GT1400 Standard Single/Hurricane Single Folding Door Installation Manual

P/N C-00177 Rev 9-10-26

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Associated Manuals Part Numbers:

Opus Control Wiring and Programming Manual; P/N C-00139
(Power input: 100-130VAC, AC 50-60 Hz, minimum 5A service, see OPUS manual for more information)
GT Folding Door Owner's Manual; P/N C-00111

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.**

Manual & Tech Call Disclaimer

The information and material contained in the program manuals, guides, and instructions (the "**Manuals**") are being provided for informational purposes and as a general guide only; some applications and installations vary, however, and may require additional steps. The Manuals are intended to be used by skilled American Association of Automatic Door Manufacturers ("**AAADM**") certified technicians qualified to perform authorized installation, maintenance, and other work on NABCO Entrances, Inc.'s ("**NABCO**") products. The information contained in the Manuals does not purport to cover all details or variations in NABCO products and does not claim to provide for every possible contingency met in connection with installation, operation, or maintenance. The Manuals are not intended to be a substitute for advice from a skilled, qualified, and AAADM certified technician. The information provided in the Manuals or by NABCO's tech service department, while attempting to troubleshoot, is being provided for general informational purposes only and is not intended to substitute for advice from a skilled, qualified, and AAADM certified technician. For any assistance outside of general assistance based on the Manuals, a skilled, qualified, and certified AAADM technician should be consulted.

NABCO hereby disclaims any and all liability to any party for any direct, indirect, implied, punitive, special, incidental, or other damages, including consequential damages, arising directly or indirectly from any use of, or reliance on, the Manuals, which are provided as is, and without warranties. NABCO does not warrant or guarantee the performance or effectiveness of the Manuals, including but not limited to the installation of NABCO products, referenced or described in any part of the Manuals.

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CHAPTER 1: SAFETY FLAGS

SECTION 1.1: Warning Labels

Warning labels are universal and used to alert an individual of a potential hazard to oneself or to others. The following warning labels are listed in a hierarchical order that defines the most hazardous: **DANGER** to the least hazardous: **SAFETY**. Please refer to this page if a warning label is displayed within this manual and requires further definition.



Indicates an immediate hazard; a hazard capable of producing irreversible damage, injury or death. It should not be considered for property damage unless personal injury risk is present.



Indicates a hazardous situation which, if not avoided, could result in death or serious injury. It should not be considered for property damage unless personal injury risk is present.



Indicates a potentially hazardous situation, a hazard capable of resulting in severe but not irreversible injury or damage. The CAUTION label should not be used when there is a possibility of death or serious irreversible injury.



Indicates a situation where general information is provided to prevent material from damage or prevent the function of the equipment from being impaired. The NOTICE label should not be used when there is a hazardous situation or personal risk.



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

NOTE: *Indicates important information that provides further instruction.*

SECTION 1.2: General Safety Recommendations



Always disconnect all power to the junction box and use proper Lockout / Tagout procedures prior to making any electrical connections. Failure to do so may result in irreversible damage, injury, or death. Ensure the equipment is disconnected from the energy source by using the operating controls and by using a voltmeter to check voltage.



Do not place any extremity or uninsulated tool inside the *Header*. Touching wires or other parts inside the enclosure may cause electrical shock, serious injury, or death.



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



It is imperative to read, study and understand the installation and operating instructions contained in, or referenced in this manual before performing any service or maintenance. If you do not understand the instructions, please ask a qualified technician. Failure to do so may result in death, serious injury, or property damage and will nullify all warranties.



This product is for Indoor use only.



Use this operator only with Nabco doors.



The ground wire from the OPUS Control 120 VAC harness and the incoming 120 VAC ground wire must be connected to each other secured with a UL-listed electrical connector within the door header.



If any equipment appears damaged or is not working correctly, it should be immediately removed from service until repairs can be carried out or a qualified service technician is contacted for corrective action.

SAFETY **This manual, the owner's manual and all other associated manuals must be given to and retained by the purchasing facility or end user. The Owner's Manual is intended to be used by the Building Owner or Manager. ONLY a qualified service technician can use any of the manuals to make changes to the product.**

SAFETY **It is the responsibility of the purchasing facility or end user to keep warning instructional labels in accordance with ANSI A156.10.**

SAFETY **All electrical wiring work performed must meet all local, state, federal and/or other governing agency codes. All electrical troubleshooting or service must be performed by qualified electrical technicians and must comply with all applicable governing agency codes.**

CHAPTER 2: SCOPE

SECTION 2.1: 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. All automatic equipment complies with UL325. The GT-1400 is listed with the Underwriters Laboratory and is identified as such on the label. In the United States ANSI Standard A156.10 covers the GT-1400 Fold Door System. Use this Standard in addition to ANSI Standard Z97.1 which covers all glass installation. Other local standards or codes may apply. Use them in addition to the ANSI Standards.

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

NOTE: *As an Option, the GT-1400 Fold door can be certified to have a "Hurricane High Impact Compliant Version" manufactured to meet the High Velocity Hurricane Zone (HVHZ) requirements of the Florida building codes.*

SECTION 2.2: Objective

The GT-1400 Fold Door is designed to be installed within a Rough Opening of a Building. The door function is controlled by the Opus Control that offers many features to accommodate most installation options. This manual offers step-by-step 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 1ft^2 (0.9 m^2) and having no dimension greater than 18 in (457 mm)".**

SECTION 2.3: Limited Warranty

NABCO ENTRANCES, INC., for its product line, provides its customers the following limited warranty:

- NABCO ENTRANCES, INC. will exchange or repair, F.O.B. the plant, any component found defective in workmanship and/or material, subject to NABCO's inspection, for a period of 12 months after the date of shipment from NABCO.
- Warranty does not include field service labor. The installation contractor/customer will be responsible for installation and field service. This is NABCO ENTRANCES, INC.'s sole warranty.
- The warranty does not cover loss or damages resulting from causes beyond the manufacturer's control, misuse, neglect, accidents, windstorms, or other acts of God, or acts of terrorism.
- The warranty is for normal use and service. This warranty does not apply to equipment that has been tampered with, repaired, or altered so as to adversely affect conditions of operation.
- Warranty will not obligate NABCO for damages resulting from such alterations, misuse, or acts of God, or acts of terrorism.

If you require additional information, please contact:

Nabco Entrances, Inc.
Technical Services Team
Phone Number: 877-622-2694 Option #3
E-Mail Address: techsupport@nabcoentrances.com

SECTION 2.4: Gaining access into the "myNABCO" Portal

2.4.1 Email and Password

This is for **DISTRIBUTOR ACCESS ONLY**

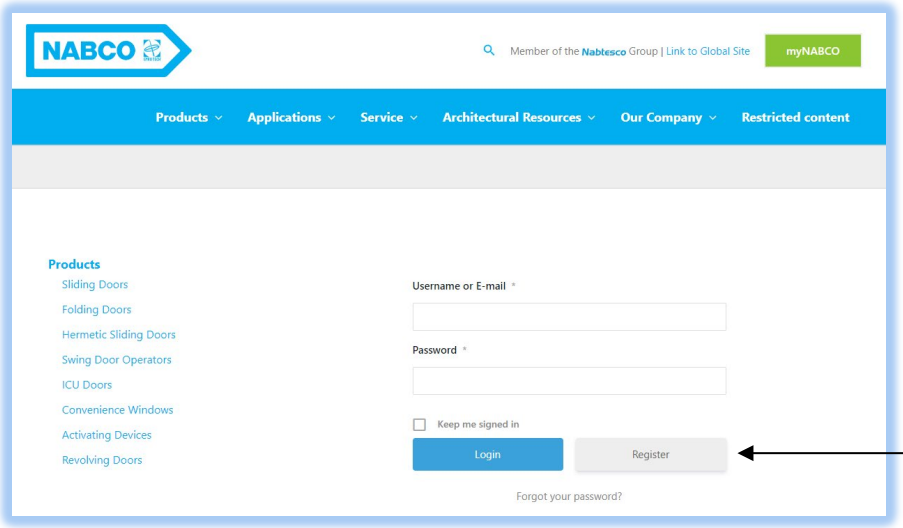
To gain access into the "myNABCO" portal, the **Distributor** must first have an assigned Email and Password.

To request an Email and Password, the following must be done:

1. Open the NABCO Website: www.nabcoentrances.com
2. Click on the "myNABCO" button (Green Button)



3. Click on the "Register" button (see below)
4. A form appears.

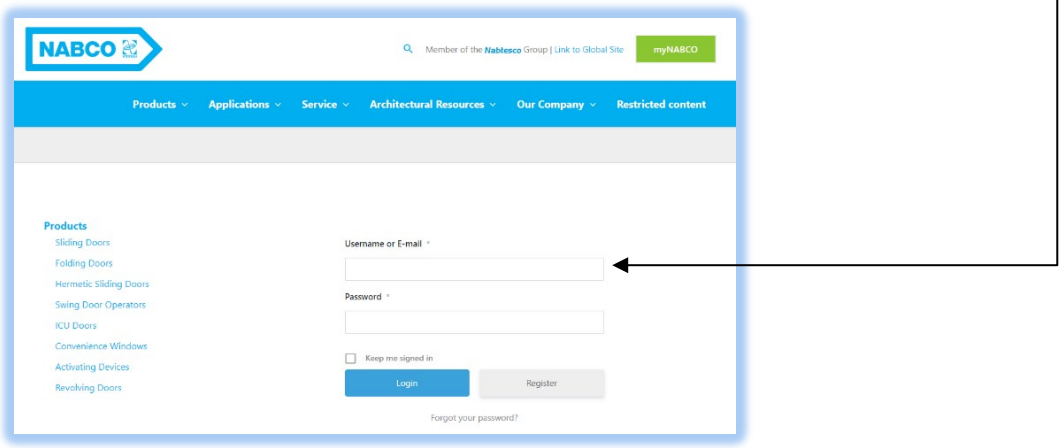


5. Complete the form.
    a. Enter a username, first name, last name, email address and chosen password/verify it, AND then click on the blue **Register** button.
6. A confirmation will be sent back to the **Distributor** verifying the registration.
7. Use the confirmed username and password to Login.

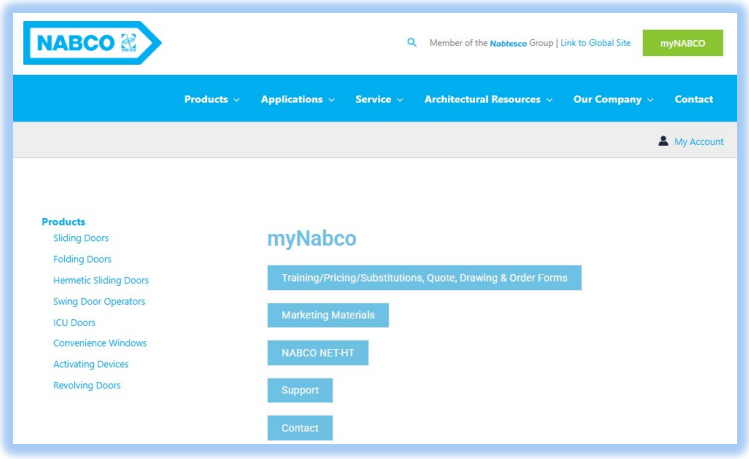
2.4.2 Accessing Installation, Wiring and Programming Manuals

For User convenience there are now (2) ways to obtain associated Installation, Wiring and Programming Manuals:

- All Associated Manuals are packed within Decal Packets that are placed inside the Header.
- For Electronic copies please login at: **www.nabcoentrances.com → myNABCO portal → LOGIN.**



- The screen below appears once you are logged in.
- Navigate to the information needed.



2.4.3 Obtaining Associated Manuals, Cut Sheets and Shop Drawings

- Secure Cut Sheets, Pick Lists and Shop Drawings from your Project Coordinator or General Contractor and review them.

SECTION 2.5: Access to Other Information and Associated Links

2.5.1 Locating Service Part Pages

- Service Parts are located at the end of the manual; this is for your reference ONLY.
- *Service Parts can ONLY be ordered by an **Authorized Distributor** or **Branch**.*
- *If questions,* please call NABCO Entrances Technical Service at 1-877-622-2694, Option 3, between 7am – 5:30 pm Central Time for additional assistance.

