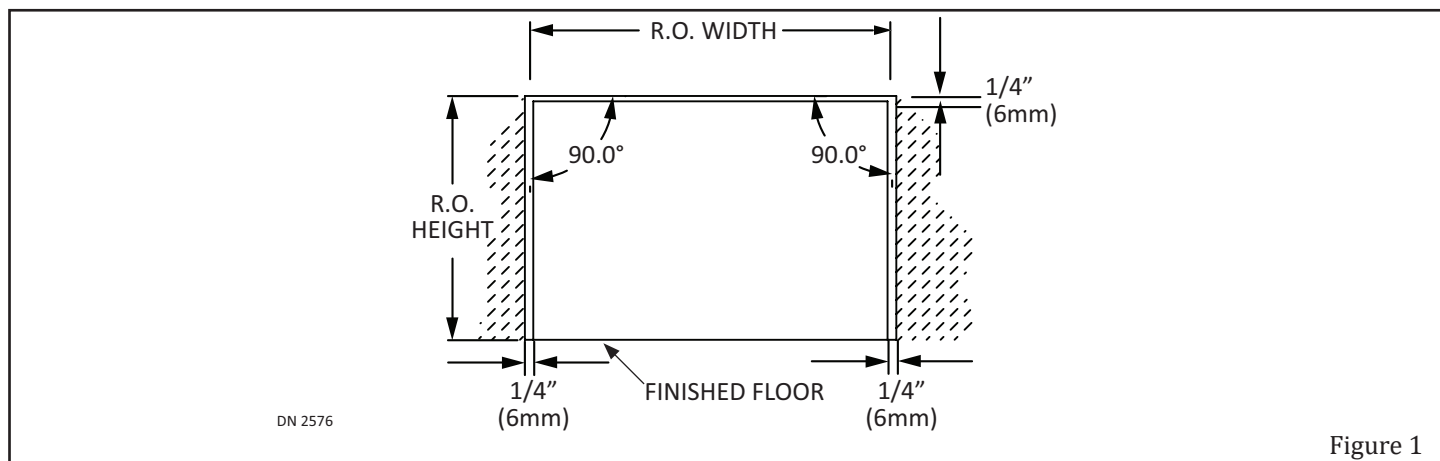


Figure 1

SECTION 5.2: Remove Header Cover (1)

1. Go to (1) Header Cover (WITHOUT the Notch). Remove (2) 10-24 x 0.625 inch Screws from the Bottom Lip.
2. Lift the Header Cover "Up" then pull it out.
 - a. Do Not remove the Header Cover with Notch/Long Slot at this time.

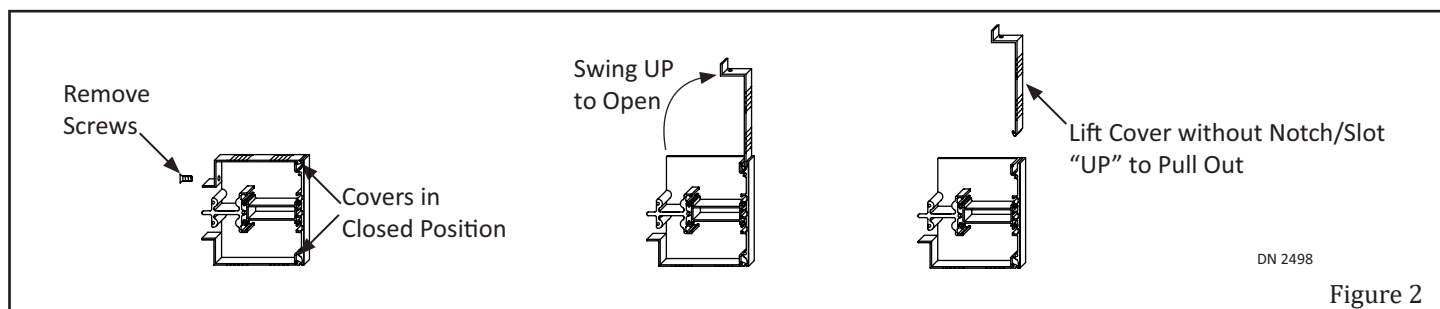


Figure 2

CHAPTER 6: SHUT OFF CIRCUIT BREAKER

WARNING

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

WARNING

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

CAUTION

Electrical circuit to Nabco operator must not be shared with other equipment such as lighting, cash registers, or any device that might cause electrical interference on the circuit.

CAUTION

Keep sufficient spacing between high-voltage and low-voltage wiring. 120 VAC Power wires must be routed (separate from other wiring) located near the top of inside Header.

CAUTION

Ensure that incoming electrical ground is properly secured to the grounding screw or grounding wire, whichever is provided.

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

Attention: Any non-factory low voltage wiring added inside the Header must be Type CL2 wire or the equivalent in accordance with Article 725 of the NEC.

Notice: Wiring must meet all local, state, federal or other governing agency codes.

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

CHAPTER 7: ASSEMBLE THE DOOR FRAME

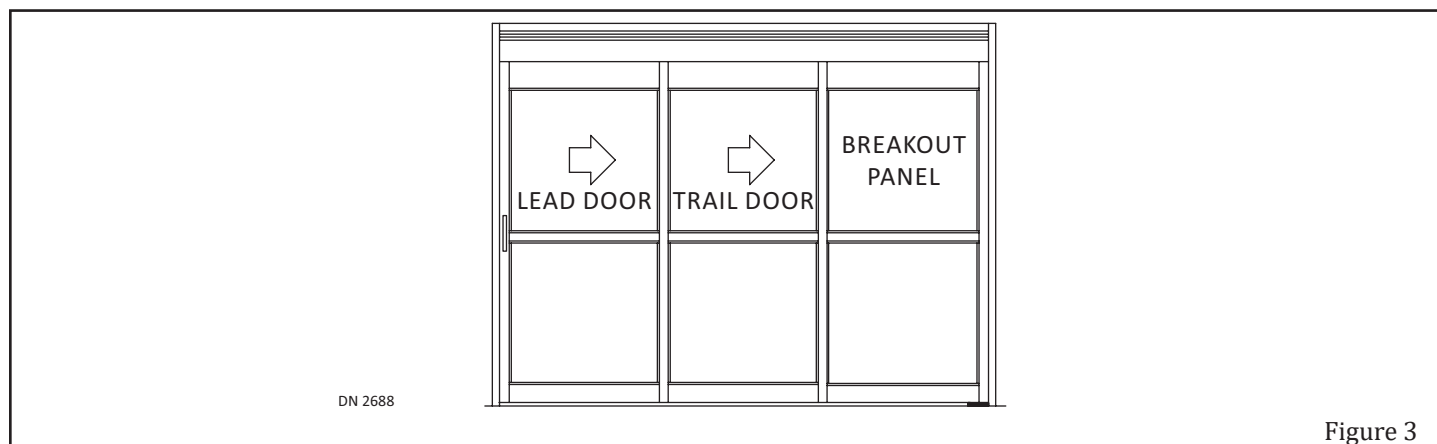


Figure 3

SECTION 7.1: Prepare the Door Frame

Attention: Sidelite side of Header (with Notch) must face the Breakout side of Door Opening.

1. Place the Header on a flat surface so the Access Cover with (1) Notch, is facing "Up".
 - a. Notch in Cover is used so the Header Cover can still open after the Sidelite is broken out.

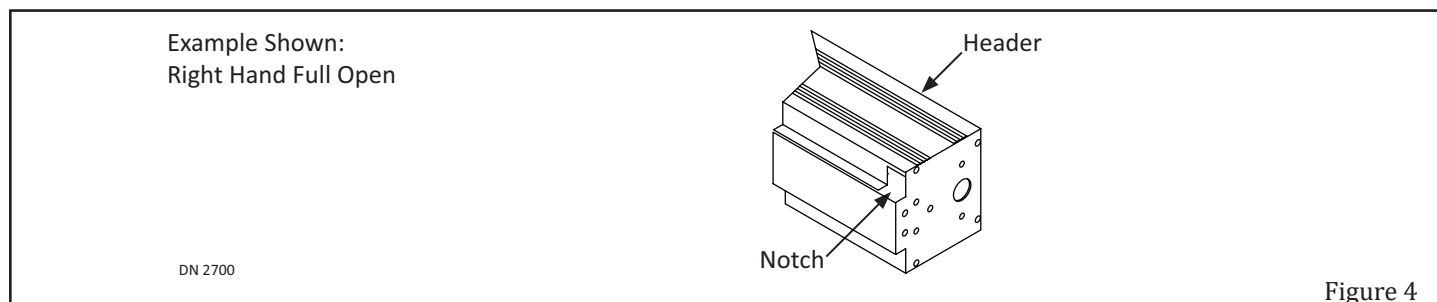


Figure 4

2. Lay down the Pivot Jamb Tube next to the Pivot Side of Header.
3. Lay down the Strike Jamb Tube so the inside face is positioned next to the Strike Side of Header.
4. Align pre-drilled screw holes located on Jamb Tubes with each End Cap of Header.

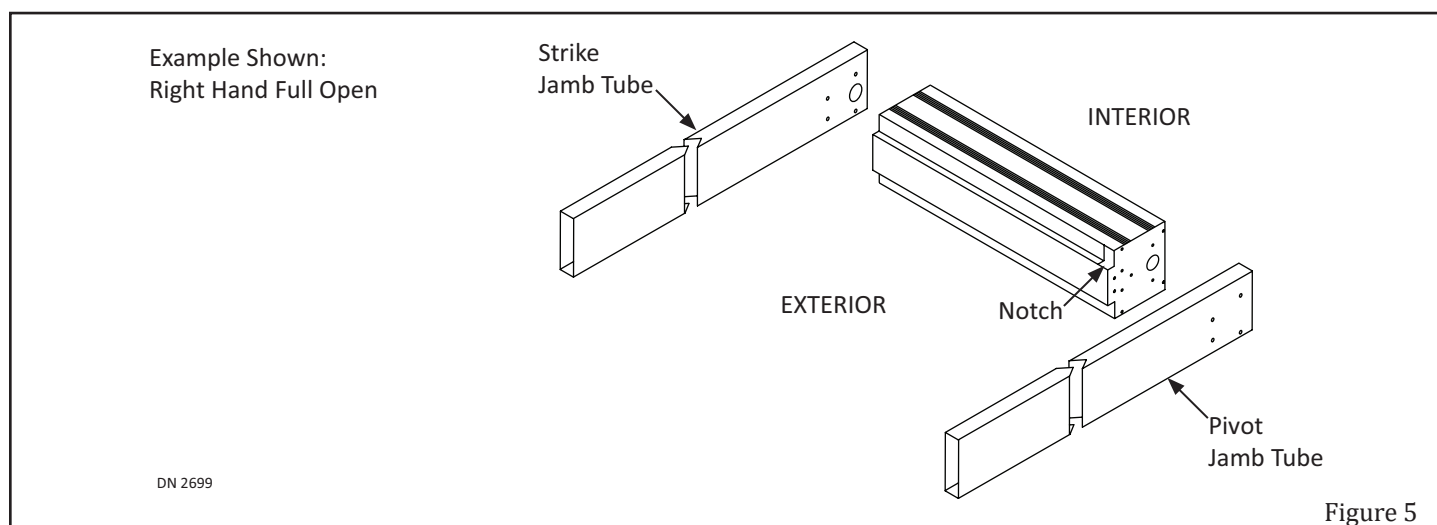
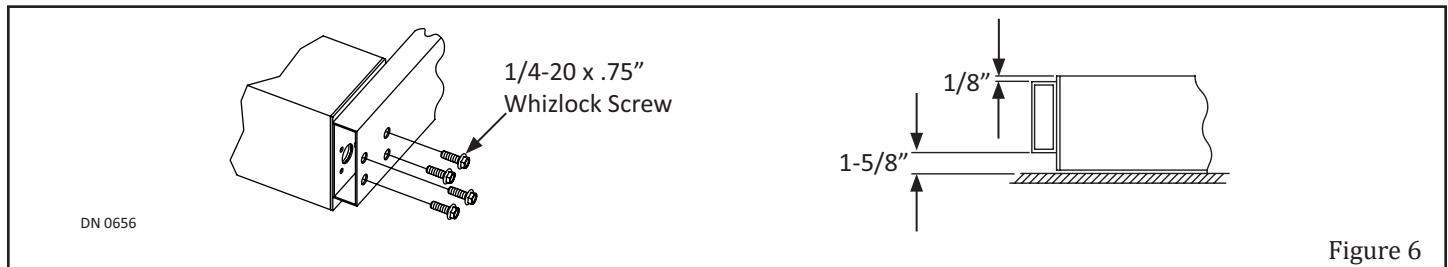


Figure 5

SECTION 7.2: Secure Jamb Tubes to Header

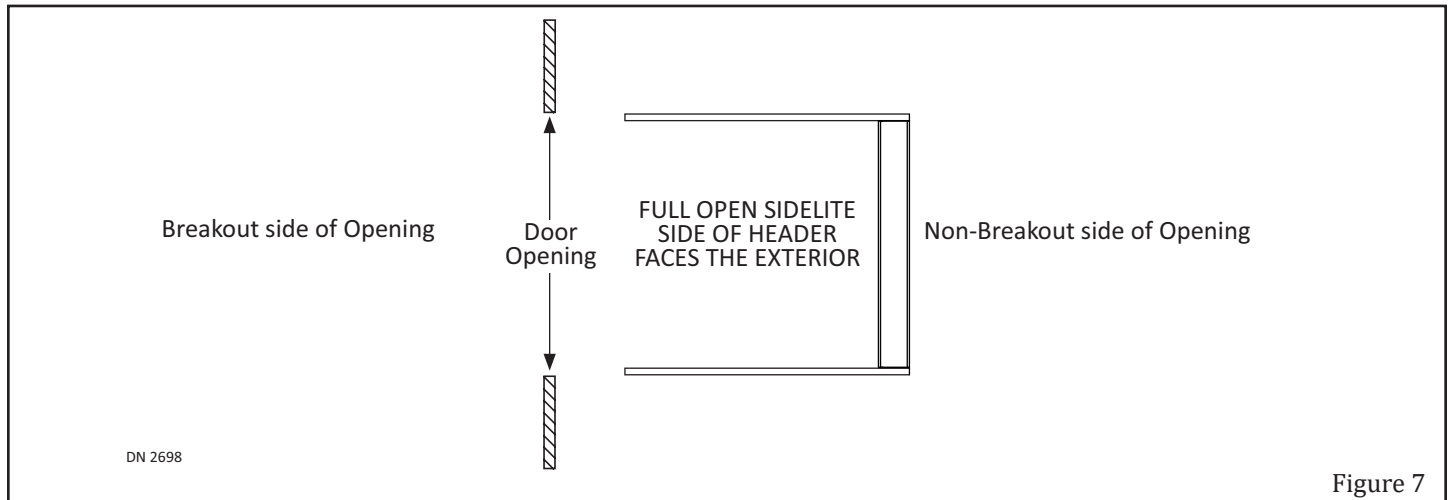
1. Secure the Header to each Jamb Tube with (8) 1/4-20 x .75 inch Screws.
 - a. If assembled correctly, the Jamb Tubes will approximately be 1-5/8 inches from the floor.



