



**NAX GT-9000 Series Hermetic Slide Door
Installation Manual **with Opus Control****
P/N C-00572 Rev 8-24-23

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*Associated Manuals Part Numbers: NABCO Price Book (for Sensors, Switches, and Accessories)
Opus Slide Wire & Program Manual P/N C-00391
GT1175 Electrical Installation Manual **with U30 Microprocessor Control** P/N C-00198
NAX Hermetic Slide Door Owner's Manual P/N C-00308*

- DANGER** All installation and service shall be done by a qualified NABCO trained technician.
- WARNING** Turn OFF all power to the Automatic Door if a Safety System is not working.
- WARNING** 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.
- WARNING** 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 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

- 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.
- DANGER** Do not place fingers or uninsulated tools inside the electrical controller. Touching wires or other parts inside the enclosure may cause electrical shock, serious injury or death.
- DANGER** Immediately shut down the power if any abnormal sound or smell, and/or smoke are generated after the power is turned ON. It may result in a fire.
- 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 instructions, ask a qualified technician. Failure to do so may result in bodily injury, or property damage and will nullify all warranties.
- WARNING** These installation instructions are aimed to end users who can understand the language written within this manual. If this is not the case or any persons who do not understand the language use or service this door system, give such workers safety educations and handling instructions on the customer's responsibility.
- WARNING** Before Installation: surround the Door System with a safety fence, etc. to prevent persons other than workers from entering the working zone.
- WARNING** Do Not hang or detach Slide Door alone. Always work with another NABCO trained technician. Working alone may result in injury by fallen door.
- WARNING** A hand can get caught by unexpected movement of the door. Before turning ON the power, confirm the followings:
- ▶ There is no person nor object on the sliding door track.
 - ▶ The sliding door is at its fully closed position.
- CAUTION** Never disassemble nor modify the NAX Hermetic Slide Door. Nabco is not liable for any damages nor problems caused by such disassembly or modification by customers.
- 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.
- Note:** *For the disposal of this door system, confirm and observe the relative laws, standards, bylaws, and/or regulations of the nation or region where this door system is used.*

CHAPTER 3: SCOPE

SECTION 3.1: 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 Z97.1 covers Glass Installation. In addition, use other local standards or codes that may apply.

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

SECTION 3.2: Objective

The NAX Hermetic door is specifically designed with a "drop and push" roller system along with vinyl seals, that have the proven ability to keep airborne contagions (JIS A4702 Class A-4, BS EN12207 Class 4) in/out, or radiation in/out. As an added bonus, the NAX Hermetic door has also been designed to provide (JIS A4702 Class T1 - Class T2) sound insulation.

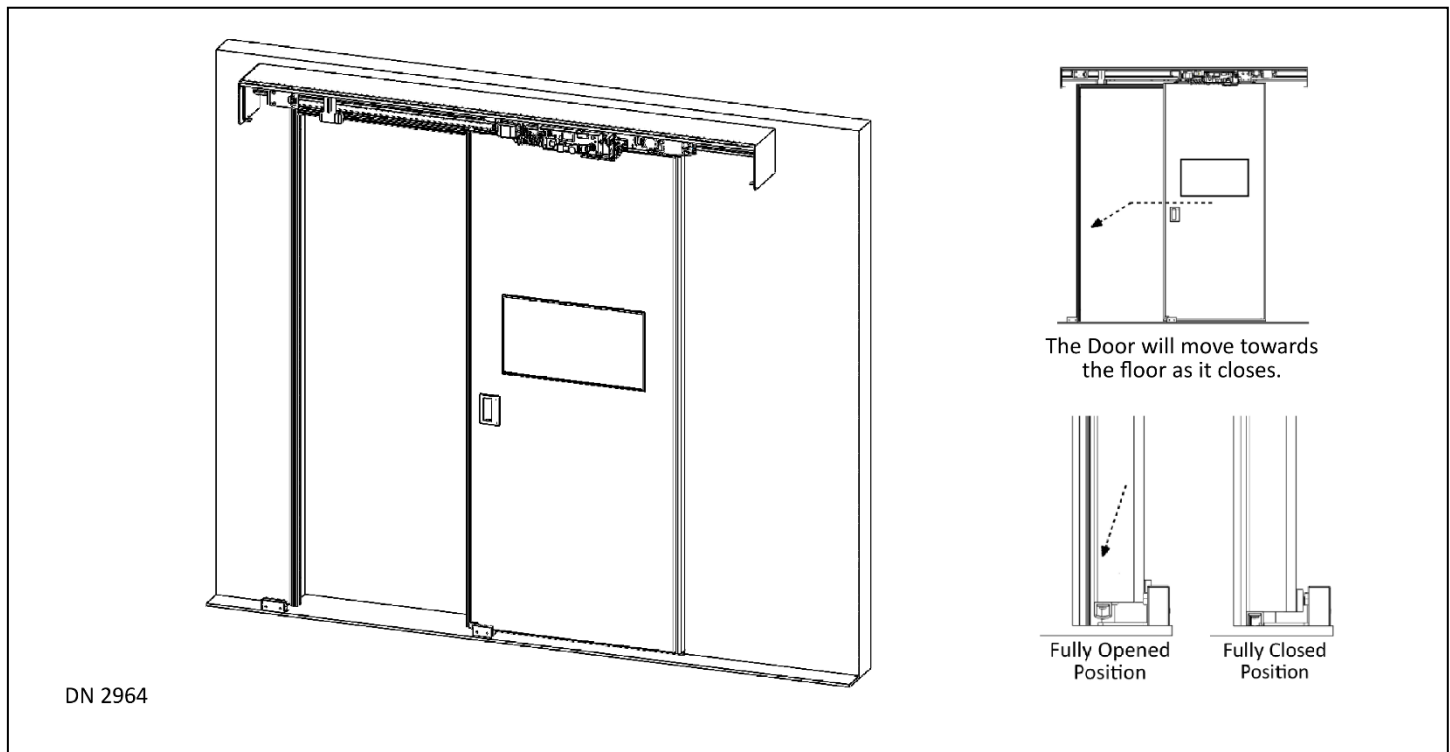
CAUTION

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 (0.09 m²) and having no dimension greater than 18 in (457 mm)".

CHAPTER 4: GETTING STARTED

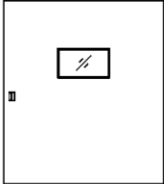
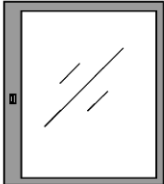
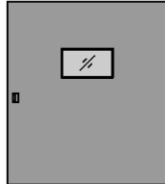
SECTION 4.1: Feature



The NAX GT9000 Series Hermetic Slide Door system is:

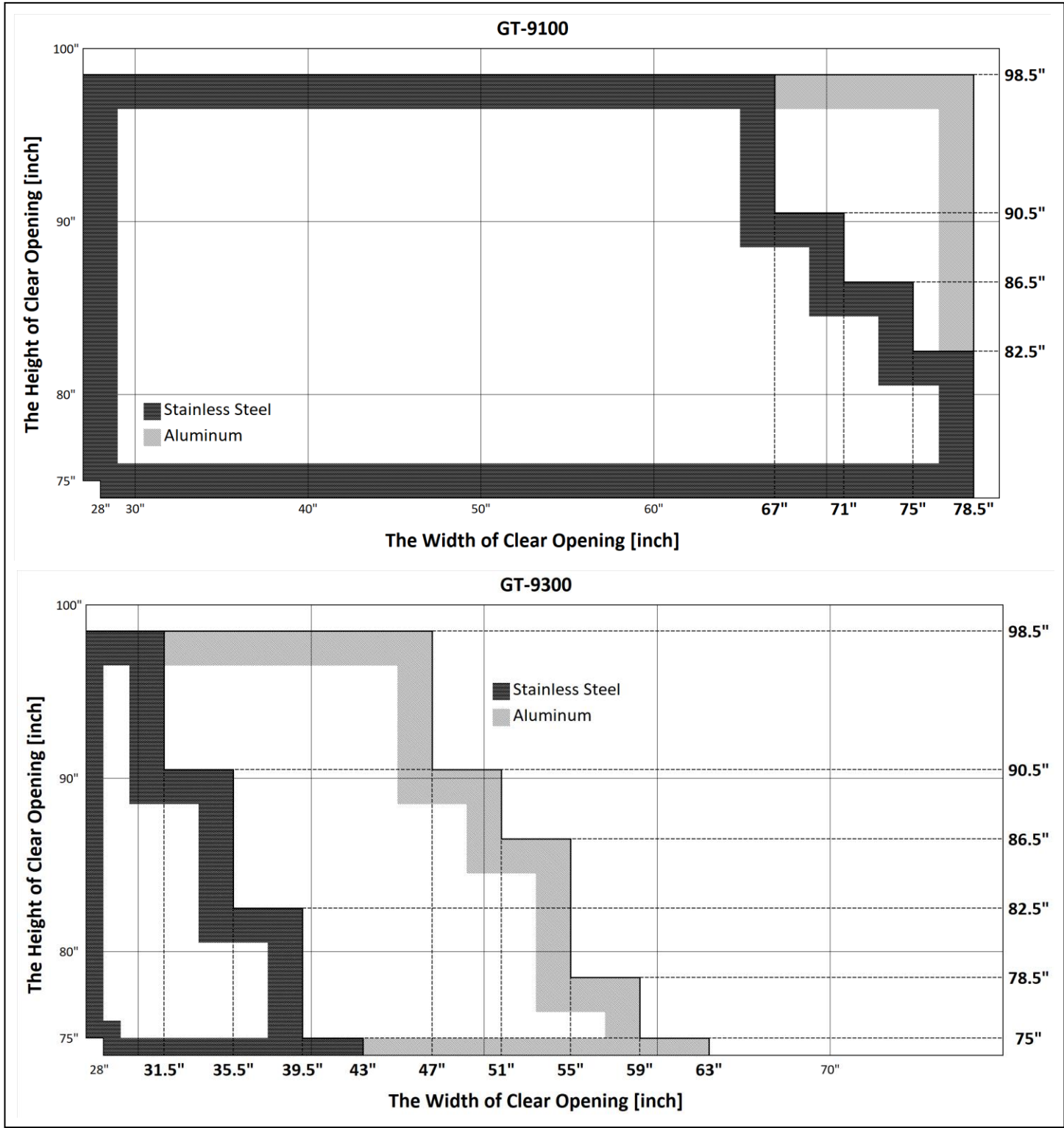
- ▶ Engineered to comply with Code JIS A 4702 Class A-4, BS EN12207 Class 4 for airtight performance.
 - Vinyl Seals used to keep airborne contagions in/out, unwanted sound in/out.
 - Designed for rooms where airborne contagion control and air hygiene control is critical. Such as hospital operating rooms, infection wards, etc.
- ▶ Engineered to comply with Code JIS A 4702, Class T1 - Class T2, for sound insulation performance.
 - Designed for rooms where sound control is critical. Such as meeting rooms, sound Insulation rooms, etc.
- ▶ Three models are available: Standard (GT-9100), All Glass (GT-9200), and X-Ray (GT-9300). Refer to SECTION 4.2:.
- ▶ A variety of Finishes, including Anti-Bacterial Paint.
- ▶ For a barrier-free design, a Threshold is not required, however an optional steel Threshold can be ordered.
- ▶ Slide Door can be fully opened/closed manually. If utilizing a recessed Handle there will be no need for clearance.
- ▶ The door has a flat structure with no frame (excluding GT-9200).
- ▶ During a power outage the Door:
 - Will remain fully closed to maintain airtightness and sound control performance.
 - Can still be manually opened/closed at any time.

SECTION 4.2: Model Specifications

 GT-9100  GT-9200  GT-9300						
Series	Type	Definition	Structure and Finish	Airtight	Sound	X-Ray
GT-9100	NAX-SN	Standard	Aluminum Alloy Plate ▶ Standard White paint Finish *1 ▶ Honeycomb Core	Yes JIS A4702 Class A-4 BS EN12207 Class 4	Yes JIS A4702 Class T-1	No
			Stainless Steel Plate ▶ Standard #150 Hairline Finish ▶ Honeycomb Core			
GT-9200	NAX-SG	All Glass	Tempered Glass Panel ▶ Aluminum (Anodized) Frame (4-sided) ▶ Silver Finish		Yes JIS A4702 Class T-2	
GT-9300	NAX-SX	X-Ray *2	Aluminum Alloy Plate ▶ Standard White paint Finish *1 ▶ Honeycomb Core ▶ (2mm) Lead Plate Liner		Yes JIS A4702 Class T-1	Yes
			Stainless Steel Plate ▶ Standard #150 Hairline Finish ▶ Honeycomb Core ▶ (2mm) Lead Plate Liner			
*1 Optional: custom paint colors and antibacterial paint. *2 Radiation Protection standards vary for each country and the size of the boundary for controlled area for X-rays. Each individual site must be inspected before ordering an X-ray Slide door. * All Series are "Single Door Only".						

4.2.1 Opening Sizes

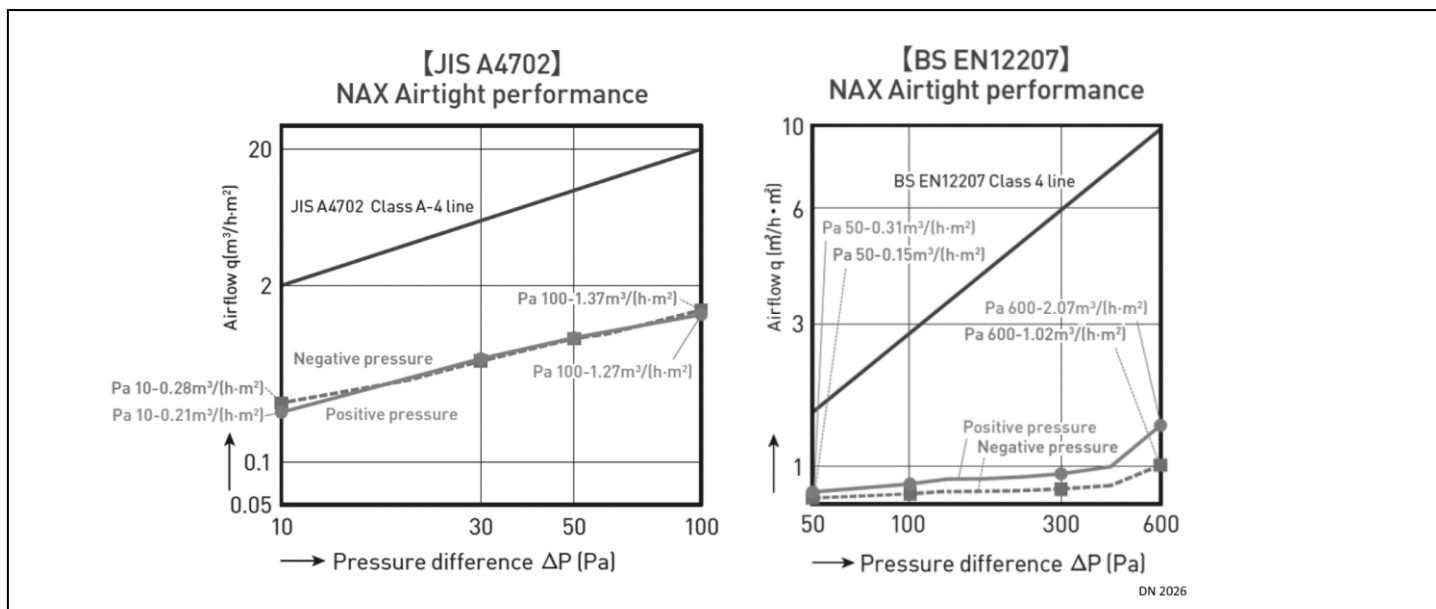
Series	Structure	Clear Opening		Joint ^{*2}
		Width	Height ^{*1}	Width
GT-9100	Aluminum Alloy Plate	28" to 78-1/2" (700mm to 2,000mm)	75" to 98-1/2" (1,900mm to 2,500mm)	50-3/4" (1290mm)
	Stainless Steel Plate	28" to 67" (700mm to 1,700mm)	75" to 98-1/2" (1,900mm to 2,500mm)	39" (990mm)
		67" to 78-1/2" (1,701mm to 2,000mm)	See Chart.	
GT-9200	Tempered Glass Panel	28" to 78-1/2" (700mm to 2,000mm)	75" to 98-1/2" (1,900mm to 2,500mm)	-
GT-9300	Aluminum Alloy Plate	28" to 47" (700mm to 1,200mm)	75" to 98-1/2" (1,900mm to 2,500mm)	45-5/8" (1160mm)
		47" to 63" (1,201mm to 1,600mm)	See Chart.	
	Stainless Steel Plate	28" to 31-1/2" (700mm to 800mm)	75" to 98-1/2" (1,900mm to 2,500mm)	33-7/8" (860mm)
		31-1/2" to 43" (801mm to 1,100mm))	See Chart	
*1 Height limit is depending on the Width.				
*2 When the width exceeds the "Joint" dimension, there is a seam on the skin material. The seam is silicone caulking (black).				



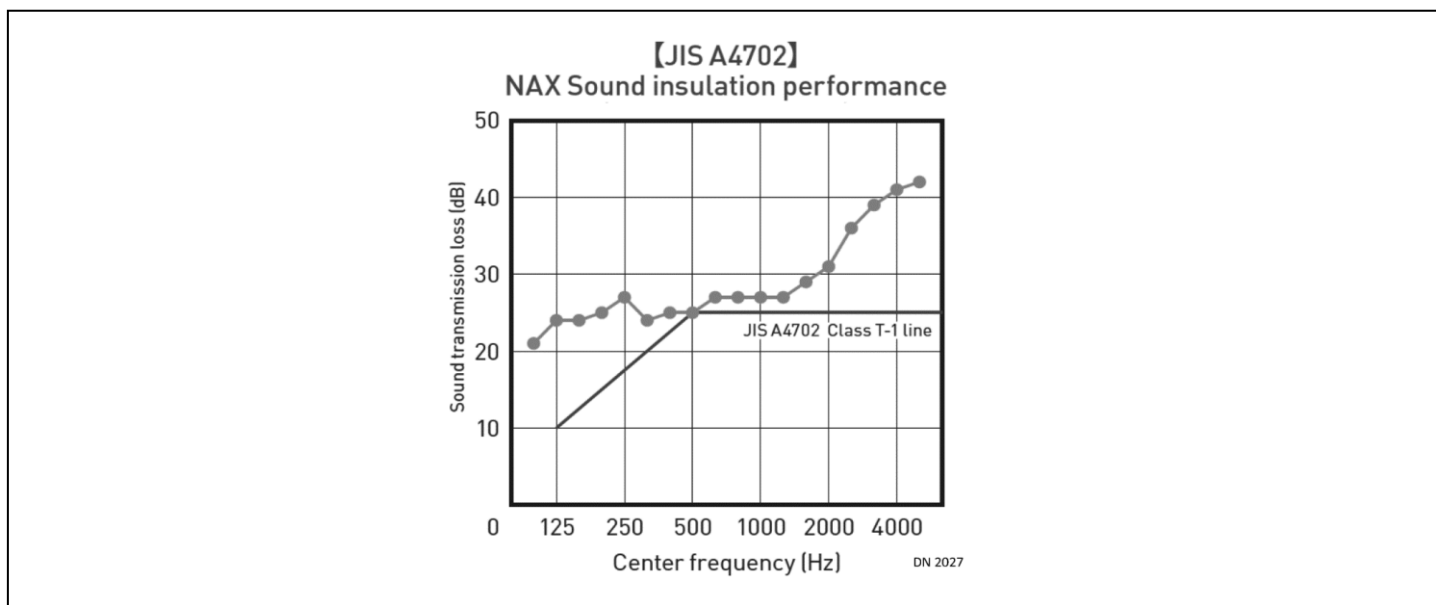
4.2.2 Extrusion Specifications

Extrusion	Description
3-sided Jamb Tubes	Aluminum extruded material (Anodized), silver color.
	Rubber, black seals located at the top, and both sides.
Header, Cover and End Caps	Aluminum extruded material (Anodized), silver color.
Threshold (Optional)	Stainless Steel Plate (Standard #150 Hairline Finish). The floor must be level. If not, original airtight performance cannot be achieved. Thresholds can be used to level floors.

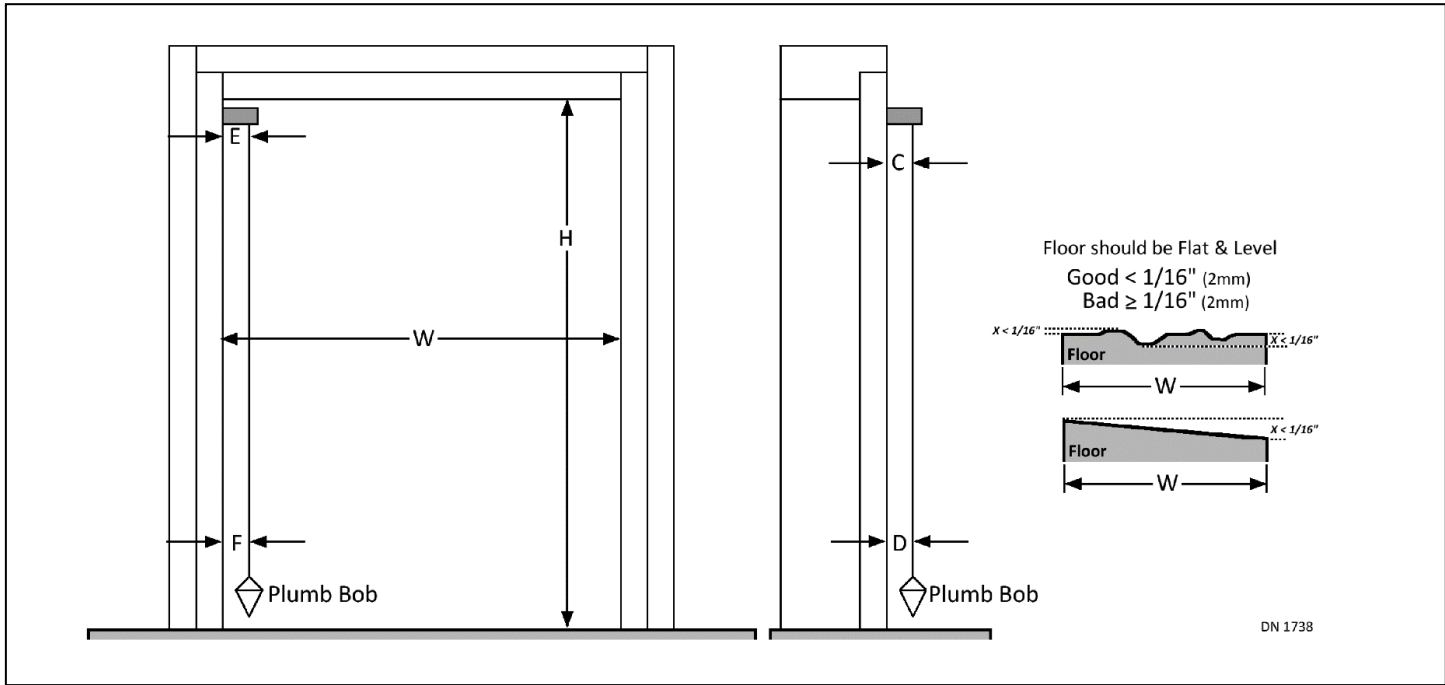
4.2.3 Airtight Performance Chart



4.2.4 Sound Insulation Performance Chart



CHAPTER 5: PREPARE THE MOUNTING SURFACE (OR FRAME)



SECTION 5.1: Ensure the Finished Opening is Plumb and Square

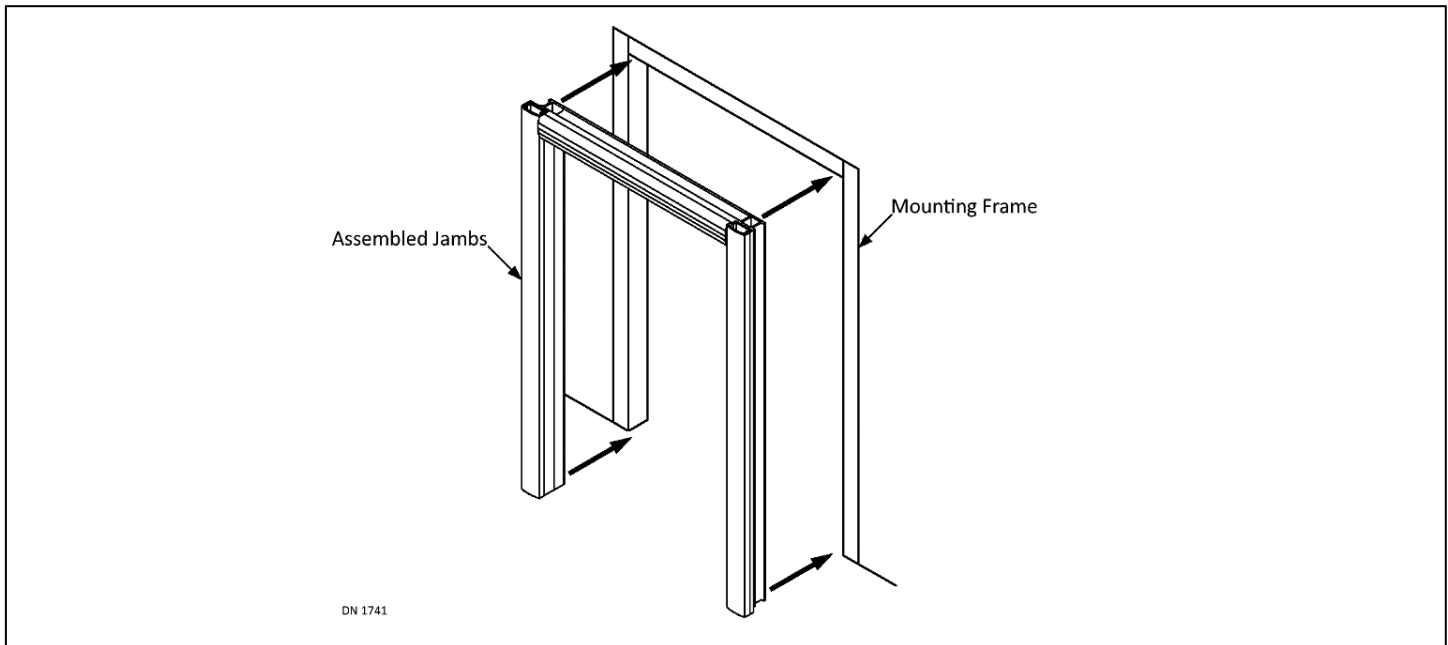
1. Ensure the Floor is Flat & Level. The maximum allowable variation is no more than 1/16" in Width of Finished Opening*.
2. Use a Plumb Bob to ensure the Finished Opening is Plumb and Square. Please refer to Figure 1 and Table 1.

* Finished Opening: Finished Opening is the full width and full height of the opening within the wall, without any form of extrusions installed. Such as: an aluminum frame, or jamb tubes.