2.5.2 Links to Service Parts Pages in this Manual

Service Parts: Bag P/N A-00514
Service Parts: OPUS Control
Service Parts: Header (Top Half)
Service Parts: Header (Bottom Half)
Service Parts: Single Fold Door
Service Parts: Left Hand Single Door
Service Parts: Right Hand Single Door

CHAPTER 3: PREPARE and ORGANIZE

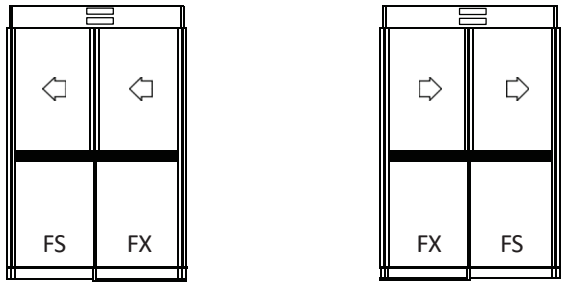
SECTION 3.1: Type of Fold Door

▶ Standard Fold Door ▶ Hurricane Fold Door

SECTION 3.2: Folding Door Configuration

▶ Installed within Rough Opening of Building
▶ Bottom Load Header
▶ Fold Door folds to the right or left
▶ Door Panels always fold toward the direction of breakout.

FX = Slide panel with breakout capabilities.
FS = Swing Panel with breakout capabilities.

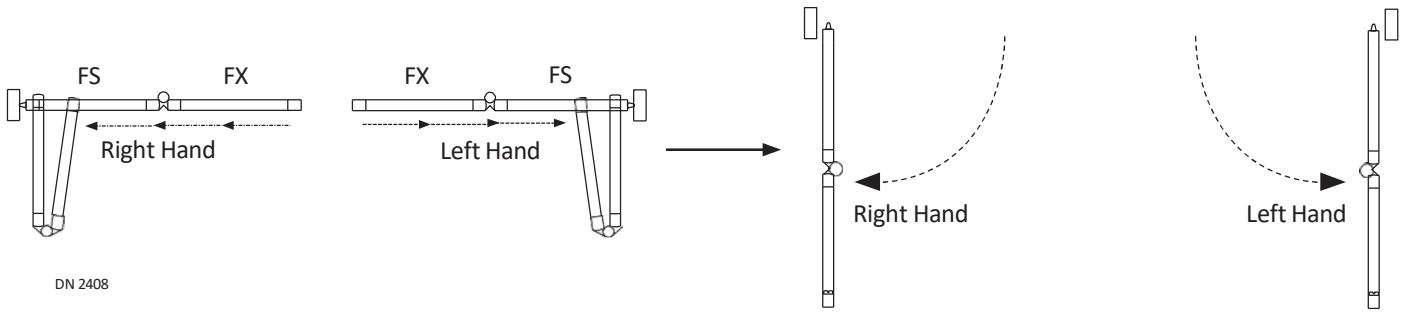


DN 2407

RH Single Fold LH Single Fold

Figure 1 Door Configuration

SECTION 3.3: Emergency Egress



DN 2408

Figure 2 Emergency Egress

SECTION 3.4: Folding Door Standard Components

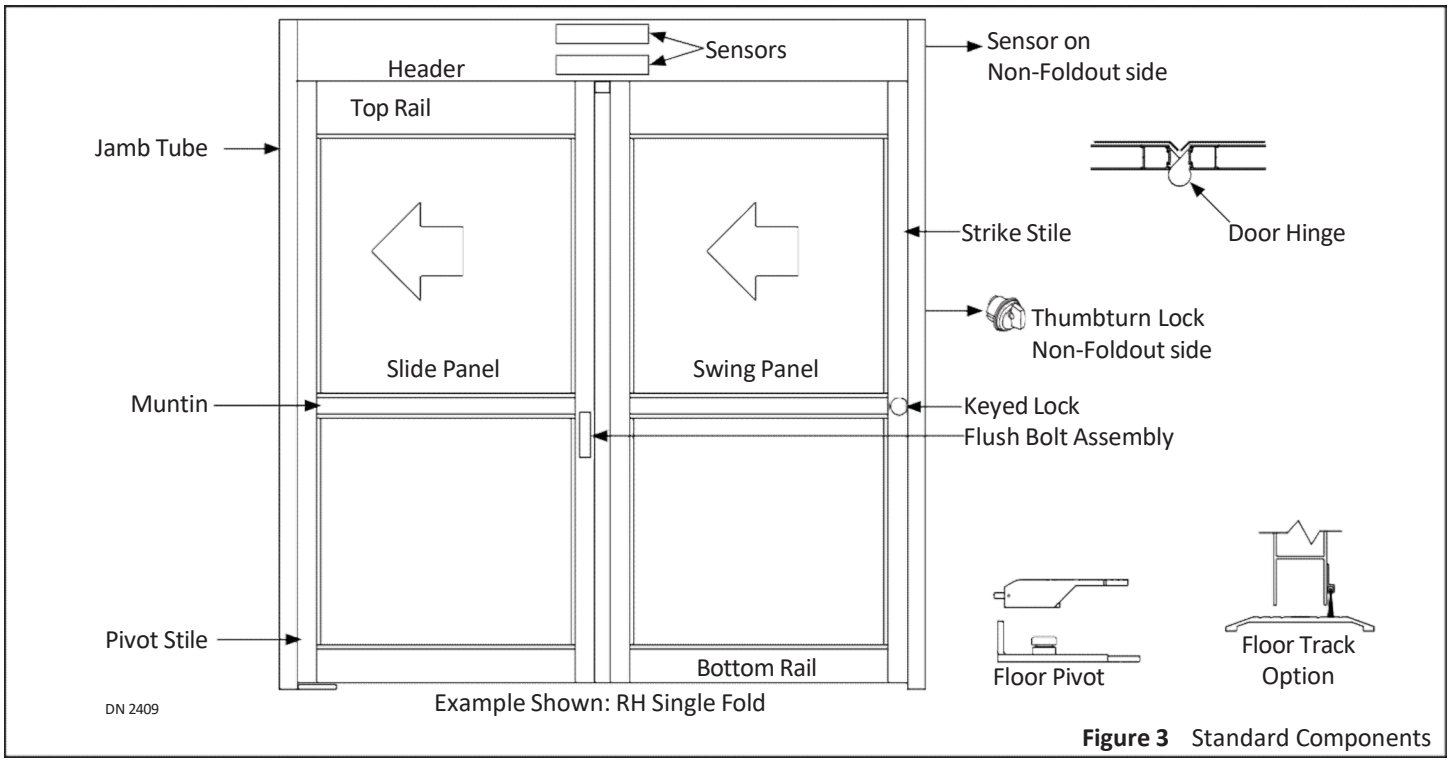


Figure 3 Standard Components

SECTION 3.5: Parts of the Header

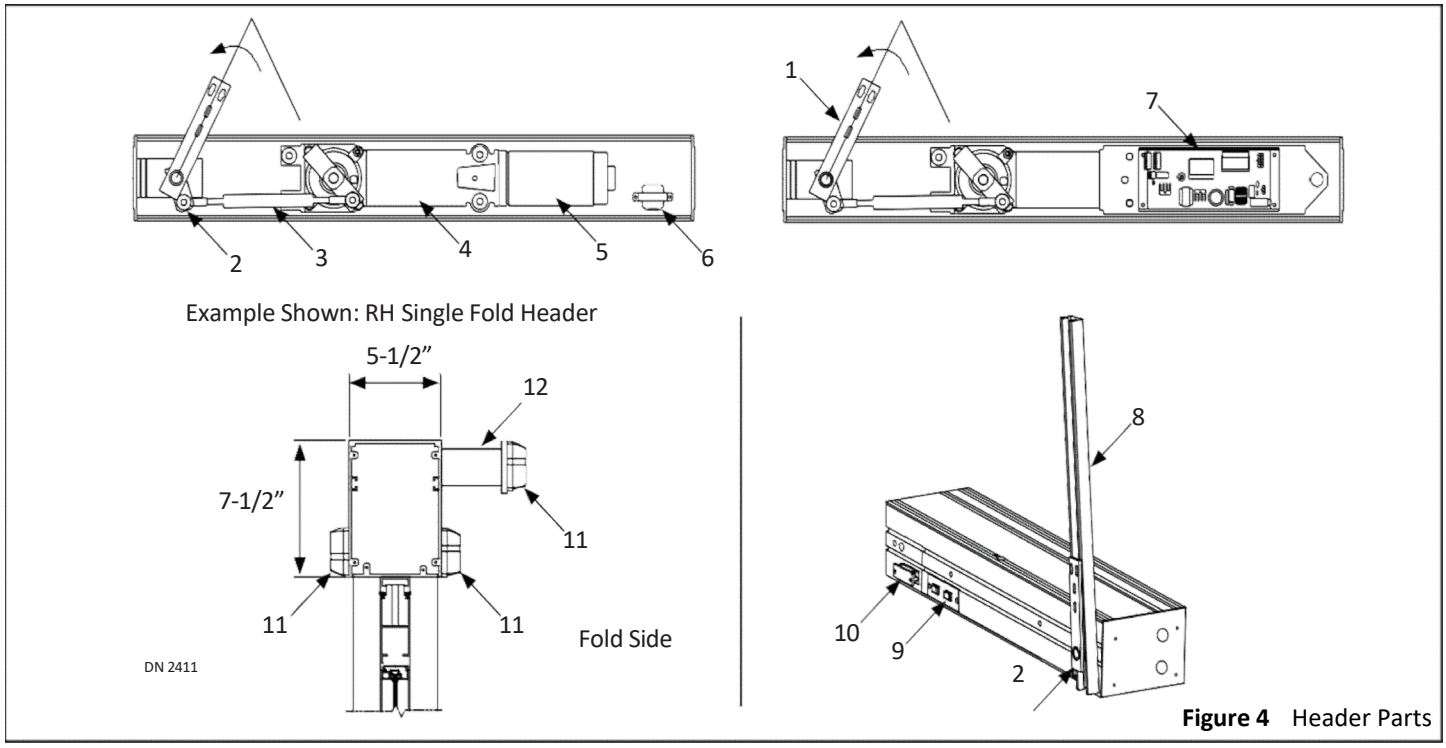


Figure 4 Header Parts

1. Spindle Drive Bar
2. Rod End
3. Push Rod
4. Operator
5. Motor
6. Aux. Transformer
7. Opus Control
8. Guide Channel
9. Rocker Switch
10. Magnetic Latch
11. Acusensor M
12. Extension Bracket

SECTION 3.6: Before Assembling the Door Frame – Electrical

DANGER **Read and understand the "Opus Control Wiring and Programming Manual" P/N C-00139 before attempting to power up the door. Failure to do so may result in damage to the door and/or injury to the installer and will nullify all warranties.**

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. The 120 VAC Power wires must be routed (separate from other wiring) 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.**

NOTICE **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.**

CHAPTER 4: INITIAL ASSEMBLY (Install Door Frame)

SECTION 4.1: Prepare the Header

1. Go to the non-breakout side of the opening. Place Header so the Magnetic Latch is on the floor and the bottom is facing the breakout side of opening.
2. Go to the Guide Channel. Swing out the Guide Channel 90 degrees away from the Magnetic Latch.

   a. Continue to manually hold the Guide Channel when taking off the Dress Plate and Lock Plates.

DANGER **Do not let go of the Guide Channel, it will spring back to its original location and can result in personal injury or damage.**

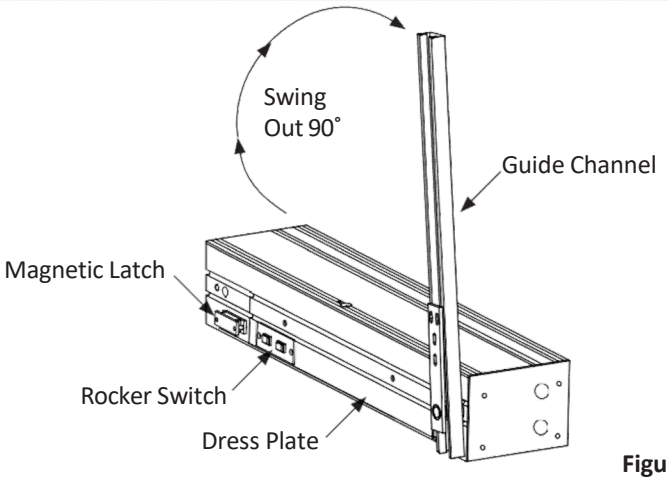


Figure 5 Swing Out Channel Guides 90 Degrees

3. Remove screws used to secure the Dress Plate.

4. Carefully lower the Dress Plate until the Rocker Switch wiring is exposed. Disconnect the Switch from the switch harness. Remove the Dress Plate and Lock Plates.
5. Manually return the Guide Channel to its original position, so that it butts up against the Magnetic Latch.