CHAPTER 8: INSTALL DOOR FRAME

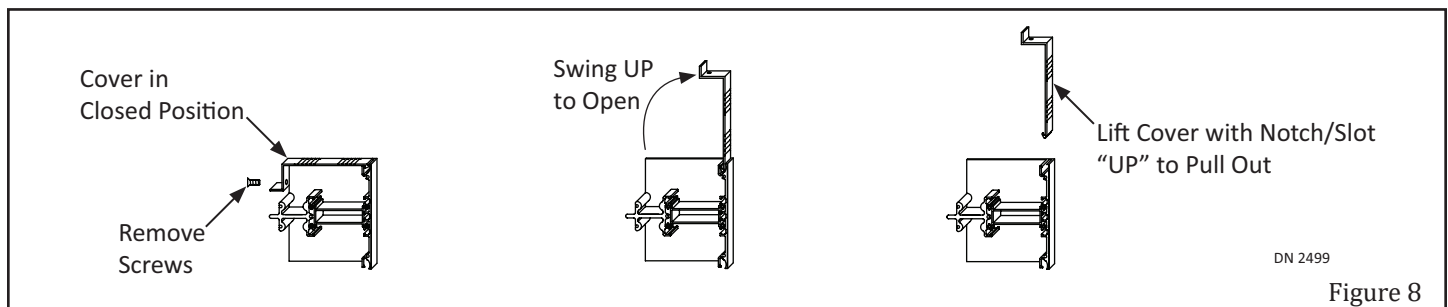
SECTION 8.1: Position the Door Frame

1. Orientate the Door Frame in relation to the building. Sidelite Side of Header must face the Breakout side of building.



SECTION 8.2: Remove Header Cover (2)

1. Go to the Header Cover. Remove (2) 10-24 x 0.625 inch Screws from the Bottom Lip.
2. Lift the Header Cover "Up" then pull it out.



SECTION 8.3: Insert Door Frame into Rough Opening

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

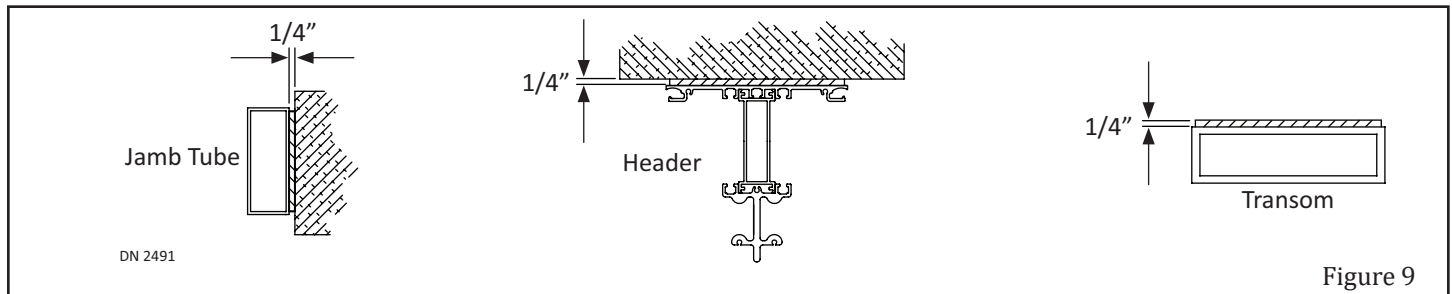


Figure 9

SECTION 8.4: Secure Door Frame with Anchors.

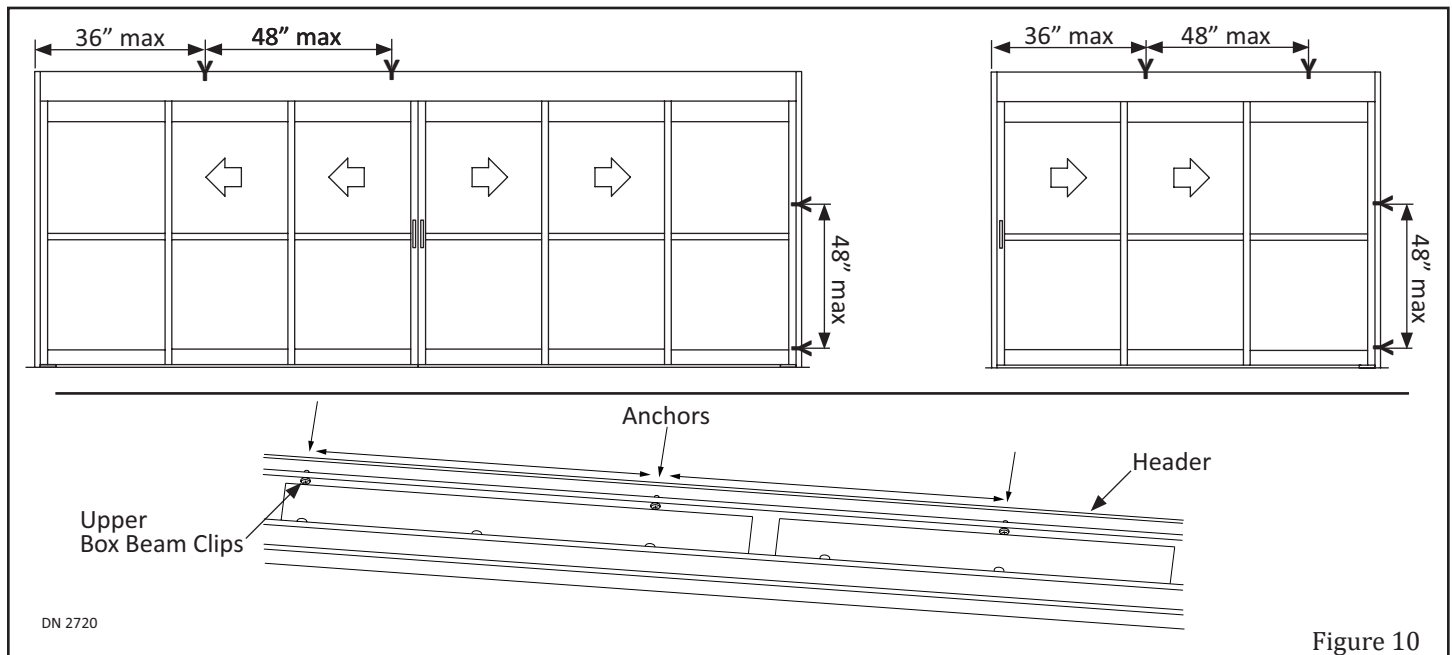


Figure 10

- ▶ Anchors are not provided by NABCO.
- ▶ Anchors must be appropriate for the type of structure being fastened to.
- ▶ Screw in anchors to secure the Frame (per anchor manufacturer's specifications).

Note:

- It is recommended to countersink holes as required to flush the surface.
- It is recommended to drill tap threads for 1/4 inch anchors in a steel or aluminum structure.
- Do not overtighten anchors to prevent deforming Jamb Tubes.

8.5.1 Jamb Tubes

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

8.5.2 Header

Note: Header anchors **must** be located next to upper Box Beam Clips (not between them).

Use 1/4 inch diameter anchors to secure header to building structure. First anchor must be within 36 inch from the end of the header. Maximum anchor spacing is 48 inch.

SECTION 8.5: Pull 120 VAC Wiring into Header

DANGER

Ensure Circuit Breaker is Shut OFF at the installation site.
Please refer to "CHAPTER 6: Shut OFF Circuit Breaker" on page 5.

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

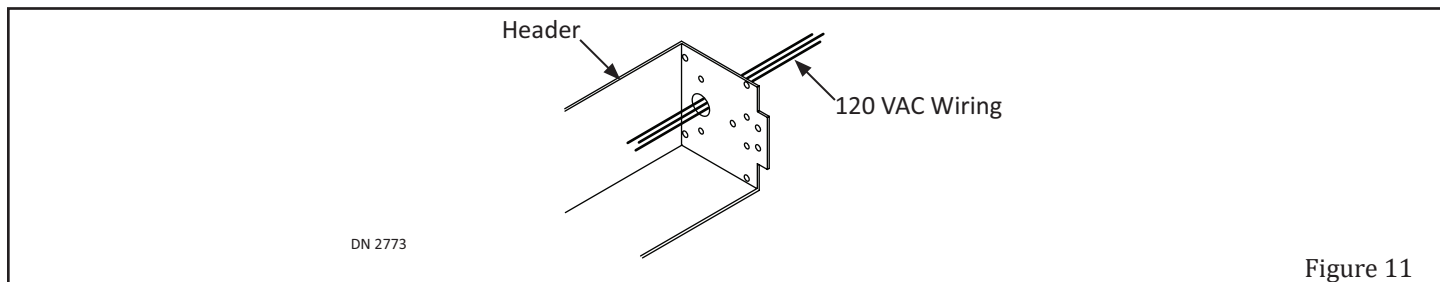


Figure 11

1. Go to the Header.
2. Insert all Incoming 120 VAC Power wires into the pre drilled Electric Service Access Hole located at the left or right side of Header End Cap.

CHAPTER 9: INSTRUCTION FOR INSTALLING SPACER AND BOTTOM GUIDE

1. Go to the Top of Strike Stile. Locate the predrilled screw holes.
2. Secure the Spacer to the Strike Stile with (2) 10-32 x 1/2 inch Screws.
3. Go to the Bottom of Strike Stile. Locate the predrilled screw holes.
4. Secure the Bottom Guide to the Strike Stile with (2) 1/4" Star Washers, and (2) 1/4 - 20 x 3/4 inch screws with a 7/16 inch Box Wrench.

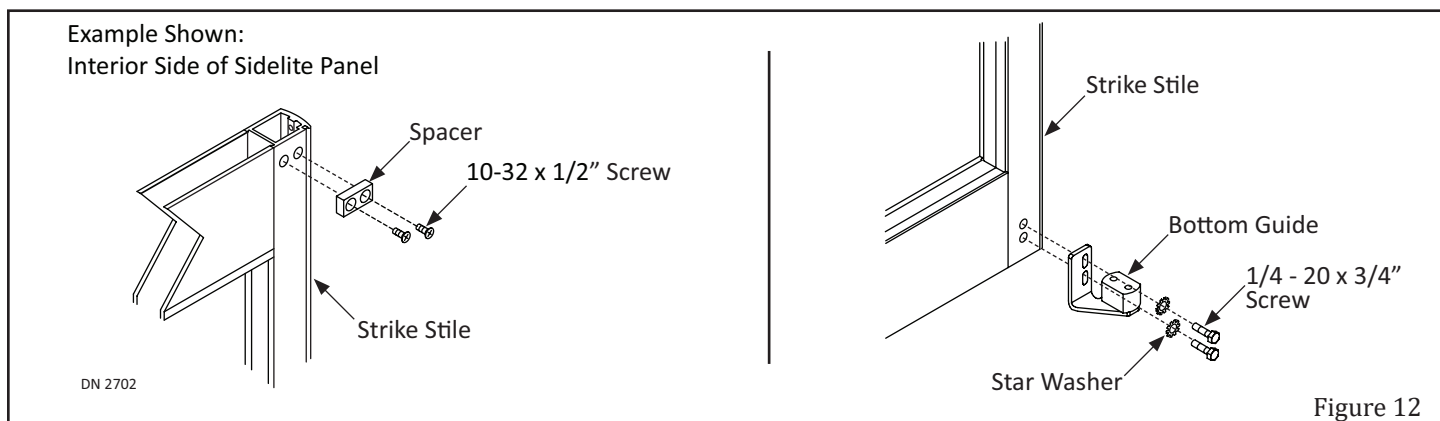


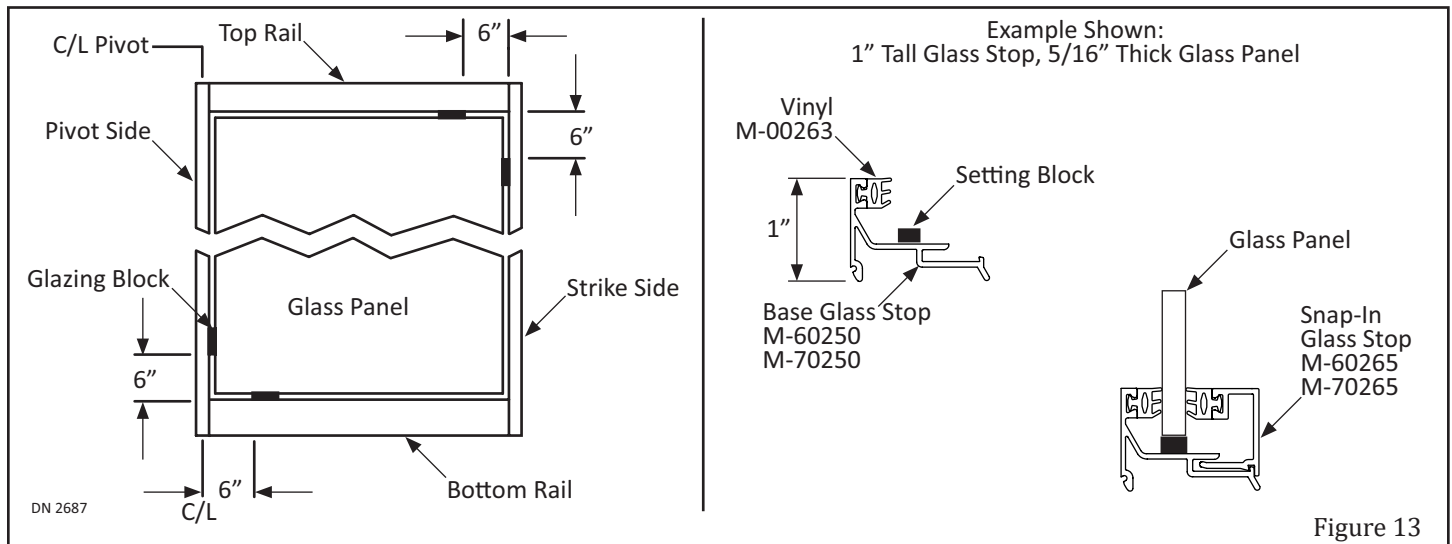
Figure 12

CHAPTER 10: INSTRUCTION FOR SETTING BLOCKS

Note: Setting Blocks are not provided by NABCO.

