



MODEL 140 - Manual/150 - Power Single Sliding Fiberglass Door

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Safety Practices



This is a safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION

CAUTION used without a safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE

NOTE explains general information.

⚠ WARNING

Warning read these safety practices before installing, operating or servicing the SLIDING door. Failure to follow these safety practices could result in property damage, death or serious injury.

READ AND UNDERSTAND ALL WARNING LABELS AND OPERATING INSTRUCTIONS IN THIS MANUAL BEFORE OPERATING THE SLIDING DOOR. If you do not understand the instructions, ask your supervisor to teach you how to use the SLIDING door.

Safety Practices (cont'd)

1. Do not operate the door while under the influence of drugs or alcohol.
2. Do not use the door if it looks broken or does not seem to work properly. Advise your supervisor at once.
3. Stay clear of the door when it is moving
4. Keep hands, feet and head clear of the door at all times.
5. Do not operate the door with equipment, material or people directly inside door opening.
6. Disconnect power before performing any electrical or mechanical service, cleaning or other maintenance on the door. OSHA requires disconnect to be properly tagged and locked out during all maintenance or service of equipment. With the power supply disconnected, always verify using a volt meter.
7. All electrical troubleshooting or service must be completed by a qualified electrician or service person and must meet all applicable local, state, federal, international and other governing agency codes.
8. When it is necessary to service the control box with power on, USE EXTREME CAUTION. Do not place fingers or uninsulated tools inside the control box. Touching wires or other parts inside the enclosure may cause electrical shock, serious injury or death.
9. It is your responsibility to keep all warning labels and instructional literature legible, intact and kept with the door. Replacement labels and literature are available from ASI Doors, Inc. or its representatives.
10. If you have any questions, contact your supervisor or your local ASI Doors, Inc. representative for assistance.
11. Train all service and personnel using or near door on intended use(s) and operation of the door.
12. Failure to operate the door as intended, as described, or heed any warning may result in equipment damage, property damage, serious bodily injury or death.

Warranty Policy

ASI Doors (herein called “ASI”) warrants solely for the benefit of its customer that each door system manufactured by ASI (each a “Door System”) will be free from defects in material and manufacture for a period of one (1) year from the date of original shipment by ASI. The following models receive a similar two (2) years from date of shipment warranty: 109, 209, 120-125, 1240-125-, 1240SS-1250SS, 1260-1270, 1260SS-1270SS, 130-135, 140-150, 160-170, 220-225, 220SS-225SS, 230-235, 230SS-235SS. In all instances warranty labor is covered for a period of one (1) year from the date of original shipment.

The foregoing limited warranty shall not apply to defects that result from improper installation, abuse, misuse, alteration, modification, or failure to maintain the Door System in accordance with the ASI Owner’s Manual. Periodic maintenance and adjustment of the Door System as described in the ASI Owner’s Manual are the sole responsibility of the customer. All claims for defects must be made to ASI within thirty (30) days after the defect is discovered or should, with reasonable care, have been discovered. **THE FOREGOING LIMITED WARRANTY CONSTITUTES THE EXCLUSIVE WARRANTY OF ASI WITH RESPECT TO THE DOOR SYSTEM. ASI EXPRESSLY DISCLAIMS ALL OTHER GUARANTEES OR WARRANTIES—WHETHER EXPRESSED, IMPLIED, OR STATUTORY, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

If a Door System does not comply with the foregoing limited warranty, and a claim is made by customer within the warranty period, ASI will, at the option of ASI, either repair or replace any defective equipment or parts free of charge and pay the reasonable labor costs to repair or replace the defective equipment or parts if within the defined warranty period. The remedy of repair or replacement shall be the exclusive and sole remedy for any breach of the foregoing limited warranty.

ASI SHALL NOT IN ANY EVENT BE LIABLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING WITHOUT LIMITATION ANY LOST PROFITS, ARISING FROM THE SALE OR USE OF THE DOOR SYSTEM, OR FROM ANY OTHER CAUSE WHATSOEVER, WHETHER THE CLAIM GIVING RISE TO SUCH DAMAGES IS BASED UPON BREACH OF WARRANTY (EXPRESSED OR IMPLIED) BREACH OF CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF A PARTY HAS BEEN ADVISED OF THE POSSIBILITY THEREOF, AND REGARDLESS OF ANY ADVISE OR REPRESENTATION THAT MAY HAVE BEEN RENDERED BY ASI CONCERNING THE SALE OR USE OF THE DOOR SYSTEM.

At ASI’s request, customer shall return to ASI for inspection any Door System for which a warranty claim has been made, F.O.B. ASI’s facility with freight prepaid. The customer is responsible for any removal costs.

The customer shall comply with the following procedures in filing a warranty claim with ASI:

1. Notify ASI of any and all defects in writing with photographic evidence. ASI will review the warranty request and issue a Returns Merchandise Authorization (RMA) form if the defective parts need to be returned to ASI for inspection and verification. The RMA form must accompany any materials returned for warranty consideration.
2. All replacement parts or equipment will be invoiced to the customer. Upon verification by ASI that the Door System is defective, ASI will issue a full credit to customer for the replacement parts or equipment.
3. If outside labor is needed to install the replacement parts or equipment, ASI requires a written estimate of the labor charges in advance so ASI may approve the labor charges and issue a purchase order. ASI will not accept any labor charges unless previously approved in writing and accompanied by the ASI purchase order number.

(Rev 12/21)

Crates and Contents

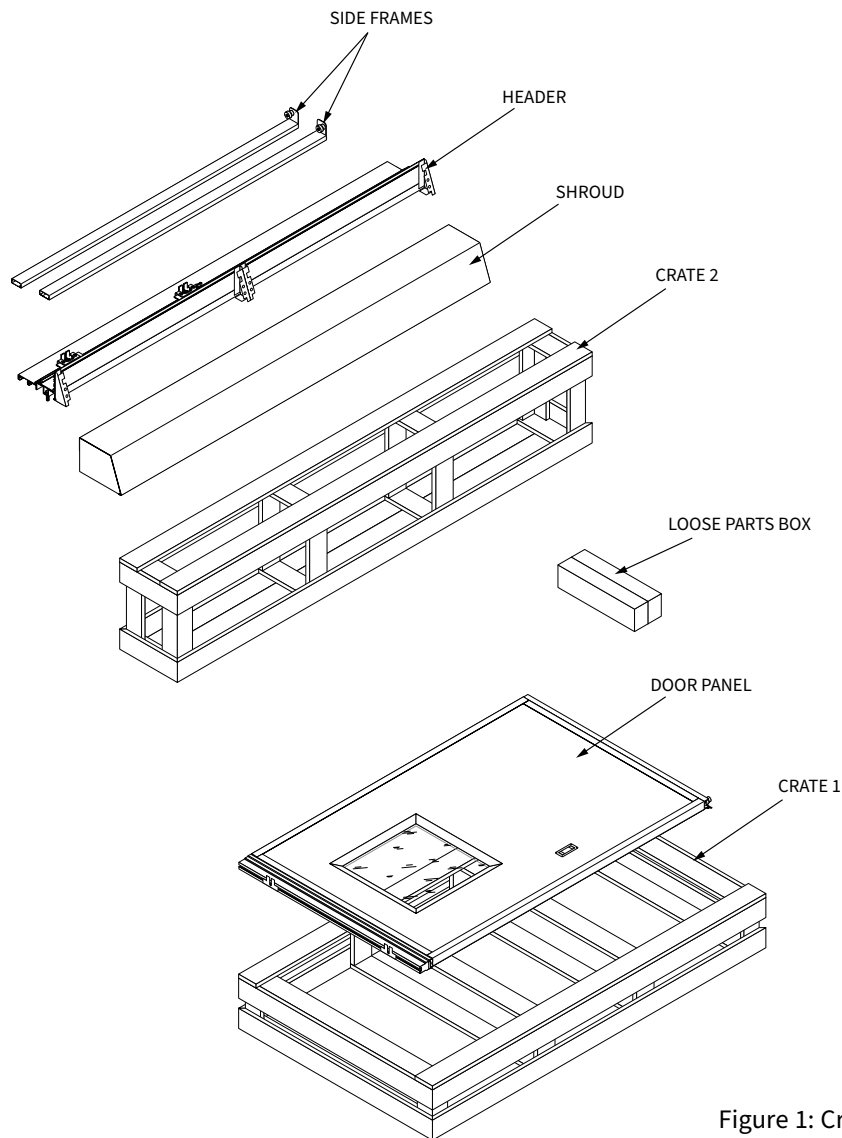


Figure 1: Crates and Contents

Upon receipt of the shipment, check that you have received the correct number of pieces as shown (figure 1). Crate will contain the side-covers, the header assembly, the loose parts box, and control box. For your protection, note any damages or shortages on the carrier's bill of lading before signing the bill for receipt.

The installation of this door will require at least a two man crew and a fork-lift. Select a fork-lift with lifting height based upon the height of the door, plus a minimum additional two feet.

NOTE

Because of variances in the construction of walls on which the door will be mounted, fasteners are not supplied. For proper anchoring of the door, we recommend the use of thru-bolts. **DO NOT** remove door sections from crate until you encounter the step in which they are to be installed.

Loose Parts

| Description | Qty. |
|----------------------------|------|
| Installation Instructions | 1 |
| Warning Nameplate Assembly | 2 |
| Misc. Hardware | - |
| Misc. Activation Devices | - |

For installation of a 140 manual – single slide door turn to page 8.

For installation of a 150 power – single slide door turn to page 16.

Door Measurements

1. Measure door opening to verify door dimensions (Figure 3). Based upon dimensions in figure 3, determine that door will have sufficient wall space to open. Locate side frames relative to the sides of the opening as shown in figure 2.

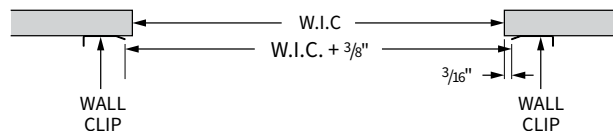


Figure 2: Wall Clip Position

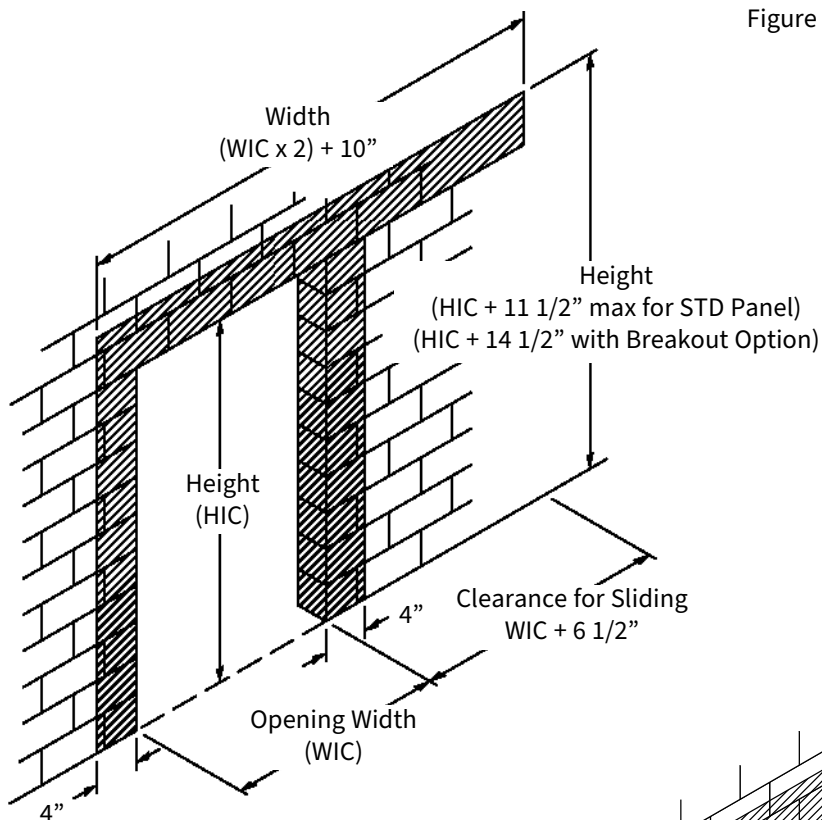


Figure 3: Door Measurements

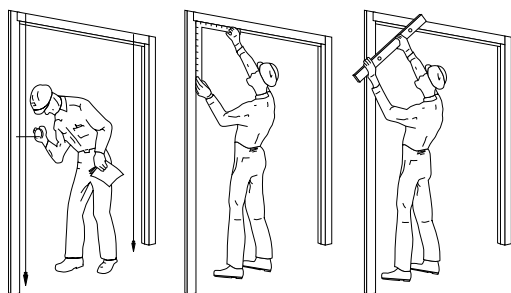


Figure 4: Checking Plumb and Square

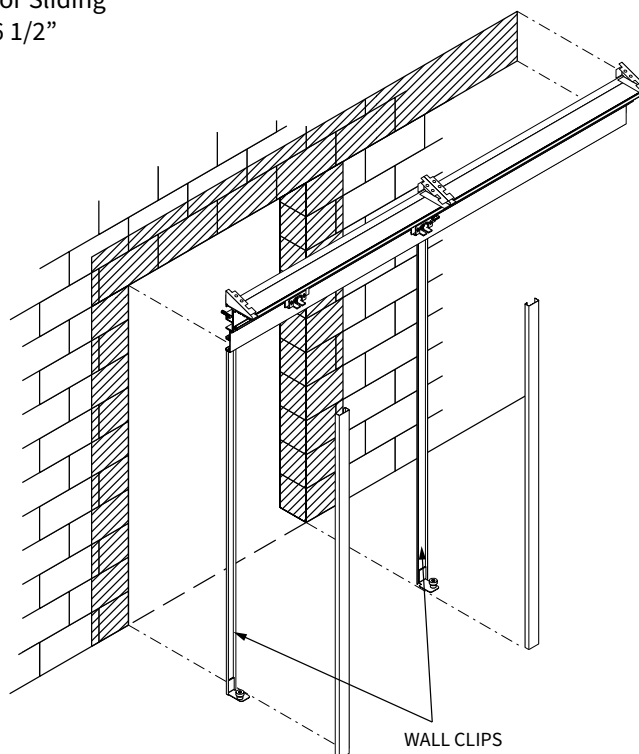


Figure 5: Mounting Header and Face Frames

Frame and Header Assembly

1. Attach the wall clips to the wall flush with the edge of the opening, leaving the bottom 2 bolt holes open for the floor hardware (Page 7, figure 2).

NOTE

Note recheck wall clips to be sure they are plumb and level. Make any necessary adjustments.

2. Attach the left, right or both bottom roller brackets to the wall through the two holes in the bottom of wall clip (Figure 6).

NOTE

Note doors with the optional breakout egress will not have a bottom roller bracket to secure the leading edge of the panel when closed.

3. Attach the face frames with 2 screws per frame (Figure 7).

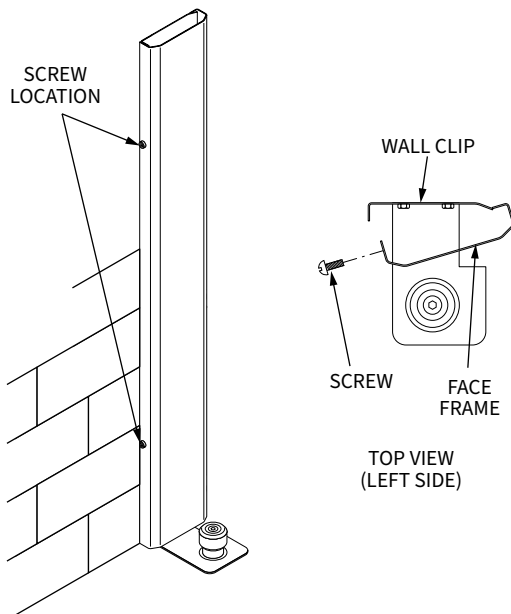


Figure 7: Fastening Face Frame Covers to Wall Clips

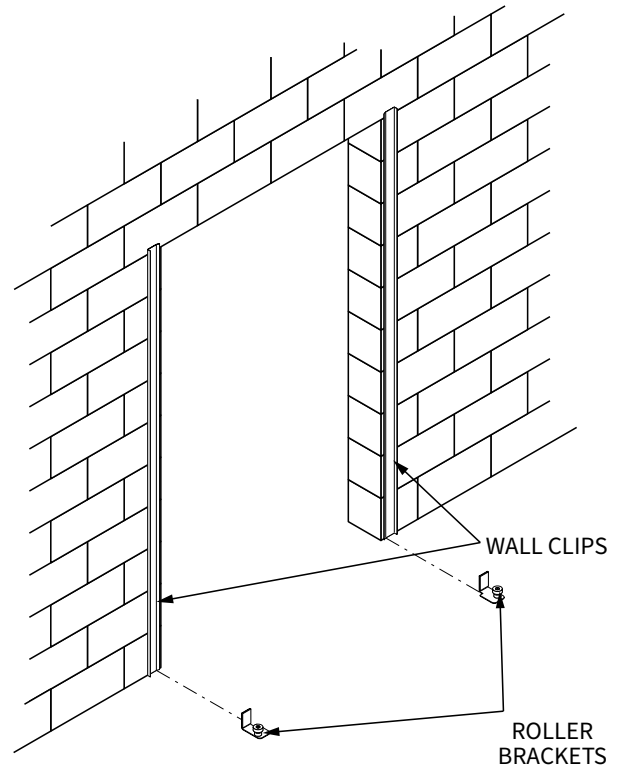


Figure 6: installing wall clips and roller brackets (Bottom roller brackets not present for leading edge on doors with breakout egress option).

Header Installation

⚠ WARNING

Warning when mounting rail, keep personnel out of the area below the header until the rail is secured to the wall. Failure to do so could result in property damage, death or serious injury.

NOTE

Note we strongly recommend that thru-holes be drilled for proper anchoring of the door to the wall.

⚠ CAUTION

Caution improper installation of anchoring devices, installation into aged or unsound concrete or mounting to a non-plumb wall without proper shimming; could result in premature product wear or product failure. Failure to properly install equipment could result in property damage.

4. For a right hand slide, position the left edge of the header (w/o shroud) flush with the left clip.
For a left hand slide, position the right edge of the header (w/o shroud) flush with the right edge of the wall clip.
5. Mount the header to the wall. Use the holes provided in the header to mount it to the wall (Page 12, Figure 9.)

