



OWNER'S MANUAL

MODEL 315

High-Speed Fabric In-Tube Roll-Up Door

Manual: 17A0334

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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 serious injury or death.

WARNING

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

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.

Safety Practices Continued



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

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.

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.

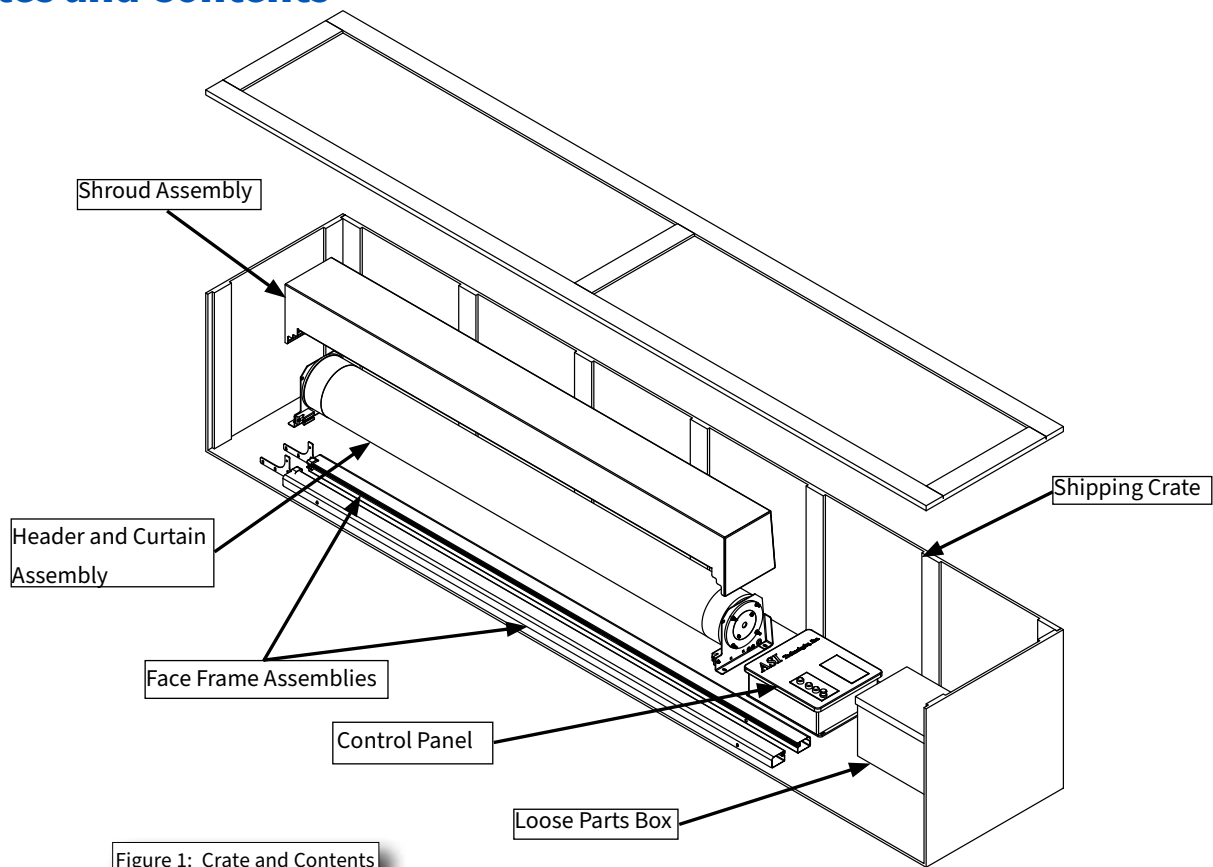
At ASI’s request, customer shall return to ASI for inspection any Door System for which a warranty claim has been made, F.O.B. ASI’s facility with freight prepaid. The customer is responsible for any removal costs.

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



Upon receipt of the shipment, check that you have received the correct number of pieces as shown (figure 1). Crate will contain the Face Frames, the Header and Curtain assembly, the Loose Parts box, and Control Panel. The shipping crate may contain 1 or 2 complete door assemblies. 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. **DO NOT** remove door sections from crate until you encounter the step in which they are to be installed.

Unless specifically called out as “Provided by ASI”, installer is to provide all necessary mounting hardware, anchors, inserts, hangers, supports and equipment needed to install door in accordance with final shop drawings and manufacturer’s instructions.

Loose Parts

Description	Qty.
Installation Instructions	1
Photo Eyes	As Required
Motor Cable	1
Brake Cable	1
Encoder Cable	1
Encoder Extension Cable	As Required
Sales Drawing	1
Owner’s Manual	1
Misc. Activation Devices	As Ordered
Warning Name Plate Assembly	1
5/16-18 x 5/8" Flange Screws	2
5/16-18 x 3/4" Carriage Bolts	4
5/16-18 Whizlock Nuts	4
PVC Curtain Fabric Shims	3
Grease, H1 Food Grade, 2 Oz	1
Control Enclosure Box	
Control Box	1
Schematic	1

Door Measurements

1. Make contact with the person responsible at the customer's place of business – check access conditions and prevailing safety practices.
2. First check the dimensions of the construction opening. The exact measurements can be found on the production sheet supplied with the door.
3. Carefully unpack the door and check the various components:
 - Left and right side frames.
 - Header assembly and installation manual included in the packing list.
 - Control box, wiring diagram, photo-eyes and cables for photoeyes and encoder.
 - Fasteners for the door, the operating controls and other accessories.

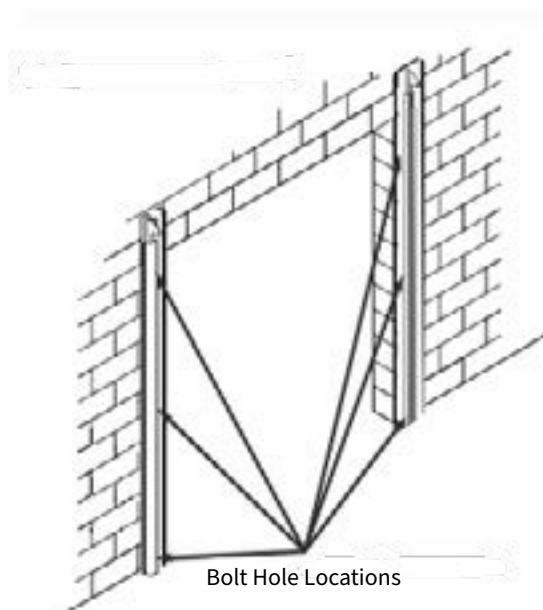


Figure 2: Marking Bolt Holes

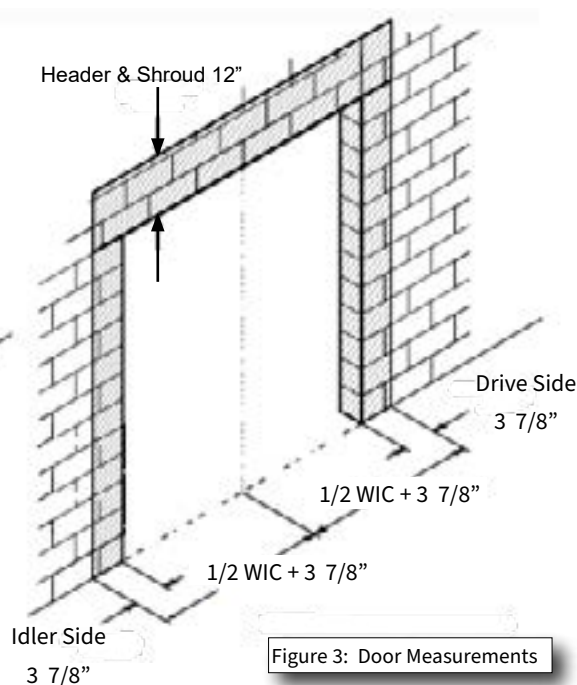


Figure 3: Door Measurements

Tools Recommended

Tape Measure
Level
Wire Cutter
Wire Stripper
Inch Sockets
Inch Wrenches

Allen Wrenches
Needle Nose Pliers
Drill Driver
Drill Bits
Screw Drivers

Face Frame Installation

Assembly on the floor:

