GT1175 Surface Mount with Wall Track Quick Set-Up and Part Guide
P/N C-00104 Rev 8-10-16

Nabco Entrances Inc.   S82 W18717 Gemini Drive   Muskego, Wisconsin 53150
Phone: (877) 622-2694 Fax: (888) 679-3319   www.nabcoentrances.com

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.**

Table of Contents

THIS PAGE IS INTENTIONALLY LEFT BLANK

SECTION 1:   Install the Frame

1. Go to Breakout side of rough opening. Place Header on a flat surface with the removable cover facing up.
2. Refer to the instruction sticker located on each Jamb Tube to properly orientate Jamb Tubes.
3. Remove Cover from Header. Remove Parts bag from inside Header. Set aside.
4. Measure to ensure each Jamb Tube is on the correct side of Header.
    a. Frame must be secured on Exterior Side of Building. Side of Header with removable Cover must also face Exterior side.
5. Secure Header to each Jamb Tube with 1/4-20 x 3/4" Bolts and 1/4" Star Washers.
6. Position Frame so the Slide Door can fully open without obstruction and is square/level across the surface of floor.
7. Secure Frame onto the Exterior surface of Building by marking and drilling 1/4" diameter holes on the inside face of Header every 10 - 12" (minimum). Secure with 1/4" anchors not provided by NABCO.

SECTION 2:   Install the Wall Track

1. Position the Bottom Rail so the side with a 3/4 inch gap across the bottom faces the breakout side of the building.
2. Slide the Bottom Rail onto the Muntin Clip located on the Pivot Jamb Tube.
3. Go to the Header. Locate the pre-installed Mounting Clip located at the bottom.
4. Tilt the Vertical Mullion so the Header Mounting Clip can slide into the opening. At the same time slide the Muntin Clip into the Bottom Rail.
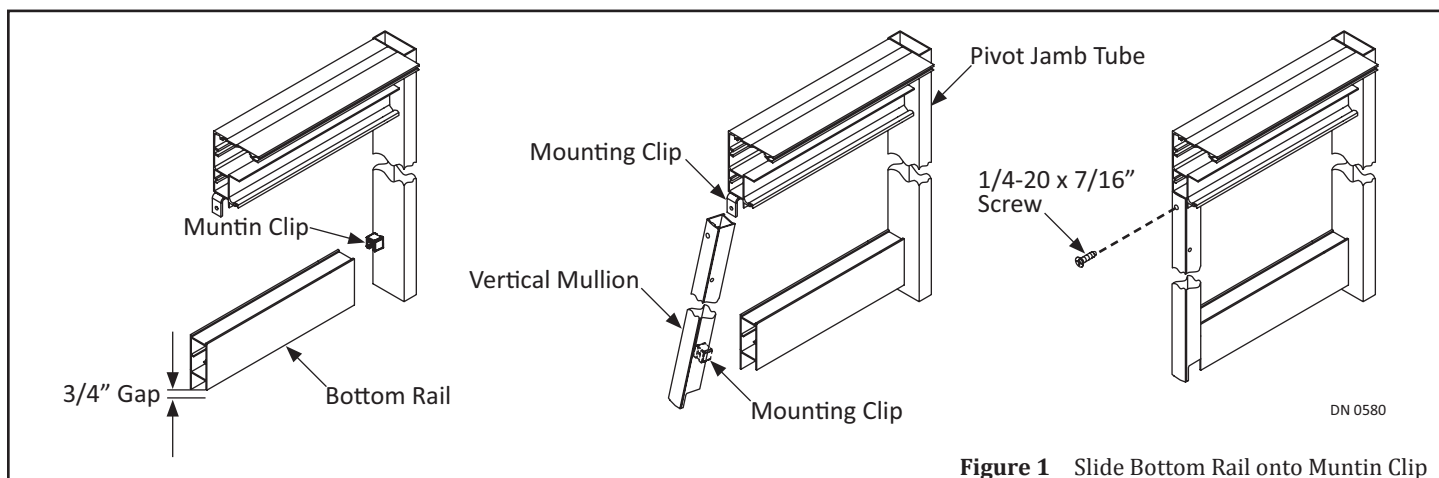
Figure 1   Slide Bottom Rail onto Muntin Clip

SECTION 3:   Install the Floor Track (Optional)

Note: Do Not permanently secure either Floor Track until the Slide Door has been installed. Failure to do so may cause misalignment.

3.1   Surface Floor Track

1. Obtain Floor Track that was cut to specification at the NABCO Factory.
2. If not installed, obtain Filler Inserts that were provided by NABCO (cut to specifications).
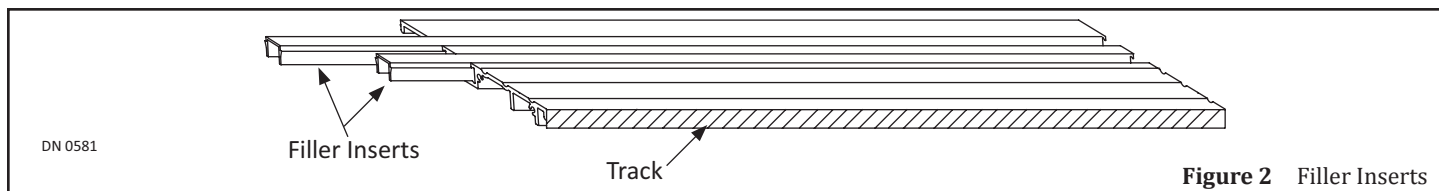
Figure 2   Filler Inserts

3. Install Filler Inserts within areas that has a door opening.
4. On the **Breakout side of opening**, snap a chalk line on the floor from Jamb to Jamb.
5. Position the Floor Track between Jamb tubes until the full length is flush with the chalk line.
    a. The Floor Track (not including Ramps) is the same width as the Jamb Tube for both types of Units.

3.2   Recessed Floor Track

1. Remove the Floor Track. Set aside.
2. Create a channel that is 1/2 inch deep x full width of Jamb Tube x full length of the Floor Track.
    a. Full length of Floor Track and width of Jamb Tube will vary according to specifications.
3. Install Filler Inserts within areas that has a door opening.
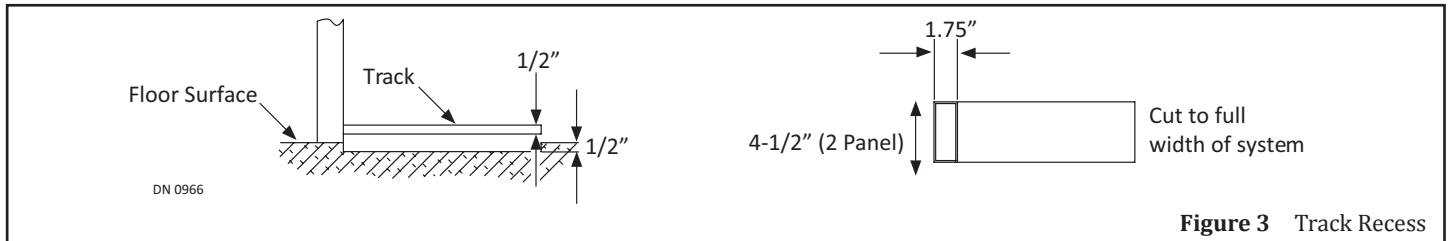
Figure 3   Track Recess

SECTION 4:   Wire the Switch Assembly

Note: *Do not secure the Switch Assembly to the Jamb Tube until after the Slide door installation is complete.*

Note: *The U30 Microprocessor Control, Main Harness comes in three lengths: 36 inches, 72 inches, and 80 inches. The length used is dependant upon the type of installation.*

There are (2) Standard Switch Assemblies that are both installed the same way:

▶   Rocker Switch; P/N 14-11876-**
▶   Key Switch; P/N 14-11875-**

1.   Go to the Header. Remove the Switch Assembly Parts box. Set Aside.
2.   Go inside the Header. Locate the Pin wiring that is attached to the U30 Microprocessor Control, Main Harness.
3.   Draw the Pin wiring through a hole located at the side of Header and Jamb Tube. Continue to route down the Jamb Tube.
4.   Pull the Pin Wiring through the cut out.
5.   Obtain (1) loose 5 Circuit Pin Housing from the Parts Box.
6.   Insert each Pin into the 5 Circuit Pin Housing accordingly:
     a.   1 = Red, 2 = White, 3 = Blue, 4 = Green, 5 = Black
7.   Obtain (1) Switch Assembly and (2) 10-32 x 1/2 inch Phillips Head Screws from the Parts Box.
8.   Connect the Switch Harness from the back of the Switch Assembly to the Main Harness.
     a.   Place extra wiring back inside the Jamb Tube.
9.   Insert the Switch Assembly into the Cut Out.
10. Secure the Switch Assembly to the Jamb Tube with (2) 10-32 x 1/2 inch Phillips Head Screws.

Figure 4   Pull Female Pin Wiring through the Jamb Tube Cut Out

SECTION 5:   Install the Bottom Guide Assembly

1.   Remove the Bottom Guide Cover located at the bottom of Vertical Mullion. Set aside.
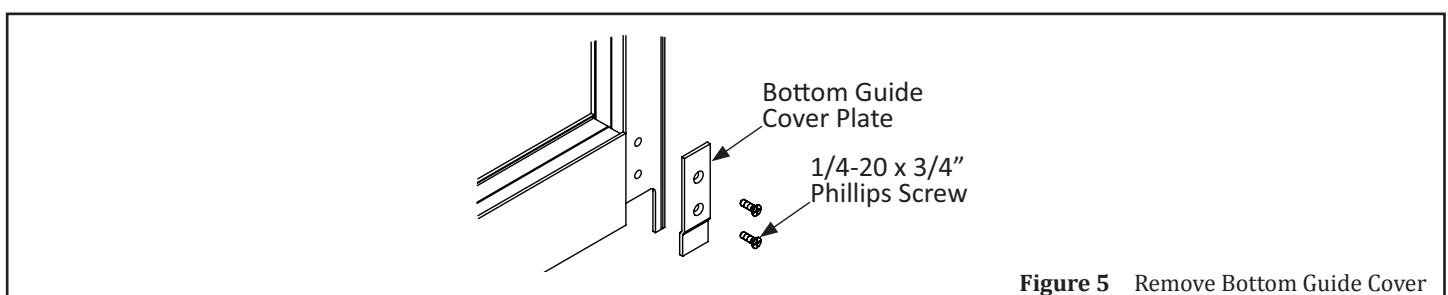
Figure 5   Remove Bottom Guide Cover

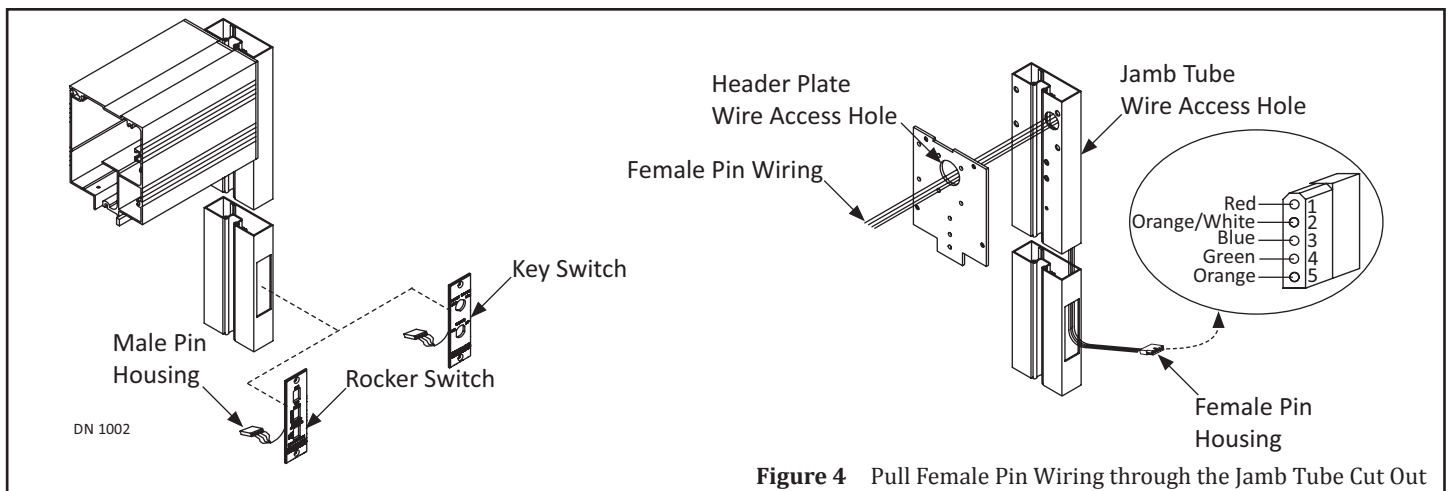2. Slide (2) rollers into the Bottom Rail so the bracket sticks out from underneath, in direction of the Slide door.
3. Reinstall the Bottom Guide Cover.