Note: Place Setting Blocks in the designated marked spots, only. Cross-Blocking helps direct glass weight away from the strike edge of the door, to prevent sagging and possibly dragging on the floor or threshold.

1. Ensure the Base Glass Stop (Pre-installed at the NABCO Factory) is free of debris and/or sharp objects.
2. Go to the STRIKE side of panel at the TOP.
 1. Measure (6) inches across from the Strike End of Top Rail, towards the Pivot Stile. Mark that spot.
 2. Measure (6) inches down from the Strike End of Top Rail towards the Bottom Rail. Mark that spot.
3. Go to the PIVOT side of panel at the BOTTOM.
 1. Measure (6) inches across from the Pivot End of Bottom Rail, towards the Strike Stile. Mark that spot.
 2. Measure (6) inches up from the Pivot End of Bottom Rail, towards the Top Rail. Mark that spot.
4. For each marked spot, place (1) Setting Block on top of the Base Glass Stops.



CHAPTER 11: INSTRUCTION FOR INSTALLING ELECTRIC GLASS

DANGER

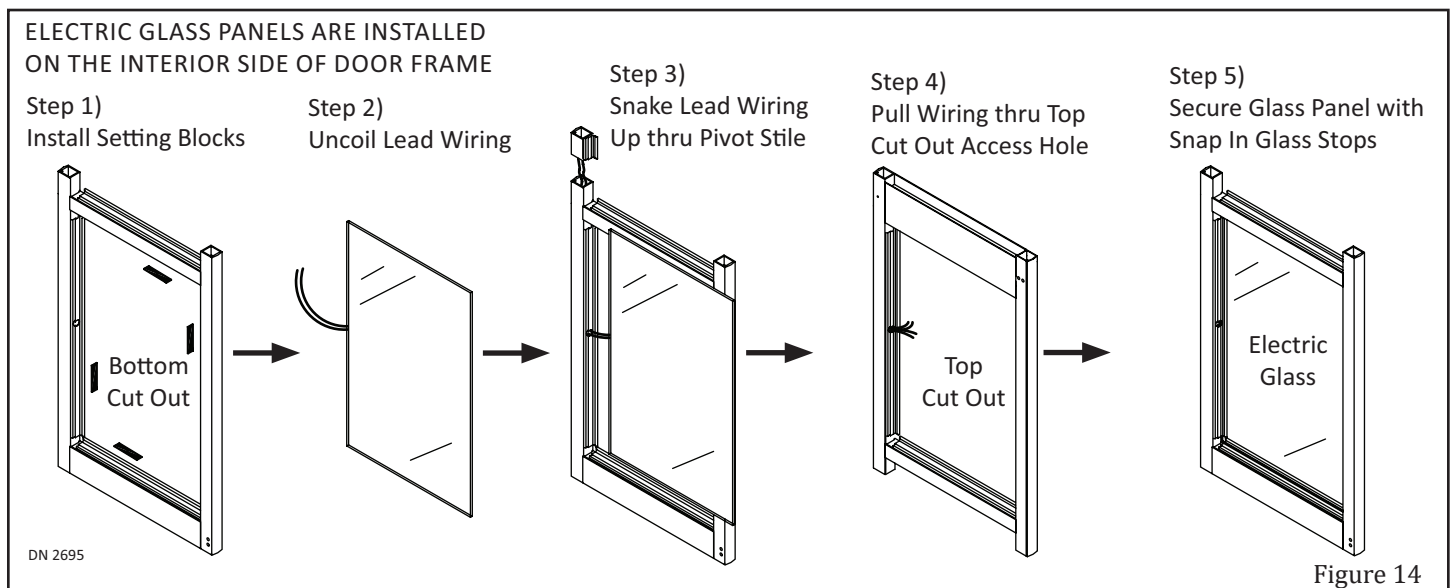
Ensure Circuit Breaker is Shut OFF at the installation site.
Please refer to "CHAPTER 6: Shut OFF Circuit Breaker" on page 5.

CAUTION

Use caution when moving and installing the electric glass panels. These panels are constructed with tempered glass. Any sharp objects that come in contact with the glass may cause the glass to break. NABCO Entrances, Inc. is not responsible for broken glass.

Attention: Per Chapter 24 of the International Building Code (IBC), all glass must comply with ANSI Standard Z97.1

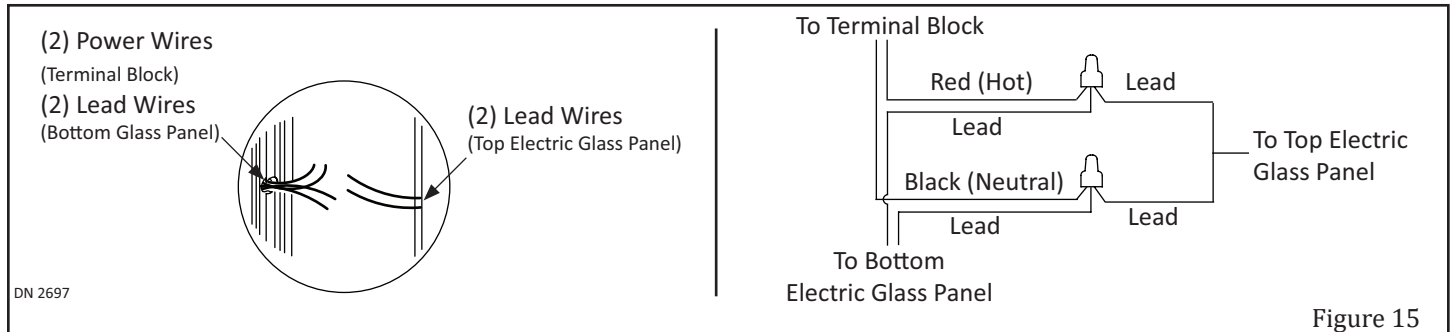
SECTION 11.1: Install Electric Glass to Bottom Cut Out



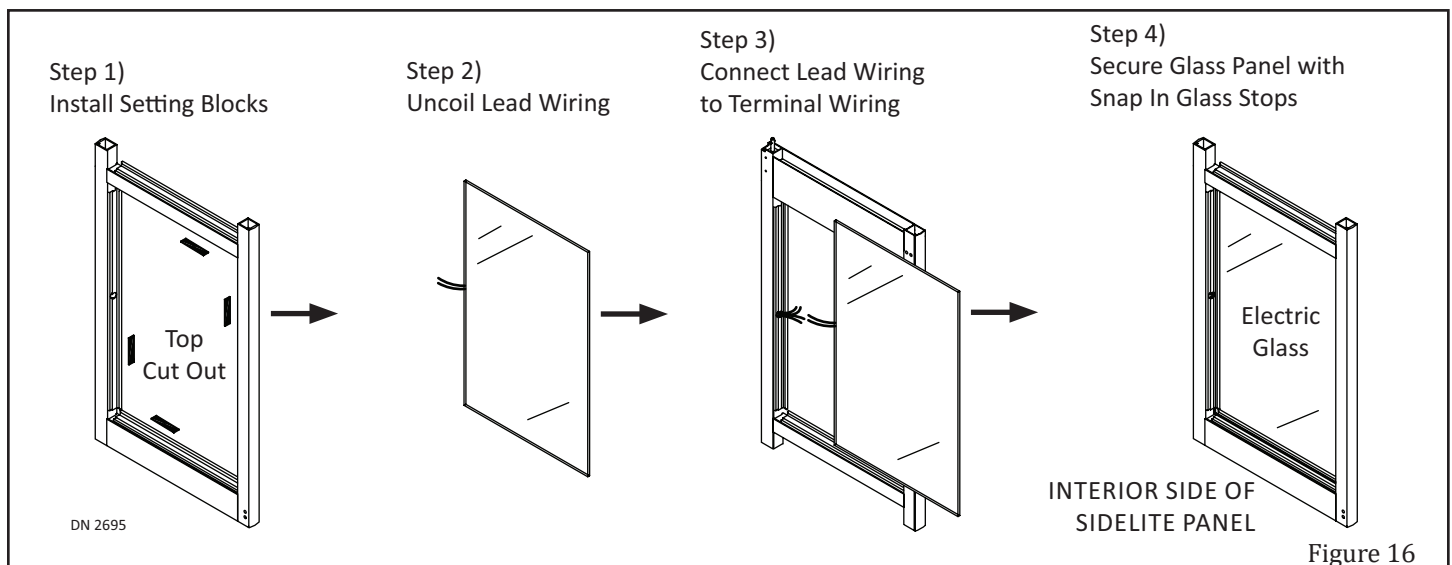
1. Go to the Bottom Cut Out of Sidelite Panel. Ensure the Base Glass Stop is free of debris and/or sharp objects.
 - a. Base Glass Stops are pre-installed at the NABCO Factory.
2. Install Setting Blocks.
3. Obtain (1) Electric Glass Panel for the Bottom Cut Out. Uncoil (2) Lead Wires protruding from the Pivot side.
4. Go to the Pivot Stile. Locate the Wiring Access Hole.

5. Insert the (2) Lead Wires into the Bottom Wiring Access Hole, then snake both Lead Wires "Up" through the Pivot Stile. Continue until the (2) Lead Wires can be pulled through the Top Wiring Access Hole.
 - a. Do Not pull wiring with a jerk.
6. Position the Electric Glass Panel on top of/between the Setting Blocks.
7. Shift the Electric Glass Panel until it is square.
 - a. For Door Panels that are not square or sag at the lead edge, increase the thickness of the Setting Block.
8. Secure the Electric Glass Panel to the Sidelite Panel with Snap-In Glass Stops.
9. It is recommended to Seal all (4) corners of the Electric Glass with a Clear Sealant.

SECTION 11.2: Install Electric Glass to Top Cut Out



1. Go to the Top Cut Out of Sidelite Panel. Ensure the Base Glass Stop is free of debris and/or sharp objects.
 - a. Base Glass Stops are pre-installed at the NABCO Factory.
2. Install Setting Blocks.
3. Go to the Pivot Stile. Locate the Wiring Access Hole.
4. Pull out (2) Power Wires, (1) Black wire and (1) Red wire, until (4) inches of wiring is exposed.
 - a. Do Not pull wiring with a jerk. Doing so may dislodge the other end of wiring.
 - b. If done correctly, (4) Wires will protrude from the Top Wiring Access Hole.
5. Obtain (1) Electric Glass Panel for the Top Cut Out. Uncoil (2) Lead Wires protruding from the Pivot side.
 - a. Lead Wires are approximately (4) inches long.
6. Connect the Lead Wiring to Power Wiring.
7. Gently push all wiring back into the Top Access Hole.



8. Position the Electric Glass Panel on top of/between the Setting Blocks.

9. Shift the Electric Glass Panel until it is square.
 - a. For Door Panels that are not square or sag at the lead edge, increase the thickness of the Setting Block.
10. Secure the Electric Glass Panel to the Sidelite Panel with Snap-In Glass Stops.
11. It is recommended to Seal all (4) corners of the Electric Glass with a Clear Sealant.

CHAPTER 12: INSTALL THE SIDELITE PANEL

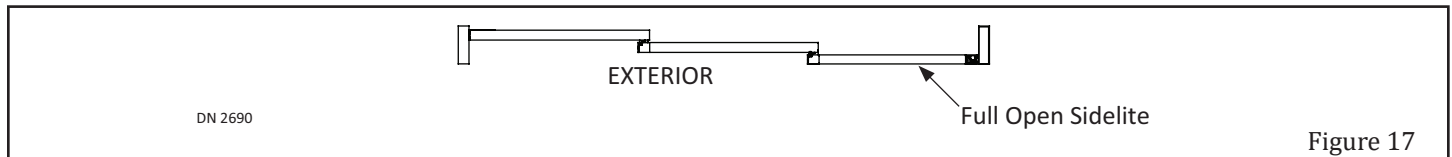


Figure 17

SECTION 12.1: Install the Bottom Pivot Bracket

Attention: Bottom Pivot must overhang the Pivot Jamb Tube $\frac{3}{8}$ inches (from Breakout Side of Door Opening).