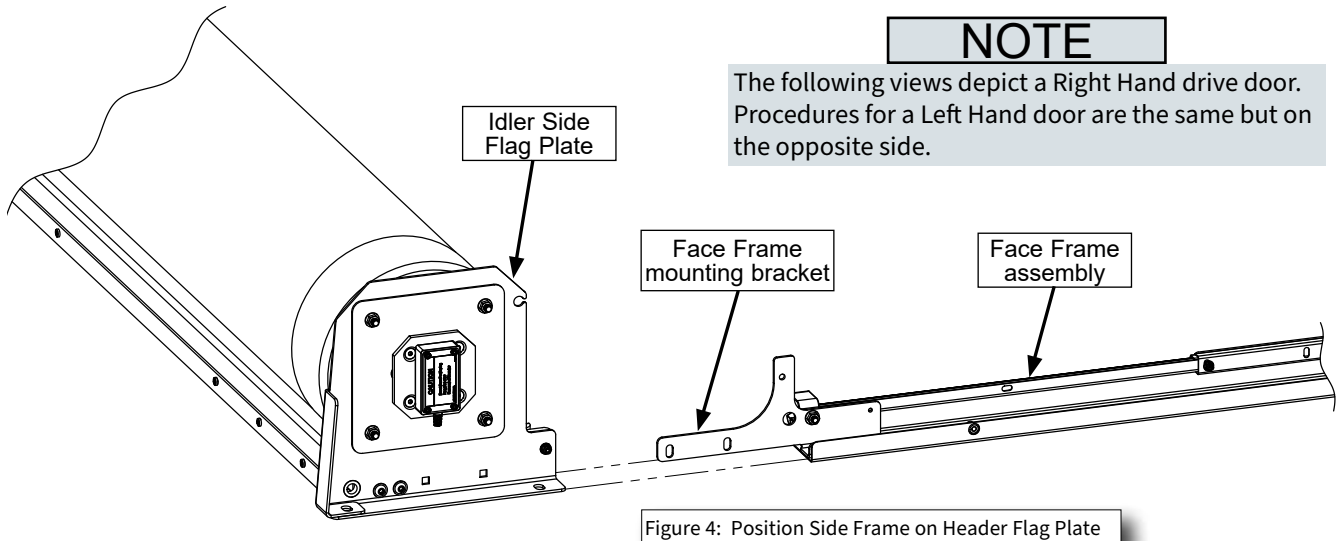
NOTE

Only ASI Doors qualified personnel are authorized to carry out this work.

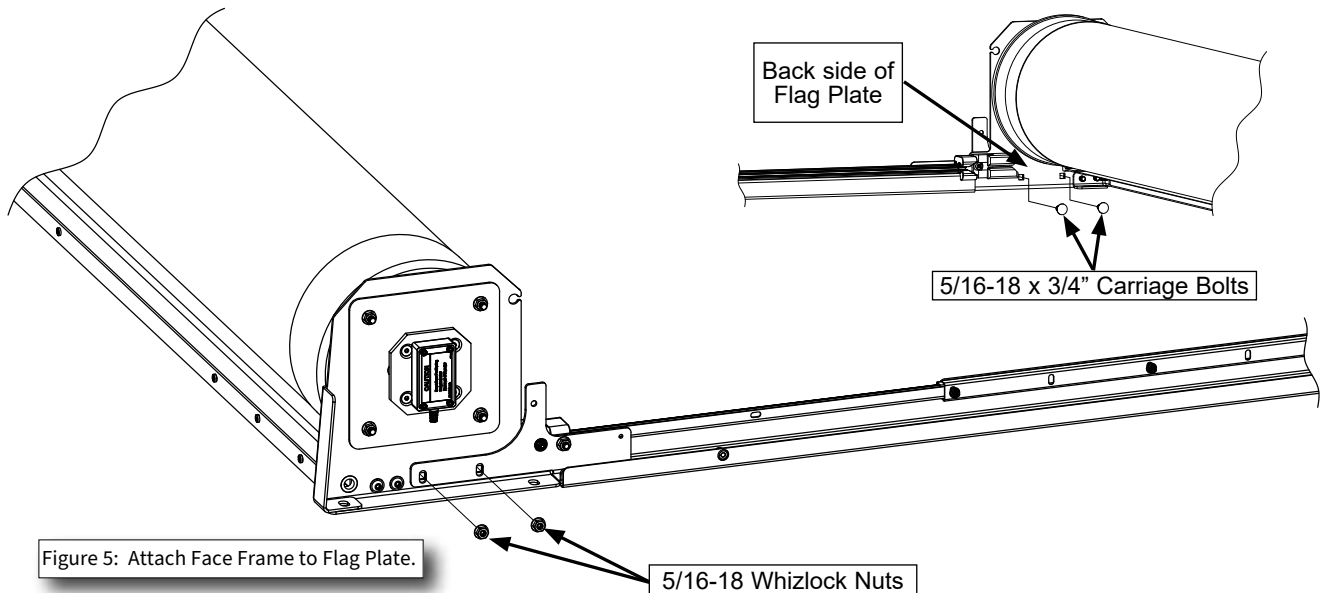
1. Lay Header assembly on the floor on its back. Starting on the Idler side, lay one Side Frame on the floor aligned with and below the Header Flag Plate.

NOTE

The following views depict a Right Hand drive door. Procedures for a Left Hand door are the same but on the opposite side.



2. Slide the top mounting bracket of the idler side Face Frame along the outer face of the idler side Header Flag Plate. Line up the slotted holes in the Face Frame mounting bracket with the square holes in the idler side Flag Plate (Figure 4).



3. Retrieve (4) 5/16-18 x 3/4" Carriage Bolts and (4) 5-16-18 Whizlock Nuts from Loose Parts box.
4. Insert (2) carriage bolts through the (2) square holes from the back side of the Flag Plate, and through the 2 slotted holes on the Face Frame mounting plate (Figure 5).
5. Add 2 Whizlock nuts to the front side of the Face Frame mounting plate and tighten.
6. Using the other (2) bolts & nuts, repeat the previous steps on other (Drive) side.

Header Installation

Lifting the Door:

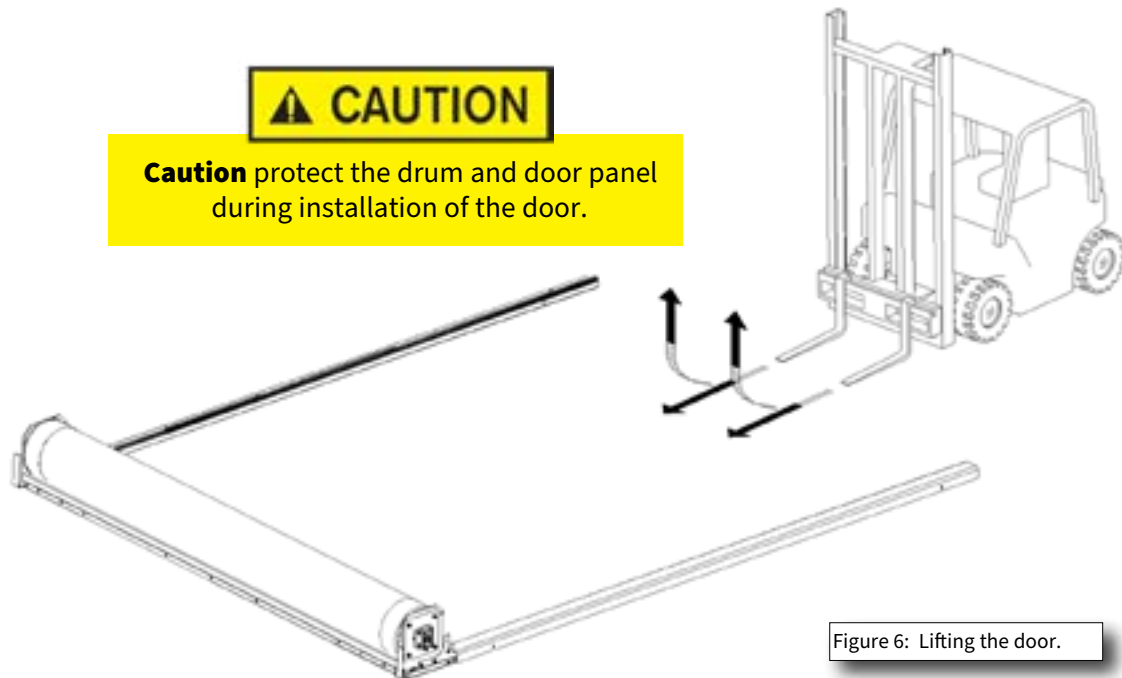


Figure 6: Lifting the door.

After attaching both Side Frames to the Header, lift the door using a fork lift, and move the door into position on the opening. Use protective padding between the forks and the Curtain & Barrel to avoid damaging it while lifting.

Header Installation Continued

CAUTION

The attachment of the Header assembly and the Face Frames to the wall must be carried out with appropriate methods. The installer must ensure that the fasteners are suitable for the size of the door and the type of walls; if necessary, increase the number of the fasteners used.

Checks before the Installation of the Door:

1. Measure the floor for level from left to right, and check the opening size and squareness of opening.
2. Place the entire structure centered around the construction opening (Figure 7).
3. The inner dimension "B", between the inside of the Face Frames, should be the width of the door opening stated on the production data sheet and customer order form that was supplied with the door, $+0"/-1/8"$. Check this dimension at the bottom, middle, and top of the opening.
4. The dimension between the header flag plates top & bottom will be the opening width $+ 2 1/16" +0/-1/8"$.
5. Check both the top & bottom of the flag plates to verify that this dimension is held and that the flag plates are parallel to each other.
6. When installing the door, use a mechanical or laser level to ensure that the Header is installed level. If floor is not level and there is a gap under one of the face frames, use shims under that side to keep header level.
7. Mount Face Frames using hardware appropriate for the wall construction (supplied by installer) in the mounting slots provided in the Face Frames (Figure 8).