Table 1 Plumb/Square Chart

Point of Measurement		Allowable Error
Width of Finished Opening	Top	Must be within $\pm 1/32"$ ($\pm 1\text{mm}$) standard dimensions
	Middle	
	Bottom	
Height of Finished Opening	Left	Must be within $\pm 1/16"$ ($\pm 2\text{mm}$) standard dimensions
	Center	
	Right	
Right side of the Finished Opening	C	Difference between C and D must be within $\pm 1/16"$ ($\pm 2\text{mm}$)
	D	
	E	Difference between E and F must be within $\pm 1/16"$ ($\pm 2\text{mm}$)
	F	
Left side of the Finished Opening	C	Difference between C and D must be within $\pm 1/16"$ ($\pm 2\text{mm}$)
	D	
	E	Difference between E and F must be within $\pm 1/16"$ ($\pm 2\text{mm}$)
	F	

CHAPTER 6: INSTALL THE JAMB TUBES

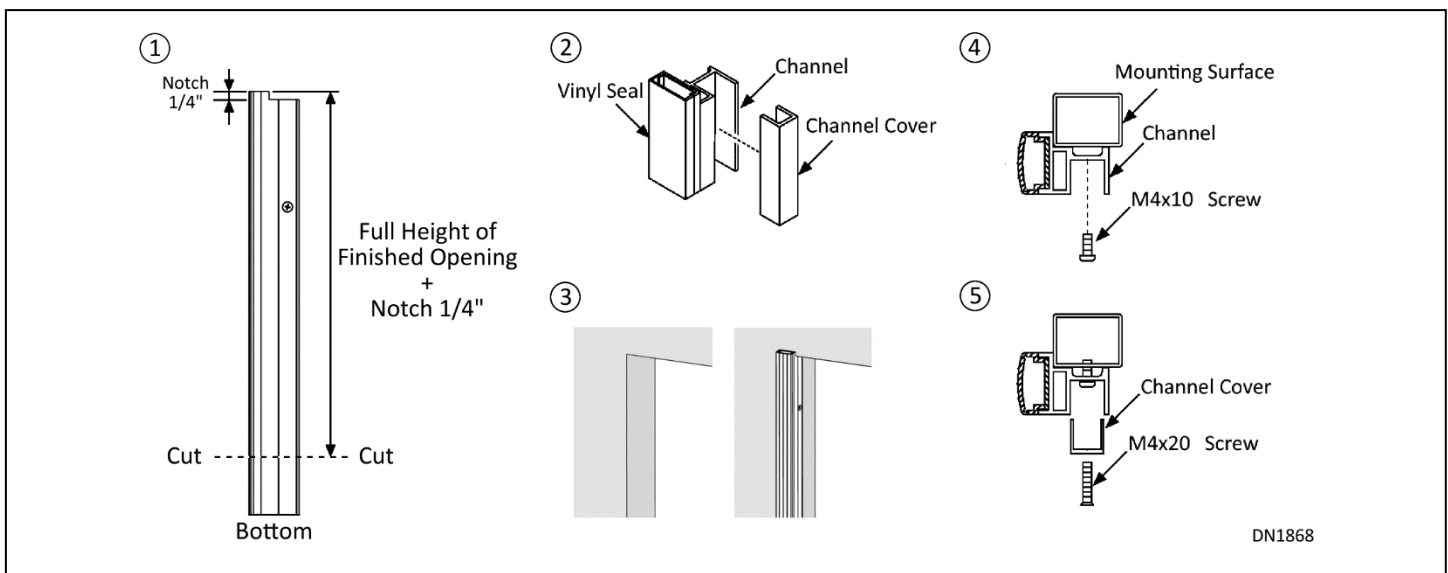


Attention: NABCO recommends that an aluminum frame should be installed within the Finished Opening for the Jamb Tubes to secure to.

Notice: Each Jamb Tube is shipped from the NABCO Factory as a set of (3) pieces. (2) Vertical Jamb Tubes and (1) Horizontal Jamb Tube. Each Jamb Tube is cut at the NABCO Factory to be 2 inches (50mm) longer than the actual size needed. The Installer must cut each Jamb Tube to the actual size deemed necessary "on site". NABCO does not provide any cutting tools.

Notice: Finished Opening is the full width and full height of the opening within the wall, without any form of extrusions installed. Such as: an aluminum frame, or jamb tubes.

SECTION 6.1: Install Vertical Jamb Tubes

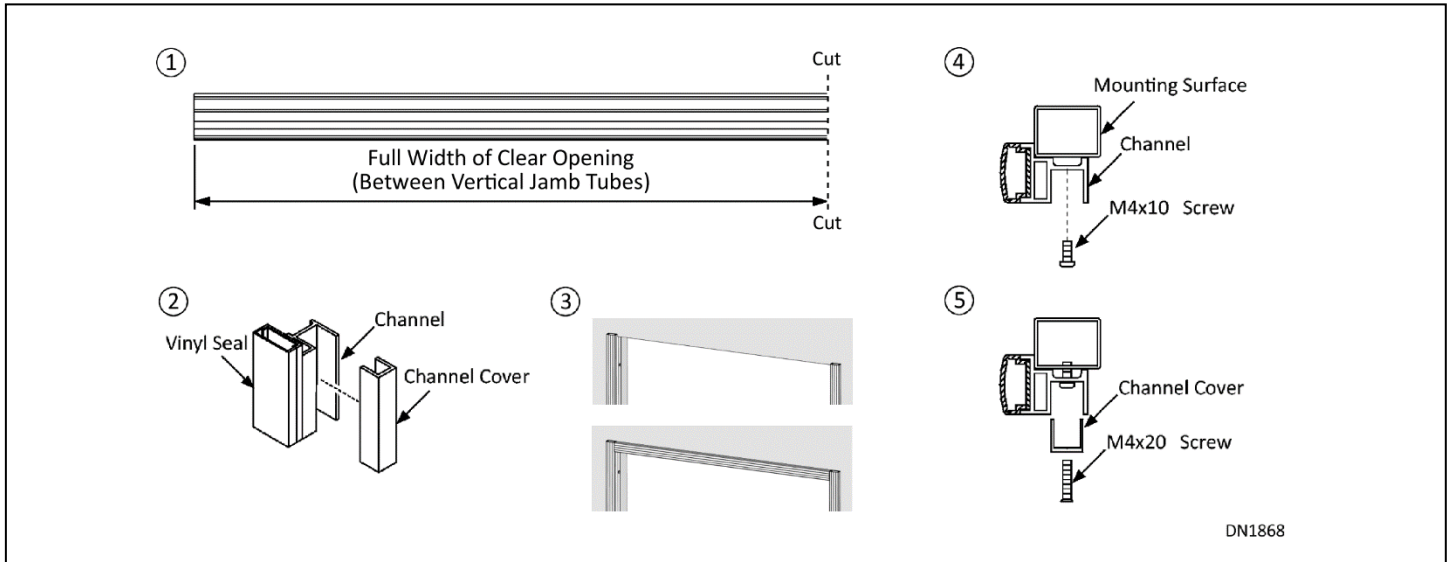


Attention: Do Not shorten the Vertical Jamb Tubes at the top. The 1/4" Notch located at the top is necessary for proper installation.

1. Cut the Bottom of each Vertical Jamb Tube. Make it Full Height of **Finished** Opening + Notch 1/4" (7mm).

2. Remove a Channel Cover.
3. Place Vertical Jamb Tube in Finished Opening with vinyl facing Exterior. Use the Jamb Tube as a template to mark the pre-drilled holes. NABCO recommends using a punch.
4. Drill screw holes and Secure each Jamb Tube to the Mounting Surface with M4x10 Pan Head screws.
5. Secure the Channel Cover to each Jamb Tube with M4x20, D6 Countersunk Head screws through pre-drilled holes.

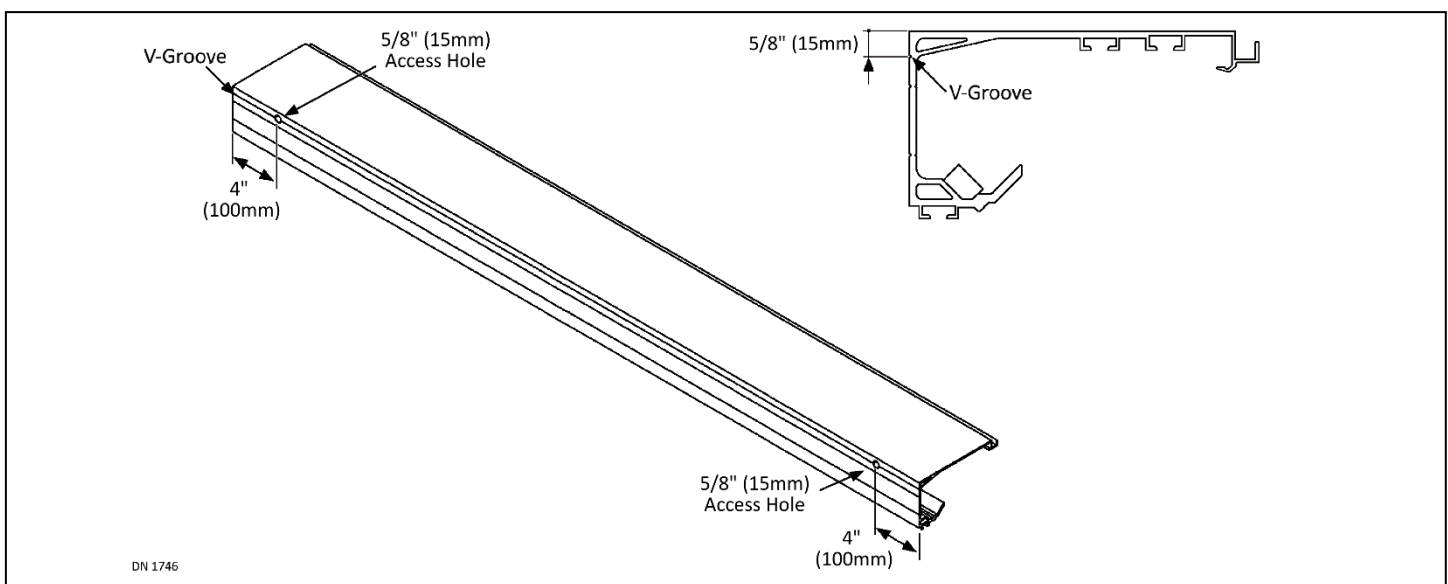
SECTION 6.2: Install Horizontal Jamb Tube



1. Cut Horizontal Jamb Tube. Make it Full Width of **Clear** Opening (between Vertical Jamb Tubes).
2. Remove a Channel Cover.
3. Place Horizontal Jamb Tube in Finished Opening with vinyl facing Exterior. Use the Jamb Tube as a template to mark the pre-drilled holes. NABCO recommends using a punch.
4. Drill screw holes and Secure Jamb Tube to the Mounting Surface with M4x10 Pan Head screws.
5. Secure the Channel Cover to Jamb Tube with M4x20, D6 Countersunk Head screws through pre-drilled holes.

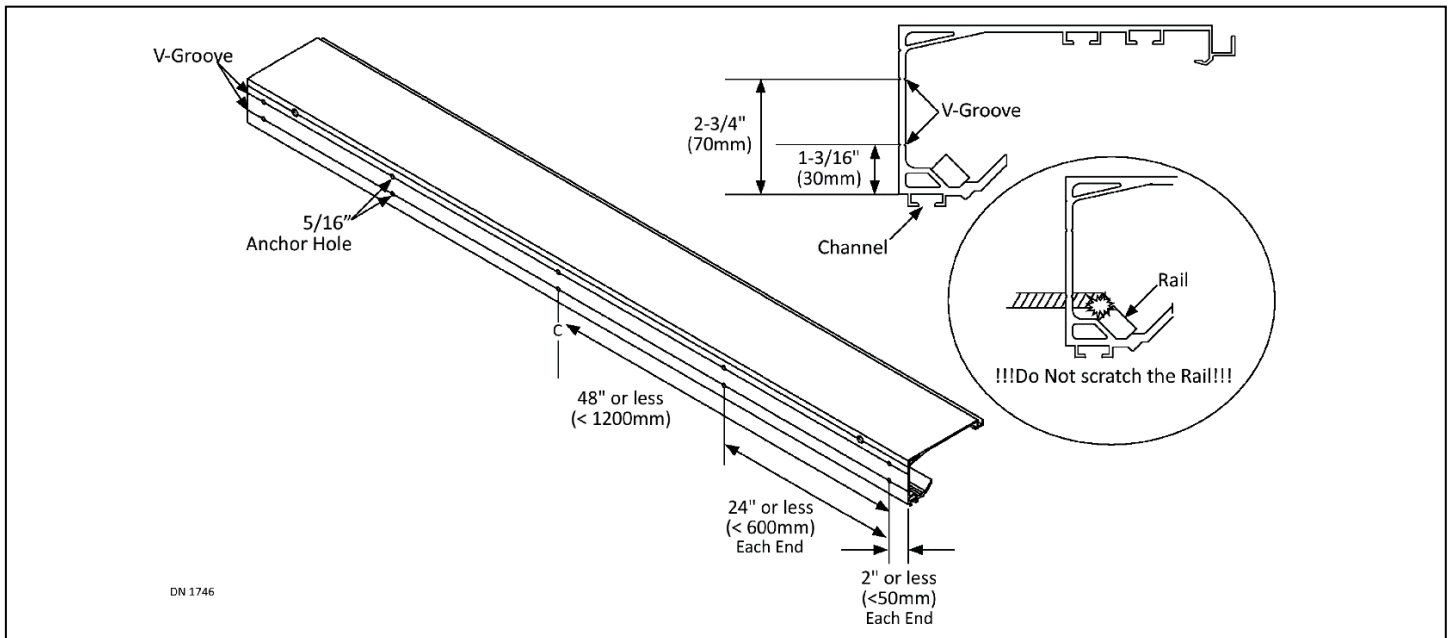
CHAPTER 7: PREPARE THE HEADER

SECTION 7.1: Drill (1) Access Hole for 120 VAC Wiring and Holding Beam Wires



1. Go to the Back of Header. From the Top edge towards the Bottom, measure down 5/8" (15mm) to locate the V-Groove.
2. Drill 5/8" (15mm) Access Hole 4" (100mm) from **Each End**.

SECTION 7.2: Drill Anchor Holes



Note: Anchors are not provided by NABCO.

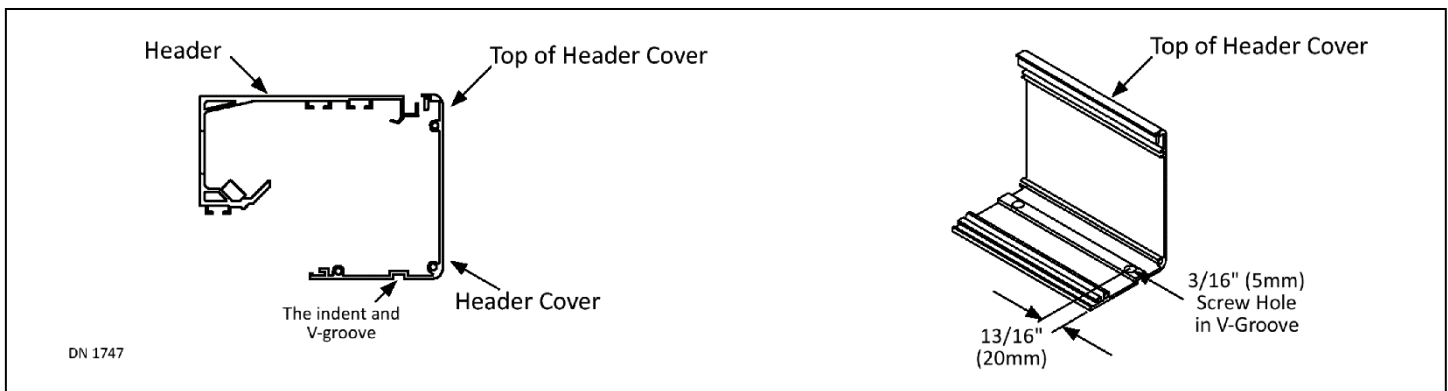
Anchors must be appropriate for the type of structure being fastened to. For example: Rivet Nut for Sheet Metal.

Note: Anchor holes must be drilled inside V-Grooves located on back of Header only.

The recommended diameter Anchor Hole should be for a 5/16" Hex Washer Head fastener.

- Go to the back of Header. From the Bottom edge towards the top, measure up:
 - 1-3/16" (30mm) to locate the bottom V-Groove.
 - 2-3/4" (70mm) to locate the middle V-Groove.
- Drill Anchor Holes in both V-Grooves according to the recommended dimensions:
 - 2" (50mm) or less from **Each End**.
 - 24" (600mm) or less from **Each End**.
 - 48" (1200mm) or less in the center.

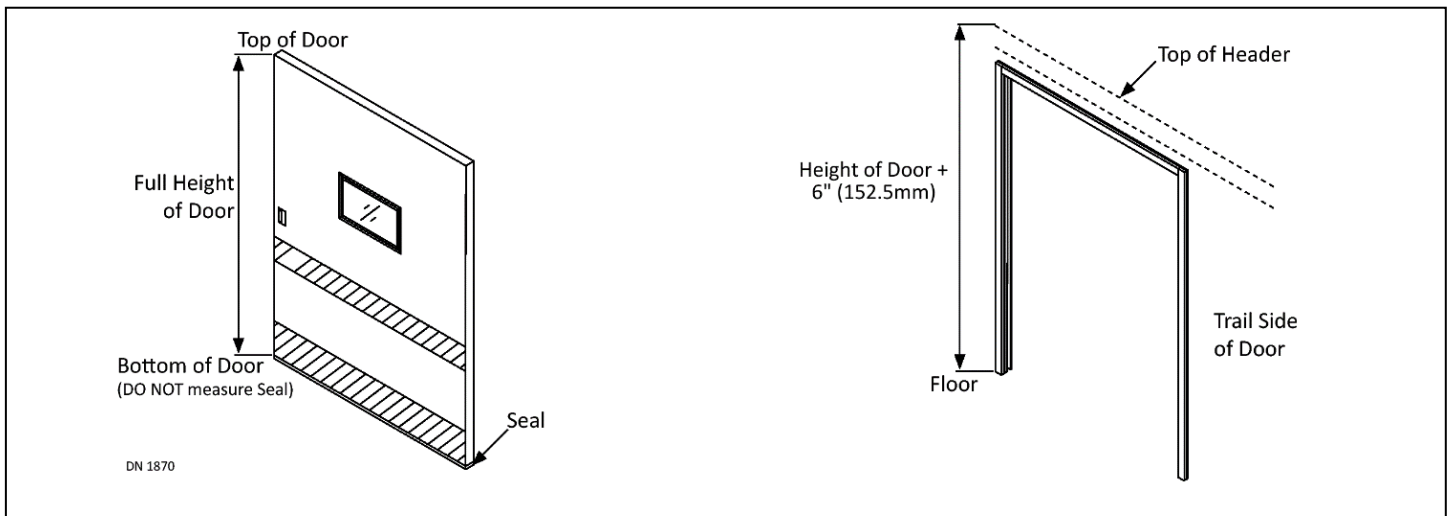
SECTION 7.3: Drill Cover Screw Holes



- Look for the V-groove in the indent of the cover.
- Drill 3/16" (5mm) Screw Hole 13/16" (20mm) from **Each End**.

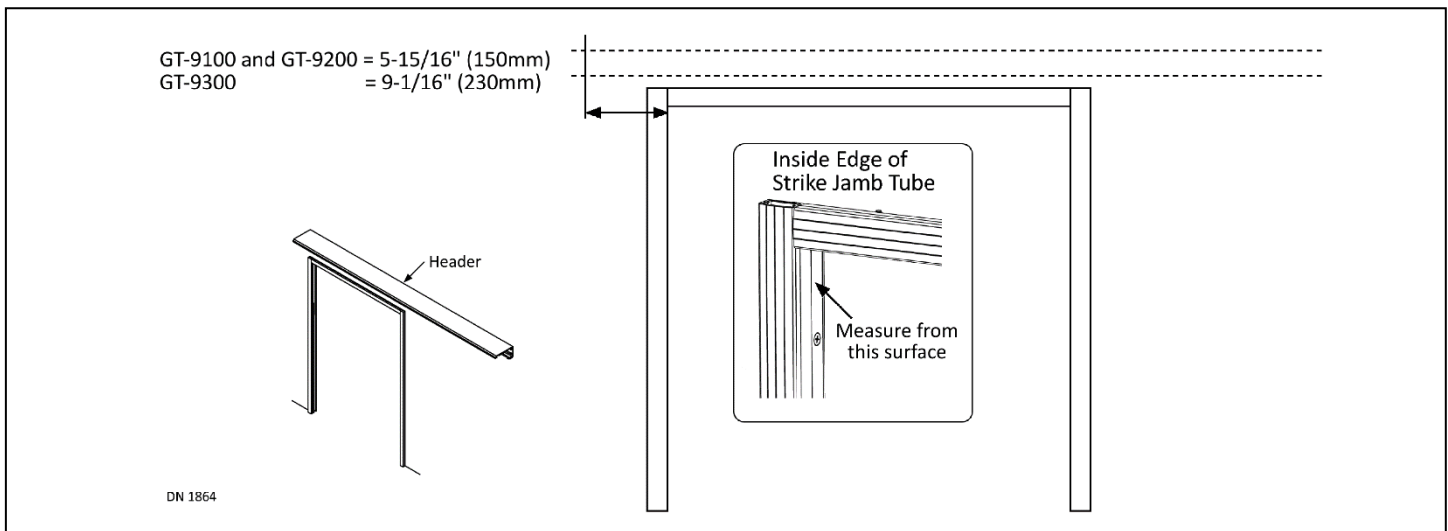
CHAPTER 8: INSTALL THE HEADER

SECTION 8.1: Determine Top of Header Horizontal Position



1. Measure the full height of the Door (Do Not include the bottom seal). Add 6" (152.5mm) to that measurement.
2. From the floor, measure (Height of door + 6 inches) upwards and past the top of the Clear Opening. Mark that measurement on the Mounting Surface with a horizontal line.

SECTION 8.2: Determine Strike Side of Header Vertical Position



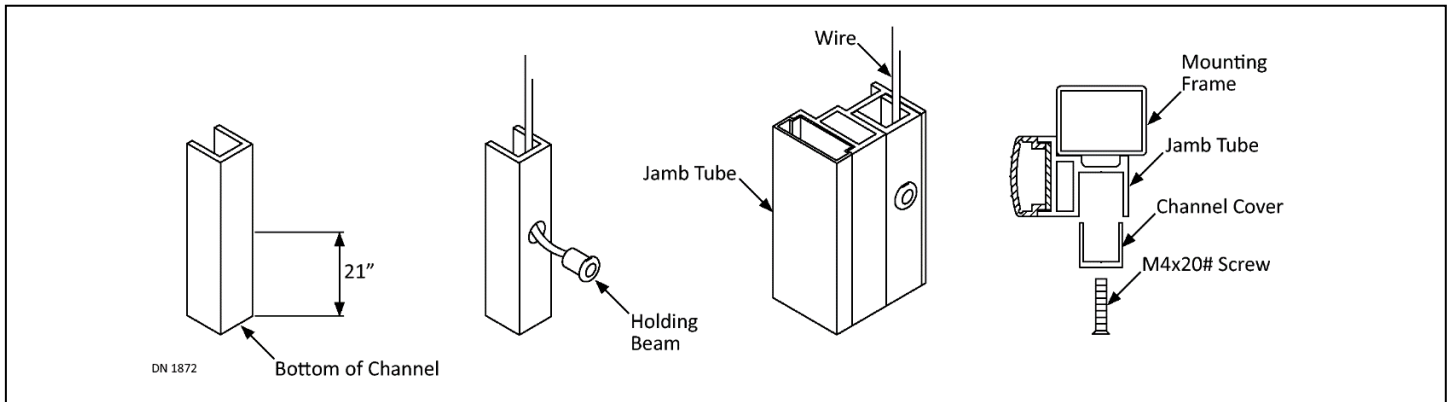
1. Go to the Strike Jamb Tube.
2. Measure from the inside edge of Jamb Tube - out - onto the Mounting Surface:
 - GT-9100 and GT-9200 = 5-15/16" (150mm)
 - GT-9300 = 9-1/16" (230mm)
3. Mark that measurement with a Vertical Line across the Horizontal lines.
4. Butt the Top of Header up against the Horizontal line. At same time, butt the Strike side of Header to the Vertical Line.
5. Ensure the Header is square and level. Use shims where deemed necessary.

Attention: Ensure the Header is square and level. If not, the header may cause abnormal sound and/or decrease service life and/or Front Cover not to install properly.

6. Secure the Header to the Mounting Surface with anchors that are appropriate for the type of structure being fastened to. If anchoring the Header to:
 - Sheet Metal: It is recommended to install Rivet Nuts into the Mounting Surface, then use 5/16" (M8x16) Hexagon Head Bolts and 5/16" Washers.
 - Studs: it is recommended to use Lag Bolts.

CHAPTER 9: INSTALL THE HOLDING BEAMS

SECTION 9.1: Insert Holding Beams within Channels

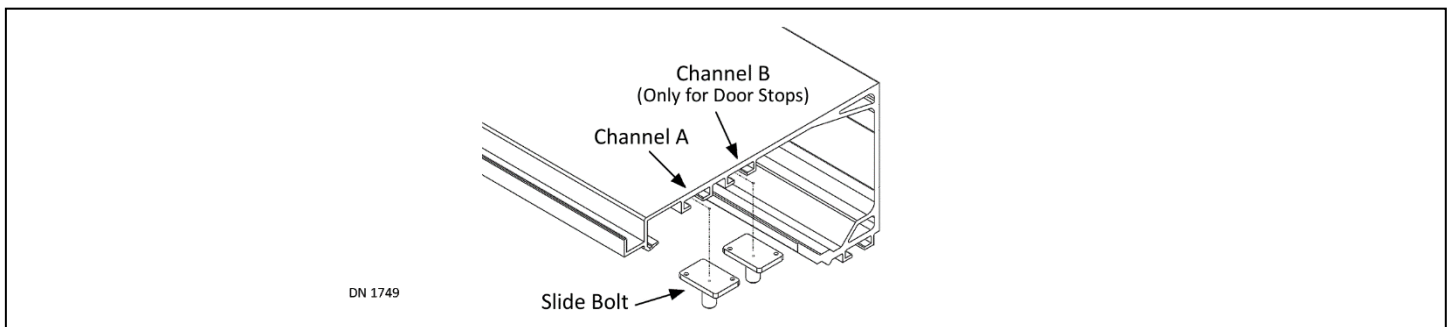


1. Obtain (2) Channels used to insert inside the Vertical Jamb Tubes.
2. Measure (21 inches) from the bottom of each Channel. Mark and drill 1/2" Hole.
 - a. If a second set of Holding Beams have been provided, measure an additional (54 inches) from the bottom of each Channel. Mark and drill 1/2" Hole.
 - b. For detailed information, please refer to Opus Slide Wire & Program P/N C-00391.
3. Insert (1) Holding Beam into each hole until it is flush. At the same time, run the wiring "up and out" the top of each Channel.
4. Secure each Channel to the Vertical Jamb Tubes with M4x20 Screws.
 - Ensure the excess wiring is pulled out of the Channel (at the top).