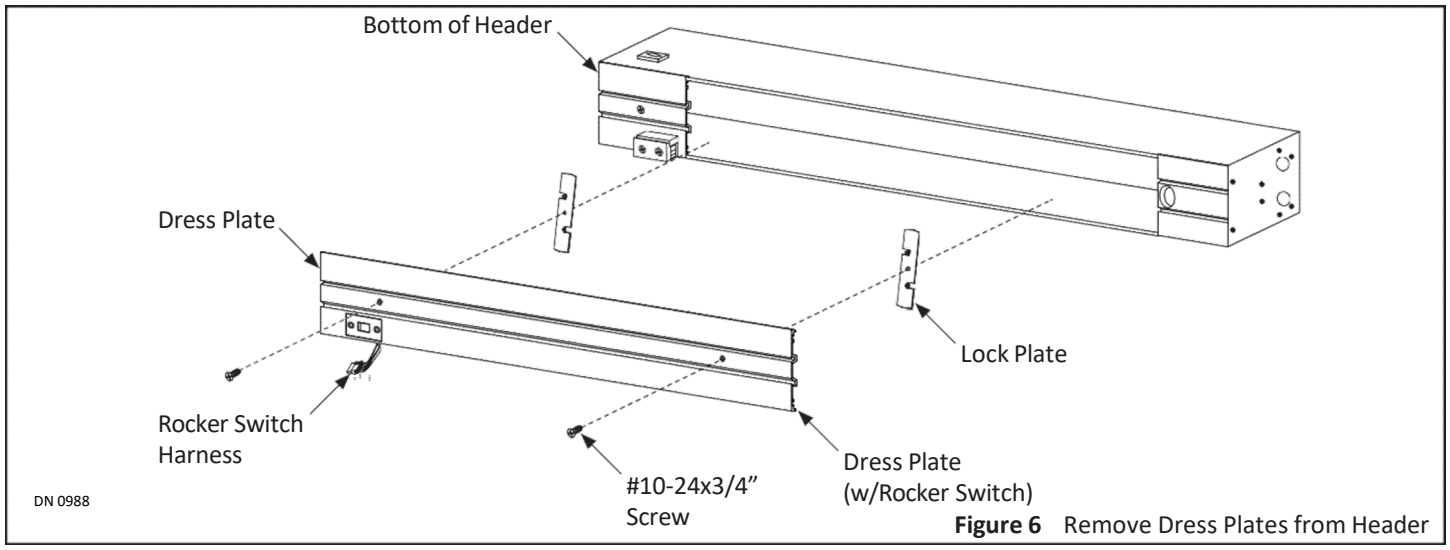


Figure 6 Remove Dress Plates from Header

SECTION 4.2: Secure Jamb Tubes to Rough Opening

1. Position Jamb tubes on either side of Header so the Weathering faces up, and the open end at the bottom of each Jamb Tube is facing the breakout side of opening.
2. Secure Jambs Tubes to Header with 1/4-inch Star Washers and 1/4-20 x 3/4-inch Bolts, provided by NABCO.

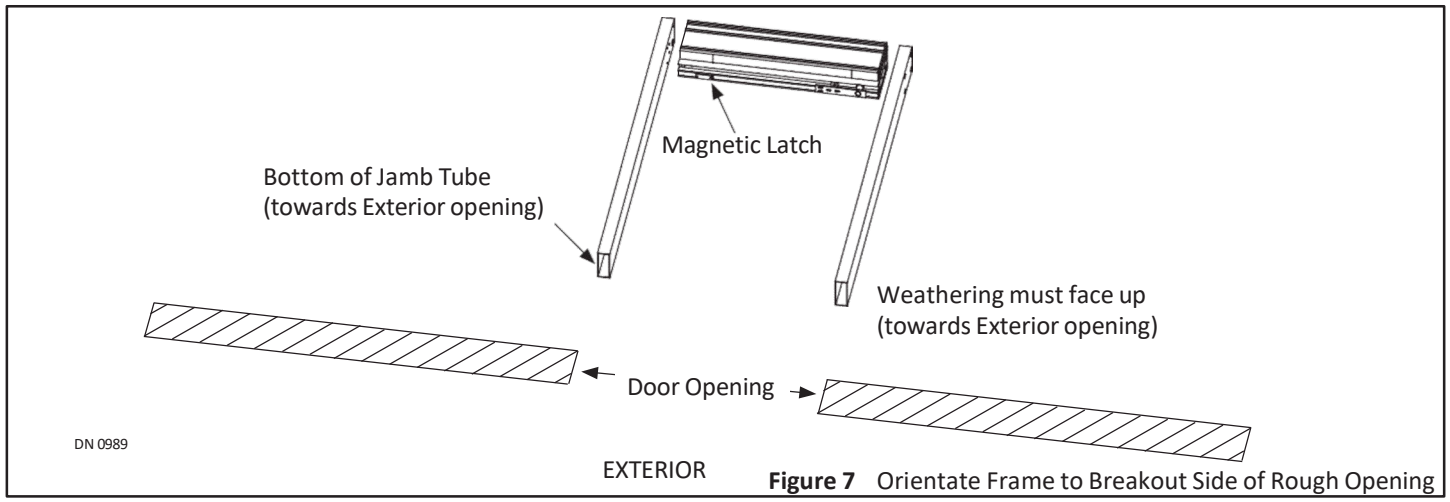


Figure 7 Orientate Frame to Breakout Side of Rough Opening

3. Lift to position the assembled Frame into the rough opening.
4. Plumb Jamb tubes in both planes to ensure the rough opening allows a 1/4-inch clearance. Shim back of Jamb as required.
5. Plumb the Header at the top to ensure the rough opening allows a 1/4-inch clearance. Shim top of Header as required.
6. Secure Jamb Tubes to Rough Opening accordingly.
   - ► Standard Fold Door
     - 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. Secure with appropriate Fasteners.
   - ► Hurricane Fold Door
     - Screw in anchors to secure the Frame (per manufacturer's certification document(s).

SECTION 4.3: Secure Header to Rough Opening

DANGER

Verify that each Motor is connected to the Opus Control before inserting Pin or 1/8" Allen Wrench into the Coupling Access Hole via the Access Hole on the Opus Control. Failure to do so will allow the Fold Doors to slam shut without motor braking in the event the Pin or 1/8" Allen Wrench falls out.

DANGER

Do not let go of the Guide Channel if a Pin or 1/8" Allen Wrench has not been inserted into the Coupling Access Hole, it will spring back to its original location and can result in personal injury or damage.

1. Ensure the Motor is connected to the Opus Control.
2. Swing the Guide Channel out and away from the Magnetic Latch. It will be necessary to manually hold the Guide Channel in the 90-degree position until the Pin or 1/8 inch Allen Wrench is inserted into the Coupling Access Hole.

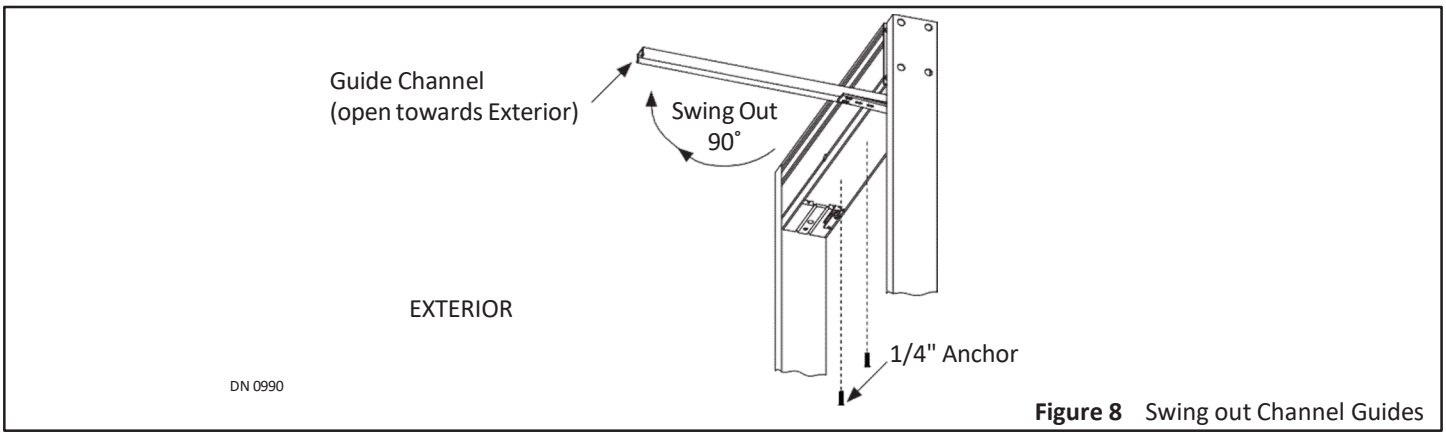


Figure 8 Swing out Channel Guides

3. Locate the access hole in the Opus Control mounting bracket which leads to the Coupling Access Hole in the Operator. Insert a Pin or 1/8-inch Allen Wrench into both Access Holes.
4. Insert a Pin or 1/8-inch Allen Wrench into both Access Holes.

DANGER

Do not allow the Pin or 1/8-inch Allen Wrench to drop out of the Access Hole at any time during installation. The Guide Channel will spring back to its original location and can result in personal injury or damage.

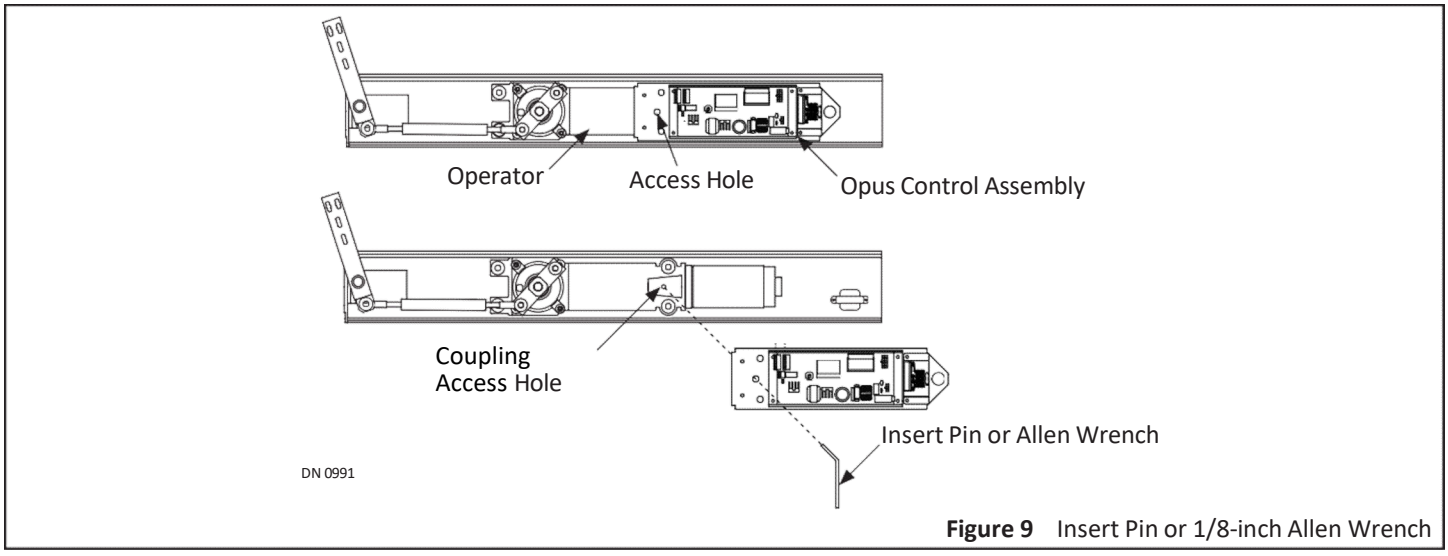


Figure 9 Insert Pin or 1/8-inch Allen Wrench

5. With the Guide Channel locked into the 90-degree open position, secure Header to the rough opening:
   - ▶ Standard Fold Door
     - Use 1/4-inch diameter anchors with a maximum 48 inches on center. First anchor maximum is 36 inches from each end of the Header. Secure with appropriate Fasteners.
   - ▶ Hurricane Fold Door
     - Screw in anchors to secure the Frame (per manufacturer's certification document(s).

CHAPTER 5: SECONDARY ASSEMBLY (Handing and Installing the Door Panel)

SECTION 5.1: Handing

5.1.1 How to Determine Handing

The easiest way to determine Handing is to partially open the folding door and then stand in the threshold area with your back facing the hinge side of the door frame. If the folding door fully OPENS to the LEFT, it is a left-hand door. If the folding door fully OPENS to the RIGHT, it is a right-hand door.