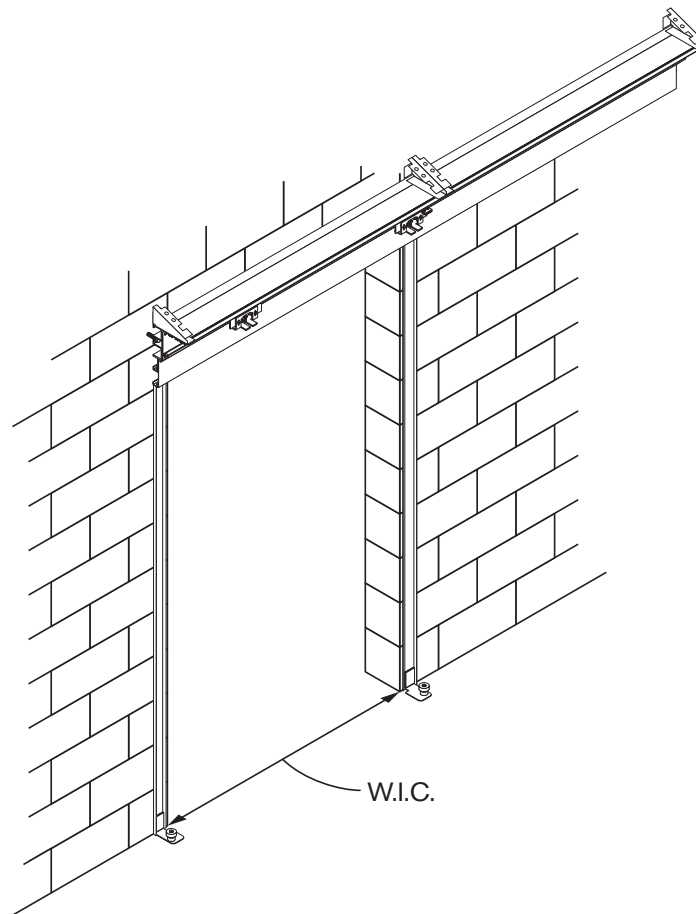


Figure 8: Positioning the Header

Panel Installation and Adjustment

- 1 Loosen the two horizontal panel adjusting bolts on top of each panel(s). These bolts will slide between the two forks on the panel trolley bracket in the header (Figures 9 & 10B).
- 2 Measure the distance between the mounting bolts on the panel and manually position the panel trolleys the same distance apart in the header.
- 3 Manually position the bottom of the panel over the guide roller. Then move the panel into position so the two adjusting bolts are located on the forks of the panel trolleys.
- 4 Position the panel horizontally to provide a consistent seal and tighten the horizontal panel adjusting bolts.
- 5 Back off the roller truck locking bolts on the panel trolleys and use the vertical panel adjustment bolts to position the panel at the desired height. The panel gasket should have contact with the floor for proper sealing. Tighten the locking bolts to secure the panel.

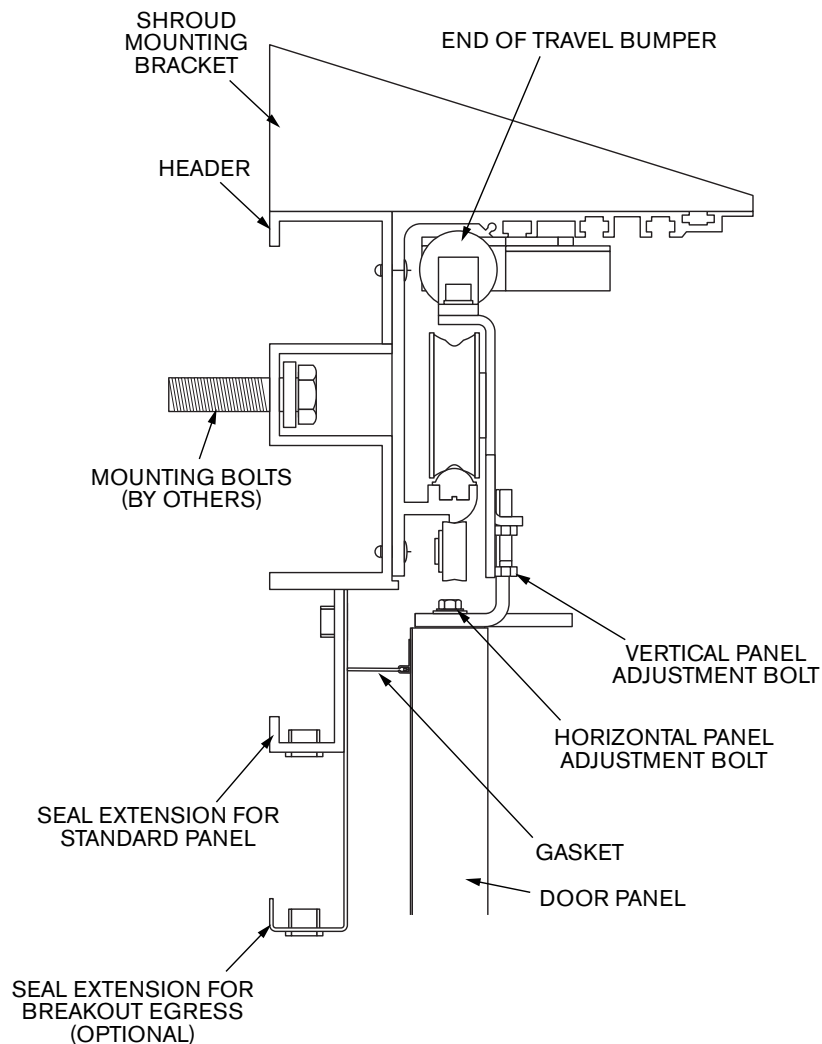


Figure 9: Attaching Panel to Header

Panel Installation and Adjustment Continued

6. Adjust jump roller to have approx. .020" Gap from underside of rail (figure 10a).
7. Manually operate the door and visually inspect to ensure the gasket is making contact around the perimeter of the opening. Make any adjustments necessary to maintain a seal.
8. Manually operate the door panels open and closed. Verify that door panels move freely, clear the opening, and contact bumpers at the end of open and close travel.
9. If bumpers require adjustment, loosen the socket head set screws on the bumper bracket and slide the bumper into position as needed. Lock the set screws down.

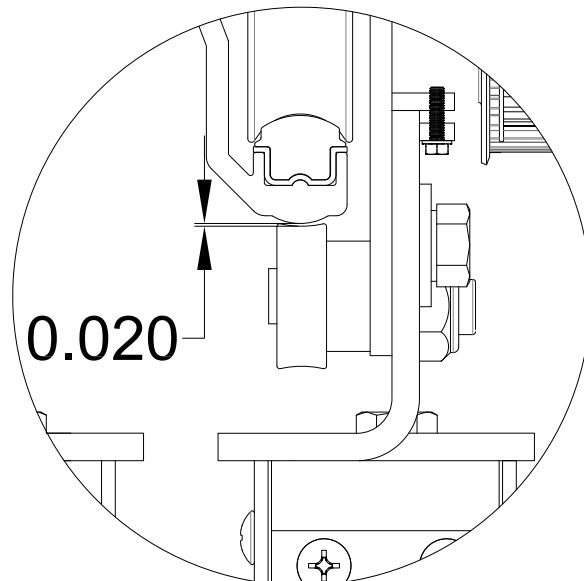


Figure 10A: Adjusting Jump Roller Clearance

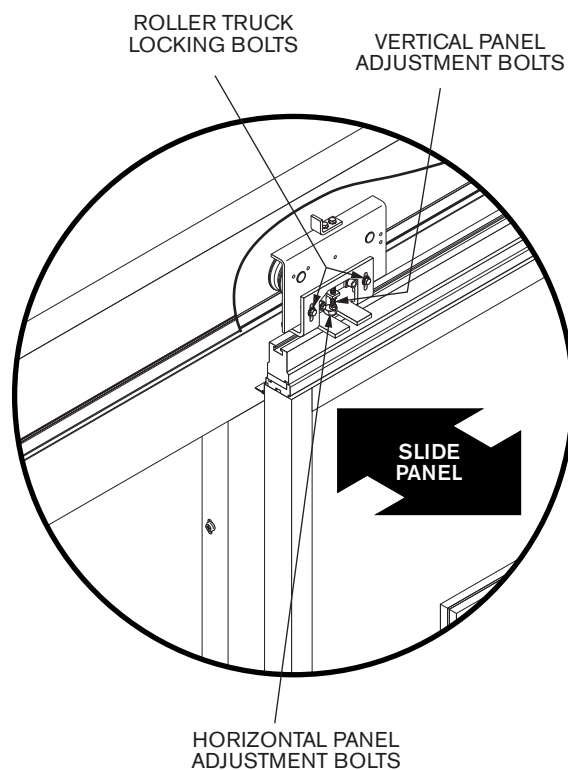


Figure 10B: Adjusting Bolt Locations

NOTE

NOTE minimal contact is all that is necessary to provide a tight seal. This will also extend the life of the gasket.

Door Measurements

1. Measure door opening to verify door dimensions (Figure 12). Based upon dimensions in Figure 12, determine that door will have sufficient wall space to open. The side frames will fit flush to the edge of the opening.

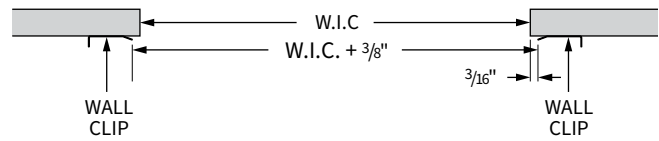


Figure 11: Wall Clip Position

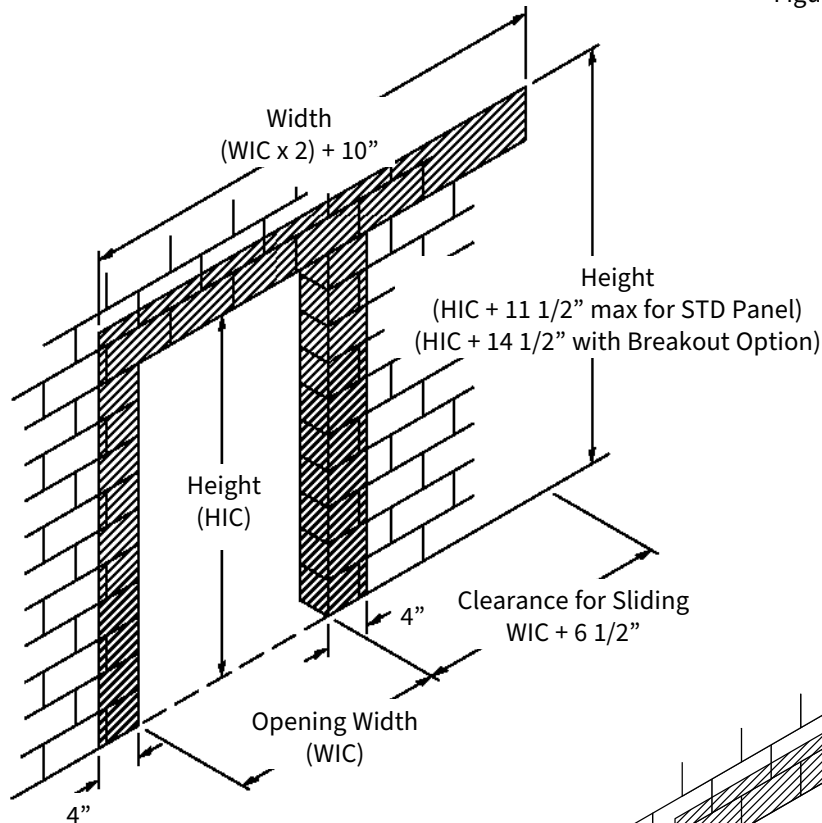


Figure 12: Door Measurements

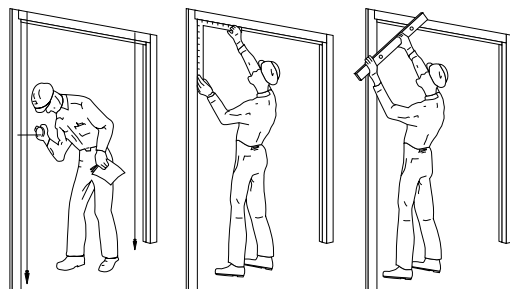


Figure 13: Checking Plumb and Square

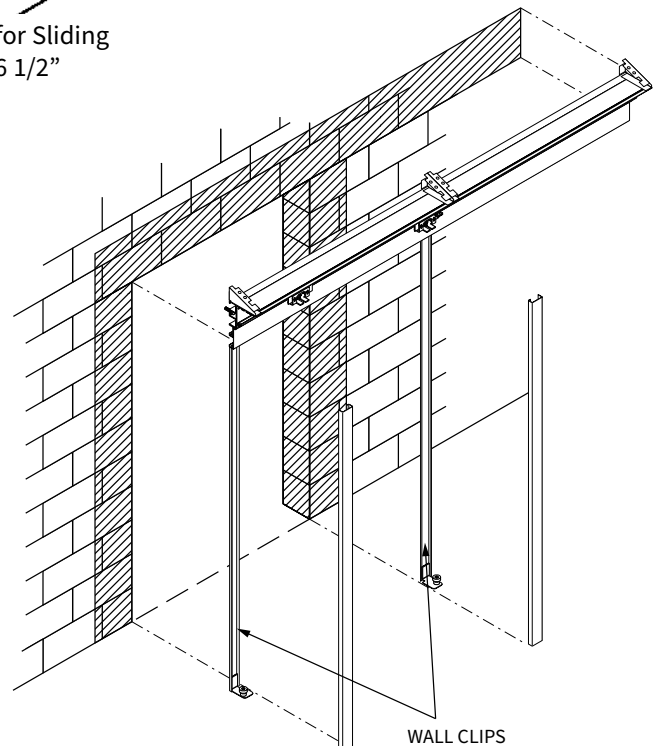


Figure 14: Mounting Header and Face Frames

Frame and Header Assembly

1. Attach the wall clips to the wall flush with the edge of the opening, leaving the bottom 2 bolt holes open for the floor hardware (Page 15, Figure 11).

NOTE

Note recheck wall clips to be sure they are plumb and level. Make any necessary adjustments.

2. Attach the left, right or both bottom roller brackets to the wall through the two holes in the bottom of wall clip (Figure 15).

NOTE

Note doors with the optional breakout egress will not have a bottom roller bracket to secure the leading edge of the panel when closed.

1. Locate photoeye cables on back of header and identify each pair of wires by its location near the grommets in the bottom edge of the header. You will be installing one set of an emitter and receiver on each side frame. It must match up with the corresponding emitter and receiver on the other side frame. Remove the emitter and receiver heads from each wire for installation into face frames (Figure 16).

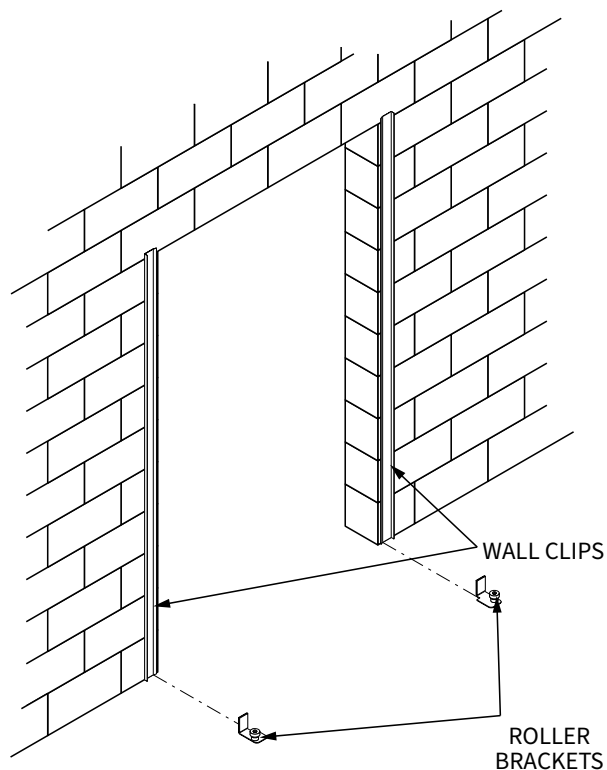


Figure 15: installing wall clips and roller brackets (Bottom roller brackets not present for leading edge on doors with breakout egress option).

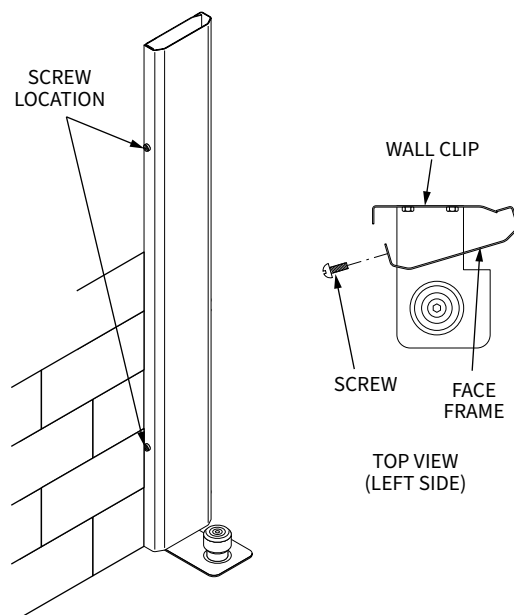


Figure 16: Fastening Face Frame Covers to Wall Clips

⚠ WARNING

Warning when mounting rail, keep personnel out of the area below the header until the rail is secured to the wall. Failure to do so could result in property damage, death or serious injury.

NOTE

Note we strongly recommend that thru-holes be drilled for proper anchoring of the door to the wall.

⚠ CAUTION

Caution improper installation of anchoring devices, installation into aged or unsound concrete or mounting to a non-plumb wall without proper shimming; could result in premature product wear or product failure. Failure to properly install equipment could result in property damage.

4. Position the photoeyes in the face frames in pairs of emitter and receiver. The wires are color-coded black or gray. Emitters are gray and receivers are black. Match wire colors and install the photoeyes as shown in Figure 18, (Page 18), and Figure 24 (Page 22).
5. Use self-adhesive clamps and ties provided to hold the wiring in place and contain any extra length of wire.
6. For a right hand slide, position the left edge of the header (w/o shroud) flush with the left edge of the wall clip (Figure 17).

For a left hand slide, position the right edge of the header (w/o shroud) flush with the right edge of the wall clip.