Figure 6   Install the Bottom Guide Assembly
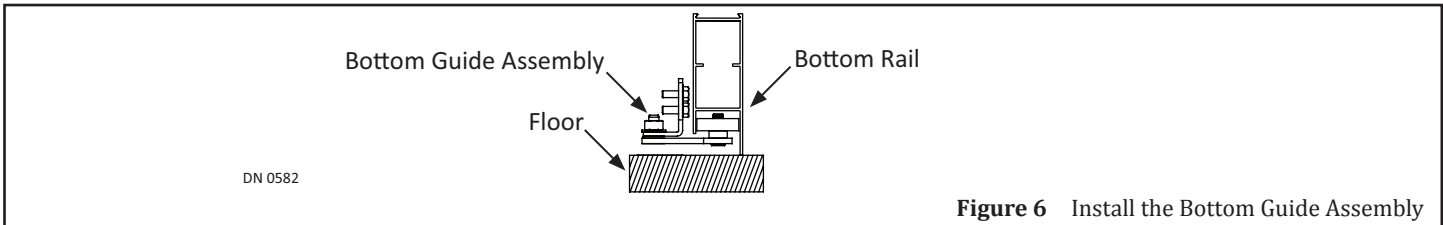
SECTION 6:   Install the Slide Door

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

1. Cover the Sidelite Panel with cardboard on the breakout side.
2. Go to the Carrier located on the Top Rail of Slide Door. Loosen (1) Nut on each Roller with a 15/16" open end Wrench.
3. Position each Roller so they are horizontally aligned to each other.
4. Slightly tilt the Slide door and then lift until the (4) Rollers on the Carrier 'catch' onto the track.
5. Adjust the Trail Door in Section "SECTION 7: Adjustments"; then come back to complete installation.
6. Support the weight of the Slide Door. Breakout the Slide Door to Full Open position.
7. Secure the Bottom Guide Assembly to the Pivot Stile.

Figure 7   Install Carrier onto Track
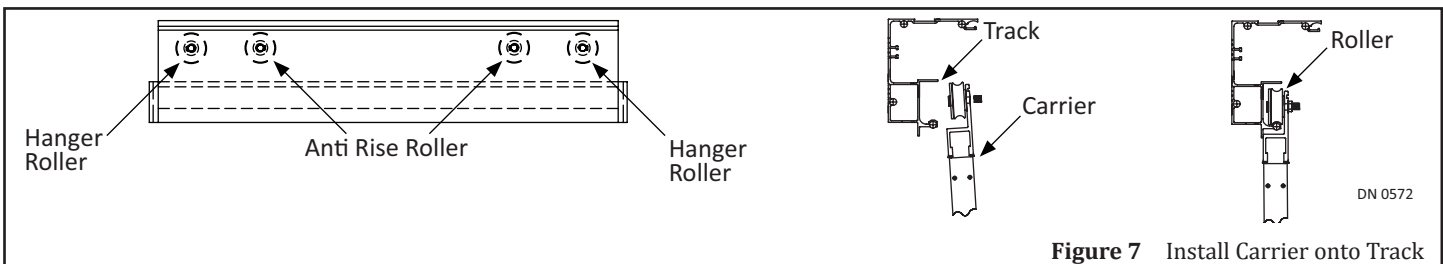
8. Go to the Header. Align (1) Belt Clip according to type of Slide door (SIngle or Bi-Fold) with (2) pre-drilled screw holes located on the Carrier.
   a. Single Slide door has (1) Carrier and (1) Belt Clip.
   b. Bi-Part Slide door has (2) Carriers and (2) Belt Clips.
9. Secure (1) Belt Clip to the Carrier with (2) 1/4-20 X 3/4 Hex Washer Screws.

Figure 8   Secure Belt Clips to Carrier

10. If installed, permanently secure the Floor Track.
11. Connect the Rocker Switch Harness to the U30 Main Harness.
12. Connect the Rocker Switch or Key Switch to the U30 Harness. Secure the Switch Plate.

SECTION 7:   Adjustments

7.1   Adjust Height on Slide Door

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

1. Measure the gap between the door and the floor. The gap must be between 11/16" to 15/16" (7/8" nominal).
2. Loosen each Hanger Roller Nut. It is recommended to adjust the (2) Hanger Rollers located at each end of door first.
3. Turn each axle clockwise to raise or lower the Sliding door. Retighten each Hanger Roller nut. Do not overtighten.
4. Loosen each Anti-Rise Roller nut. Turn each axle clockwise until each Anti-Rise Roller almost makes contact with the top of Roller Track. Gap should be about the same thickness of a credit card. Retighten each Anti-Rise Roller nut. Do not overtighten.

7.2 Adjust Preload on Slide Door

CAUTION   **Glass must be installed first before adjusting Preload on Slide Door.**

CAUTION   **When a Preload Block is shifted, it will be necessary to gently tap on one end of the Interface Leg (located inside the Carrier) until it is properly recentered.**

1. Support the weight of sliding door. Breakout sliding door approximately 75 degrees. Check for door sag.
2. Go to the Preload Block located inside the Top Rail. Loosen (2) Locking Bolts.
3. Go to the back edge of Pivot Stile. Reduce door sag by tightening the 5/16 inch Adjustment Set Screw with a 5/32 inch Allen Wrench.
   a. The door should lift without having to be manually lifted.
   b. Do not allow the Adjusting Set Screw to protrude more than 5/32 inch past the end of stile.
   c. If an optional 1/2 inch Adjustment Set Screw provided by NABCO is deemed necessary, it could mean the Preload is misaligned. Go to Section 7.3 before replacing the 5/32 inch Adjustment screw.
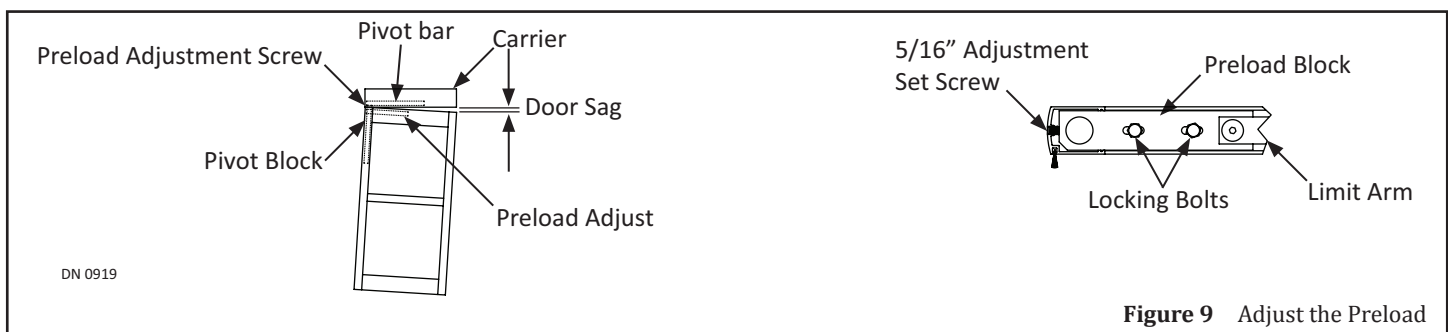
Figure 9   Adjust the Preload

7.3 Correct Preload Misalignment

1. Check to see if misalignment exists on the Strike end of the Door and Carrier.
2. Loosen the Allen head fasteners on the Pivot bar that is located inside the Carrier. Slide the Pivot bar until the door and Carrier are properly aligned.
3. Verify that the Panic Catch inside the Top Rail and the Carrier are still aligned. If not, loosen the 5/16 inch set screw to align the Carrier Panic Catch with the Top Rail Panic Catch.
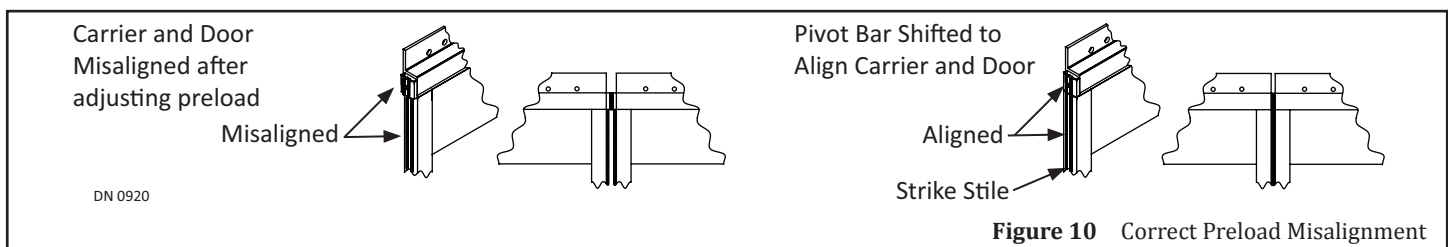
Figure 10   Correct Preload Misalignment

7.4 Adjust the Nose Caster (Optional for Sliding Doors that are 54 inches Wide (or greater) and/or over 200 pounds)

1. Loosen the #8-32 Set Screw.
2. Position the Wheel so it is perpendicular to the Bottom Rail.
3. Retighten the #8-32 Set Screw.
4. Break open the Slide door. Ensure the Slide door does not scrape the floor. If it does lower the Nose Caster further.

SECTION 8:   110 VAC General Wiring

DANGER   **Read and understand the "U30 Controller Setup and Programming Manual" P/N 15-9000; and the "Electrical Installation Manual U-30 Control" P/N 15-10596-30 before attempting to power-up the GT-1175 Slide Door. Failure to do so may result in damage to the Slide door and/or injury to the installer and will nullify all warranties.**

DANGER   **Disconnect 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.**

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

1. Ensure all power is disconnected at the Junction box and the 1175 Slide Door.
2. Determine correct supply voltage is 115 VAC ± 10%.
3. Inspect location and grade of all incoming 120 VAC power wires.
4. Insert all incoming 120VAC power wires into the access hole located on Jamb Tube. It is recommended to house all wires into an Electrical Conduit.