SECTION 9.2: Wire the Holding Beams to the Holding Beam Controller

1. Drill 1/2" an Access Hole through the Mounting Surface on the Strike Side and the Trail Side of the Clear Opening.
2. Run the wiring for each Holding Beam through the Access Hole, and then into the Header Access Hole.
3. For detailed wiring instructions, please refer to Opus Slide Wire & Program P/N C-00391.

CHAPTER 10: INSTALL SLIDE BOLTS INTO HEADER

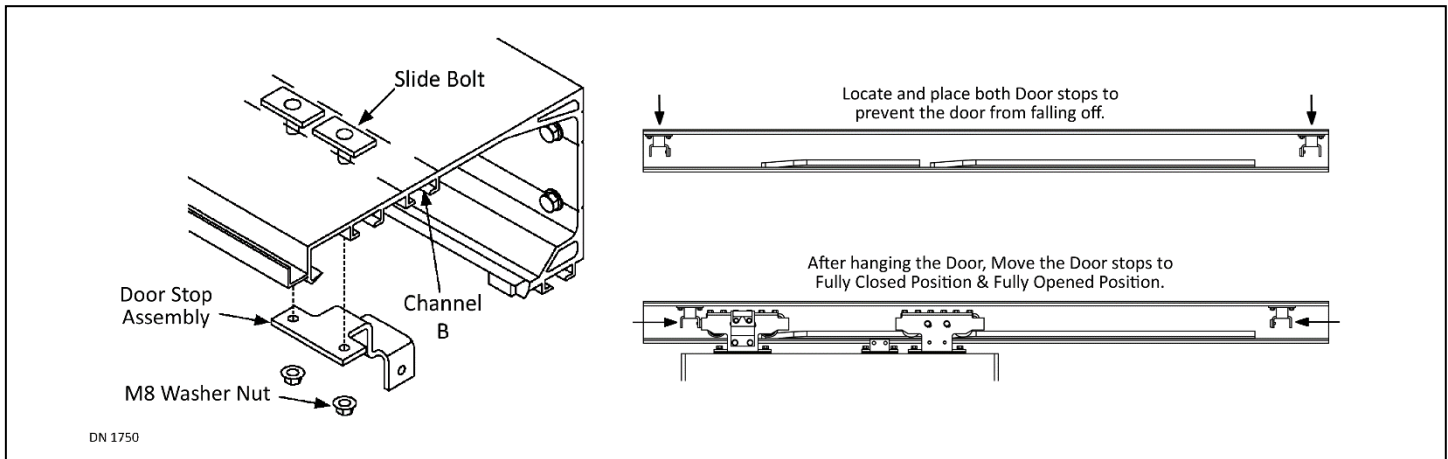


Attention: Do Not insert Slide Bolts on a Slanted angle. Doing so may cause damage to the Header.

1. Insert Slide Bolts into Header according to the Table listed below.

Component	Slide Bolts	Channel	Component	Slide Bolts	Channel
VS-150 Motor/Operator	2	A	Front Cover Bracket	2	A
Opus Controller	2		(Wire Holding Plate)	(3)	
Idler Pulley	2		Door Stop	4	B
Spring Mechanism Receiver	2		Slide Bolt Total: Channel A [12 to 15], Channel B [4]		
Holding Beam Controller	2				

CHAPTER 11: INSTALL THE DOOR STOPS



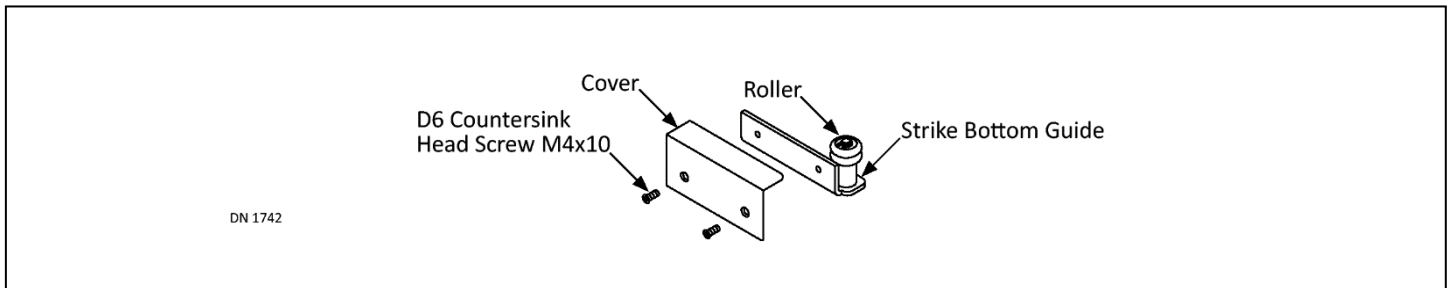
WARNING

To prevent the door from falling, install door stops first. After hanging the door onto header track, adjust location.

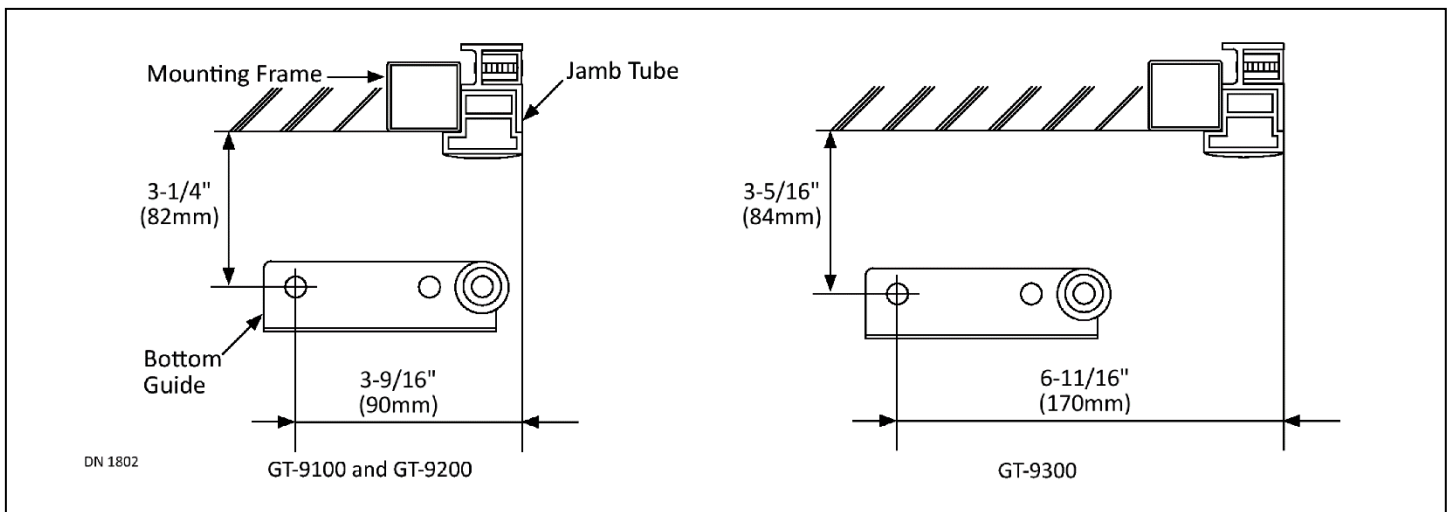
Attention: Do Not tighten M8 Washer Nuts on a Slanted angle. Doing so may cause damage to the Header.

1. Insert (4) Slide Bolts through Channel B.
 - Position (2 of 4) Slide Bolts at the Strike End of Door, and (2 of 4) Slide Bolts at the Trail End of Door.
2. Secure (1) Door Stop to each set of Slide Bolts with (2) M8 Washer Nuts. Loosely tighten.
3. Slide the Door Stop to Strike end and Tighten the M8 Washer Nuts.
4. Slide the Door Stop to Trail end and Tighten the M8 Washer Nuts.
5. (After hanging the Door onto header track, Slide the Door stop to Fully Closed Position & Fully Opened Position.)

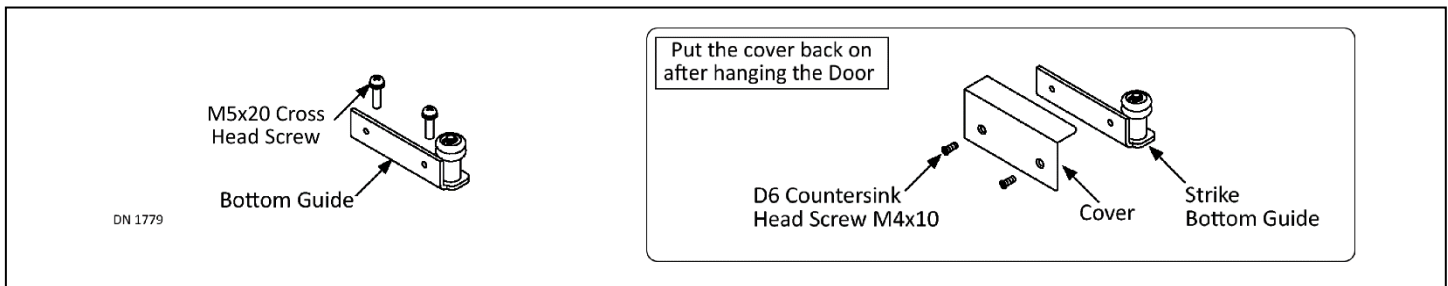
CHAPTER 12: INSTALL THE STRIKE BOTTOM GUIDE



1. Obtain the Bottom Guide for the Strike Edge of Door. Remove the Cover.

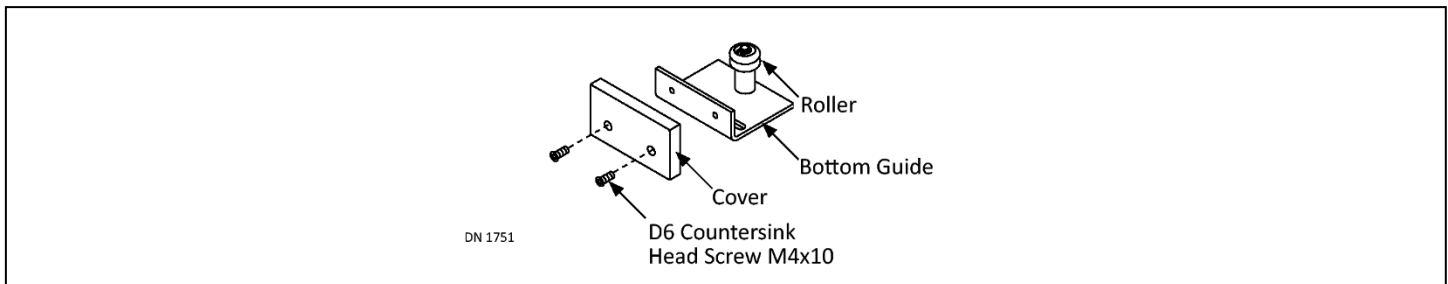


2. Go to the face of the Mounting Surface. At a 90-degree angle, measure and mark a horizontal line:
 - For GT-9100 and GT-9200 Units: Measure 3-1/4" (82mm).
 - For GT-9300 Units: 3-5/16" (84mm).
3. Go to the edge of the Strike Jamb Tube. Measure towards the Horizontal Line mark:
 - For GT-9100 and GT-9200 Units: Measure 3-9/16" (90mm).
 - For GT-9300 Units: 6-11/16" (170mm).
4. Mark a Vertical Line across the Horizontal Line. This is the center of the screw hole (farthest away from the Roller).
5. Center the Bottom Guide's pre-drilled screw hole to the marked screw hole. Ensure the Bottom Guide is square and level.
6. Marked and drill a screw hole. Use the Bottom Guide as a template to mark and drill the second screw hole.
7. Secure the Bottom Guide to the floor with (2) M5x20 Cross Head screws.

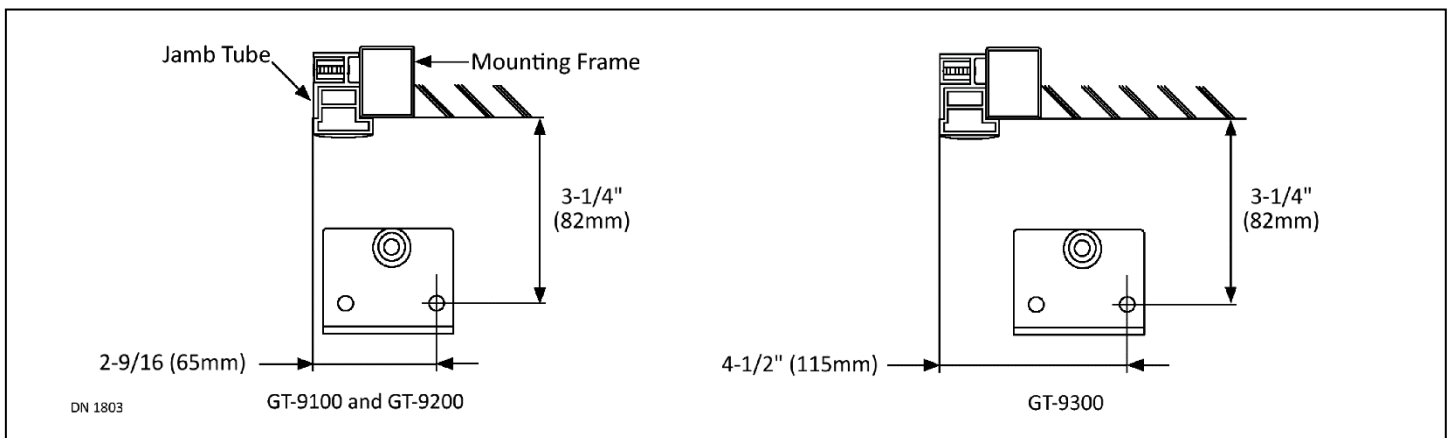


8. (After hanging the Door onto header track, replace the Bottom Guide Cover.)

CHAPTER 13: INSTALL THE TRAIL BOTTOM GUIDE

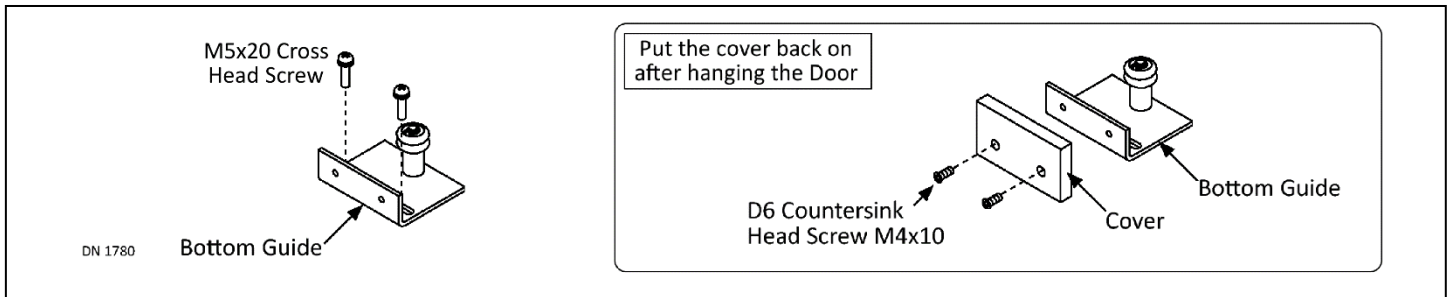


1. Obtain the Bottom Guide for the Trail Edge of Door. Remove the Cover.



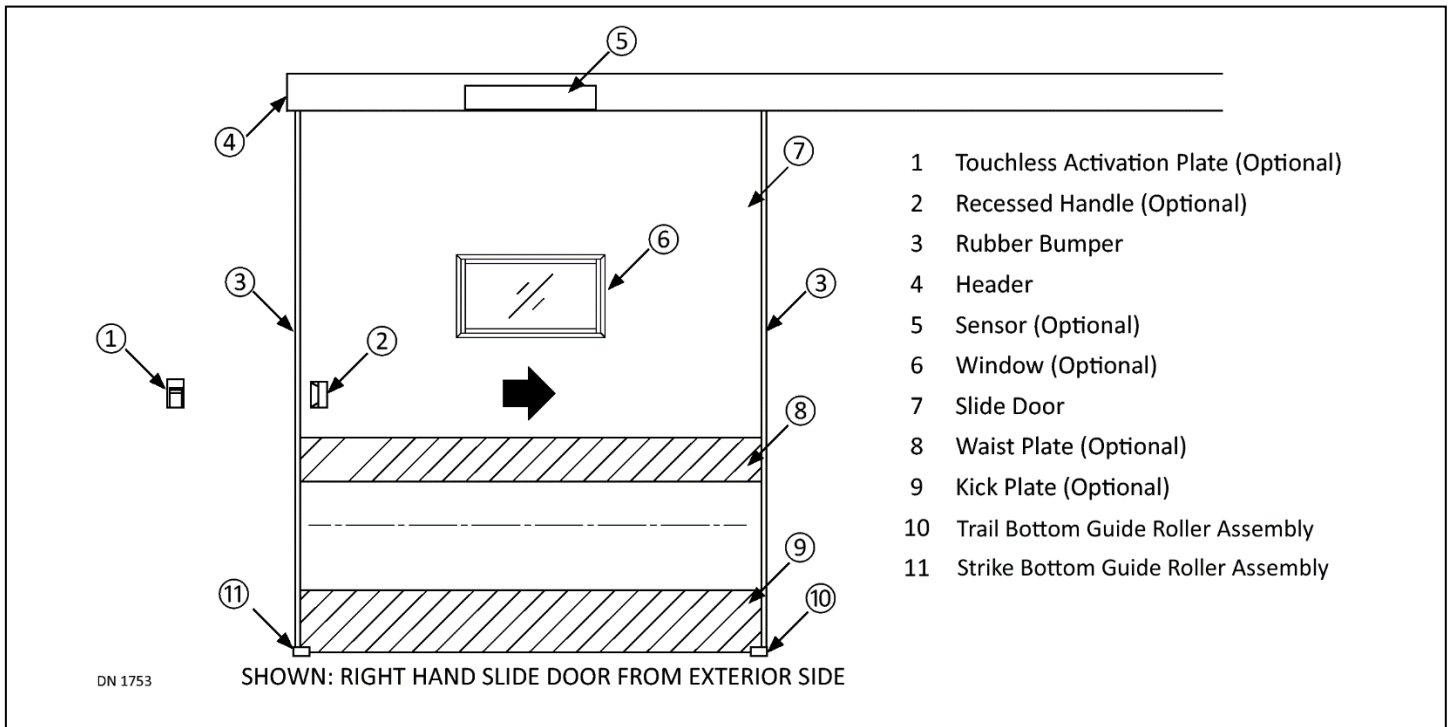
2. Go to the face of the Mounting Surface. At a 90-degree angle, measure 3-1/4" (82mm) and mark a horizontal line.
3. Go to the edge of the Trail Jamb Tube. Measure towards the Horizontal Line mark:
 - For GT-9100 and GT-9200 units: Measure 2-9/16 (65mm) to the Horizontal Line.
 - For GT-9300 units: Measure 4-1/2" (115mm) to the Horizontal Line.
4. Mark a Vertical Line across the Horizontal Line. This is the center of screw hole (farthest away from Jamb Tube).
5. Center the Bottom Guide's pre-drilled screw hole to the marked screw hole. Ensure the Bottom Guide is square and level.
6. Marked and drill a screw hole. Use the Bottom Guide as a template to mark and drill the second screw hole.

7. Secure the Bottom Guide to the floor with (2) M5x20 Cross Head screws.

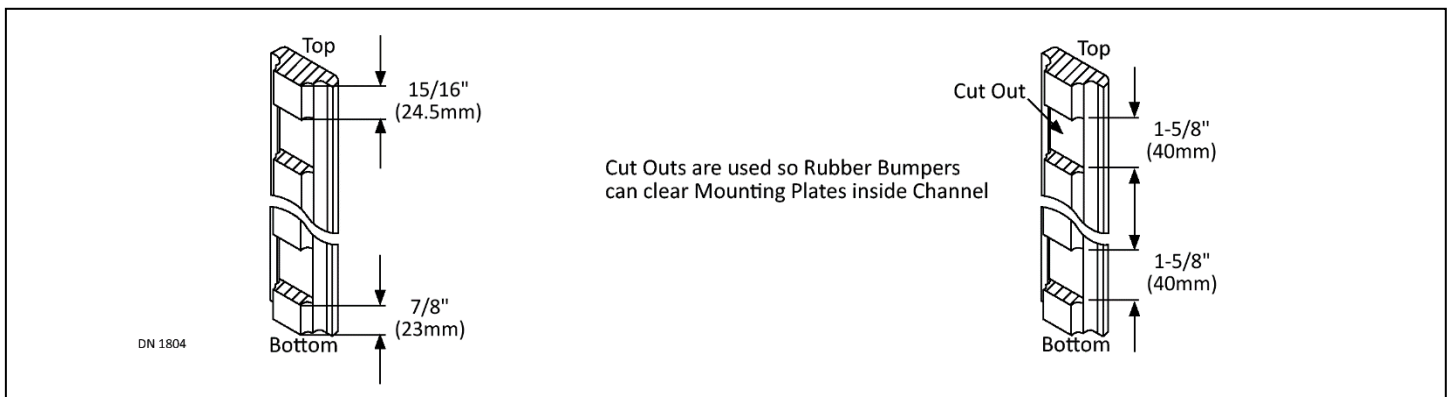


8. (After hanging the Door onto header track, replace the Bottom Guide Cover.)

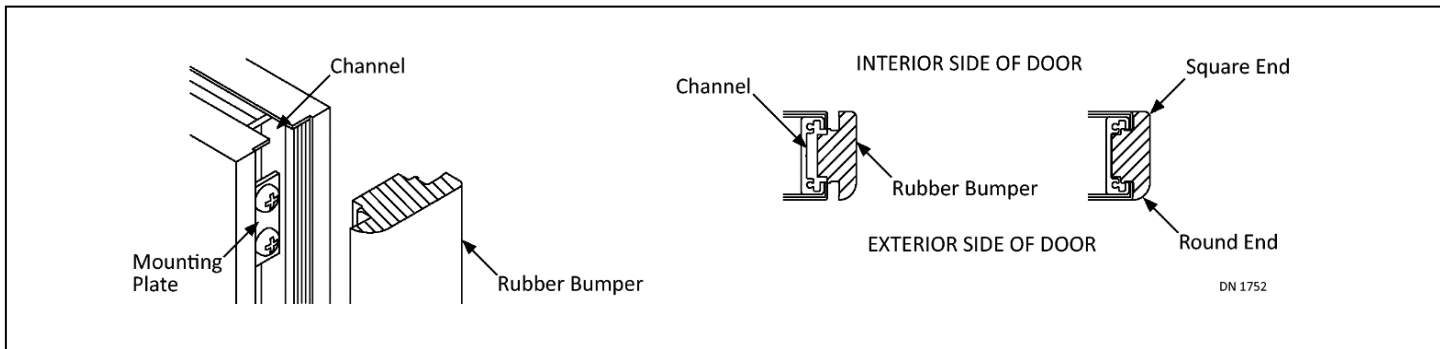
CHAPTER 14: INSTALL THE SLIDE DOOR



SECTION 14.1: Install the Rubber Bumper



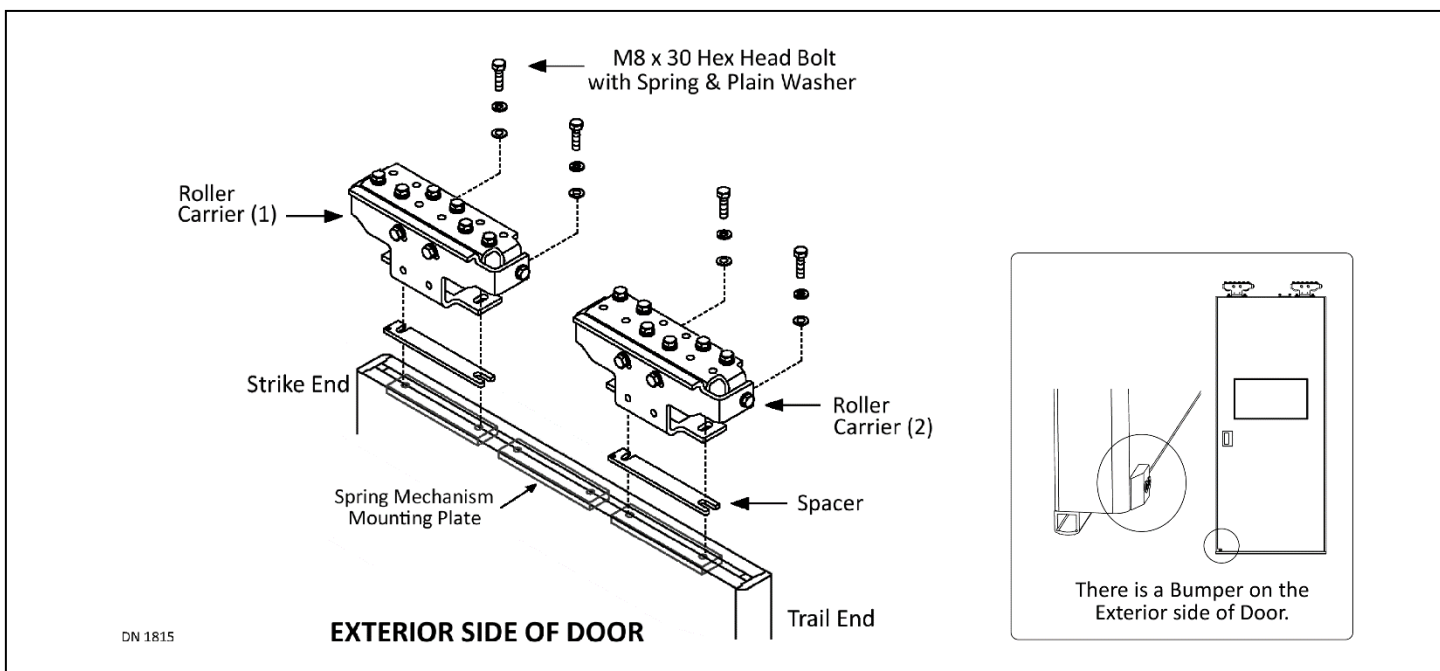
1. Obtain the Rubber Bumper. The full length of the Back Side has Cut Outs to clear Mounting Plates inside each Channel.
2. Cut each Rubber Bumper so it is the same length as each Channel. In doing so, ensure the:
 - Top of Channel is 15/16" (24.5mm) solid.
 - Bottom of Channel is 7/8" (23mm) solid.



Attention: Insert each Rubber Bumper so the rounded end is on the Exterior side of door. The squared end must always be on the Interior side of door.