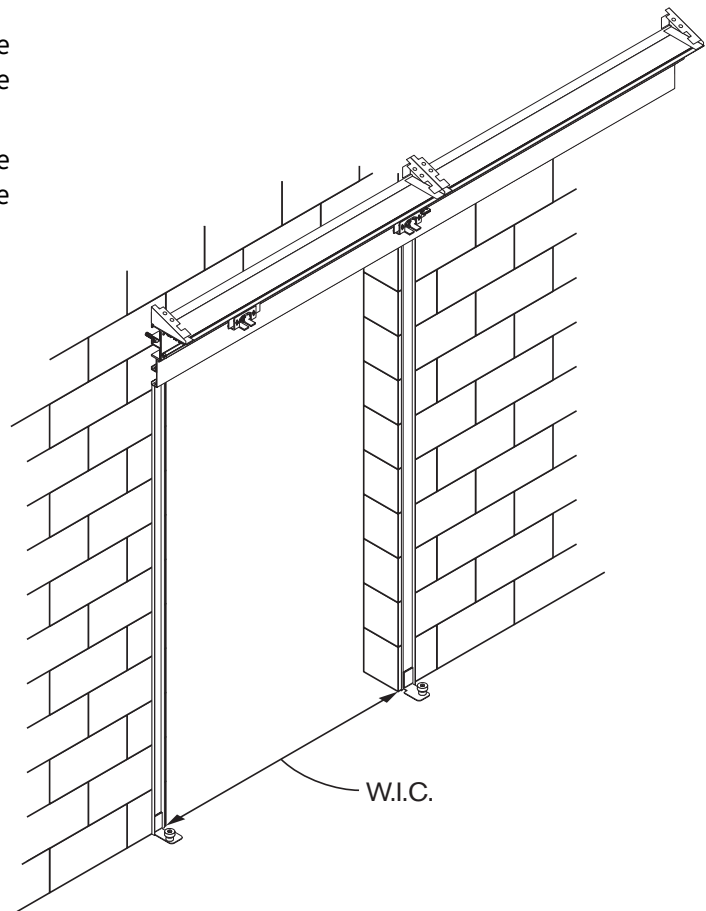


Figure 17: Positioning the Header

7. Make sure the photoeye cables come out of holes provided in the bottom of the header and do not get cut or pinched during positioning. Mount photoeye sensors as shown in Figure 18. Pay attention to colors of photoeye wires (Figure 18), and Figure 24 (Page 22).
8. Mount the header to the wall. Use the holes provided in the header to mount it to the wall (Page 19, Figure 19).

NOTE

Note we strongly recommend that thru-holes be drilled for proper anchoring of the door to the wall.

⚠ CAUTION

Caution improper installation of anchoring devices, installation into aged or unsound concrete or mounting to a non-plumb wall without proper shimming; could result in premature product wear or product failure. Failure to properly install equipment could result in property damage.

9. Connect the power cord to the 115VAC grounded power inlet on the TCP-51 CONTROL UNIT (Page 23, Figure 25). Verify that the voltage setting on the control unit is set to 115VAC. Then route the cord through the header and out to the power source.

NOTE

Note DO NOT plug into 115 VAC power at this time.

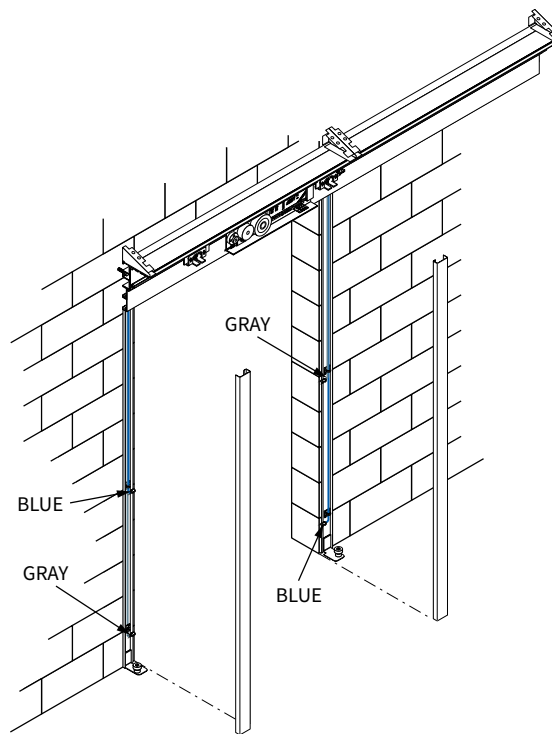


Figure 18: Connecting to Photoeyes

10. Make sure the edges of all routing holes of the power cord are smooth and have any burrs removed. Use tie wraps or clips to make sure power cord is secure inside the header, and will not contact any moving parts inside the header.

Panel Installation and Adjustment

1. Loosen the two horizontal panel adjusting bolts on top of each panel(s). These bolts will slide between the two forks on the panel trolley bracket in the header (Figures 19B & 20).
2. Measure the distance between the mounting bolts on the panel and manually position the panel trolleys the same distance apart in the header.
3. Manually position the bottom of the panel over the guide roller. Then move the panel into position so the two adjusting bolts are located on the forks of the panel trolleys.
4. Position the panel horizontally to provide a consistent seal and tighten the bolts.
5. Back off the locking bolts on the panel trolleys and use the vertical panel adjustment bolts to position the panel at the desired height. The panel gasket should have contact with the floor for proper sealing. Tighten the locking bolts to secure the panel.
6. Adjust Jump Roller to have approximately 0.020" gap from underside of rail (Figure 19A).

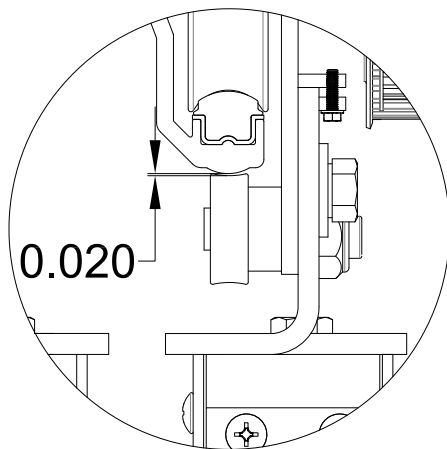


Figure 19A : Adjusting Jump Roller Clearance

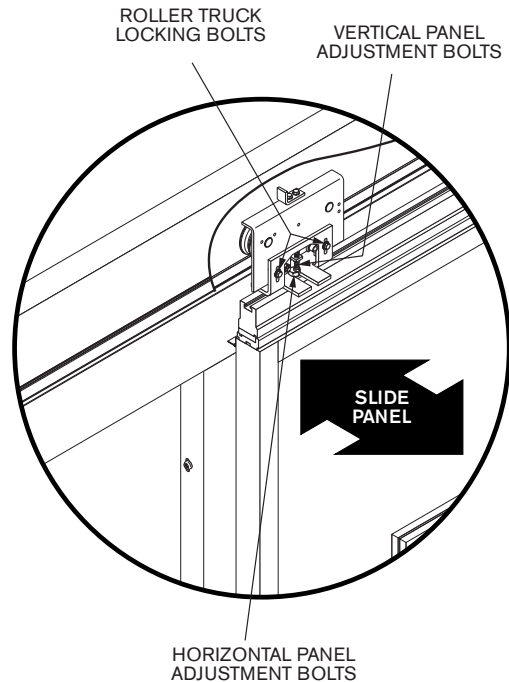


Figure19B: Adjusting Bolt Locations

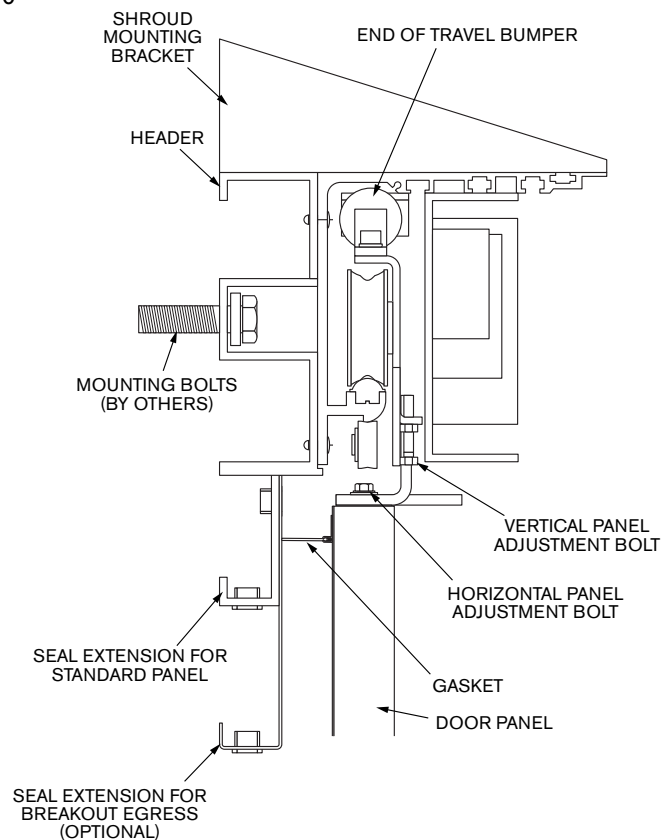


Figure 20: Attaching Panel to Header

Panel Installation and Adjustment Continued

7. Manually operate the door and visually inspect to ensure the gasket is making contact around the perimeter of the opening. Make any adjustments necessary to maintain a seal.

NOTE

Note minimal contract is all that is necessary to provide a tight seal. This will also extend the life of the gasket.

8. Manually operate the door panels open and closed. Verify that door panels move freely, clear the opening, and contact bumpers at the end of open and close travel.
9. If bumpers require adjustment, loosen the socket head set screws on the bumper bracket and slide the bumper into position as needed. Lock the set screws down.

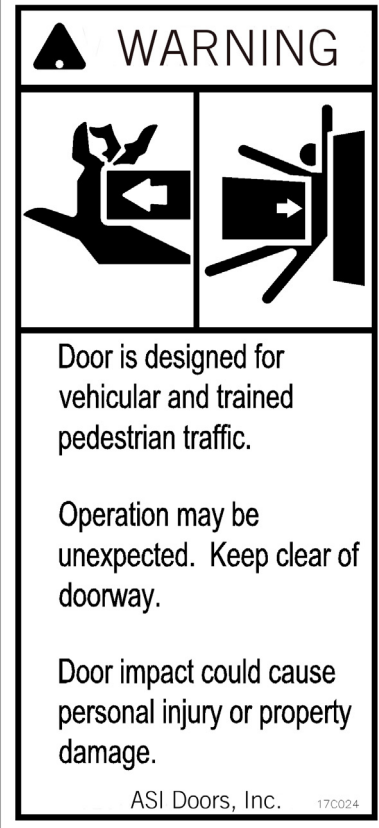


Figure 21: Warning Label

Warning Label Installation

1. Install warning label (Figure 21) to wall as shown in Figure 22.

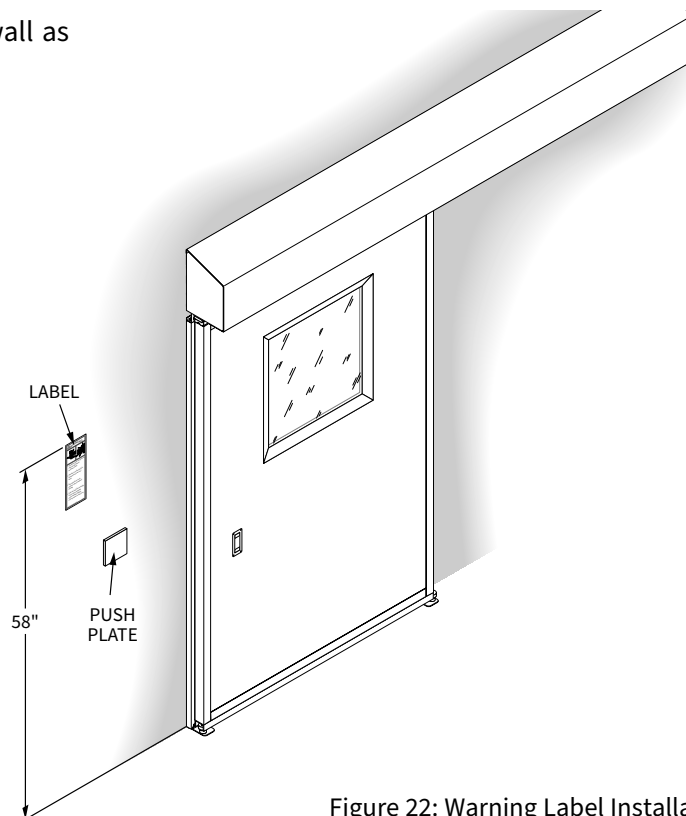


Figure 22: Warning Label Installation

⚠ WARNING

WARNING control box contains HIGH VOLTAGE! The following procedures should be performed by qualified electrical personnel only. Wiring must meet all local, state, federal and international, or other governing agency codes. Failure to do so could result in death or serious injury.

The microprocessor control system is designed specifically for ASI Doors. The microprocessor programmed self-diagnostic features convey both door status and troubleshooting indicators through individual letter & number codes. Additional inputs are available for automatic door opening. Troubleshooting time is significantly reduced since the letter & number codes direct you to specific problems. Initial electrical hookup is made easy with conveniently located plug-in type 115 VAC power connectors (shipped in loose parts box).

INPUT POWER

The nominal supply voltage for the control panel is 115 VAC. Be sure to verify this voltage supply is available. The control unit provides 24 VDC for other sensing and electrical devices.

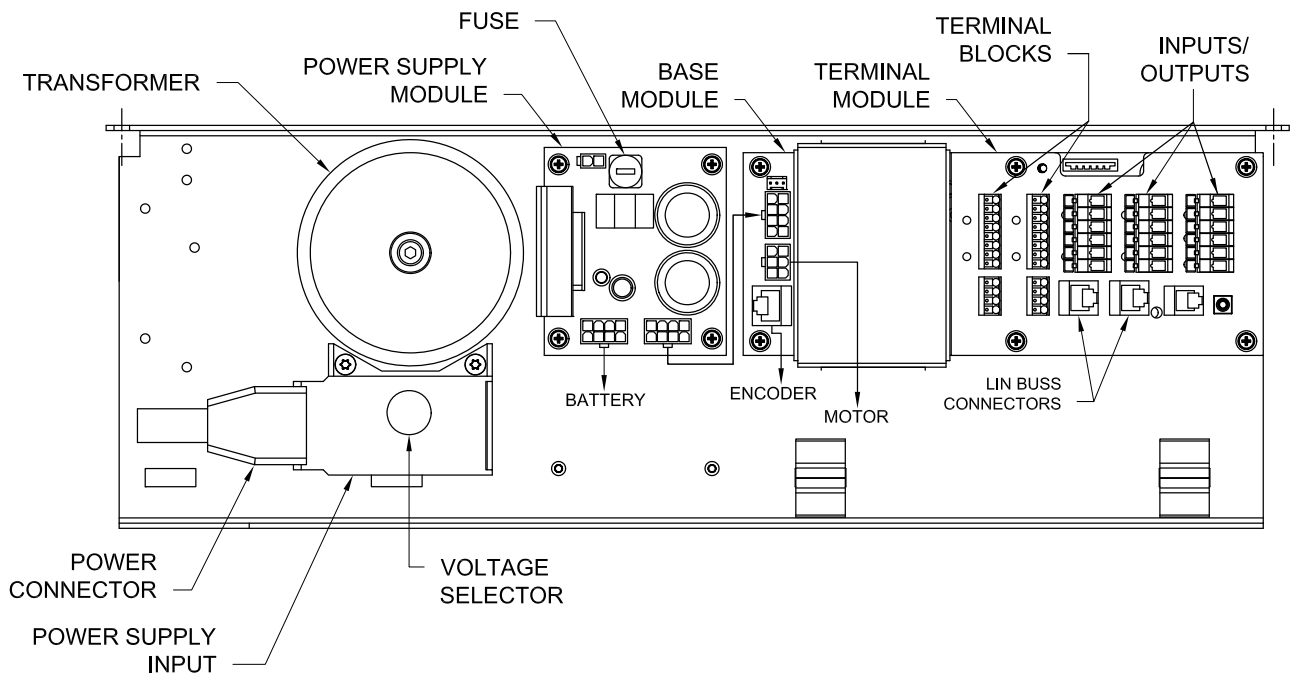


Figure 27: 2301/2401 Operator



Figure 24: Operator Wiring Schematic

Note Standard schematic show. Refer to drawing shipped with your specific door.

⚠ WARNING

WARNING control box contains HIGH VOLTAGE! The following procedures should be performed by qualified electrical personnel only. Wiring must meet all local, state, federal and international, or other governing agency codes. Failure to do so could result in death or serious injury.

MAIN POWER CONNECTION: The door is supplied with a grounded power cord connector.

1. Check that all edges of feed-through holes for the power cable are smooth and have no burrs.

⚠ WARNING

WARNING Disconnect power at the fused disconnect during all electrical or mechanical service. Disconnect must be properly locked out during maintenance or service of equipment. Failure to disconnect power could result in death or serious injury.

2. Check the correct setting of the voltage selector (Figure 25).

NOTE

Note power cable NOT supplied by ASI.

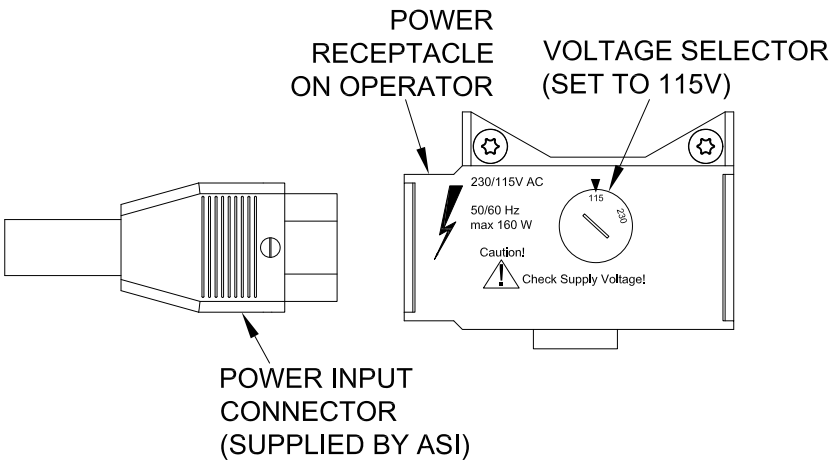


Figure 25: Power Input Connection

NOTE

Note power cable NOT supplied by ASI.

REVERSING PHOTOEYE:

1. Confirm the wiring to the photo eyes is intact as shown in Figure 30.

NOTE

Note the length of the photoeye cables must not exceed 19'. Do not extend the cable supplied by ASI!

2. Confirm jumper for the emergency stop switch is installed as shown in Figure 30.

NOTE

Note remove the jumper between D1 and D2 if emergency stop switch is used.