INSTALLATION

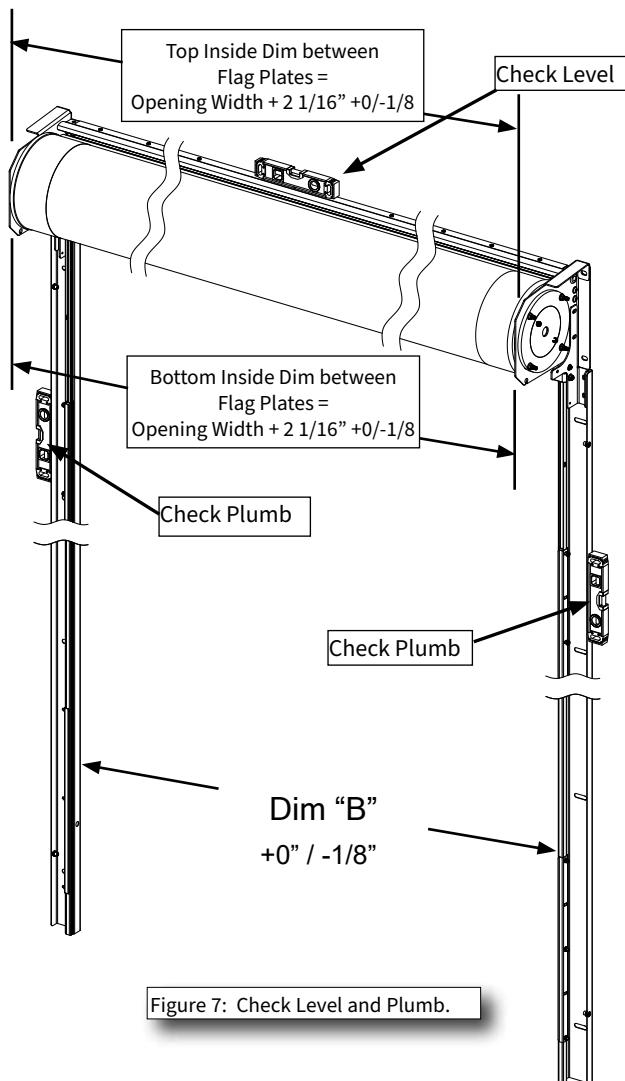


Figure 7: Check Level and Plumb.

CAUTION

Be sure to verify the dimensions between the Flag Plates on the top & bottom. Failure to do so may result in degraded performance or damage to the Curtain.

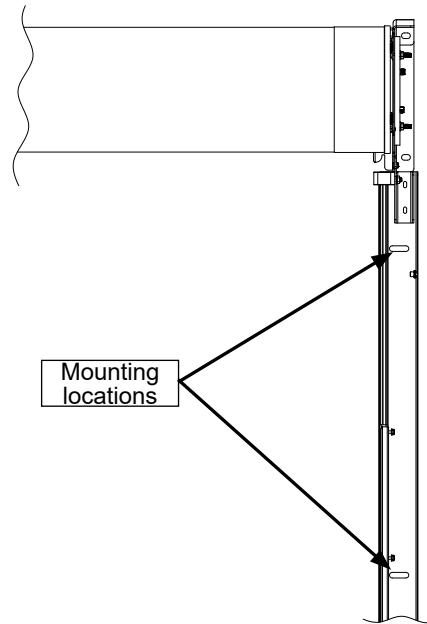


Figure 8: Mounting locations

NOTE

For an optimum seal, the gaps between the door structure and the walls of the building must be filled. Please consult the customer with regard to the choice of materials to be used (caulk, silicone, etc.).

Curtain Installation

1. Retrieve grease from loose parts box.
2. Wipe a thin layer of the provided grease on all curtain edges that slide against the re-feed blocks and guides. Jog the curtain to the closed and opened position several times until the grease is distributed evenly and the curtain moves freely without sticking, and wipe up any excess clumps of grease. Clean any excess lubricant that has collected on the curtain edges or guides, as this can impede proper functionality of curtain and/or photo eyes.
3. Run the Curtain all the way up so the bottom Curtain edge is about 1" above the upper Re-feed Block.
4. Lower the panel enough to manually insert the Curtain Edge Beads into the Re-Feed blocks on both sides. (Figure. 9)

CAUTION

Curtain edges must be lubricated or warranty will be voided.

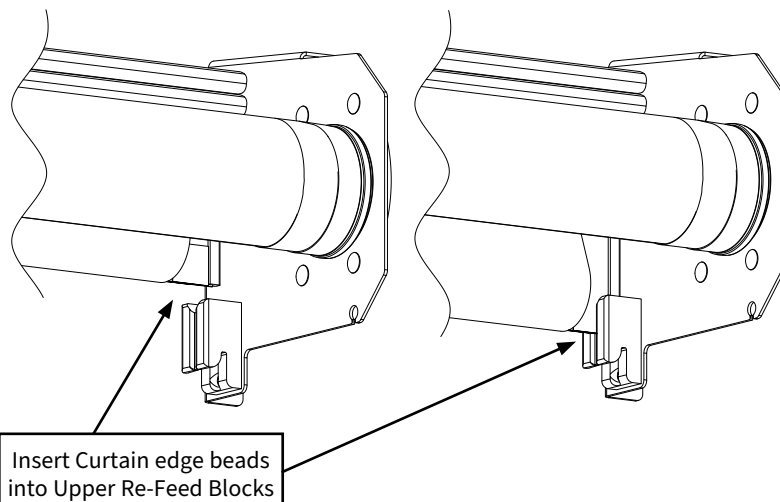
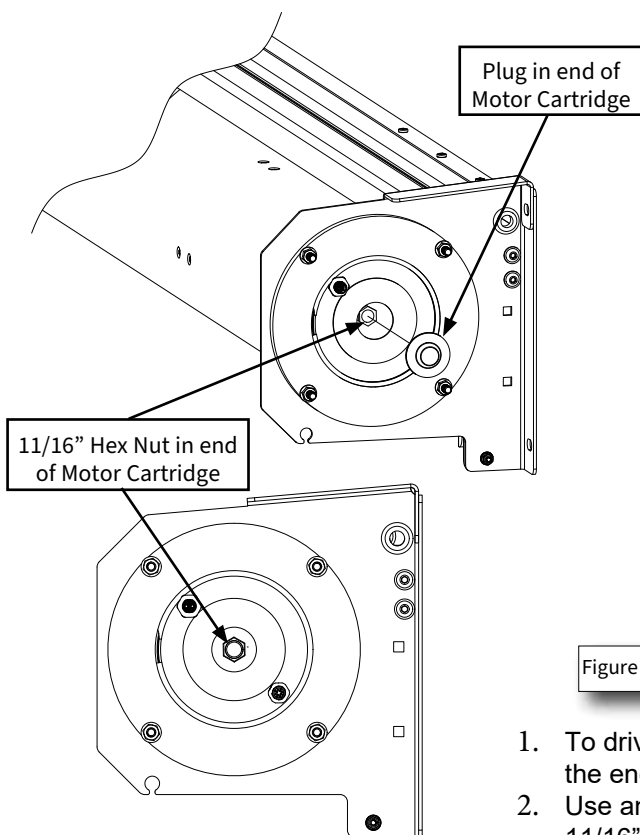


Figure 9: Inserting The Edge Beads into the Re-Feed Blocks.

CAUTION

DO NOT use an impact driver or a ball-end hex drive in the hex socket of the motor, it may damage the hex socket.



Figures 10A & 10B: Hex drive nut on Motor Cartridge.

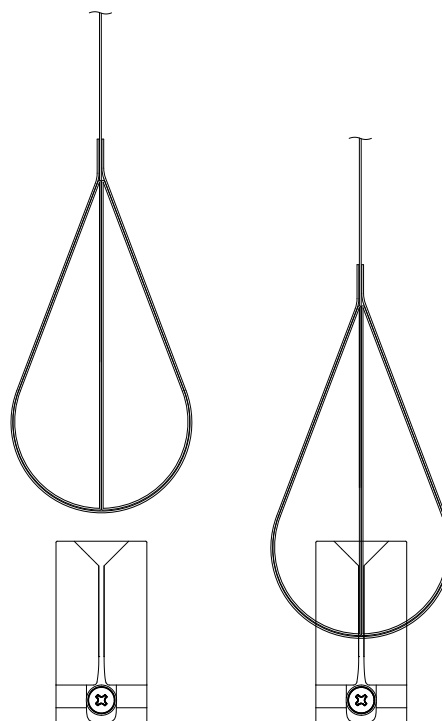


Figure 11: Correct routing of the Curtain through Re-Feed Blocks.