3. Peel off the paper strip to expose the adhesive portion of tape. With the Rounded End on the Exterior side of door, push each Rubber Bumper into each Channel. A flat head screwdriver may help the insertion process.
 - Ensure the Rubber Bumper is completely installed with no air pockets, or crimps, etc.

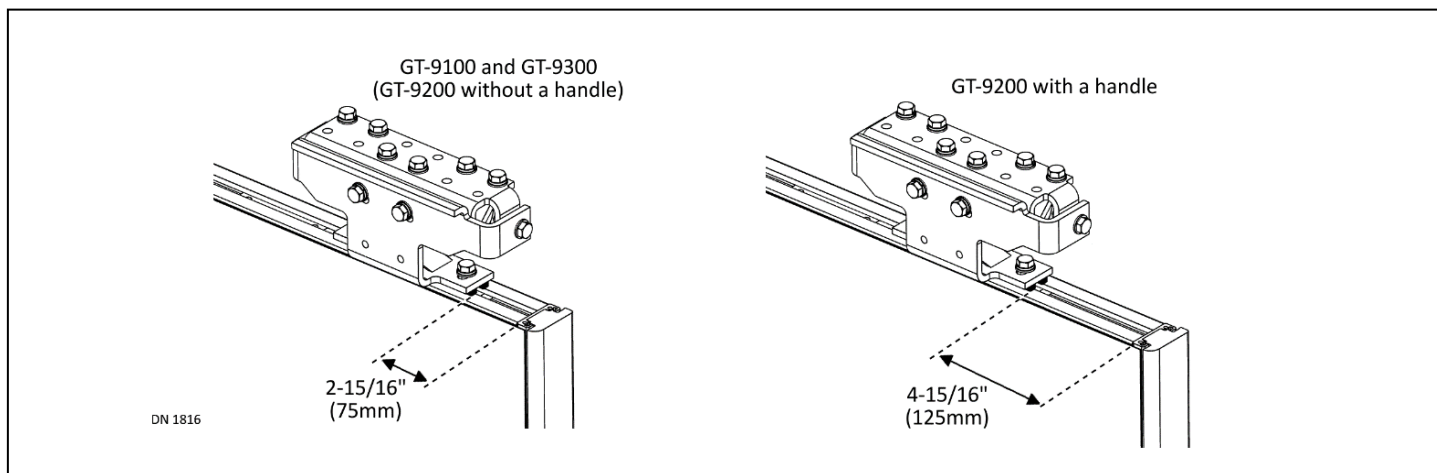
SECTION 14.2: Install Roller Carriers



Attention: Roller Carriers can be identified by the middle Roller secured on the Interior side of Carrier(1), or the Exterior side of Carrier(2). Carrier (1) must always be installed on the Strike Side of The Door.

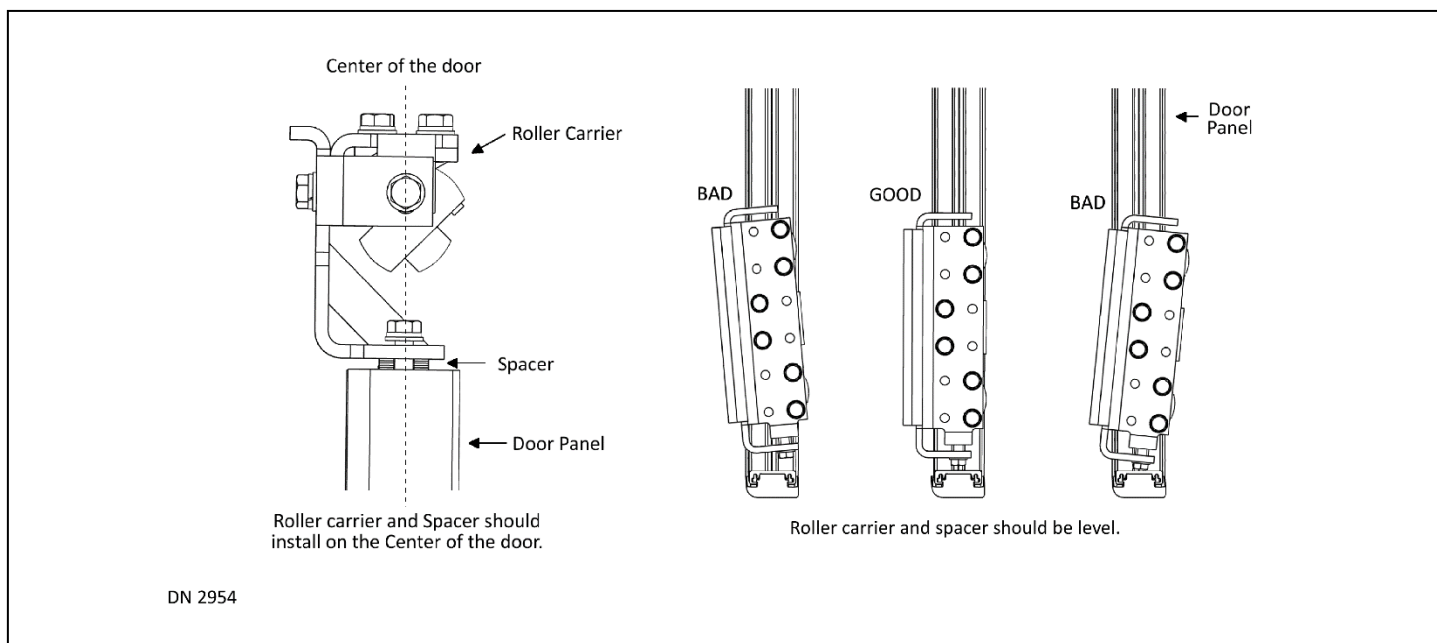
Attention: If the Roller Carrier is secured to the Door without proper measurements, or tilted/crooked, the Door may not run on the Track correctly, and/or Airtightness performance may fail.

1. Remove all hardware and mount Roller Carriers to both side.
 - The Middle Mounting Plate is reserved for the Spring Mechanism.
2. Place(1-8) Spacers between the Top of Door, and Roller Carrier (Normally place 5 Spacers).
 - Spacers are used to lower the Slide Door. (8) Spacers for each Roller Carrier have been provided by NABCO.



3. Move for proper position. From the edges of the door to edges of the bottom of the Roller Carriers, like below:
(Doesn't include Rubber bumper.)

- GT-9100 and GT-9300, and (GT-9200 without a handle): 2-15/16" (75mm)
- GT-9200 with a handle: 4-15/16" (125mm)



Attention: The position and angle of the roller carriers are very important. If not installed correctly, airtightness and soundproofing may be compromised.

4. Ensure each Roller Carrier and Spacer are in the center of the door, square and level.
5. Fully tighten (2) M8x30 Hex Head Bolt.

SECTION 14.3: INSTALL THE SPRING MECHANISM TO DOOR

The Spring Mechanism is utilized to assist the Opening Force of the Slide Door:

- ▶ The looser the spring coils, the harder it will be to open the slide door.
- ▶ The tighter the spring coils the easier it will be to open the slide door.

14.3.1 Set Preload (Spring Force)

Preload must be adjusted according to the mass of the Slide Door. Once the mass is determined the Spring can be tightened/ loosened according to a Set Length of the Spring.

1. Measure the full length and full width of the Slide door.
2. Calculate the Door Weight using Table 2.
3. Determine the "L" dimension from Table 3 according to the Door Weight.

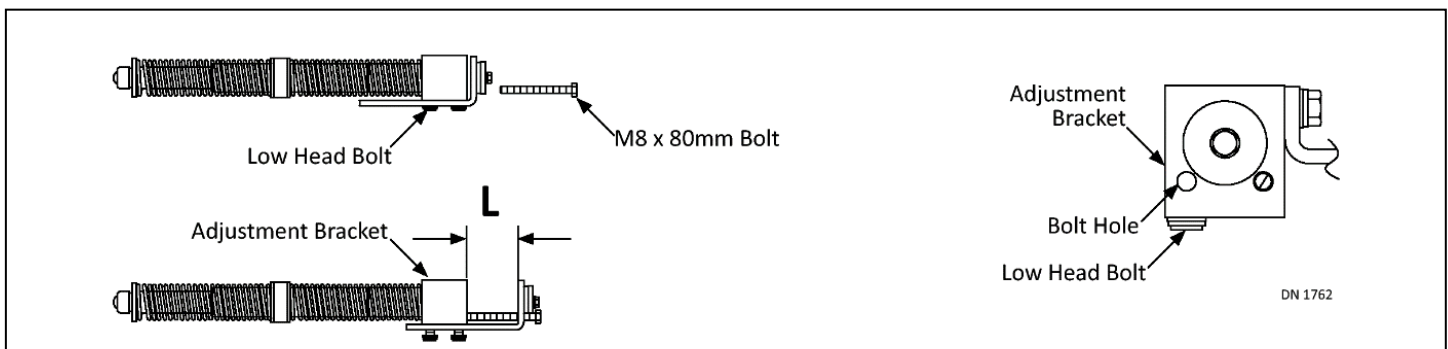
Note: Set Length is only to be used as a guideline. Actual adjustments must be made while testing the operation of the Door.

Table 2 Door weight calculation chart

Series	Material of the Door Skin	PSI [lbs/in.^2]
GT-9100	Aluminum	0.024
	Stainless	0.047
GT-9200	Glass	0.037
GT-9300	Aluminum	0.057
	Stainless	0.080

Table 3 "L" dimension chart

Door Weight [inch]	L Dimension [inch]	Door Weight [lbs]	L Dimension [inch]
154 or less	1/2"	243 to 264	1-11/16"
155 to 199	7/8"	265 to 286	2-1/16"
200 to 242	1-5/16"	287 to 330	2-7/16"

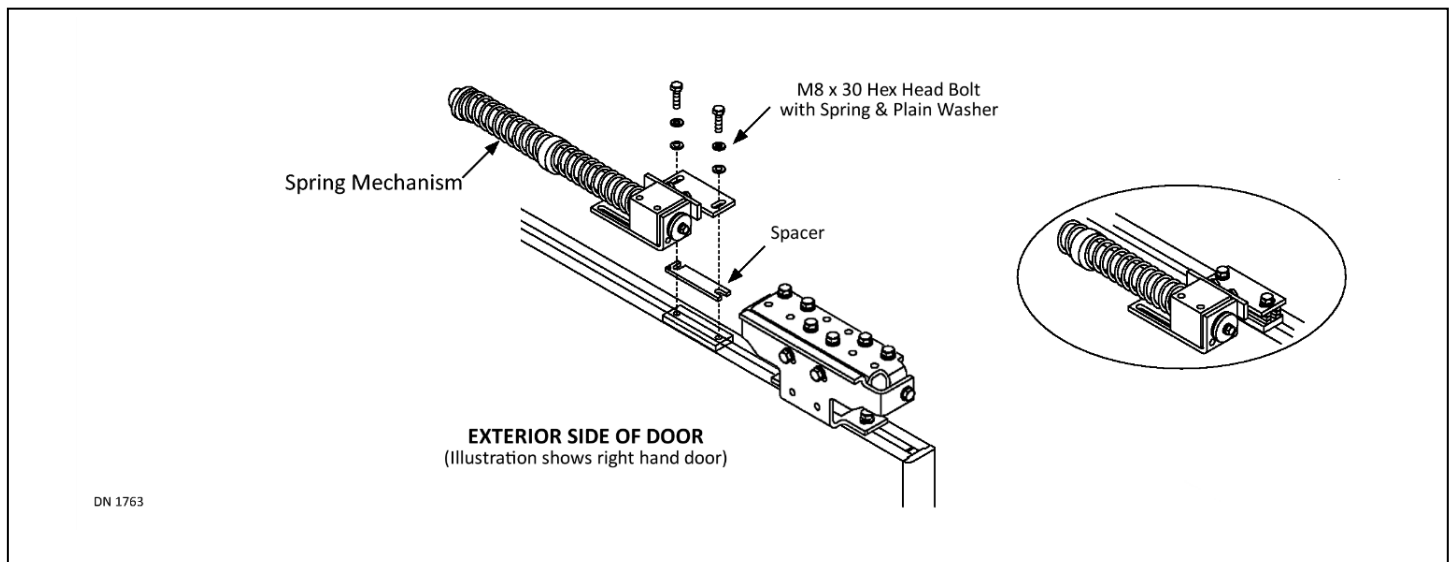


4. Obtain the Spring Mechanism and (1) M8 x 80mm Bolt provided by NABCO.
5. Go to the Adjustment Bracket located at the back of the Spring Mechanism. Locate a bolt hole on the same side as (2) Low Head Bolts.
6. Insert the M8 x 80mm Bolt as far as possible.
7. Go underneath the Bracket and loosen (2) Low Head Bolts.
8. Tighten the M8 x 80mm Bolt to compress the Spring until the Set Length Dimension has been achieved.
9. Tighten the (2) Low Head Bolts as tight as possible.

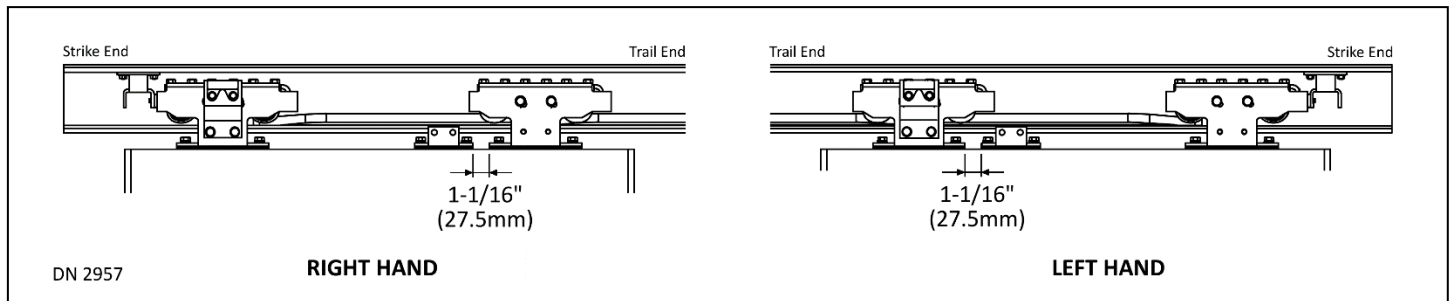
CAUTION Ensure the (2) Low Head Bolts are tight. If not, the main body of the Spring Mechanism may return causing injury to fingers, etc, between the Main Body and Adjustment Bracket.

10. Remove M8 x 80mm Bolt.

14.3.2 Install The Spring Mechanism



1. Mount Spring Mechanism to the Remaining Hanging Bracket in Between the Roller Carriers. Tighten loosely.
 - Insert the same number of spacers as Hanger Roller.



2. Move for proper position. Measure from side of Trail End Roller carrier to side of Spring from Mechanism bracket 1-1/16" (27.5mm).
3. Ensure the Spring Mechanism is square and level.
4. Tighten the (2)M8x30mm Hex Head Bolts.

SECTION 14.4: Hang Slide Door onto Header Track

WARNING

Do Not hang or detach Slide Door alone. Always work with another NABCO trained technician. Working alone may result in injury by fallen door.

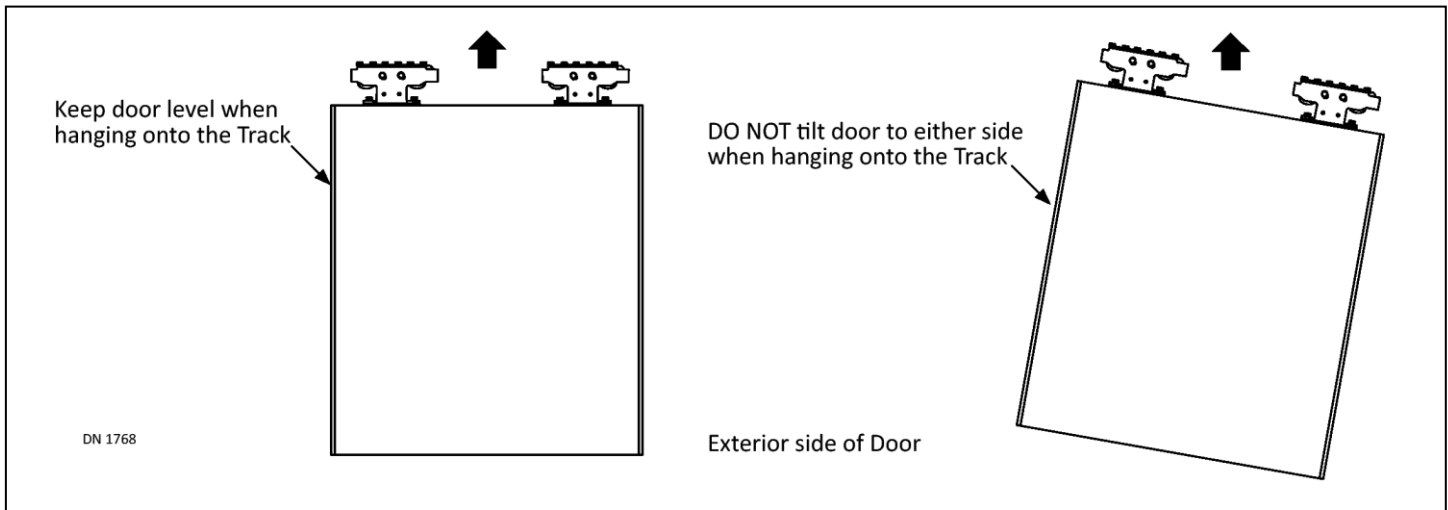
WARNING

When manually opening and closing the Slide Door; Do Not place Hand inside the Header, or between the Strike end of Door and Jamb Tube. Doing so may injure Hand.

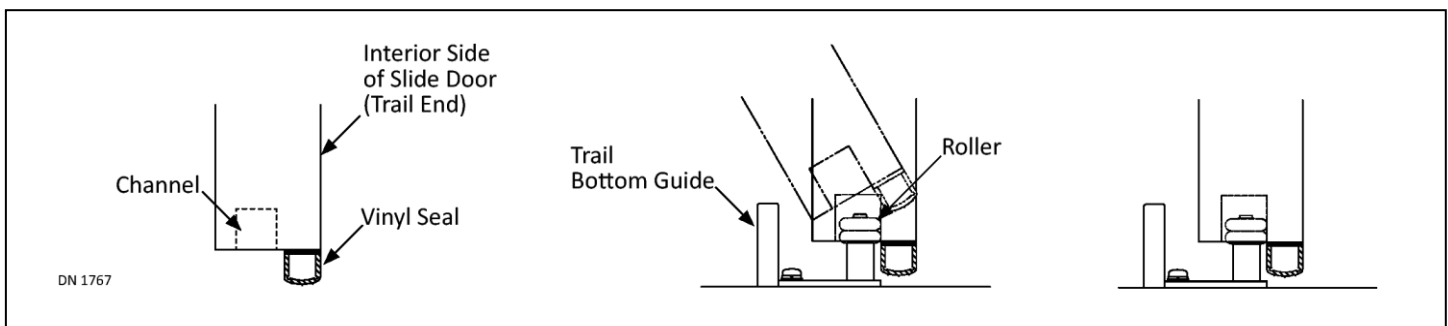
Attention:

When hanging the Slide door:

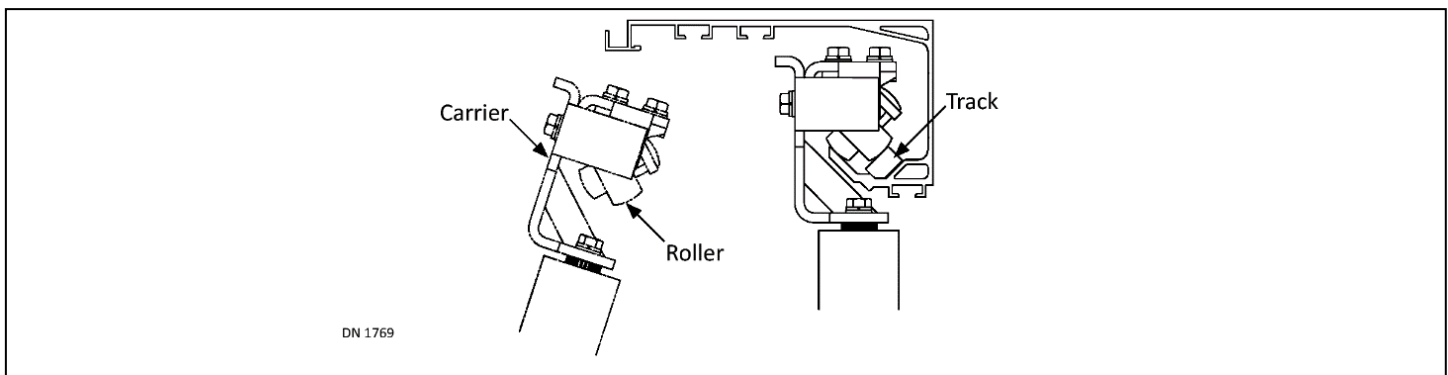
- Do Not apply weight to the:
 - Vinyl Seal at the bottom. Doing so may cause damage.
 - Bottom Guides. Doing so may cause damage.
- Ensure the Slide door is not tilted to either side. It will be too difficult to hang otherwise.



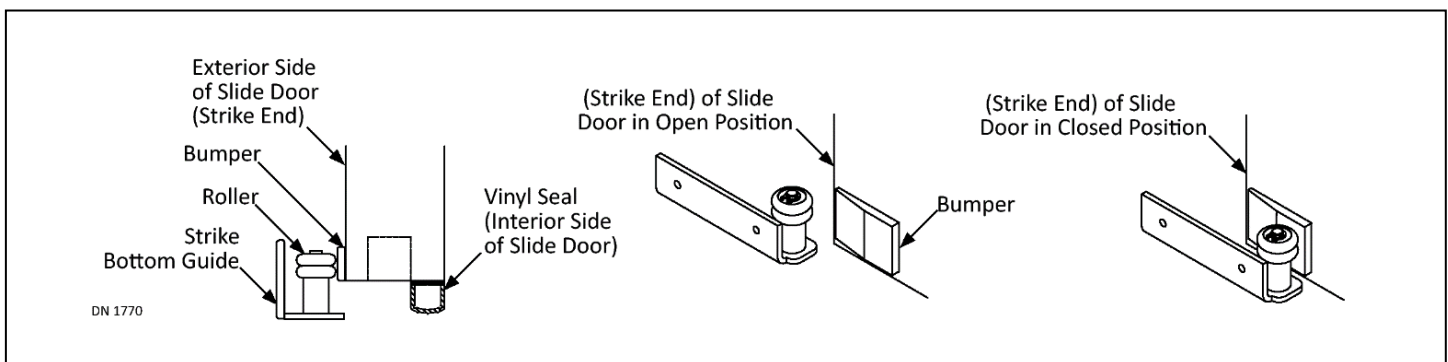
1. Locate the Vinyl Seal at the bottom of the Slide Door. Turn the Slide Door around so the Vinyl Seal is on the Interior side.



2. Tilt the Slide door towards the Exterior to insert the Bottom Guide Roller into the Trail End of Slide Door.



3. Lift the door, and place both Carriers onto the Track located inside the Header.

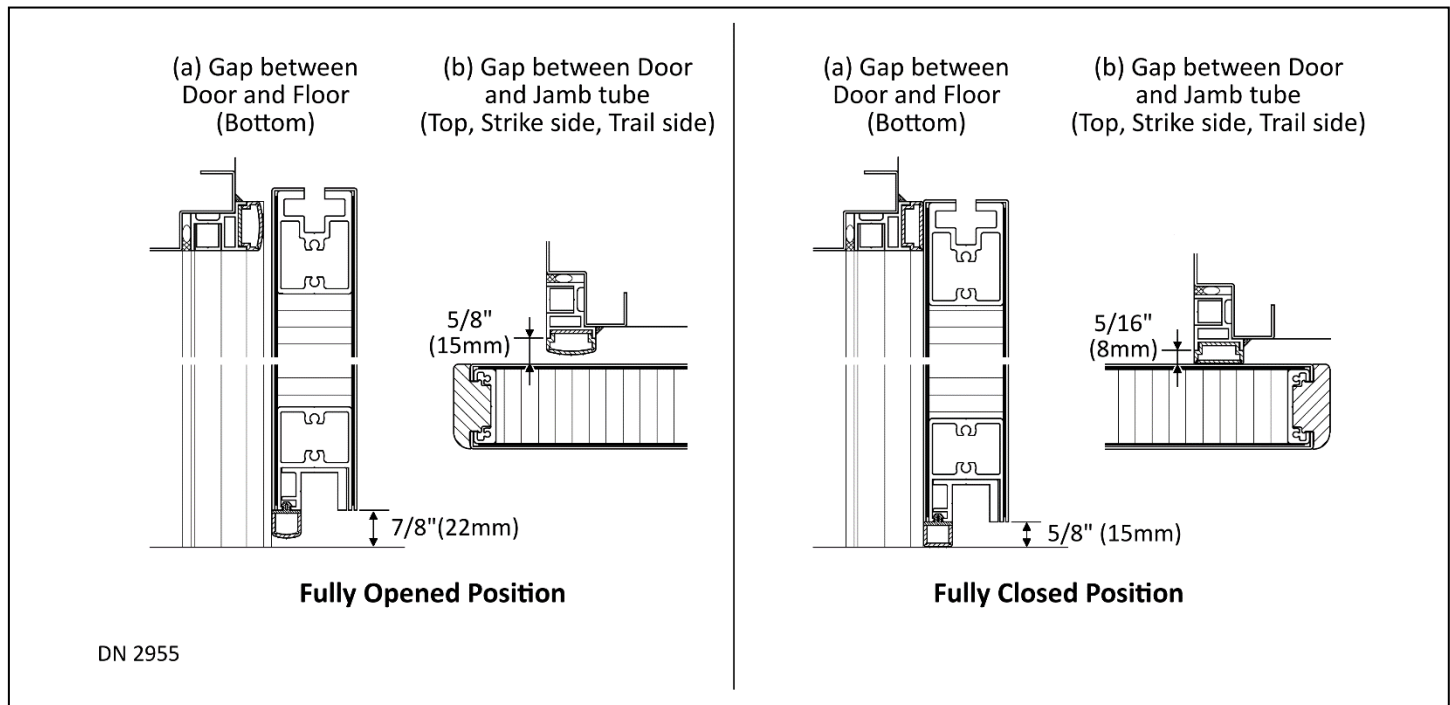


4. Move the door manually to Fully Closed Position and adjust the position of door stop so that the Bumper hits the Roller of Strike Bottom Guide.
5. Move the door manually to Fully Opened Position and finalize the position of the door stop.