3. Connect wiring from wall mount push plates as shown in Figure 31.

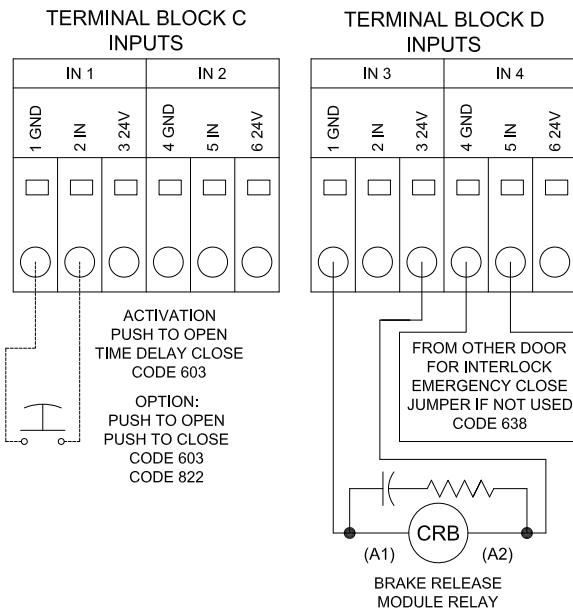


Figure 27: Electrical Input Connections

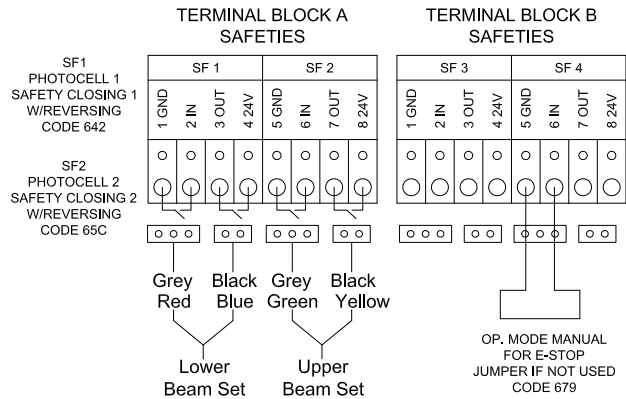


Figure 26: Photoeye & E-Stop Connections

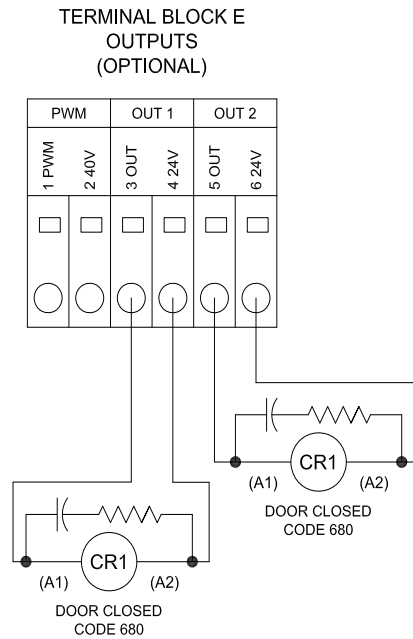


Figure 28: Electrical Output Connections

Electrical Equipment

OVERALL DRIVE/CONTROL SYSTEM 2301/2401 Control Unit:

This controller is a self-contained door operating unit with a power transformer, motor, brake and clutch. It opens and closes the door panels with a timing belt drive and provides controlled acceleration and deceleration of the door panels for long drive life. It also provides 24v dc to operate optional activating devices. The microprocessor has self-diagnostic capabilities to alert the user to any operational problems.

Function Control Panel: this panel which is mounted inside the header provides a touch pad for adjusting operating parameters of the door opening and closing cycle.

CONTROL INPUTS

1. The 2301/2401 control has a limited number of wiring inputs, since it needs no limit switches or reversing edge wiring. The terminal strip that accepts external wiring is located at the right side of the control.
2. If the photoeye is operating properly a green LED is on and it will go off if the beam is interrupted or connected incorrectly.
3. The function control panel provides the means to make adjustments to the operating parameters of the door. Since it is remotely located from the control, it has a cable that plugs into a terminal strip on the right side of the control.

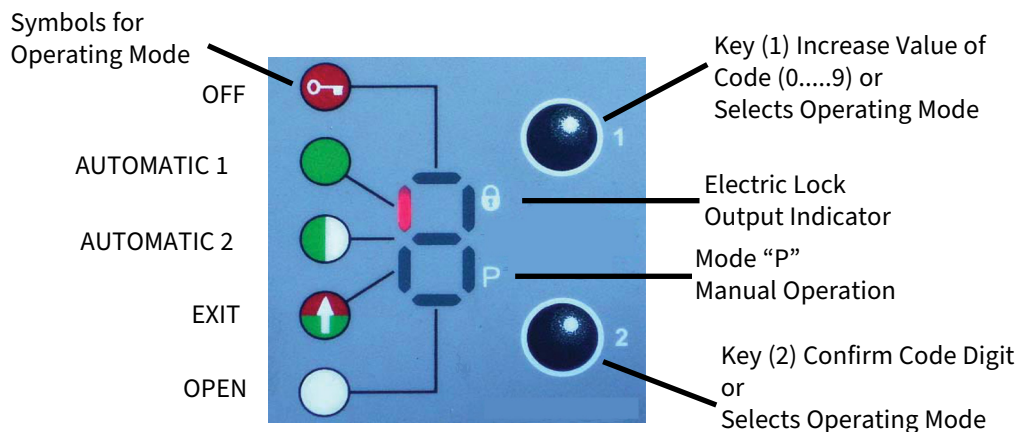
⚠ WARNING

Warning read and understand the start-up procedure in this manual before attempting to power-up the door. Failure to do so could result in damage to the door, personal injury and will nullify all warranties.

NOTE

Note all reversing photoeyes have been tested at the factory and require only field connection.

1. Position the door in the closed position.
2. Locate the function control panel. Plug the connector into the receptacle in the control. Secure the excess cable and bracket so that the door can be operated without contacting the bracket or excess cable.
3. Turn on the power disconnect or plug in the power cord into a grounded outlet. Make sure the cord is routed to prevent contact with any moving parts.
4. Locate and familiarize the function keypad. The function keypad is used for all programming.



Start-Up

Enter Code "111" to Gain Access to Programming:

(Code "111" needs to be performed after 10 minutes of programming inactivity)

| | | |
|--------------------------------------|----------|--|
| Press both keys simultaneously until | C | is displayed. |
| Press Key 2 and | 0 | is displayed. |
| Press Key 1 until | 1 | is displayed and press Key 2 to confirm. |
| | 0 | is displayed. |
| Press Key 1 until | 1 | is displayed and press Key 2 to confirm. |
| | 0 | is displayed. |
| Press Key 1 until | 1 | is displayed and press Key 2 to confirm. |
| | P | is displayed, Operator is ready to be programmed |

Note: The next several steps will walk you the calibration of the door.

5. Enter the code: P030

To Enter Code "030" to Calibrate Door Limits:

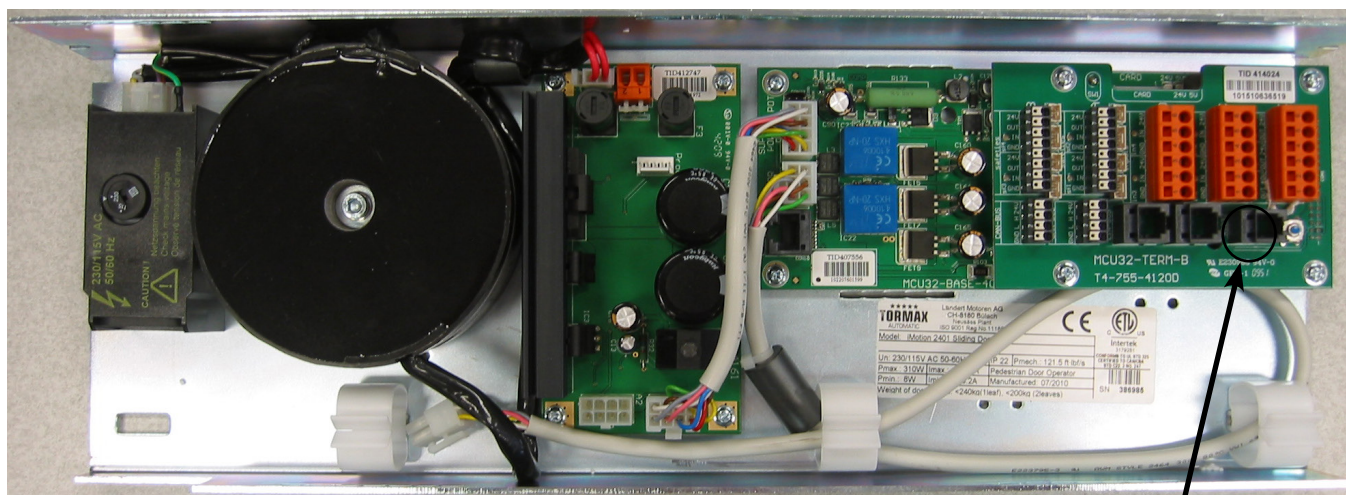
| | | |
|--------------------------------------|----------|--|
| Press both keys simultaneously until | P | is displayed. |
| Press Key 2 and | 0 | is displayed and press Key 2 to confirm "0". |
| Press Key 1 until | 3 | is displayed and press Key 2 to confirm. |
| A slow flashing | 0 | is displayed and press Key 2 to confirm. |
| | P | is displayed, Operator is ready for additional programming |

6. Enter the code: P036

To Enter Code "036" to Calibrate Door Panel Weight:

| | | |
|--------------------------------------|----------|--|
| Press both keys simultaneously until | P | is displayed. |
| Press Key 2 and | 0 | is displayed and press Key 2 to confirm "0". |
| Press Key 1 until | 3 | is displayed and press Key 2 to confirm. |
| A slow flashing | 0 | is displayed. |
| Press Key 1 until | 6 | is displayed, and press key 2 to confirm. |

Once a beep is heard, and AP is displayed, it is necessary to push the small blue SW2 button on the far right of the controller. This will open the door and it will time out and close. Continue to open the door using the blue SW2 button after each close cycle.



SW2 Button

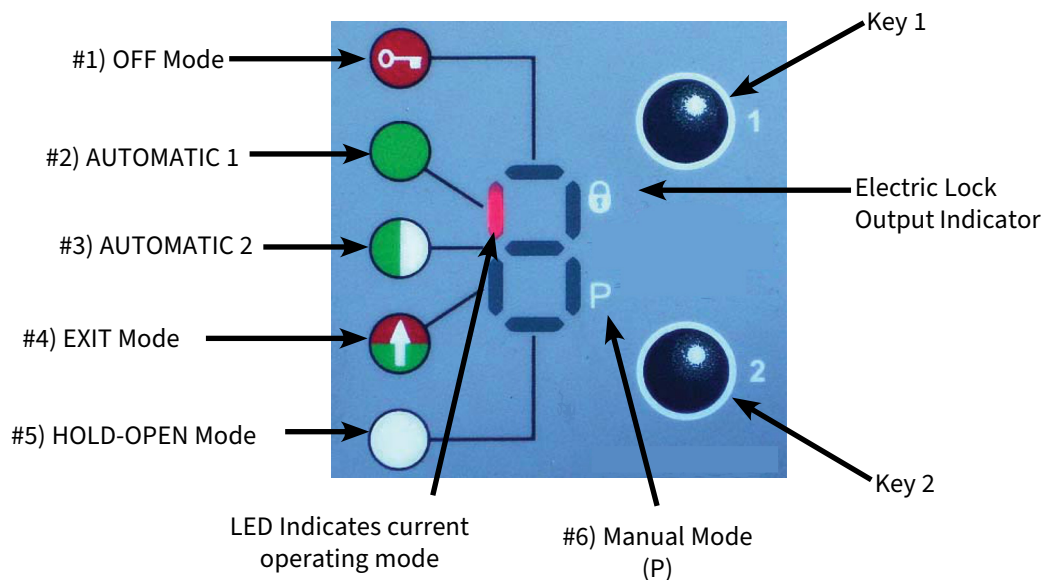
**** NOTE **** The door may take up to 14 cycles before calibration is complete. During the calibration process, the function pad will display:







After the Code "036" is entered:

| | |
|---|--|
| Activate door with BLUE switch SW2 on control board | H63 is displayed when door is opening. |
| | H62 is displayed when door is closing. |
| | H65 is displayed when door is closed. |
| When door closes, Press BLUE SW2 to activate door until | H65 is no longer displayed and controller beeps (14 cycles) |

7. Once the calibration is complete, a beep will be heard and the function pad will return to a single red line. Select **AUTOMATIC 1 MODE**.

Setting the Operating Modes:



-  **OFF Mode:**
The interior and exterior activators are inhibited after the door has reached the fully closed position. If an electric lock has been installed, it will be activated. The operator will cycle if a signal is sent to the key switch input.
-  **Automatic 1 Mode:**
Typical setting for normal operation. This setting allows interior and exterior activators, key switch, and safety devices to operate door.
-  **Automatic 2 Mode: (Reduced Opening)**
Allows the door to open with a reduced opening width. If necessary, hold open time can be adjusted different from Automatic 1 Mode.
-  **EXIT Mode:**
Allows interior activator and key switch inputs to operate the door system. Exterior activator is inhibited while door is closed but becomes active when the door is operated by the interior activator or key switch inputs.
-  **HOLD-OPEN Mode:**
Holds the door system open.
-  **MANUAL OPERATION (P) Mode:**
Allows the door to be used manually without the use of sensors.

8. Supply an activating signal. The door will open faster and close at a slower speed. It will operate at default speeds set during the calibration run above. The microprocessor senses panel weight and calculates braking distances.
9. Install all activation devices & test door.
10. If the customer desires to modify the door operating parameters such as opening or closing speed, hold open time or reduced door opening width, see the programming codes.
11. Supply another activating signal to test reversing photoeyes by blocking the light beam while door is closing. The door should open and remain open until the obstruction has been removed, the door will automatically close. Cycle the door several times to verify correct operation by all activators, safety devices and proper seal of the gasket. Make any necessary adjustments.
12. Test the automatic reversing by blocking the door during closing. Cycle the door open and closed again. Supply another input and block the door during opening.
13. Install the shroud. Shrouds over 10' long will be made in 2 pieces.
14. Mount 4 brackets on top of header in locations shown with self drilling and tapping screws.
15. Snap function control panel into steel mounting/splice bracket.
16. Loop excess cable from function control panel and secure with tie wraps.

Activator Signals

Inputs C1 & C2 – OPEN WITH TIME DELAY CLOSE

ACTIVATOR: This input is connected to a normally open pushbutton or other momentary contact that when activated, will open the door. As long as the contact is closed the door will remain open. When the contact is reopened, then, after a set time, the door will close automatically.

Inputs C1 & C2 – Optional - with Key Code 822,

OPEN WITHOUT TIME DELAY CLOSE: This input is connected to a normally open pushbutton or other momentary contact that when activated, will open the door. The door will remain open until it receives another contact closure, at which time the door will close.

Inputs C1 & C3, C4 & C6, D1 & D3, D4 & D6 - 24VDC

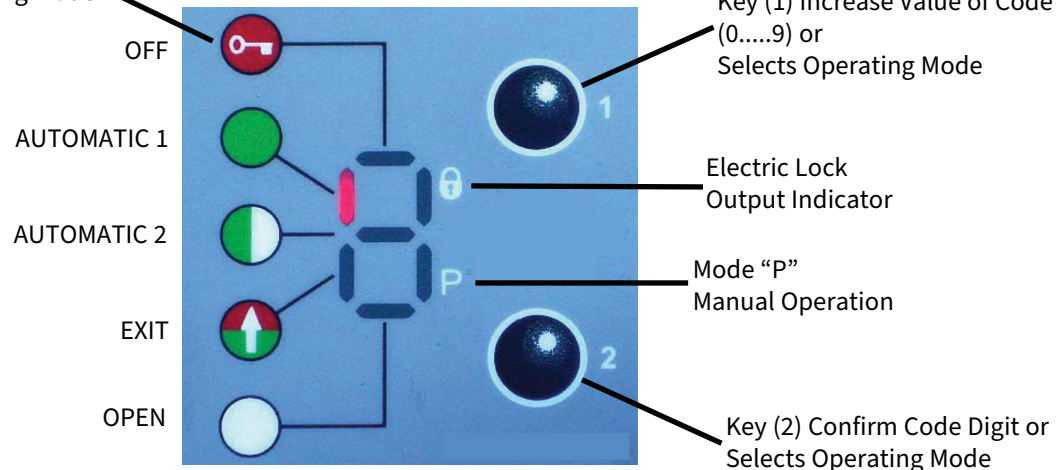
POWER – ACTIVATORS: This power supply can be used for optional activators and locks.

Inputs B5 & B6 – EMERGENCY STOP SWITCH: This input requires a normally closed contact, that when opened during door operation will immediately cause the door to stop by automatic braking, after which the door panel can be moved freely. The door will not operate until the contact is re-made.

Inputs D4 & D5 – DOOR INHIBIT: This optional input is connected to a normally closed switch. When this signal is broken, the door will not open. This input can be used to interlock this door with other doors, conveyors, security systems, etc.

Other Inputs are available for various functions, to be programmed via the Keypad

Symbols for
Operating Mode



Programming Parameter Codes

NOTE

- 1) **Do NOT** change parameters #01 thru #07 without consulting factory.
- 2) The most common parameter changes are highlighted below.

