GT1175 Slide Door Opus Control
Wiring and Programming Manual

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WARNING

- **Turn OFF all power to the Automatic Door if a Safety System is not working.**
- **Instruct the Owner to keep all power turned OFF until corrective action can be achieved by a NABCO trained technician. Failure to follow these practices may result in serious consequences.**
- **NEVER leave a Door operating without all Safety detection systems operational.**

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CHAPTER 1: SAFETY

SECTION 1.1: 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.

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

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

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

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

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

Note: Indicates important information that provides further instruction.

SECTION 1.2: 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 finger or uninsulated tools inside the electrical controller. Touching wires or other parts inside the enclosure may cause electrical shock, serious injury or death.**

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

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

CAUTION **All electrical troubleshooting or service must be performed by trained, qualified electrical technicians and comply with all applicable governing agency codes.**

CAUTION **Do Not touch other parts of the Opus Control board with a screwdriver or anything else metal. Damage to electrical circuitry may occur.**

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.

CHAPTER 2: SCOPE

SECTION 2.1: To the Installer

The purpose of this manual is to familiarize the installer 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 156.10 (Used to cover Full Energy doors) and ANSI Standard 156.19 (Used to cover Low Energy doors) apply. Other local standards or codes may apply. Use them in addition to the ANSI standards.

If after troubleshooting a problem, a satisfactory solution cannot be achieved, please call Nabco Entrances at 1-877-622-2694 between 8 am – 4:30 pm Central time for additional assistance. This manual offers step by step instructions. Do Not take shortcuts.

SECTION 2.2: Objective

The Opus Control is designed to be installed within new Swing, Sliding, and Folding Door Units, plus:

- ▶ Existing swing, sliding, and folding doors using Analog, Magnum, or U01-U19 controls (works with encoders or microswitches).
- ▶ Existing sliding doors using U01-U19 controls. Contact Customer Service at 1-888-679-3319 to purchase Retrofit kits.

SECTION 2.3: Request a User Name/Password to gain access into the "myNABCO" portal

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

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

SECTION 2.4: QR Code Links

Android Phone Instruction to Scan QR Code		I-Phone Instruction to Scan QR Code	
Downloading a QR Scanner by an Android Phone may vary. 1. Google to download QR Scanner. Install. 2. Place phone in front of QR Code. Scan.		1. Click on Camera icon. 2. Place phone in front of QR Code. Scan.	
Associated Videos	**QR Code**	**Associated Videos**	**QR Code**
Opus - Navigating Top Level Screens		Opus - Wiring and Configuring for Electric Locks	
Opus - Using the Rotary Dial		Opus - Connecting Mode Switches	

CHAPTER 3: GETTING STARTED

SECTION 3.1: Features

Specification	Description	
Power Close	Built-in	
Back Check Angle Adjustment	▶ 5 to 35 degrees from Full Open position	▶ Used with Encoder Motor only.
Latch Check Angle Adjustment	▶ 10 to 40 degrees from Full Closed position	▶ Used with Encoder Motor only.
Built In Sequencer	Can activate Electric Locks	▶ Electric Strikes ▶ Electric Latch Retracted Panic Devices

SECTION 3.2: Wiring

Item	Description
Power Input	100VAC - 130 VAC, AC 50-60 Hz; 3A (*NABCO recommends min. 5A service)*
Power for accessories	12VDC; 750mA
Output Rating	Transistor Output; 100mA @ 12VDC
Relay Output Rating	Mechanical Relay Output; 3A at 110VAC
F1 Fuse	120VAC Power Circuit of Control

SECTION 3.3: General Specifications

Specification	Description
Temperature Range	-13 degrees to 140 degrees Fahrenheit
Motor Type	High voltage, Brushless Motor with Encoder, 115V
Number of Signal Inputs	► 1 x Activation ► 2 x Door Mode ► 2 x Safety ► 1 x Sequential ► 1 x Breakout (stop) ► 3 x Programmable
Number of Outputs	► 1 x Electric Lock Form C Relay ► 2 x Programmable Transistor Outputs

SECTION 3.4: Electrical Specifications

Note: All Wiring Diagrams included within this manual, reflect typical primary and secondary circuits that might be commonly used. On site wiring may be different from that shown.

Note: NABCO factory utilizes Underwriters Laboratories (UL) recognized component wire, terminals and connector housings to manufacture all Automatic Door systems.

Table 1 Power Draw Common Accessories

Sensor	Part Number	Current Consumption	
BEA IXIO-DT1	V-00057	200mA	(ea.unit) at 12VDC
Acusensor M	A-01306	150mA	
Optex i-oneX T	V-00746	208mA	
Acuzone T	V-00745	208mA	
Radio Control Receiver	24-11467	50mA	
CX33 Logic Relay	V-00734	320mA	

SECTION 3.5: Output Power Guidelines

TOTAL current draw from the Opus Control must not exceed 0.7A when providing power to:

► Sensors ► Modules ► Accessories ► Auxiliary Equipment

An auxiliary power supply, (e.g. NABCO Transformer 24 VDC Power Supply, P/N V-00022) must be utilized if TOTAL current draw exceeds 0.7A.

CAUTION **The Opus Control must Not be used to power: Magnetic Locks nor Electric Locks**

To determine if an auxiliary power supply must be used, add the total current draw of all devices. Please refer to the formula below:

Example: An Automatic Door System is to be fitted with the following devices:

2 x Acusensor M @ 150 mA = 300 mA

1 x Cp/RX Radio Control Receiver @ 50 mA = 50 mA

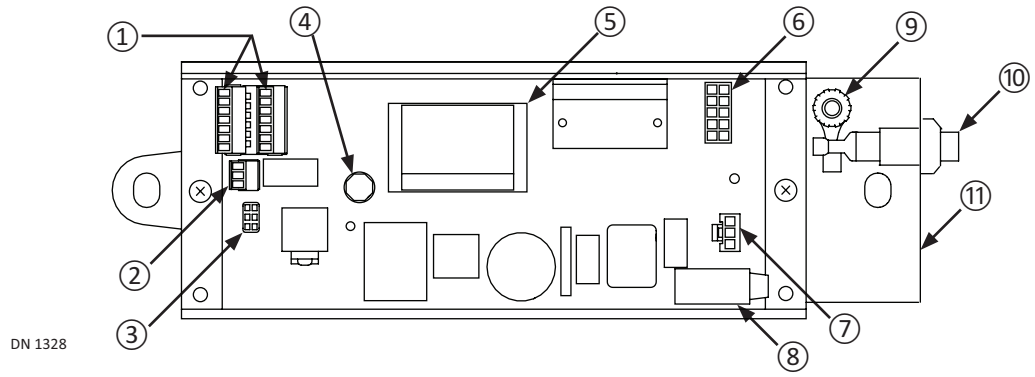
Total = 350 mA

350mA does not exceed total current draw.

An Auxiliary Power Supply does not need to be used.

SECTION 3.6: The Opus Control for GT1175 Units

Note: The Hold Close feature is enabled when the LCD screen is OFF, or disabled when the LCD screen is LIT.



1	CN3	I/O Terminal Strip	5	-	LCD Screen	9	-	Ground Screw (Slide Door only)
2	CN5	Relay Output Terminal Strip	6	CN2	Motor Connector	10	-	Power Switch (Slide Door only)
3	CN4	CAN Bus Communication	7	CN1	Power Connector	11	-	Bracket (Slide Door only)
4	-	Rotary Dial	8	-	Fuse			

SECTION 3.7: Navigate with the Rotary Dial

- ▶ Push down on the Rotary Dial:
  1. Long push (2) seconds to gain access to LCD Category Screens.
  2. Short push under (2) seconds to access Sub-level screens, and to selected/unselect menu items.
  3. Long push (2) seconds to go back to Level Two or Level One screens.
  4. Long push (2) seconds to go back to Main screen.
- ▶ Turn the Rotary Dial (2) clicks to advance through each menu item:
  - Clockwise: To scroll forward through screens and programming options.
  - Counterclockwise: To scroll backward through screens and programming options.

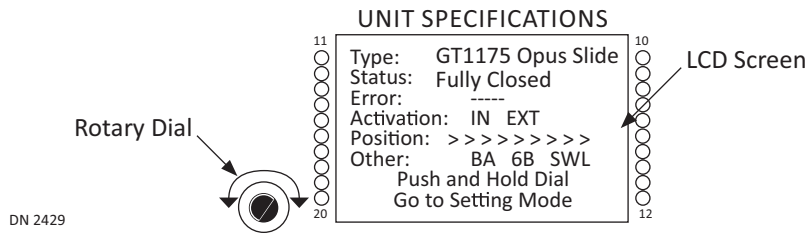


Figure 1 The Rotary Dial

SECTION 3.8: IO Terminal strips

I/O Terminal Strips (1 thru 14)							
1	12VDC	+12VDC	8	BA	Breakout		
2	GND	Common for 12V and signals	9	SQ	Sequential activation (signal to open, signal to close)		
3	61	Interior Activation	10	H	Reduced Open (Programmable Input)		
4	62	Exterior Activation/Programmable Input	11	M0	Mode 0	One way when connected to Common	Hold Open when both M0 and M1 connected to Common
5	6B	Holding Beam					
6	SWL	Default setting: Sidelite Safety	12	M1	Mode 1	Night when connected to Common	
		Rev 27 & Later: Input is programmable					
7	Out1	Sensor Monitoring (Programmable Output)	13	Out 2	Aux. Output 2, Programmable output, closes to GND		
		Closes to Common	14	GND	Common for all above signals		

SECTION 3.9: Relay Output Terminal Strip

Relay Output 3					
COM	Common Input	N.C.	Normally Closed Contact	N.O.	Normally Open contact for Sensor Monitoring

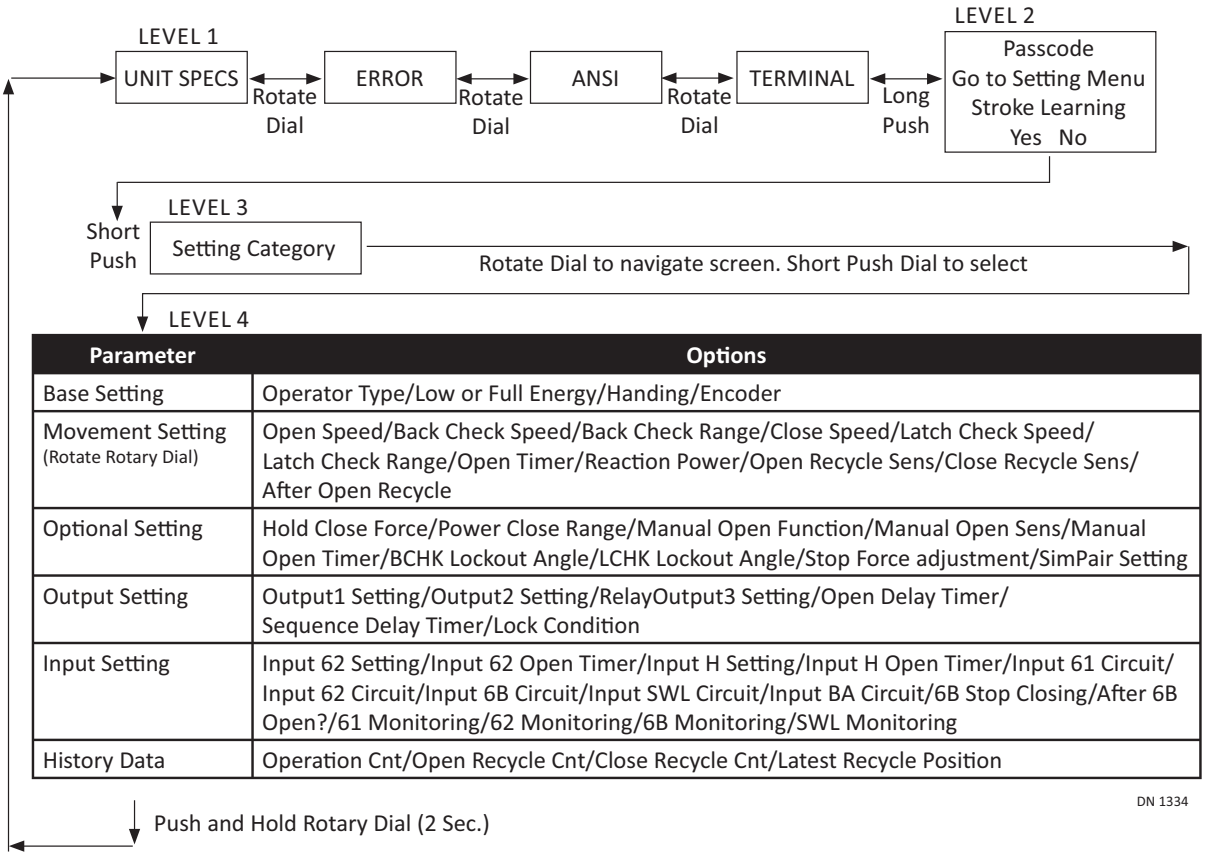
SECTION 3.10: CAN Bus Communication

Used to connect Sim Pair, Astragal, Sequencing and the NET-HT Cable when programming.