1. To drive the Curtain manually, Remove the plug from the end of the Motor Cartridge on the drive side.
2. Use an 11/16" standard socket & an extension, or an 11/16" deep socket to move the Curtain up & down manually. (Figure. 10A & 10B)

Curtain Installation Continued

Important Tips To Install The Door Properly:

- Insure the bottom of the door curtain is taught but not too tight when closed. A curtain that is too tight will prevent the door from closing properly.
- If the Curtain is too tight, or sagging at the top, middle, or bottom along the curtain vertically, loosen the closest mounting screws in the Face Frames and adjust the Face Frame's position horizontally at that point.
- Repeat this at several different heights, to ensure the Curtain is hanging straight, and is not overly tight or loose, to insure optimum operation and sealing.

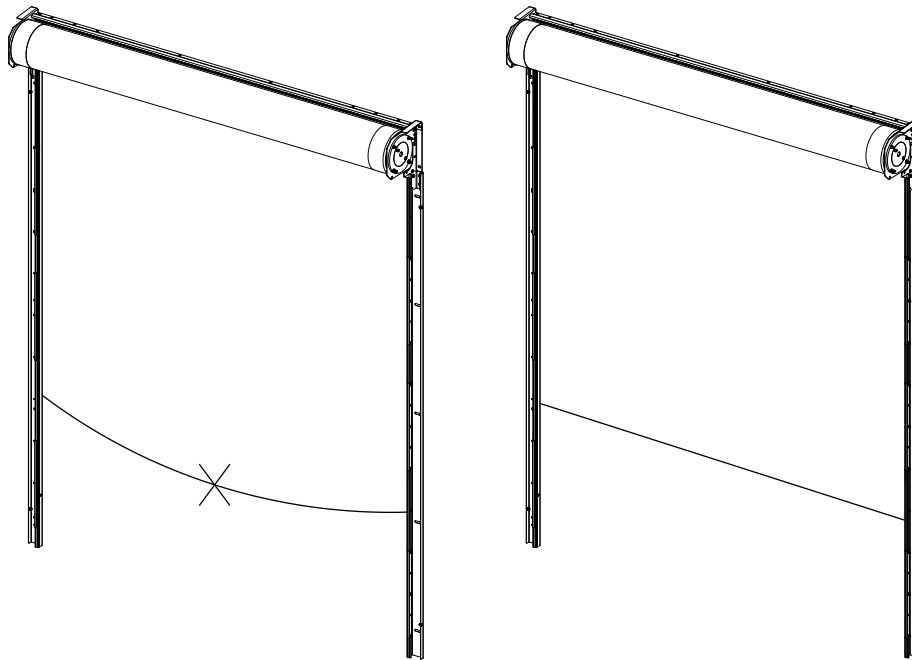


Figure 12: Adjusting Face Frame position.

Install The Door Correctly:

insure that when the Curtain is lowered that Curtain alignment is even from side to side. There should be no puckering or distortion of the Curtain when it is raising or lowering. If the Header has been installed level, and the Side Frames have been installed plumb and at the correct width, and adjusted as noted above, there should be no puckering of the Curtain.

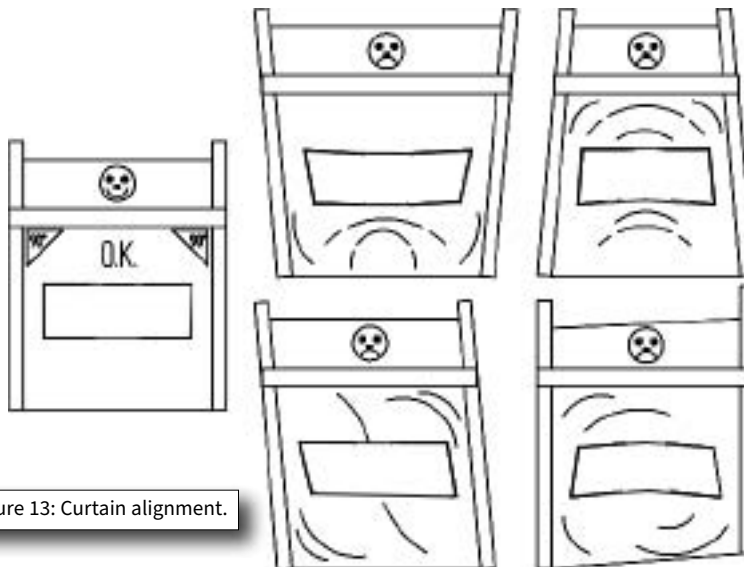


Figure 13: Curtain alignment.

Curtain Installation Continued

The Curtain should be level enough that the bottom edge of the Curtain lands in the gap between the upper & lower Re-feed Blocks (figure 14). If both ends of the Curtain do not land in the gap between the blocks:

1. Verify that the Curtain edges are covered in a thin film of the provided grease, to allow the curtain edges to wrap up tightly and evenly.
2. Position the Curtain so that the bottom edge is in-line with the gap between the Upper Re-Feed Blocks on one side.
3. Check that the other side is also between the Re-Feed Blocks.
4. If one side is NOT within the zone, run the Curtain all the way down to the ground.
5. Add a PVC Curtain Fabric Shim between the Drum and the Curtain where the Curtain attaches to the Drum, on the side that is lower.
6. Check for level and repeat if necessary until both sides can align within the upper limit target zones.

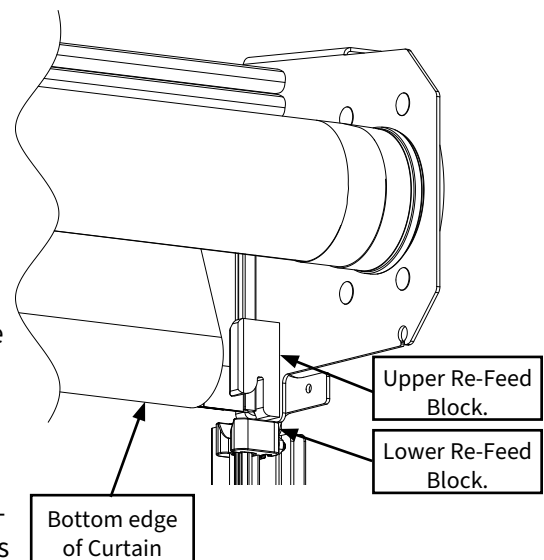


Figure 14: Position Curtain between the Re-Feed Blocks.

⚠ WARNING

Check all warnings weekly. Door may unexpectedly close. Failure to mount and maintain all warning labels and instructional literature could result in serious injury or death.

Warranty and Liability

Two warning labels are provided (figure 15).

Mount the warning labels approximately 60" from the floor. One label should be on the operator side on the mounting wall surface. The other label should be located on the other side of the wall, opposite of the operator.

Warranty claims will only be considered if the door was being operated and treated correctly.

In the event of unauthorized repairs and modification to the construction and the operation of the door, the warranty will be invalidated.

This rule also applies to damage resulting from defects that are the consequence of failure to follow the operating instructions or of inadequate maintenance of the door.

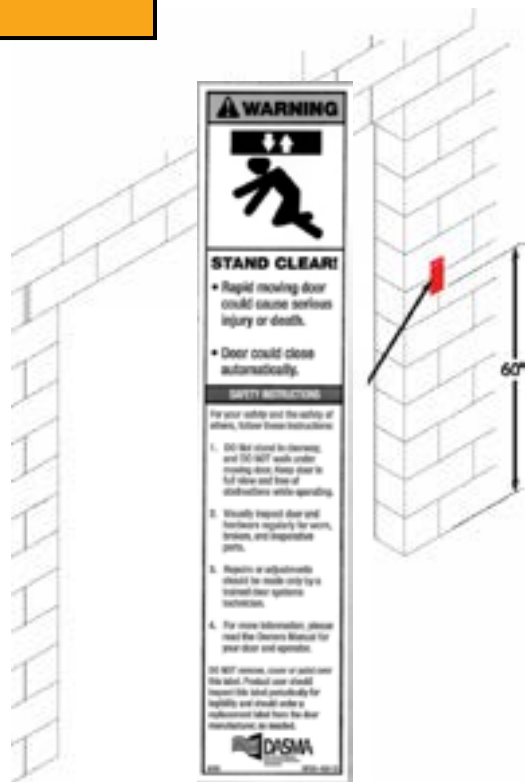


Figure 15: Warning Label locations.

Electrical Installation

Precautions With The Door Controller:



When the Door Controller has power supplied to it, the electrical elements and a number of operating controls are also 'live'. Never touch these elements. This is extremely dangerous. The cover of the Door Controller must always be closed.

If an emergency stop is activated, the Door Controller remains 'live'. If this is a threat to the safety of the staff, the power circuit must be interrupted by locking the main switch on the control box.

After turning off and locking the main power switch, it is always necessary to wait 5 minutes before starting work. This is the time required to discharge the capacitors of the Door Controller.