* = Default Value

| Code | Function | | | | | | | | | | | | | | | | Note |
|----------|---|-----|----|-----|----|----|-----|----|------|----|------|----|----|----|----|----|--|
| 01 1 | iMotion 2301 drive system | | | | | | | | | | | | | | | | |
| 01 2 | iMotion 2401 drive system | | | | | | | | | | | | | | | | |
| 02 1 | Automatic configuration Bi - Part, Right Handed | | | | | | | | | | | | | | | | Performs codes 030-037, 07x |
| 02 2 | Automatic configuration Left Handed | | | | | | | | | | | | | | | | Performs codes 030-037, 07x |
| 03 0 | --Calibration run for full open and full close position | | | | | | | | | | | | | | | | |
| 03 1 | --NO, NC or monitoring detection of SF1 - SF4 or (SW2: for 3 beeps) | | | | | | | | | | | | | | | | |
| 03 2 | --Detecting and storing MCU Lock Module 1 | | | | | | | | | | | | | | | | Only with code 572. Check coding on module |
| 03 3 | --Detecting and storing of MCU Battery Module | | | | | | | | | | | | | | | | |
| 03 4 | --Detecting and storing of MCU I/O- Module 1+2 | | | | | | | | | | | | | | | | Check coding on module |
| 03 5 | --Detecting and storing of MCU Power supply Module | | | | | | | | | | | | | | | | |
| 03 6 | --Detecting and storing of Door mass | | | | | | | | | | | | | | | | Display H65 |
| 03 7 | --Detecting 2nd FCP | | | | | | | | | | | | | | | | Check coding on module |
| 03 8 | -NO or NC signal detection on IN1 - IN4 | | | | | | | | | | | | | | | | |
| 03 9 | I/O Module 1: Detecting and storing of "in 1-4" (NO, NC) | | | | | | | | | | | | | | | | |
| 04 0 | Reset | | | | | | | | | | | | | | | | Starts program with calibration run |
| 04 2 | Firmware version | | | | | | | | | | | | | | | | Example: r06_00 = V06.00 |
| 04 3 | Number of cycles | | | | | | | | | | | | | | | | Example: c10_302 = 10'302 cycles (max. 99'999'999) |
| 04 4 | Number of operating hours | | | | | | | | | | | | | | | | Example: h4_002 = 4002 hours (max.99'999'999) |
| 05 5 | Delete fault protocol | | | | | | | | | | | | | | | | |
| 04 6 | Address of control unit for network | | | | | | | | | | | | | | | | Example: A1 = address no. 1 |
| 06 0* | Control without FRW | | | | | | | | | | | | | | | | FRW = Equipment for rescue and escape routes |
| 06 1...8 | Functions with FRW | | | | | | | | | | | | | | | | |
| 07 0...9 | --Door mass | | | | | | | | | | | | | | | | Automatic detection contained in 021 / 022 |
| 10 0...F | Hold-open time of activator in mode of op. AUTO1 | | | | | | | | | | | | | | | | |
| | 0 | 1 | 2* | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | b | C | d | E | F | code |
| | 0 | 0.5 | 1 | 2 | 3 | 5 | 7.5 | 10 | 12.5 | 15 | 17.5 | 20 | 25 | 30 | 45 | 60 | sec. |
| 11 0...F | Hold-open time of activator in mode of op. AUTO2 (Reduced Opening) | | | | | | | | | | | | | | | | |
| | 0 | 1 | 2* | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | b | C | d | E | F | code |
| | 0 | 0.5 | 1 | 2 | 3 | 5 | 7.5 | 10 | 12.5 | 15 | 17.5 | 20 | 25 | 30 | 45 | 60 | sec. |
| 12 0...F | Hold-open time of key switch | | | | | | | | | | | | | | | | |
| | 0 | 1 | 2* | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | b | C | d | E | F | code |
| | 0 | 0.5 | 1 | 2 | 3 | 5 | 7.5 | 10 | 12.5 | 15 | 17.5 | 20 | 25 | 30 | 45 | 60 | sec. |
| 13 0...9 | Delay time for Mode OFF to become active | | | | | | | | | | | | | | | | |
| | 0 | 1 | 2* | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | code |
| | 1 | 3 | 5 | 7.5 | 10 | 15 | 20 | 30 | 45 | 60 | | | | | | | sec. |
| 14 0...9 | Bell duration | | | | | | | | | | | | | | | | 0 = Duration identical to trigger duration |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6* | 7 | 8 | 9 | | | | | | | code |
| | id | 0.5 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | | | | | | | sec. |

Programming Parameter Codes continued

* = Default Value

| Code | Function | | | | | | | | | | Note |
|-------------|------------------------------------|------|------|-------|-------|-------|-------|------|-------|-------|-------------------------------------|
| 15 0...9 | Bell intermission | | | | | | | | | | |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6* | 7 | 8 | 9 | code |
| | 0 | 0.5 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | sec. |
| 16 0...9 | Hold open time of safety | | | | | | | | | | |
| | 0 | 1 | 2* | 3 | 4 | 5 | 6 | 7 | 8 | 9 | code |
| | 0 | 0.5 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | sec. |
| 17 0...9 | Runtime Battery in mode of op. 2-6 | | | | | | | | | | Door opens after switch-off battery |
| | 0 | 1 | 2 | 3* | 4 | 5 | 6 | 7 | 8 | 9 | code |
| | 10s | 1 | 5 | 10 | 30 | 60 | 120 | 240 | 360 | 480 | sec/min. |
| 18 0...9 | Runtime Battery in mode of op. OFF | | | | | | | | | | |
| | 0* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | code |
| | 10s | 1 | 5 | 10 | 30 | 60 | 120 | 240 | 360 | 480 | sec/min. |
| 20 1...9 | Opening Speed | | | | | | | | | | |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6* | 7 | 8 | 9 | Ccode |
| | 3.93 | 7.87 | 11.8 | 15.75 | 19.69 | 23.62 | 27.56 | 31.5 | 35.43 | 39.37 | inch/s |
| 21 0...9 | Closing Speed | | | | | | | | | | |
| | 0 | 1 | 2 | 3 | 4* | 5 | 6 | 7 | 8 | 9 | code |
| | 31.5 | 6.3 | 9.45 | 12.6 | 15.75 | 18.9 | 22.05 | 25.2 | 28.35 | 31.5 | inch/s |
| 22 0...9 | Close check speed | | | | | | | | | | |
| | 0* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | code |
| | .56 | .62 | .68 | .81 | 1 | 1.18 | 1.43 | 1.68 | 2 | 2.36 | inch/s |
| 26 0...9 2* | Braking distance opening | | | | | | | | | | 9 = max |
| 28 0...9 4* | Braking distance closing | | | | | | | | | | 9 = max |

| | | | | | | | | | | | |
|-------------|---|------|------|------|------|------|------|------|----|------|---|
| 30 0...9 | Motor force opening | | | | | | | | | | Net force on door edge |
| | 0* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Code |
| | .56 | .62 | .68 | .81 | 1 | 1.18 | 1.43 | 1.68 | 2 | 2.36 | % |
| 31 0...9 | Motor force closing | | | | | | | | | | Net force on door edge |
| | 0 | 1 | 2 | 3 | 4 | 5* | 6 | 7 | 8 | 9 | Code |
| | 5 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 100 | % |
| 33 0...9 | Force closed position | | | | | | | | | | Net force on door edge > reduce if H73 after 10s! |
| | 0 | 1 | 2 | 3 | 4 | 5* | 6 | 7 | 8 | 9 | Code |
| | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | N |
| 35 0...9 5* | Reversing sensitivity opening | | | | | | | | | | 9 = max |
| 36 0...9 5* | Reversing sensitivity closing | | | | | | | | | | 9 = max |
| 39 0...9 5* | Travel distance tolerances (60....300%) | | | | | | | | | | |
| 51 0* | Operating mode return to last setting on Function Control Panel | | | | | | | | | | After terminal operating mode |
| 51 1...6 | Operating mode return to mode of op. ... | | | | | | | | | | After terminal operating mode |
| | 1 | 2 | 3 | 4 | 5 | 6 | | | | | Code |
| | OFF | AUT1 | AUT2 | EXIT | OPEN | MAN. | | | | | Mode of Operation |
| 51 7 | No operating mode return | | | | | | | | | | After terminal operating mode |
| 55 0* | Locks in operating mode OFF | | | | | | | | | | |
| 55 1 | Locks in operating mode OFF, EXIT | | | | | | | | | | |
| 55 2 | Locks in operating mode OFF, AUTO 1+2, EXIT | | | | | | | | | | |
| 56 0* | Never unlocks in case of power failure | | | | | | | | | | |

Programming Parameter Codes continued

* = Default Value

| Code | Function | Note |
|-------------|--|--|
| 55 1 | Locks in operating mode OFF, EXIT | After terminal operating mode |
| 55 2 | Locks in operating mode OFF, AUTO 1+2, EXIT | |
| 56 0* | Never unlocks in case of power failure | |
| 56 1 | Unlocks in AUTO1, AUTO2, EXIT in case of power failure | |
| 56 2 | Unlocks in every operating mode in case of power failure | |
| 57 0 | Electric strike: current-free locked | |
| 57 1 | Electric strike: current-free unlocked | Only for electric strikes with 100% Duty ratio |
| 57 2* | Lock type "Lock unit 2301/2401" with automatic configuration | |
| 57 3 | Electric strike switch-on range 100%, until door is closed | Only for electric strikes with 100% Duty ratio |
| 57 4 | Lock type "STARLOCK", with automatic detection | With Lock Module LOCK-200-A |
| 57 5 | Lock type "89 TCP", with automatic detection | With Lock Module LOCK-200-A |
| 58 0...9 | Delay time to open | Only valid if electric strike has to unlock |
| | 0* 1 2 3 4 5 6 7 8 9 | Code |
| | 0 0.2 0.4 0.8 1.2 1.6 2 2.5 3 4 | Sec. |
| 59 1...4 | Voltage Output (E1 - E2) | ** With connection between "pwm" and "24V" |
| | 0 1 2 3 4* 5 6 | Code |
| | 6 9 12 15 24 12** 24** | C DC |
| 60 0 | in1: Operation mode OFF | Contact NO. NC detect with code 038. |
| 60 1 | in1: Operation mode MANUAL / Breakout / Park | Contact NO. NC detect with code 038. |
| 60 2 | in1: Operation mode OPEN | Contact NO. NC detect with code 038. |
| 60 3* | in1: Activator inside | Contact NO. NC detect with code 038. |
| 60 4 | in1: Activator outside | Contact NO. NC detect with code 038. |
| 60 5 | in1: Key switch | Contact NO. NC detect with code 038. |
| 60 6 | in1: Emergency open except in OFF | Contact NO. NC detect with code 038. |
| 60 7 | in1: Emergency open in all modes of op. | Contact NO. NC detect with code 038. |
| 60 8 | in1: Emergency close (with locking) | Contact NO. NC detect with code 038. |
| 60 9 | in1: Operation mode EXIT | Contact NO. NC detect with code 038. |
| 61 0...9 4* | in2: Same choice of functions as on "in1" | Contact NO. NC detect with code 038. |
| 62 0...9 5* | in3: Same choice of functions as on "in1" | Contact NO. NC detect with code 038. |
| 63 0...9 0* | in4: Same choice of functions as on "in1" | Contact NO. NC detect with code 038. |
| 64 0 | sf1: Safety opening 1 with stop function | Type of connection detect with code 031 |
| 64 1 | sf1: Safety opening 1 with creeping function | Type of connection detect with code 031 |
| 64 2* | sf1: Safety closing 1 with reversing function | Type of connection detect with code 031 |
| 64 3 | sf1: Safety closing 1 with creeping function | Type of connection detect with code 031 |
| 64 4 | sf1: Safety swing area | Type of connection detect with code 031 |
| 64 5 | sf1: Safety stop | Type of connection detect with code 031 |
| 64 6 | sf1: Emergency opening except in OFF | Type of connection detect with code 031 |
| 64 7 | sf1: Emergency opening in all modes of op. | Type of connection detect with code 031 |
| 64 8 | sf1: Emergency closing (with locking) | Type of connection detect with code 031 |
| 64 9 | sf1: Mode of op. MANUAL / Break out / Park | Type of connection detect with code 031 |
| 64 A | sf1: Safety opening 2 with stop function | Type of connection detect with code 031 |
| 64 b | sf1: Safety opening 2 with creeping function | Type of connection detect with code 031 |
| 64 C | sf1: Safety closing 2 with reverse function | Type of connection detect with code 031 |
| 64 d | sf1: Safety closing 2 with creeping function | Type of connection detect with code 031 |
| 65 0...d C* | sf2: Same choice of functions as on "sf1" | Type of connection detect with code 031 |

Programming Parameter Codes Continued

* = Default Value

| Code | Function | Note |
|-------------|---|---|
| 66 0...d 0* | sf3: Same choice of functions as on "sf1" | Type of connection detect with code 031 |
| 67 0...d A* | sf4: Same choice of functions as on "sf1" | Type of connection detect with code 031 |
| 68 0 | out1: Message "door closed" | |
| 68 1 | out1: Message "door closed and locked" | |
| 68 2 | out1: Message "door open" | |
| 68 3 | out1: Message "General error" | |
| 68 4* | out1: Bell | |
| 68 5 | out1: Message "Mode of operation OFF" | |
| 68 7 | out1: Battery in service | |
| 68 9 | out1: Message "door opening or open" | out2: Same choice of functions as on "out1" |
| 69 0...9 0* | out2: Same choice of functions as on "out1" | |
| 70 0* | I/O Module 1: in1: No function | |
| 70 1 | I/O Module 1: in1: Operation mode OFF | Contact NO. NC detect with code 039. |
| 70 2 | I/O Module 1: in1: Operation mode AUTOMATIC 1 | Contact NO. NC detect with code 039. |
| 70 3 | I/O Module 1: in1: Operation mode AUTOMATIC 2 | Contact NO. NC detect with code 039. |
| 70 4 | I/O Module 1: in1: Operation mode EXIT | Contact NO. NC detect with code 039. |
| 70 5 | I/O Module 1: in1: Operation mode OPEN | Contact NO. NC detect with code 039. |
| 70 6 | I/O Module 1: in1: Operation mode MANUAL | Contact NO. NC detect with code 039. |
| 70 7 | I/O Module 1: in1: Inhibit switch | Contact NO. NC detect with code 039. |
| 71 0...7 0* | I/O Module 1: in2: Same choice of functions as on I/O Module 1: in1 | Contact NO. NC detect with code 039. |
| 72 0...7 0* | I/O Module 1: in3: Same choice of functions as on I/O Module 1: in1 | Contact NO. NC detect with code 039. |
| 73 0...7 0* | I/O Module 1: in4: Same choice of functions as on I/O Module 1: in1 | Contact NO. NC detect with code 039. |
| 74 0* | I/O Module 1: out1: No function | |
| 74 1 | I/O Module 1: out1: Mode of op. OFF | |
| 74 2 | I/O Module 1: out1: Mode of op. AUTOMATIC 1 | |
| 74 3 | I/O Module 1: out1: Mode of op. AUTOMATIC 2 | |
| 74 4 | I/O Module 1: out1: Mode of op. EXIT | |
| 74 5 | I/O Module 1: out1: Mode of op. OPEN | |
| 74 6 | I/O Module 1: out1: Mode of op. MANUAL | |
| 74 7 | I/O Module 1: out1: "Door opens" | |
| 74 8 | I/O Module 1: out1: "door is opening or open" | |
| 74 9 | I/O Module 1: out1: "Door closes" | |
| 75 0...9 0* | I/O Module 1: out2: Same choice of functions as on I/O Module 1: out1 | |
| 76 0...9 0* | I/O Module 1: out3: Same choice of functions as on I/O Module 1: out1 | |
| 77 0...9 0* | I/O Module 1: out4: Same choice of functions as on I/O Module 1: out1 | |
| 78 0 | User Interface 1: in1: No function | |
| 78 1* | User Interface 1: in1: Panel lock | Contact NO |
| 78 2 | Function Control Panel: in1: Mode of op. OFF | Contact NO |
| 78 3 | Function Control Panel: in1: Mode of op. AUTOMATIC 2 | Contact NO |
| 78 4 | Function Control Panel: in1: Mode of op. EXIT | Contact NO |
| 78 5 | Function Control Panel: in1: Mode of op. OPEN | Contact NO |
| 78 6 | Function Control Panel: in1: Mode of op. MANUAL / Breakout / Park | Contact NO |
| 78 7 | Function Control Panel: in1: Emergency closing | Contact NO |
| 78 8 | Function Control Panel: in1: Emergency opening in all op. modes | Contact NO |
| 78 9 | Function Control Panel: in1: Key switch | |

* = Default Value

| Codes | Function | Note |
|-------------|---|---|
| 79 0...9 0* | Function Control Panel: in 2: Same choice as on FCP : in1 | |
| 80 0 * | Bell trigger: Safety closing 1 | |
| 80 1 | Bell trigger: Safety closing 2 | |
| 80 2 | Bell trigger: Activator inside | |
| 80 3 | Bell trigger: Activator outside | |
| 80 4 | Bell trigger: Key switch | |
| 82 0* | No step by step control | Push Open Time to Close see Params 10.1 to 10.9 |
| 82 1 | Step by step control only for key switch | |
| 82 2 | Step by step control only for activator inside and outside | Push Open / Push Close |
| 82 3 | Step by step control for activator inside, outside and key switch | |
| 85 0* | No airlock function | |

Inspection

MANUAL & POWER

- CHECK THE CONDITION OF THE MAIN ROLLER WHEELS.** Replace if the flange is $\frac{1}{16}$ " thick or less, and if the roller has excessive foreign debris on the working surface (Figure 33).
- CHECK GASKETS FOR PROPER SEALING.** Look for gasket compression along the entire door perimeter.
- CHECK MAIN DRIVE BELT FOR TENSION.** Allow a maximum deflection per chart (Figure 34) on one leg of the belt. Apply weight to belt & check deflection. If the tension is too loose, loosen and adjust the idler pulley bracket to maintain the desired tension. Once the proper tension is set, retighten the idler pulley bracket.

POWER

- CHECK OPERATOR MOUNTING BOLTS AND IDLER PULLEY BRACKET BOLTS FOR PROPER TIGHTNESS.**
During the initial run in period these items may loosen.

Preventative

1240 Manual/1250 Power

DAILY

- Check for proper operation and inspect all safety devices. These include all reversing photoeyes and the electronic reversing of the operator while opening or closing.

MONTHLY (Manual & Power)

- Check roller truck and panel mounting bolts.
- Check for a tight door seal. Make adjustments as shown in Section 2.
- Check gaskets for wear. Replace if torn or worn.
- Check header mounting bolts and tighten where necessary.
- Check drive belt tension (Figure 34).

MONTHLY (Power)

- Check operator mounting bolts.
- Check idler pulley bracket mounting bolts.
- Check all wiring for loose or sagging wires monthly or every 100,000 cycles, whichever comes first.

ANNUALLY (Power)

- Check drive belt for wear. (sides and teeth)
- Check all wiring for loose or sagging wires.
- Check photoeye operation.