SECTION 3.11: Simultaneous Pair

Bi-Part Units installed with panels larger and/or heavier than standard panels, require (2) Drivetrains. (2) Drivetrains require (2) Opus Controls. (2) Opus Controls installed inside (1) Header must be programmed as a Sim-Pair (same as a swing door). (2) Opus Controls are installed inside the Header and programmed as a Sim-Pair at the NABCO Factory.

CHAPTER 4: LCD CATEGORY SCREENS



Parameter	Options
Base Setting	Operator Type/Low or Full Energy/Handing/Encoder
Movement Setting (Rotate Rotary Dial)	Open Speed/Back Check Speed/Back Check Range/Close Speed/Latch Check Speed/ Latch Check Range/Open Timer/Reaction Power/Open Recycle Sens/Close Recycle Sens/ After Open Recycle
Optional Setting	Hold Close Force/Power Close Range/Manual Open Function/Manual Open Sens/Manual Open Timer/BCHK Lockout Angle/LCHK Lockout Angle/Stop Force adjustment/SimPair Setting
Output Setting	Output1 Setting/Output2 Setting/RelayOutput3 Setting/Open Delay Timer/ Sequence Delay Timer/Lock Condition
Input Setting	Input 62 Setting/Input 62 Open Timer/Input H Setting/Input H Open Timer/Input 61 Circuit/ Input 62 Circuit/Input 6B Circuit/Input SWL Circuit/Input BA Circuit/6B Stop Closing/After 6B Open?/61 Monitoring/62 Monitoring/6B Monitoring/SWL Monitoring
History Data	Operation Cnt/Open Recycle Cnt/Close Recycle Cnt/Latest Recycle Position

Figure 2 LCD Screen Transition

SECTION 4.1 Level One: Specification Screens

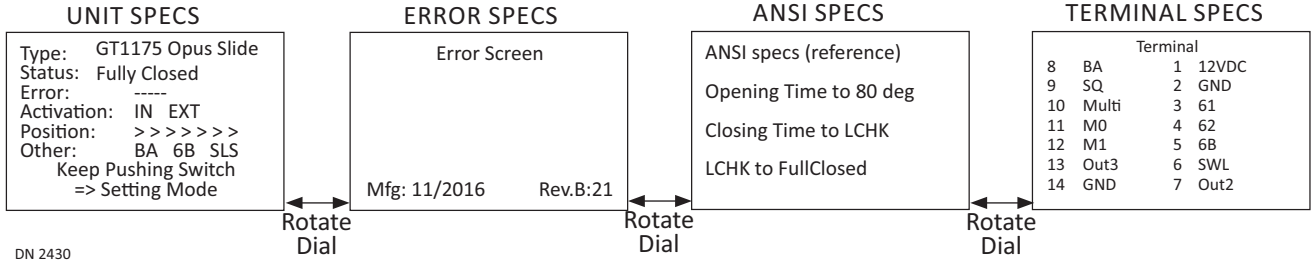


Figure 3 Level One Screens

Level One screens are used to inform the User all specifications that have already been programmed into the Opus Control. If a specification needs to be changed, the User must reprogram the Opus Control within the Level Three screen, or Level Four screen.

When Power is turned ON for the first time, the Door does not move. Instead, an LCD screen will illuminate to display a Level One: Unit Specification screen (Default screen).

There are (4) Level One screens:

- Unit Specifications: Displays the type of door and current status of the unit. The type of door (swing, slide or folding) can be changed within the Base Settings Category (Level 3 and Level 4). Please refer to Subsection Table 5 The screen above shows the Opus control installed on a GT710.
- Error Specifications: This screen will only display an Error Code in the event there is an Error. Otherwise this screen stays blank.

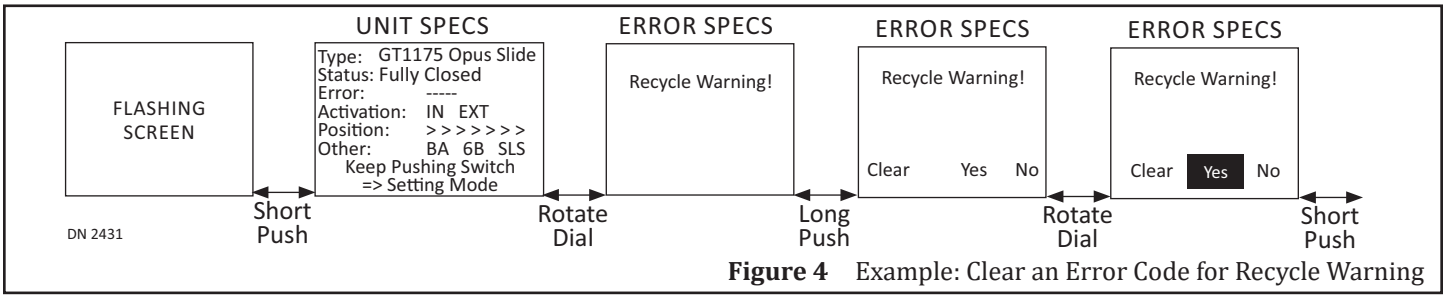


Figure 4 Example: Clear an Error Code for Recycle Warning

- ANSI Specifications: Displays the actual time of opening and closing of the door to help determine ANSI compliance. (Applies to swing doors only).
- Terminal Specifications: Displays the current status of all of the Input/Output lines of the terminal strip.

SECTION 4.2 Level Two: Access Screen

Note: The "Activate Passcode" option is only displayed in the event "0045" had not already been entered.

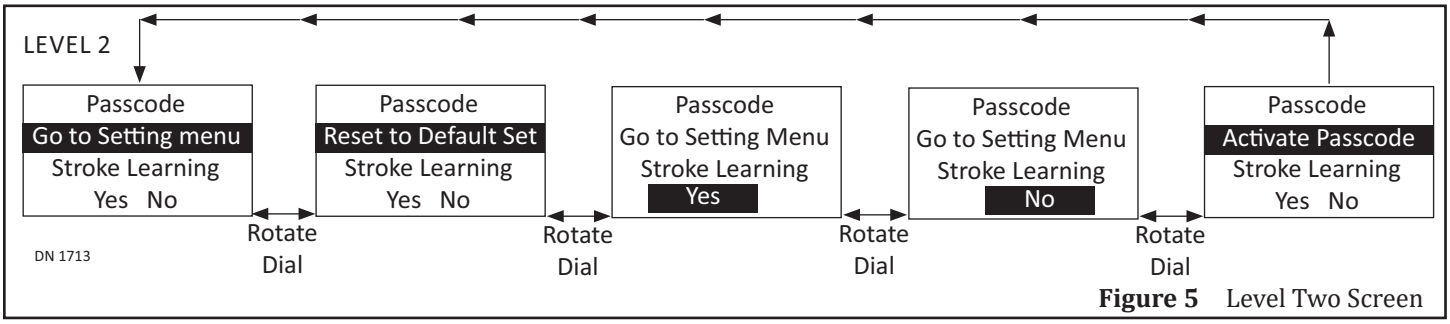
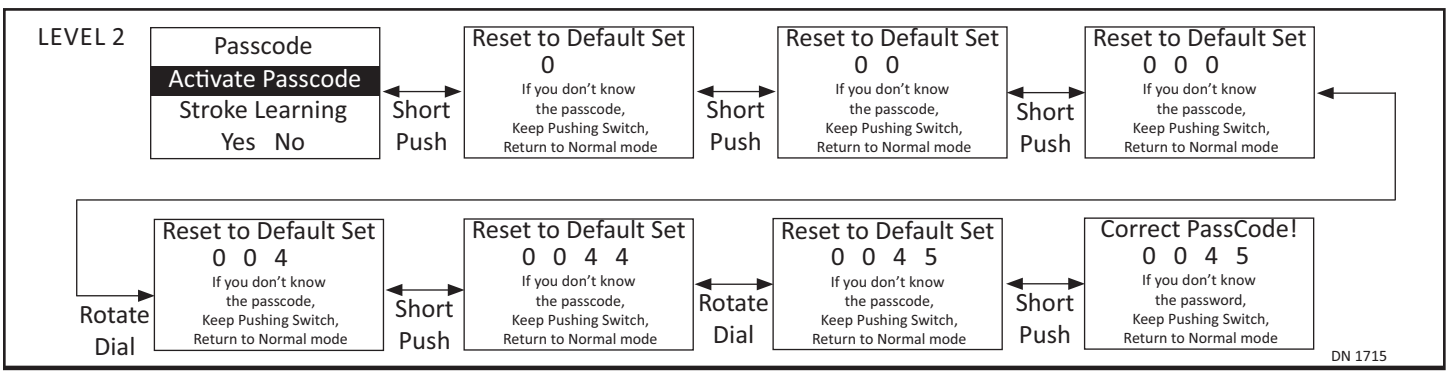


Figure 5 Level Two Screen

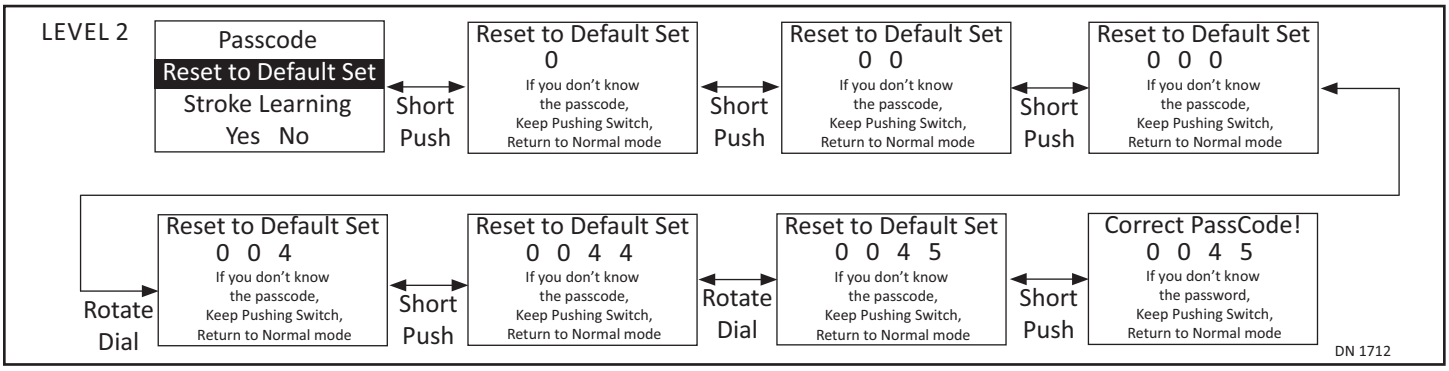
Attention: To prevent tampering, a Universal Passcode (0045) has been programmed into all Opus Controls. This Passcode cannot be changed, but can be turned OFF and ON.

Attention: Do Not activate Passcode (0045) until programming of the Opus Control is complete. Failure to do so, will force the User to enter (0045) each time a change is made.

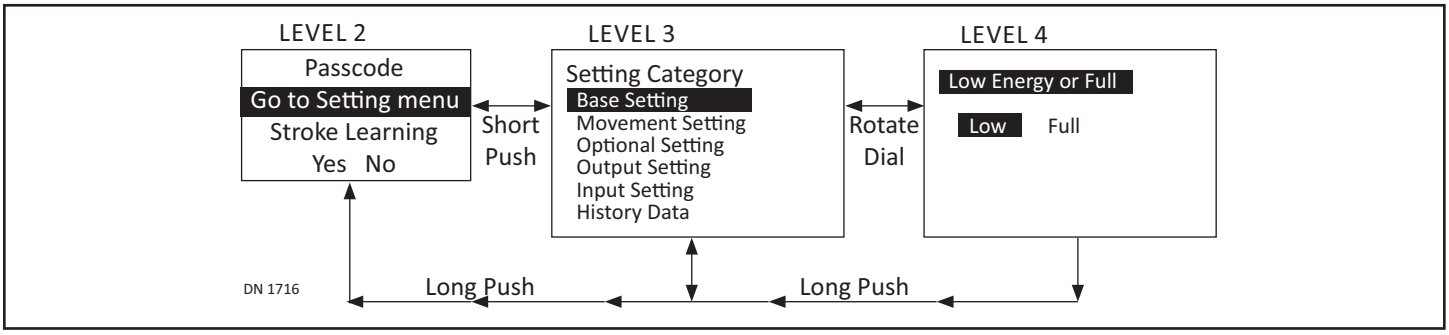
SECTION 4.3 Enter Passcode



SECTION 4.4 Cancel Passcode or Reset to Default



SECTION 4.5 Level Three and Four: Setting Category and Menu Items



CHAPTER 5: STROKE LEARNING

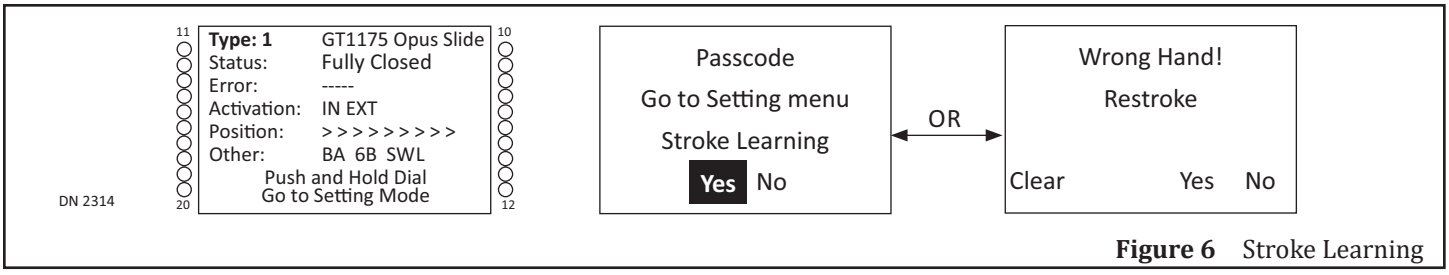


Figure 6 Stroke Learning

Note: Prior to stroke learn the door must always be in the closed position and status should read fully closed.