CAUTION   **Keep all incoming 120 VAC wiring separate from low voltage wiring within Header. Do not route 120 VAC wires near the U30 Microprocessor Controller and Motor/Operator.**
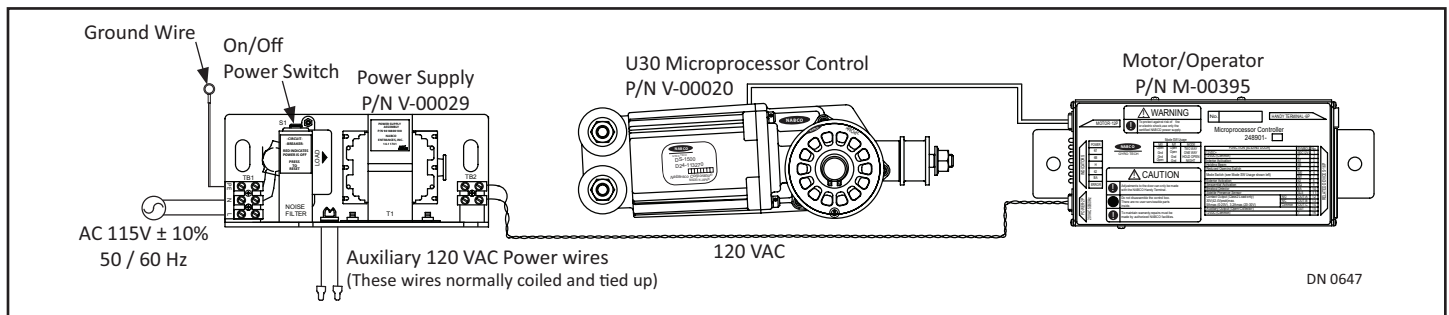
5. Go to the TB1 Port located on the Left side of the Power Supply Module.
6. Insert the Incoming 120 VAC Black (HOT) wire into the Circuit marked "L".
7. Insert the Incoming 120 VAC White (Neutral) wire into the Circuit marked "N".
8. Insert Green (Grounding) wire into the Circuit marked "PE".
9. Ensure the Slide door system is Grounded for safe and consistent operation.

8.1   Determine Correct Handing

1. With power OFF, manually slide the door half way open.
2. Turn power ON. The Slide door should slowly close (per Power On factory settings).

8.2   Correct Wrong Handing

1. With the power ON, obtain the Cable from the Handy Terminal Case.
2. Go to the Handy Terminal Harness that is connected to the U-30 Microprocessor Controller. Remove the protective Cap.
3. Connect the plug end of the Cable (that is protected with a metal sleeve), to the socket of the Handy Terminal Harness.
   a. The plug end of the Cable has multiple prongs that need to line up with the socket. Gently turn the plug end clockwise while trying to insert it until a connection can be made.
4. Connect the other end of the Cable to the Handy Terminal.
5. Press: **ENTRY** until the screen displays: **SPECIAL FUNCTION ADJUSTMENTS** Then select: **Y**
6. Continue pressing: **ENTRY** until the Screen displays: **RECYCLE** Change the setting.
7. Disconnect the Handy Terminal.
   a. Wait at least (10) seconds before disconnecting Handy Terminal to allow the last test to complete and for the message display to **STABILIZE**.
   b. Slide the metal jacket off the Terminal Connector before removing the Handy Terminal cable.
8. Repeat Steps 1 and 2 within Section 8.2 to confirm correct door operation. Slide Door should now slowly close.
9. Plug the Handy Terminal back into the Terminal Connector.

Handy Terminal

U30 Microprocessor Controller

Handy Terminal Harness

Connect Cable to Handy Terminal

Remove Protective Cap from Harness

DN 0435

Cable

SECTION 9: General Wiring

9.1 (2) Acusensors and (1) Holding Beam

Black Wire (Hot)

AC115V ± 10%
50 / 60 Hz

White Wire
(Common)

Grounding Wire
P/N 14-11872

POWER SUPPLY
P/N 14-11741

NOISE FILTER

ON/OFF
Power Switch

Auxiliary 120 VAC
Power Wires
(These wires are normally
coiled and tied up)

MOTOR/OPERATOR
P/N 24-11327

U30 MICROPROCESSOR CONTROL
P/N 24-8901-30

U30 TERMINAL
P/N 24-11877

Power Harness
P/N 14-11874

MAIN HARNESS FOR U30
P/N 24-11877

U30 MICROPROCESSOR CONTROL LABEL			U30 TERMINAL	
12 VDC+	9DC 12V	1	1	BROWN
12VDC- (Common)	7	2	2	RED
Interior Activation	61	3	3	BLACK
Holding Beam	6B	4	4	WHITE
Reduced Opening Switch	H	5	5	GREEN
Mode Switch (See Mode SW Usage Shown Left)	M0	6	6	ORANGE
	M1	7	7	ORG/WHT
Exterior Activation	62	8	8	BLK/RED
Sequential Activation	SQ	9	9	YELLOW
Breakout Detector	BA	10	10	BLUE
Sidelite Presence Sensor	SLS	11	11	GRN/WHT
Contact Output (Class2 Load only)	N/O	Out.A	12	12	
30V (42.4V peak) max.	N/C	Out.B	13	13	
5A max, (0-20V), 3.2A max. (20-30V)	Common	Out.C	14	14	
Auxiliary Output (Open Collector)		Out	15	15	
12VDC Common		7	16	16	RED

Related Devices - 16P

BLK/RED

BROWN &RED
(CIRCUIT 1 & 2)

RED
TERM #4

WHITE
TERM #5

TERM #1

KEY SWITCH
FOR U30
PN 14-11876

ROCKER SWITCH
FOR U30
PN 14-11875

BACK SIDE OF
ROCKER SWITCH SHOWN

BLUE

BLUE — BLUE

BLUE

WHITE — WHITE

WHITE — WHITE

WHITE — WHITE

ON

OFF

NIGHT

TWO WAY

ONE WAY

HOLD OPEN

REDUCED OPEN

RED
BLUE

ORANGE
RED
ORG/WHT

GREEN
RED
ORG/WHT

ORANGE
RED

MAGNETIC POWER
DOWN SWITCH
P/N 22-9222

RED
ORG/WHT
BLUE
GREEN
ORANGE

Optex OS-12C
Controller

OPTEX
HOLDING BEAM
CONTROLLER
PT. NO.
PN 14-9710-03

BLK
RED

BROWN

GRAY RED

YELLOW

ACUSENSOR
EXTENSION
HARNESS
PN 22-9267-00

INTERIOR ACUSENSOR
PT. NO. 14-8902

BROWN RED

GRAY RED

YELLOW

ACUSENSOR
EXTENSION
HARNESS
PN 22-9267-00

EXTERIOR ACUSENSOR
PT. NO. 14-8902

DN 0539

9.2 (2) Optex i-One Sensors, (1) Holding Beam and (1) Breakout Beam

12 VDC+		9DC 12V	1
12VDC- (Common)		7	2
Interior Activation		61	3
Holding Beam		6B	4
Reduced Opening Switch		H	5
Mode Switch (See Mode SW Usage Shown Left)		M0	6
		M1	7
Exterior Activation		62	8
Sequential Activation		SQ	9
Breakout Detector		BA	10
Sidelite Presence Sensor		SLS	11
Contact Output (Class2 Load only)	N/O	Out.A	12
30V (42.4V peak) max.	N/C	Out.B	13
5A max, (0-20V), 3.2A max. (20-30V)	Common	Out.C	14
Auxiliary Output (Open Collector)		Out	15
12VDC Common		7	16

U30 MICROPROCESSOR CONTROL LABEL

DN 0685

9 of 30

9.3 (2) Optex i-One Sensors, (1) Holding Beam and (1) Breakout Beam

9.4 (2) Acusensors, (1) Holding Beam and (1) Breakout Beam

U30 TERMINAL P/N 14-11873

U30 MICROPROCESSOR CONTROLLER P/N 24-8901-30

Power Harness (P/N 14-11874)

MOTOR/OPERATOR P/N 24-11327

Main Harness For U30 P/N 24-11877

Auxiliary 120 VAC Power Wires (These wires are normally coiled and tied up)

POWER SUPPLY P/N 14-11741

ON/OFF Power Switch

Black Wire (Hot)

AC115V ± 10% 50 / 60 Hz

White Wire (Common)

Grounding Wire P/N 14-11872

BROWN &RED (TERM 1 & 2)   TERM #1

OPTEX OS-12C Controller   OPTEX BREAKOUT BEAM CONTROLLER PT. NO. P/N 14-9710-03

BLUE (TERM #3)

BLUE (TERM #4)

BROWN &RED (TERM 1 & 2)   TERM #1

OPTEX OS-12C Controller   OPTEX HOLDING BEAM CONTROLLER PT. NO. P/N 14-9710-03

DN 0541

RED (TERM #4)

WHITE (TERM #5)

RED

RED   RED   GRAY   YELLOW   ACUSENSOR EXTENSION HARNESS P/N 22-9267-00   EXTERIOR ACUSENSOR P/N 14-8902
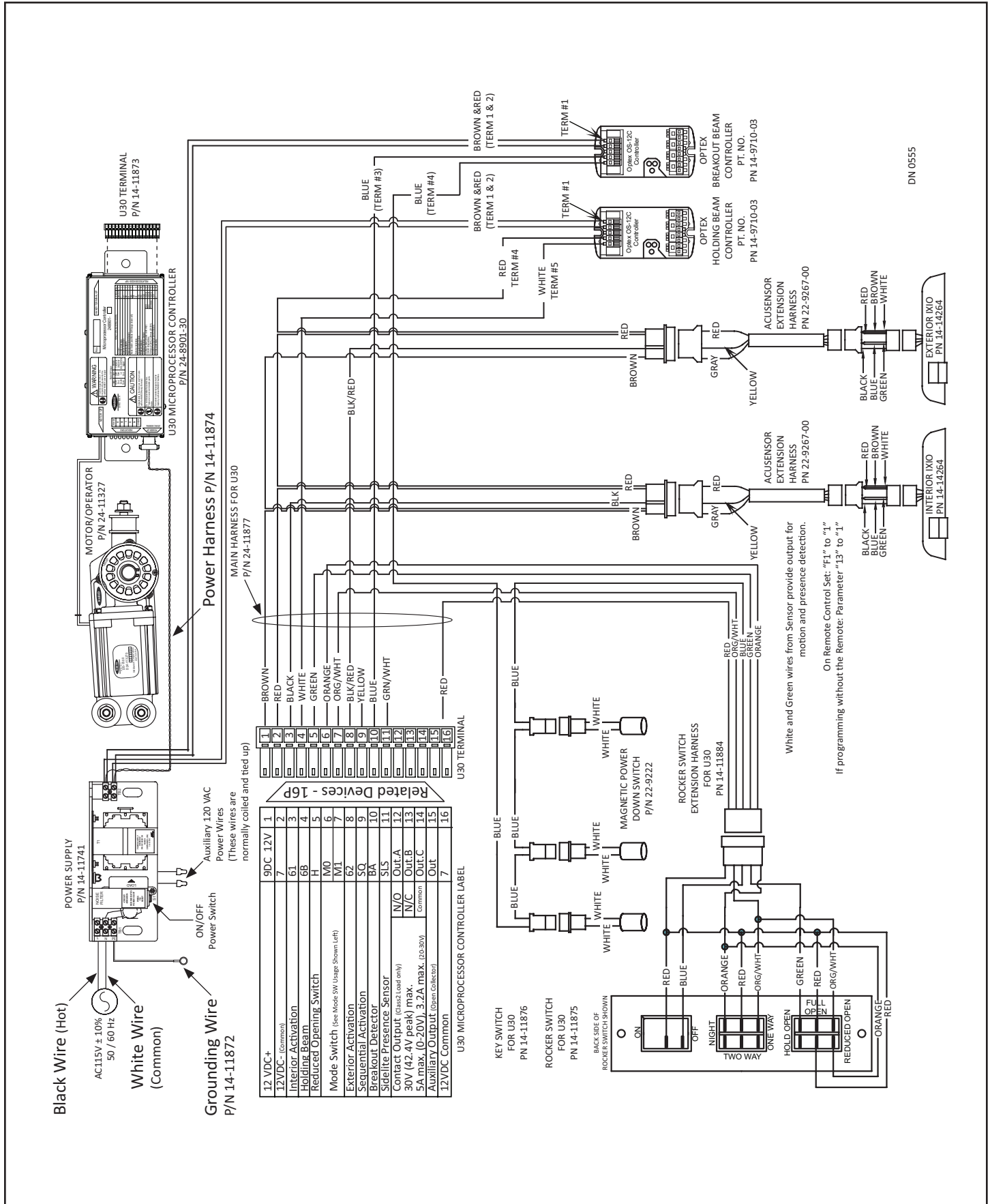
BROWN