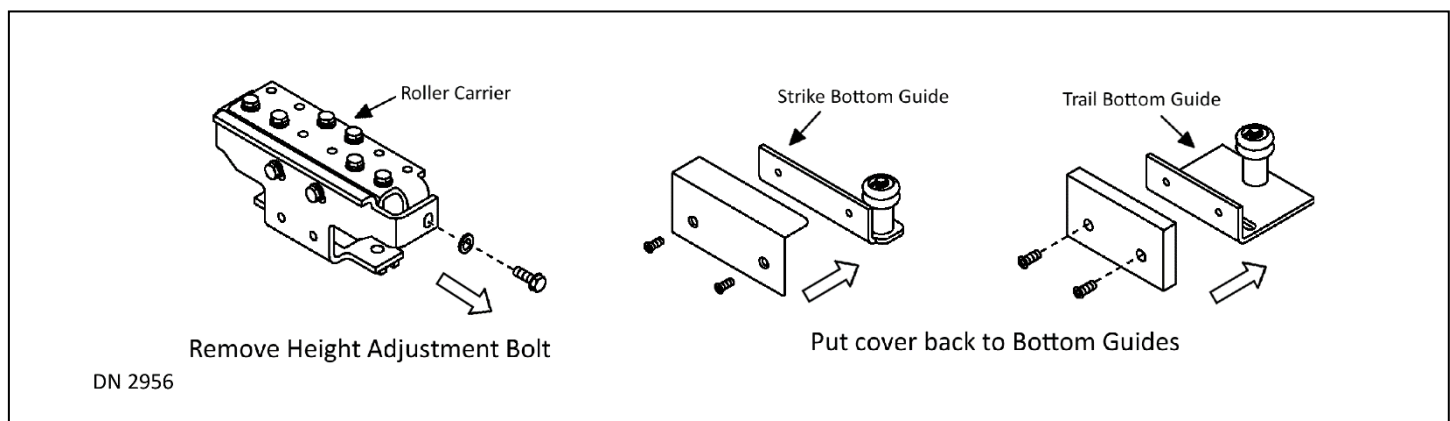
SECTION 14.5: Check Gaps

Attention: This adjustment is directly related to the Performance of Air tight and Sound insulation. Be sure to measure and adjust dimensions.

1. Check if all rollers are rotating when moving the door manually. If not, please refer to SECTION 22.2:.

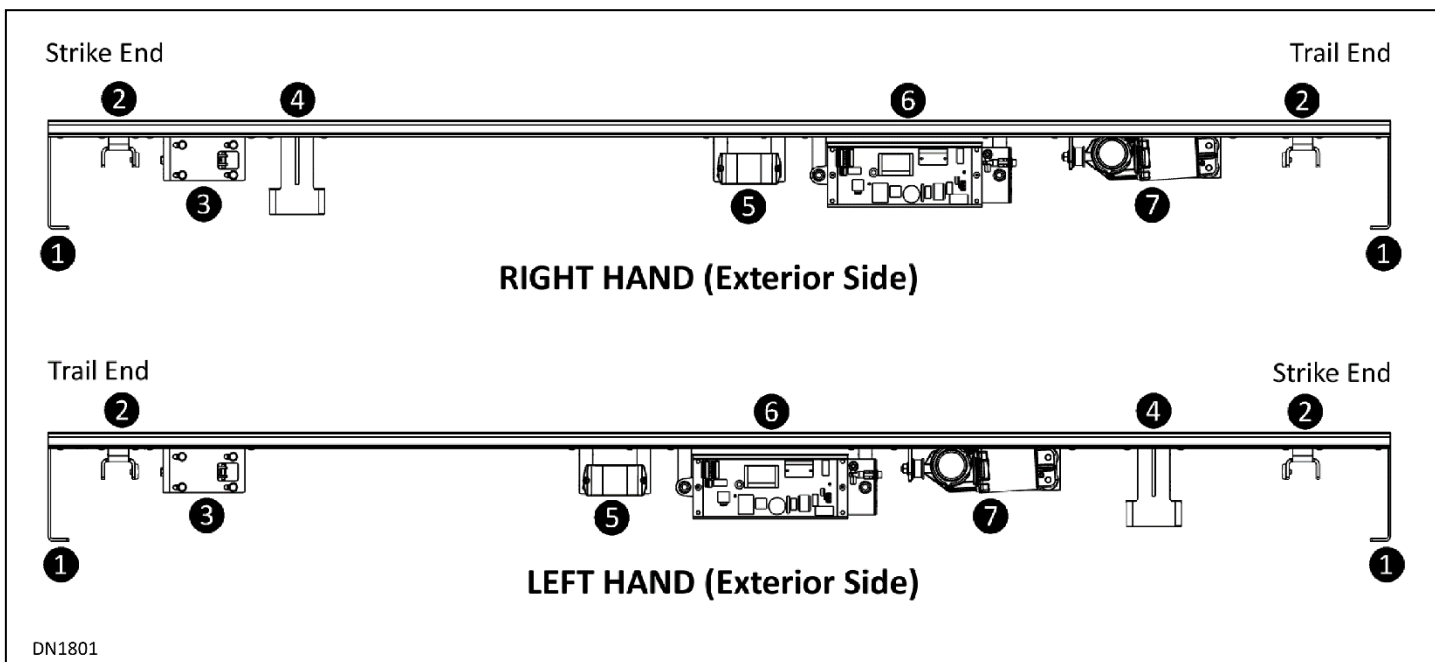


2. Measure the gap between Door and floor (a), Door and jamb tube (b) at Fully Opened position and Fully Closed position.
 - Fully Opened Position: (a) 7/8" [+1/32", -1/32"] (21mm-23mm)
(b) 5/8" [+1/32", -1/16"] (14mm-17mm)
 - Fully Closed Position: (a) 5/8" [+1/32", -1/32"] (14mm-16mm)
(b) 5/16" [+1/16, -1/32"] (7mm-10mm)
3. If exceeds the range or Door is not parallel to the floor, please refer to SECTION 22.3: - SECTION 22.6:



4. Remove the height adjustment bolts(M8x30) on the side of the Roller carriers.
5. Put bottom guide covers back on.

CHAPTER 15: INSTALL HEADER COMPONENTS

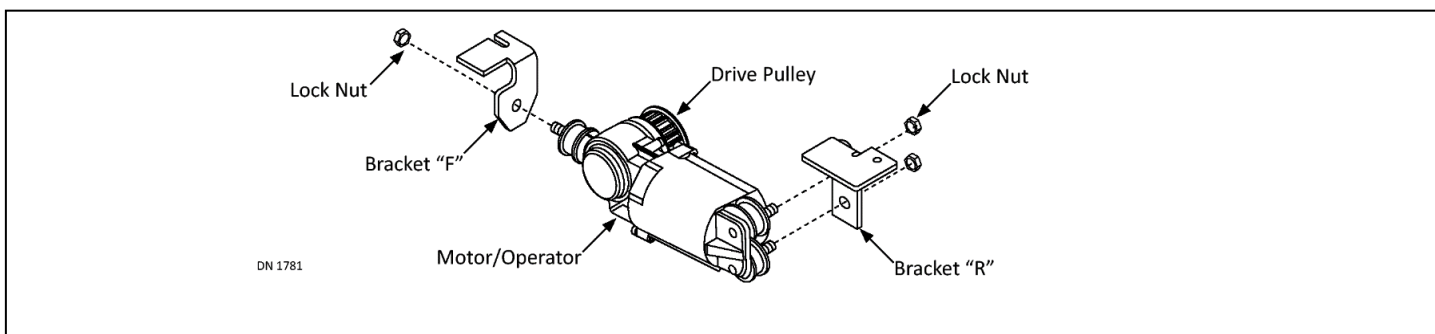


Item	Description	Item	Description
1	Cover Mounting Brackets	5	Holding Beam Controller & Controller brackets
2	Door Stops	6	Opus & Controller brackets
3	Idler Pulley	7	VS-150 Motor/Operator & bracket F/R
4	Spring Mechanism Receiver	-	

* For Service parts details, refer to CHAPTER 25:.

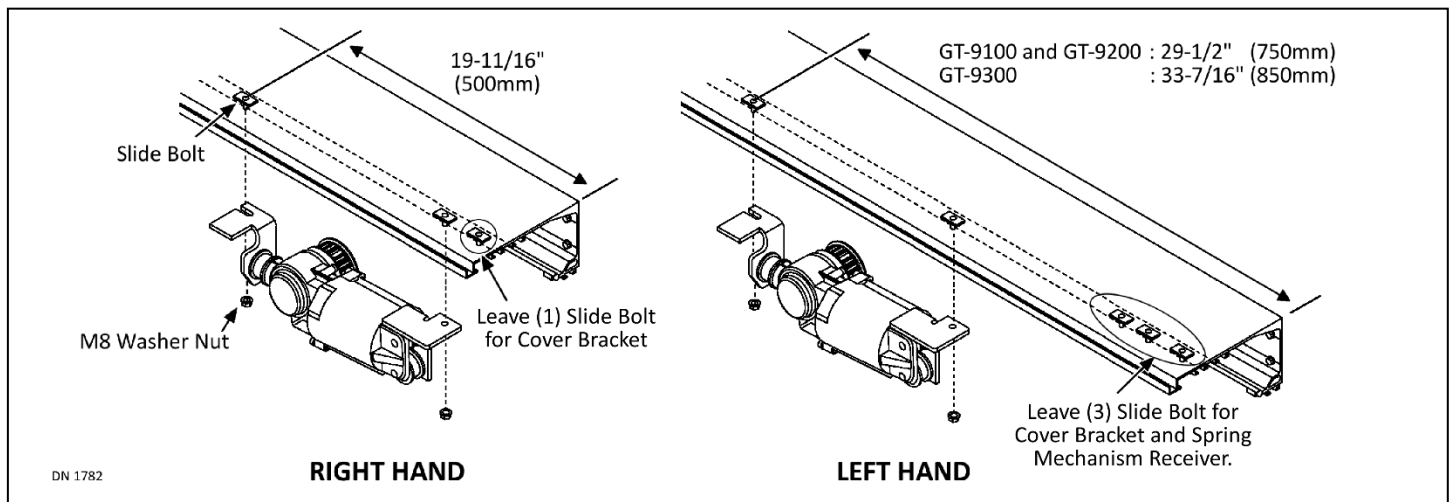
SECTION 15.1: Assemble & Secure Motor/Operator

15.1.1 Assemble Motor/Operator



- Obtain the Motor/Operator Parts Kit provided by NABCO.
 - Bracket "F" has no bolt hole on the top, and (1) bolt hole on its side.
 - Bracket "R" has (1) bolt holes on the top, and (2) bolt holes on the back.
- Turn the Motor/Operator so the Drive Pulley is facing the back of Header (once installed).
- Turn Bracket "F" so the top has (1) bolt hole, and the side has (1) bolt hole facing the Motor/Operator.
- Slide Motor Bracket "F" onto the Bolt protruding from the end of Motor/Operator. Secure with (1) Lock Nut.
- Turn Bracket "R" so (2) bolt holes are on top and (2) bolt holes face the back of Header (once installed).
- Slide Motor Bracket "R" onto the Rubber Bushings located at the back of Motor facing the Header (once installed). Secure with (2) Lock Nuts.

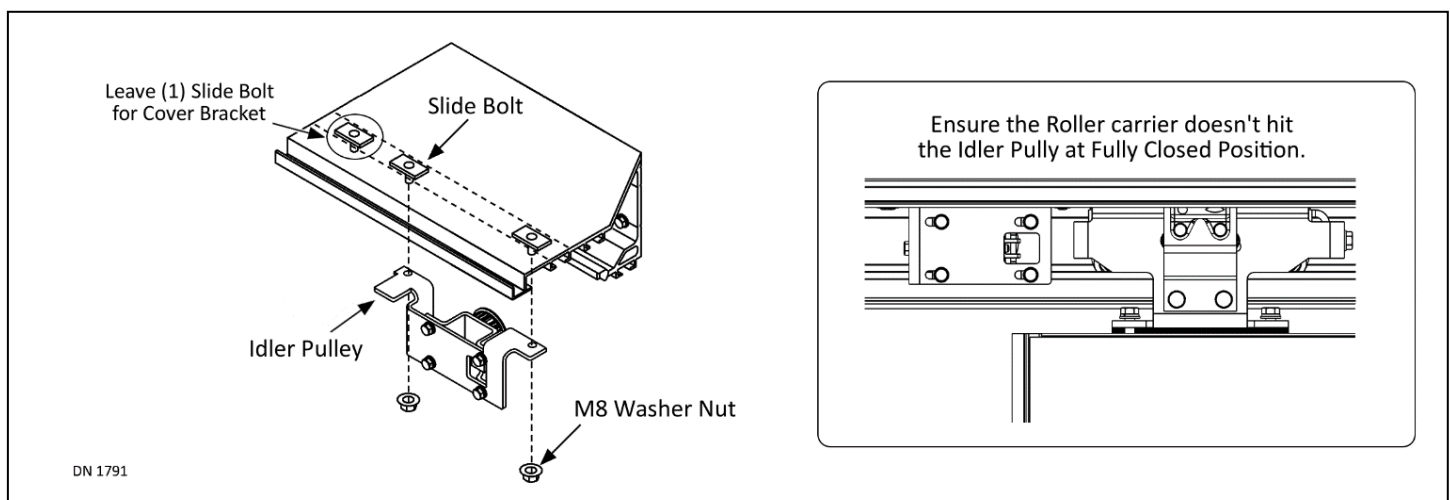
15.1.2 Secure Motor/Operator to Header



1. Secure Motor/Operator to the right side as viewed from the Exterior. Mounting location depends on the Door hand:

- ▶ Right hand: Leave (1) Slide Bolt, Slide Bolt on Pulley side to be 19-11/16" (500mm):
- ▶ Left hand: Leave (3) Slide Bolt, Slide Bolt on Pulley side to be :
 - GT-9100 and GT-9200: 29-1/2" (750mm)
 - GT-9300: 33-7/16" (850mm)

SECTION 15.2: Install the Idler Pulley



1. Secure Idler Pulley to the left side as viewed from the Exterior, leave (1) Slide Bolt and loosely tighten the Idler Pulley with M8 Washer Nuts.
2. Fully Close the Slide Door. Ensure the Roller Carrier does not hit the Idler Pulley. Tighten Nuts.
 - a. If the Carrier hits the Idler Pulley, slide the Idler Pulley until clearance can be achieved.

SECTION 15.3: Install the Drive Belt

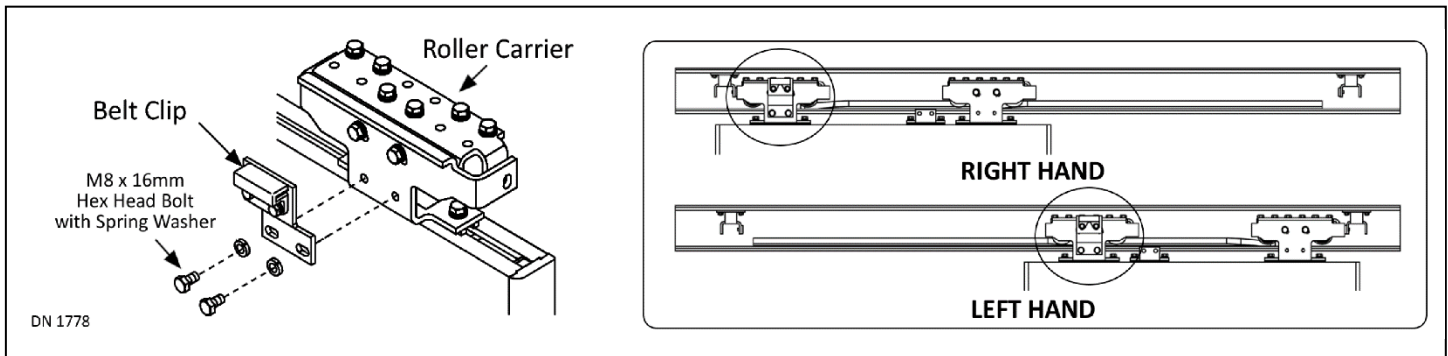
WARNING

When manually opening and closing the Slide Door; Do Not place Hand inside the Header, or between the Strike end of Door and Jamb Tube. Doing so may injure Hand.

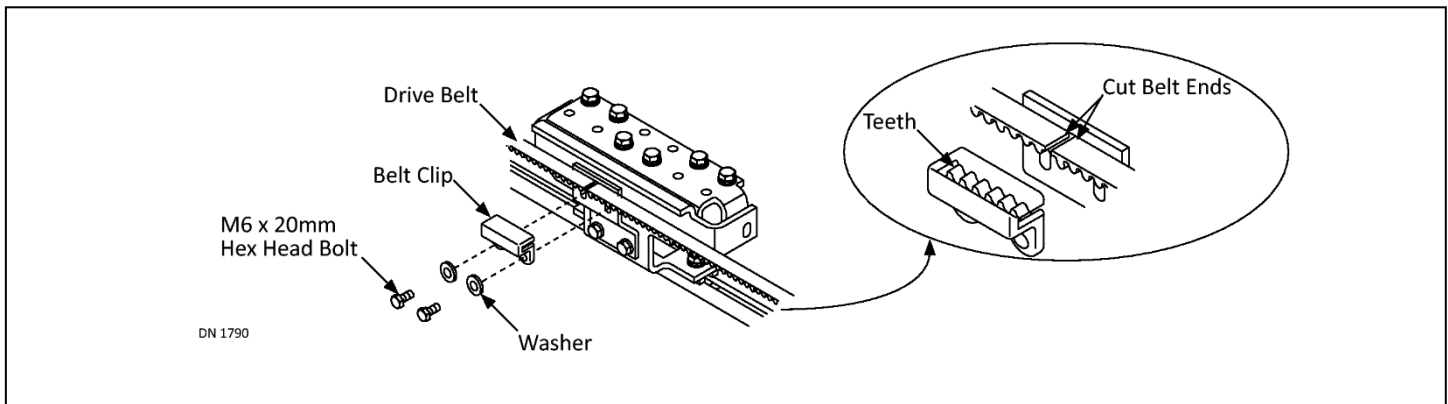
Attention:

Test the Drive Belt Manually, and Automatically to ensure the Drive Belt doesn't jump. Failure to make immediate adjustments may damage the Slide Door system.

15.3.1 Install the Belt Clip

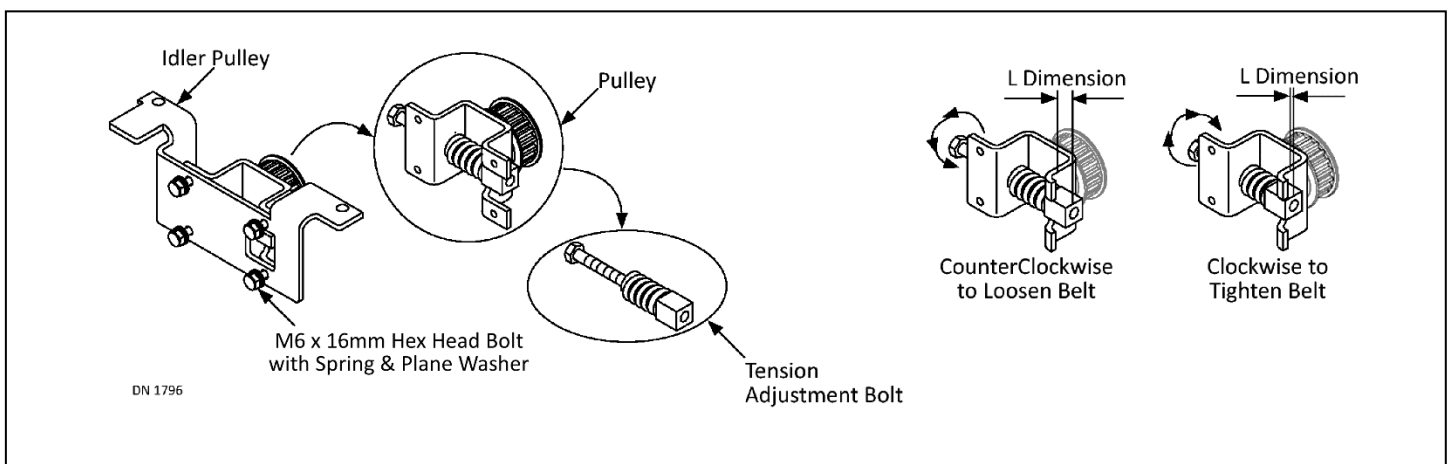


1. Attach Belt Clip on the left side of the Roller Carrier when looking at the door from Exterior side.
2. Remove the Belt Clip from the Belt Clip.



3. Wrap one end of the Drive Belt around the Drive Pulley, and the other end around the Idler Pulley.
4. Connect the (2) Belt ends as close as possible. Cut off any excess Drive Belt.
5. Slide the Belt Clip onto both ends of the Drive Belt.
6. Secure the Belt Clip with (2) M6 x 20mm Hex Bolts and (2) Washers.
7. Slide the Idler Pulley away from the Roller Carrier until the Drive Belt reaches the appropriate tension.
8. Fully tighten (2) M8 Washer Nuts for Idler Pulley.

15.3.2 Adjust the Drive Belt

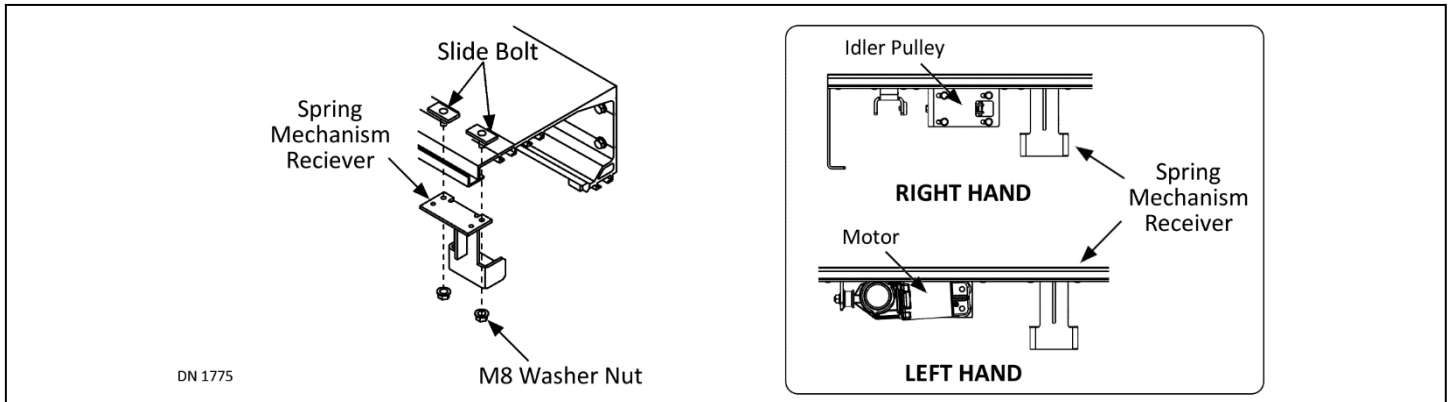


Attention: Test the Drive Belt Manually, and Automatically to ensure the Drive Belt doesn't jump. Make adjustments accordingly. Failure to make immediate adjustments may damage the Slide Door system.

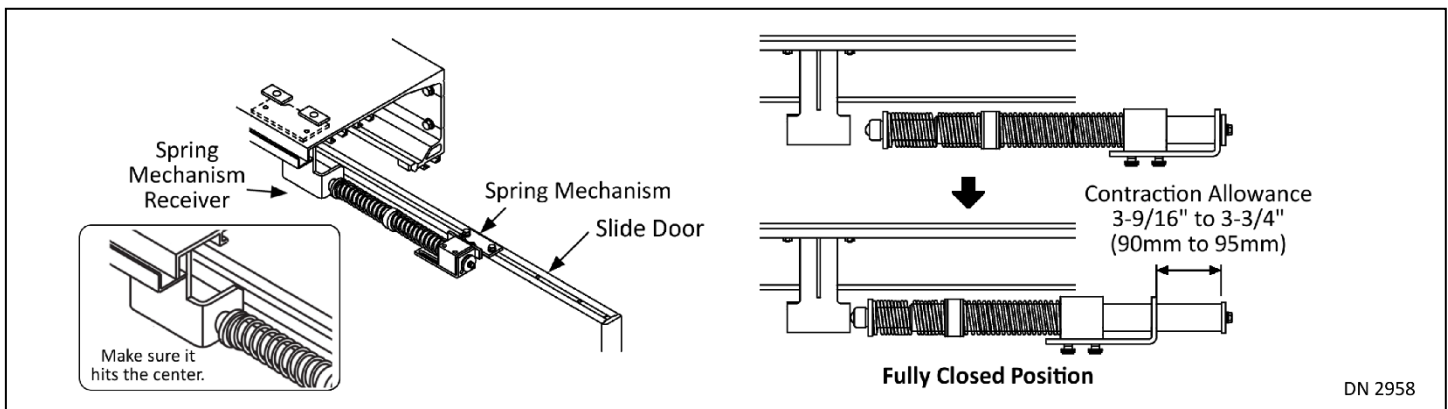
1. Go to the Idler Pulley Assembly. Loosen (4) M6 x 16mm Hex Head Bolts just enough for the Springs and Washers to no longer butt up against the Face Plate. Do Not remove the Hex Head Bolt assembly.
2. Turn the Tension Adjustment Bolt:

- ▶ Clockwise to Tighten the Drive Belt (long in length).
 - The Pulley will move towards the Center of Header.
 - ▶ Counterclockwise to Loosen the Drive Belt (short in length).
 - The Pulley will move towards the Strike End of Header.
3. Temporarily Tighten the (4) M6 x 16mm Hex Head Bolts.
 4. Manually, Open and Close the Slide Door to ensure the Drive Belt no longer jumps.
 5. Tighten the (4) M6 x 16mm Hex Head Bolts.