Stroke Learning is used to measure from Fully Closed to Fully Open points in effort to determine where Check Points should happen.

SECTION 5.1 Stroke Learning (YES)

1. Go to the Opus Control. From the Unit Specs Screen, press down on the Rotary Dial until the next Screen is displayed.
2. Turn the Rotary Dial to highlight (YES) under (Stroke Learning).
   a. Do not press the Rotary Dial at this time.
3. Fully Open the Slide door.
4. Go back to the Opus Control. Briefly press down on the Rotary Dial.
   a. The Control will check to see if the Door is fully Open → then slowly Close

SECTION 5.2 Error Message

If Handing of Door is wrong, messages after the Stroke Learning Cycle will display: "Wrong Hand! Restroke". If this event occurs one of two things are indicated:

- The wrong Operator Type is selected - or - the wrong Handing is selected.

If the wrong Handing is selected:

- Enter the proper settings within the Base Setting Category screens.

CHAPTER 6: SIMULTANEOUS PAIR

Attention: DO NOT copy data from the Slave Control (Type 1). If data is copied from a Slave Control (Type 1):

- **The Slave Control (Type 1) will change itself into a Master Control (Type 2).**
- **Controls of the same Type cannot communicate between each other.**

Attention: Sometimes Bi-Part Doors are built large enough to require (2) Drivetrains. This means (2) Opus Controls will be set up as a Sim-Pair. This should already be set from the NABCO Factory.

Attention: When programming Opus controls on Bi-Fold doors using 2 controls, Always say "NO" to "copy data?".

Attention: Monitored sensors are only connected to the Master Control (Type 2). If settings for monitoring sensors are copied to the Slave Control (Type 1), Sensor Monitoring errors will occur.

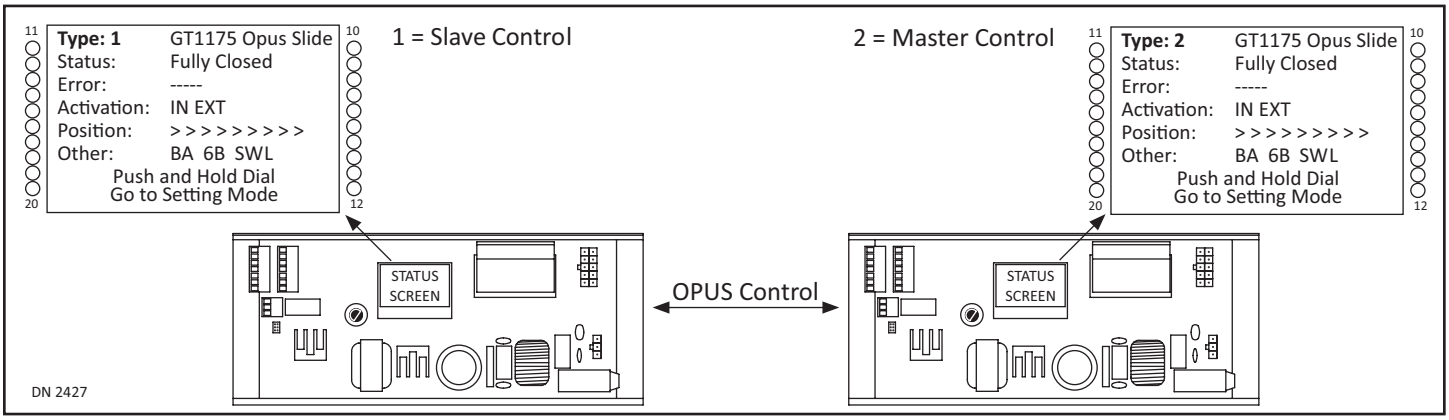
Attention: Necessary changes (such as speed or timing) must be made for Both Controls at the same time. These changes must be done Manually. DO NOT copy.

Attention: Stroke Learning must be performed on each Opus Conrol.

Note: Opus Controls installed inside Bi-Part Headers are programmed to operate as a pair at the NABCO Factory.

Within the Status Screen (main screen) located at the top, Opus Controls are labeled Type 1 or Type 2. Type 1 should be considered the Slave Control; Type 2 should be considered the Master Control:

- All Activation Devices and main harness are connected to the Master Control (Type 2).
- Programming/Settings that need to apply to both Controls, must be done from the Master Control (Type 2).
- To ensure programming/settings made to the Master Control (Type 2) is copied to the Type 1 (Slave Control), select YES when prompted to COPY DATA. This is done when backing out of programming.



SECTION 6.1: Copy Data from Type 2 (Master Control) to Type 1 (Slave Control)

1. Go to the Type 2 (Master Control). Push the Rotary Dial in for 2 seconds, release.
2. Push the Rotary Dial in again 2 seconds for (Copy Data (YES or NO).
3. Upon exiting the (Copy Data (SimPair) screen will display.
   1. Turn the Rotary Dial to highlight (YES)
   2. Briefly press down on the Rotary Dial to select. Programming/Settings made to the Type 2 Control will automatically copy to the Type 1 Control.

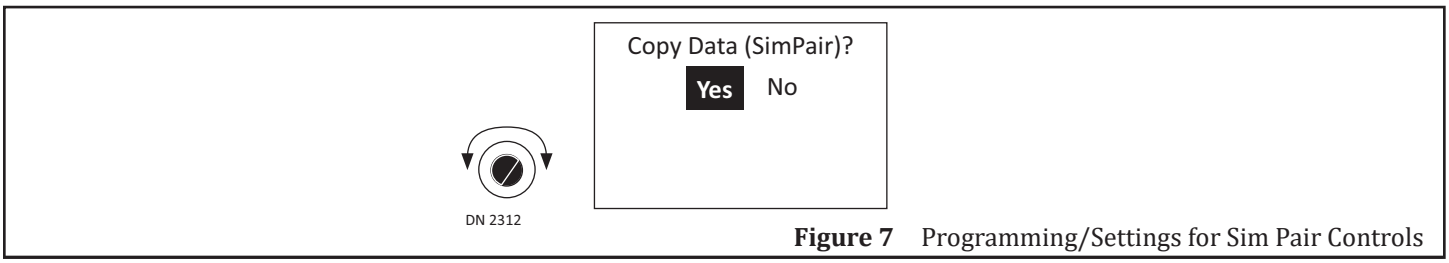


Figure 7 Programming/Settings for Sim Pair Controls

SECTION 6.2: Resetting a Type 2 Control back to a Type 1 Control

Note: When resseting to default the control BA is N.C. and sim pair setting is Single door.

There can never be (2) Master Controls, or (2) Slave Controls. There must always be (1) Master Control, and (1) Slave Control.

1. Go to the Control without activation devices connected to it. This will be the Slave Control (Type 1). Perform a Factory Reset.
    1. Press down on the Rotary Dial until the next screen is displayed.
    2. Turn the Rotary Dial clockwise to highlight (Reset to Default Set).
    3. Briefly press down on the Rotary Dial. Enter the passcode: 0045.
        1. Turn the Rotary Dial clockwise to highlight a preferred number, then briefly press down.
        2. Repeat until the passcode is complete.
    4. Briefly press down on the Rotary Dial to display the (Setting Category) Screen.

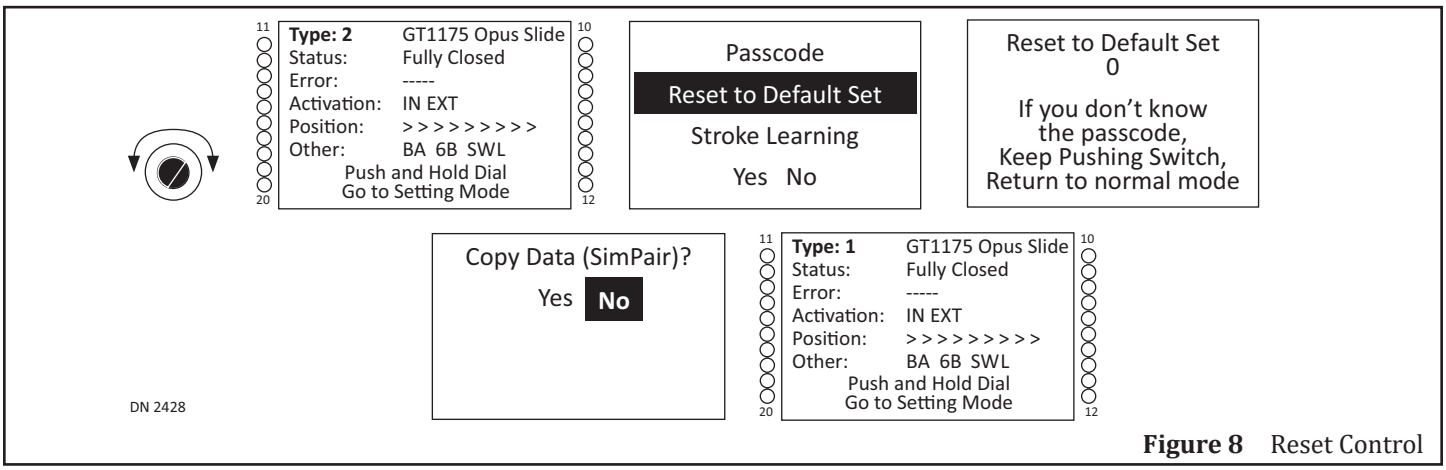


Figure 8 Reset Control

2. Turn the Rotary Dial to highlght (Optional Setting). Briefly press down on the Rotary Dial. Turn the Rotary Dial to highlight (Simpair Setting). Briefly press down on the Rotary Dial to select.
3. Turn the Rotary Dial to highlight the desired Paired Setting. Briefly press down on the Rotary Dial to select.
4. Press and hold the Rotary Dial until the (Setting Category) screen is displayed.
5. Press and hold the Rotary Dial until the (Copy Data) Screen is displayed.
6. Turn the Rotary Dial to select (NO).
7. Briefly press down on the Rotary Dial. The Type 2 (Master Control) will automatically reset to the Type 1 (Slave Control).

SECTION 6.3: Customized Programming/Settings for (1) Control only

Note: Customized Programming/Settings can be done for (1) Control without losing data previously saved for (2) Controls.

Sometimes Programming/Settings need to change for (1) Control only. For example, Door (1) needs to open faster than Door (2).

1. Go to the Type 1 (Slave Control) or Type 2 (Master Control). Program any/all new settings.
2. Press and hold the Rotary Dial until the (Copy data) Screen is displayed.
3. Turn the Rotary Dial to select (NO).
    a. Customized Programming/Settings will only be saved to (1) Control.

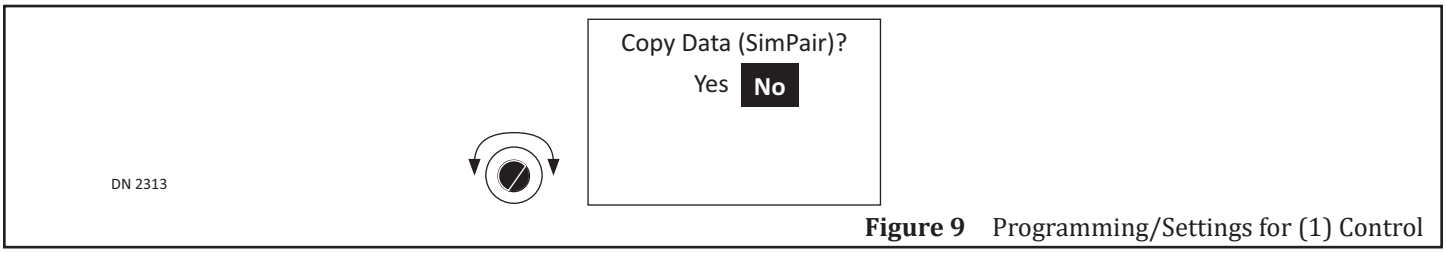


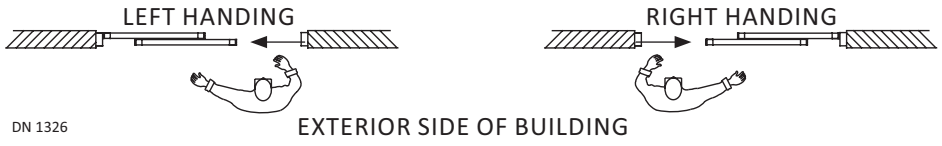
Figure 9 Programming/Settings for (1) Control

CHAPTER 7: SENSORS WITH MONITORING

- ▶ It's best to setup the controls and have the doors operating as desired before connecting safety sensors. This way any settings that typically need to be copied are already established.
- ▶ Door mounted safety sensors should be connected to the control running the door which those sensors apply to.
- ▶ When monitored sensor wiring is different between controls, you want to avoid monitoring settings from being copied to the other control, say "no" to "copy data" when exiting programming.
- ▶ Overhead safety sensors are not ideal on low-energy pairs or whenever doors are often used manually. But when used (common in full-automatic doors), as above, monitoring should only be active on the control that the sensor is connected to, typically the "Type 2" Control. Avoid copying data.