The Door Controller has integrated safety systems for stopping the door. A mechanical block, fluctuations in voltage and interruptions of the power supply, can also bring a door to a stop. This is shown with a fault message on the Door Controller screen. After locking the main switch, and having removed the blockage, the main switch has to be unlocked and powered back on.

In the event of work (on the electrical and/or mechanical part of the installation), the power supply to the Door Controller must be switched off; to do this, the main switch on the control box must be locked.

⚠ WARNING

Control box contain HIGH VOLTAGE! The following procedures should be performed by qualified personnel only. Wiring must meet all local, state federal and international or other governing agency codes. Keep hands and body parts clear of high voltage areas. Failure to do so could result in serious injury or death.

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

NOTE

Wiring must be completed by a licensed electrician. All wiring connections must be in accordance with all local, state, federal, NEC or other governing agency codes. Reference electrical drawings shipped with door.

Refer to electrical schematic for connections.

1. Make sure the cable supplied is of sufficient length to enable location of control box where desired. Mount control box to a convenient location, leaving sufficient room for control box door to be opened.
2. All wiring should be installed and connected by a qualified electrician who is knowledgeable with NEC article 430 and with local regulations. Electrician should make sure that the voltage and frequency of the electrical supply corresponds with the motor data listed on the control box cover.
3. Do not wire any external activation devices until the door limits are set.

CAUTION

Protect and cover all electrical components inside the control box prior to drilling enclosure. Failure to do so may result in component malfunctions.

Wiring Layout

NOTE

- Any wiring by others MUST come into control box from bottom as shown, or warranty is void.
- Isolate High & Low voltage wires in separate conduit.
- Fused disconnect complying with applicable electrical codes must be supplied by **others**.

1. The cable from motor and brake must not be spliced. Run these cables to control box (Figure 16).
2. From a fused disconnect, route power supply wires to the control panel and connect to incoming power block. Also attach the ground wire to the control panel lug.
3. All connections for motor, brake, encoder, photoeyes, and BPS system, along with any field added devices should be made per the schematic.
4. All wiring connections to be terminated in the Control Box.
5. If using an induction loop system, all loops should be in series.

Install the control box at a location agreed with the user. Check that the power supply agrees with the connections of the transformer, motor, and Door Controller. If necessary, modify.

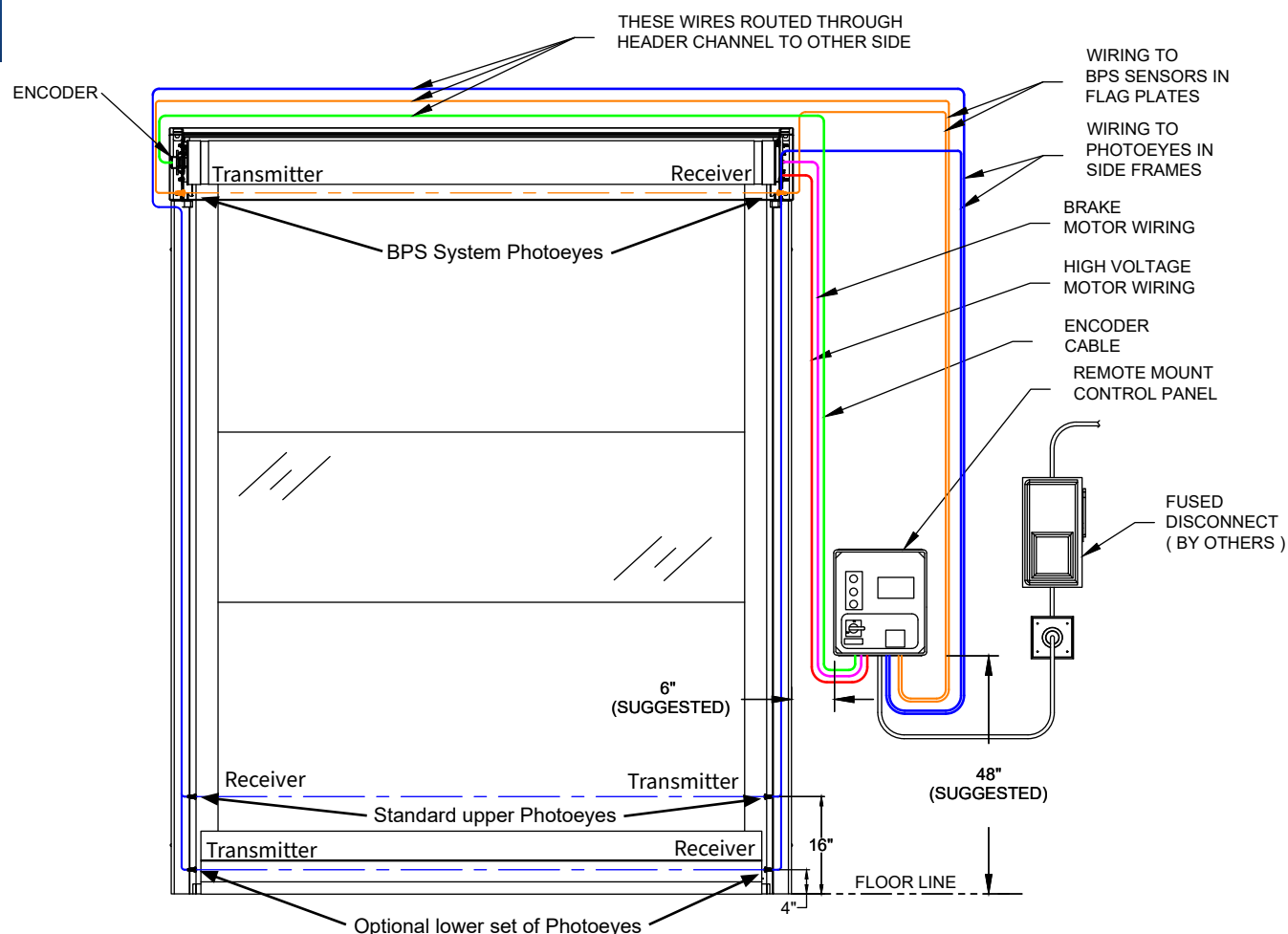


Figure 16: Wiring layout.

Control Panel typical Wiring

Typical Control Box wiring is shown below. Wiring specific to your door will be shown on the wiring diagram included with your door.

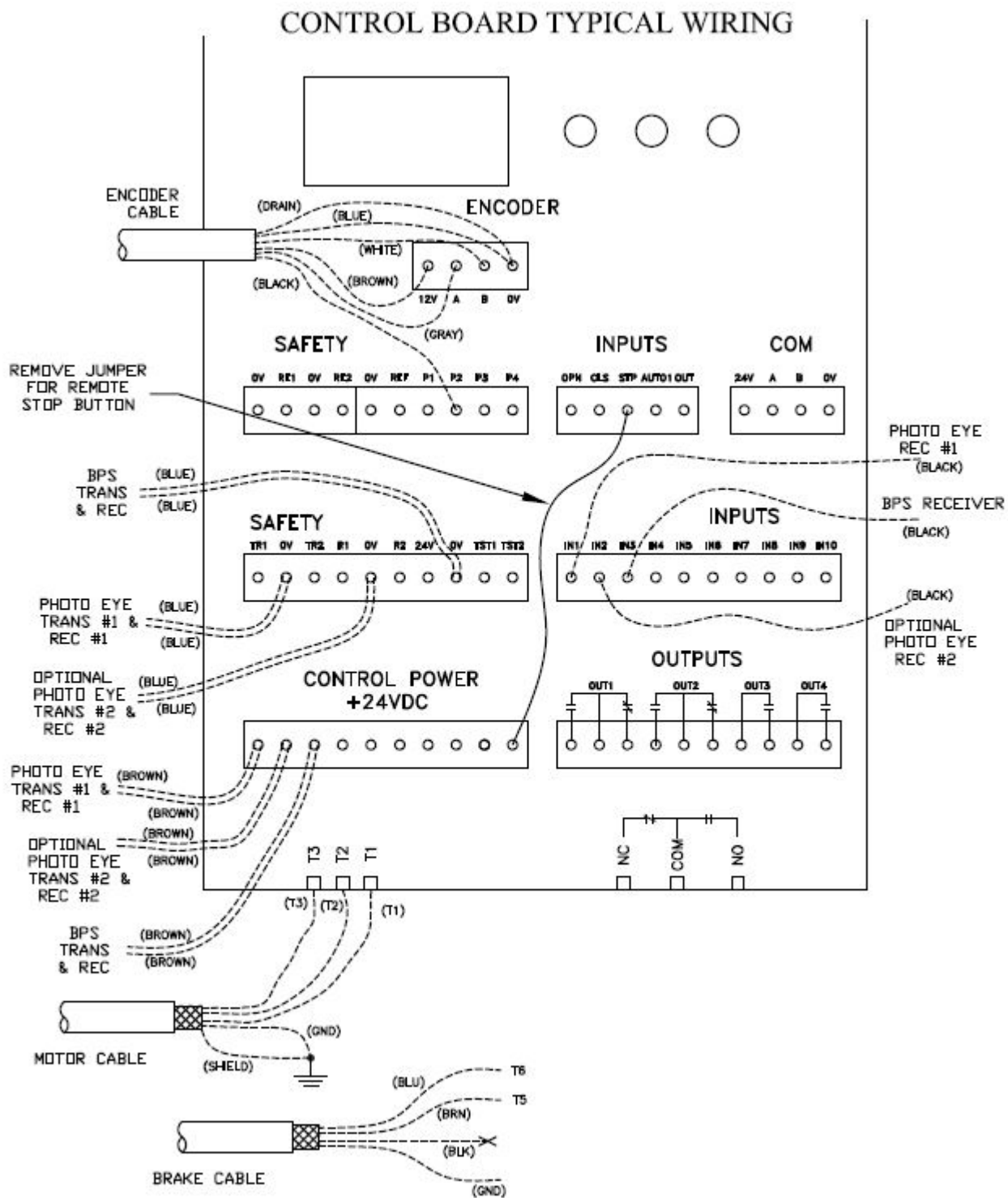


Figure 17: Typical Control Box Wiring.