SECTION 15.4: Install the Spring Mechanism Receiver

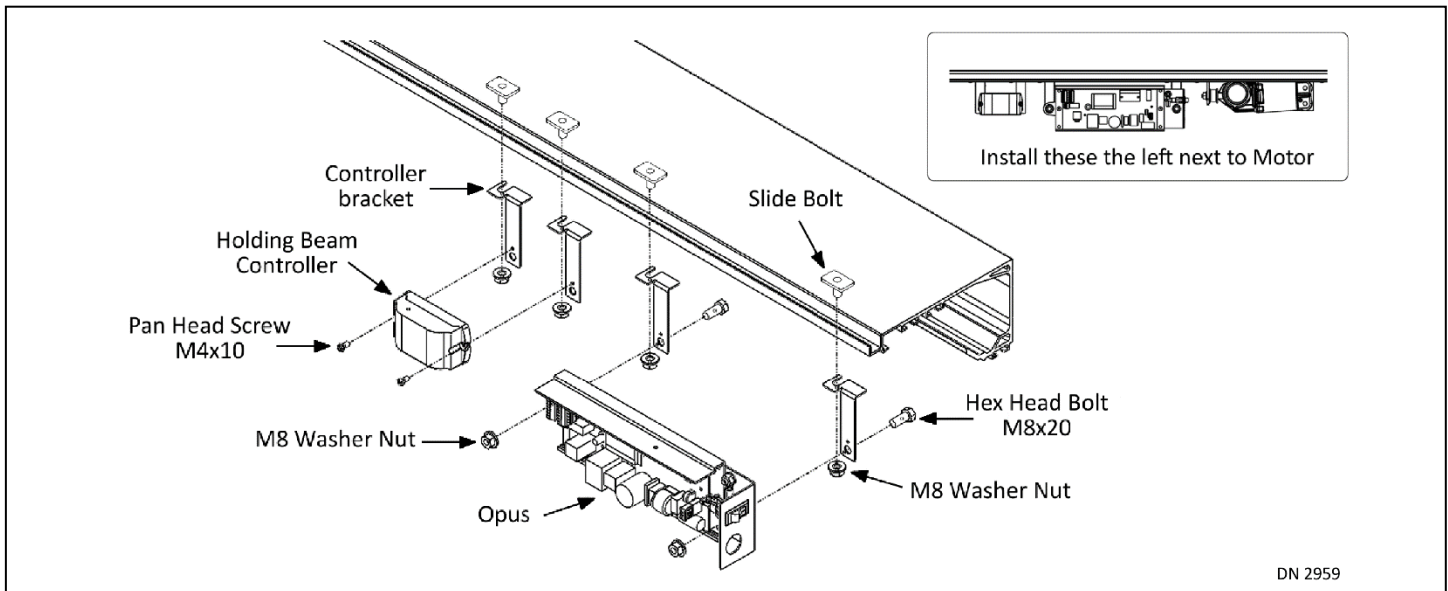


1. Secure the Spring Mechanism Receiver Right next to:
 - ▶ Right hand: Idler Pulley
 - ▶ Left hand: Motor/Operator
 with (2) M8 Washer Nuts.



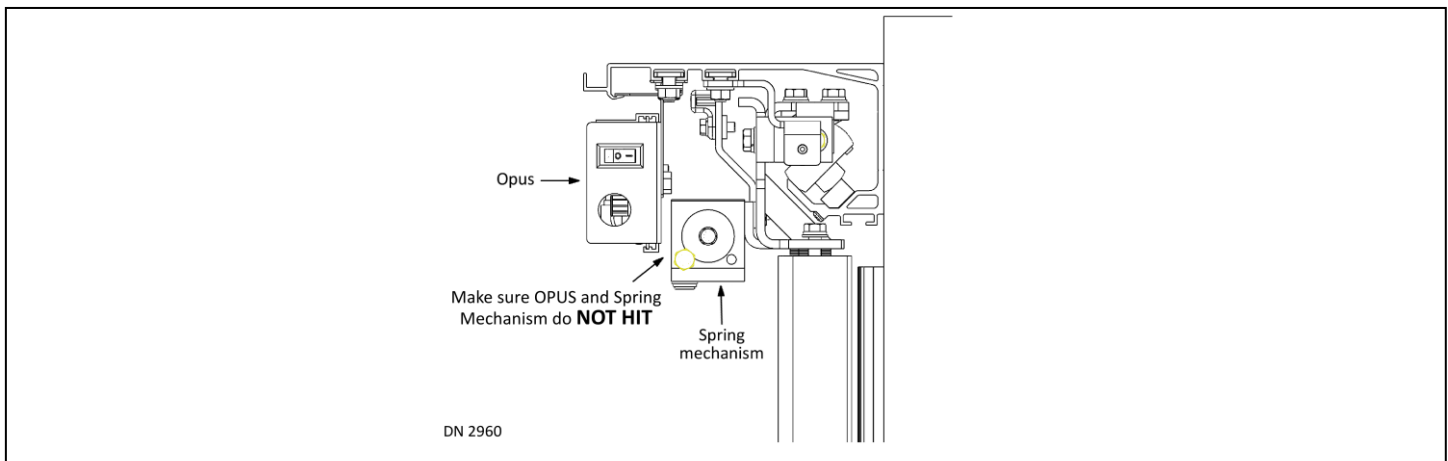
2. Manually move the door to Fully Closed Position, check if the length from the bracket to the end of the Spring Mechanism (Contraction Allowance) 3-9/16" to 3-3/4" (90mm-95mm)
3. If Contraction Allowance is NOT within the above values, move the Spring Mechanism Receiver.
4. Repeat 2 and 3 until the value of Contraction Allowance is within the above values.

SECTION 15.5: Install the Opus Controller and Holding Beam Controller



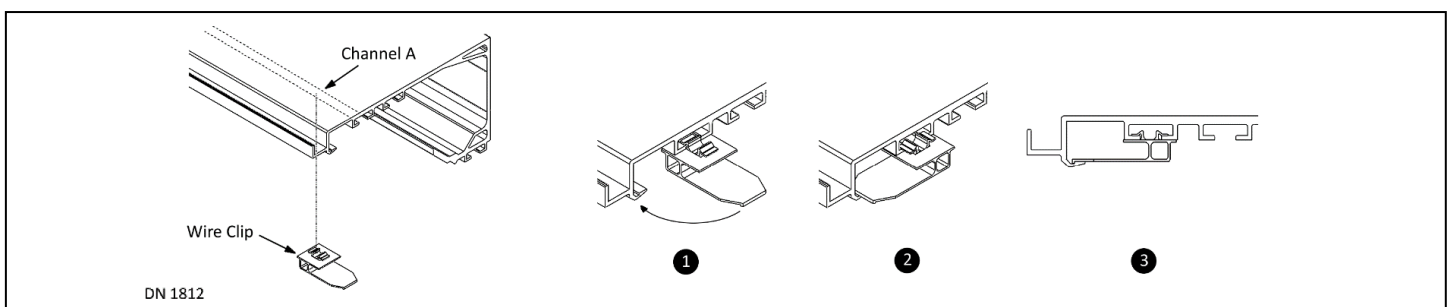
Attention: If the M8 Washer is tightened too hard, there is a risk that the controller bracket will bend and collide with the Roller Carrier when the door is moving.

1. Combine Opus Controller and (2) Controller bracket with (2) Hex Head Bolt M8x20mm, Insert bolts from back side to front side, then tight with (2) M8 Nuts.
2. Move Slide Bolt the Left next to the Motor/Operator, Secure (2) Controller bracket with M6 Washer Nuts carefully.
3. Combine Holding beam and (2) Controller bracket with (2) Pan Head Screw M4x10mm.
4. Move Slide Bolt the Left next to the Opus Controller, Secure (2) Controller bracket with M6 Washer Nuts carefully.
5. Move the door manually and make sure that the Spring Mechanism doesn't hit the Opus or Holding Beam Controller.



SECTION 15.6: Install Wiring Clips

1. Where wiring needs to be supported, Insert Wire Clips within Channel "A".
 - a. Use Channel "B" if other components will not allow clearance within Channel "A".



CHAPTER 16: 120 VAC GENERAL WIRING

WARNING

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

WARNING

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

CAUTION

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

CAUTION

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

Attention:

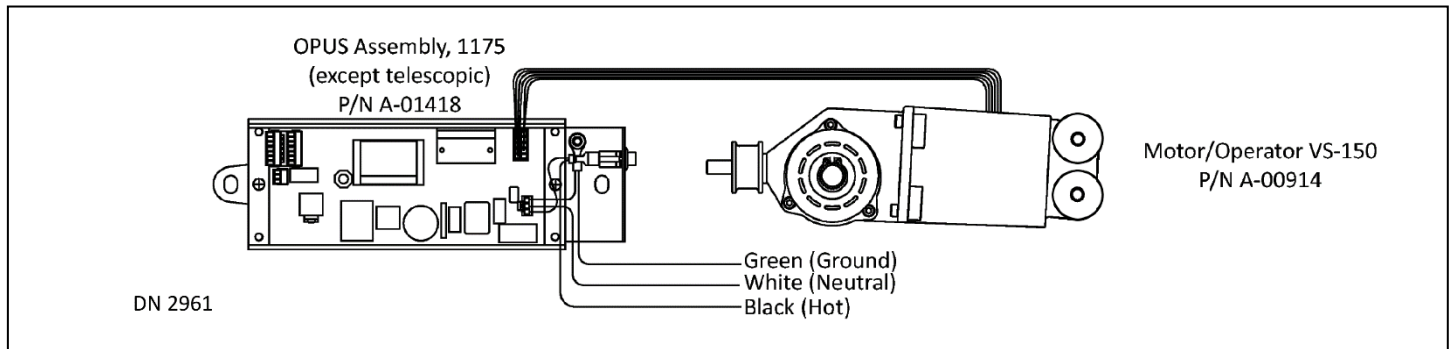
Insert all Incoming 120 VAC Power wires into the predrilled Electric Service Access Hole located at the left or right side of Header End Cap.

Attention:

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.

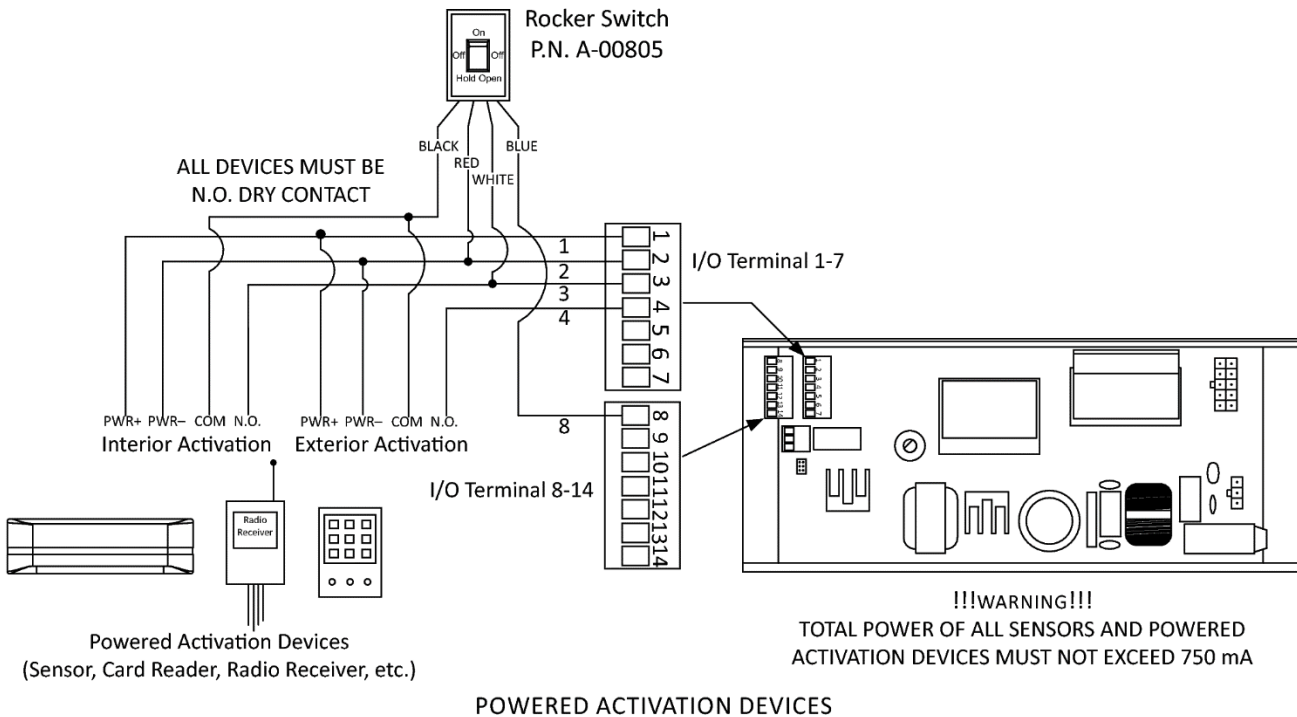
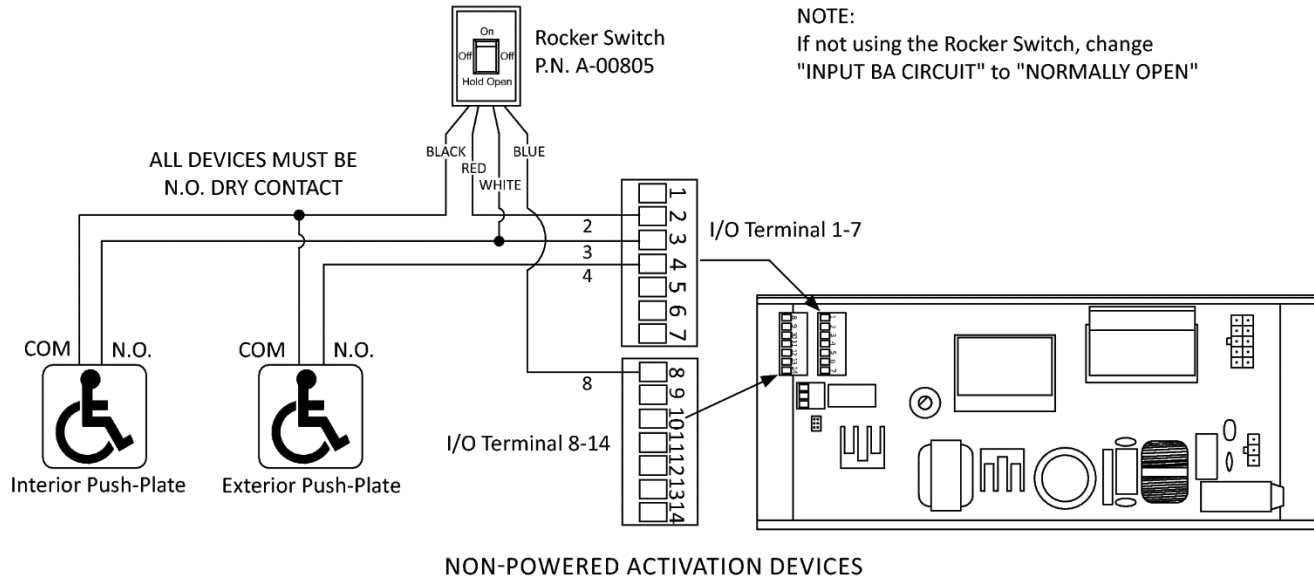
Note:

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



CHAPTER 17: GENERAL WIRING

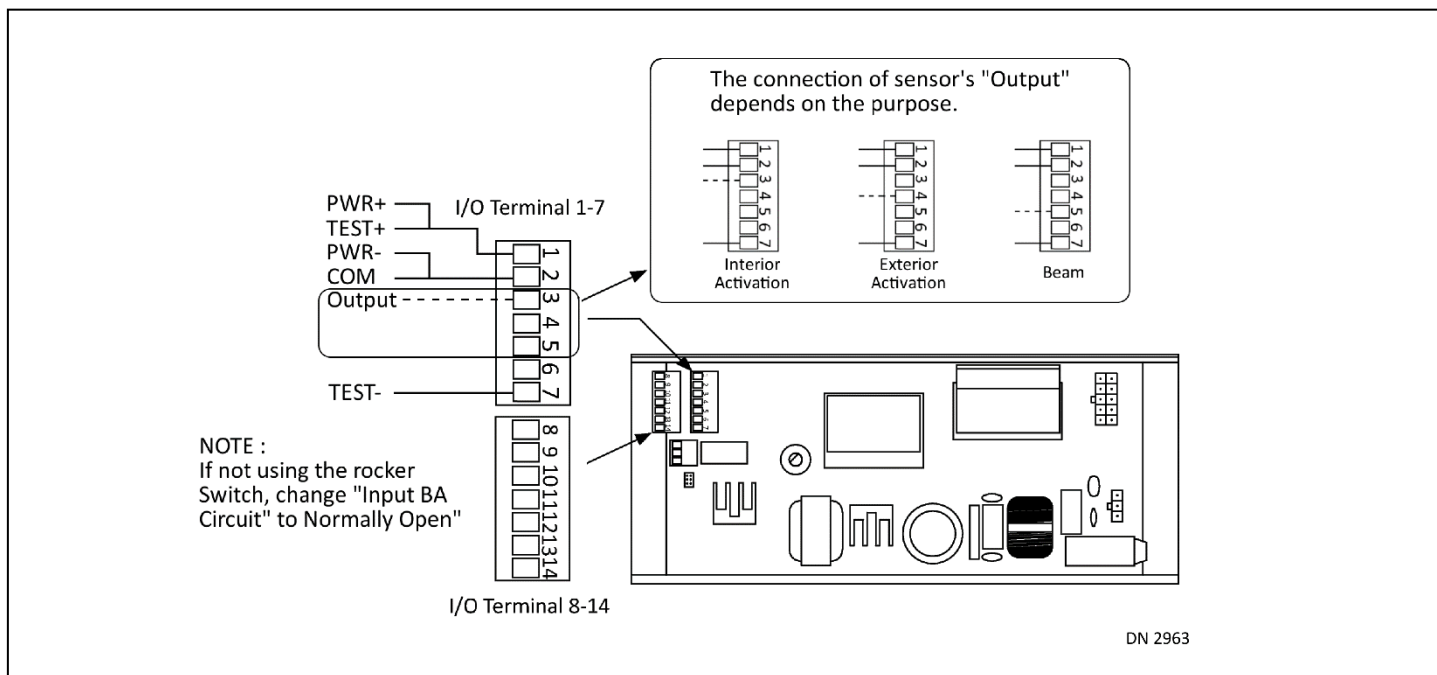
SECTION 17.1: Activation using ON/OFF/Hold-Open Switch



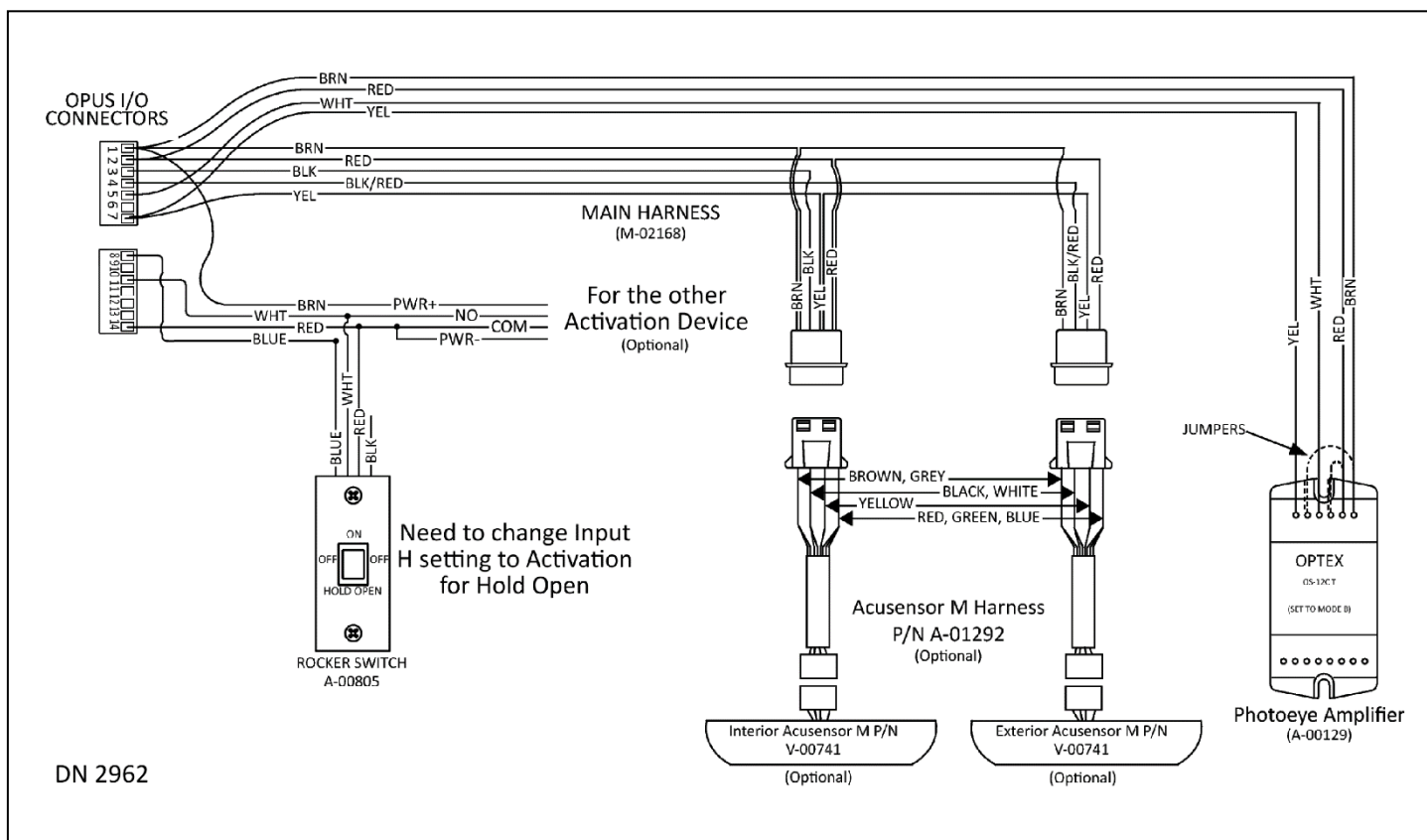
DN 1330

SECTION 17.2: Activation or Safety device with Monitoring

17.2.1 Directory wiring to the Opus Controller.



17.2.2 With Harness



CHAPTER 18: PROGRAMMING

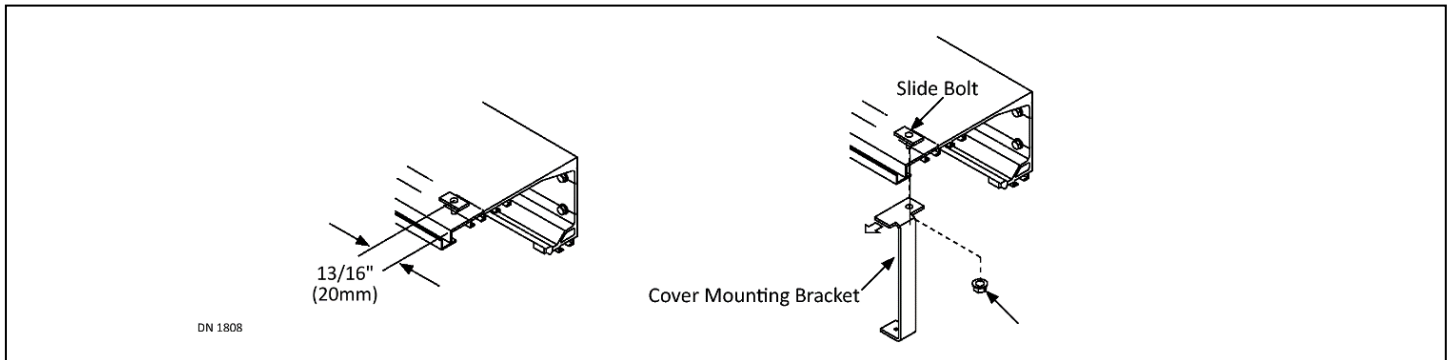
WARNING

When programming Opus; Do Not place Hand between the Drive belt and bracket. Doing so may injure your hand.

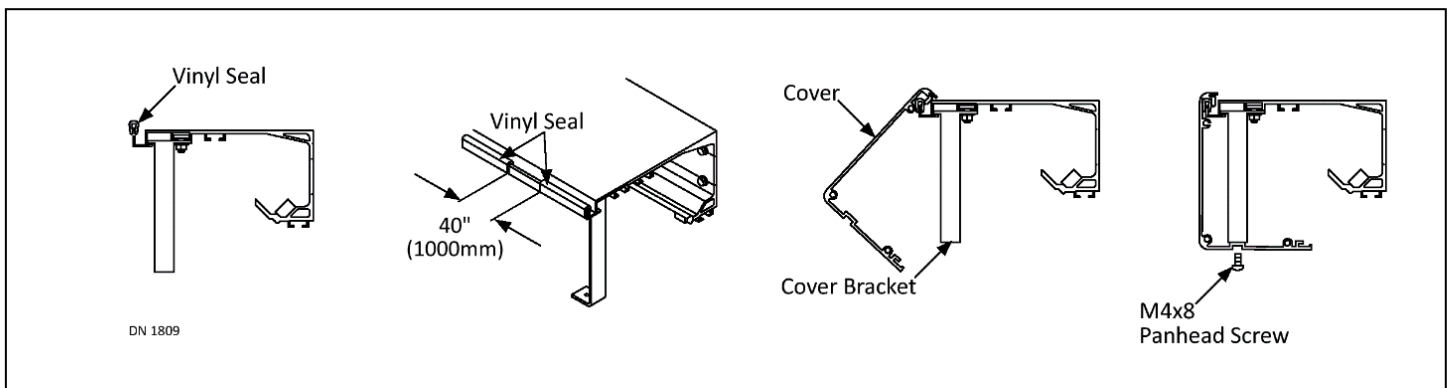
Note: If you don't know how to change the Opus setting, please refer to Opus Slide Wire & Program P/N C-00391.

1. Manually move the door from fully closed to fully open, making sure it does not collide with other parts.
2. Go to Setting menu & change Operator Type to "GT-1175 Opus Slide". and change some Input & Monitoring Setting depending on what you wired to the Opus.
3. Complete a Stroke Learning.
4. Measure the Specification which is required* ANSI 156.10 or ANSI 156.38, then adjust the programing or Spring to meet the ANSI standard. (For example, Door Speed, Opening Timer, Recycle Sensivity, Activation zone and more.)

CHAPTER 19: INSTALL THE HEADER COVER

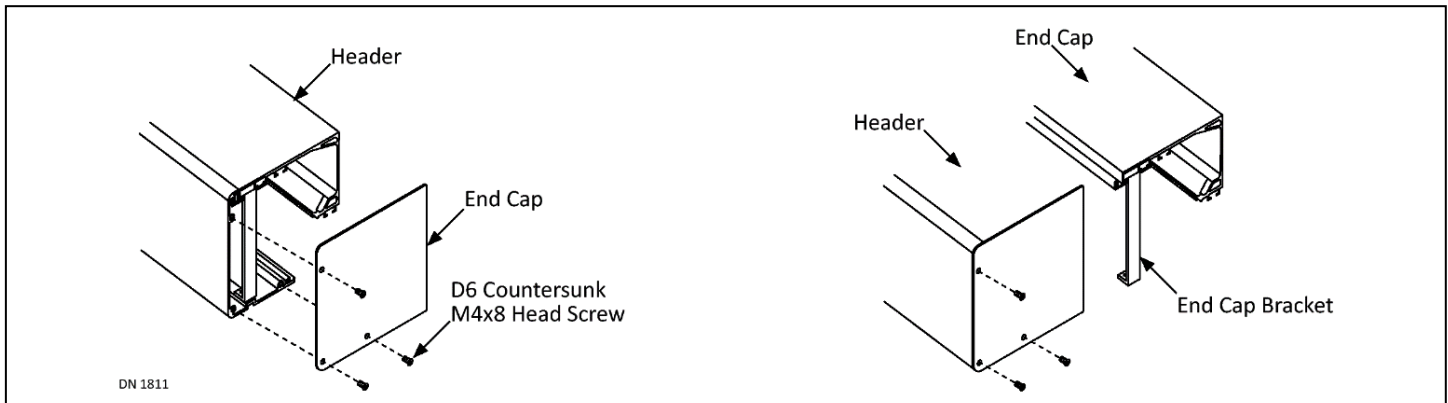


1. From each side of Header, measure 13/16" (20mm) towards the Center of Header. Insert (1) Slide Bolt through Channel "A" to that measurement.
2. Turn the Cover Mounting Bracket so both the top and bottom plates, face the inside of the Header; and the plate with the bolt hole extending from the Bracket is on Top, facing the back of Header (once installed).
3. Secure each Cover Mounting Bracket to the Slide Bolt with (1) M8 Washer Nut.