CHAPTER 8: PROGRAMMING MENUS

SECTION 8.1: Base Settings

Base Setting			
Setting Category	**Menu Item**	**Default**	**Action**
Operator Type	▶ GT-300/400/500 Swing ▶ GT-1175 Retrofit Slide ▶ GT-1175 Opus Slide ▶ GT-710 Swing	GT-710 Swing	▶ Select (1175 Opus Slide) when VS-150 Operator is used. ▶ Select (1175 Retrofit Slide) when U01-U19 type Operator is used.
Door Hand ATTENTION: Bi-Parts are set up as Left Hand	▶ Left ▶ Right	Left	From the Exterior Side of Building, determine which Handing to enter: Left or Right
			
	▶ When used with VS-150 Operator: Slider Handing can also be selected on the Opus Control by the direction of the motor rotation during door opening (CW, CCW) .		
Reduced Stroke	▶ Yes ▶ No	No	To reduce opening, manually move door and push YES

SECTION 8.2: Movement Settings

Movement Setting			
Parameter	**Range**	**Default**	**Description**
Open Speed	0 - 7	3	The higher the number the faster the Door opens
Back Check Speed	0 - 7	3	Sets door speed during Back Check
Back Check Range	0 - 7	3	Slide Door: 1" to 13-3/4" of Fully Open
Close Speed	0 - 7	3	The higher the number the faster the Door closes
Latch Check Speed	0 - 7	3	Sets door speed during latch check
Latch Check Range	0 - 7	3	Slide Door: 1" to 13-3/4" of Fully Closed
Open Timer	0-10, 12, 15, 20, 25, 30	2	Hold Open time after Door reaches Full Open and activation signal is no longer present.
Reaction Power	0 - 7	3	Determines how fast the door reacts to a reactivation when closing.
Open Recycle Sens Close Recycle Sens	0 - 7	3	Recycle detection Sensitivity. Determines how much force is exerted during opening or closing cycle. ▶ "0"= most sensitive ▶ "7" = least sensitive
After Open Recycle	Slow Open Stop	Slow Open	Determines what happens after a recycle during Opening cycle. Slow Open = Door stops then slowly opens. Stop = Door stops then slowly closes.

Movement Setting			
Parameter	**Range**	**Default**	**Description**
Close Recycle Reopen	Yes No	Yes	Determines what happens after a recycle while closing cycle. ► Yes = Door re-opens ► No = Door stops then slowly closes

SECTION 8.3: Optional Settings

Optional Setting				
Parameter	**Range**	**Default**	**Description**	
Hold Close Force	0 - 3	0	0	OFF
			3	Strongest Hold Close force
Sim Pair Setting	Single Door	Single Door	Select type of Door	
	Normal Sim Pair		If selected; before returning to last screen, option to copy settings to other Control is given.	
	Double Egress		The Activation signal (only) is shared between doors. All other signals are independent.	
	Overlap Sim Pair		► Overlap Sim Pair is for an Astragal Application. ► Opus Control connected to door that must open first: 1. Have activation signals connected to it 2. Be set to “Overlap Sim Pair” ► The delayed control will be set to “Normal Sim Pair” ► Latch Check range is wider than normal setting. ► If selected; before returning to last screen, the option to copy settings to the other Control is given	
Flip Screen	Yes No	No	Choose Yes if Opus is installed upside down. LCD will flip right side up when Control is upside down.	

SECTION 8.4: Output Settings

Output Setting				
Parameter	**Terminal**	**Default**	**Range**	**Description**
Output 1	Terminal 7	Sensor Monitoring (N.O.)	► — —	► No Output
Output 2	Terminal 13	Fully Closed Position	► Fully Closed Position	► Output closes when fully closed
Relay Output 3	Relay Output Terminals	— —	► Closing Status	► Output closes when door is closing
			► Opening Status	► Output closes when door is opening
			► Fully Opened Position	► Output closes when door fully opened.
			► Error State Output	► Output closes when error detected
			► Recycle happened	► Output closes when recycle occurs
			► Electric Strike Lock	► Set for electric strike functionality (N.O.)
			► Electric Magnetic Lock	► Set for Mag lock functionality (N.C.)
			► Air lock	► Set for Air lock functionality
			► Breakout Pass through	► Output closes when breakout occurs
			► TrmnL H PassThrough	► Output changes state when input H changes state
			► Door Sequencing	► Provision for door sequencing
			► Sensor Monitoring (N.O.)	► Normally open Monitoring circuit (high logic)
			► Sensor Monitoring (N.C.)	► Normally closed Monitoring ciruit (low logic)
			► Bodyguard Output	► Outputs data for bodyguard sensors and other sensors that utilize same data.
			► For Elite N Output	► For Elite (N) sensor made by Optex. (Output 1 only)
Open Delay Timer	N/A	0.4	0.5, 1.0, 1.5 sec After Unlock Input	Delay time after activation to allow lock to unlock before the door starts moving. Only functional if Electric Lock is selected.
Sequence Delay Timer	N/A	0	0-10, 12, 15, 20, 25 Same as Open Timer	Delay Time before second Door opens when an output is being used for Door Sequencing.
Lock Condition	N/A	Every Fully Closed	Every Fully Closed One way/Night Only	Determines when the electric lock engages.

SECTION 8.5: Input Settings

Parameter	Terminal	Input Setting Default	Input Setting Range	Description
Input 62 Setting	Terminal 4	Ext Activation	► — —	► No input
Input SWL Setting	Terminal 6	Sidelite Safety	► All Mode Activation	► Activates in all modes but OFF
Input H Setting	Terminal 10	Reduced Open	► Interior Activation	► Interior Activation (works in one-way)
Input SQ Setting (rev 28 and later)	Terminal 9	Sequential Input	► Exterior Activation	► Activation on exterior
			► Beam Sensor	► Threshold sensor (slide door only)
			► LE Approach Sensor	► Door-mounted Sensor on approach side
			► Unlock Input	► For Lock Feedback where applicable
			► Disable Power Close	► Turns off power close and hold close
			► Sequential Input	► Takes one activation to open door and another to close door
			► Open Slow	► Causes slow opening of the door
			► Safety with Lockout	► Swing side header mounted sensor input (swing door only)
			► Continuous Safety	► Door-mounted Sensor on pull side
			► Reduced Opening	► Causes unit to change to reduced open
			► Emergency Close and Lock	► Forces the door to slowly close and lock (if equipped)
			► Hold Open Mode	► Holds door in open position
		Asia Only	► (Do Not Use) ► AsiaSpec_IntActSwgSd ► AsiaSpec_ExtActSwgSd	► ANSI **does not allow** Activation Sensor to be mounted on the swing side of door. ► If activated, Opus will ignore the Activation Sensor while d-oor is moving. ► This input is for the **ASIAN market ONLY**.
Input 62 Timer	N/A	Same as Open Timer	Same as Open Timer 0 thru 10, 12,15, 20, 25 sec	Hold open time for Input 62
Input H Timer	N/A	Same as Open Timer	0 thru 10, 12,15, 20, 25 sec	Hold open time for Input H
Input SWL Timer	N/A	Same as Open Timer	Same as Open Timer 0 thru 10, 12,15, 20, 25 sec	Hold open time for Input SWL
Input SQ Timer	N/A	Same as Open Timer	Same as Open Timer 0 thru 10, 12,15, 20, 25 sec	Hold open time for Input SQ
Input 61 Circuit	N/A	Normally Open	► Normally Open ► Normally Close	Circuit logic for Input 61
Input 62 Circuit	N/A	Normally Open	► Normally Open ► Normally Close	Circuit logic for Input 62
Input 6B Circuit	N/A	Normally Open	► Normally Open ► Normally Close	Circuit logic for Input 6B
Input SWL Circuit	N/A	Normally Open	► Normally Open ► Normally Close	Circuit logic for Input SWL
Input BA Circuit	N/A	Normally Close	► Normally Open ► Normally Close	Circuit logic for Input BA
6B Stop Closing	N/A	No	► Yes ► No	While closing and 6B is ON at latch check, cycle Determines door movement stop or close.
After 6B Open?	N/A	Yes	► Yes ► No	Determines door movement open or close, after 6B.

Input Setting				
Parameter	**Terminal**	**Default**	**Range**	**Description**
61 Monitoring	N/A	Active	► Active ► Not Active	Sensor monitoring function *
62 Monitoring	N/A	Active	► Active ► Not Active	Sensor monitoring function *
6B Monitoring	N/A	Active	► Active ► Not Active	Sensor monitoring function *
SWL Monitoring	N/A	Not Active	► Active ► Not Active	Sensor monitoring function *

* If monitoring is enabled for any input, a sensor must be connected to that input that is capable of monitoring. That sensor's input must then be connected to an Opus output programmed for monitoring. If this is not done, errors will occur resulting in the door not operating until the problem is fixed.

* Monitoring settings are "OFF" by default except when used as "1175 Opus Slide", in which case standard settings have monitoring enabled.

SECTION 8.6: History Setting

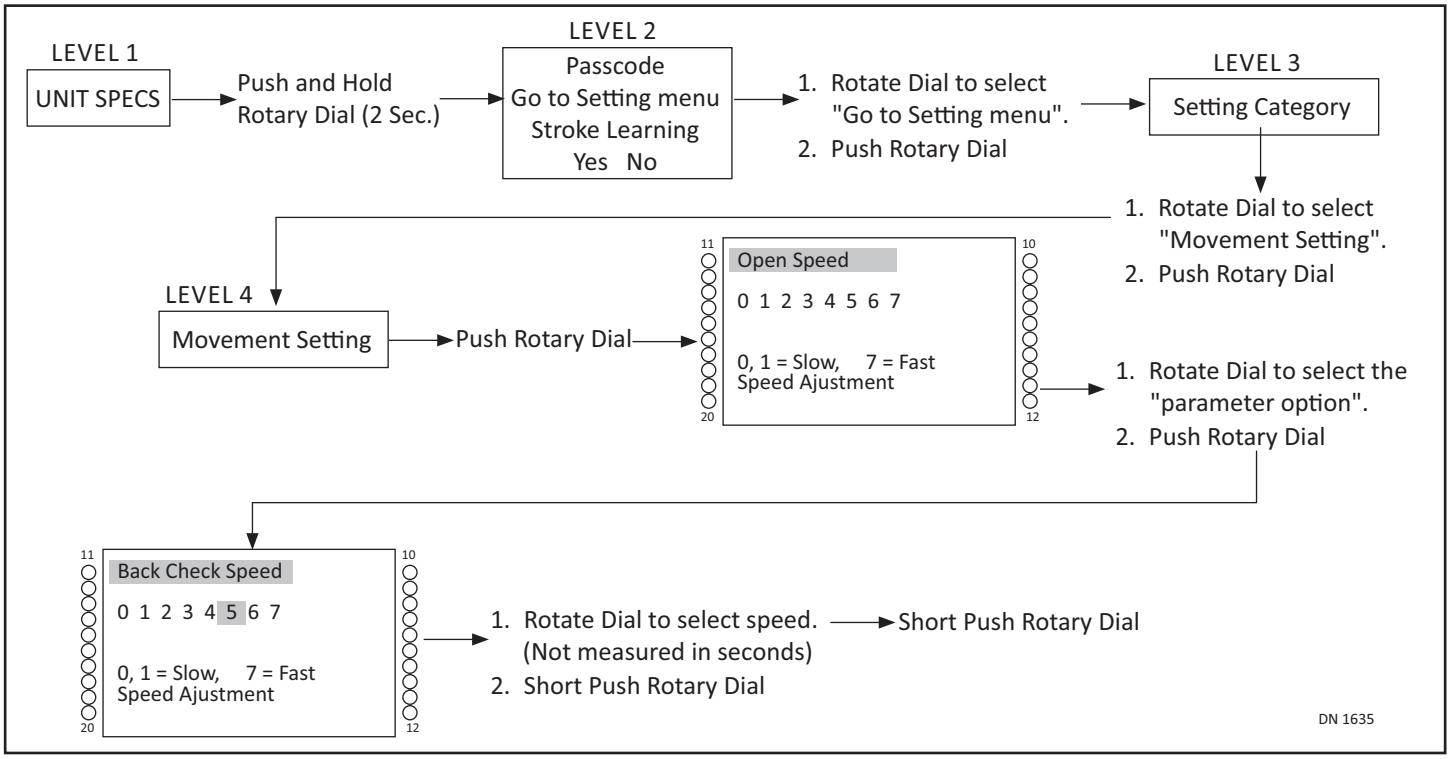
History Data	
Parameter	**Description**
Operation Cnt	► Indicates number of Door open cycles. ► Updated every 100 door cycles.
Open Recycle Cnt	Indicates number of times the Door reversed direction during Opening cycle after sensing: ► An object was struck. ► The amount of friction that surpassed the recycle sensitivity setting.
Close Recycle Cnt	Indicates number of times the Door reversed direction during Closing cycle after sensing: ► An object was struck. ► The amount of friction that surpassed the Recycle Sensitivity Setting.
Latest Recycle Position	► Indicates the last recycle position during opening and closing. ► For swing doors it displays the approximate angle from closed at recycle. For slide doors it displays the position in inches from closed.