RED   RED   GRAY   YELLOW   ACUSENSOR EXTENSION HARNESS P/N 22-9267-00   INTERIOR ACUSENSOR P/N 14-8902

BLK

BROWN

WHITE

BLK/RED

Related Devices - 16P

BROWN	1	1
RED	2	2
BLACK	3	3
WHITE	4	4
GREEN	5	5
ORANGE	6	6
ORG/WHT	7	7
BLK/RED	8	8
YELLOW	9	9
BLUE	10	10
GRN/WHT	11	11
	12	12
	13	13
	14	14
	15	15
	16	16

U30 TERMINAL

RED

BLUE

WHITE   WHITE   MAGNETIC POWER DOWN SWITCH P/N 22-9222

BLUE   BLUE

WHITE   WHITE

ROCKER SWITCH EXTENSION HARNESS FOR U30 P/N 14-11884

RED
ORG/WHT
BLUE
GREEN
ORANGE

U30 MICROPROCESSOR CONTROLLER LABEL

12 VDC+	9DC	12V	1	
12VDC– (Common)	7		2	
Interior Activation	61		3	
Holding Beam	6B		4	
Reduced Opening Switch	H		5	
Mode Switch (See Mode SW Usage Shown Left)	M0		6	
	M1		7	
Exterior Activation	62		8	
Sequential Activation	SQ		9	
Breakout Detector	BA		10	
Sidelite Presence Sensor	SLS		11	
Contact Output (Class2 Load only) 30V (42.4V peak) max.	N/O	Out.A	12	
	N/C	Out.B	13	
5A max. (0-20V), 3.2A max. (20-30V)	Common	Out.C	14	
Auxiliary Output (Open Collector)		Out	15	
12VDC Common		7	16	

KEY SWITCH FOR U30 P/N 14-11876

ROCKER SWITCH FOR U30 P/N 14-11875

BACK SIDE OF ROCKER SWITCH SHOWN

RED   BLUE   ORANGE   RED   ORG/WHT   GREEN   RED   ORG/WHT   ORANGE   RED

ON   OFF

NIGHT   ONE WAY   TWO WAY   HOLD OPEN   FULL OPEN   REDUCED OPEN
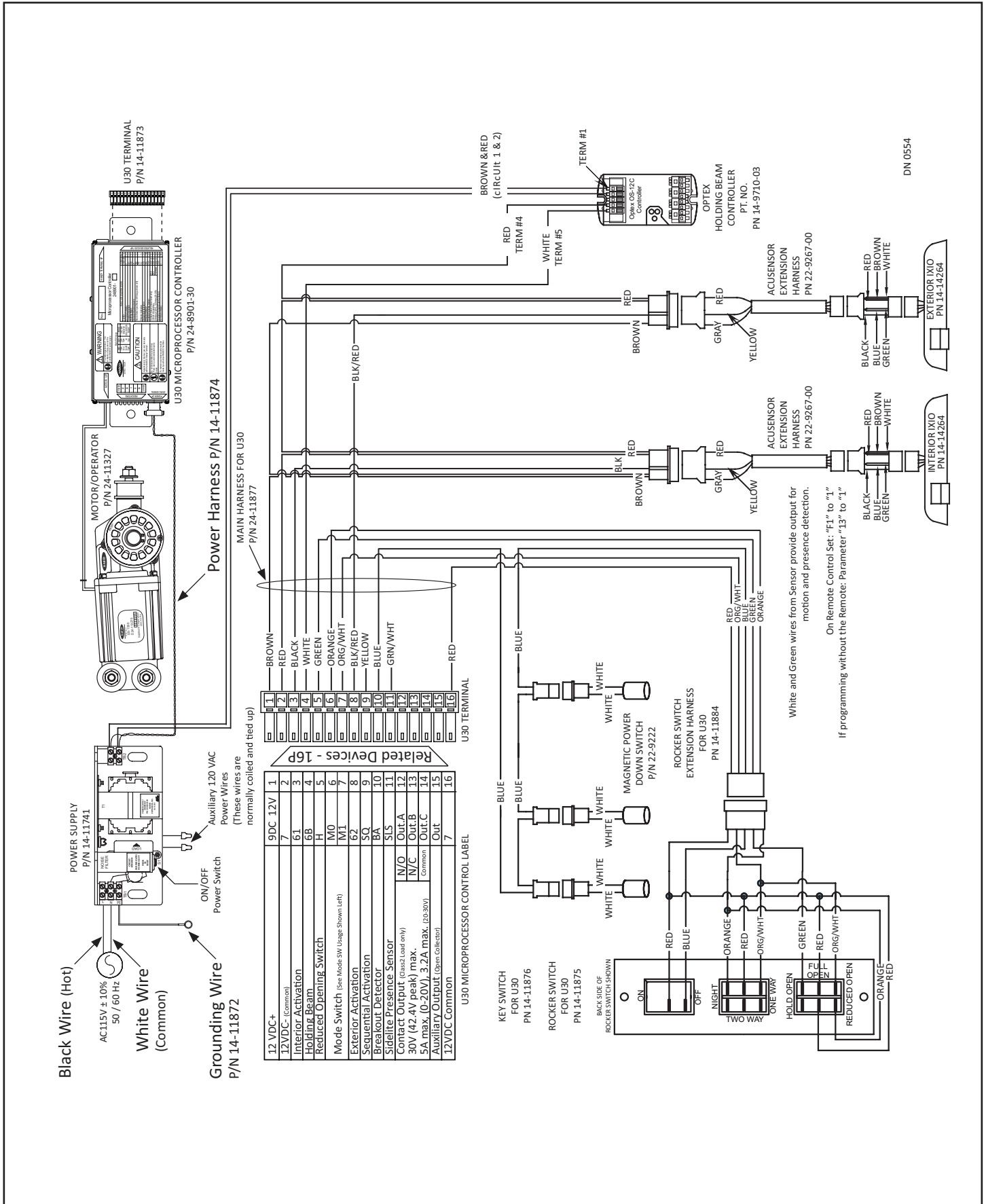
9.5   (2) Wizard G3, (1) Holding Beam and (1) Breakout Beam

9.6 (2) Wizard G3, and (1) Holding Beam

SECTION 10: Program the Handy Terminal

| CAUTION | **Failure to follow disconnecting procedures may result in total loss of communication between the U30 Microprocessor Control and the Handy Terminal.** |

1. The Handy Terminal automatically turns on after it is plugged into the Terminal Connector. The Slide door will slowly close if it is not already closed. The following messages will automatically display after the Slide door reaches the fully closed position (**GYRO TECH HANDY TERMINAL**) and then (**BUZZER Y N**).
   a. If a message on the screen does not advance, go to the U30 Microprocessor Control. Check to see if the **BA LED** is lit. If the **BA LED** is lit; either the Panic Breakout Circuit is open or the Rocker Switch is turned to the OFF position.
   b. Voltage between terminals (10 and 2) on U30 Microprocessor Control should measure 0 volts during normal operation.
2. Press the Shift buttons to select:
   ▶ **Y** to hear audible feedback after each menu button is pressed.
   ▶ **N** to not hear audible feedback after each menu button is pressed.
3. Press: Entry

10.1 Set the Stroke of Slide Door

1. Upon initialization of the Handy Terminal, the following message will be displayed: **SLIDE/SWING/STROKE Y N**
2. Press the Shift buttons to select: **Y**
3. Press: Entry The following message will be displayed: **SWING DOOR Y N**
4. Press the Shift buttons to select: **N**
5. Press: **ENTRY** The following message will be displayed: **FULL OPEN POINT PRESS TEST**
6. Manually slide the door until it reaches the fully open position. Press: **TEST**
   a. The Sliding door will slowly close while measuring the Stroke of the door.
7. After the initial Stroke setup is completed, the following message will be displayed: **STD FUNCTION Y N**
8. Door behavior based on current settings can be viewed at any time by pressing: **TEST**
   a. The Slide door will complete a full cycle and slow down at the Latch Check point and the Back Check point.
9. After the Test is complete the following message will display again: **STD FUNCTION Y N**
   a. This concludes the initial setup to factory settings.
10. If the U30 Microprocessor Control:
    ▶ Does Not need to be programmed with custom settings, disconnect the Handy Terminal and instruct the building owner of the Slide door's operation.
    ▶ Does need to be programmed with custom settings, please refer to P/N 15-9000-30; U30 Microprocessor Manual.

SECTION 11: U30 Microprocessor Settings

Rocker Switch Settings (When wires M0 and M1 are switched to Red 7 the state is indicated by "ON"			
Mode	Wire M0	Wire M1	Wire H	Description
Two Way Mode	OFF	OFF	-	Both Sensors on Terminals 3 and 8 and the Holding Beam* on Terminal 4 will receive signals while the door is closed or cycling.
Hold Open Mode	ON	ON	-	No activation needed. Door is held open.
Reduced-Open Mode	-	-	ON	Door will go to the reduced opening position upon activation.
One-Way Traffic Mode	ON	OFF	-	● Only the Sensor on Terminal 3 will receive signals while the door is closed. ● The Sensor on Terminal 8 and the Holding Beam on Terminal 4 will be ignored while the door is closed. ● During the door cycle both the Sensors and the Holding Beam will receive signals. ● The electric lock will be active to prevent exterior entry.
Night Traffic Mode	OFF	ON	-	● No Sensor on Terminals 3 or 8 or the Holding Beam on Terminal 4 will receive signals while the door is closed. ● Activation is only accomplished by switching M0 to Red (7). ● During the door cycle both the sensors and the Holding Beam will receive signals. The electric lock remains locked except for activations from wall plates or card readers.

Handy Terminal Error Messages			
Error Message	Definition	Problem	Resolution
ROM ERROR	Internal ROM Error: Internal memory error.	Door does not work.	Reset U30 Microprocessor Control by turning 120 VAC off then on again OR connect the Handy Terminal and clear the Error Message.
ERROR RESET AGAIN	Communication Error: Communication between the U30 Microprocessor Control and the Handy Terminal is not taking place.	Control does not retain new settings from the Handy Terminal	Reset U30 Controller by turning 120 VAC OFF then on again. If problem persists the cables, or control and/or Handy Terminal might be defective. Tip: Use Handy Terminal and/or Harness on a different door.
EEPROM ERROR	Internal EEPROM Error: Internal memory error.	Door does not work.	Replace the U30 Microprocessor Control.
ERROR_4	Electric Lock Error: Activation device was signaling the control to open door but the electric lock failed to unlock or bound up ten times.	Door does not work.	Reset U30 Controller by turning 120 VAC OFF then on again OR connect Handy Terminal & clear error message OR Turning ON/OFF switch OFF then ON again OR opening then closing panic breakout circuit.
ERROR_5	Recycle Error: Recycle was detected more than three times at same door position continuously.	Door does not recycle.	Reset the U30 Microprocessor Control by turning 120 VAC OFF then on again OR connect the Handy Terminal and clear the error message OR Turn the 'ON/OFF Switch" OFF then ON again OR open the closing panic breakout circuit.
ERROR_6	Interior Sensor Error: Sensor connected to the Black (61) wire is sending an error message to the U30 Microprocessor Control.	Door does not work but the electric lock works by means of a rocker switch.	Replace sensor (only applies to U-30 Microprocessor Controls with Nabco sensors).
ERROR_7	Exterior Sensor Error: Sensor connected to the Black/Red (62) wire is sending an error message to the U30 Microprocessor Control.	Door does not work but the electric lock works by means of a rocker switch.	Replace sensor (only applies to U-30 Microprocessor Controls with Nabco sensors).