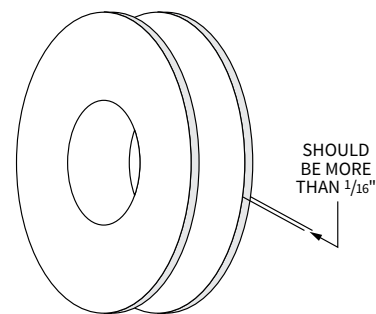


Figure 33: Roller Wheel Inspection

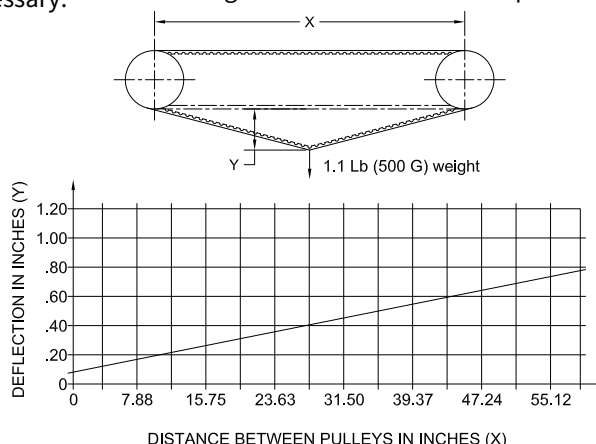


Figure 34: Drive Belt Tension Chart

Troubleshooting

| | Problem | Probable Cause | Corrective Measures |
|--------|--|--|---|
| Manual | A. Door panel difficult to close or open | 1. Gasket too tight. 2. Gasket sticks. | 1. Readjust panel for minimum gasket pressure. 2. Apply small amount of lubricant to the header surface only (Armor All or Automotive Wax). |
| | A. Door will not open | 1. No power 2. Loose or disconnected wire. 3. Defective actuator | 1. Check power switches, fuses & connections. Verify 115 VAC voltage at power outlet. 2. Check wiring and connection. 3. Check wiring and actuator with ohmmeter. |
| Power | B. Inconsistent starting, and stopping & reverse | 1. Loose or poor connection | 1. Check connections in control circuit and in all connections on the photoeyes. |
| | C. Door opens but will not close | 1. Photoeye malfunction 2. Activator | 1. Realign photoeye, inspect wiring and amplifier, replace if necessary. 2. Inspect wiring, replace if necessary. |
| | D. Door closes and opens immediately | 1. Photoeyes signaling to reopen | 1. Check for seals blocking photoeye, or obstruction in doorway. |
| | E. Drive belt "slaps" bottom side of rail | 1. Belt is loose | 1. Retension drive belt. |

Fault Diagnosis

"E" = Error, "H" = Hint

NOTE

Note the most common error & hint codes are highlighted below.

General Fault Table

| * No. | Fault | Reaction System | Reset |
|-------|---|---------------------------------------|--------------------------------|
| E00 | Firmware incompatible to MCU version /D | Safety operating mode or only display | Reset, new version MCU32-BASE |
| E0x | Internal test negative | Safety operating mode or only display | Reset |
| E11 | MCU Lock 1, wrong position | Door cannot open | Automatically if OK |
| E20 | LIN to Monit. Battery mod. MBAT interrupted | - | Reset |
| E21 | LIN to FCP 1 interrupted | Last mode of operation remains | Automatically if OK |
| E22 | LIN to FCP 2 interrupted | Last mode of operation remains | Automatically if OK |
| E23 | LIN to s I/O-Module 1 INOU interrupted | Programmed function will be inactive | Automatically if OK |
| E24 | LIN to s I/O-Module 2 INOU interrupted | Programmed function will be inactive | Automatically if OK |
| E25 | LIN to Lock Unit 1 LOCU interrupted | Last status remains | Automatically if OK |
| E26 | LIN to Lock Unit 2 LOCU- interrupted | Last status remains | Automatically if OK |
| E29 | LIN to Power Supply PSUP-40-36 interrupted | Last status remains | Automatically if OK |
| E30 | Safety clos. creep 2 >1min. Active, test neg. | According safety function | Automatically if OK |
| E31 | Safety open 1 >1min. Active, test neg. | According safety function | Automatically if OK |
| E32 | Safety op. creep 1 >1min. Active, test neg. | According safety function | Automatically if OK |
| E33 | Safety closing 1 >1min. Active, test neg. | According safety function | Automatically if OK |
| E34 | Safety clos. creep 1 >1min. Active, test neg. | According safety function | Automatically if OK |
| E35 | Safety swing area >1min. Active, test neg. | According safety function | Automatically if OK |
| E36 | Safety stop >1min. Active, test neg. | According safety function | Automatically if OK |
| E37 | Safety open 2 >1min. Active, test neg. | According safety function | Automatically if OK |
| E38 | Safety op. creep 2 >1min. Active, test neg. | According safety function | Automatically if OK |
| E39 | Safety closing 2 >1min. Active, test neg. | According safety function | Automatically if OK |
| E41 | Activator inside > 1min. Active | Door remains open | Automatically if O.K. |
| E42 | Activator outside > 1min. Active | Door remains open | Automatically if O.K. |
| E43 | Key switch > 1min. active | Door remains open | Automatically if O.K. |
| E46 | Emergency open >10min. active | Door remains open | Automatically if O.K. |
| E47 | Emergency close >10min. active | Door closes and remains closed | Automatically if O.K. |
| E48 | Wake up or Push button SW2 > 1min. active | Door remains open | Automatically if O.K. |
| E49 | Inhibit switch > 1min. active | Door stand still | Automatically if O.K. |
| E51 | Encoder not working | Safety operating mode | Automatic Reset / Reset |
| E53 | Calibration run different from stored value | Safety operating mode | Reset with code 030 |
| E54 | Door traveling farther than stored value | Safety operating mode | Reset >automatic configuration |
| E55 | Position different by > 5/16", tooth belt jumping | Only display, auto-correction stops | Automatically if OK / Reset |

Fault Diagnosis Continued

| *No. | Fault | Reaction System | Reset |
|------|---|-------------------------------|----------------------------------|
| E61 | Voltage 40V outside of admissible range | Safety operating mode | Automatically if O.K. |
| E62 | Power supply 24V (Limit U/I) | Safety operating mode | Automatically if O.K. |
| E63 | Current in power supply 40V too high | Safety operating mode | Automatically if O.K. |
| E64 | Motor temp. > 90 °C, cable interrupted | Safety operating mode | Automatically after cooling down |
| E65 | Control end stage > 100 °C | Safety operating mode | Automatically after cooling down |
| E66 | Motor control faulty in MCU32-BASE | Safety operating mode | Reset |
| E67 | Motor current too high in long-term | Normal operation | Automatically if O.K. |
| E72 | Battery Unit MBTU: Charge < 15% | - | Automatically if O.K. |
| E73 | Battery Module MBAT or ACCU faulty | - | Disconnect power supply |
| E8x | Memory or processor test negative | Safety operating mode | Reset |
| H11 | Operator type not defined | Safety operating mode | Program operator type |
| H14 | Automatic configuration not executed | Safety operating mode | Program 021 or 022 |
| H61 | Calibration run in opening direction | Searches open position | At the end of movement |
| H62 | Calibration run in closing direction | Searches closed position | At the end of movement |
| H63 | Reference run opening | Measures reference run length | At the end of movement |
| H64 | Reference run closing | Searches closed position | At the end of movement |
| H65 | Learn mode (Weight detection) | Normal operation | After 3-12 opening cycles |
| H71 | Battery mode | Door moves slowly | Power supply return |
| H73 | Motor current in closed position too high | Normal operation | Reset, reduce 33x |
| H91 | Obstacle detection at opening | Door reverses | Automatically, Display 20s. |
| H92 | Obstacle detected at closing | Door reverses | Automatically, Display 20s. |
| H93 | Permanent obstacle at opening | Reset after 5 reversings | Automatically, Display 20s. |
| H94 | Permanent obstacle at closing | Reset after 5 reversings | Automatically, Display 20s. |

Electrical Fault Table, Page 1

| System Behavior | No. | Cause | Remedy/ Rectification |
|---|------------|--|--|
| The door stops when opening. | H91 | Electronic obstacle recognition on opening by a person, wind pressure, ventilation or dirt in the floor guide. | Remove the obstruction. Clean the floor guide in operating mode P. |
| Door reverses when closing. | H92 | Electronic obstacle recognition on closing by a person, wind pressure, ventilation or dirt in the floor guide. | Remove the obstruction. Clean the floor guide in operating mode P. |
| The door stops repeatedly when opening. | H93 | Electronic obstacle recognition on opening in the same position by stationary obstacle. | Remove the obstruction. Clean the floor guide in operating mode P. |
| The door stops repeatedly when closing. | H94 | Electronic obstacle recognition on closing in the same position by stationary obstacle. | Remove the obstruction. Clean the floor guide in operating mode P. |
| Search run notified. | H61 H62 | Search run of the door after a reset or after power recovery. | Allow the search run to travel its full course. |
| Door operates at a reduced speed. | H71 | Battery operation | Wait for power recovery Switch on mains supply. |
| Door remains closed. | - | Operating mode such as OFF, EXIT or P. | Select operating mode AUTOMATIC 1. |
| Door remains open. | - | Operating mode such as OPEN or P. | Select operating mode AUTOMATIC 1. |
| The door does not lock in OFF. | E11 | Lock is jammed or defective. | Push the door leaves for a few seconds against the closed position in operating mode OFF when the door is closed. Have the system repaired by experts. |
| The door does not open after changing from OFF to AUTOMATIC. The lock makes switching noises from time to time. | E11 | Lock is jammed or defective. | Push the door leaves for a few seconds against the closed position in operating mode AUTOMATIC 1. Have the system repaired by experts. |

| System Behavior | No. | Cause | Remedy/Rectification |
|---|--------------------------|---|--|
| The door does not open in OFF when the key switch is used. The lock makes switching noises. | E11 | Lock is jammed or defective.. | Switch on with the key switch and then push the door leaves briefly against the closed position. Have the system repaired by experts. |
| Dependent on configuration. | E2 ... | Error in bus system | Have the system repaired by experts. |
| The door closes slowly. | E30 E34 | The safety facility in the closing direction is permanently active (>1 minute) or defective. | Remove objects from within the range of the sensor(s). Otherwise have the system repaired by an expert. |
| Door remains closed. | E31 E37 | The safety facility in the opening direction is permanently active (>1 minute) or defective. | Remove objects from within the range of the sensor(s). Otherwise have the system repaired by an expert. |
| The door opens slowly. | E32 E38 | The safety facility in the opening direction is permanently active (>1 minute) or defective. | Remove objects from within the range of the sensor(s). Otherwise have the system repaired by an expert. |
| The door remains open. | E33 E39 | The safety facility in the closing direction is permanently active (>1 minute) or defective. | Remove objects from within the range of the sensor(s). Otherwise have the system repaired by an expert. |
| The door remains open. | E41 E42 E43 | Activator inside is active > 1 min. Activator outside is active > 1 min. Key switch is active > 1 min. | Get sensor adjusted by a professional. Reset the key switch. |
| Door remains open. | E46 | Emergency opening monitoring > 10 mins. active | Have the system repaired by experts. |
| The door stands still. | E51 | Encoder defective. | Have the system repaired by experts. |
| The door stands still. | E53 E54 E55 E56 | Anomaly in the travel distance. Solid obstruction in the movement area. | Remove firm obstacle in the travelling range of the door. Perform a software-reset. <u>Have the system repaired by experts.</u> |
| The door stands still. | E61 E62 E63 | Power supply is overloaded or voltage too low. | Get the power supply and connections checked by a professional. |
| The door stands still. | E64 E65 | Drive/control system is overheated. | Wait for the automatic reset after the door/control system has cooled. Protect from direct sunlight. |
| The door stands still. | E66 | Motor control defective. | Have the system repaired by experts. |
| Normal operation | E67 | Drive heavily loaded. | Wait for the automatic reset Otherwise have the system repaired by an expert. |
| Door remains open or normal operation. | E72 | Battery charge < 15 % | Wait until battery is sufficiently charged |
| Door remains open or normal operation. | E73 | Battery unit defective | Have the system repaired by experts. |
| The door stands still. | E8.. | Control system shut down for safety reasons. | Perform a software-reset. Have the system repaired by experts. |
| The door collides with people. | - | Safety device or setting inadequate. | Shut down the system. |

Instructions for Ordering

This parts manual is intended to assist in the correct identification of the more commonly replaced parts; covering, generally, all models and styles offered within the marathon pharm. Line. The manual will also help identify obsolete parts, part design changes and current production parts. For more specific parts information, please contact an authorized representative or consult the factory's customer service or engineering departments. Asi doors reserves the right to discontinue any part and make design changes without notice.

General Instructions for Ordering Door Parts

Accurate information is always necessary to serve you correctly and promptly. Several steps should be followed to determine exactly the parts that are needed.

Refer to the information tag on your door and record the:

1. Door model number
2. Job number
3. Door number
4. Manufacturing date.

Use part numbers referenced in this manual.

If the item is not found in the manual, the product code on the back of the item is helpful.

If your door has no information label, the approximate purchase date is helpful.

Call
1-800-558-7068
or visit
asidoors.com/parts
to order parts

Door Identification

Determining the Job Number, Model and Year of Manufacture of your door is necessary to provide quick and accurate parts identification. The following is a description of labels and their locations.

When ordering parts, specify Job Number, Door Number and Manufacture Date

Product Labels:

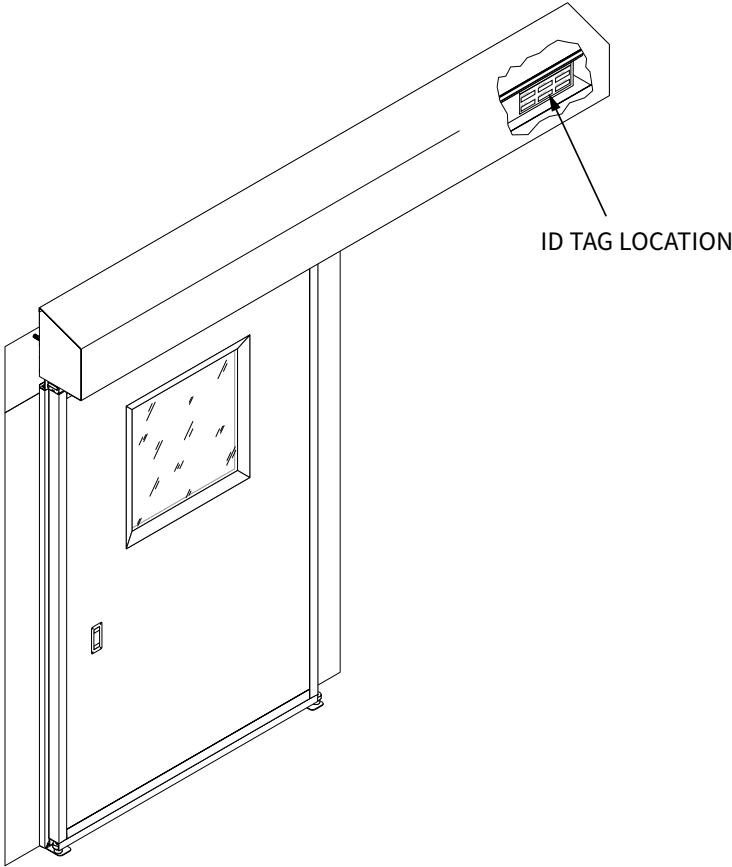
Manual Doors

| | | |
|------------------------------------|--------------------------------------|-------------------------------------|
| ASI Doors, Inc. | | |
| MILWAUKEE | WISCONSIN | MADE IN USA |
| DOOR MODEL <input type="text"/> | JOB NUMBER <input type="text"/> | DOOR NUMBER <input type="text"/> |
| MFG. DATE <input type="text"/> | INSPECTED BY <input type="text"/> | |

Power Doors

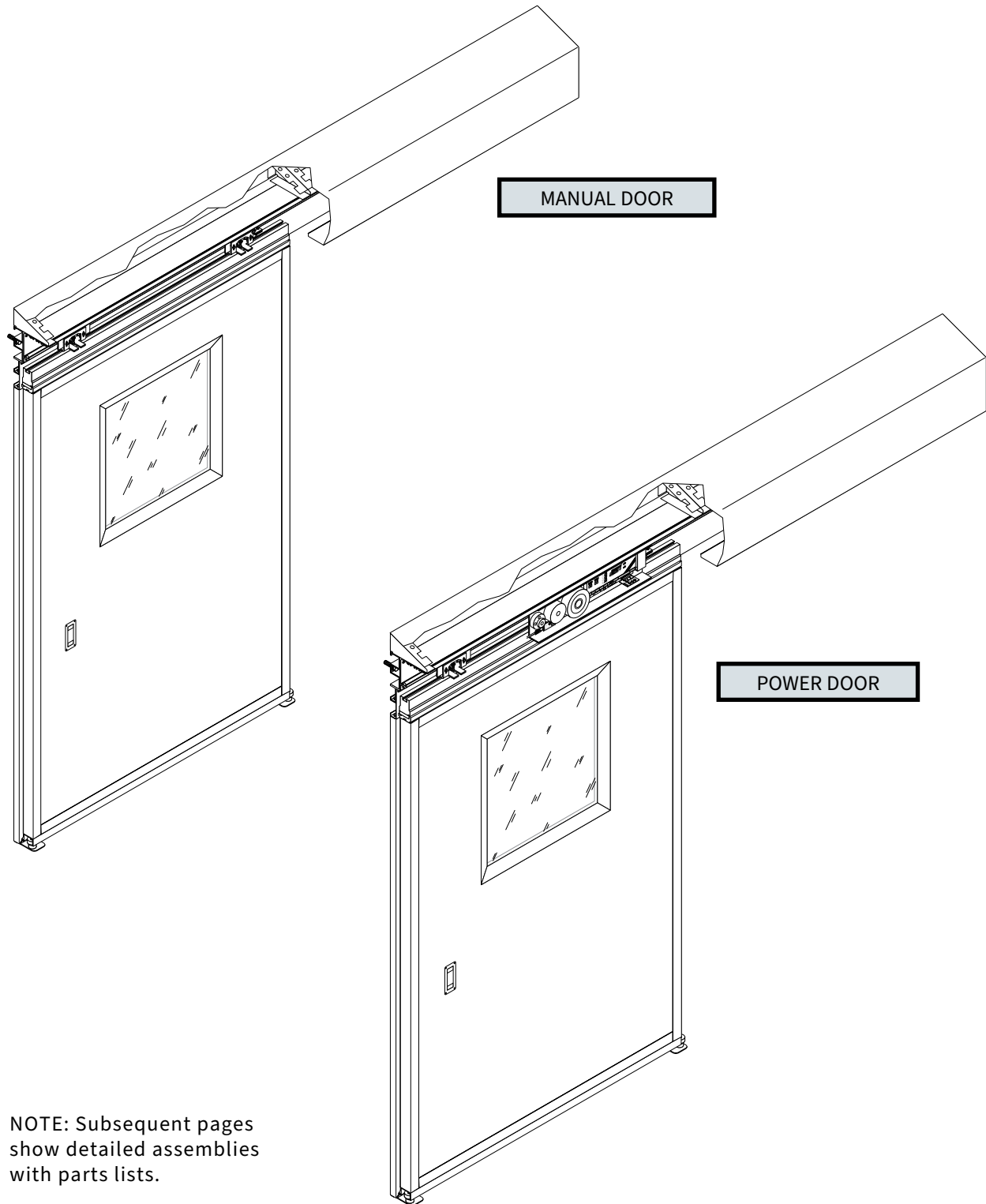
| | | | |
|---------------------------------------|---------------------------------------|--|----------------------------------|
| ASI Doors, Inc. | | | |
| MILWAUKEE | WISCONSIN | MADE IN USA | |
| DOOR MODEL <input type="text"/> | JOB NUMBER <input type="text"/> | DOOR NUMBER <input type="text"/> | |
| MFG. DATE <input type="text"/> | INSPECTED BY <input type="text"/> | | |
| OPERATOR TYPE <input type="text"/> | MODEL # <input type="text"/> | WIRING DIAGRAM <input type="text"/> | |
| HORSEPOWER <input type="text"/> | VOLTAGE/PHASE <input type="text"/> | HZ <input type="text"/> | AMPERAGE <input type="text"/> |