SECTION 8.7: Test Open

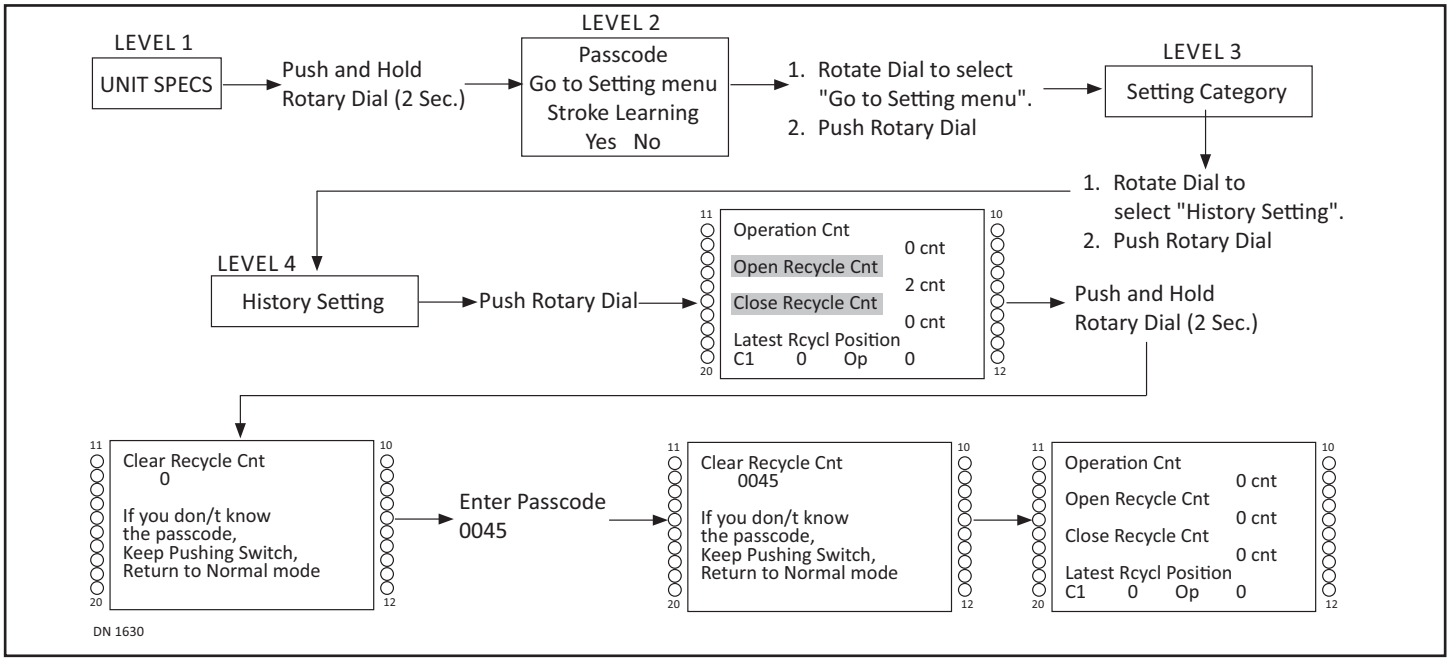
<= Test Open =>
Tests Open/Close door cycle while ignoring Safety Signals.

CHAPTER 9: COMMON PROGRAM ADJUSTMENTS

SECTION 9.1: Movement Settings



SECTION 9.2: Recycle Count "Reset"



1. Go to the Base Setting Category screens. Enter proper Handing settings.
2. Repeat Stroke Learning.

CHAPTER 10: SHUT OFF CIRCUIT BREAKER

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

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

CAUTION **Permanent wiring shall be employed as required by local codes.**

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

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

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

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

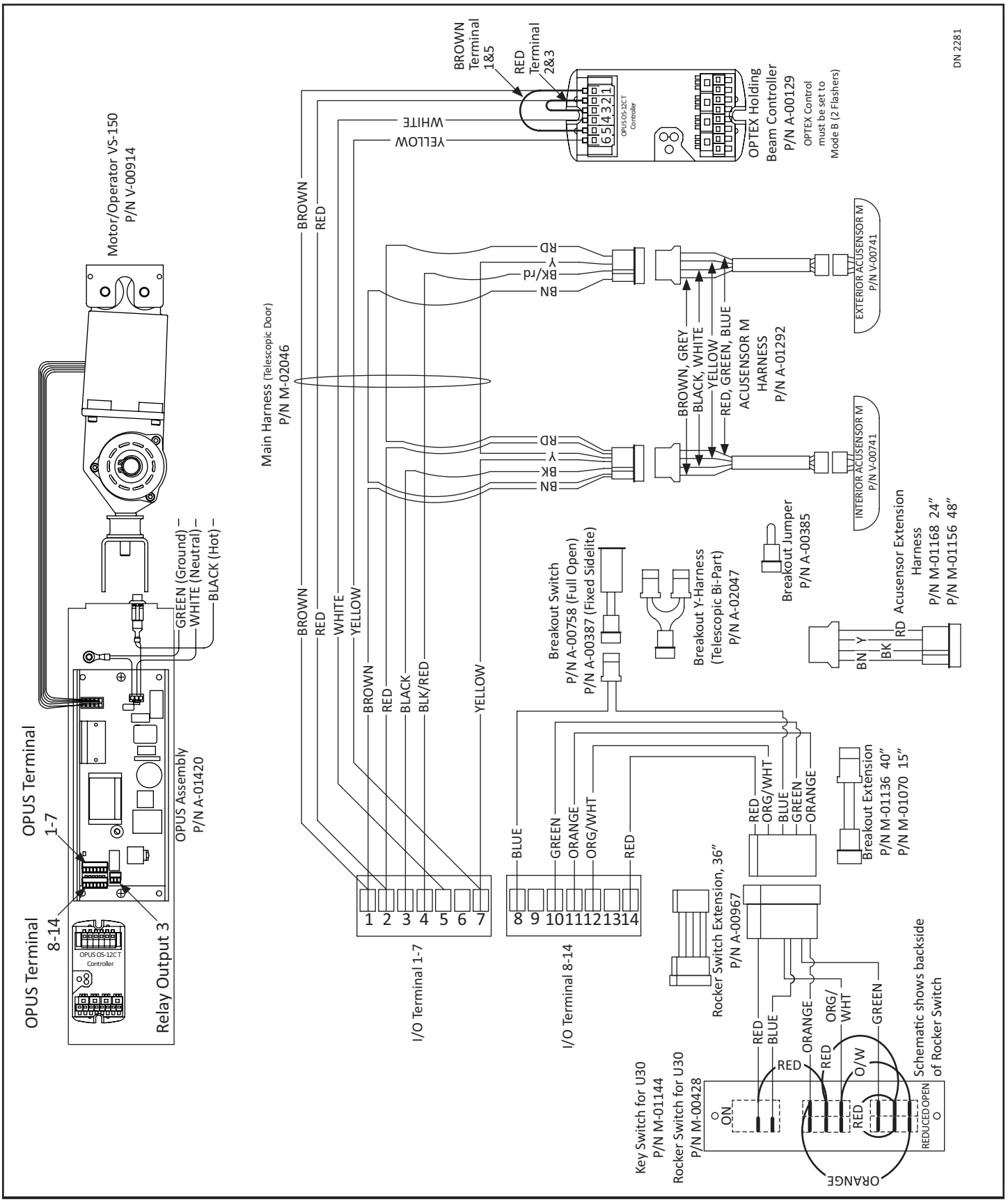
Attention: Electrical circuit to Nabco operator must not be not shared with other equipment such as lighting, cash registers, or any device that might cause electrical interference on the circuit.

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

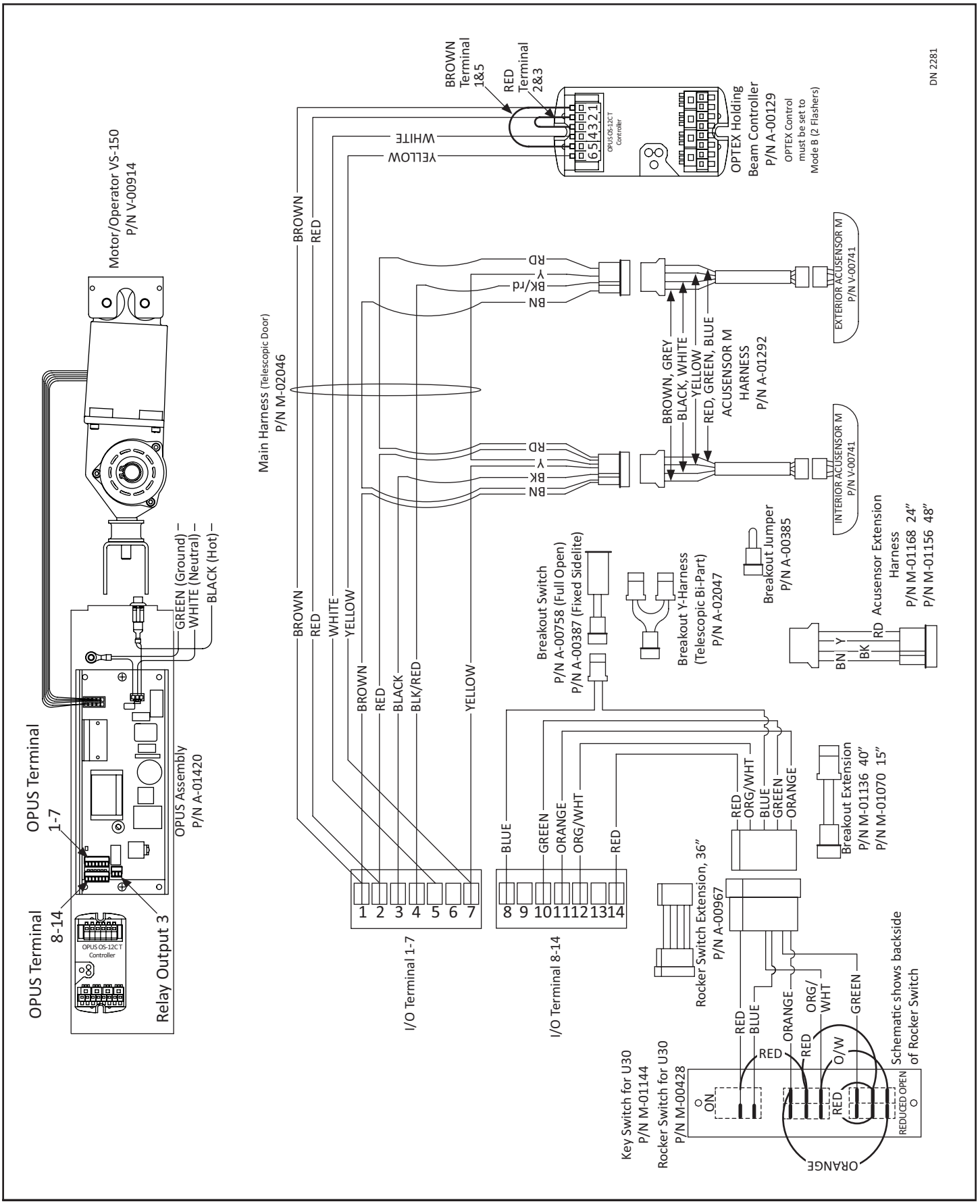
Note: It is recommended for the Installer to house all Incoming 120 VAC wires within an Electrical Conduit.