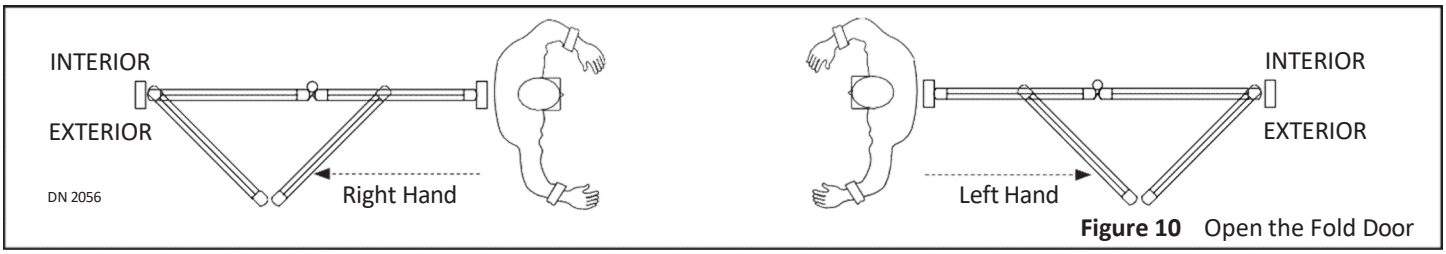


Figure 10 Open the Fold Door

5.1.2 The Handing Harness

NOTE: *The Handing Harness is used for Right-Handed Units only. Left-Handed Units do not use a Handing Harness.*

1. Obtain the Handing Harness.
2. Connect the (Break Module Harness) Female Pin to the Male Pin Housing (Handing Harness).
3. Connect the (Break Module Harness) Male Pin Housing to the Female Pin (Handing Harness).

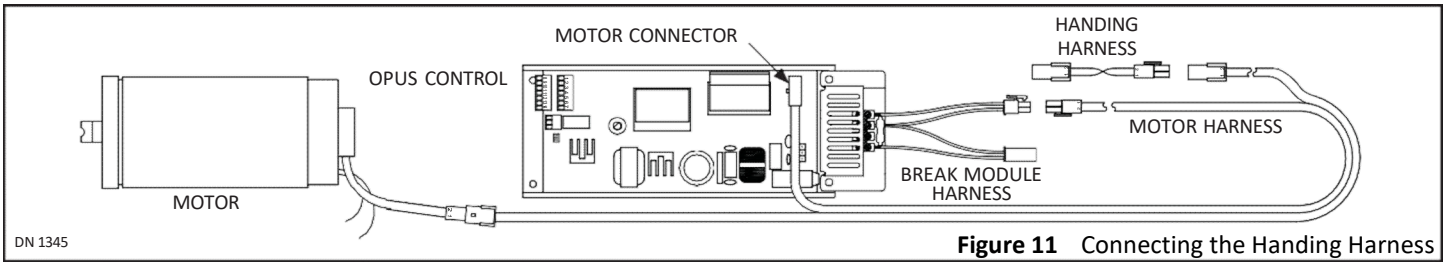


Figure 11 Connecting the Handing Harness

SECTION 5.2: Install the Folding Door

5.2.1 Install the (Floor Portion) of Bottom Pivot

1. Obtain the Bottom Pivot Parts Box provided by NABCO. (2) 1/4 - 20 round head screws provided by the Pivot Manufacturer are not required.
2. Insert the Bottom Pivot into the Notch located at the bottom of Jamb tube. Secure with (1) 1/4-20 x 7/8-inch screw.

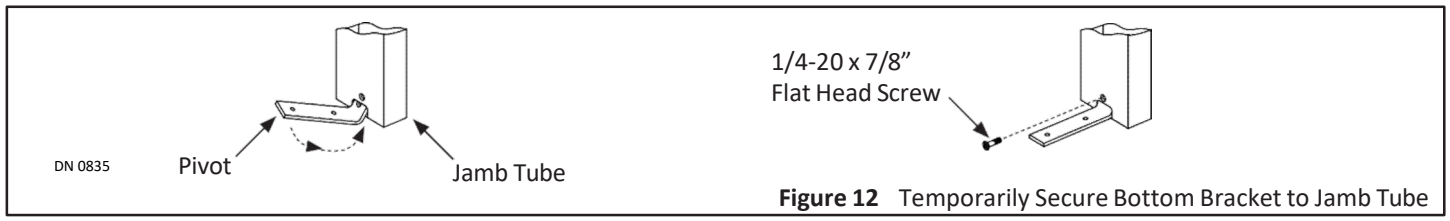


Figure 12 Temporarily Secure Bottom Bracket to Jamb Tube

3. Using the Bottom Pivot as a template, drill down through (2) screw holes with a 1/4-inch Masonry drill bit at least 1-1/2 inches into the floor.
4. Insert (1) 1-1/2 inch Anchor into each drilled hole.
5. With the open end pointing to Jamb Tube, align screw holes with the Bottom Pivot (The Pivot Plate can be adjusted by sliding it in either direction).
6. Secure the Pivot Base Bracket to the Bottom Pivot with (2) #14 x 1-1/2 inch Phillips Head Screw.
7. Screw the Pivot Bearing onto the Thread Post.

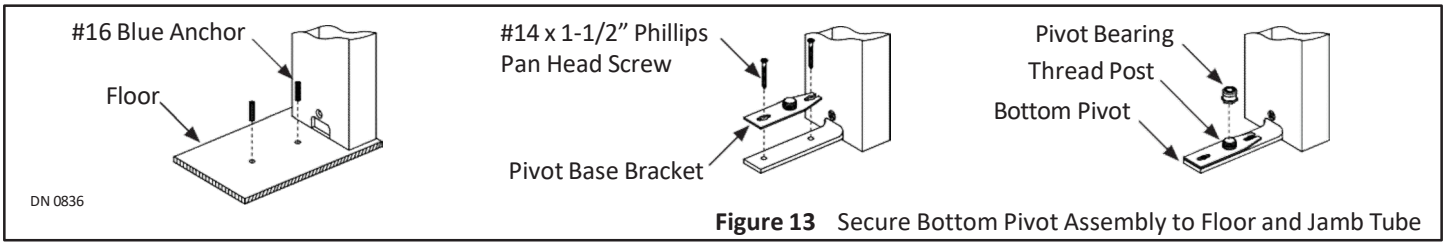


Figure 13 Secure Bottom Pivot Assembly to Floor and Jamb Tube

5.2.2 Install the Bottom Pivot (Door Portion)

1. Lay the Folding Door onto a flat surface. Go to the Bottom Rail. Locate (2) pre-drilled holes inside Web.
2. Insert the Bottom Pivot (Door Portion) onto the Spacer. Align screw holes to the Web. Secure the Bottom Pivot Assembly to the Bottom Rail with:
   - ► (2) 1/4 - 20 x 1-1/4" Hex Screws when Spacers are used.
   - ► (2) Phillips Head Screws (packed in Part Bag 14-102345) when Spacers are not used.

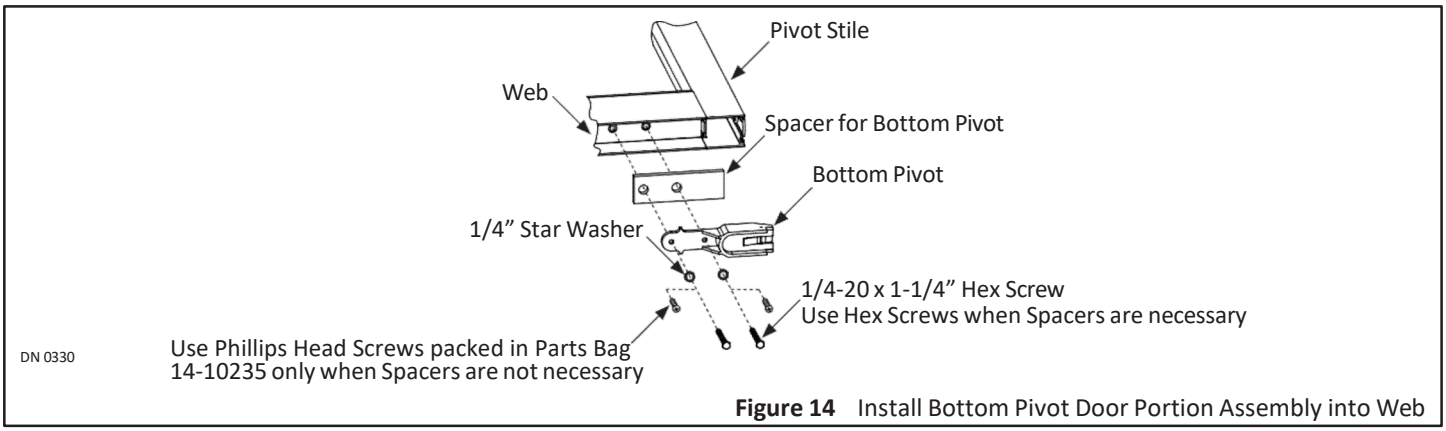


Figure 14 Install Bottom Pivot Door Portion Assembly into Web

5.2.3 Secure Spindle Drive Bar to Folding Door

NOTE: *The Drive Bar is installed to the Channel Guide at the NABCO Factory for shipping purposes only and must be removed from the Channel Guide before the Folding Door can be installed.*

1. Ensure the Pin or 1/8-inch Allen Wrench is still inserted into the Coupling Access Hole.
2. Go to the Spindle Drive Bar. Remove the Hex Bolt and Nut.
3. Release the Spindle Drive Bar from the Guide Channel. The Spindle Drive Bar can be pushed up toward the Header or down into the Top Web of the Folding door but will remain at a 90-degree angle.
4. The Guide Channel can now freely swing closed or open. Swing the Guide Channel up against the Magnetic Latch.

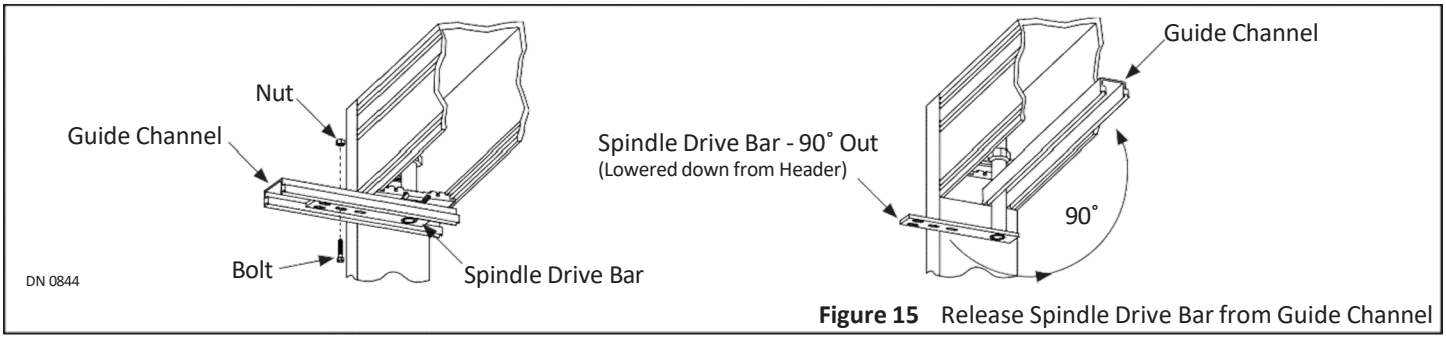


Figure 15 Release Spindle Drive Bar from Guide Channel

5.2.4 Secure Folding Door to Frame

1. With the Folding Door still on a flat surface, go to the Pivot End of the Top Web.
2. Remove (4) 1/4-20 x 3/4-inch Hex Head Screws and (4) 1/4-inch Star Washers from Riv-nuts located inside the Web.

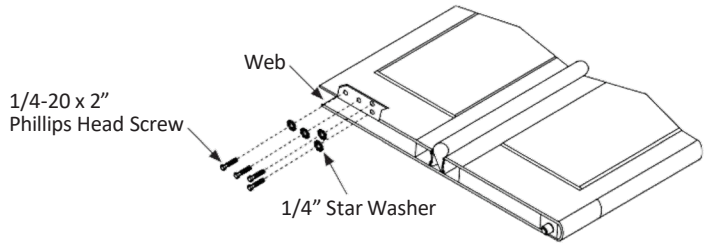


Figure 16 Remove Screws and Star Washers

3. Lift the Folding Door from the flat surface. Keep Door Panels loosely folded.
4. Tilt the Folding Door to slide the Spindle Drive Bar into the Pivot end of Top Web. The Spindle Drive Bar can be pushed up toward the Header to allow clearance.
5. Upright the Folding Door to slide the Bottom Pivot onto the Pivot Bearing located inside the Bottom Rail.
6. Go back to the Top Web. Lower the Spindle Drive Bar until it butts up against the Web.
7. Secure the Spindle Drive Bar to the Web with (4) 1/4-20 x 3/4-inch Hex Head Screws and (4) 1/4 inch Star Washers that were saved for reinstallation.
   a. Do not tighten down bolts at this point. Bolts need to be loose enough to allow the Folding Door to be adjusted.