Electrical Installation Continued

Connect the following in accordance with the electrical diagram and the specific notes supplied with the door:

- The motor and brake cables - **have shielding that is required for proper drive operation.**
- The Encoder Cable that controls the OPEN/CLOSED positions of the door.
- The Photo-eye and BPS system wire(s) from each side frame (see illustrations for routing).
- Any additional remote added devices and control wiring.

NOTE

Do not splice any of the supplied cabling. Cables may be shortened if needed.

Wire routing for Photoeyes & BPS System

Note: Wiring shown with Control Panel mounted on the Drive Side.

INSTALLATION

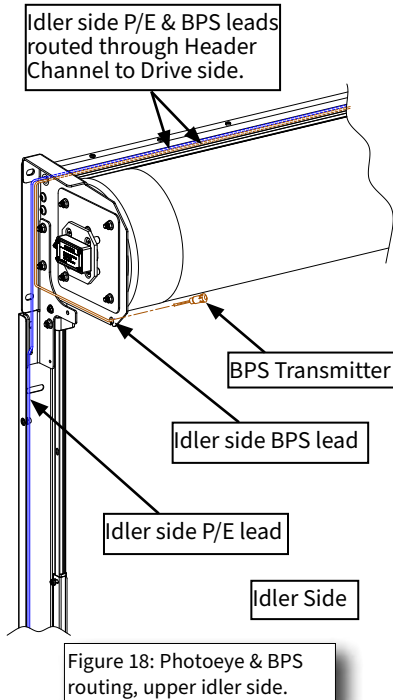


Figure 18: Photoeye & BPS routing, upper idler side.

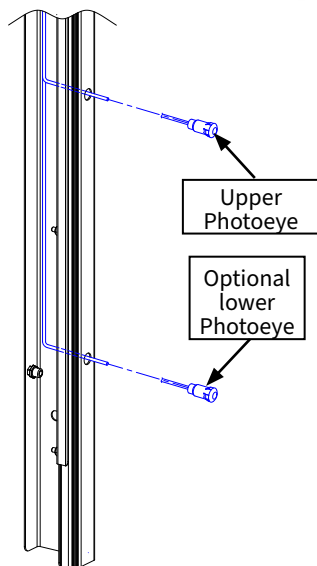


Figure 21: Photoeye routing, lower drive & idler side.

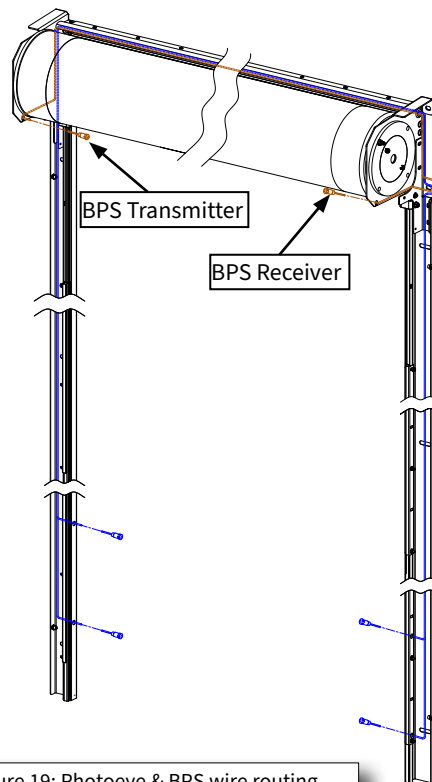
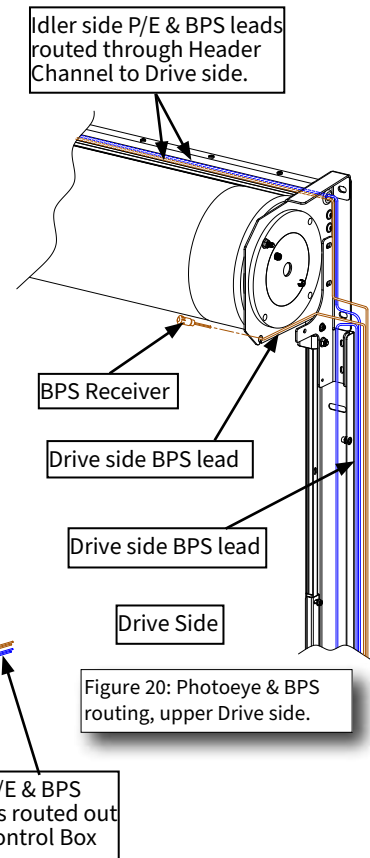


Figure 19: Photoeye & BPS wire routing.



1. Insert Photoeye(s) and BPS Sensors into holes in Face Frames and Header Plates. Face Frame Covers must be off for routing wires.
2. Route the leads on idler side up through Face Frame channel, through grommet in idler side Header Plate, and through Header Channel to drive side of Header (Figure 18 & 20).
3. Insert BPS Sensor Photoeye into hole in lower front corners of Header Flag Plate. Route lead along with Photoeye lead(s) through Header Channel (Figure 18 & 20).
4. Use the provided string to pull the wires through the gasket channel. Route leads down the outside of drive side Face Frame to Control Box (Figure 19).
5. On Drive side, route the leads up through Face Frame channel, over the top of the Face Frame, and down the outside of drive side Face Frame to Control Box (Figure 20) (some components hidden for clarity).

Table 01 - Control Box Descriptions Table

Item	Description
OPEN button	Opens door when pressed.
STOP button	Stops door when pressed.
CLOSE button	Closes door when pressed.
Power Disconnect Handle	Applies/removes AC input power when rotated 90°. Vertical position (shown): Power applied / horizontal position: Power disconnected.
Display	<p>The display provides the primary user interface.</p> <p>The display is visible through the enclosure door. It provides controller and door status indications during normal operation. It also provides programming and setup menus, and error indications.</p>