CHAPTER 11: GT1175 SLIDE DOOR WIRING DIAGRAMS

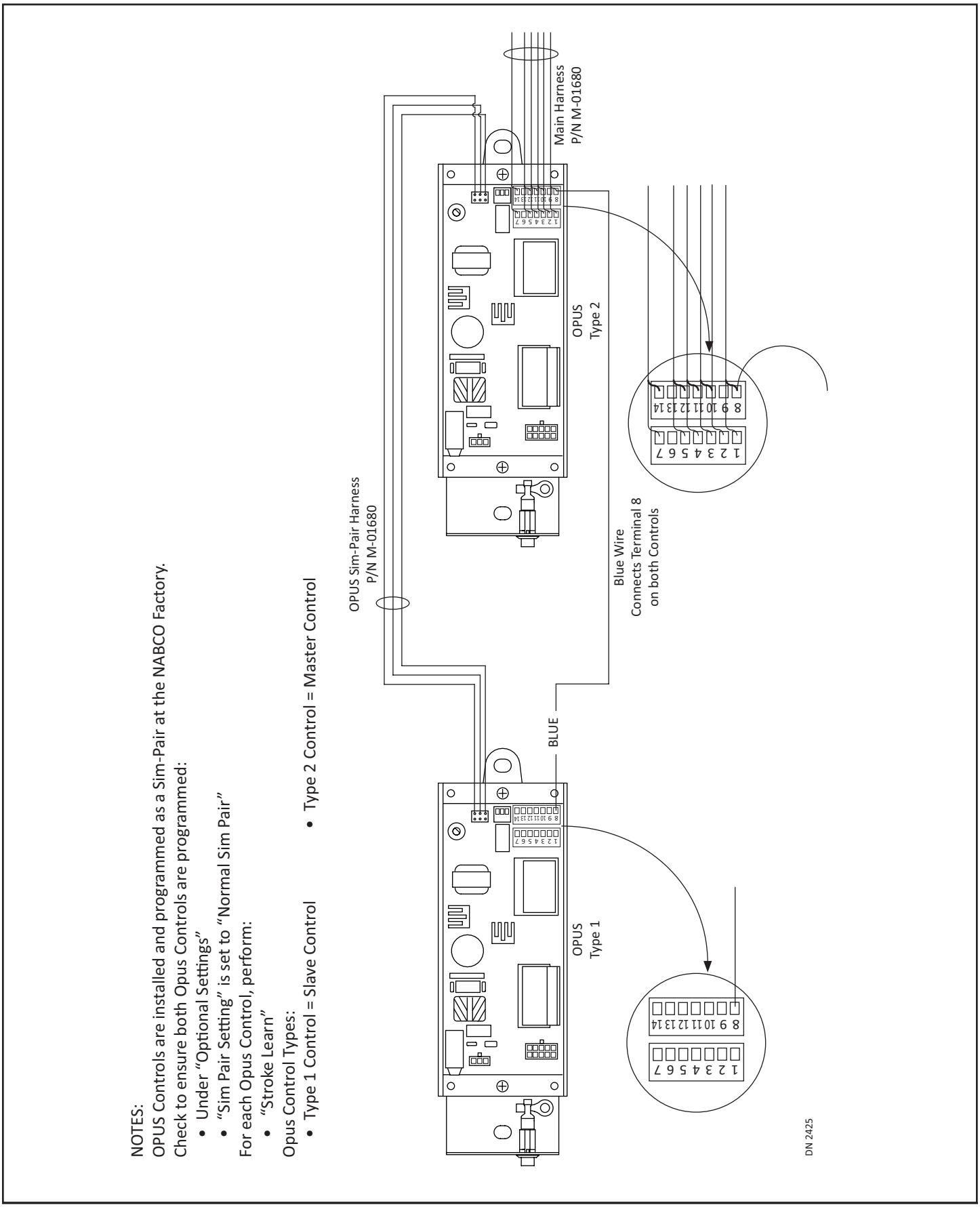
SECTION 11.1: Single Slide Door with Acusensor M and Holding Beam (w/monitoring)



SECTION 11.2: Telescopic Slide Door with Acusensor M and Holding Beam (w/monitoring)



SECTION 11.3: Bi-Part Slide Doors with Two Opus Controls

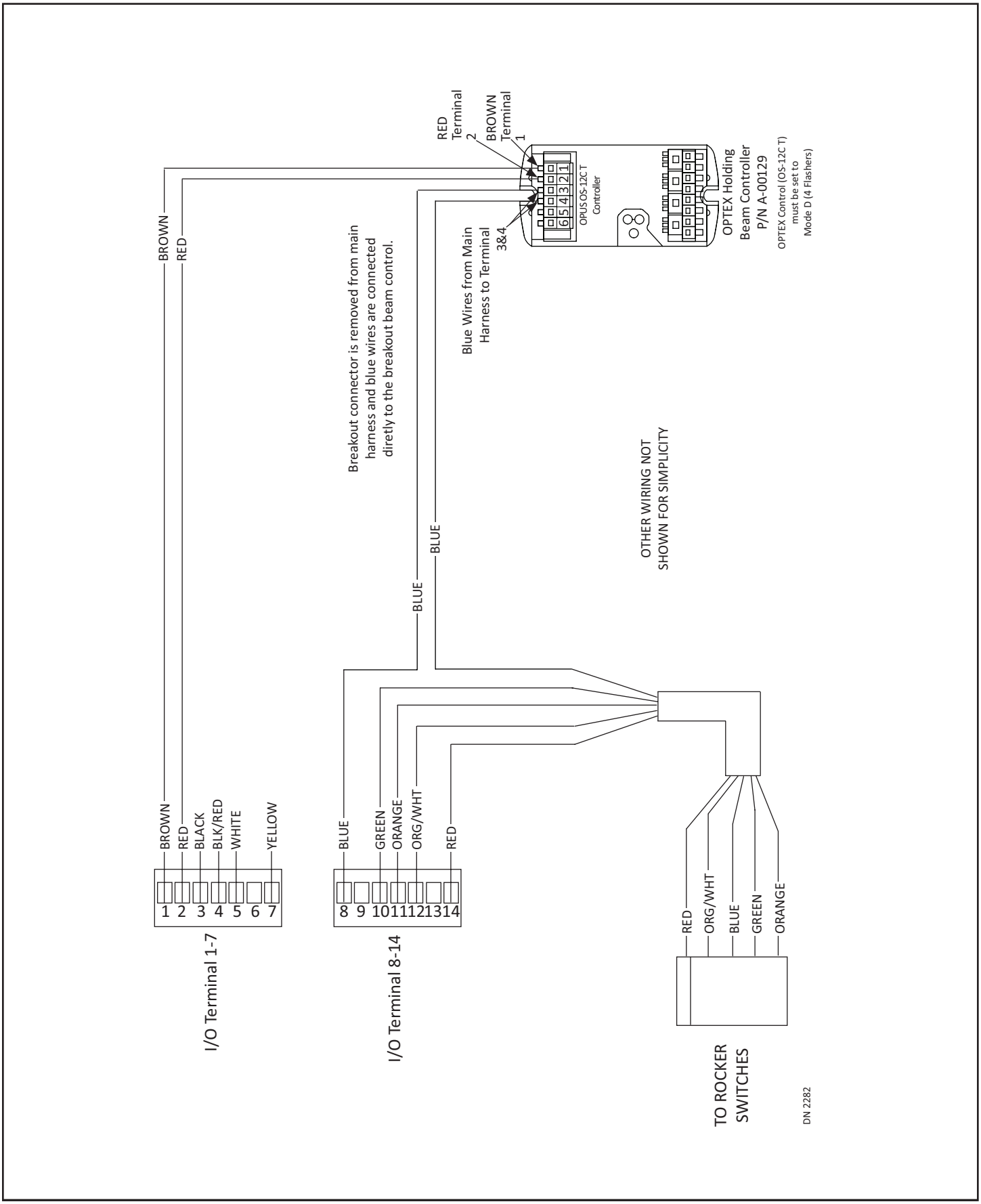


NOTES:
OPUS Controls are installed and programmed as a Sim-Pair at the NABCO Factory.
Check to ensure both Opus Controls are programmed:
- Under "Optional Settings"
- "Sim Pair Setting" is set to "Normal Sim Pair"

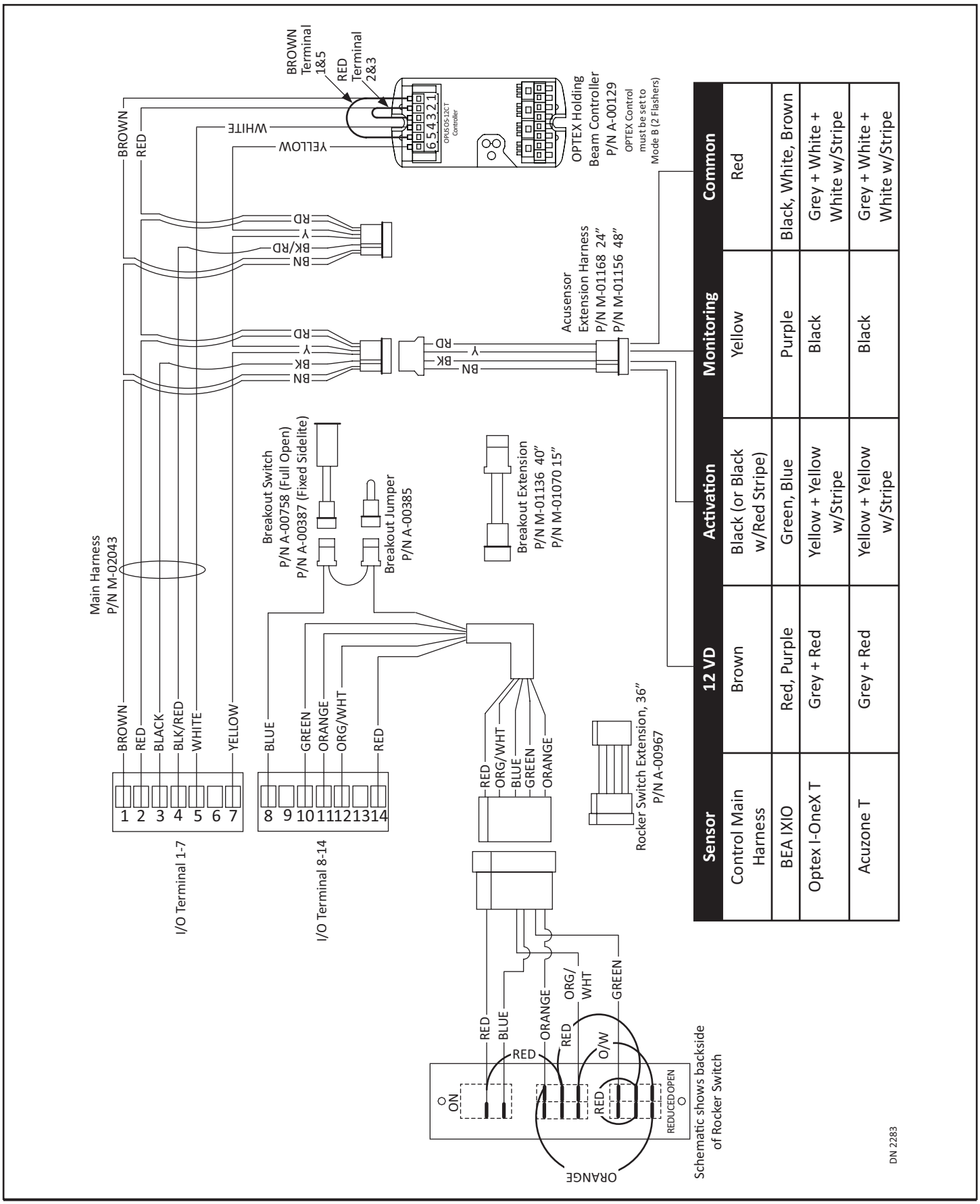
For each Opus Control, perform:
- "Stroke Learn"

Opus Control Types:
- Type 1 Control = Slave Control
- Type 2 Control = Master Control

SECTION 11.4: 1175 OPUS, using Holding Beam for Break-Out (Telescopic Only)