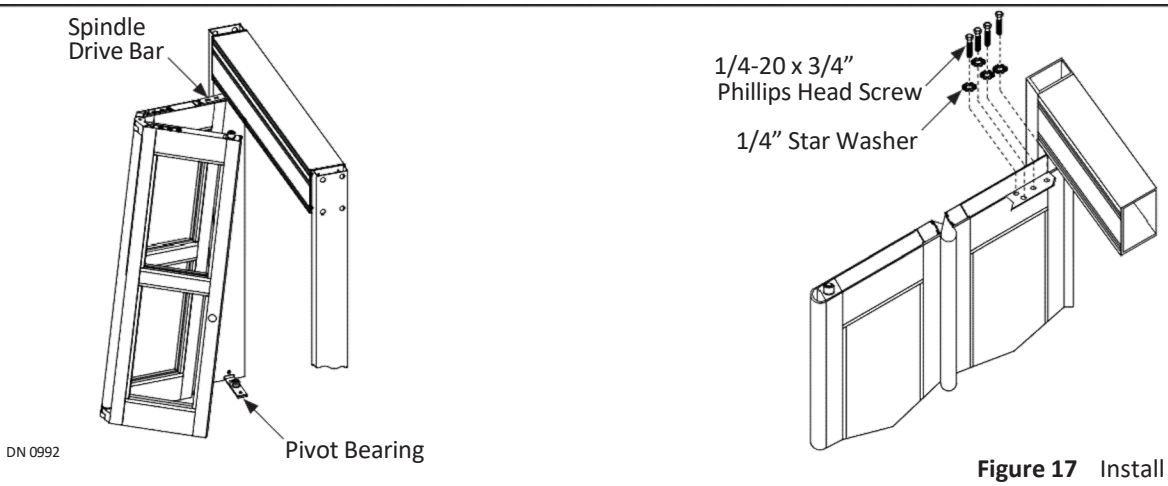


Figure 17 Install Folding Door

5.2.5 Secure Guide Channel to Folding Door

1. Manually hold open the Folding door while removing the Pin or 1/8-inch Allen Wrench from the Coupling Access Hole.
2. Swing out and then lift the Guide Channel so it is directly on top of the Guide Roller located inside the Top Web at the Strike end. Drop the Guide Channel onto the Guide Roller. Allow the Folding door to close without slamming closed.

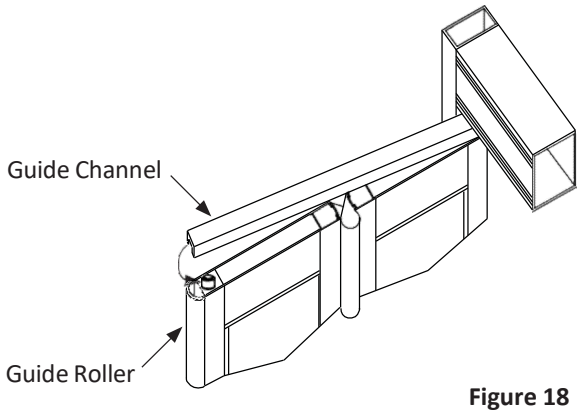


Figure 18 Drop the Guide Channel onto the Guide Roller

3. Adjust Door Panels so the gaps around the Top, Bottom, and Sides are parallel to the Jamb Tubes, Header, and Threshold.
   a. Adjustments can be made using the Top Pivot Bracket and Bottom Pivot Bearing.
4. Tighten down the (4) 1/4-20 x 3/4-inch Hex Head screws and (4) 1/4-inch Star Washers.

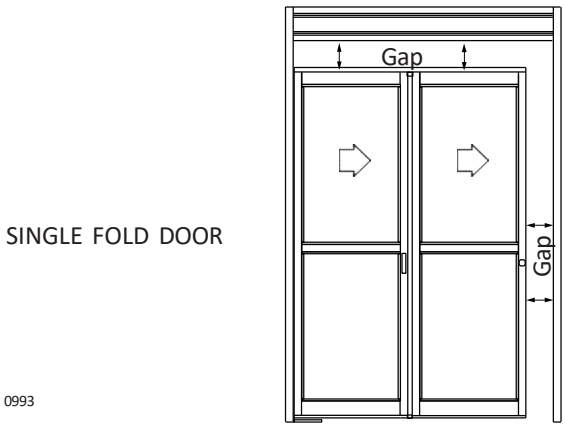


Figure 19 Square Fold Door Panels

5. Push on the Bar located in the middle of Bi-Fold Panels to manually fold open the Door.
6. Go to the Spindle Drive Bar located inside the Top Web, at the Pivot end.
7. Obtain (1) Split Plastic Bushing that was provided by NABCO.
8. Push the Split Plastic Bushing around the Spindle between the Guide Channel and Spindle Drive Bar.

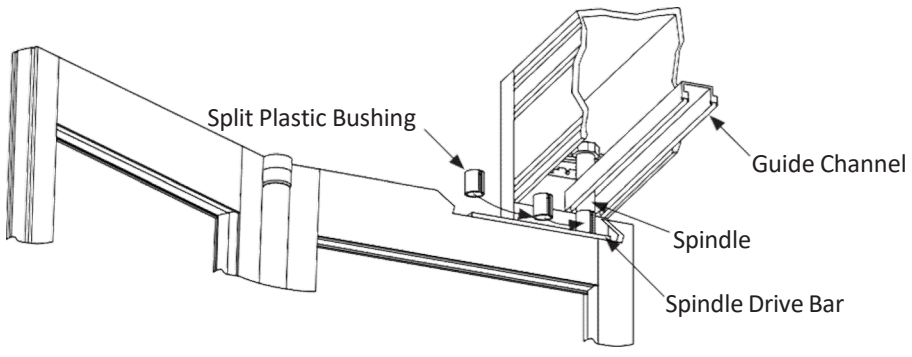


Figure 20 Push Split Plastic Bushing around the Spindle

CHAPTER 6: END PROCESSES (120 VAC Wiring, Adjust the Folding Door, Install Weathering, and Glazing)

SECTION 6.1: 120 VAC Wiring

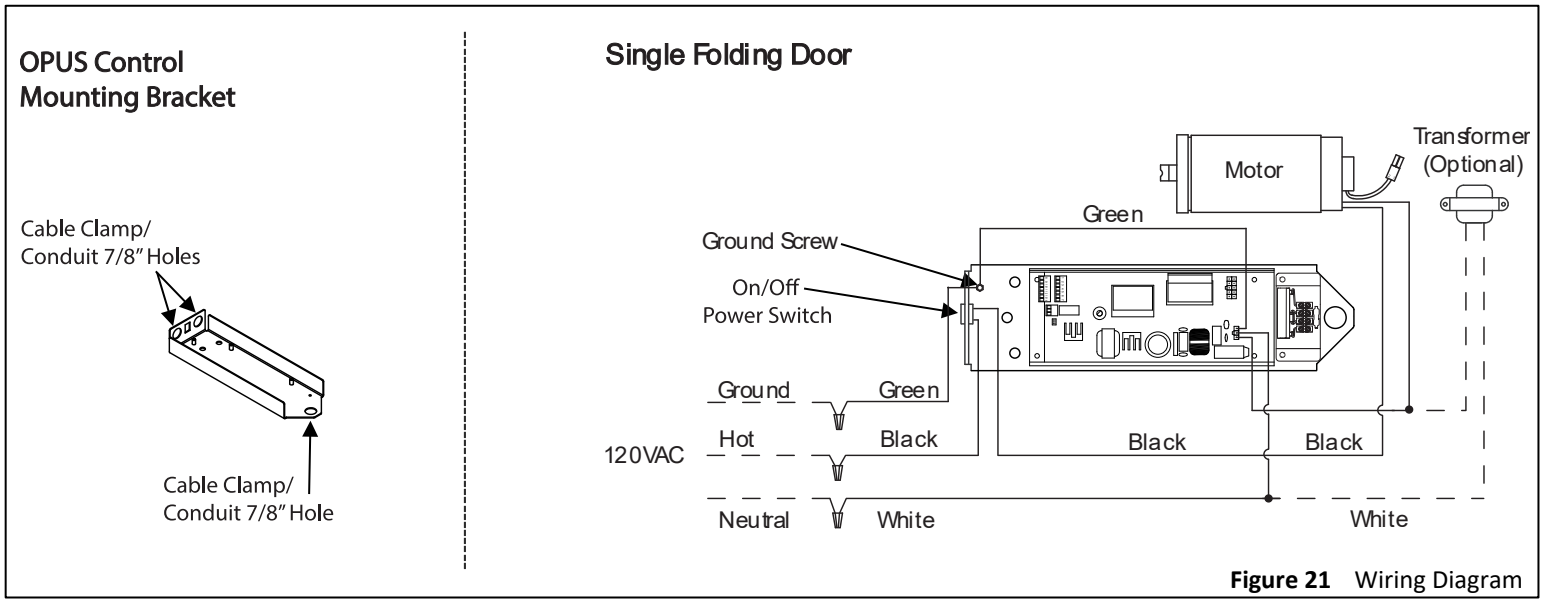


Figure 21 Wiring Diagram

DANGER **All 120 VAC electrical wiring work performed must meet all local, state, federal and/or other governing agency codes. All electrical troubleshooting or service must be performed by qualified electrical technicians and must comply with all applicable governing agency codes.**

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

SECTION 6.2: Adjust Folding Door

NOTE: *Each Push Rod has been pre-installed at the NABCO Factory to ensure the Folding door will fully close under normal operation. However, after installation, adjustments may be necessary.*

1. Go to the Push Rod that needs to be adjusted. Loosen both Hex Locknuts.
   a. One Hex Locknut has left hand threads, the other Hex Locknut has right hand threads.
2. Turn the Push Rod clockwise or counterclockwise to lengthen or shorten the Push Rod until the Folding Door can fully close with both door panels flat.
   a. One end of each Push Rod has left-hand threads; the other end has right hand threads.
3. Re-tighten both Hex Locknuts. Do not overtighten.

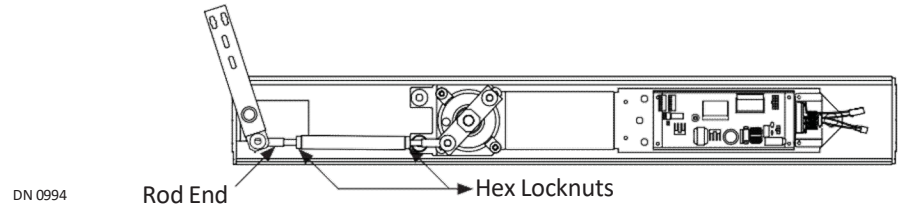


Figure 22 Lengthen/Shorten the Push Rod

SECTION 6.3: Install Weathering

***NOTE**: Weathering Extrusions are pre-installed with a brush at the NABCO. Weathering Extrusions are bent at the NABCO Factory to fit the shape of the Door Hinge.*

1. Go to the Outside bottom of the door. Position the Weathering Extrusion so the bent portion lays on top of the Door Hinge.
2. Secure the weathering brush to Folding door panels with #6 x 1/2-inch self-tapping, color matched screws.

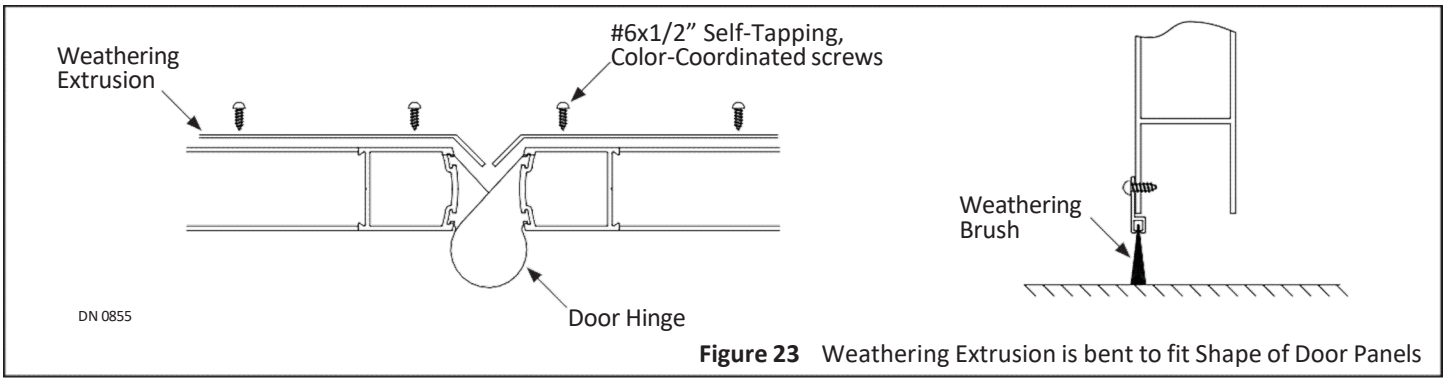


Figure 23 Weathering Extrusion is bent to fit Shape of Door Panels

SECTION 6.4: Glazing

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

NOTICE **Per Chapter 24 of the International Building Code (IBC), all glass must comply with ANSI Standard Z97.1 (Glass and Settings Blocks are not provided by NABCO).**

NOTE: *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.*

6.4.1: Door Panel

NOTE: *Place Setting Blocks in the designated marked spots, only.*

1. Ensure the Base Glass Stop (Preinstalled 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 the 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 (not provided by NABCO) on top of the Base Glass Stops.
5. Place the Glass Panel up against the Vinyl and set it on top of the Setting Blocks.
6. Shift the Glass Panel until it is square.
7. Secure the Glass Panel with Snap-In Glass Stops (Provided by Nabco).