Figure 22: Control Box Detail

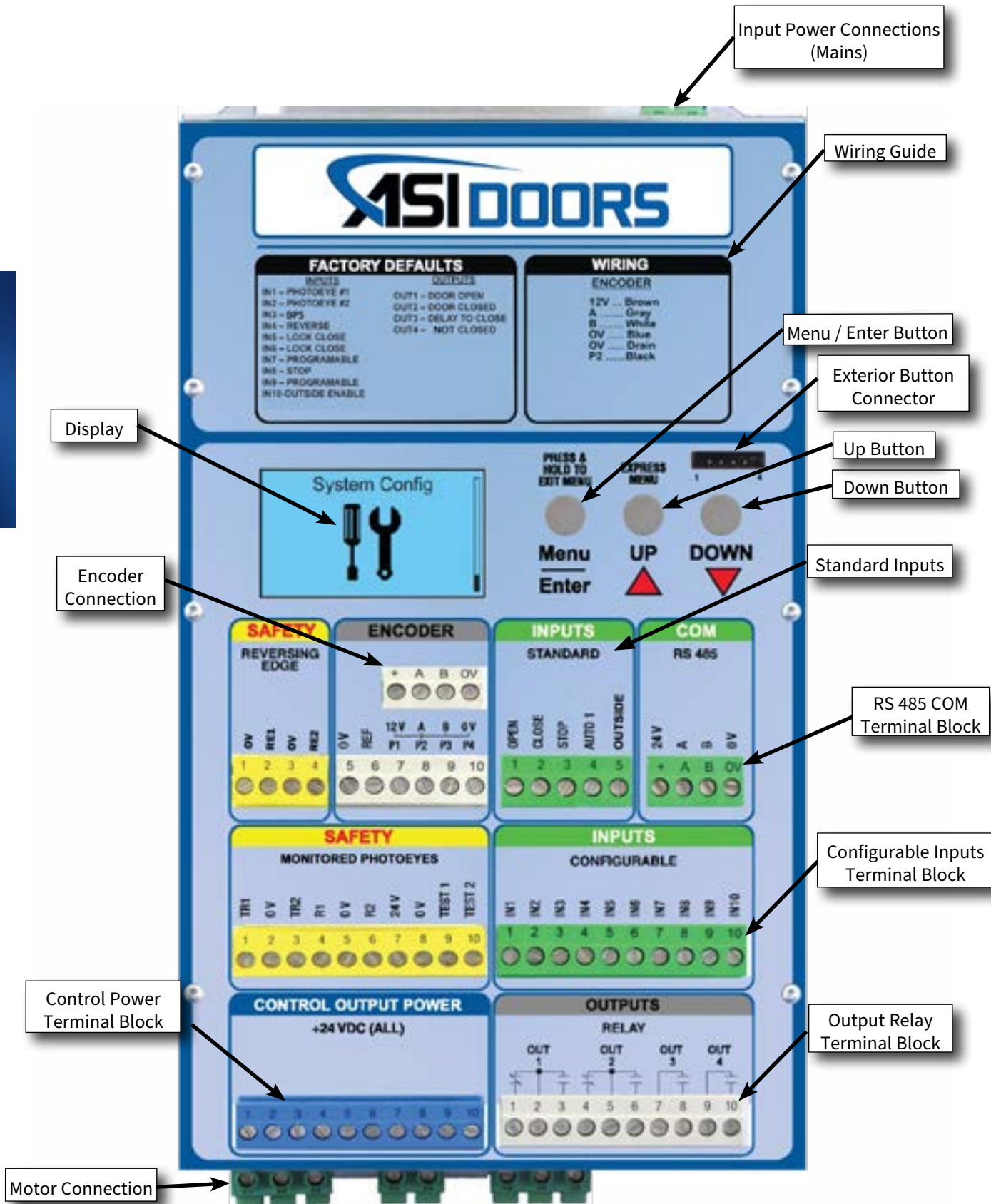


Figure 23: Controller Features

⚠ 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 serious injury or death.

Table 01 - Controller Feature Descriptions Table

Item	Description
Menu/Enter button	Press once to enter a menu or confirm a selection during programming. Press and hold to exit the current menu or cancel a programming selection.
UP ▲ button	During programming and setup, press to navigate through menus or to jog the door in the open direction in certain menus. While on an IDLE screen, press to enter EXPRESS menu.
Exterior Button Connector	Connects the ribbon cable from the OPEN/STOP/ CLOSE switches on the enclosure door to the DGII.
DOWN ▼ button	During programming and setup, press to navigate through menus or to jog the door in the closed direction in certain menus.
Motor Connections	Terminal blocks for connecting the motor are located on the bottom of the controller.

Controller Functions

Controller Power-up

NOTE

NOTE refer to electrical schematics for wiring connections.

After all connections are made, apply power to the controller.

The controller powers up when ac power is applied. Confirm that the following start-up screens are displayed when the controller is powered up. Screens are shown for 3 seconds each. Button presses or other inputs are ignored during start-up screen display. An information screen sequence takes place whenever the controller is powered on.

When the power-on sequence is complete, the idle screen is displayed. If there is a problem with a connection or with the controller, an error code may be displayed.

Using the Menus

- To enter any menu or selected sub-menu, briefly press the menu/enter button.
- Use the ▲ and ▼ buttons to scroll through menu options. The current selection is highlighted in black with light text.
- To exit any menu, press and hold the menu/enter button.

Entering a Passcode



Some menus may require a 3-digit passcode to gain access. This helps prevent unauthorized personnel from changing the controller settings.

The code request screen shown at left appears when a menu is protected by an access code. Use the ▲ and ▼ buttons to enter the code, then press the menu/enter button to accept the code.

Menu Structure

Figure 24 is a diagram showing the Controller menu structure. The key presses to navigate through the main menus are also shown (Menu/Enter, ▲ and ▼). To exit any menu, press and hold the Menu/Enter button.

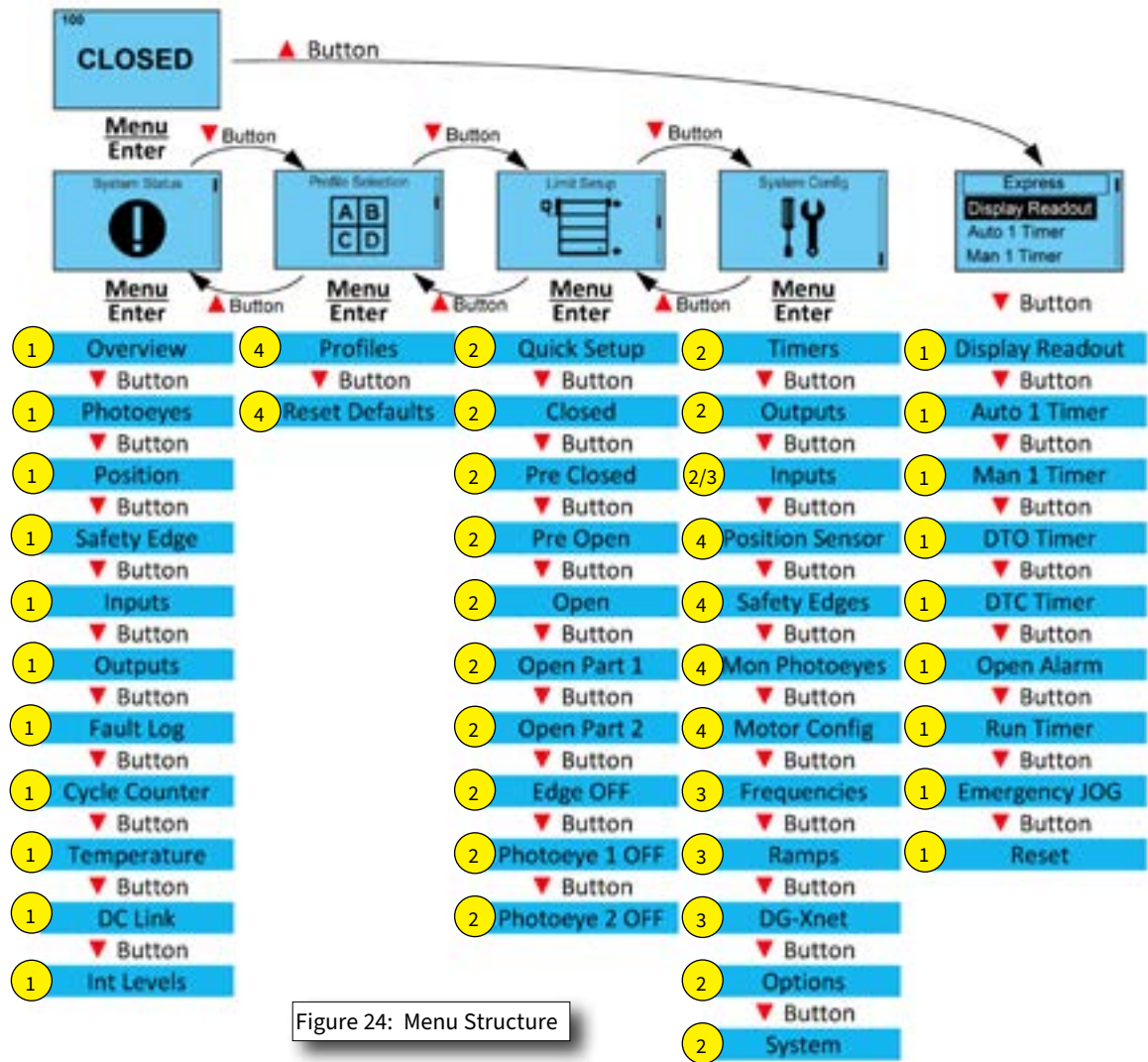


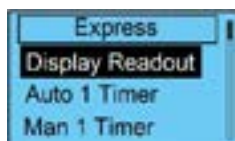
Figure 24: Menu Structure

NOTE

NOTE the table at the right refers to the numbers by each menu item. Different menu items have different levels of security, and higher level items require a higher level password to access.

1	User Level
2	Tech Support Level 1
3	Tech Support Level 2
4	OEM Level

Express Menu



The express menu, allowing rapid programming, is available from the idle screen by pressing the ▲ button. The express menu provides options to the user to quickly access certain door parameters and view of internal controller parameters for troubleshooting. Press the ▼ button to scroll down through the express menu. Press and hold the menu/enter button to exit the express menu when finished.

Display readout

The following options are available for the controller display. The options other than **normal** are intended for use as troubleshooting aids only. The display should always be set to **normal** when the door is in use.

Use the ▼ button to highlight an option, then press the menu/enter button to select it.

Normal: select to return the display to the normal idle screen display after troubleshooting is complete.