1. Butt the Bottom Pivot Bracket against the Pivot Stile. Ensure it is square and level.
2. Go to the Interior Side of the Pivot Jamb Tube. On the Inside Face, measure ($\frac{3}{8}$) inch from the Interior Edge towards the center. Mark that spot with a horizontal line onto the Floor.
3. Go to the Breakout side of the Pivot Jamb Tube. From the Outside Face, measure ($\frac{3}{8}$) inch away from Jamb Tube. Mark that spot with a horizontal line onto the Floor.
 - a. The Bottom Pivot Bracket must overhang the Pivot Jamb Tube $\frac{3}{8}$ inches..
4. Place the Bottom Pivot Bracket between the marked Lines.
 - a. Ensure the Bottom Pivot Barrel is on the Breakout side of Door Opening.

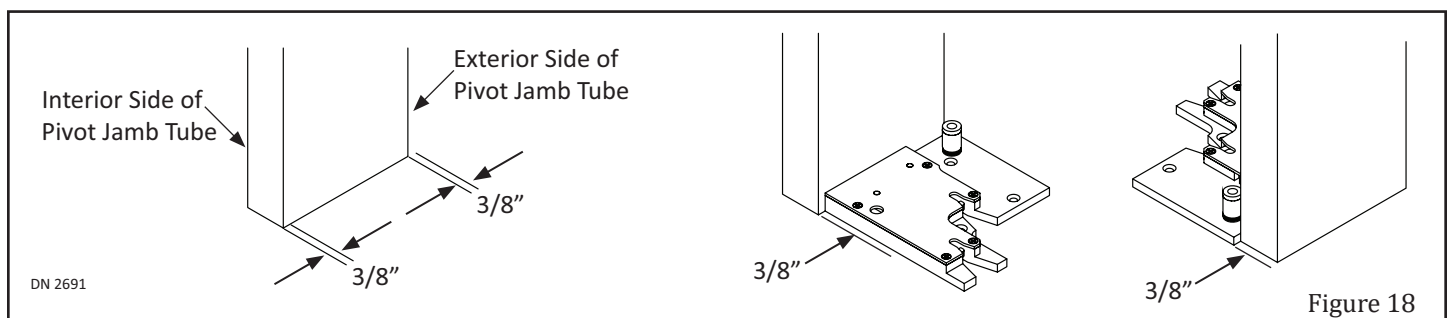


Figure 18

5. Measure the $\frac{3}{8}$ inch overhang to ensure accuracy.
6. Use the Bottom Pivot Bracket as a template to mark (4) Anchor holes.
7. With a Masonry drill bit, drill (4) $\frac{1}{4}$ inch screw holes into the floor at least 1-1/2 inches deep.
8. Insert (1) #16 x 1" Blue Anchor into each drilled hole.
9. Secure the Bottom Pivot Bracket to the Floor with (4) #14 x 1-1/2 inch Phillips Head Screws.
10. Cap the large Screw Hole (Interior side of Pivot Bracket) with (1) Plug.
11. Cap the Barrel with (1) Bushing.

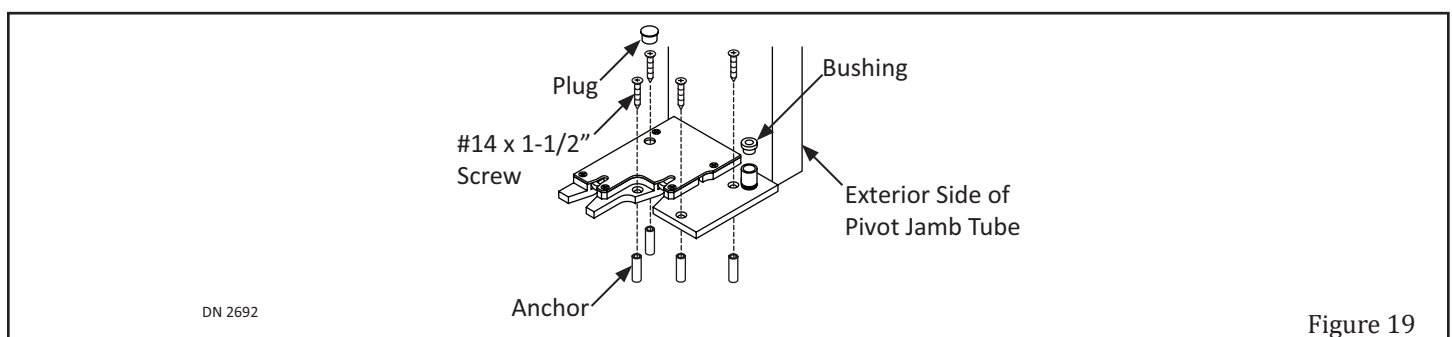


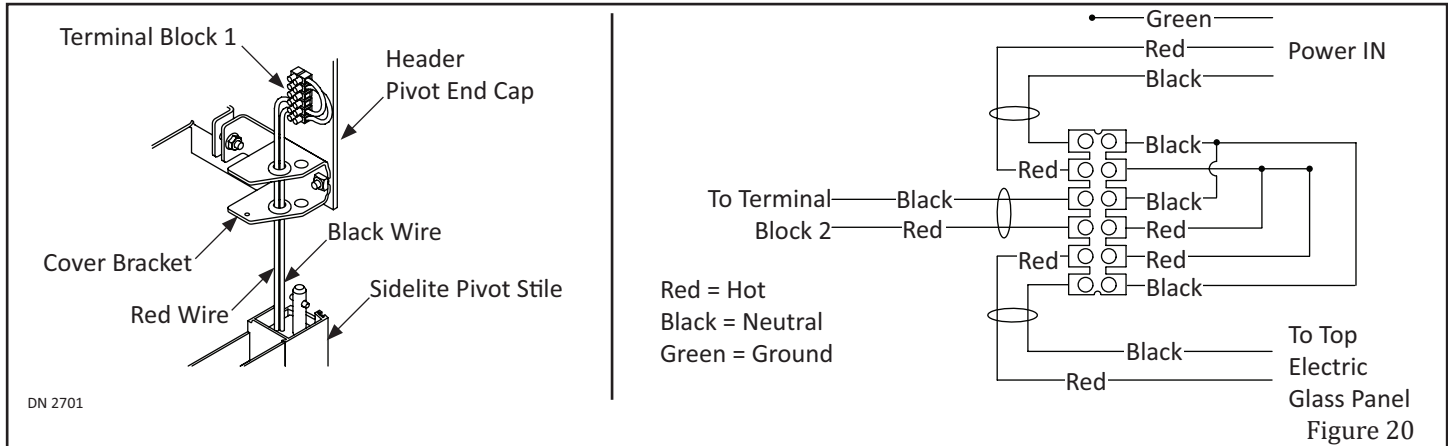
Figure 19

SECTION 12.2: Secure Sidelite Panel to the Top Pivot

DANGER

Ensure Circuit Breaker is Shut OFF at the installation site.
Please refer to "CHAPTER 6: Shut OFF Circuit Breaker" on page 5.

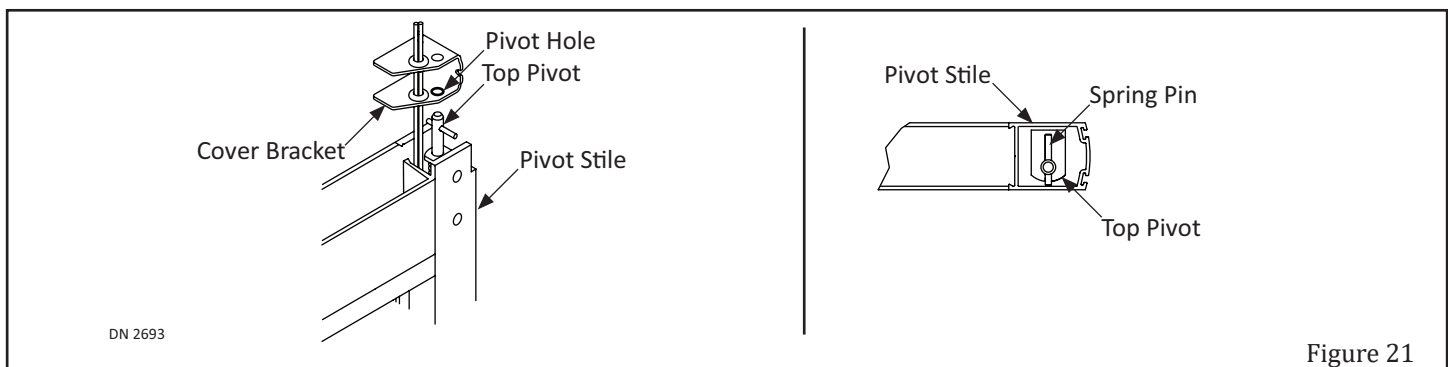
12.2.1 Connect Power Wiring to Large Terminal Block (1)



- Go to the top of Pivot Stile. Locate (2) Power Wires wrapped around the Top Pivot Bracket. Unwrap both wires.
 - (1) Black Wire and (1) Red Wire.
- Go to the Cover Bracket. Locate (2) access holes (one on top the other). From the Bottom of the Cover Bracket, insert the (2) Wires "UP" through each hole.
- Go to the Inside Face of the Pivot End Cap. Locate Terminal Block 1.
- Insert (1) Black Wire into Terminal 1 and (1) Red Wire into Terminal 2.
 - Ensure both Power Wires are connected to the same color as the preinstalled Jumper Wires located on the other side of the Large Terminal Block.

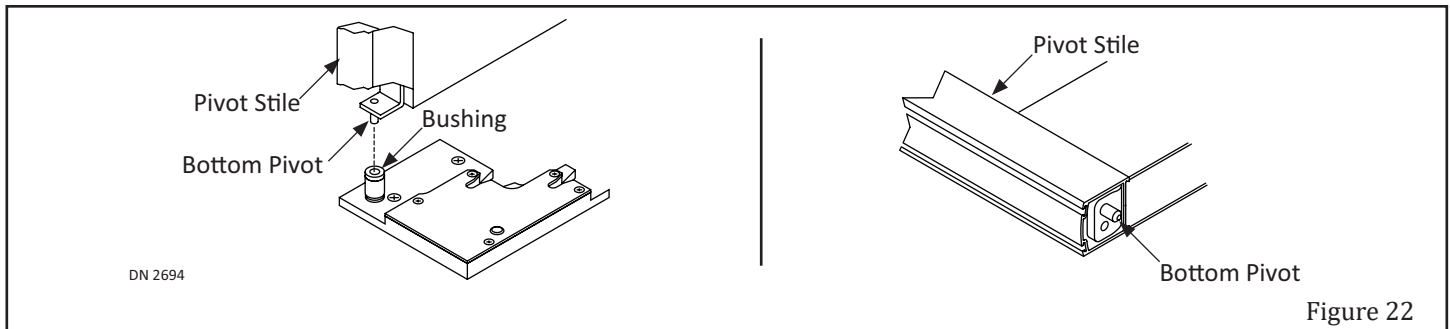
12.2.2 Secure Sidelite Panel to the Header Cover Bracket

- Go to the Top Pivot located inside the Pivot Stile. Press the Spring Pin down until the Top Pivot can clear the Header.
- Go to the bottom of the Header Cover Bracket. Align the Top Pivot to the Pivot Hole.
- Release the Spring Pin to snap the Top Pivot into the Pivot Hole. Ensure the Top Pivot fully engages the Hole.
 - If necessary, use a flathead screwdriver to lift up on the Spring pin until the Pivot Pin is fully seated within the hole.
 - Ensure not to pinch the wiring connected to the Terminal Block; (1) Black Wire and (1) Red Wire.



SECTION 12.3: Secure Sidelite Panel to the Bottom Pivot

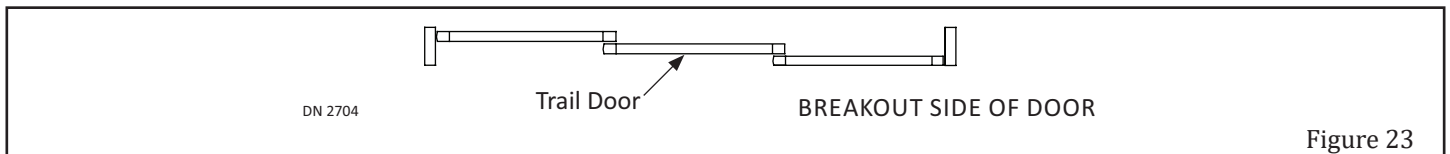
- Go underneath the Sidelite Pivot Stile. Locate the Bottom Pivot.
- Insert the Bottom Pivot into the Bushing until it is fully inserted.