4. Obtain the Vinyl Seal. The Vinyl Seal may need to be cut more than once. If so:
 - a. Slide the Vinyl Seal onto the Lip of Header at both ends. It is critical that both ends have Vinyl Seal.
 - b. Space the rest of the Vinyl Seal 40" (1000mm) apart. Slide onto the lip of Header.
5. Slide the Cover onto the Lip of Header.
6. Swing the Cover to the fully closed position.
7. Secure the Cover to each Bracket with (1) M4x8 Pan Head Screw.

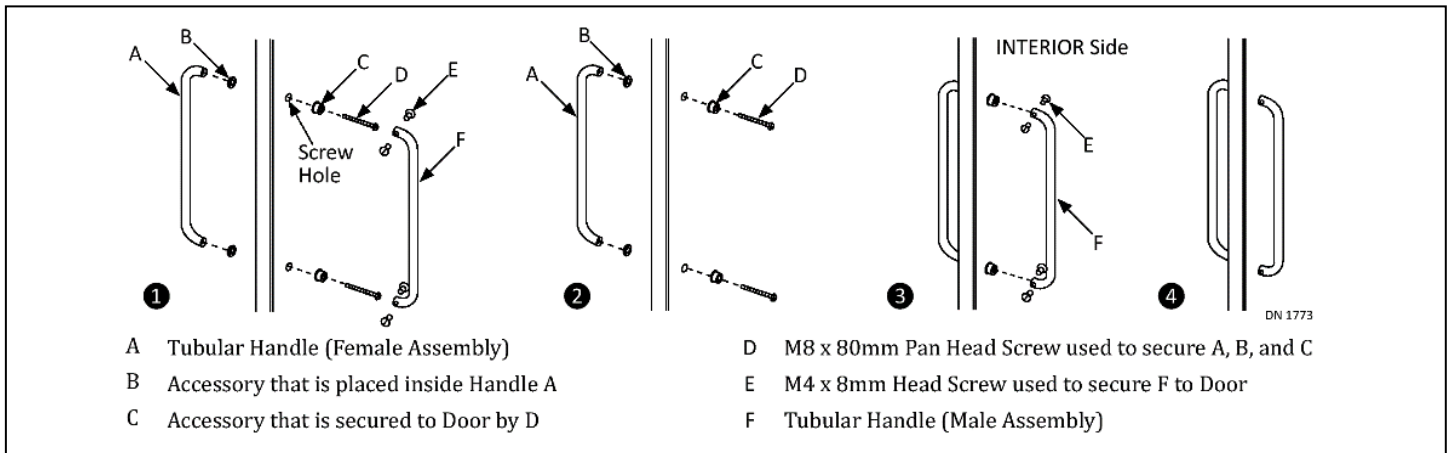
CHAPTER 20: INSTALL THE END CAPS



- Secure the (1) End Cap to each side of the Header with (3) D6 Countersunk, M4x8 Head Screws:
 - ▶ After the Header Cover has been installed.
 - ▶ Before the Header Cover has been installed (for restrictive openings).

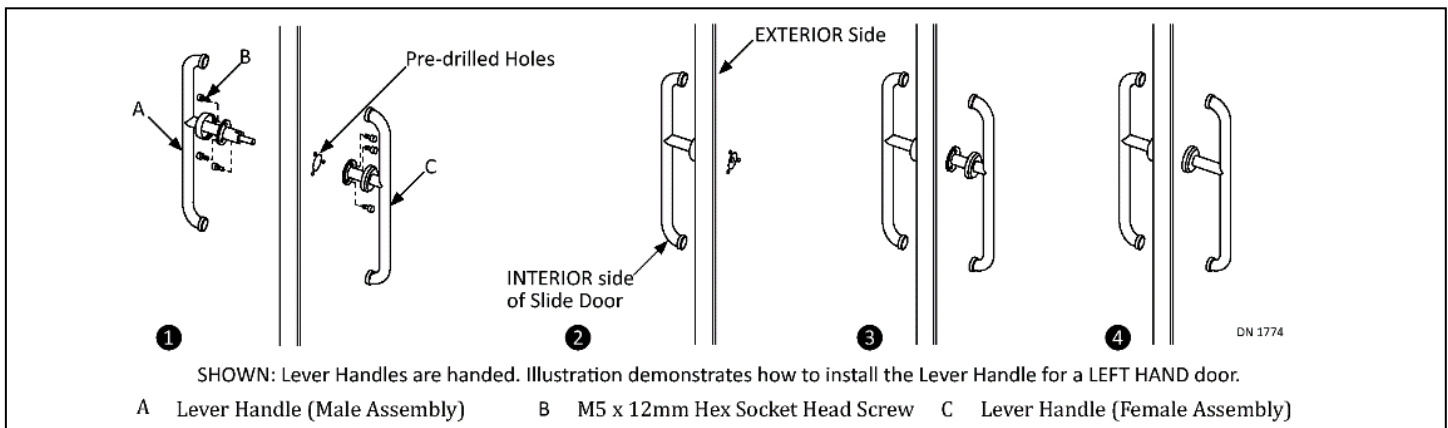
CHAPTER 21: INSTALL THE DOOR HANDLE

SECTION 21.1: Tubular Handle



SECTION 21.2: Lever Handle

- Install the Male Assembly (A) on the: Exterior side for RIGHT Hand Door; Interior side for LEFT Hand Door.



SECTION 21.3: Recessed Handle

The Recessed Handle is installed at the NABCO Factory.

CHAPTER 22: ADJUSTMENTS

WARNING

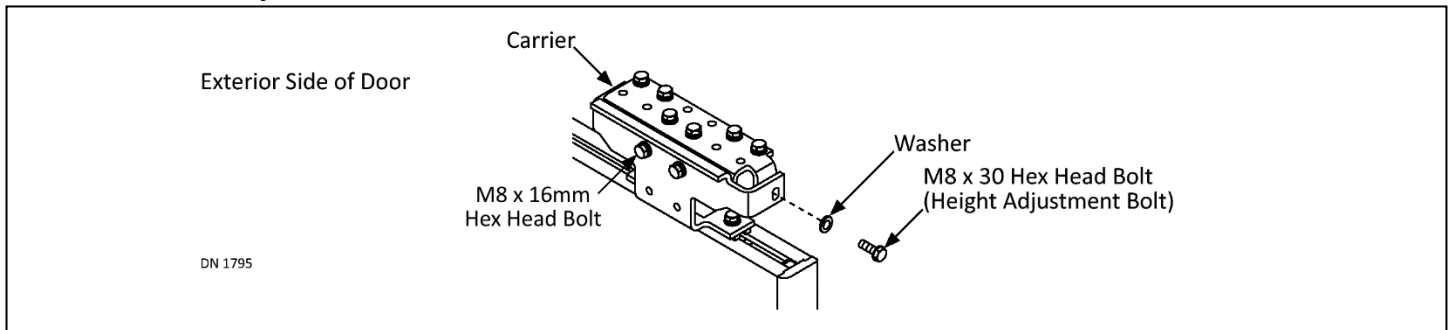
Shut the installation site, branch Circuit Breaker OFF. Failure to do so may result in serious personal or fatal injury. When uncertain whether power supply is disconnected, always verify using a voltmeter.

SECTION 22.1: Adjust the Spring Mechanism

1. Adjust the Slide Door for proper operation according to below.

Check	Adjust
Door must Fully Close.	If door does not fully close during automatic closing operation: Loosen the Spring Force. Adjust the way the Door is hung (contact between Vinyl Seals may be too tight).
Door must not Open from Fully Closed position when Power is turned OFF.	If door starts to open: Loosen the Spring Force.
Close-Safety must not occur when the Spring Mechanism comes into contact with the Spring Mechanism Receiver.	If Close-Safety (reverse opening movement) occurs: When the door is running on the slope on the rail, loosen the Spring Force. Immediately after the contact, shift the position of the Spring Mechanism receiver in the Close direction.
Manually Open/Close the Slide Door when Power is OFF	If Open/Close manual operation is abnormally heavy (300 N or above) when Power is OFF: Tighten the Spring Force.

SECTION 22.2: Adjust Roller Movement within Track



WARNING

Do Not loosen (2) M8 x16mm Hex Head, Fixing Bolts too much. If loosened excessively, there is a risk that the Slide Door may fall down and cause injury.

Note: Adjustment required only if all rollers are not turning when moving the door.

1. Go to the side of Carrier. Remove (1) M8 x30mm Hex Head Bolt with Washer.
 - a. This is commonly referred to as the Height Adjustment Bolt.
2. Go to the front plate of Carrier. Locate and then slightly loosen (2) M8 x16mm Hex Head, Bolts.
 - b. Do Not excessively loosen. The Slide Door may fall down and cause injury.
3. To adjust Roller Height, manually slide the Door to the left or right about 2" (50mm) to ensure all Carrier Rollers are properly seated within the Header Track.
4. Repeat Step 3 until Rollers firmly touch the Track and rotate appropriately.
5. Tighten the (2) M8 x16mm Hex Head, Fixing Bolts.
6. Replace (1) M8 x30mm Hex Head Bolt, and (1) Washer. Tighten.

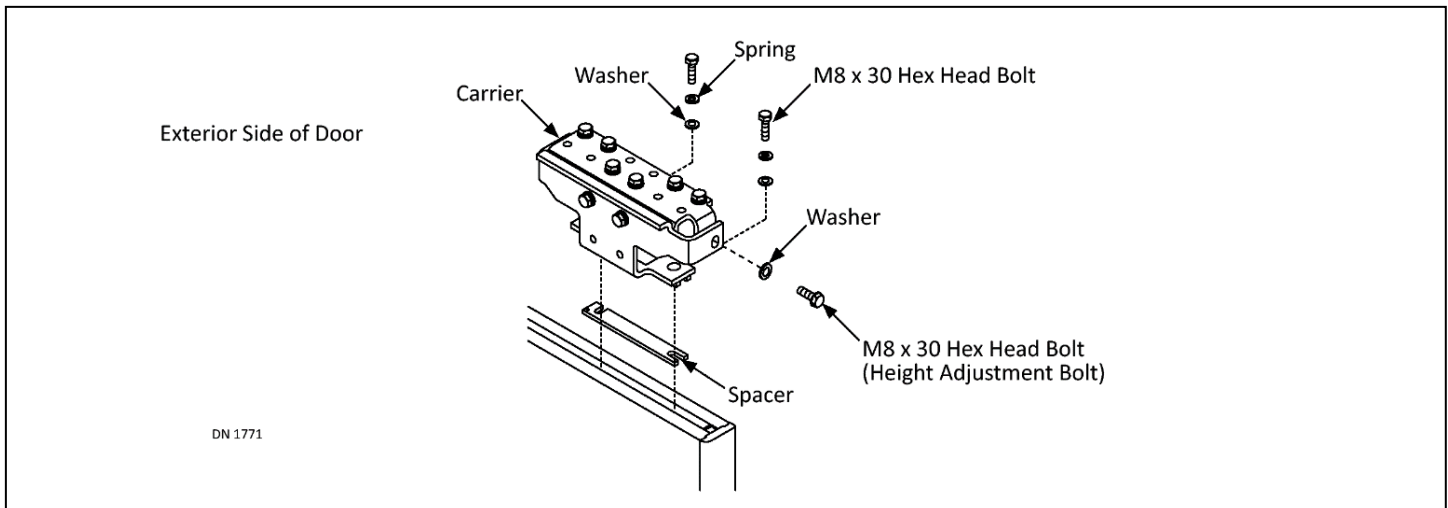
SECTION 22.3: Adjust Small Gap between Door and the Floor

Note: Adjustment is required only if the bottom of the door is not parallel to the floor.

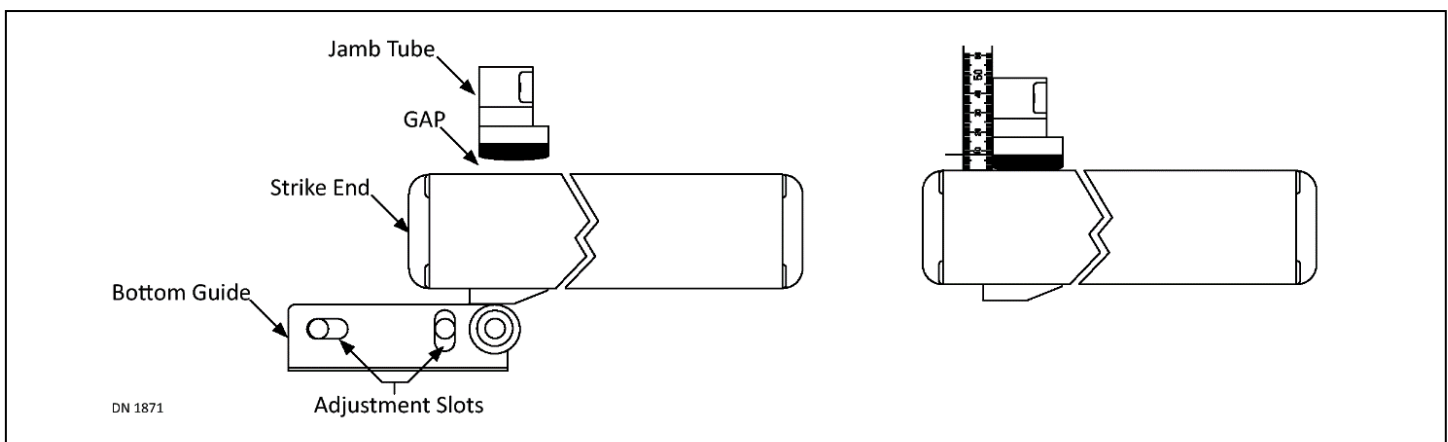
1. Go to the side of Carrier. Insert (1) M8 x30mm Hex Head Bolt with Washer.
 - a. This is commonly referred to as the Height Adjustment Bolt.
2. Go to the front plate of Carrier. Locate and then slightly loosen (2) M8 x16mm Hex Head Bolts.
 - a. Do Not excessively loosen. The Slide Door may fall down and cause injury.
 - b. The weight of the Slide Door will automatically lower the (2) M8 x16mm Hex Head, Bolts.
 - c. Ensure each Carrier is square and level.
3. Tighten or Loosen the Height Adjustment Bolt to adjust the gap from the ground.
4. Tighten (2) M8x16mm Hex Head Bolts.
5. Remove the Height Adjustment Bolt.

SECTION 22.4: Adjust Large Gap between Door and the Floor

1. Manually open the Slide door until it is almost in the fully open position.
2. Loosen (2) M8 x 30 Hex Head Bolts, (2) Springs, and (2) Washers used to remove each Carrier.
3. Add Spacers as deemed necessary to lower the Slide Door.
 - a. (5) Spacers per Carrier has been provided by NABCO.
4. Secure the Carrier with (2) M8 x 30 Hex Head Bolts, (2) Springs, and (2) Washers.
5. Ensure the Slide door is square and level.



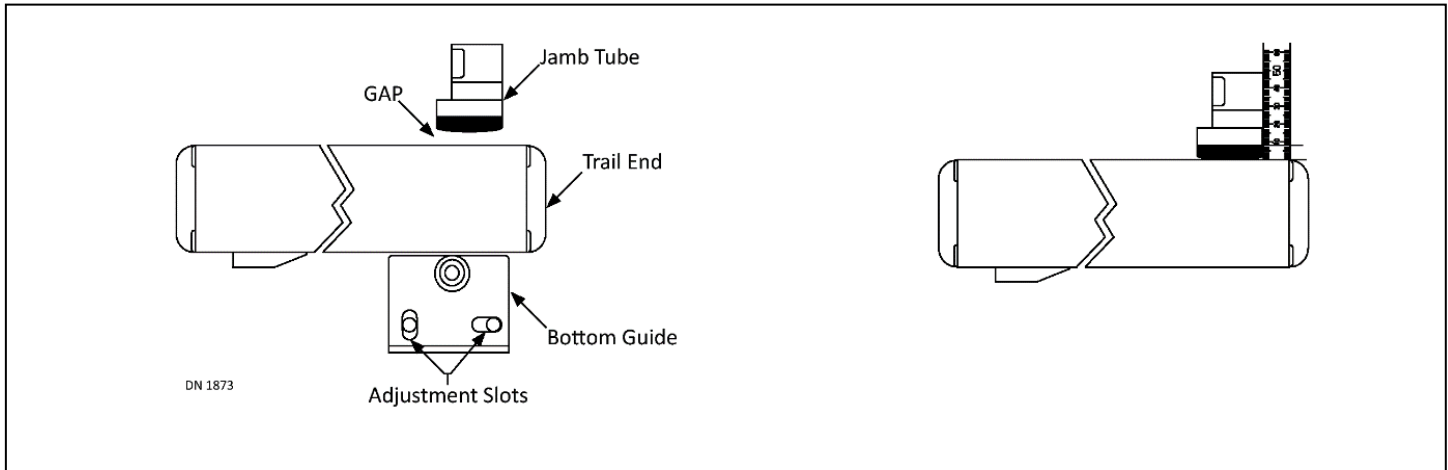
SECTION 22.5: Adjust Gap between the Strike End of Door and the Jamb Tube



1. Remove the Bottom Guide Cover. Loosen (2) M5x20 Cross Head Screws.
2. Move the door to the Fully Closed position.

3. Slide the Bottom Guide (up/down, to right or to the left) within the slots until the excess gap no longer exists.
4. Measurement between where the Vinyl Seal starts to protrude from the Jamb Tube to the surface of Slide Door.
 - ▶ Does not exceed 5/16" [+1/16, -1/32"] (7mm-10mm)
5. Tighten (2) M5x20 Cross Head Screws and replace the Cover.

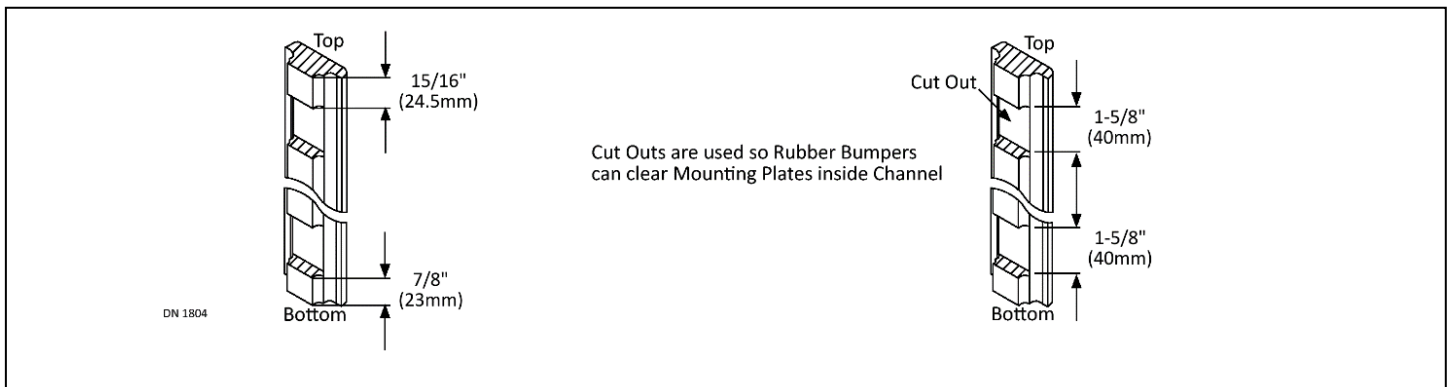
SECTION 22.6: Adjust Gap between the Trail End of Door and the Jamb Tube



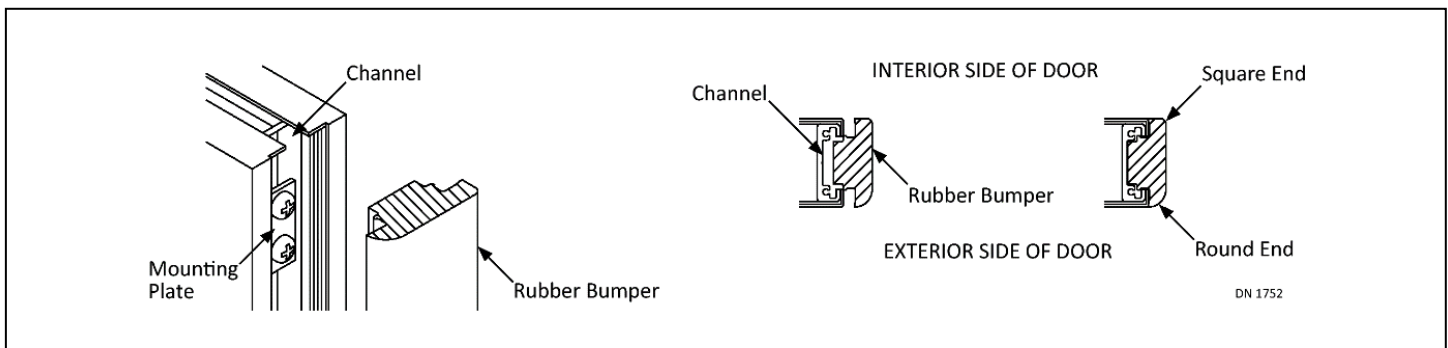
1. Loosen (2) M5x20 Cross Head Screws.
2. Move the door to the Fully Closed Position.
3. Slide the Bottom Guide (up/down, to right or to the left) within the slots until the excess gap no longer exists.
4. Measurement between where the Vinyl Seal starts to protrude from the Jamb Tube to the surface of Slide Door.
 - a. Does not exceed 5/16" [+1/16, -1/32"] (7mm-10mm)
 - b. Insert a credit card. If the credit card drops out between the Vinyl seal and Jamb Tube, adjustments must be made.
 - c. There must not be any GAPS.
5. Tighten (2) M5x20 Cross Head Screws.

CHAPTER 23: REPLACEMENT

SECTION 23.1: Replace Rubber Bumpers



1. Remove the Slide Door, and the Rubber Bumpers.
 - a. The Slide Door can stay hung as long as it is secured with a wedge, etc, so that it will not move.
2. Clean Channels that run up/down the Slide door. Do Not leave any residue.
3. Obtain the Rubber Bumper. The full length of the Back Side has Cut Outs to clear Mounting Plates inside each Channel.
4. Cut each Rubber Bumper so it is the same length as each Channel. In doing so, ensure the:
 - ▶ Top of Channel is 15/16" (24.5mm) solid.
 - ▶ Bottom of Channel is 7/8" (23mm) solid.

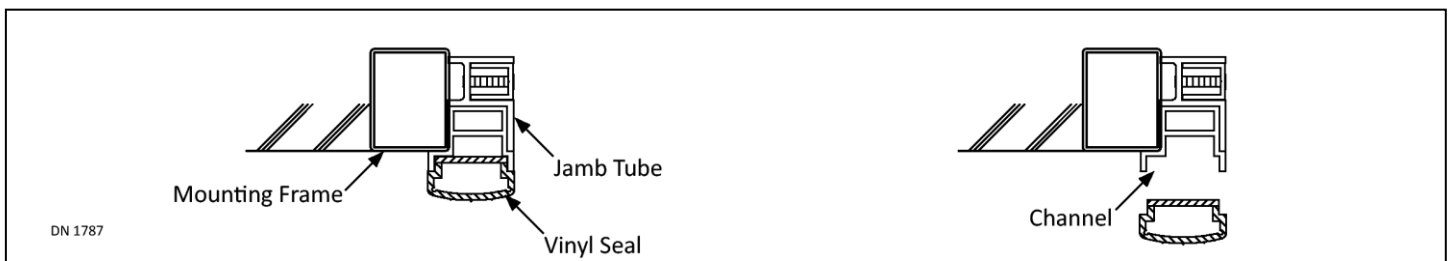


Attention: Insert each Rubber Bumper so the rounded end is on the Exterior side of door. The squared end must always be on the Interior side of door.

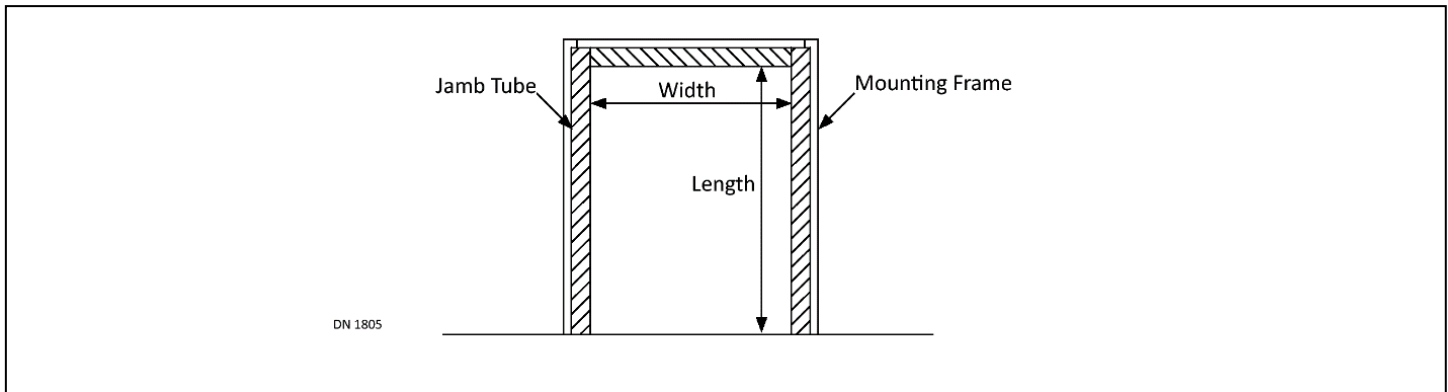
5. Peel off the paper strip to expose the adhesive portion of tape. With the Rounded End on the Exterior side of door, push each Rubber Bumper into each Channel. A flat head screwdriver may help the insertion process.
 - a. Ensure the Rubber Bumper is completely installed with no air pockets, or crimps, etc.
6. Install the Slide Door (if removed).