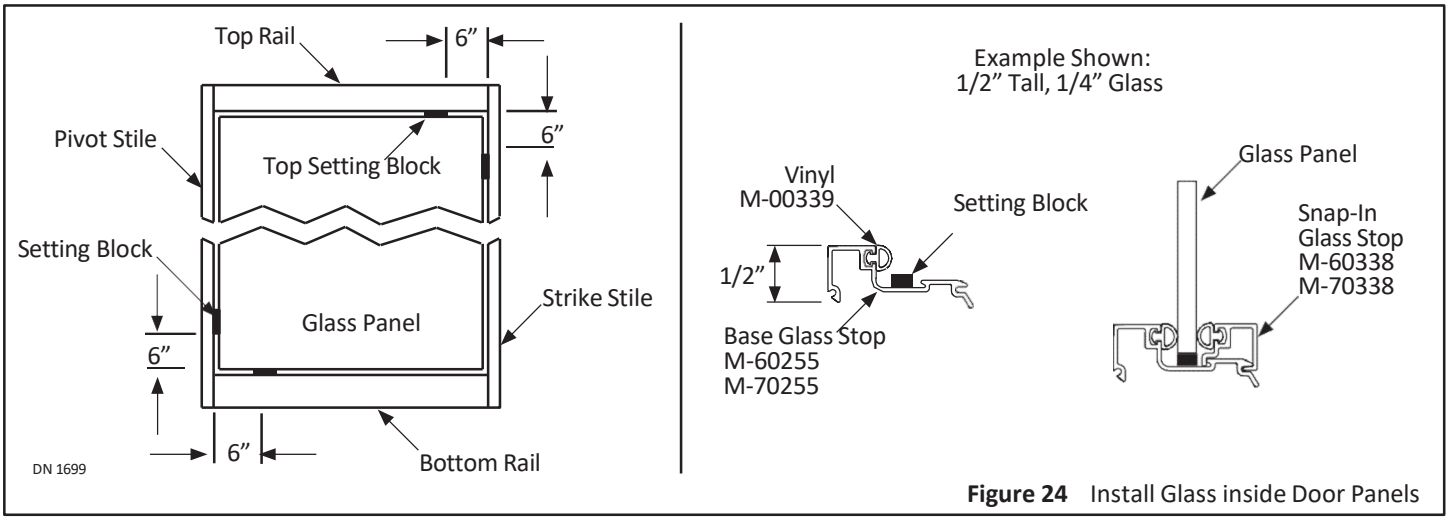
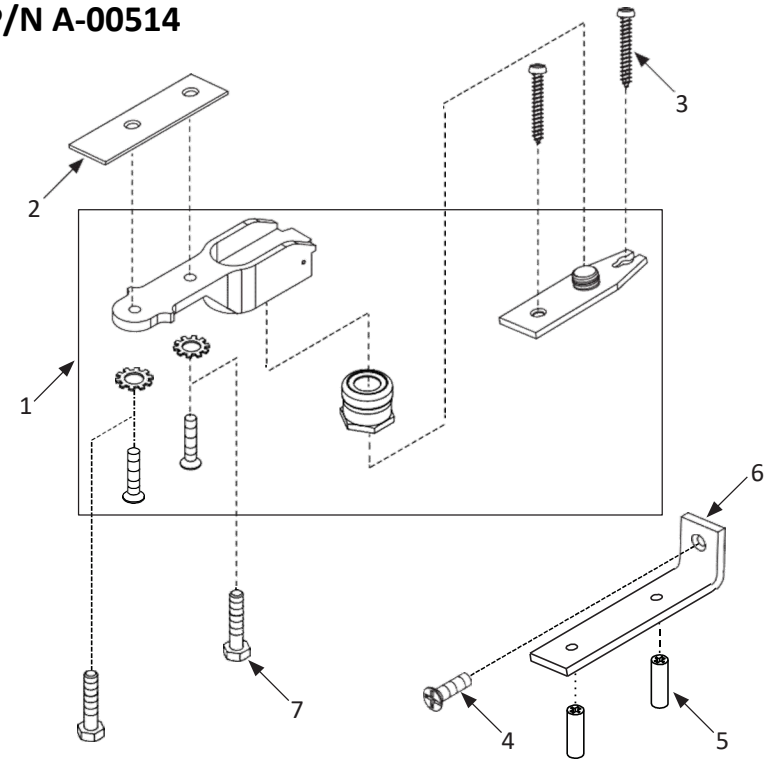


Figure 24 Install Glass inside Door Panels

SERVICE PARTS: BAG P/N A-00514

Floor Pivot Assembly

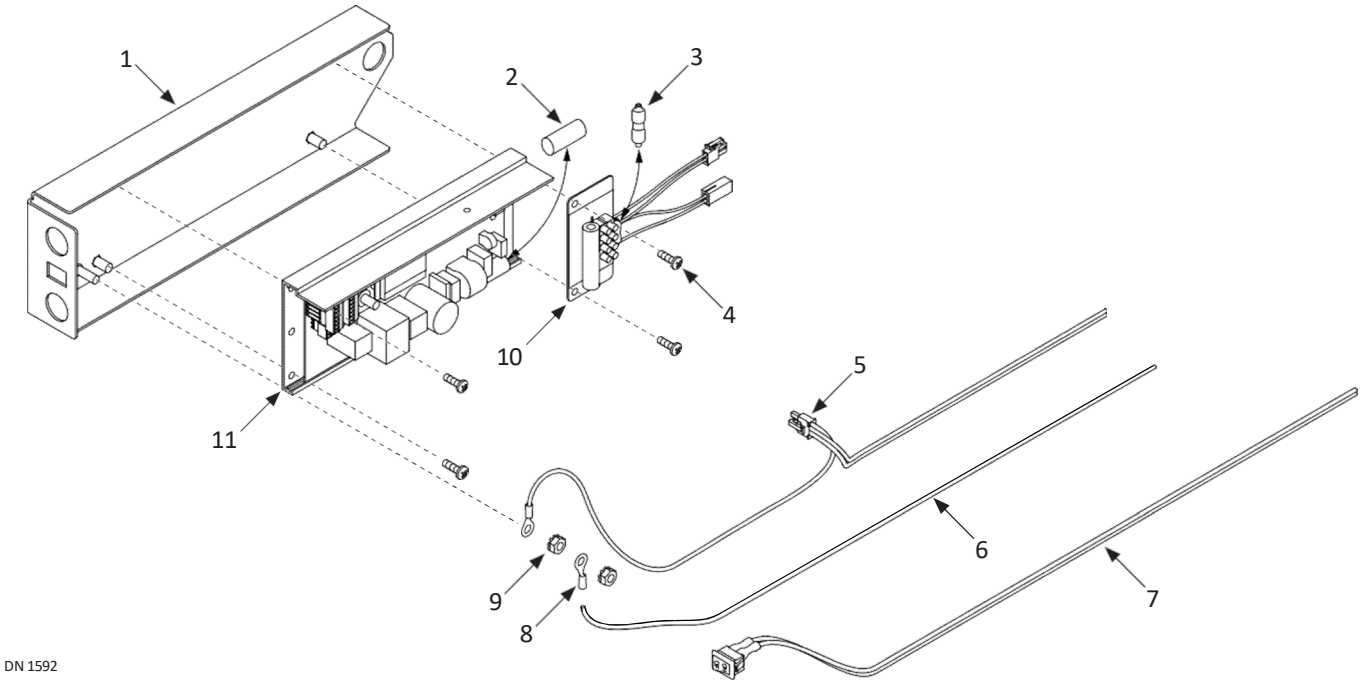


Single Fold Door Part Bag A-00514

Item	Part	QTY	Description	Used To
1	A-01089	1	FLOOR PIVOT, CENTER HUNG, MACHINED	Connect Floor Pivot Assembly to bottom of Swing Door
2	A-01047	1		Adjust the height of the Center Hung Floor Pivot until it is flush to the bottom of Swing Door
3	T-00459	2	PHSMS,14x1.500L., PHIL, ZINC, AB	Secure Floor Pivot Assembly to Floor
4	T-00124	1	"FHMS,1/4-20x0.875L., PHIL, ZINC"	Secure Pivot Base Bracket to Pivot Jamb Tube
5	T-00314	2	SCREW ANCHOR, #16 X 1" LG	Secure Floor Pivot Assembly to Floor
6	M-01115	1	BRACKET, PIVOT BASE	Secure Floor Pivot Assembly to Pivot Jamb Tube
7	T-00330	2	HHCS 1/4-20x1.25 L.	Secure Center Hung Floor Pivot to Bottom of Swing Door only if a Pivot Spacer is used

SERVICE PARTS: OPUS CONTROL

A-01135 with Switch; A-00136 without Switch

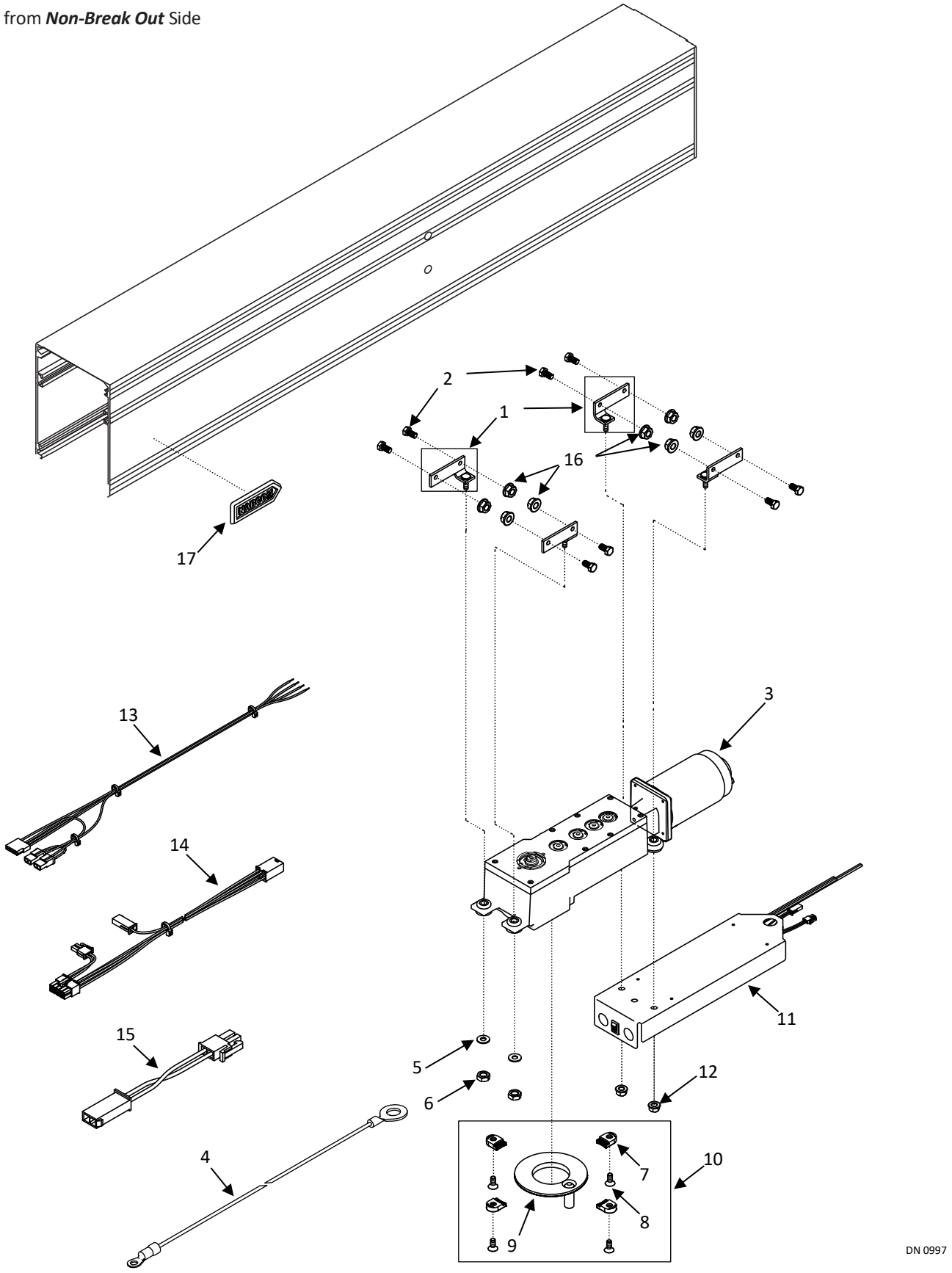


Opus Control

Item	Part	Finish/Sizes/Notes	Description
1	M-01736		BRACKET, BIFOLD, OPUS
2	V-00552	Used on Opus Control	FUSE;5A; GMA; 5X20mm
3	V-00288	Used on Brake Module	FUSE, 3 AMP,250V, FAST, 2AG, AXIAL LEAD
4	T-00078		PHMS,10-32x0.625L., PHIL, ZINC
5	M-01072		HARNESS, POWER, MAGNUM/OPUS
6	T-00282	22-inch	WIRE,18 AWG,600V, UL 1015, GREEN
7	M-01182		HARNESS, POWER, ROCKER SWITCH
8	T-00362		TERMINAL, RING,1/4", RED
9	T-00419		NUT, HEX, 1/4-20, KEPS, ZINC
10	A-01003		MODULE, BRAKE, OPUS
11	M-01546		CONTROLLER, OPUS