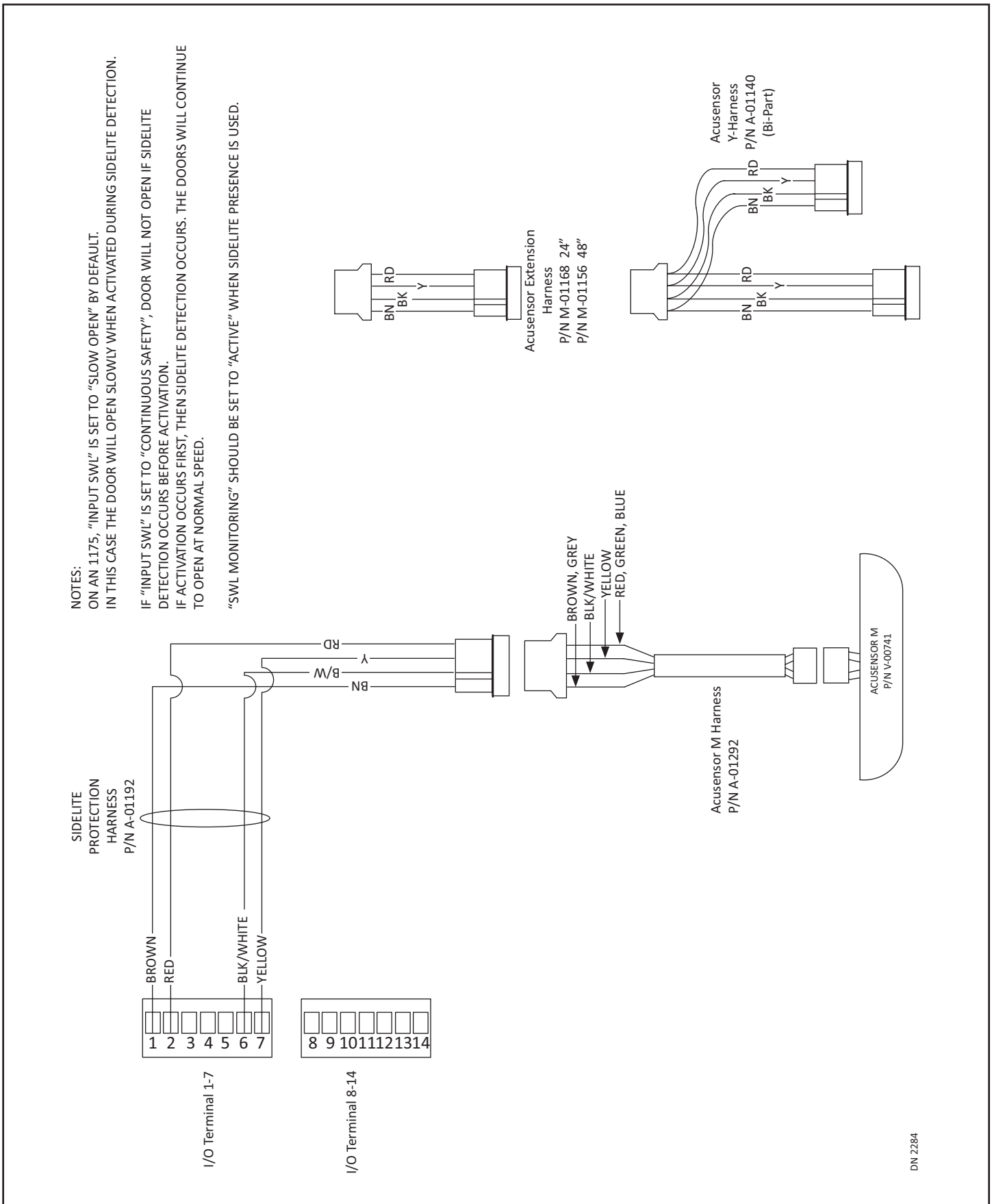


SECTION 11.5: 1175 Matching other Common Sensors to 1175 with OPUS

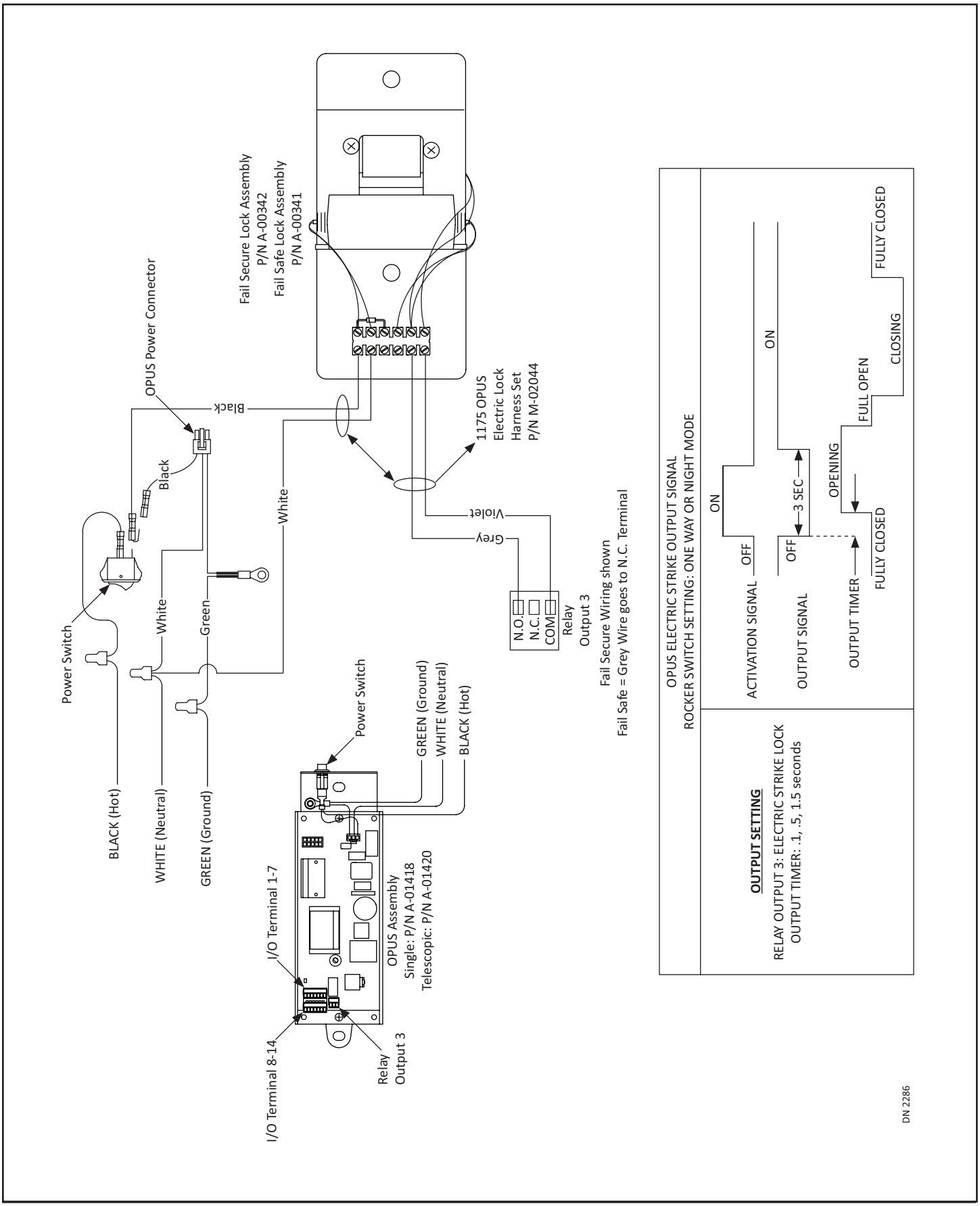


Sensor	12 VD	Activation	Monitoring	Common
Control Main Harness	Brown	Black (or Black w/Red Stripe)	Yellow	Red
BEA IXIO	Red, Purple	Green, Blue	Purple	Black, White, Brown
Optex I-OneX T	Grey + Red	Yellow + Yellow w/Stripe	Black	Grey + White + White w/Stripe
Acuzone T	Grey + Red	Yellow + Yellow w/Stripe	Black	Grey + White + White w/Stripe

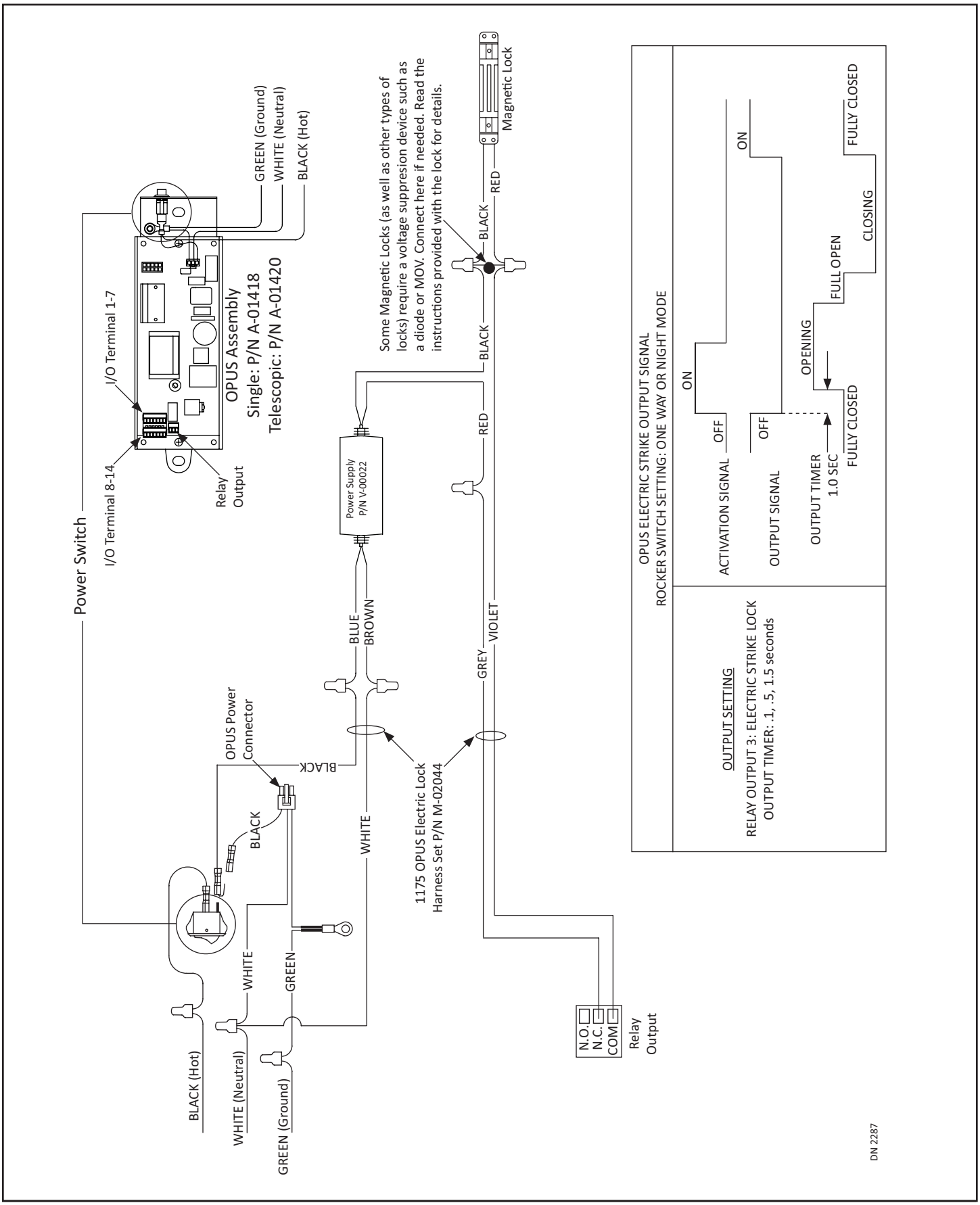
SECTION 11.6: Factory Wiring for using Acusensor M for Sidelite Safety



SECTION 11.7: Opus with 1175 Electric Lock



SECTION 11.8: Opus with 1175 Magnetic Lock



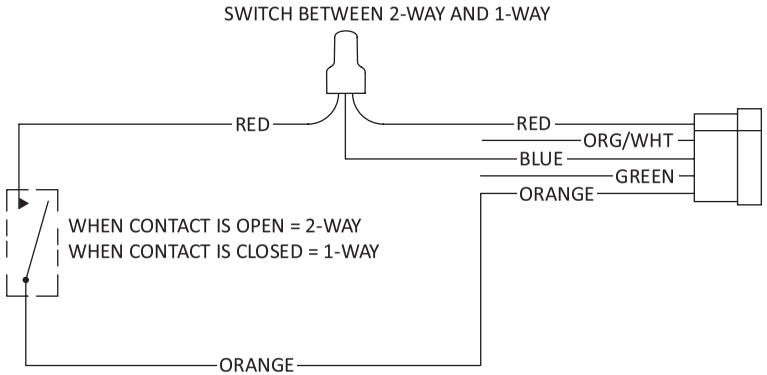
SECTION 11.9: Change Slide Door Mode with Remote Switch

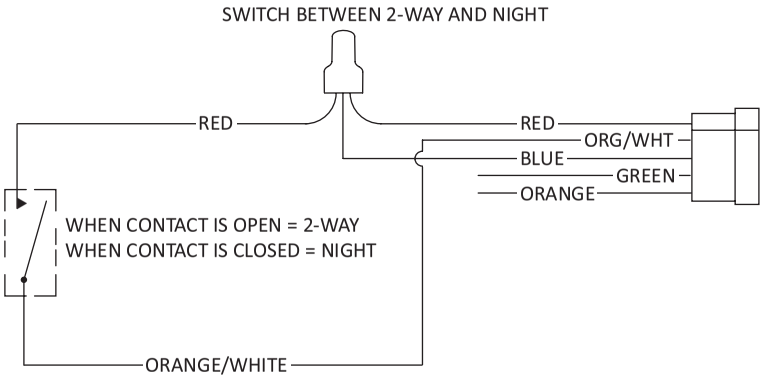
Option 1: Remove Rocker Switches

1. Remove the Rocker Switch.
2. Modify the Rocker Switch extension (P/N A-00967) shown below.
   a. Red and Blue wires must be connected for the door to operate.
   b. Other wires should be capped off to prevent shorting.