Note: ERROR CODES may have been generated as the result of a hardware problem. If resetting the software as described above does not resolve the problem, cause of the hardware malfunction must be determined and corrected. Please contact NABCO Entrances, Inc. Toll free at 1-877-622-2694, for additional assistance.

| No.	Symbol	Function	Wire Color*	Description
		16 Pin Terminal Block Assignments (All wires are identified by color)		
1	9DC 12V	12 VDC+	Brown	Output Terminal: ● Sensor power source Output Terminal ● Output is 12 VDC with a maximum capacity of 0.35 amps (350 mA).
2	7	Common	Red	Output Terminal: Provides common ground for the 12 VDC power and signal source.
3	61	Interior Activiation	Black	Activation Signal Input: Opens the door based on a signal from the Sensor that is active in one way mode.
4	6B	Holding Beam	White	Holding Beam Input: Opens or re-opens a door when the holding beam signal is activated.
5	H	Reduced Opening Switch	Green	Reduced Opening Input: Enables reduced door opening when switched to Red (7)
6	M0 One Way	Mode Switch	Orange	Input for Switch 1 (SW1): Used to achieve special functions.
7	M1 Night	Mode Switch	* Orange/ White	Input for Switch 2 (SW2): ● Used to achieve special functions. ● All references to Mode Switches are made in connection with ground (Red).
8	62	Exterior Activation	* Black/ Red	Input Terminal: Receives signal from a Sensor that is switched out in ONE WAY mode.
9	SQ	Sequential Activation	Yellow	Input Terminal: Allows a sequence of signals to open and close the door.
10	BA	Breakout Detector	Blue	Input Terminal: ● Connects directly to Red (7) during normal operation. ● When the Rocker Switch is turned OFF or if the door is panicked open, it is disconnected from Red (7) causing Slide door to stop operating.
11	SLS	Misellaneous Input	* Green/ White	Input Terminal: Receives signal from Sidelite Sensor or additional devices.
12	OUT A	Auxiliary Output	Gray	Terminal is connected to the Normally Open contact on an Internal Relay: ● Also Referred to as the "Auxiliary Relay Output". ● Used as a switch to sequence Electric Strikes, control other doors in an Airlock situation, or signal a Remote Computer on the door operation.
13	OUT B	Auxiliary Output	Gray	Terminal connected to the Normally Close contact on an Internal Relay.
14	OUT C	Auxiliary Output	Violet	Terminal is the common for output wire OUT A or OUT B.
15	OUT	Auxiliary Output 2	*Brown/ Yellow	Terminal connected to an Internal Transistor with open collector in the U30 Microprocessor Control.
16	7	Common	Red	Terminal connected to an Internal Transistor with open collector in the U30 Microprocessor Control.

* Color 1/Color 2 denotes a base wiring Color 1 with a Stripe Color 2 (e.g. Black/Red = Black wire with a Red Stripe)

Trouble detected by U30 Microprocessor Control		
Problem		**Solution**
Trouble detected by U30 Microprocessor Control	Cause	For problems indicated within 4, the U30 Microprocessor Control will stop the Slide door and memorize the nature of the trouble.
	Resolution	Connect the Handy Terminal for error messages, clear and repair.
	Cause	The U30 Microprocessor Control does not operate.
	Resolution	Check wiring connections and activation devices. LED indicators help to locate cause.
		Check to ensure there is 120 VAC to the power supply and 20 VAC to the U30 Microprocessor Control.
		Change the U30 Microprocessor Control or motor.
Handy Terminal buttons or Message Display do not work	Cause	Handy Terminal is too cold.
	Resolution	Bring the Handy Terminal up to room temperature.
	Cause	Hand Terminal or cable may be defective.
	Resolution	Try using it on another door to determine the defective component.
	Cause	Cable from the U30 Microprocessor Control to terminal port is defective.
	Resolution	Replace cable.
Door recycles on its own	Cause	● Obstructions during the closing cycle will cause the Slide door to recycle open. Operation should continue as soon as recycling is done.
		● Obstructions during the opening cycle will cause the door to stop. After losing the activating signal and time delay, the door will close. If the activation signal continues, the door will remain open in stopped position.
	Resolution	Check for any obstructions that are preventing the door from closing such as tight weather stripping, binding rollers or guides, debris in the floor track etc. The U30 Microprocessor Control indicates the count for each recycle on the Handy Terminal.
	Cause	Header mounted sensors that are incorrectly adjusted can detect a closing door panel or other moving objects and reopen the door.
	Resolution	Re-adjust motion sensors.
	Cause	Crosstalk between adjacent sensors will cause sensor ghosting and consequent Slide door recycling.
	Resolution	Set different frequency modes for each sensor.
There was a Power Failure	Affect	● Power failure lasting less than one second will not affect operation.
		● Power failure of one second or more will cause the U30 Microprocessor Control to brake the door fully.
	Outcome	Once power is restored, the U30 Microprocessor Control will operate again. Settings to the Slide door operation will remain in effect.
Slide door does not open	Resolution	● Check the sensor wiring and activation sensors. LED indicators (61, 6B, 62) will light when activation occurs. Try shorting out terminals 2 (Red) & 3 (Black) to simulate an activation signal.
		● Connect the Handy Terminal and push "TEST" to simulate an activation signal.
		● Measure voltage between terminals 2 (Red) and 10 (Blue). For normal operation, the Blue panic breakout wire follows a series circuit through the ON/OFF switch, through the panic breakout switches and to Red (common). With rocker switch in the ON position and sidelites closed, voltage should equal 0 VDC. If voltage is 12 VDC, the panic breakout circuit is open. Check the Blue wire and determine where the circuit is open. LED indicator (BA) may help.
Abnormal door operation	Resolution	● Check or reset the stroke and check the R-hand/L-hand setting.
		● Check Handy Terminal settings.

Trouble detected by U30 Microprocessor Control		
Problem		**Solution**
Message Display does not move from "GYRO TECH HANDY TERMINAL"	Resolution	● Ensure rocker switch is set to ON.
		● Measure voltage between terminals 2 (Red) and 10 (Blue). For normal operation, the Blue panic breakout wire follows a series circuit through the ON/OFF switch, through the panic breakout switches and to Red (common). With rocker switch in the ON position and sidelites closed, voltage should equal 0 VDC. If voltage is 12 VDC, the panic breakout circuit is open. Check the Blue wire and determine where the circuit is open. LED indicator (BA) may help.
		● Install jumpers in all exposed blue wire connectors.

Standard Function Adjustments	
Adjustment	**Description**
Closing Speed	Message will read: **CLOSE SPEED 2** ● Eight options are available from 0 to 7. ● Speeds range 2 inches per second (.06 meters per second) to 24 inches per second (.60 meters per second). Seven is the fastest, 0 is the slowest. ● For details on incremental Close speed adjustments, please refer to P/N 15-9000-30; U30 Microprocessor Control Manual. ● The U30 Microprocessor Control Rev-D requires the Closing Speed and Recycle Sensitivity to be adjusted based on door weight. Please see example of recommended settings below: <table><tr><th>Maximum Door Weight</th><th>Closing Speed</th><th>Recycle Sensitivity</th></tr><tr><td>160 pounds</td><td>2 (Factory Default)</td><td>1 (Factory Default)</td></tr><tr><td>300 pounds</td><td>2</td><td>2</td></tr><tr><td>600 pounds</td><td>1</td><td>3</td></tr></table>
Opening Speed	Message will read: **OPEN SPEED 3** ● Eight options are available from 0 to 7. ● Speeds range 2 inches per second (.06 meters per second) to 31 inches per second (.80 meters per second). Seven is the fastest, 0 is the slowest. ● For details on incremental Open speed adjustments, please refer to please refer to P/N 15-9000-30; U30 Microprocessor Control Manual.
Time Delay	Message will read: **TIME DELAY 2** ● Eight options are available with time delays of 0 to 7 seconds. ● Determines number of seconds the Slide door will stay open after both the Activating and Safety signals are cleared. ● For details on longer Time Delays, please refer to P/N 15-9000-30; U30 Microprocessor Control Manual.
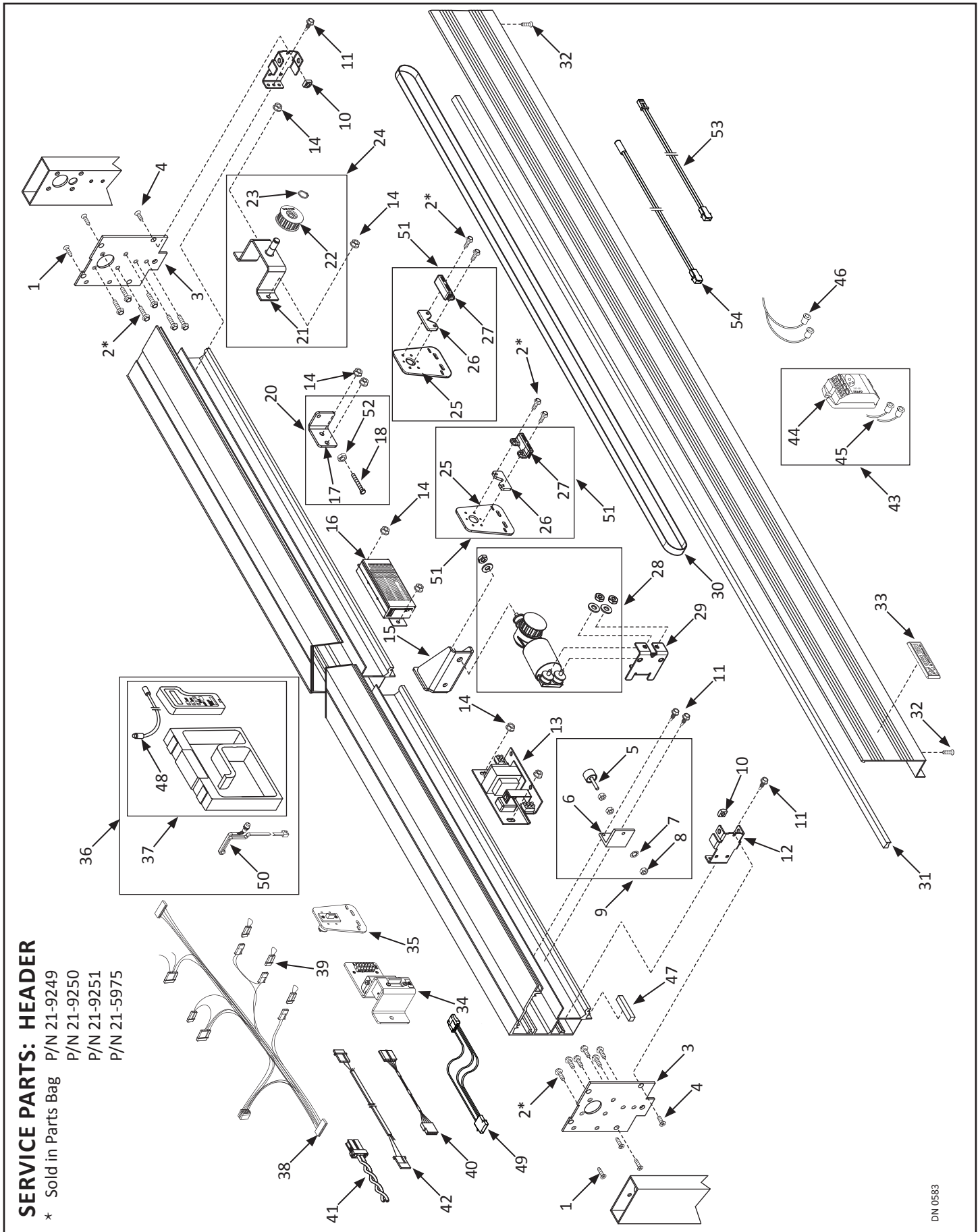
SERVICE PARTS: HEADER