ID Tag Location



Door Assembly

When ordering parts, specify
Job Number, Door Number and
Manufacture Date

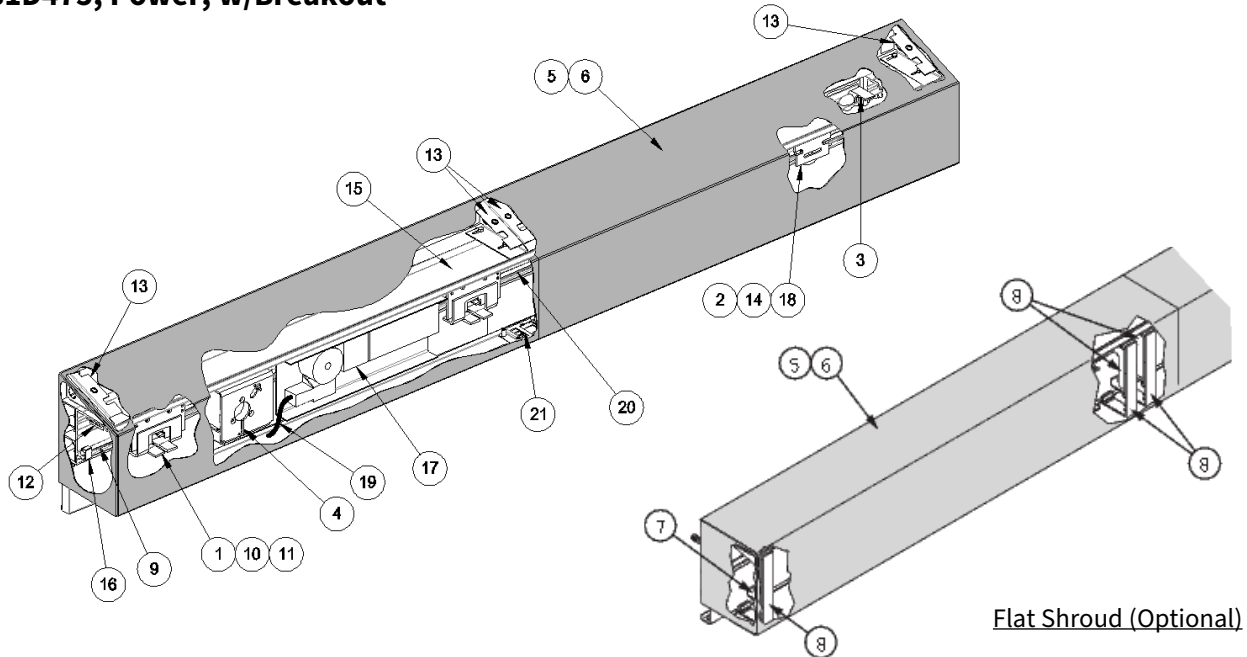


NOTE: Subsequent pages
show detailed assemblies
with parts lists.

Header Assembly and Shrouds

81D460, Manual, Standard
81D461, Power, 2301 Drive
81D468, Power, 2401 Drive
81D474, Manual, w/Breakout
81D475, Power, w/Breakout

When ordering parts, specify
 Job Number, Door Number
 and Manufacture Date



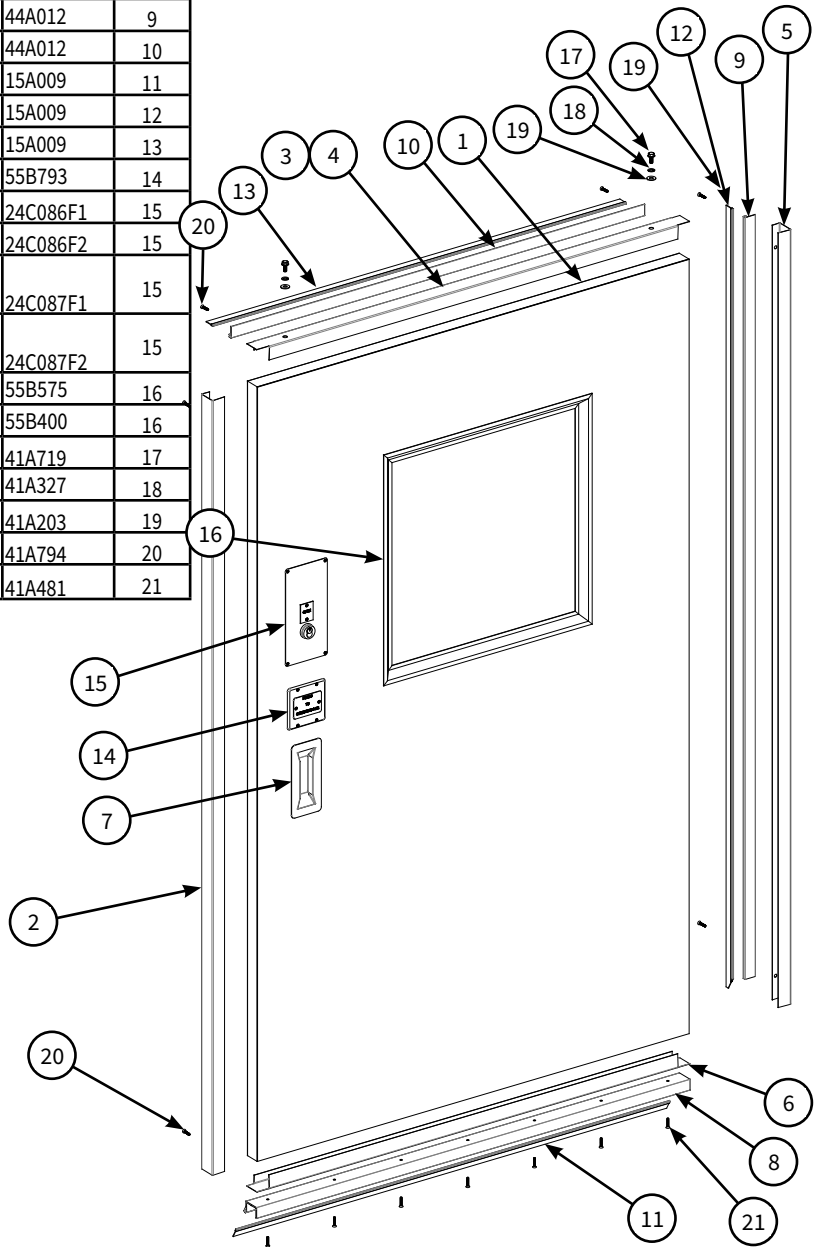
Flat Shroud (Optional)

| DESCRIPTION | PART # | ITEM # |
|---|-----------|--------|
| ASSEMBLY, ROLLER TROLLEY (INCLUDES ITEMS 10 & 11) | 24B143 | 1 |
| ASSEMBLY, IDLER PULLEY (INCLUDES ITEMS 14 & 18) | 24B141 | 2 |
| ASSEMBLY, TROLLEY STOP BUMPER | 24B142 | 3 |
| DRIVE MOTOR, 2301, STD DUTY (POWER ONLY) | 30D0036-6 | 4 |
| DRIVE MOTOR, 2401, HVY DUTY (POWER ONLY) | 30D0037-6 | 4 |
| SHROUD, SLOPED, STAINLESS STEEL (STANDARD) | 28B140 | 5 |
| SHROUD, FLAT ALUMINUM (OPTIONAL) | 44B005 | - |
| COVER, HOLD OPEN PLATE (UNDER SHROUD) | 24B148 | 6 |
| SIDE COVER, HEADER (FLAT SHROUD ONLY) | 13B767 | 7 |
| SUPPORT, COVER, HEADER (FLAT SHROUD ONLY) | 24B147 | 8 |
| KIT, GUIDE RAIL REPLACEMENT | 24B145 | 9 |
| TROLLEY, UPPER SECTION | 24B143-1 | 10 |
| TROLLEY, LOWER SECTION | 24B143-2 | 11 |
| TROLLEY STOP, CLOSED | 13B798 | 12 |
| BRACKET, SHROUD (STANDARD SLOPED SHROUD ONLY) | 13B797 | 13 |
| PULLEY, IDLER | 24B141-2 | 14 |
| EXTRUSION, HEADER AND BUILDOUT | 24B144 | 15 |
| GUIDE RAIL CLAMP | 24B146 | 16 |
| CONTROLLER ASSEMBLY, 2301 STD DUTY DRIVE (POWER ONLY) | 30D0036-1 | 17 |
| CONTROLLER ASSEMBLY, 2401 HVY DUTY DRIVE (POWER ONLY) | 30D0037-1 | 17 |
| BRACKET, IDLER PULLEY | 24B141-1 | 18 |

| DESCRIPTION | PART # | ITEM # |
|---|-----------|--------|
| POWER CORD | 23A271 | 19 |
| DRIVE BELT, STD DUTY (2301 DRIVE) | 50A120 | 20 |
| DRIVE BELT, HVY DUTY (2401 DRIVE) | 50A132 | 20 |
| ASSEMBLY, BRACKET, W/ TOUCHPAD CONTROLLER | 24B0492NN | 21 |
| TOUCHPAD CONTROLLER ONLY | 23A0363 | 22 |
| NAMEPLATE, WARNING LABEL (NOT SHOWN) | 17A223 | - |

Seamless Molded Door Panel Assembly

| DESCRIPTION | PART # | ITEM # |
|---|-----------|--------|
| DOOR PANEL, 1-3/4", MOLDED FIBERGLASS, EXCEL | 32C670F1 | 1 |
| DOOR PANEL, 1-3/4", STAINLESS, EXCEL, WIC <= 54" | 32C671F1 | 1 |
| DOOR PANEL, 1-3/4", STAINLESS, EXCEL, WIC > 54" | 32C671F3 | 1 |
| CAPPING, LEAD EDGE | 13B2122NV | 2 |
| CAPPING, TOP | 13C441 | 3 |
| CAPPING, TOP, CANEBOLT, RH (CANEBOLT OPTION ONLY) | 13B2123RV | 4 |
| CAPPING, TOP, CANEBOLT, LH (CANEBOLT OPTION ONLY) | 13B2123LV | 4 |
| CAPPING, TRAILING EDGE | 13C440 | 5 |
| CAPPING, BOTTOM | 13C442 | 6 |
| HANDLE, PULL, RECESSED | 16B036 | 7 |
| ASM, GUIDE ROLLER, (WIC + 5.00") | 24B1100NV | 8 |
| RETAINER, GASKET, SIDE (HIC - 1.38") | 44A012 | 9 |
| RETAINER, GASKET, TOP (WIC + 3.75") | 44A012 | 10 |
| GASKET SEAL BOTTOM (WIC + 5.00") | 15A009 | 11 |
| GASKET SEAL, SIDE (HIC - 1.38") | 15A009 | 12 |
| GASKET SEAL, TOP (WIC + 1.38") | 15A009 | 13 |
| PUSH PLATE OPTION | 55B793 | 14 |
| CANEBOLT OPTION, W/ EXIT INDICATOR, MAN | 24C086F1 | 15 |
| CANEBOLT OPTION, W/ EXIT INDICATOR, PWR | 24C086F2 | 15 |
| CANEBOLT OPTION, W/ EXIT INDICATOR & THUMBTURN, MAN | 24C087F1 | 15 |
| CANEBOLT OPTION, W/ EXIT INDICATOR & THUMBTURN, PWR | 24C087F2 | 15 |
| WINDOW OPTION, 1-3/4" FASTENERLESS | 55B575 | 16 |
| WINDOW OPTION, 1-3/4" FLUSH, CLEANVIEW | 55B400 | 16 |
| SCREW, HHCS, 3/8"-16 X 2.25" | 41A719 | 17 |
| WASHER, LOCK, 3/8, REG, SPLIT, SS | 41A327 | 18 |
| WASHER, FLAT, 3/8" | 41A203 | 19 |
| Screw, #10 X 1.00", Ph, Fhms | 41A794 | 20 |
| Screw, #12 X 1.25", Ph, Fhms | 41A481 | 21 |



**When ordering parts, specify
Job Number, Door Number and
Manufacture Date**

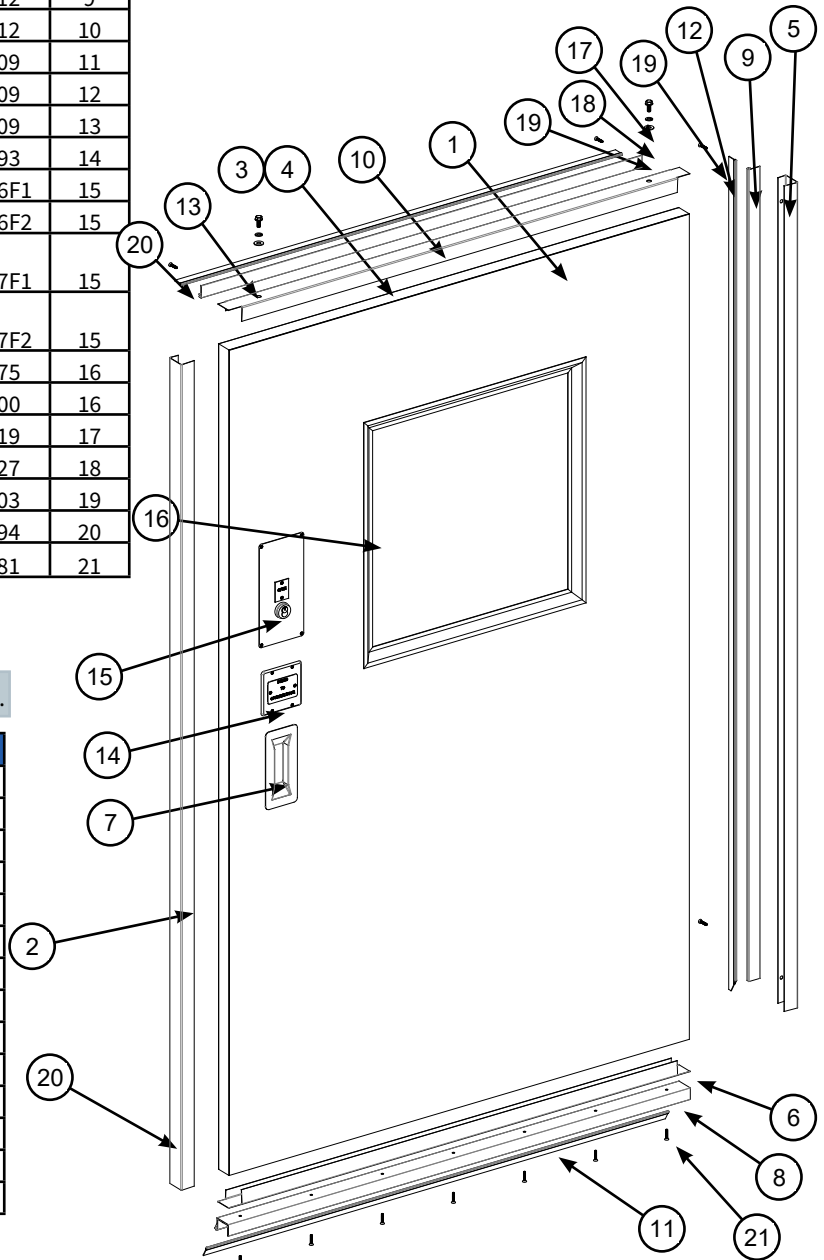
Laminated Door Panel Assembly

| DESCRIPTION | PART # | ITEM # |
|---|-----------|--------|
| Door Panel, 1-3/4", Seamless Molded Fiberglass | 32C670F1 | 1 |
| DOOR PANEL, 1-3/4", STAINLESS, WIC <= 54" | 32C671F1 | 1 |
| DOOR PANEL, 1-3/4", STAINLESS, WIC > 54" | 32C671F3 | 1 |
| CAPPING, LEAD EDGE | 13B2122NV | 2 |
| CAPPING, TOP | 13C441 | 3 |
| CAPPING, TOP, CANEBOLT, RH (CANEBOLT OPTION ONLY) | 13B2123RV | 4 |
| CAPPING, TOP, CANEBOLT, LH (CANEBOLT OPTION ONLY) | 13B2123LV | 4 |
| CAPPING, TRAILING EDGE | 13C440 | 5 |
| CAPPING, BOTTOM | 13C442 | 6 |
| HANDLE, PULL, RECESSED | 16B036 | 7 |
| ASM, GUIDE ROLLER, (WIC + 5.00") | 24B1100NV | 8 |
| RETAINER, GASKET, SIDE (HIC - 1.38") | 44A012 | 9 |
| RETAINER, GASKET, TOP (WIC + 3.75") | 44A012 | 10 |
| GASKET SEAL BOTTOM (WIC + 5.00") | 15A009 | 11 |
| GASKET SEAL, SIDE (HIC - 1.38") | 15A009 | 12 |
| GASKET SEAL, TOP (WIC + 1.38") | 15A009 | 13 |
| PUSH PLATE OPTION | 55B793 | 14 |
| CANEBOLT OPTION, W/ EXIT INDICATOR, MAN | 24C086F1 | 15 |
| CANEBOLT OPTION, W/ EXIT INDICATOR, PWR | 24C086F2 | 15 |
| CANEBOLT OPTION, W/ EXIT INDICATOR & THUMBTURN, MAN | 24C087F1 | 15 |
| CANEBOLT OPTION, W/ EXIT INDICATOR & THUMBTURN, PWR | 24C087F2 | 15 |
| WINDOW OPTION, 1-3/4" FASTENERLESS | 55B575 | 16 |
| WINDOW OPTION, 1-3/4" FLUSH, CLEANVIEW | 55B400 | 16 |
| SCREW, HHCS, 3/8"-16 X 2.25" | 41A719 | 17 |
| WASHER, LOCK, 3/8, REG, SPLIT, SS | 41A327 | 18 |
| WASHER, FLAT, 3/8" | 41A203 | 19 |
| SCREW, #10 X 1.00", PH, FHMS | 41A794 | 20 |
| Screw, #12 X 1.25", Ph, Fhms | 41A481 | 21 |

**When ordering parts, specify
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Manufacture Date**

The following parts only apply to Break-Away Panels.