SECTION 12.4: Install the Spacer and Bottom Guide

1. On the Interior side of Door Frame. Install (1) Spacer and (1) Bottom Guide.

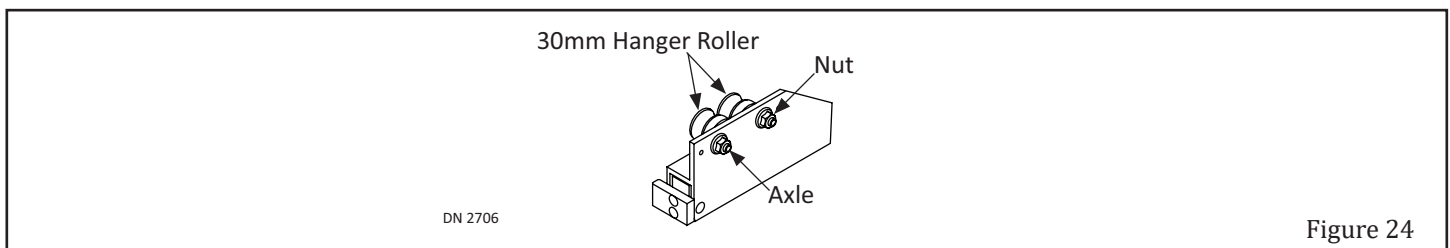
CHAPTER 13: INSTALL THE TRAIL DOOR



SECTION 13.1: Lift Trail Door onto Track

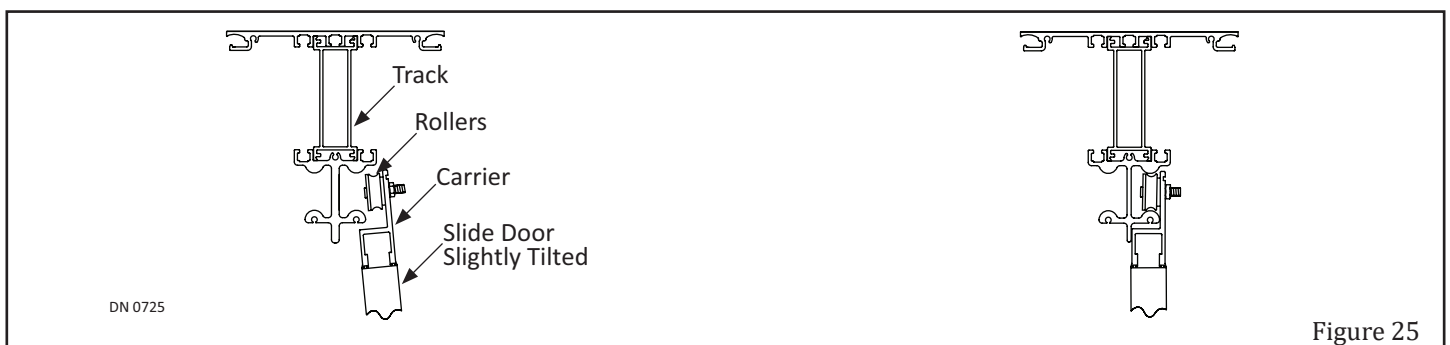
1. Locate (4) Hanger Rollers that are preinstalled onto the Trail Door Carrier.
2. Loosen (1) 5/16-18 Whiz Lock Nut on each Roller by inserting (1) 5/32" Allen wrench into the exposed end of the Roller Axle.
 - a. Hold the 5/32 inch Allen wrench in place to keep the Roller Axle stationary. At the same time, loosen (1) 5/16-18 Whiz Lock nut with a 1/2 inch Open End Wrench.

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



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

3. Go to the Breakout Side of Door Frame.
4. To make it easier for rollers to "catch onto the track", slightly tilt and lift the Trail Door into the Header, and onto the Track.

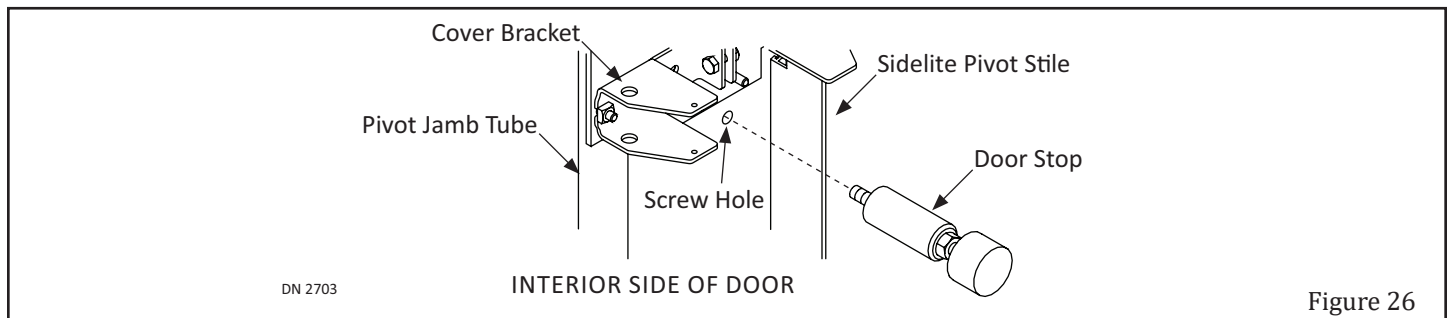


5. Slide the Trail Door towards the Pivot Jamb Tube until the Bottom Rail engages with the Bottom Guide (extending from the Bottom Rail of the Sidelite Panel).
 - a. The Bottom Guide is used to keep the Trail Door from swaying inward/outward.

SECTION 13.2: Install the Trail Door Stop

Attention: Do Not adjust the Door Stop until the Telescopic Unit has been completely installed/adjusted.

1. On the Non-Breakout side of Door Frame, go to the inside face of Pivot Jamb Tube.
2. Go underneath the Header Cover Bracket, closest to the Sidelite Panel. Locate (1) predrilled screw hole.
 - a. The Door Stop is used to stop the Trail Door from hitting the back of the Bottom Pivot Slot.
3. Secure the Door Stop to the Jamb Tube by rotating Clockwise.
 - a. Do Not adjust the Door Stop until the Telescopic Slide Door unit has been completely installed/adjusted.

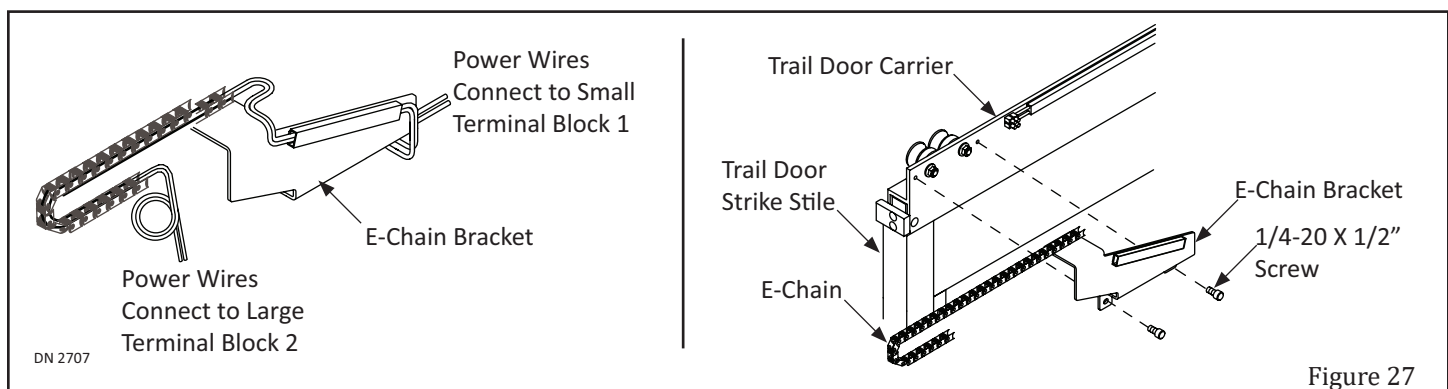


SECTION 13.3: Install the Spacer and Bottom Guide

1. Go to Interior side of Door Frame. Install (1) Spacer and (1) Bottom Guide. For detailed instructions, please refer to "CHAPTER 9: Instruction for Installing Spacer and Bottom Guide" on page 9.

SECTION 13.4: Install the E-Chain Bracket

1. Obtain (1) E-Chain Kit that includes: (1) E-Chain Bracket plus (1) Red Power Wire and (1) Black Power Wire.
2. Go to the Strike Side of Carrier located on the Breakout side of Trail Door.
3. Align the E-Chain Bracket to (2) Predrilled screw holes located on the Carrier.
4. Secure the lower portion of the E-Chain Bracket to the Carrier with (2) 1/4-20 x 1/2 inch Screws.



SECTION 13.5: Connect Power Wiring to Terminal Blocks

1. Go to the E-Chain. Locate the protruding Power Wiring: (1) Red Wire and (1) Black wire.
2. Run the wiring "Under/Behind" the E-Chain, then "UP" into the Access Hole located on the Box Beam.
 - a. Do Not run wires over the E-Chain (outside face). Doing so will cause the Trail Door to not operate properly.
3. Secure the E-Chain to the Box Beam with (2) 1/4-20 x 1/2" Screws.
4. Go to the E-Chain Bracket. Locate the protruding Power Wiring: (1) Red Wire and (1) Black wire.
5. Connect to the Small Terminal Bracket: (1) Red Wire to Terminal (1), then (1) Black wire to Terminal (2).
 - a. Ensure each Power Wire is connected to the same Terminal as the preinstalled Jumper Wire (red/red; black/black).

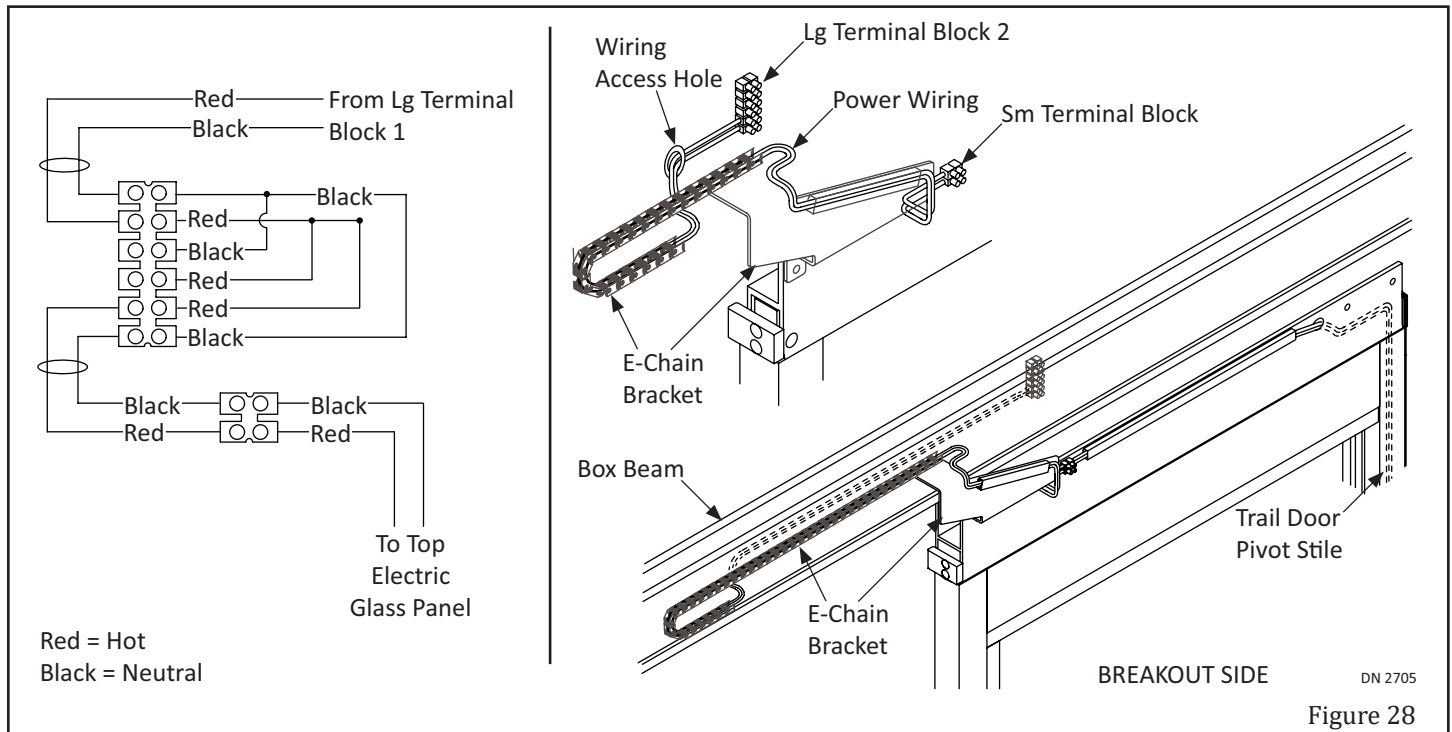


Figure 28

6. Go to the other side of the Box Beam. Locate the Large Terminal Block (2).
7. Connect (1) Black Wire to Terminal 1. Connect (1) Red wire to Terminal (2).
 - a. Do Not pull wiring with a jerk.
 - b. Ensure each Power Wire is connected to the same Terminal as the preinstalled Jumper Wire (red/red; black/black).

CHAPTER 14: INSTALL THE LEAD DOOR

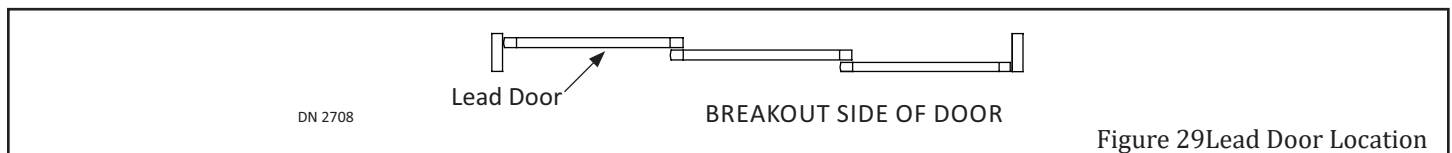


Figure 29 Lead Door Location

SECTION 14.1: Lift Lead Door onto Track

CAUTION

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

CAUTION

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

1. Go to the Carrier on top of the Lead Door.
2. Loosen (1) 5/16-18 Whiz Lock Nut on each Roller by inserting (1) 5/32" Allen wrench into the exposed end of a Roller Axle.
3. Hold the 5/32 inch Allen wrench in place to keep the Roller Axle stationary. At the same time, loosen (1) 5/16-18 Whiz Lock nut with a 1/2 inch Open End Wrench.

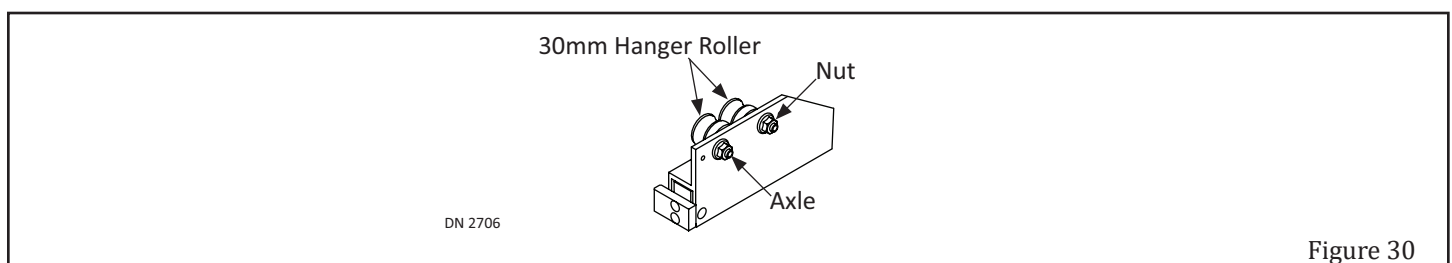


Figure 30

4. Go to the Interior Side of Door Frame.
5. To make it easier for rollers to “catch onto the track”, slightly tilt and lift the Lead Door into the Header, and onto the Track.
6. Tighten (1) 5/16-18 Whiz Lock Nut on each Roller.