* Sold in Parts Bag

P/N 21-9249
P/N 21-9250
P/N 21-9251
P/N 21-5975

DN 0583

		Header	
Item	**Part**	**Finish/Sizes/Notes**	**Description**
1	24-4941-02		FHMS, 1/4-20 X 1", PHIL, TRILOBE, ZN
2	24-0014-02		HHCS, 1/4-20 X 3/4", ZN
3	24-0019-05		1/4" EXTERNAL STAR WASHER
4	24-13282-11	Clear	ENDCAP, HEADER, 1175, RIGHT HAND, 204
	24-13282-12	Dark Bronze	ENDCAP, HEADER, 1175, RIGHT HAND, 313
	24-13282-21	Clear	ENDCAP, HEADER, 1175, LEFT HAND, 204
	24-13282-22	Dark Bronze	ENDCAP, HEADER, 1175, LEFT HAND, 313
5	24-0011-13	Zinc	FHMS, 1/4-20 X 3/4", PHIL, ZN
	24-0011-96		FHMS,1/4-20 X 3/4,PHIL
6	12-8233		DOOR STOP ASSY JAMB MOUNTD-SPECIAL
7	14-9078		BRACKET, DOOR STOP
8	24-0019-15		WASHER,INT.1/4
9	24-0021-14		HEX NUT, 1/4-20, ZN
10	14-9079		DOOR STOP ASSY, TRACK MOUNTED - 1175
11	24-0021-27		SQUARE NUT, 1/4-20
12	24-0014-30		HHCS,#14 X 3/4 SELF DR TP
13	24-9022		BRACKET, END CAP - LOWER
14	14-11741		POWER SUPPLY, DS-150NA/U30
15	24-0021-21		NUT, WHIZLOCK, 3/8-16, ZN
16	24-14454		BRACKET, FRONT, DS150
17	24-8901-30		CONTROLLER MICROPROCESSOR - U30
18	24-9027		IDLER TENSIONER BRKT (Assy is P/N 215990
19	24-0014-28		HHCS,3/8-16 X 2 3/4"
20	24-0021-15		HEX JAM NUT 3/8"-16
21	21-5990		IDLER BELT TENSIONER ASSY
22	22-9026		WELDMENT, IDLER - 1175
23	11-11701		IDLER PULLEY ASSEMBLY
24	24-0431		RING, RETAINING
25	22-9210		IDLER ASSY
26	24-0019-05		1/4" EXTERNAL STAR WASHER
27	24-0014-01		HHCS, 1/4-20 X 1", ZN
28	14-11871		BRACKET, BELT,1175
29	14-11870		SPACER, BELT CLIP, 1175
30	24-11493		CLIP, BELT
31	24-11327		OPERATOR - DS-150 NA
32	24-11329		REAR BRACKET, MOTOR SUPPORT - 1175 DS150
33	14-0795		TIMING BELT 1/2" PITCH X 3/4" WIDE
34	14-2279-05		PILE WEATHERING, BLK, .45 TALL, W/ ADHES
35	24-4941-14		FHMS,PHIL,8-32 X 5/8" TYPE F
	24-4941-20		FHMS,PHIL,8-32X5/8" TYPE F BK ZK
36	14-9199		NAMEPLATE, ADHESIVE BACKED

Header			
Item	Part	Finish/Sizes/Notes	Description
37	22-10522-03	Fail Safe	VON DUPRIN FAIL SEC ELE STRIKE SUB ASSY
	22-10522-04	Fail Secure	VON DUPRIN FAIL SAFE ELE STRIKE SUB ASSY
38	14-12104-10		BELT BRACKET, ELECTRIC LOCK ASSEMBLY
	14-12104-20		BELT BRACKET, ELECTRIC LOCK ASSEMBLY
39	14-14804		Error no match found
40	14-8903-R		REBUILT HANDY TERMINAL ASSY
41	12-13881		ASSEMBLY, HARNESS, HANDY TERMINAL
42	14-13769		TAPE, DBL. SIDE, FOAM 1" X 2" .045THK
43	14-9038		BRACKET, CONNECTOR - HANDY TERMINAL
44	24-9442		TIE MOUNT ADHESIVE BACKED
45	14-1473-10		CABLE TIE, 4"
46	14-11837	78.75 inches	HARNESS, HANDY TERMINAL U-30 78.75"L
47	24-11877		MAIN HARNESS, U30 CONTROL
48	12-10324		BREAKOUT JUMPER
49	14-11884-10	36 inches	ROCKER SWITCH EXTENSION HARNESS 36"
	14-11884-20	72 inches	ROCKER SWITCH EXTENSION HARNESS 72"
	14-11884-30	180 inches	ROCKER SWITCH EXTENSION HARNESS 180"
50	14-11874		POWER HARNESS DS150
51	22-9220-01	90 inches	BREAK OUT SWITCH HARNESS EXTENSION 90IN
	22-9220-02	35 inches	BREAK OUT SWITCH HARNESS EXTENSION 35IN
52	14-9710-01	Control Box and Cable	(1-SET) OPTEX BEAM & CNTRL
	14-9710-03	Control Box	OPTEX CONTROL BOX ONLY OS-12C
53	14-8161-01		TAPE, .25 X .50 FOAM
54	14-8903-99		CABLE, HANDY TERMINAL

www.NabcoEntrances.com

Rev 8-10-16

SERVICE PARTS: WALL TRACK
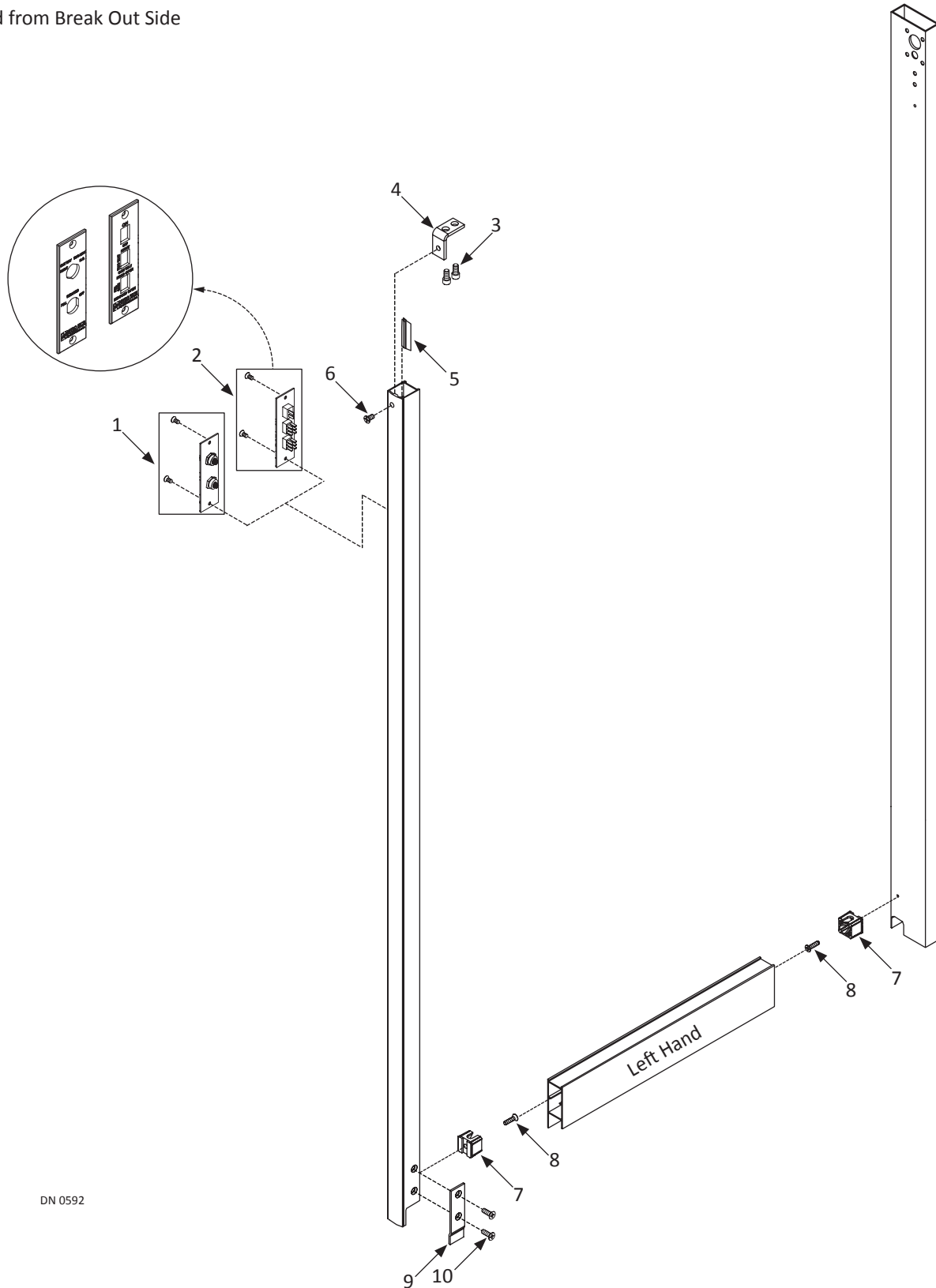
Viewed from Break Out Side