Option 2: Replace Rocker Switches with Key Switches

1. Replace the Rocker Switch with the Key Switch.
2. Keep the Key Switch in 2-Way.
3. Connect the Remote Switch to the Opus Control:
   - Terminals 11 and 14 for 1-Way.
   - Terminals 12 and 14 for Night.





Mode	M0 to Common Orange to Red Terminals 11 thru 14	M1 to Common Orange/White to Red Terminals 12 thru 14
Two Way (Auto)	Open	Open
One Way (Exit Only)	Closed	Open
Night	Open	Closed
Hold	Closed	Closed

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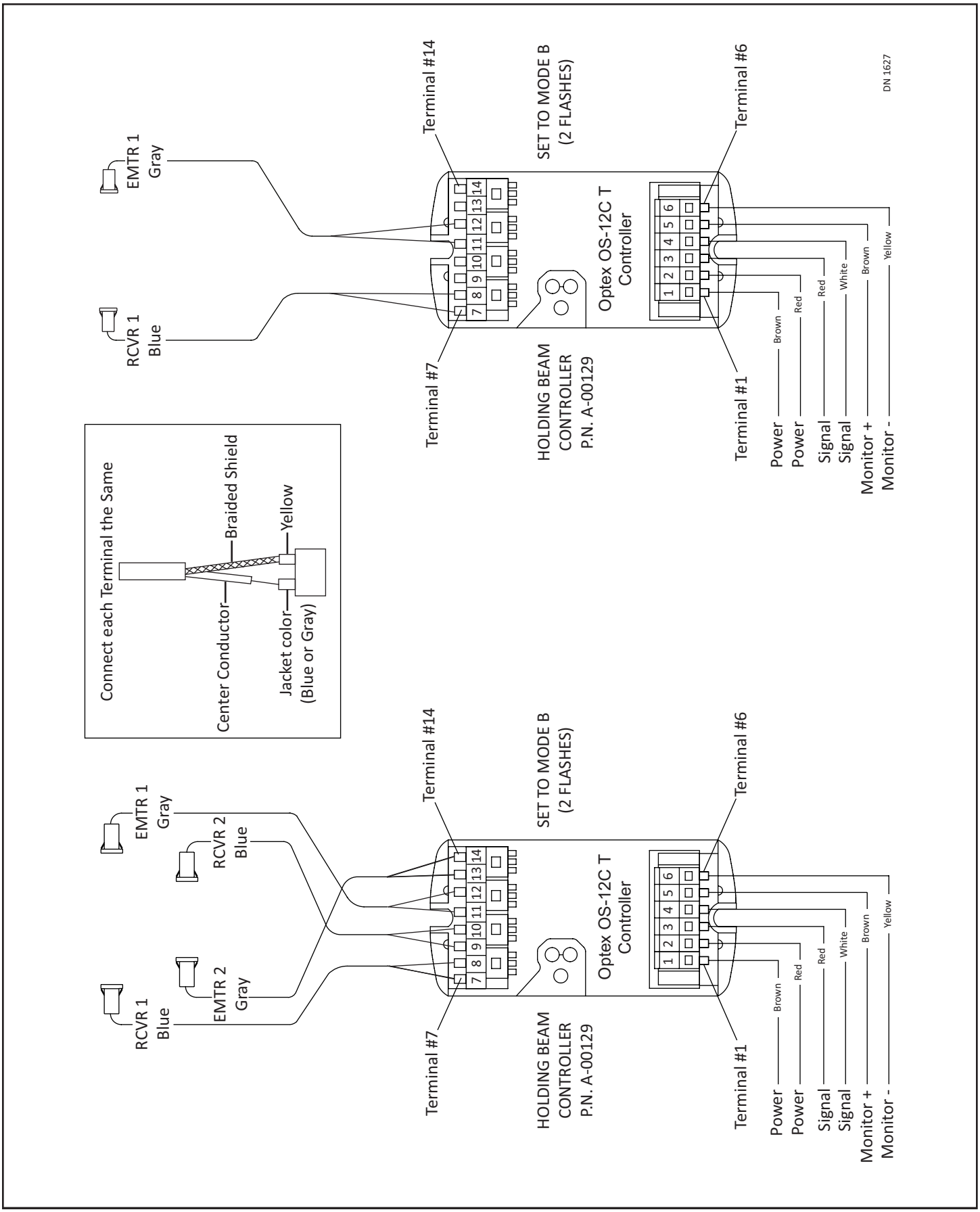
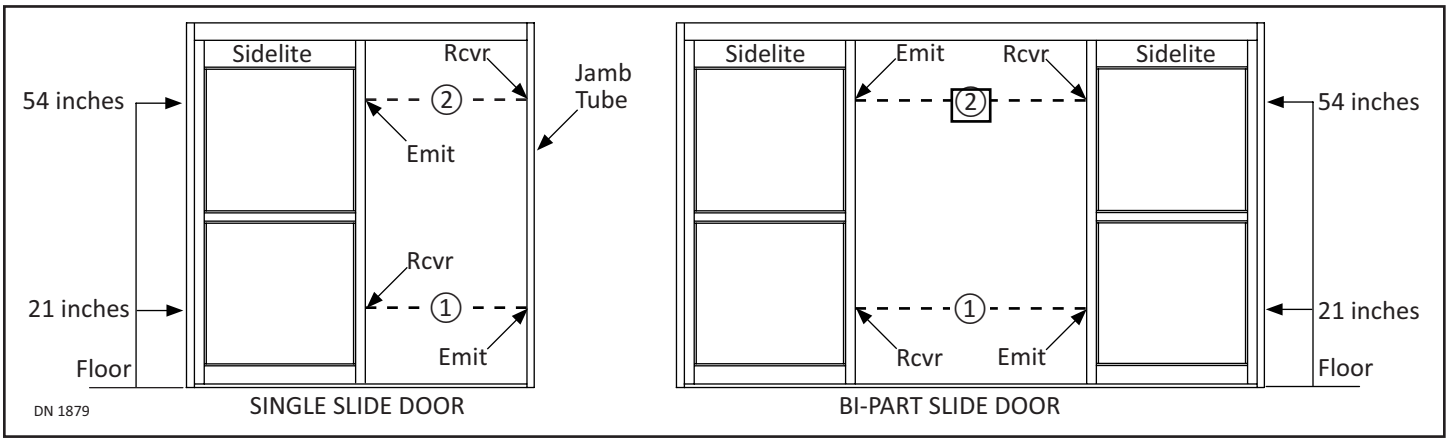
REMOTE DEVICE MUST BE A DRY CONTACT

SECTION 11.10: Infrared Holding Beams

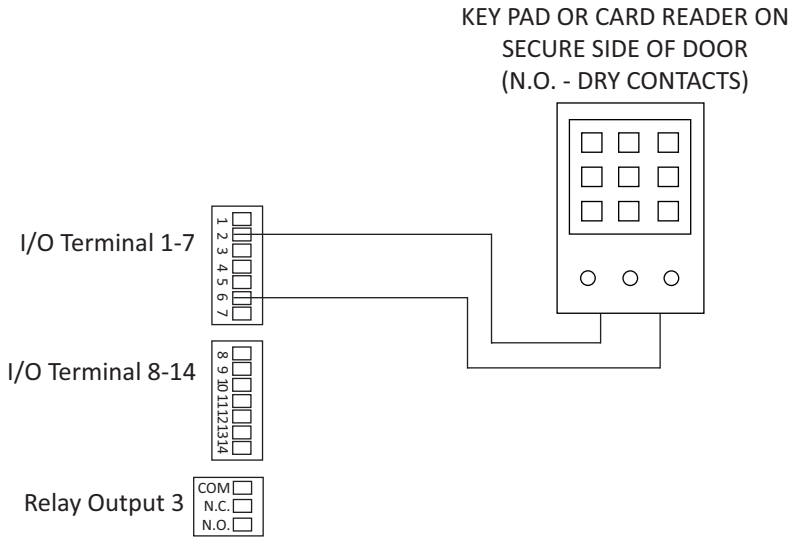


On GT-1175 Slide doors, the Optex OS-12C Module Infrared Beam is installed and wired at the NABCO factory. This unit is shipped complete with Emitter(s), Receiver(s) and a Control Box. Both the Emitter and Receiver are flush mounted on the inside, Slide door Jamb Tube and Sidelite Strike Stile, or both Strike Stiles, directly across from each other. The Rcvr/Emit are installed 21 inches from the floor. If deemed necessary, a second Rcvr/Emit may be installed 54 inches from the floor.

In the event a pedestrian or object crosses the threshold, breaking a beam, the beam controller will send a signal to the door control to hold the door open until the threshold is clear and the beam is restored.



SECTION 11.11: Wiring a Card Reader, or secure Activation Device, to 1175



Attention: Device must provide Normally Open, Dry Contacts (No Voltage).

1. Connect the Key Pad, Card Reader or Key Switches to Terminals 2 and 6 as shown.
2. Under INPUT SETTINGS, set INPUT SWL to ALL MODE ACTIVATION.
3. The Device will be enabled to activate the door regardless of which Rocker Switch Mode is selected (Auto, One Way, or Night).
   a. The Device will not activate if the Switch is in the OFF position.

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CHAPTER 12: TROUBLESHOOTING

Notice: If after troubleshooting a problem, and a satisfactory solution cannot be achieved, please call Nabco Entrances at 1-877-622-2694 between 8 am – 4:30pm Central time for additional assistance.

DO NOT leave any problem unresolved. If the door cannot be repaired immediately, turn off the door and leave it inoperable until repairs can be made. Advise the owner NOT to operate the door in the automatic mode until repairs are effected. NEVER leave a door operating without all safety detection systems operational.

Programming Issues	
Problem	**Possible Solution**
Control does not react to Activation signal	► At the main screen, confirm that "IN" or "EXT" highlights when an activation signal is applied. If not, check the wiring or the activation device. ► At the main screen, determine if "BA" is highlighted. If a 4-wire on/off/hold-open switch is being used, with a blue wire connected to terminal 8, then "Input BA Circuit" (found under "Input Settings") must be set to "Normally Closed". If a 3-wire switch is being used, or no switch is being used (nothing connected to terminal 8), then "Input BA Circuit" should be set to "Normally Open". ► At the main screen, if Status shows "Stopped" while the door is closed, and BA is not highlighted, turn off power for at least 4 seconds then turn on again. With the door still closed, status should now show "Fully Closed". ► Must navigate back to the main screen (as shown at right) for an activation signal to work.
Hard to manually open door	► Software Revision (up to, and including 18) • Re-enter "0" for "hold closed force" under "optional settings". The software on early Opus controls may suggest it's already set to "0", but does not act like it. Enter "0" again to fix it.
After manually opening door, the door stays open	► Software Revision (up to, and including 18) "Manual Open Function" is set to "No Action" and "Manual Open Sensitivity" is set to "0". If "No Action" is desired, change "Manual Open Sensitivity" to anything other than "0".
Closing functions do not work when opened manually	► Software Revision (up to 17) • Closing functions such as (speed, latch-check, power close), change "manual open function" to something other than "no action". "stop and close" is usually ideal.

Error Messages		
Opus Error Msg	**NET-HT Error Msg**	**Resolution**
Drive	Drive-Motor error Drive-A/D error	► Check all connections between the Control and Motor. ► Check Motor Fuse. ► Check Motor for open circuit, short circuit, or short to ground. ► It is possible electrical noise may cause a false error. If the error does not occur repeatedly then it's most likely not an issue
Encoder Error	Encoder Error	► Check all connections between the Control and Motor. ► It is possible electrical noise may cause a false error. If the error does not occur repeatedly then it's most likely not an issue.
MPU	MPU-RAM error MPU-ROM error MPU-Clock error MPU-Interrupt error MPU-SW reset error MPU-HW WDT error MPU-EEPROM error	► This could be a random error. • If the error occurs repeatedly, please replace the OPUS Control.

Error Messages		
Opus Error Msg	**NET-HT Error Msg**	**Resolution**
No Motor	Motor disconnection error	► Check all connections between the Control and Motor.
Thrml Warning	Thermal-on warning	► Check all connections between the Control and Motor. ► Cool down the motor, and adjust the recycle sensitivity and Open/ Close speed.
No Load	No load error	► Check operator (gear cracked, belt skipped).
Electrical Lock	Electrical lock error	► Check lock settings and wiring. ► Ensure lock delay is long enough, and not set to (After Lock Input). ► Ensure no programmable inputs are set to “Unlock Input” assuming there is no lock feedback.
61 Sensor	T3:61 sensor error	► Check Sensor wiring. ► Check Settings on Sensor and/or Control related to Sensor Monitoring. ► Try a new Sensor.
62 Sensor	T4:62 sensor error	
6B Sensor	T5:6B sensor error	
SWL Sensor	T6:SWL sensor error	