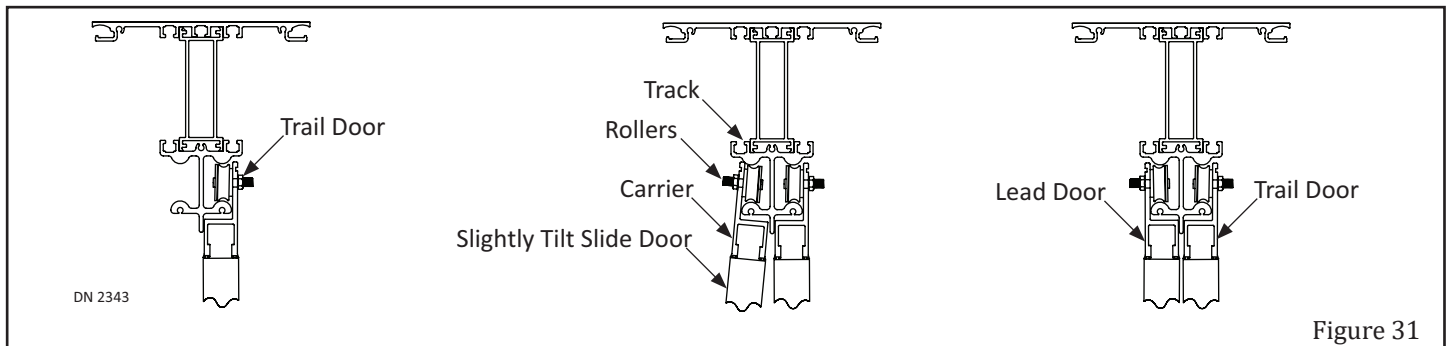


Figure 31

SECTION 14.2: Install the Lead Door Stop

1. Go to the Pivot Jamb Tube on the Interior side of Door Frame. Locate (1) predrilled screw hole next to the Trail Door Stop.
2. Secure the Door Stop to the Pivot Jamb Tube by rotating clockwise.
 - a. The Door Stop is used to stop the Lead Door from hitting the back face of the Bottom Pivot Slot.
 - b. Do Not adjust the Door Stop until the Telescopic Unit has been completely installed.

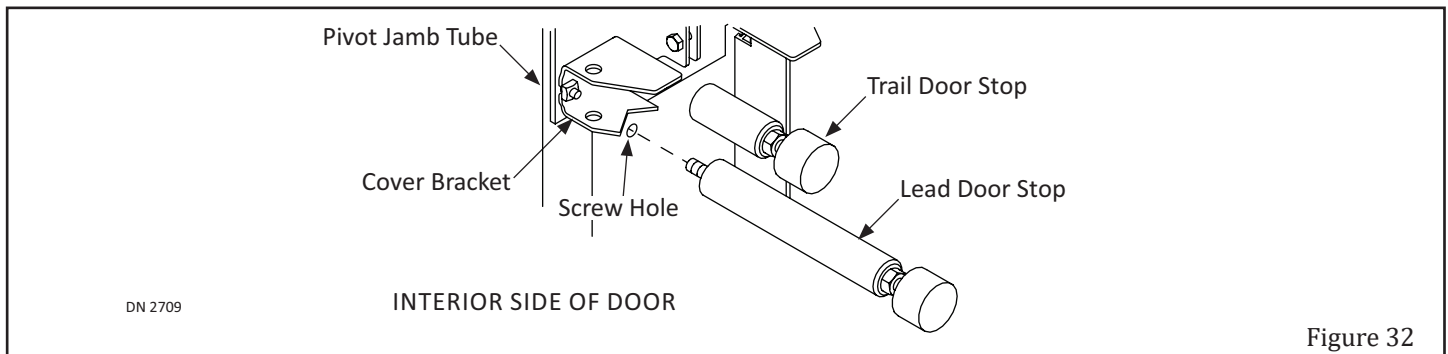


Figure 32

SECTION 14.3: Install the E-Chain Bracket

1. Obtain (1) E-Chain Kit that includes: (1) E-Chain Bracket plus (1) Red Power Wire and (1) Black Power Wire.
2. Go to the Interior side of Lead Door. Align the E-Chain Bracket to (2) Predrilled screw holes located in Middle of Carrier.
3. Secure the Bracket to the Carrier with (2) 1/4-20 x 1/2 inch Screws.

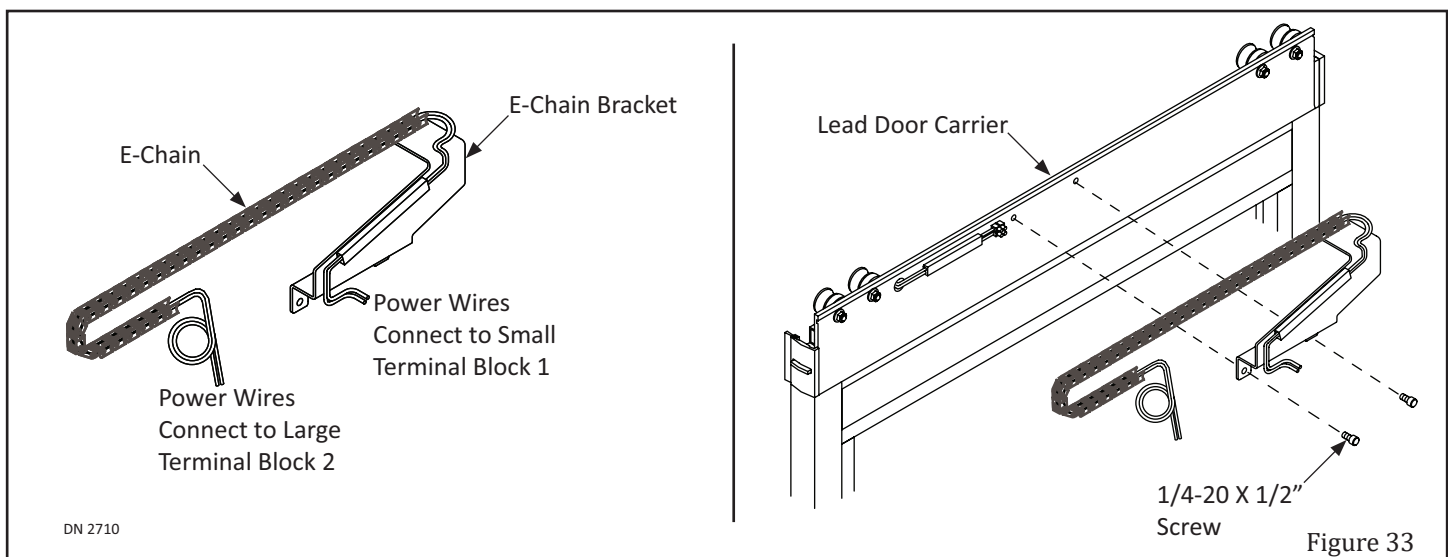
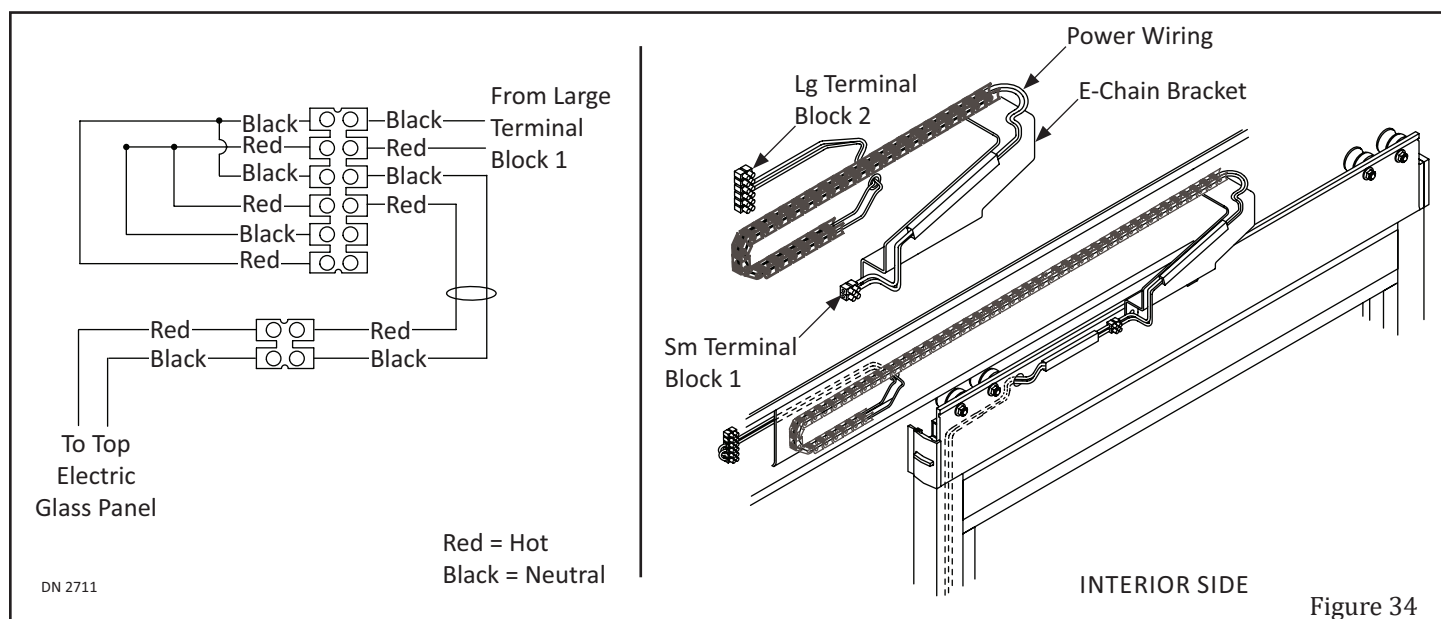
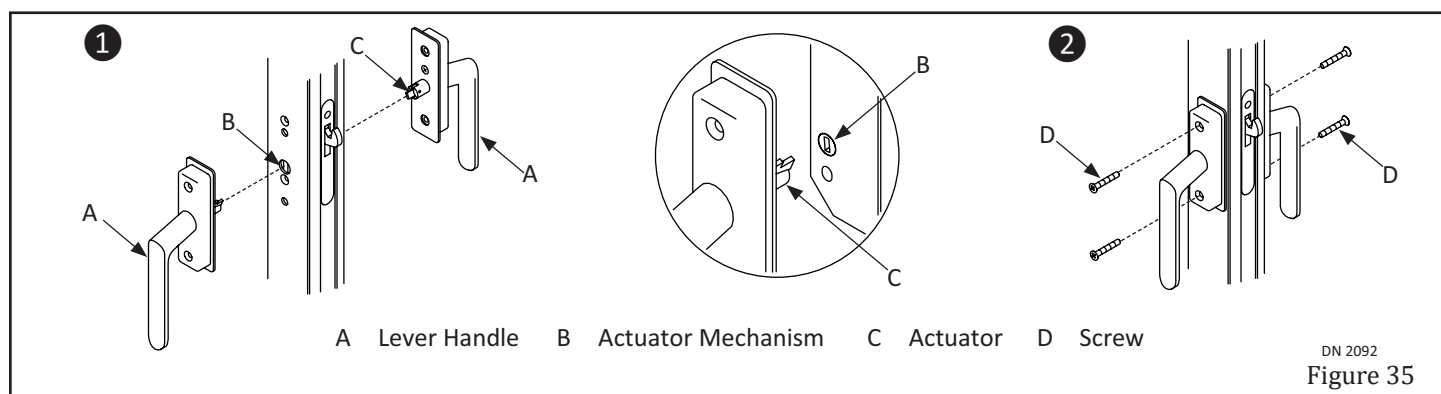