SECTION 23.2: Replace Vinyl Seals on Jamb Tubes

1. Remove the Slide Door.



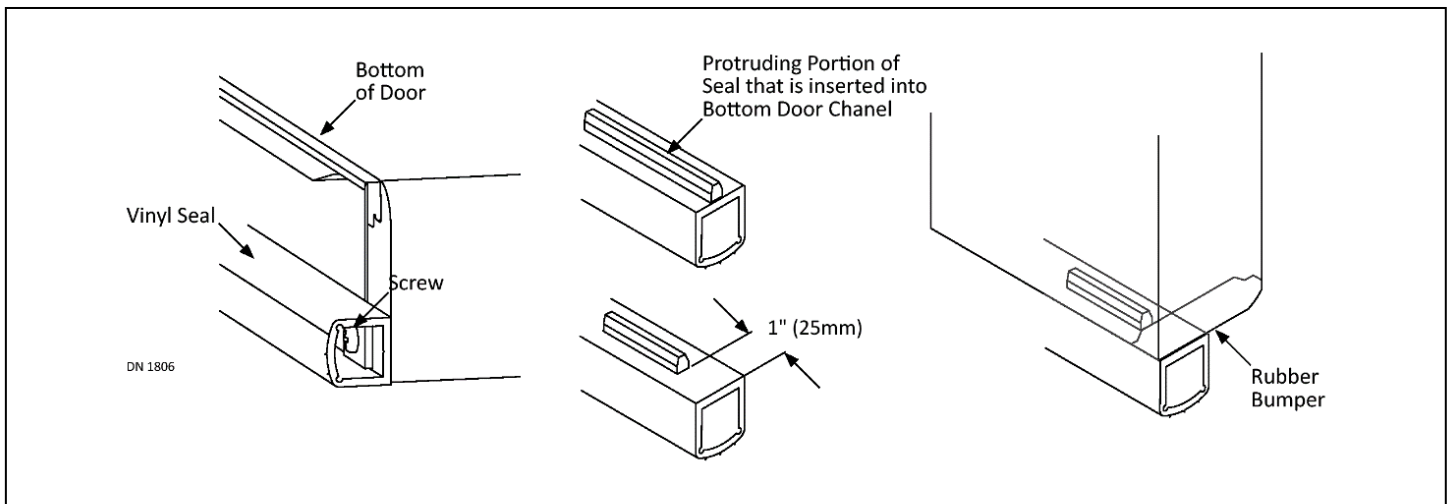
2. Remove the Vinyl Seal from each Jamb Tube.
3. Clean the Channels. Do Not leave any residue.



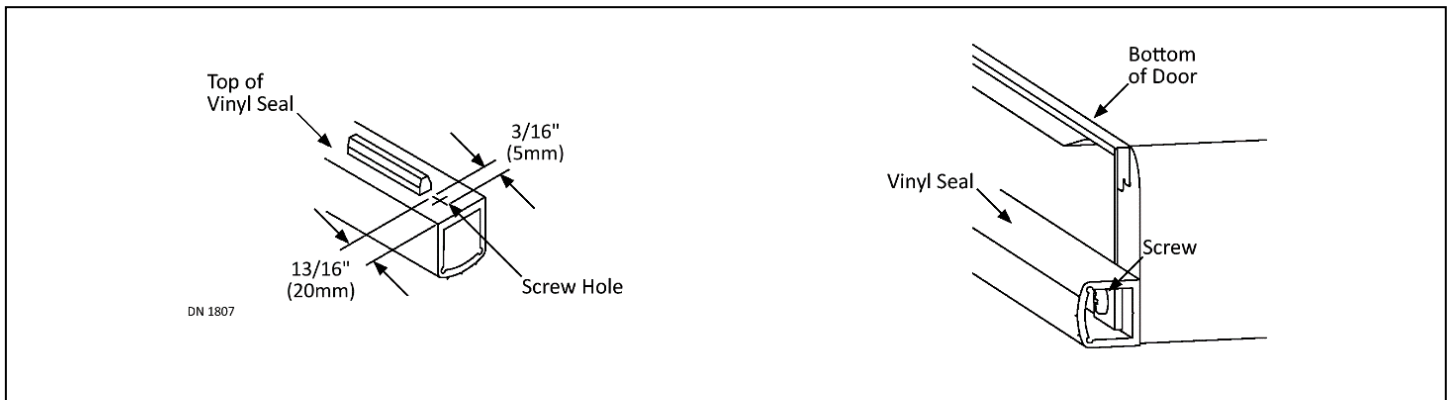
4. Measure to cut the Vinyl Seal to appropriate length.
5. Peel off the paper strip to expose the adhesive portion of tape. Push (1) Vinyl Seal into Channel.
 - a. Use a Flat Head screwdriver, etc.
 - b. Ensure the Vinyl Seal is completely installed with no air pockets, or crimps, etc.
6. Install the Slide Door.

SECTION 23.3: Replace Vinyl Seals on Bottom of Door

1. Remove the Slide Door.
2. Place the Slide Door on a flat surface. Protect Door from scratches.
3. Remove (1) Screw from the Mounting Bracket located inside each end of the Vinyl Seal.
4. Remove the Vinyl Seal from the Channel.



5. Measure the width of Slide Door, at the bottom. Add $13/16"$ (20mm): $\text{Width} + 13/16" = \text{Vinyl Length}$
6. Go to each edge of the Vinyl Seal. Measure 1" (25mm) towards the center. Cut off the protruding, top portion of the Vinyl Seal.
 - a. This is done so the top face of the Vinyl Seal can be flush against the bottom of each Rubber Bumper.



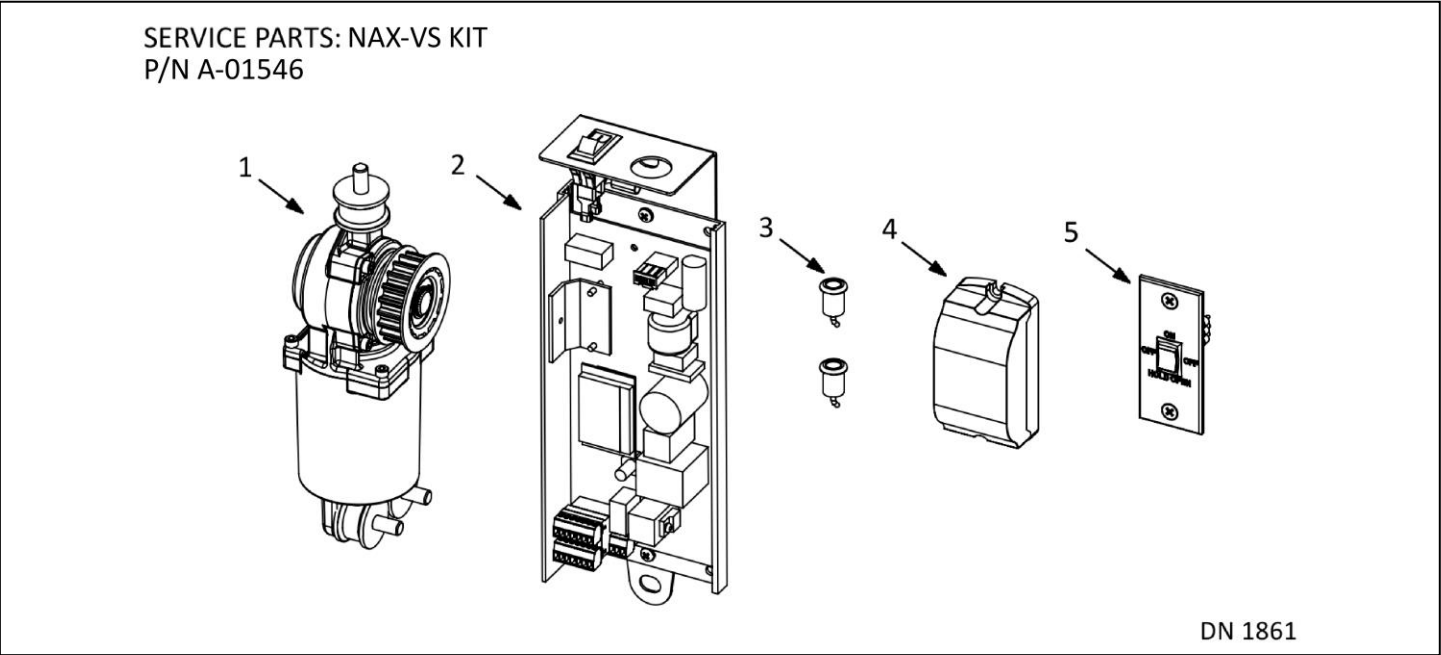
7. Go to each edge of the Vinyl Seal. Measure 13/16" (20mm) towards the center. Mark that spot.
8. Cut a cross-shaped slit no bigger than 3/16" (5mm).
 - a. The slit is created for (1) Screw Hole.
9. Push the protruding portion of the Vinyl Seal into the Channel.
 - b. Use a Flat Head screwdriver, etc.
 - c. Ensure the Vinyl Seal is completely installed with no air pockets, or crimps, etc.
10. Secure the Vinyl Seal to each Mounting Bracket with (1) screw.

CHAPTER 24: TROUBLESHOOTING

Problem	Possible Cause	Action
Door does not open.	Sensor not functioning properly.	▶ Check wire connections on Sensor. ▶ Short-circuit the Sensor and confirm that the Door closes.
The door does not close.	Sensor not functioning properly.	▶ Check wire connections on Sensor. ▶ Remove the sensor. Confirm that the door closes.
Door movement not smooth	Rated power is not supplied. Horizontal resistance is large.	Supply the Rated power.
The door does not Fully close (Leaves a gap).	Spring force is too strong. Contact between packings too tight.	▶ Adjust the inclination of the door. ▶ Check the specifications (mass) of the door system.
When Door is in Fully Closed position, power is turned OFF, and the Door opens.	Spring Force is too strong.	Loosen the spring force on the Spring Mechanism.
It is too hard to manually open the Door.	Spring Force is not strong enough.	▶ Tighten the spring force on Spring Mechanism. ▶ Reposition the Spring Mechanism.
The Close-Safety (reverse opening movement) occurs when the Spring Mechanism comes into contact with the Spring Mechanism Receiver.	Spring Force is too strong. Receiver is in the wrong position.	If Close-Safety occurs immediately after the Spring Mechanism butts against the Receiver, slide the Receiver towards the Strike End Cap.
The Close-Safety (reverse opening movement) occurs when the door is running on the slope of Track.	Spring Force is too strong. Receiver is in the wrong position.	Loosen the spring force on the Spring Mechanism.

CHAPTER 25: Service Parts

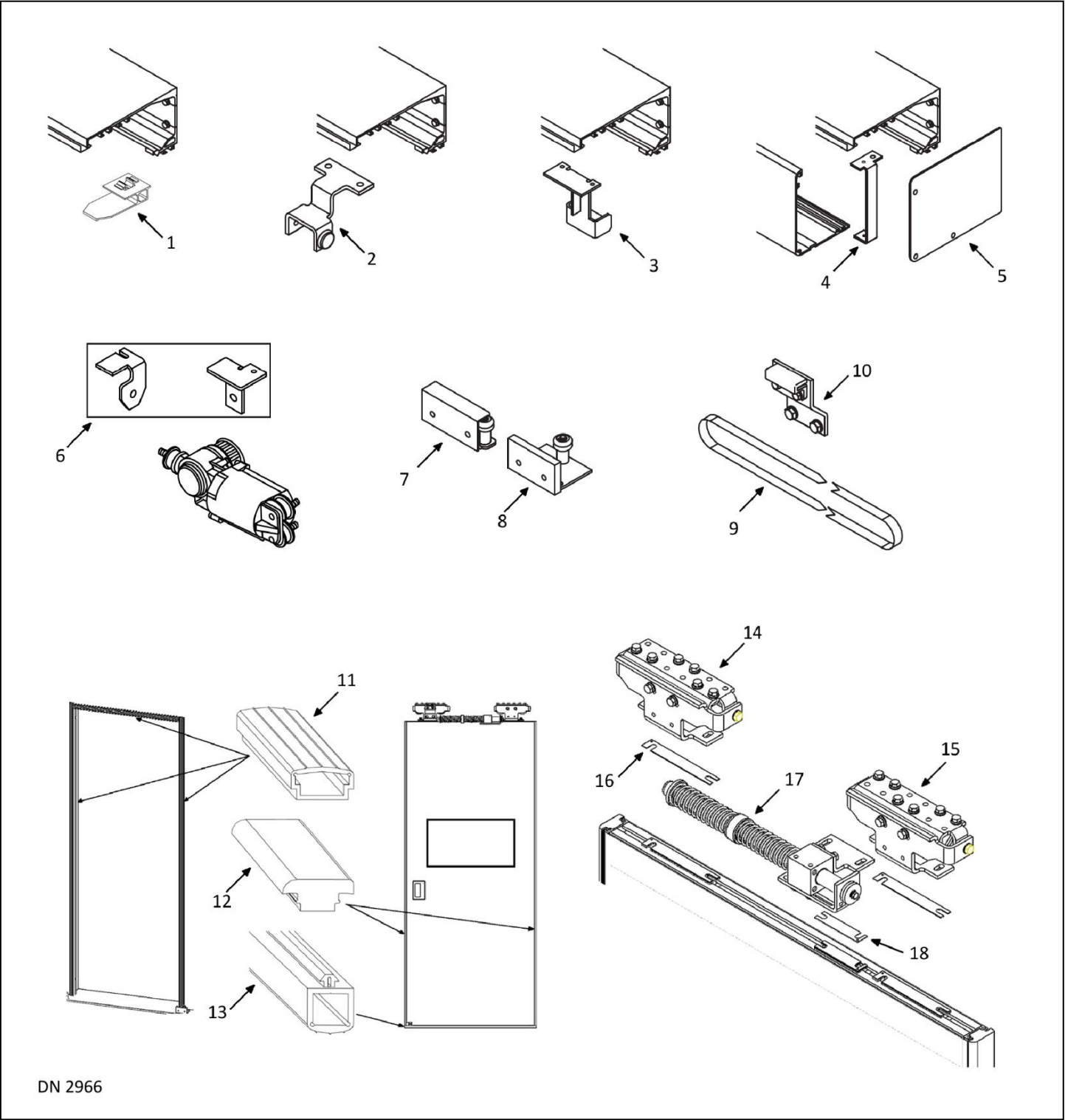
SECTION 25.1: NAX KIT with Opus



NABCO Service Parts			
Item	Part	Used to	Description
1	V-00914	Motor/Operator.	OPERATOR, VS-150
2	A-01418	Program Function of Door.	ASM, OPUS CONTROLLER
3	V-00073	Sense/Activate the Photo eye Amplifier when a pedestrian crosses or stands within the threshold.	HOLDING BEAM, PHOTO ELECTRIC, W/ EXT CABLE
4	A-00129	Hold Door Open. Activated by Holding Beams	ASM, AMPLIFIER, PHOTOEYE
5	A-00805	Turn Power On or Off	SWITCH, ROCKER, SWINGER, ON-OFF-HOLD OPEN
6*	M-02168	Wiring between Opus and Sensor, Holding beam, Switch.	HARNESS, MAIN, 2400A, OPUS

* Not shown in drawing.

SECTION 25.2: SERVICE PARTS

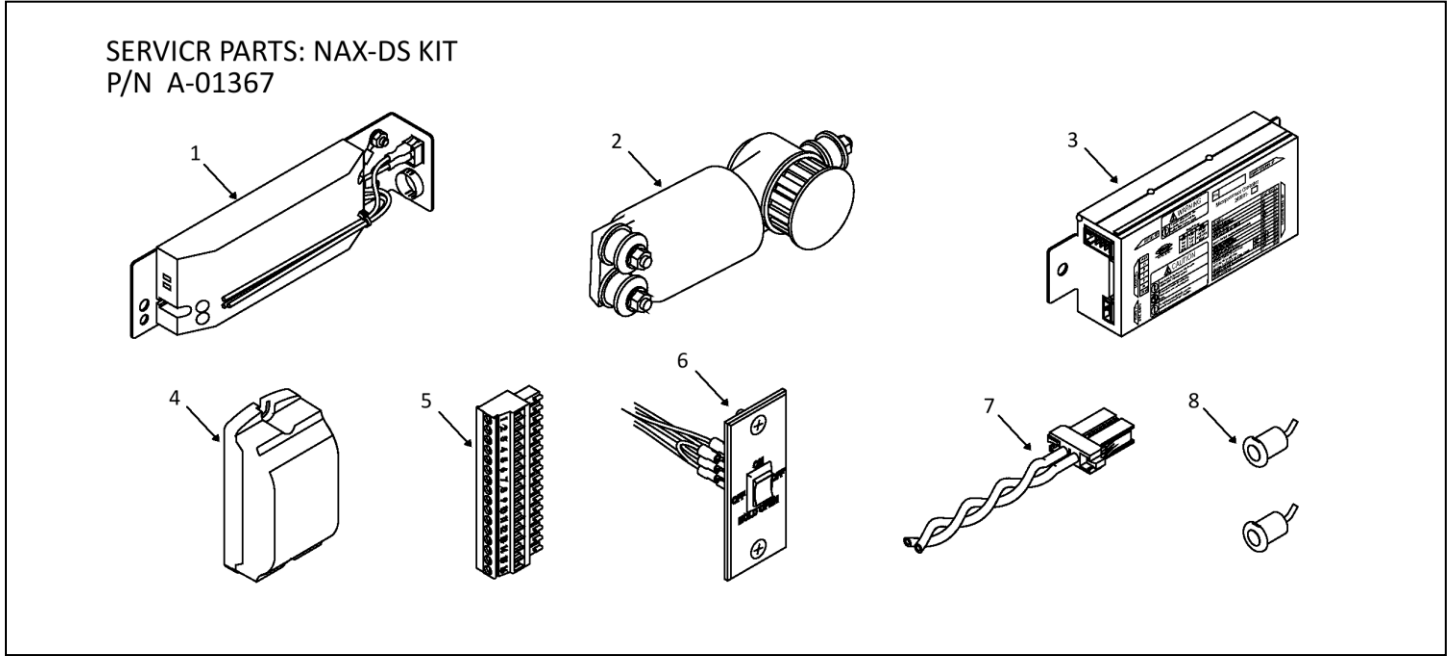


NABCO Service Parts For NAX with Opus

Item	Part	Used to	Description
1	V-01010		CLIP, WIRE SUPPORT, NAX, OPUS/VS-150
2	V-01011-10	Door Stop for Left side as viewed from the Exterior	DOOR STOP, NAX, OPUS/VS-150, LEFT SIDE
	V-01011-20	Door Stop for Right side as viewed from the Exterior	DOOR STOP, NAX, OPUS/VS-150, RIGHT SIDE
3	V-01012-10	RH	RECEIVER, SPRING MECH., NAX, OPUS/VS-150, RH
	V-01012-20	LH	RECEIVER, SPRING MECH., NAX, OPUS/VS-150, LH
4	V-01013		BRKT, COVER, SET, NAX, OPUS/VS-150
5*	V-60990		END CAP, HEADER, SET, NAX, 204
6	V-01015		BRKT SET, GEAR MOTOR, NAX, OPUS/VS-150
7*	V-00996-10	RH	ROLLER, GUIDE, FLOOR, LEAD, NAX, RH
	V-00996-20	LH	ROLLER, GUIDE, FLOOR, LEAD, NAX, LH
8*	V-00997-10	RH	ROLLER, GUIDE, FLOOR, TRAIL, NAX, RH
	V-00997-20	LH	ROLLER, GUIDE, FLOOR, TRAIL, NAX, LH
9	V-00917		BELT, TIMING, S8M X 12mm WIDE
10	V-01014		BELT CLIP, SINGLE, NAX, OPUS/VS-150
11*	V-00979		PACKING, THREE-SIDED JAMB, NAX
12*	V-00980		PACKING, VERTICAL, NAX
13*	V-00978		PACKING, BOTTOM, NAX
14*	V-00988-10	Roller Carrier (1)	HANGER, DOOR, NAX, LEAD
15*	V-00988-20	Roller Carrier (2)	HANGER, DOOR, NAX, TRAIL
16*	V-00989	Use with Roller Carrier	SPACERHANGER, DOOR, NAX
17*	V-00985-10	RH	SPRING MECHANISM, LIGHT DUTY, NAX, RH
	V-00985-20	LH	SPRING MECHANISM, LIGHT DUTY, NAX, LH
18*	V-00987	Use with Spring Mechanism	SPACER, SPRING MECHANISM, NAX

* Same as NAX with U30

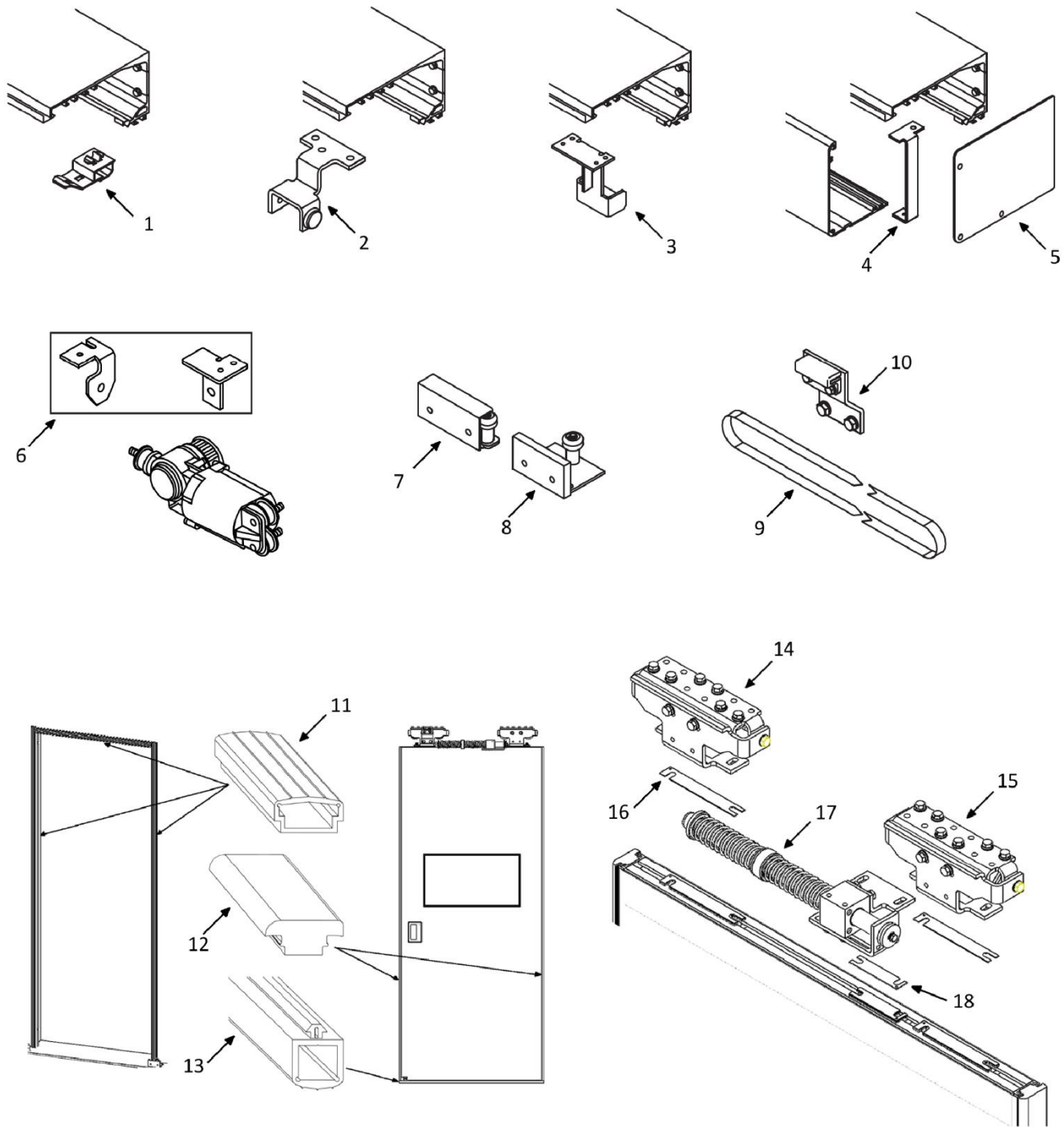
SECTION 25.3: NAX KIT with U30



NABCO Service Parts			
Item	Part	Used to	Description
1	A-00717	Supply Power to Control and Motor/Operator	POWER SUPPLY,27 VDC,100 WATT
2	M-00395	Control Operation of Door	OPERATOR, DS150
3	V-00020	Program Function of Door	CONTROLLER, U30
4	A-00129	Hold Door Open. Activated by Holding Beams	AMPLIFIER, PHOTOEYE, OPTEX ASSY
5	V-00410	Hardwire Components within Header to Control	TERMINAL BLOCKU30 WIRE CONNECTOR
6	A-00805	Turn Power On or Off	SWITCH, ROCKER, SWINGER, ON/OFF/HOLD OPEN
7	M-00412	Connect Operator to the Motor Operator	HARNESS, U30, POWER
8	V-00073	Sense/Activate the Photoeye Amplifier when a pedestrian crosses or stands within the threshold.	HOLDING BEAM, PHOTO ELECTRIC, W/ EXT CABLE

SECTION 25.4: SERVICE PARTS FOR NAX with U30 VERSION

NAX with U30 (NAX-DS) and NAX with Opus (NAX-VS) are slightly different products. The following parts are for NAX with U30.



DN 2965

NABCO Service Parts For NAX with U30

Item	Part	Used to	Description
1	V-00982		CLIP, WIRE SUPPORT, NAX
2	V-00983-10	Door Stop for Left side as viewed from the Exterior	DOOR STOP, NAX, LEFT SIDE
	V-00983-20	Door Stop for Right side as viewed from the Exterior	DOOR STOP, NAX, RIGHT SIDE
3	V-00984-10	RH	RECEIVER, SPRING MECHANISM, NAX, RH
	V-00984-20	LH	RECEIVER, SPRING MECHANISM, NAX, LH
4	V-00991		BRKT SET, COVER, NAX
5*	V-60990		END CAP, HEADER, SET, NAX, 204
6	V-00995		BRKT SET, GEAR MOTOR, NAX
7*	V-00996-10	RH	ROLLER, GUIDE, FLOOR, LEAD, NAX, RH
	V-00996-20	LH	ROLLER, GUIDE, FLOOR, LEAD, NAX, LH
8*	V-00997-10	RH	ROLLER, GUIDE, FLOOR, TRAIL, NAX, RH
	V-00997-20	LH	ROLLER, GUIDE, FLOOR, TRAIL, NAX, LH
9	V-00994-120		BELT, TIMING, S8M X 15mm WIDE,3056mm
	V-00994-239		BELT, TIMING, S8M X 15mm WIDE,6072mm
10	V-00992		BELT CLIP, SINGLE, NAX
11*	V-00979		PACKING, THREE-SIDED JAMB, NAX
12*	V-00980		PACKING, VERTICAL, NAX
13*	V-00978		PACKING, BOTTOM, NAX
14*	V-00988-10	Roller Carrier (1)	HANGER, DOOR, NAX, LEAD
15*	V-00988-20	Roller Carrier (2)	HANGER, DOOR, NAX, TRAIL
16*	V-00989	Use with Roller Carrier	SPACERHANGER, DOOR, NAX
17*	V-00985-10	RH	SPRING MECHANISM, LIGHT DUTY, NAX, RH
	V-00985-20	LH	SPRING MECHANISM, LIGHT DUTY, NAX, LH
18*	V-00987	Use with Spring Mechanism	SPACER, SPRING MECHANISM, NAX

* Same as NAX with Opus