Right Hand
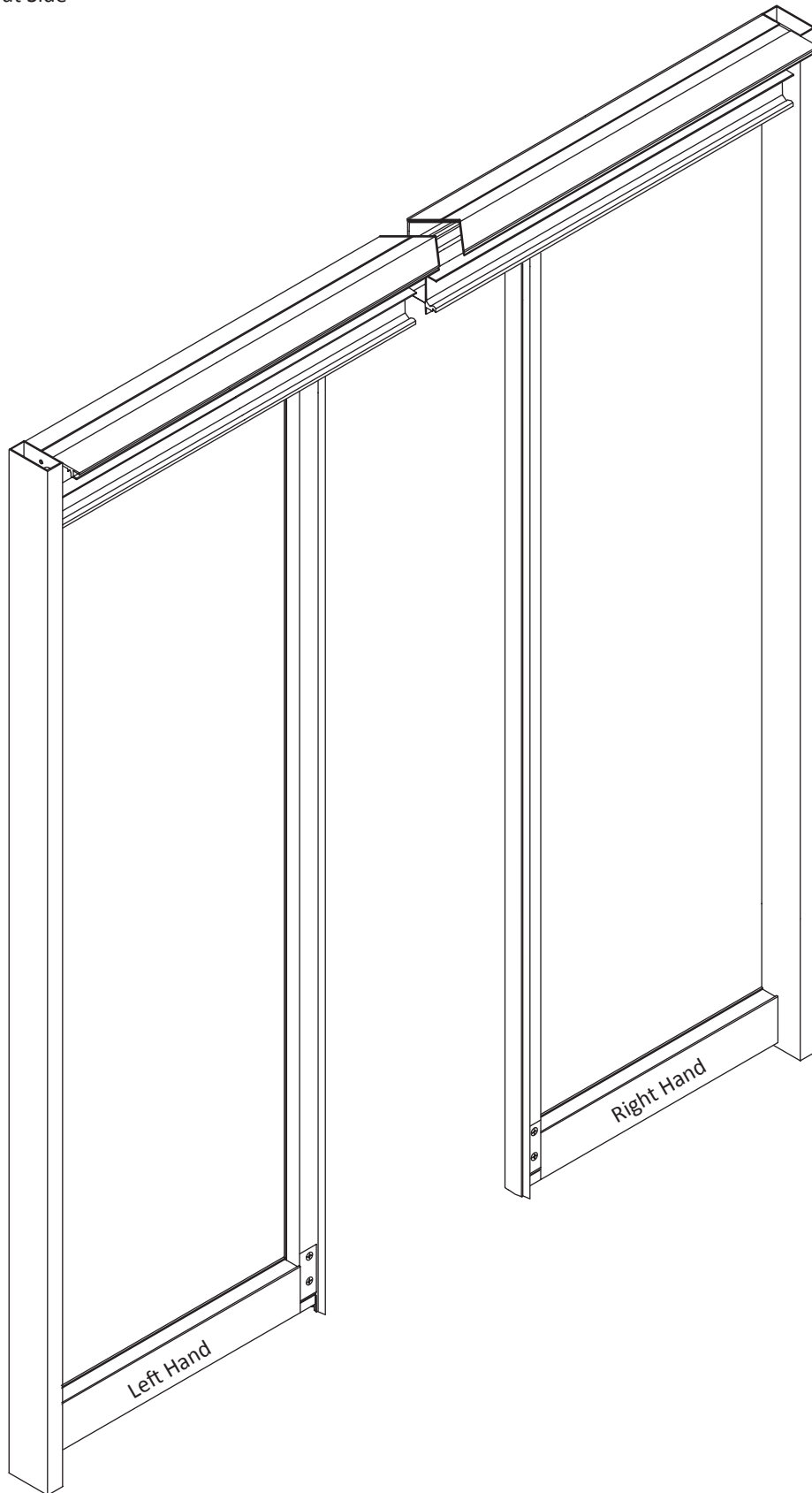
Left Hand

DN 0591

SERVICE PARTS: LEFT HAND
WALL TRACK FRAME

Viewed from Break Out Side

DN 0592

Left Hand

SERVICE PARTS: RIGHT HAND WALL TRACK FRAME
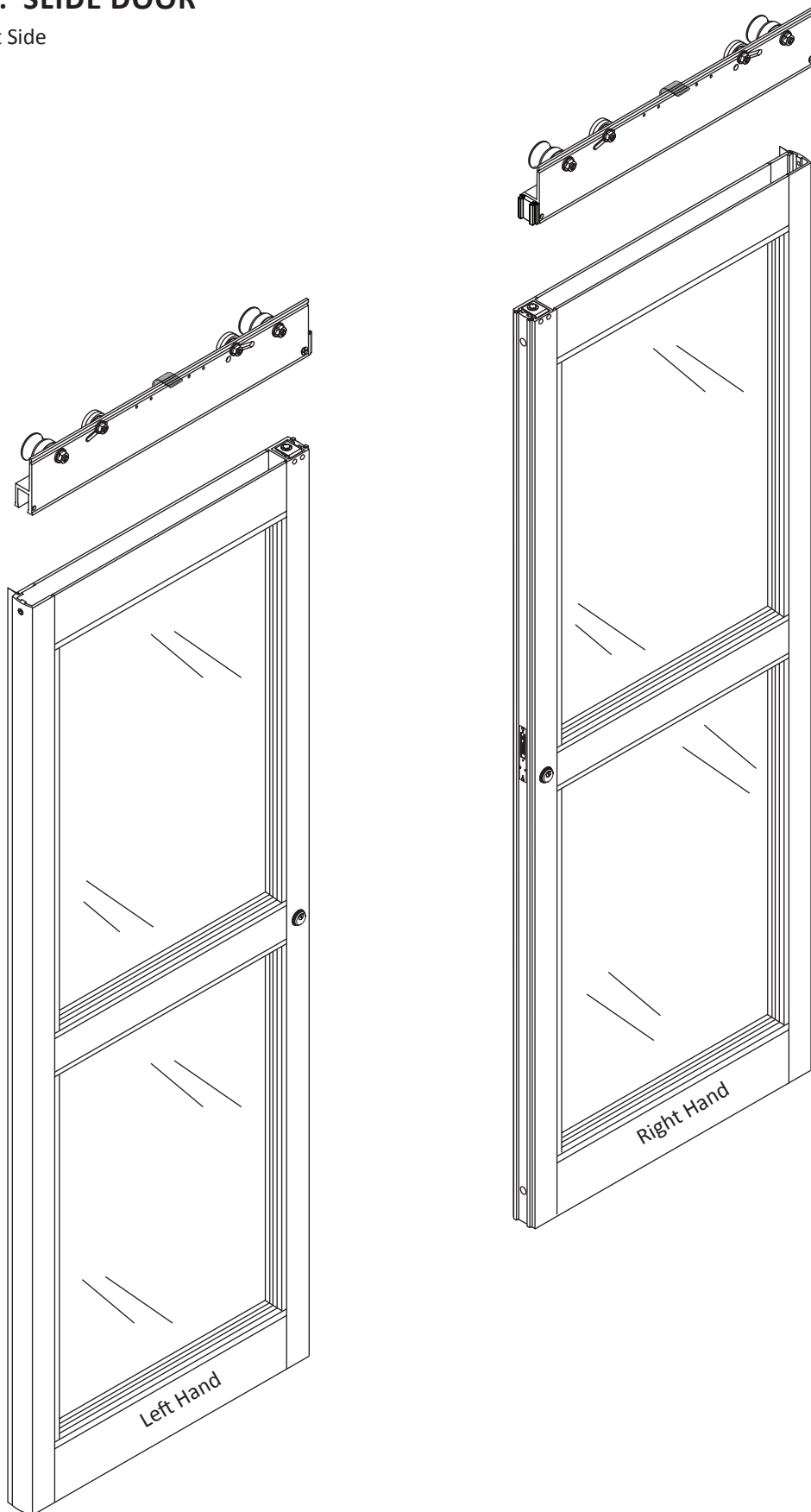
Viewed from Break Out Side

Right Hand
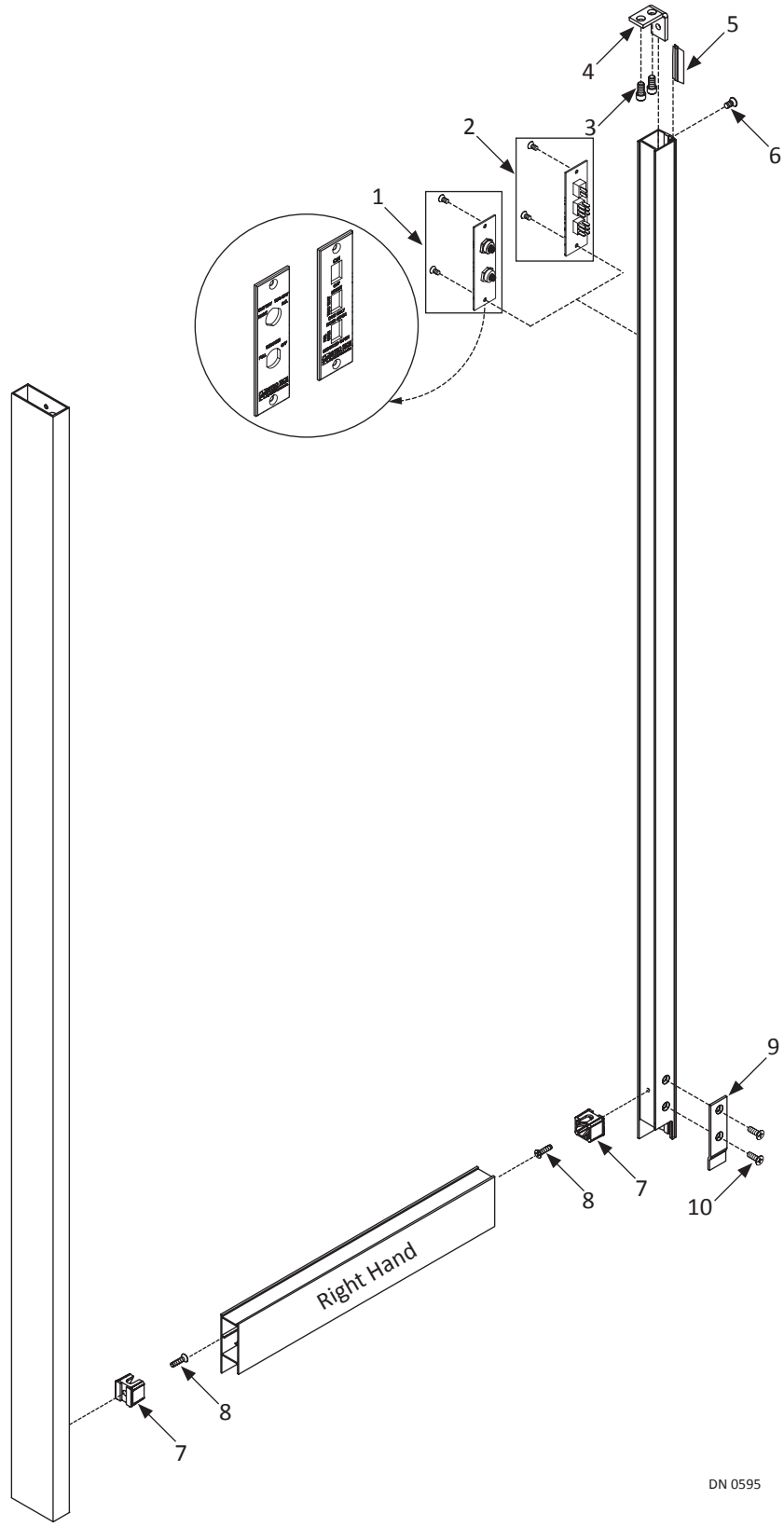
DN 0595

Wall Track			
Item	Part	Finish/Sizes/Notes	Description
1	14-11876-02		DUAL KEY SW. GYROTECH LOGO, 5.5L.
	14-11876-03		DUAL KEY SW. PORTA SERVICE LOGO, 5.5L.
2	14-11875		SWITCH - ROCKER - U30
	14-11875-03		SWITCH - ROCKER - U30, NABCO
	14-11875-04		SWITCH - ROCKER - U30, PORTA SERVICE
3	24-0010-05		SHCS, 1/4-20 X 1/2"
4	14-11420		BRACKET, MOUNTING
5	14-5592-01	Gray	WEATHER STRIP - 9/16 IN VINYL FIN, GRAY
	14-5592-02	Black	WEATHER STRIP - 9/16 IN VINYL FIN, BLACK
6	24-0011-12	Zinc	FHMS, 1/4-20 X 1/2", PHIL, ZN
	24-0011-76	Black Oxide	FHMS,1/4-20 X 1/2", PHIL, BLK OX
7	24-9502		CLIP, MUNTIN BAR - RAIL .261 HOLE
8	24-4941-02		FHMS, 1/4-20 X 1", PHIL, TRILOBE, ZN
9	14-9047	Zinc	PLATE, COVER, BOTTOM GUIDE, FS
10	24-0011-13	Zinc	FHMS, 1/4-20 X 3/4", PHIL, ZN