Figure 33

SECTION 14.4: Connect Power Wiring to Terminal Blocks

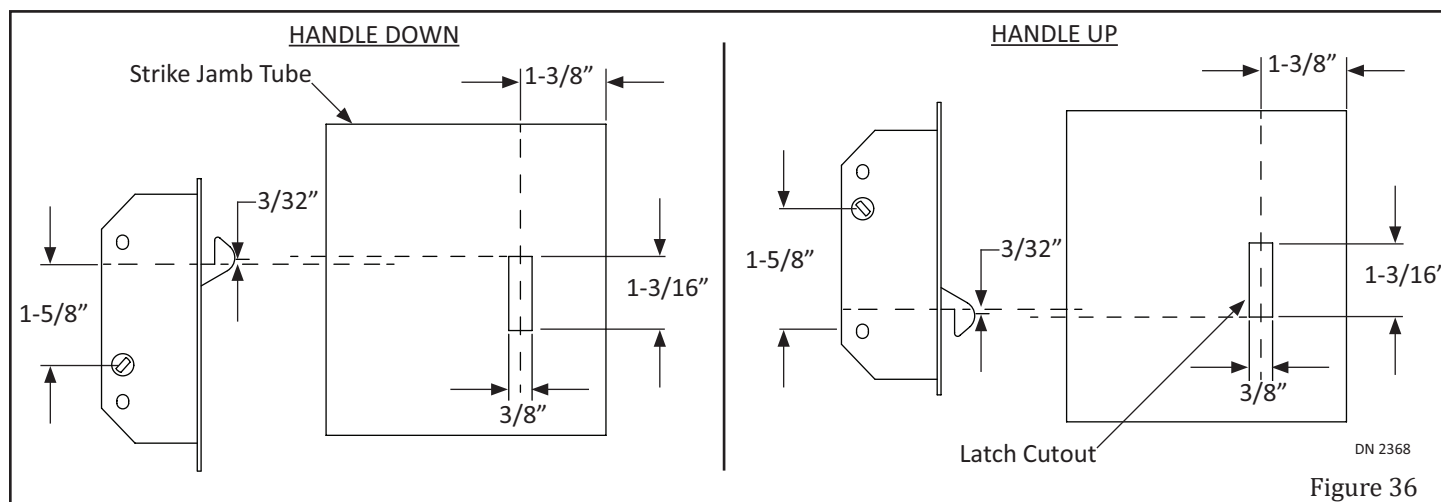


SECTION 14.5: Install the Latch Handle

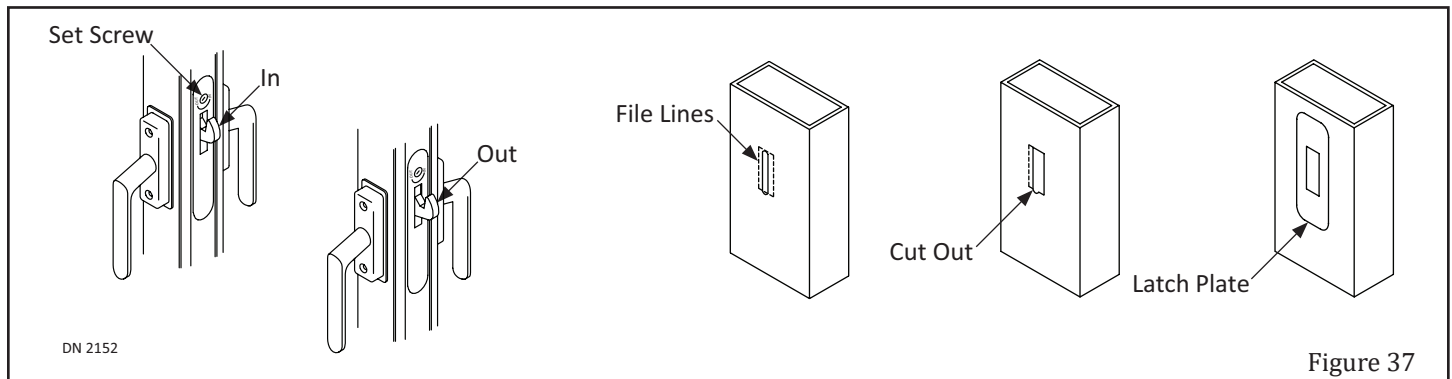


14.5.1 Create Cutout for Latch

Attention: Adjust Swing Door properly before cutting the Strike Jamb Tube for Latch Handle V-00226 / V-70226.



1. Ensure the Lead Door was adjusted -or- is the proper height. Fully close the Lead Door.
2. Ensure the cutout pattern is in the correct location, both vertically and horizontally.
3. Measure and mark the Strike Jamb Tube for cutout.



14.5.2 Adjust the Latch

1. Go to the Latch located on the Strike Side of Door.
2. Directly above the Latch is a Set Screw. With a Flat Head Screwdriver, turn the Set Screw:
 - ▶ Clockwise to move the Lever Out
 - ▶ Counterclockwise to move the Lever In

14.5.3 Enlarge the Lock Cutout

1. File the SIDE of Lock Cutout as needed. Do Not file the top of Cutout.
 - a. The width of Cutout must not be wider than .4 inches.
2. Remove protective paper from the back of Latch Plate. Adhere the Latch Plate onto the Jamb Tube.

CHAPTER 15: GENERAL HEADER WIRING

CAUTION

Keep all incoming 120 VAC wiring separate from low voltage wiring within Header.

SECTION 15.1: Manual Slide Doors

1. Determine correct supply voltage is 115 VAC $\pm$ 10%.
2. Insert all incoming 120 VAC power wires into the access hole located on Jamb Tube. It is recommended to house all wires into an Electrical Conduit.

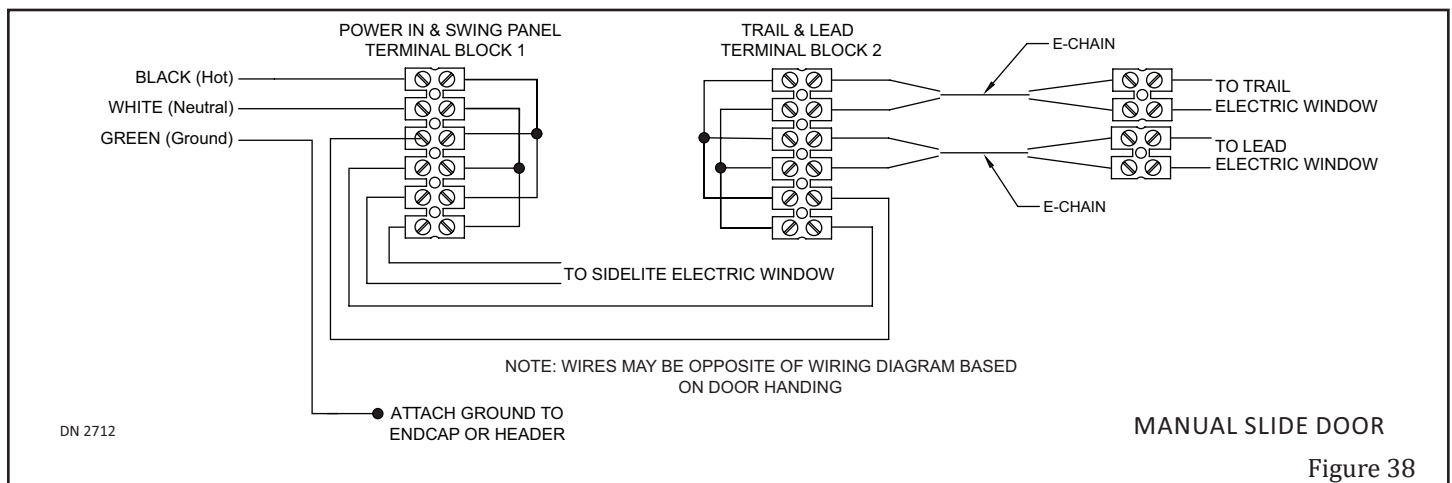


Figure 38

CHAPTER 16: INSTALL WEATHERING

SECTION 16.1: Bottom Sweep

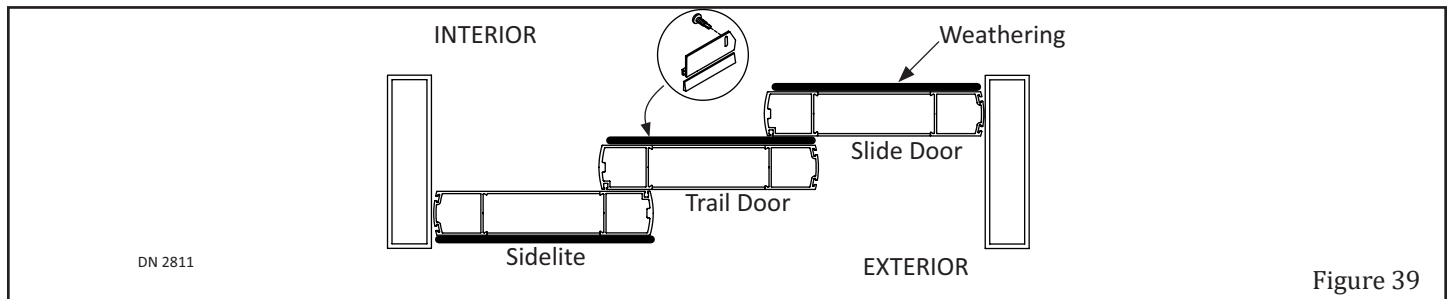


Figure 39

1. Slide (1) Brush into the straight Weathering Holder.
2. Secure the Metal Holder to Bottom Rail of Slide door with #6 x 1/2 inch self tapping screws.
3. Breakout the Swing Sidelite.
4. Slide (1) Brush into the straight Weathering Holder.
5. Secure the Straight Weathering across the Bottom Rail of the Slide Door with #6 x 1/2 inch self tapping screws.

SECTION 16.2: Door Frame

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).

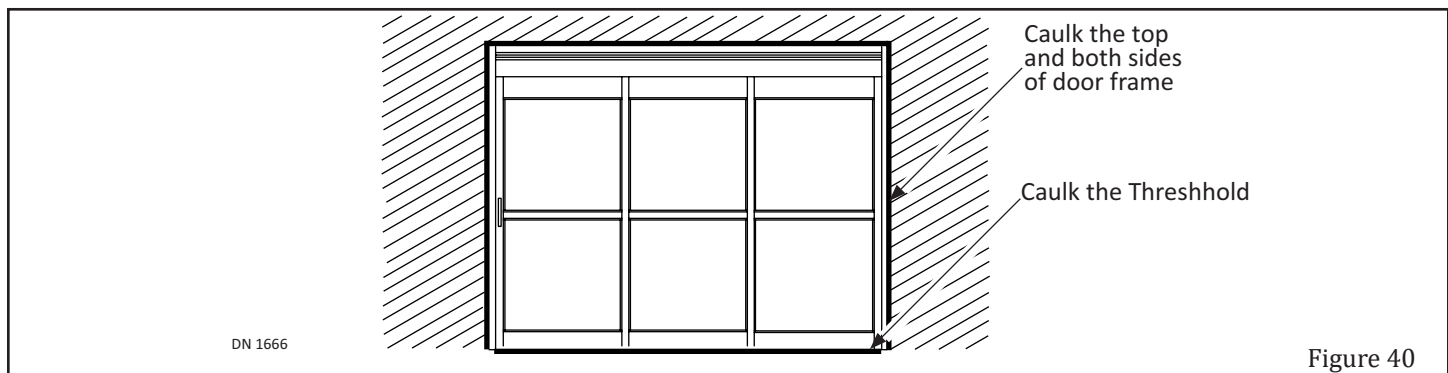


Figure 40

CHAPTER 17: ADJUSTMENTS

SECTION 17.1: Adjust Preload

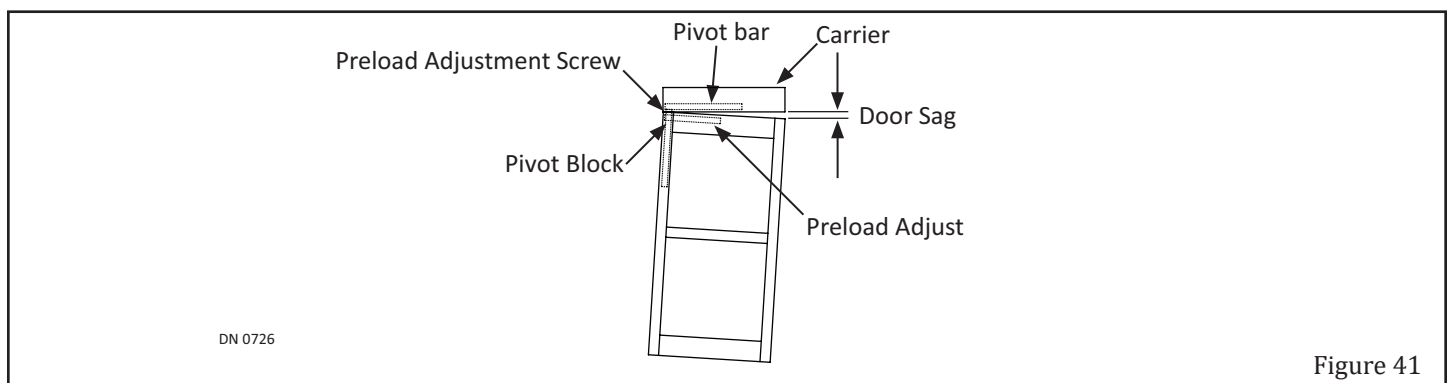


Figure 41

Attention: Glass must be installed before adjusting Preload.

1. Support the weight of Slide Door, then Breakout Slide door approximately 25 degrees.

2. Check for door sag. The Slide door should latch without having to be manually lifted.
3. Go to the Preload Block located inside the Top Rail. Loosen (2) 1/4-20 x 1 inch Hex Screws used to secure the Carrier Pivot Assembly to the Top Door Web.
4. Go to the top of Pivot Stile. Locate (1) 5/16-24 x 1/2 inch Set Screw.

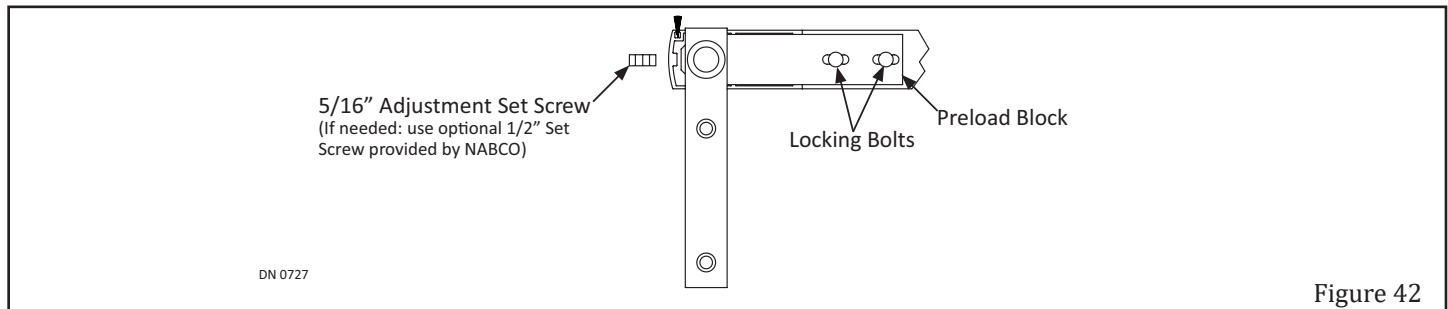


Figure 42

5. Adjust Door Sag by tightening the Set Screw with a 7/32 inch Allen Wrench.
 - a. Tightening the Set Screw will raise the Strike Side of the Door.
 - b. Do Not allow the Adjustment Set Screw to protrude more than 7/32 inch past the end of stile.
 - c. Substitute the 5/8 inch Set Screw with the optional 1/2 inch Set Screw supplied by NABCO as needed.