SERVICE PARTS: HEADER (TOP HALF)

Viewed from ***Non-Break Out*** Side

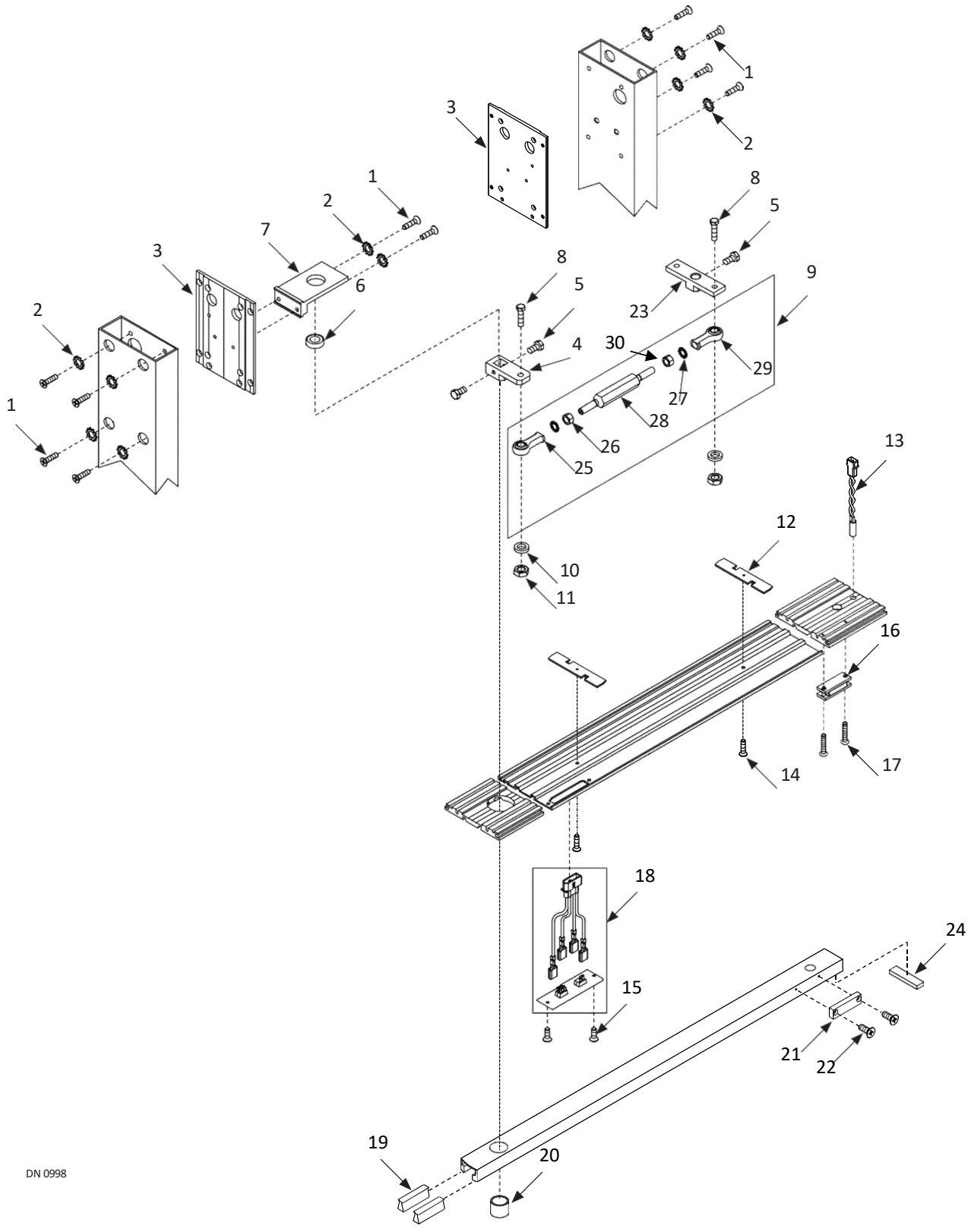


Header Top Half

Item	Part	Finish/Sizes/Notes	Description
1	M-01220	RH	OPERATOR, MOUNT, WELDMENT, RH BI-FOLD
	M-01219	LH	OPERATOR, MOUNT, BIFOLD, LH
2	T-00126		“HHCS,5/16-240.625L., ZINC”
3	A-01290	LH	OPER, SWGR, W/ENCOD, ROF, LH, NO CLUTCH, BFOLD
	A-01291	RH	OPER, SWGR, W/ENCOD, ROF, RH, NO CLUTCH, BFOLD
4	A-00620		GROUND WIRE:SWING OPERATOR
5	T-00092		WASHER, .438 ID, 1.00 OD, .083 THK, ZINC
6	T-00067		NUT, HEX, JAM, 3/8-16, ZINC
7	M-01159		RING, STOP - HOLD DOWN
8	T-00334		FHMS:5/16-18x0.750L.:SOKT:ZN
9	M-01475		LIMIT STOP:C.U.
10	A-00489		STOP, RING ASSY
11	A-01135	With Switch	CONTROLLER, BI-FOLD, W/ SWITCH, OPUS CONTROLLER, BI-FOLD,
	A-01136	Without Switch	W/O SWITCH, OPUS
12	T-00025		NUT, WHIZLOCK, 3/8-16, ZINC
13	A-00806		HARNESS, SWITCH, BIFOLD, OPUS
14	A-01000		HARNESS, MOTOR, OPUS
15	A-01001		HARNESS, HANDING, OPUS
16	T-00309		NUT, HEX,5/16-24, WHIZLOCK
17	C-00067		NAMEPLATE, NABCO LOGO

SERVICE PARTS: HEADER (BOTTOM HALF)

Viewed from ***Non-Break*** Out Side

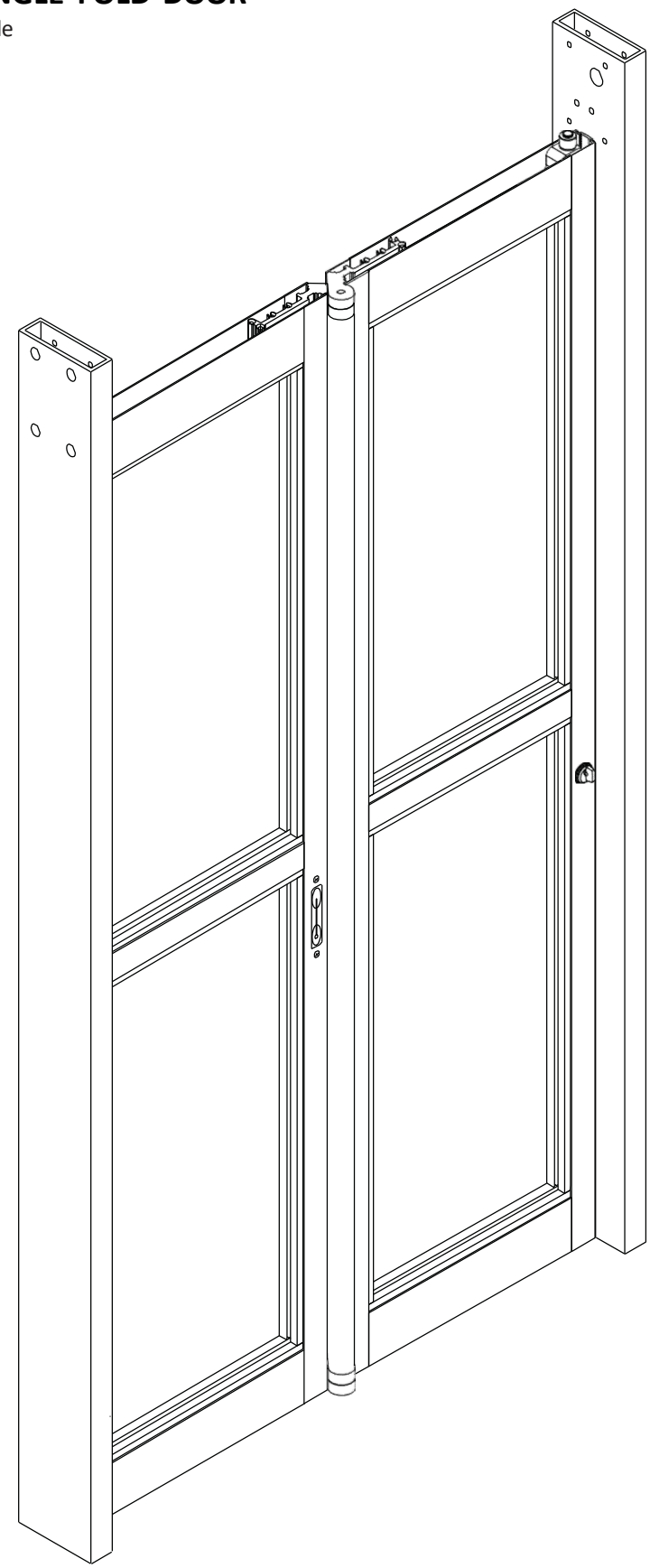


Header Bottom Half

Item	Part	Finish/Sizes/Notes	Description
1	T-00064		HHCS,1/4-20x0.750L., ZINC
2	T-00087		WASHER, LOCK, EXT, 1/4 ID, ZINC
3	A-60739	Clear	“END CAP, HEADER, BIFOLD,204”
	A-70739	Dark Bronze	“END CAP, HEADER, BIFOLD,313”
4	M-01335		ARM, BELL CRANK, BI-FOLD SPINDLE
5	T-00126		“HHCS,5/16-240.625L., ZINC”
6	V-00328		“BEARING, RADIAL,15MM IDX32MM ODX9MM”
7	A-00629		GUIDE:UPPER SPINDLE:BIFOLD
8	T-00408		“HHCS,3/8-24x1.500L., ZINC”
9	A-01161		PUSH ROD;SINGLE FOLD
10	M-00450		SPACER, MTG.END CAP
11	T-00074		NUT, HEX, NYLOCK,3/8-24, ZINC
12	M-01177		LOCK COVER PLATE - BOTTOM
13	A-00758		SWITCHBREAKOUT
14	T-00391		“FHMS,10-24x0.750L., PHIL, ZINC”
15	T-00031	Black Zinc	FHMS,10-32x0.500L., PHIL, UCUT, T-LOBE, BKZN
	T-00184	Zinc	FHMS,10-32x0.500L., PHIL, UCUT, TRI-LOBE, ZN
16	A-00728		“MAGNETIC LATCH, RETROFIT KIT”
17	T-00368		PHMS:10-24x1.250L.:PHIL
18	A-01048		SWITCH, ROCKER, BIFOLD, OPUS
19	M-00499		WEATHERING:PILE:.27W X .25H:W/ ADH & FIN
20	V-00188		BEARING SLEEVE,1.181ODx.984IDx
21	M-01518		LATCH BLOCK
22	T-00241		FHMS,10-24x0.500L., PHIL, ZINC
23	M-01208		ARM, BELL CRANK, OPERATOR
24	M-00282		FLEXIBLE MAGNETIC STRIP
25	V-00214	RH	ROD END, THREAD RH
26	T-00264		NUT, HEX, 3/8-24, ZINC
27	T-00384		WASHER:EXT:3/8ID :ZINC
28	M-01338		PUSH ROD, SINGLE FOLD
29	V-00216	LH	ROD END, THREAD LH
30	T-00448		NUT, HEX, 3/8-24, LH, ZINC