SERVICE PARTS: SLIDE DOOR

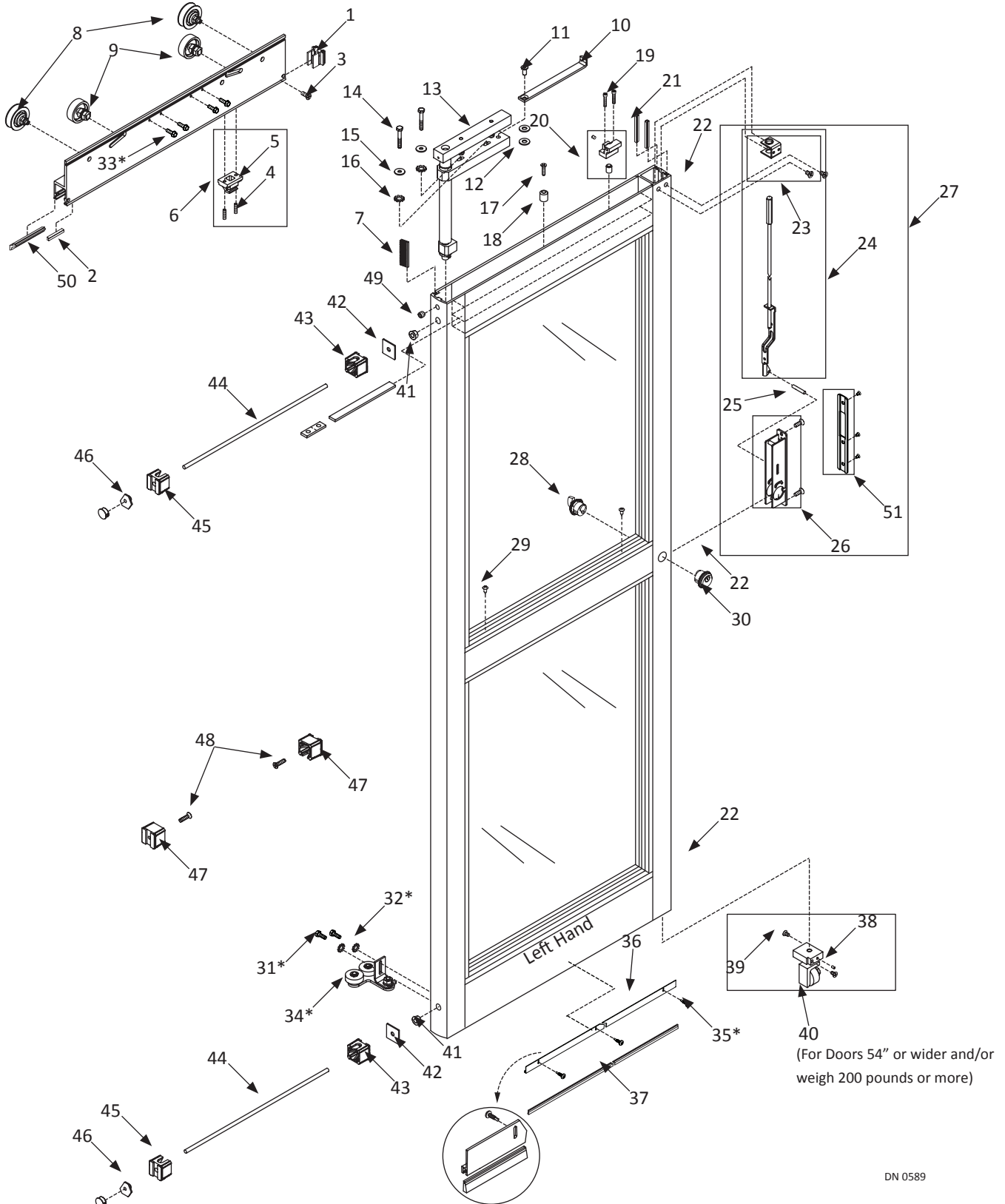Viewed from Break Out Side

Right Hand

DN 0584

Left Hand

SERVICE PARTS: LEFT HAND SLIDE DOOR

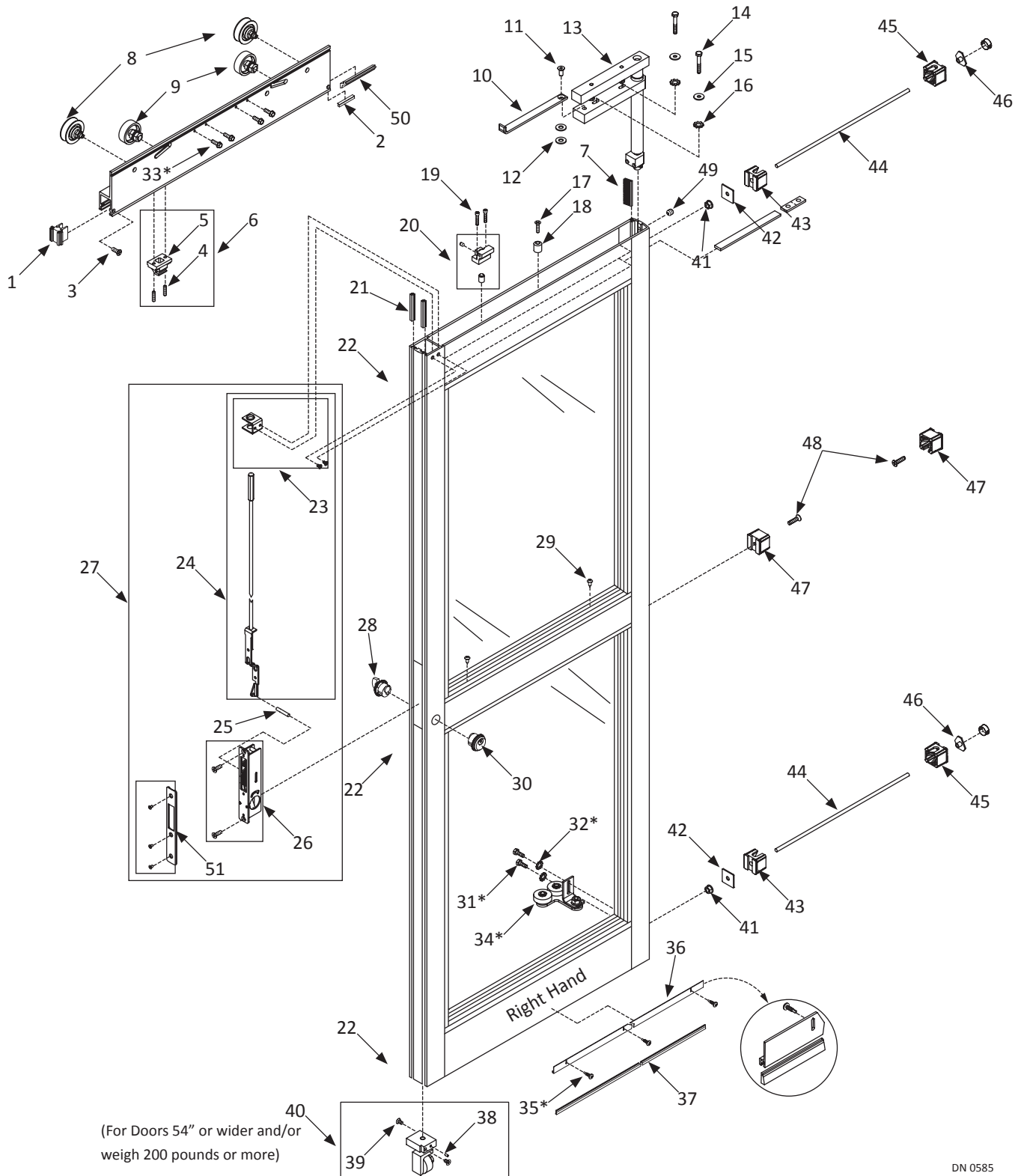Viewed from Break Out Side

*   Sold in Parts Bag; P/N 21-9249

DN 0589

SERVICE PARTS: RIGHT HAND SLIDE DOOR

Viewed from Break Out Side

*   Sold in Parts Bag; P/N 21-9250

(For Doors 54" or wider and/or weigh 200 pounds or more)

Right Hand

DN 0585

	Slide Door		
Item	**Part**	**Finish/Sizes/Notes**	**Description**
1	12-8463-01	Clear	CARRIER END CAP ASSY
	12-8463-02	Dark Bronze	CARRIER END CAP ASSY
2	14-2279-05		PILE WEATHERING, BLK, .45 TALL, W/ ADHES
3	24-0011-105		FHMS, 10-32 X 1/2", PHIL, UND, ZN
4	24-0016-30		SHSS, 5/16-18 X 1.25", CUP
5	24-9483		PANIC CATCH, UPPER PART
6	12-14478		PANIC CATCH UPPER PART,ASSY,
7	14-4899-60		BRUSH, WTHRING-.004, BRISTENYLON A.56, B
8	11-10733		HANGER ROLLER W/URETHANE ASSY, GT1175
9	11-9037		ANTI-RISE ROLLER ASSY, GT1175
10	21-8396		LIMIT ARM, STD STILES
11	24-0011-77		FHCS, 7/16-14 X 1", ZN
12	24-0017-02		WASHER, 7/16 ID X 1 OD X .083 THK
13	24-12002-10		CARRIER PVT ASSY NARROW STILE-UL PART
	24-12002-20		CARRIER PVT ASSY MED STILE-UL PART
	24-12002-30		CARRIER.PVT ASY - NRW STL-PNL <22.75-UL
	24-12002-40		CARRIER.PVT ASY - MD STL- PNL < 22.75"UL
14	24-0014-12		HHCS,1/4-20 X 1 3/4"
15	2400017-04		Error no match found
16	24-0019-05		1/4" EXTERNAL STAR WASHER
17	24-4941-02		FHMS, 1/4-20 X 1", PHIL, TRILOBE, ZN
18	14-8447		LIMIT ARM SUPPORT
19	24-0010-16		SHCS, 1/4-20 X 1 1/4"
20	21-3468-99		PANIC CATCH RELEASE ASSY, MODEL 1100
21	14-2279-05		PILE WEATHERING, BLK, .45 TALL, W/ ADHES
22	14-9511-04		PLUG, HOLE, .813 DIAMETER, BLK
23	14-13358		LOCK GUIDE (PART OF ASSY 22-4412)
24	22-4412		HEADER LOCK ROD ASSY LESS SCREW PACK
25	24-0020-17		PIN, ROLL 5/32 DIA X 7/8 LONG
26	24-0564		HOOKBOLT, DEADLOCK CR LAURENCE
27	12-8366		LOCK AND LOCK ROD ASSY
28	22-0090-01		CYLINDER, THUMB TURN SILVER
	22-0090-02		CYLINDER, THUMB TURN BRONZE
29	24-0094-01		PHSMS, 10 X 1/2", PHIL, TYPE A
30	22-4495-01	Silver	KEYED ALIKE LOCK CYLINDERS SILVER
	22-4495-02	Bronze	KEYED ALIKE LOCK CYLINDERS BRONZE
31	24-0014-02		HHCS, 1/4-20 X 3/4", ZN
32	24-0019-05		1/4" EXTERNAL STAR WASHER
33	24-0014-15		HHCS,1/4-20 X 3/4
34	21-9046-10	RH	BOTTOM GUIDE DBL RLR ASSY - RH
	21-9046-20	LH	BOTTOM GUIDE DBL RLR ASSY - LH

		Slide Door	
Item	Part	Finish/Sizes/Notes	Description
35	24-0013-03	Smoke Seal Only/Zinc	PHSMS, 6 X 1/2", PHIL, TEKS, ZN
	24-0013-04	Smoke Seal Only/Black Zinc	PHSMS, 6 X 1/2", PHIL, TEKS, BLK ZN
36	24-9125-01	Clear	WEATHERING EXT, 204
	24-9125-02	Dark Bronze	WEATHERING EXT, 313
37	14-4899-15		BRUSH, WTHRNG-.007, BRISTLE NYLON .980
	14-4899-90		BRUSH, WTHRING-.007, BRISTENYLON A68, B
38	24-0016-05		SHSS, 8-32 X 5/16, CUP PT
39	24-0011-70	Zinc	FHMS, 1/4-20 X 7/16", PHIL, UND, ZN
	24-0011-73	Black Oxide	FHMS,1/4-20 X 7/16", PHIL, UND, BLK OX
40	14-5543-11	Clear	NOSE CASTER ASSY NARROW STILE
	14-5543-12	Dark Bronze	NOSE CASTER ASSY
	14-5543-21	Clear	NOSE CASTER ASSY MED. STILE
	14-5543-22	Dark Bronze	NOSE CASTER ASSY
41	24-0021-21	Zinc	NUT, WHIZLOCK, 3/8-16, ZN
42	14-9225		BACKING PLATE, TIE ROD - DOOR ASSEMBLY
43	24-9504		CLIP, MUNTIN BAR - RAIL .386 HOLE
44	14-3624		THREADED ROD, 3/8"-16 - ZINC PLATED
45	24-9503		CLIP, MUNTIN BAR - RAIL .500 HOLE
46	14-9279		OFFSET TEE NUT, 3/8"-16
47	24-9502		CLIP, MUNTIN BAR - RAIL .261 HOLE
48	24-4941-02		FHMS, 1/4-20 X 1", PHIL, TRILOBE, ZN
49	24-0016-51	Black Oxide	SHSS, 5/16-24 X 5/16" CUP PT, BLK OX
50	24-9094-01	Clear	INTERFACE LEG - 204
	24-9094-02	Dark Bronze	0
51	24-0565-11	Clear	LOCK, COVER W/LATCH CUTOUT 204
	24-0565-12	Dark Bronze	LOCK, COVER W/LATCH CUTOUT 313