SECTION 17.2: Adjust Horizontal Position of Carrier

Attention: Adjust Preload before adjusting position of Carrier.

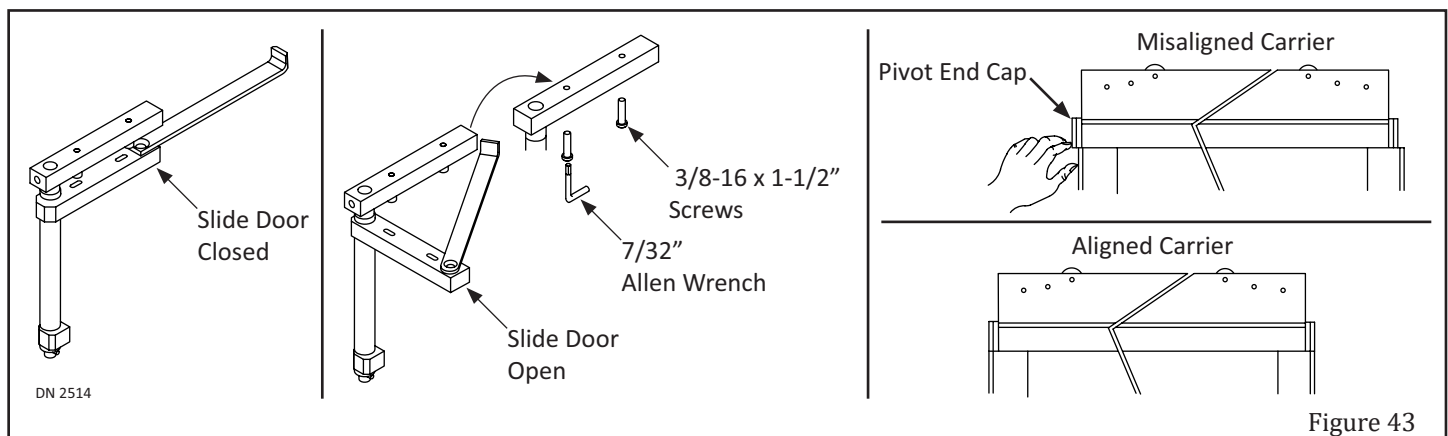


Figure 43

1. Break Open the Slide Door. Locate the Pivot Assembly inside the Carrier.
2. Loosen (2) 3/8-16 x 1-1/2 inch Screws securing the Pivot Assembly to the Carrier.
3. Slide the Carrier Bar to the left or right, until the Slide Door is aligned to the Carrier. Tighten (2) 3/8-16 x 1-1/2 inch Screws.

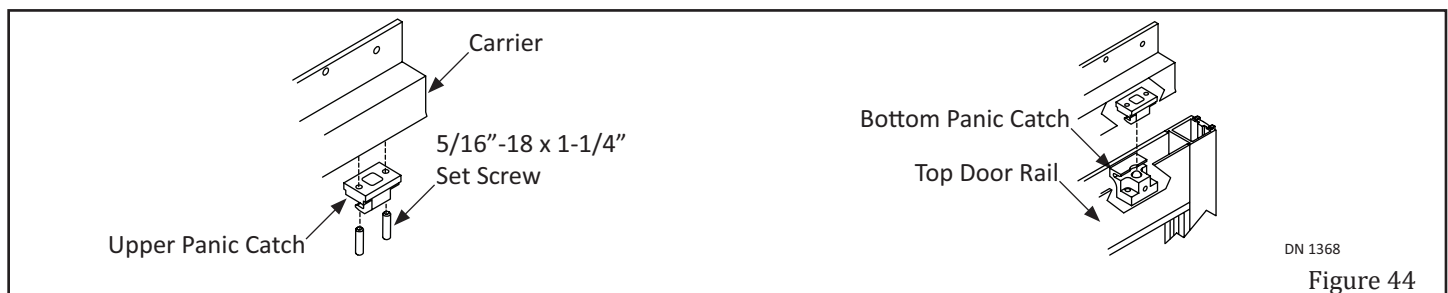
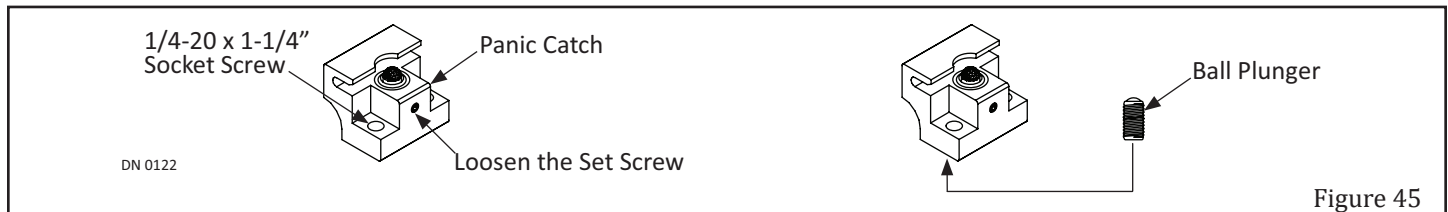


Figure 44

4. Verify that the Upper Panic Catch inside the Carrier is still aligned to the Lower Panic Catch inside the Door Web. If an adjustment is deemed necessary:
 1. Go inside the Carrier. Locate the Upper Panic Catch. Loosen (2) 5/16-18 x 1.25" Set Screws.
 2. Slide the Upper Panic Catch to the right or to the left until it is aligned to the Lower Panic Catch. Tighten Set Screws.

SECTION 17.3: Adjust the Ball Plunger

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

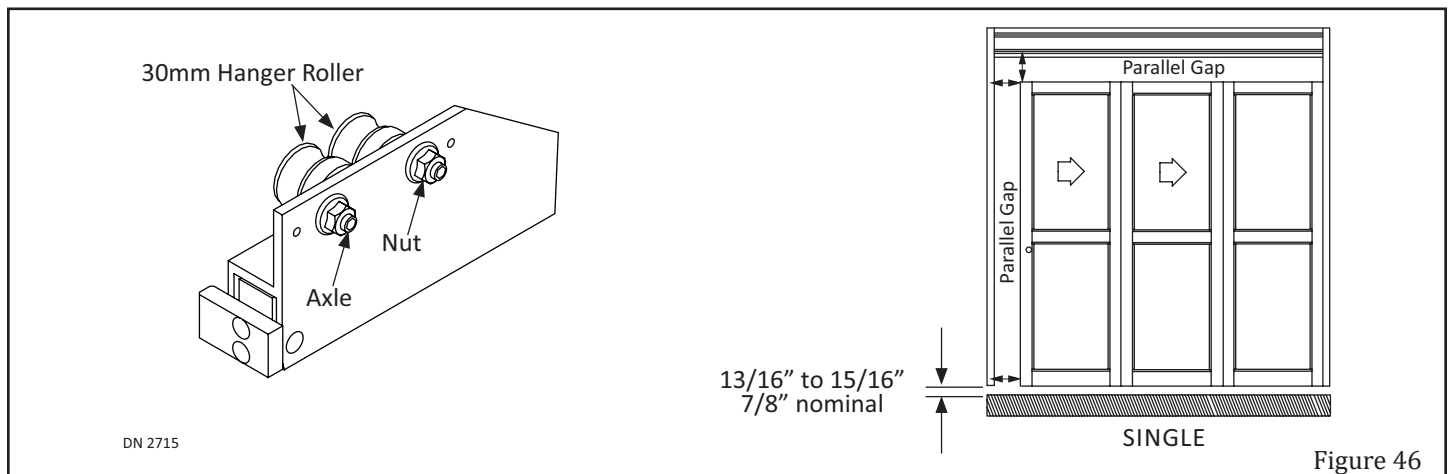


SECTION 17.4: Adjust Door Height

CAUTION

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

1. Go to the Carrier on top of the Lead Door.
2. Loosen (1) 5/16-18 Lock Nut on each Roller by inserting (1) 5/32" Allen wrench into the exposed end of a Roller Axle.
3. Hold the 5/32 inch Allen wrench in place to keep the Roller Axle stationary. At the same time, loosen (1) 5/16-18 Lock Nut with a 1/2 inch Open End Wrench.
4. Raise or lower the Slide door by turning the Axle of the Hanger Roller clockwise with a 15/16" Open End Wrench. The appropriate gap between Bottom Rail and floor is between (13/16 inch to 15/16 inch) with the nominal gap being 7/8 inch.
5. Ensure the Leading Edge between (Slide doors/Jamb Tubes), and (Doors/Header), are parallel.
6. Tighten the 5/16-18 Lock Nuts.

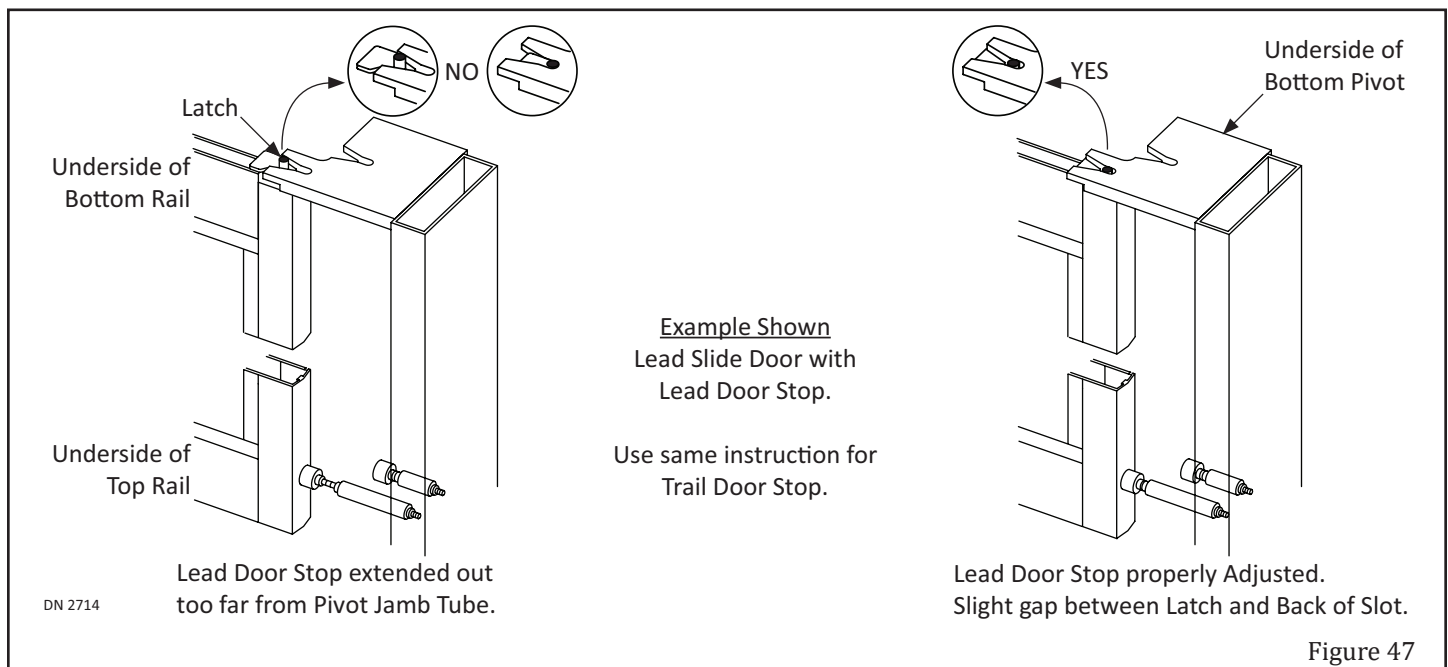


SECTION 17.5: Adjust the Door Stop

Attention: The following Instructions are the same for both the Lead Door and the Trail Door.

1. Go to the Slide Door. Locate (1) Pivot protruding underneath the Pivot Stile.
2. Close the Slide Door so the Pivot can slide into Slot (1) or (2).
 - a. (2) Slots are cut into the Bottom Pivot: (1) for Lead Door; (1) for Trail Door.
3. Stop closing the Slide Door just before the Pivot butts up against the back face of Slot (1) or (2).
 - a. If done correctly, a nominal gap will exist between the Pivot and the back face of the Slot.
4. Adjust the Door Stop according to where the Slide Door stops closing.

5. Go to the Door Stop. Locate (2) Lock Nuts between the Stop and Rod.
6. Shorten or elongate the Door Stop accordingly.
7. Close and then open the Slide Door to ensure the Door Stop, stops the Pivot from butting up against the back face of Slot.



CHAPTER 18: TEST BREAKOUT

1. Manually slide the Lead Door and the Trail Door until they are Fully Open.
 - a. Failure to fully open the both Door Panels can/will cause damage to the Slide Door Unit.
2. Breakout the Slide Door Panels.

CHAPTER 19: SLIDE DOOR SAFETY CHECK

1. Ensure Header Cover has been replaced and properly secured with (2) 10-24 x 0.625 inch screws.
2. Ensure all other hardware and/or components are properly secured.
3. Ensure the Power Breaker is switched ON. Do not switch Power Breaker ON and OFF too quickly.
4. Check the motion of the Slide door. Slide door should slide freely.
5. Ensure Full Open Sidelite doors are fully closed. Failure to do so, will disrupt proper door operation
 - a. In the event a Sidelite is ajar, swing open the Sidelite about 2 feet, and then fully close it.
6. Check for proper door operation.
7. Clean the doors, header, and frame.
8. Clean up the work area and floor area. Floor area should be clean with no loose parts that might cause user to trip or fall.