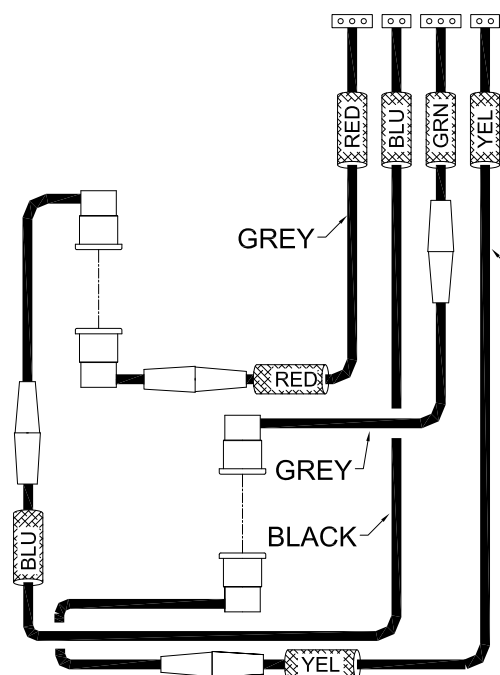
| DESCRIPTION | PART # |
|--|--------------|
| BOLT, SHOULDER, 5/8-11 X 3-1/2", SHSS, S/S | 41A733 |
| DETENT | 16A110 |
| SET SCREW | 41A104 |
| EXTRUSION, TOP | 13B765 |
| EXTRUSION, BOTTOM | 13B764 |
| DECAL | 17B034 |
| SCREW, 1/4-20 X 1-1/4", SHCS, LOW HEAD | 41A986 |
| SPACER, BREAKOUT | 11A133 |
| T-NUT, 5/16-18 | 41A735 |
| SCREW, 5/16-18 X 1/2", WHIZLOCK | 41A620 |
| SCREW, SET, 5/16-18 X .25", CUP POINT | 41A740 |
| ASSEMBLY, BREAKOUT ROLLER | 24B154 |
| SCREW, #10-24 X 1" PH FHMS SS | 41A199 |
| ASM, GUIDE ROLLER, BREAKOUT (WIC + 5.00") | 24B1101LV/RV |



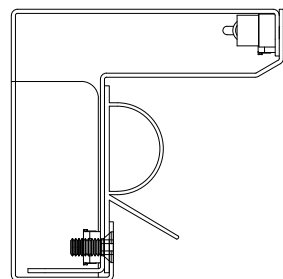
Face Frame Assemblies, Lead Edge

| QTY | DESCRIPTION | PART # | ITEM # |
|-----|---|-----------|--------|
| 1 | ASM, WALL CLIP, LEAD EDGE, LH SLIDE | 24B0452RV | 1 |
| 1 | ASM, WALL CLIP, LEAD EDGE, RH SLIDE | 24B0452LV | 1 |
| 1 | ASM, WALL CLIP, LEAD EDGE, LH SLIDE, BRKOUT | 24B0490RV | 1 |
| 1 | ASM, WALL CLIP, LEAD EDGE, RH SLIDE, BRKOUT | 24B0490LV | 1 |
| 1 | ASM, COVER, LEAD EDGE, LH SLIDE, MANUAL | 24B0454RV | 2 |
| 1 | ASM, COVER, LEAD EDGE, RH SLIDE, MANUAL | 24B0454LV | 2 |
| 1 | ASM, COVER, LEAD EDGE, RH SLIDE, MANUAL, BRKOUT | 24B0625RV | 2 |
| 1 | ASM, COVER, LEAD EDGE, RH SLIDE, MANUAL, BRKOUT | 24B0625LV | 2 |
| 1 | ASM, COVER, LEAD EDGE, LH SLIDE, PWR, 2 P/E | 24B0453RV | 2 |
| 1 | ASM, COVER, LEAD EDGE, RH SLIDE, PWR, 2 P/E | 24B0453LV | 2 |
| 1 | ASM, COVER, LEAD EDGE, LH SLIDE, PWR, 2 P/E, BRKOUT | 24B0491RV | 2 |
| 1 | ASM, COVER, LEAD EDGE, RH SLIDE, PWR, 2 P/E, BRKOUT | 24B0491LV | 2 |
| 1 | ASM, COVER, LEAD EDGE, LH SLIDE, PWR, 4 P/E | 24B0852RV | 2 |
| 1 | ASM, COVER, LEAD EDGE, RH SLIDE, PWR, 4 P/E | 24B0852LV | 2 |
| 1 | ASM, COVER, LEAD EDGE, LH SLIDE, PWR, 4 P/E, BRKOUT | 24B0851RV | 2 |
| 1 | ASM, COVER, LEAD EDGE, RH SLIDE, PWR, 4 P/E, BRKOUT | 24B0851LV | 2 |
| 2 | SCREW, #10-24 x .625, FHMS, SS, ALLEN HEAD | 41A883 | 3 |
| 1 | SEAL, LEAD EDGE, SINGLE SLIDE, CLEAN SEAL | 11B0087NN | 4 |
| A/R | PHOTOEYE, TORMAX # US801343 | 23A367 | 5 |
| A/R | WEDGE, WIND LOAD (OPTIONAL) | 13B1053 | 6 |

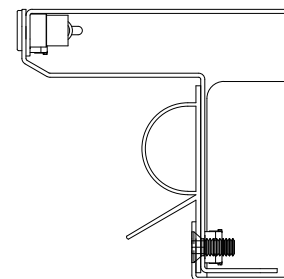
**When ordering parts, specify
Job Number, Door Number and
Manufacture Date**



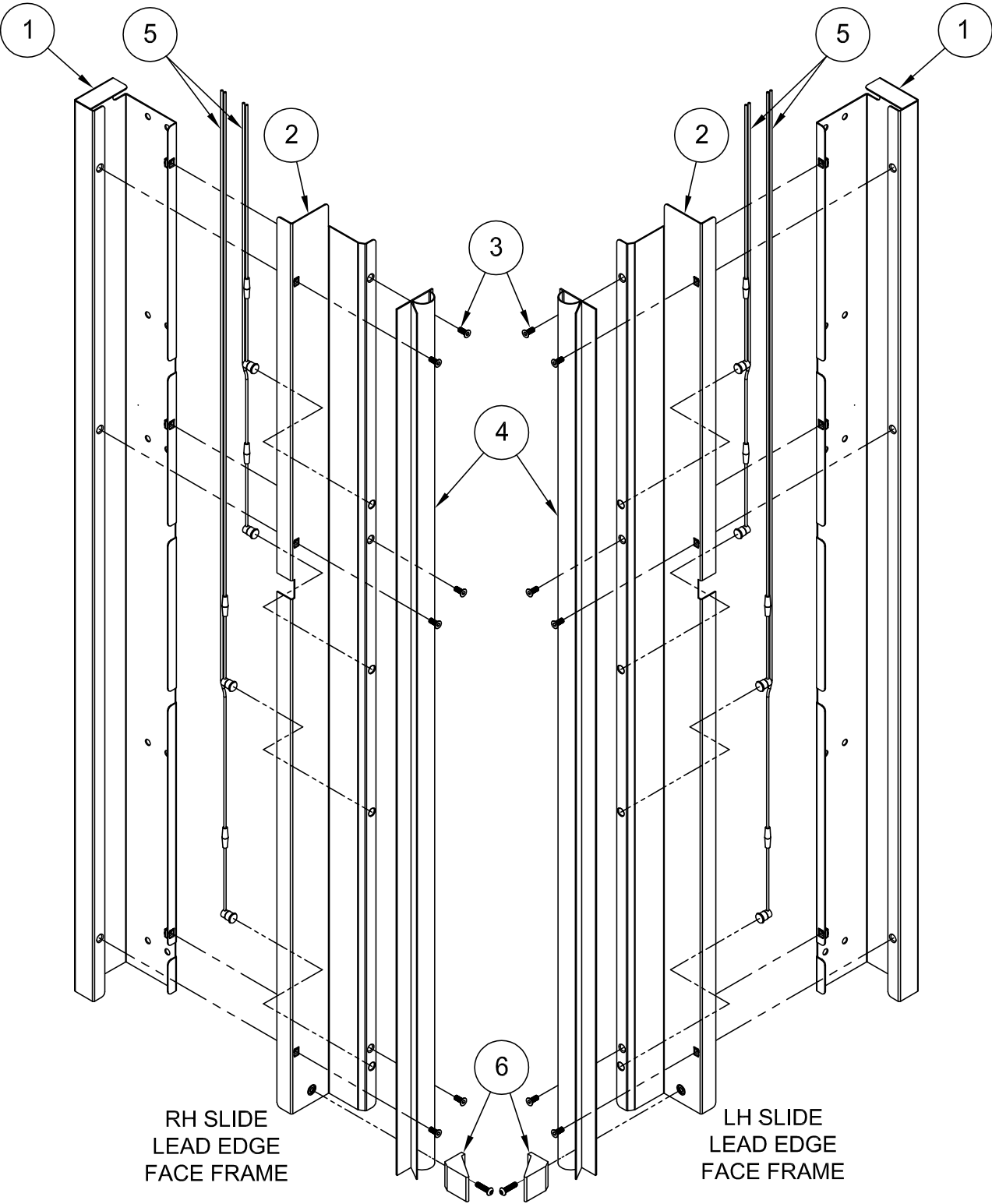
Photoeye wiring - Only used on
Power models.



RH Slide Lead Edge
Face Frame
Top View

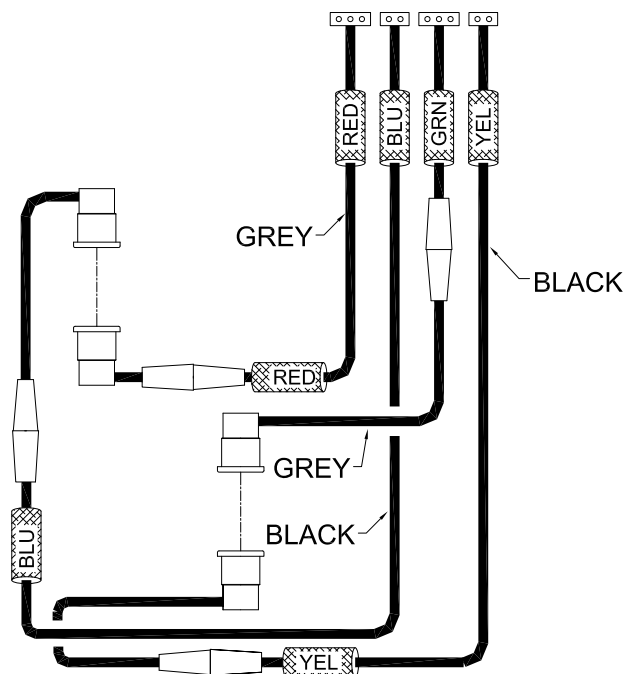


LH Slide Lead Edge
Face Frame
Top View

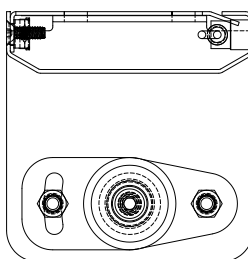


Face Frame Assemblies, Trail Edge

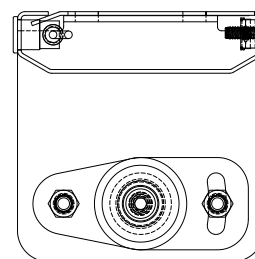
| QTY | | | | | | DESCRIPTION | PART # | ITEM # |
|-----|---|---|---|---|---|-------------------------------------|-------------|--------|
| - | - | - | - | - | X | ASSY, FACE FRAME, 2 P/E, POWER, RH | 76B0005RV | - |
| - | - | - | - | X | - | ASSY, FACE FRAME, 2 P/E, POWER, LH | 76B0005LV | - |
| - | - | - | X | - | - | ASSY, FACE FRAME, 0 P/E, MANUAL, RH | 76B0006RV | - |
| - | - | X | - | - | - | ASSY, FACE FRAME, 0 P/E, MANUAL, LH | 76B0006LV | - |
| - | X | - | - | - | - | ASSY, FACE FRAME, 4 P/E, POWER, RH | 76B0036RV | - |
| X | - | - | - | - | - | ASSY, FACE FRAME, 4 P/E, POWER, LH | 76B0036LV | - |
| - | - | - | - | - | - | | | |
| - | 1 | - | 1 | - | 1 | WELDMNT, FACE FRAME, RH | 28B0335R | 1 |
| 1 | - | 1 | - | 1 | - | WELDMNT, FACE FRAME, LH | 28B0335L | 1 |
| - | - | - | - | - | 1 | COVER, FACE FRAME, 2 P/E, RH, PWR | 13B1792RV20 | 2 |
| - | - | - | - | 1 | - | COVER, FACE FRAME, 2 P/E, LH, PWR | 13B1792LV20 | 2 |
| - | - | 1 | 1 | - | - | COVER, FACE FRAME, RH/LH, MANUAL | 13B1793NV20 | 2 |
| - | 1 | - | - | - | - | COVER, FACE FRAME, 4 P/E, RH, PWR | 13B1877RV20 | 2 |
| 1 | - | - | - | - | - | COVER, FACE FRAME, 4 P/E, LH, PWR | 13B1877LV20 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | ASM, ADJUSTABLE FLOOR ROLLER | 24B210 | 2 |
| 2 | 2 | - | - | 1 | 1 | PHOTOEYE, TORMAX # US801343 | 23A367 | 4 |
| 1 | 1 | - | - | 1 | 1 | LABEL, PHOTOEYE INSTALLATION | 17B037 | 5 |
| 2 | 2 | 2 | 2 | 2 | 2 | PANEL NUT, 10-24, .025-.063 THK | 41A900 | 6 |
| 2 | 2 | 2 | 2 | 2 | 2 | SCREW, 10-24 X .625, PHMS, S/S | 41A883 | 7 |
| 2 | 2 | 2 | 2 | 2 | 2 | NUT, 1/4-20, HEX, NYLOCK, S/S | 41A639 | 8 |



**When ordering parts, specify
Job Number, Door Number
and Manufacture Date**



RH Slide Trail Edge
Face Frame
Top View

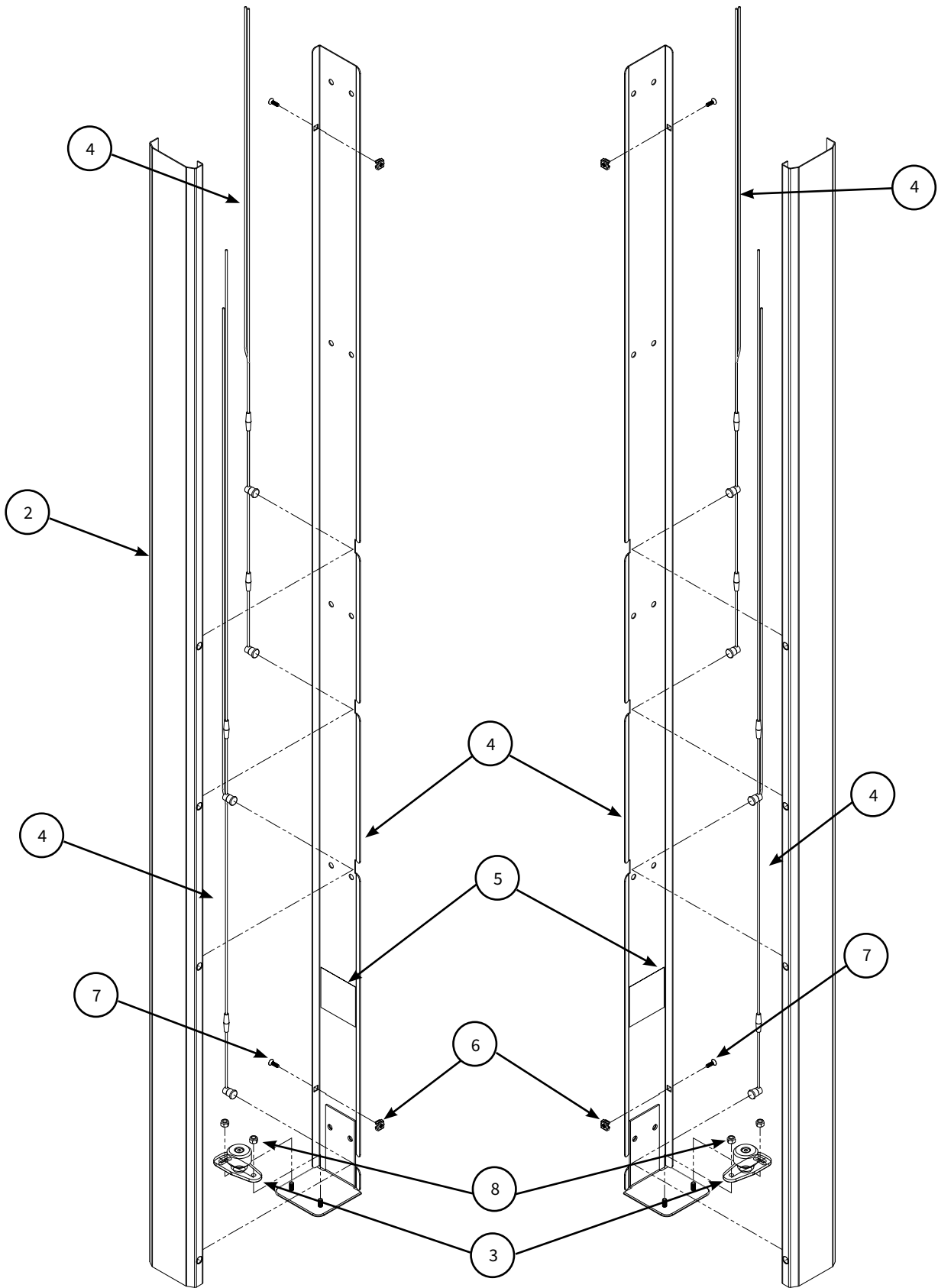


LH Slide Trail Edge
Face Frame
Top View

Photoeye wiring - Only used on
Power models.

NOTE

Note consult ASI service for specific face frame assemblies appropriate for your specific door installation.





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