SERVICE PARTS: SINGLE FOLD DOOR

Viewed from ***Non-Break*** Out Side

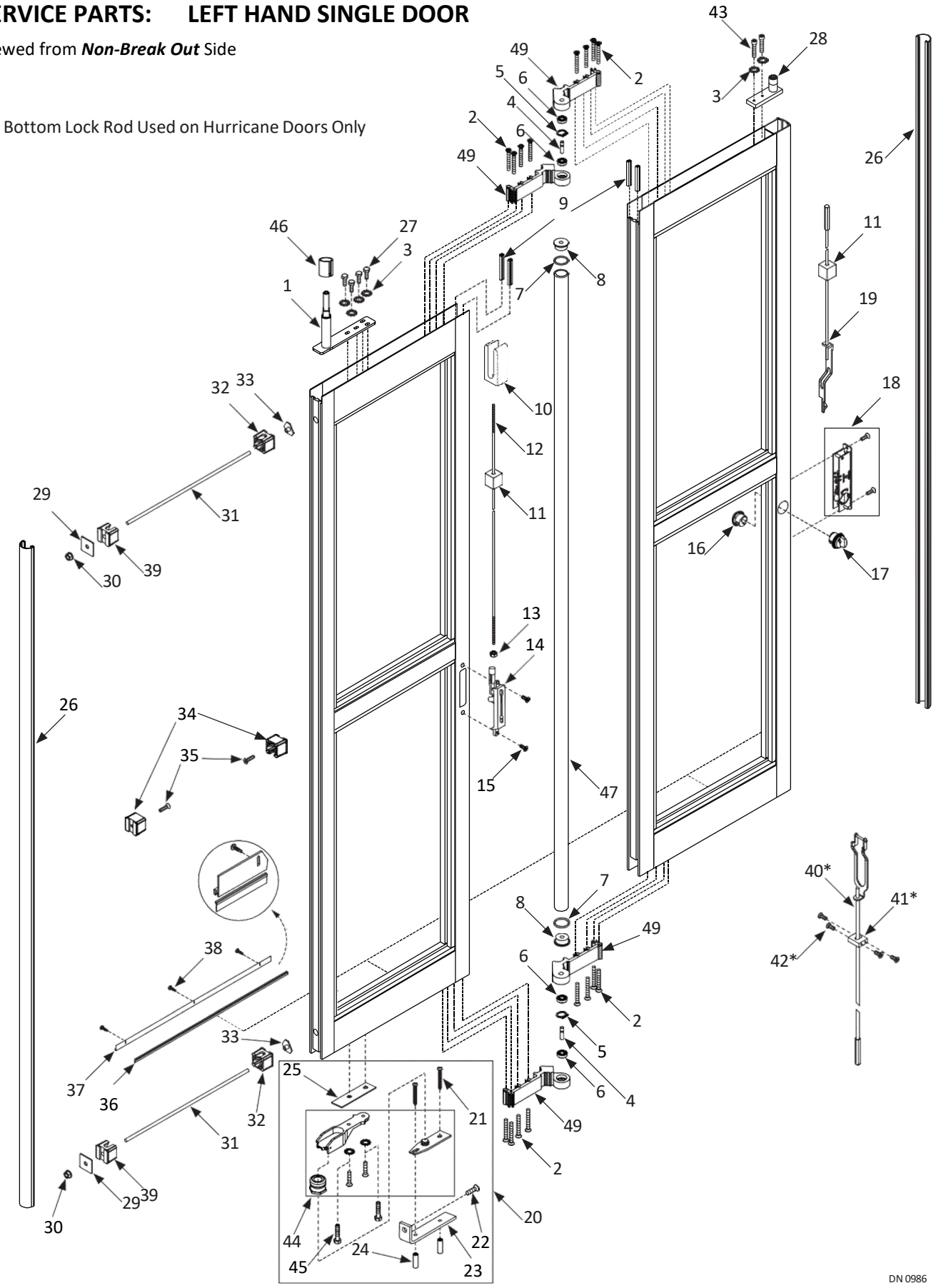


DN 0996

SERVICE PARTS: LEFT HAND SINGLE DOOR

Viewed from ***Non-Break Out*** Side

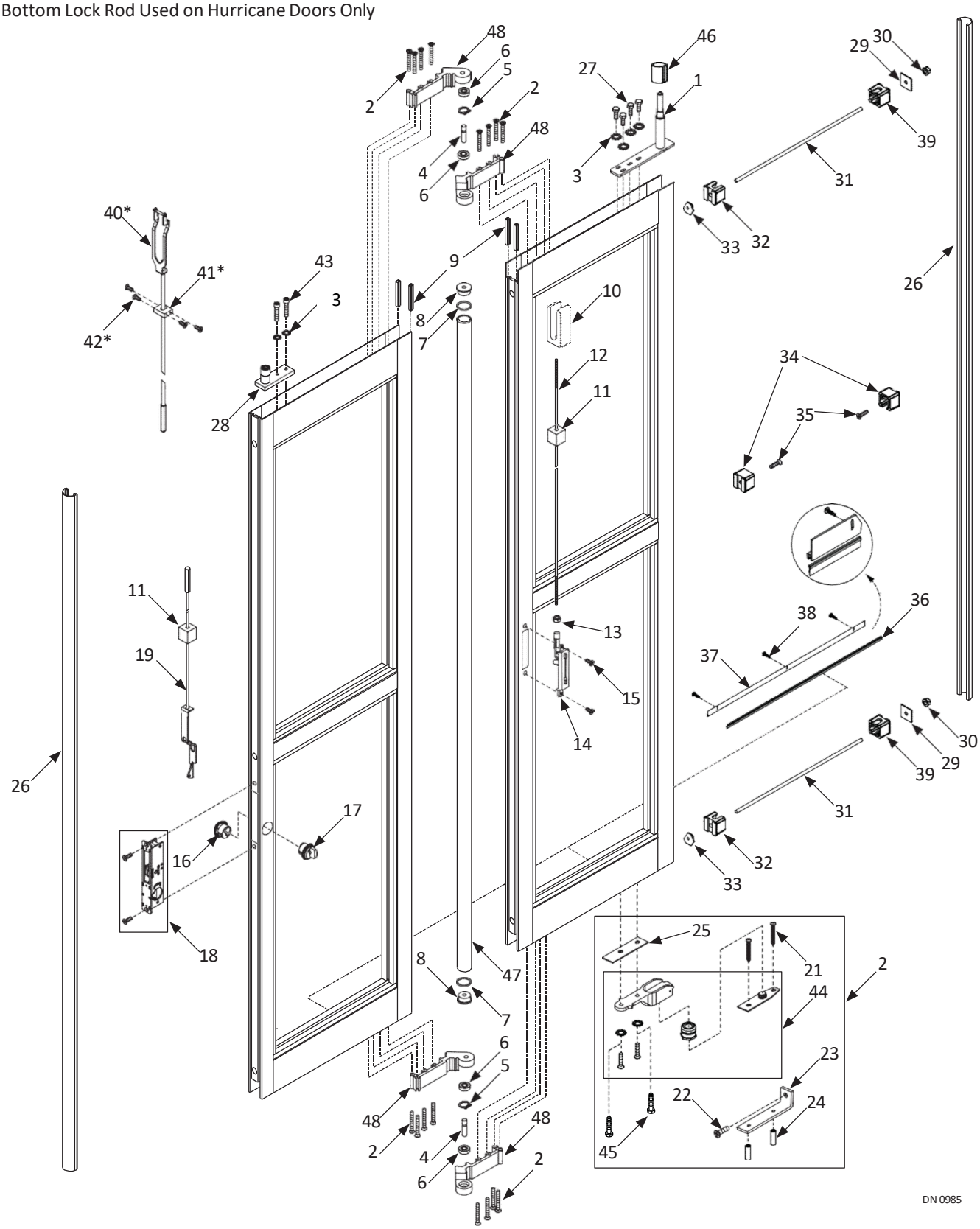
* Bottom Lock Rod Used on Hurricane Doors Only



SERVICE PARTS: RIGHT HAND SINGLE DOOR

Viewed from ***Non-Break Out*** Side

* Bottom Lock Rod Used on Hurricane Doors Only



Single Fold Door

Item	Part	Finish/Sizes/Notes	Description
1	M-01142		DRIVEBAR, WLDMNT NH COMP W/8969-8970
2	T-00172		FHMS,1/4-20x2.000L., PHIL, ZINC
3	T-00087		WASHER, LOCK, EXT, 1/4 ID, ZINC
4	M-00952		PIN, HINGE, BI-FOLD
5	T-00271		RING, RETAINING, EXT, SHAFT, 0.394 DIA
6	T-00202		BEARING, RADIAL,10mmID,26mmOD,8mmW
7	V-00157		O-RING,1.50ODx1.25ID, EPDM
8	M-01111		END PLUG, HINGE TUBE
9	M-00499		WEATHERING:PILE:.27W X .25H:W/ ADH & FIN
10	M-01267		PIVOT, PANEL, LOCK BOLT
11	M-00974		BLOCK, FOAM
12	V-00137		LOCK ROD, 1/4-20X13L.PROD.MOD.
13	T-00002		NUT, HEX,1/4-20, ZINC
14	V-00113	Clear	FLUSH BOLT, ROUND FACE,204
	V-70113	Dark Bronze	FLUSH BOLT, ROUND FACE,313
15	T-00043		FHMS,10-24x0.375L., PHIL, UNDERCUT, ZINC
16	V-00123	Silver	CYLINDER, LOCK, KEYED,204
	V-70123	Dark Bronze	CYLINDER, LOCK, KEYED,313
17	V-00116	Silver	CYLINDER, LOCK, THUMBTURN,204
	V-70116	Dark Bronze	CYLINDER, LOCK, THUMBTURN,313
18	V-00012		FLUSHBOLT, ADAMSRITE MS1870
19	V-00094		LOCKROD, ADAMS-RITE #4015
20	A-00514		FLOOR PIVOT ASY - BIFOLD
21	T-00459		“PHSMS, 14x1.500L., PHIL, ZINC, AB”
22	T-00124		“FHMS,1/4-20x0.875L., PHIL, ZINC”
23	M-01115		BRACKET, PIVOT BASE
24	T-00314		SCREW ANCHOR, #16 X 1” LG
25	A-01047		“PIVOT SPACER”
26	M-01171		WEATHER STRIP BLUB, BLACK IN BULK
27	T-00064		HHCS,1/4-20x0.750L., ZINC
28	A-00476		NOSE GUIDE, BIFOLD
29	M-00422		PLATE, TIE ROD
30	T-00025		NUT, WHIZLOCK,3/8-16, ZINC
31	M-00272		3/8-16 THREADED ROD
32	M-00460		CLIP, MUNTIN,.500 HOLE
33	M-00416		T-NUT, 3/8”-16, TIE ROD
34	M-00462		CLIP, MUNTIN,.261 HOLE
35	T-00061		FHMS,1/4-20x1.000L., PHIL, TRI-LOBE, ZINC
36	M-00700		BRUSH, NYLON, .44”

Single Fold Door

Item	Part	Finish/Sizes/Notes	Description
37	M-60278	Order by length, Clear	HOLDER, WEATHERING BRUSH,204, EXTRU
	M-70278	Order by length, Dark Bronze	HOLDER, WEATHERING BRUSH, 313, EXTRU
38	T-00222	Zinc	PHSMS,6x0.500L., PHIL, TEKS, ZINC
	T-00260	Black Zinc	PHSMS,6x0.500L. PHIL, TEKS BLK ZN
39	M-00461		CLIP, MUNTIN,.386 HOLE
40	V-00303	Hurricane Doors Only	LOCKROD, ADAMS-RITE #4016
41	A-00934	Hurricane Doors Only	“GUIDE, LOCK, UPPER, HURRICANE UNIT”
42	T-00176	Hurricane Doors Only	FHMS,10-32x0.500L., PHIL, UCUT,23-PT, ZINC
43	T-00037		SHCS,1/4-20x1.250L., ZINC
44	A-01089		FLOOR PIVOT, CENTER HUNG, MACHINED
45	T-00330	Only use with Pivot Spacer	HHCS 1/4-20x1.25 L.
46	M-01002		BUSHING, SUPPORT, BIFOLD BREAKOUT CHANNEL
47	M-60918	Order by length, Clear	TUBE, ALUM, HINGE, BIFOLD, 204, EXTRU
	M-70918	Order by length, Dark Bronze	TUBE, ALUM, HINGE, BIFOLD, 313, EXTRU
48	A-60446	Clear	HINGE, BI-FOLD, LH, 204
	A-70446	Dark Bronze	HINGE, BI-FOLD, LH, 313
49	A-60864	Clear	HINGE, BI-FOLD, RH, 204
	A-70864	Dark Bronze	HINGE, BI-FOLD, RH, 313