Motor Current: displays the motor current when selected. This is useful for performing troubleshooting and is not intended for use as the normal operational display.

DC Link: displays the internal DC voltage when selected. This is useful for performing troubleshooting and is not intended for use as the normal operational display.

Position: displays the door's current position.

Measured Frequency: displays the measured frequency from the motor in Hz. This value correlates to the speed of the motor.

Output Frequency: displays the current frequency being applied to the motor. This value correlates to the speed of the motor.

Auto Close Timer

The time period after which the door will close automatically after an auto input has been activated and released, in seconds and tenths of seconds. To edit the time interval, use the ▲ and ▼ buttons to select the desired value, then press the menu/enter button to store it. The message stored is briefly displayed, then the screen returns to the express menu.

Setting the value to zero disables the auto close timer.

Manual Close Timer

The time period, in seconds and tenths of seconds, after which the door will close automatically, after a manual input has been activated and released. To edit the time interval, use the ▲ and ▼ buttons to select the desired value, then press the menu/enter button to store it. The message stored is briefly displayed, then the screen returns to the express menu.

Setting the value to zero disables the manual close timer.

DTO Timer

Delay-to-open time period, in seconds and tenths of seconds. After an open input is activated, the controller will delay the opening of the door by the set amount. To edit the time interval, use the ▲ and ▼ buttons to select the desired time, then press menu/enter button to store it. The message stored is briefly displayed, then the screen returns to the express menu.

DTC Timer

Delay-to-close time period, in seconds and tenths of seconds. After a close input is activated, the controller will delay the closing of the door by the set amount. To edit the time interval, use the ▲ and ▼ buttons to select the desired time, then press the menu/enter button to store the value. The message stored is briefly displayed, then the screen returns to the express menu.

Open Alarm

Use this timer, along with an output whose function has been set to open alarm, to signal if a door has been left open for too long.

Open alarm timer, in seconds and tenths of seconds. To edit the time interval, use the ▲ and ▼ buttons to select the desired value, then press the menu/enter button to store it. The message stored is briefly displayed, then the screen returns to the express menu.

Setting this value to zero disables the open alarm.

Run Timer

Run timer value, in seconds. The run timer is a safety feature that stops door movement if the controller detects that the door is still in motion after the run timer period elapses. Set the run timer to a value of 1 to 4 seconds longer than the time required to open or close the door, whichever is greater. The run timer starts every time the door moves. If the door does not stop moving before the run timer expires, the DGII® stops the door.

To edit the time interval, use the ▲ and ▼ buttons to select the desired value, then press the menu/enter button to store it. The message stored is briefly displayed, then the screen returns to the express menu.

Emergency JOG

Provides the ability to jog the door using the ▲ and ▼ buttons. Any connected safety inputs are ignored to allow unrestricted door movement.

▲ CAUTION

Any connected safety devices are ignored
to allow unrestricted door movement

Setting Door Limits

NOTE

NOTE this door is equipped with an encoder system to monitor door position. Before the door can be put into operation the door limits **MUST** be set. This process involves jogging the door to the respective positions and setting the limits.

⚠ WARNING

Warning keep doorway clear during calibration mode rapid moving door could cause serious injury or death. Follow instructions for proper manual operation failure to heed these warnings could result in equipment and/or property damage, bodily injury or death.

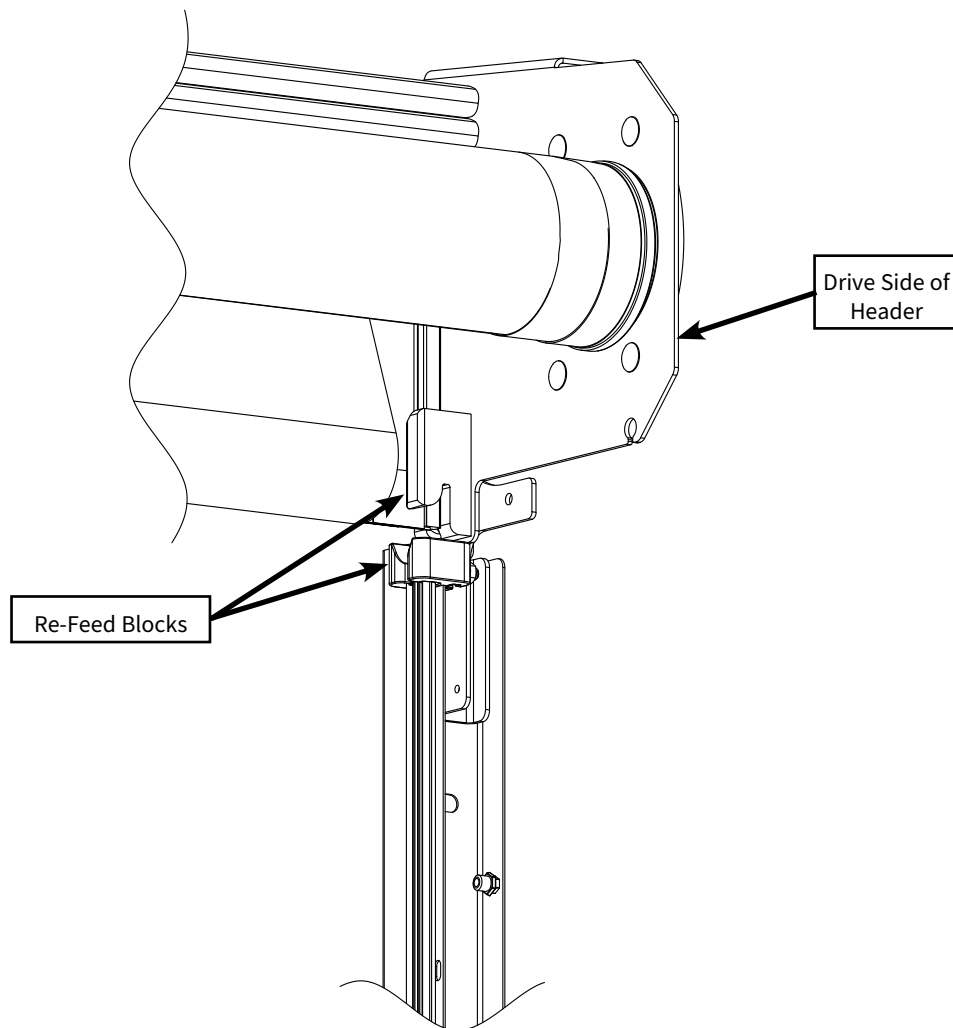


Figure 25: Operator side Components

Setting Door Limits Continued

1. Manually move door approx. 24" from either end position.
2. Press the Menu/Enter button (Figure 27).
3. Using the up & down arrows go to LIMIT SET-UP screen.
4. Press the Menu/Enter button.
5. If prompted for password use 777 and press Menu/Enter button.
6. Go to QUICK SETUP and press the Menu/Enter button.
7. Follow controller instructions on the display screen.
 - a. Using the UP & DOWN buttons jog door through full door travel 2 times to confirm there is no binding or obstructions. Correct as needed. (Door could be phased wrong, if so, use opposite button to move door to the center position, DO NOT re-phase motor).
 - b. Press Menu/Enter.
 - c. Using the Up & Down buttons, jog the door to the approximate center position.
 - d. Press Menu/Enter.
 - e. The controller now needs to check motor phasing. Press and hold the up button. The door will move approximately 18" in a direction and stop automatically.
 - f. Confirm door direction.
 - i. Press the UP button if the door went up.
 - ii. Press the DOWN button if the door went down.
 - g. The door is now ready to set the open limit. Using the Up & Down buttons, jog the door to the desired open limit (See Figure #14 on Page 13 & Figure #25 on Page 26).
 - h. Press Menu/Enter to complete open setting.
 - i. Door is now ready to set the upper Photo-eye position. Using the Up & Down buttons, jog the door to just above the highest Photo-eye in the Side Frame.
 - j. Press Menu/Enter to complete photo-eye setting.
 - k. The door is now ready to set the close limit. Using the Up & Down buttons, jog the door to the desired close limit.
 - l. Press Menu/Enter to complete the close setting.
8. Limit setup is now complete. The controller will return back to the main menu.
9. If the door's reversing edge system has already been paired with the controller, test door operation. If additional adjustments are needed, refer to "Minor Door Adjustments" section.
10. If the doors reversing edge has not been paired with the controller, proceed to the "Pair Transmitter & Controller" instructions before testing door operations.

Minor Door Adjustments

1. Press Menu/Enter.
2. Using the up & down arrows go to the LIMIT SET-UP screen.
3. Press the Menu/Enter button.
4. If prompted for password use 777 and press Menu/Enter button.
5. Go to the desired item to adjust and press Menu/Enter.
6. Adjust value and press Menu/Enter.
7. Repeat as needed for additional adjustments.
8. When complete, the controller must be returned to the main screen. Press and HOLD the Menu/Enter button until you are on the main screen.



Figure 26: Control Box

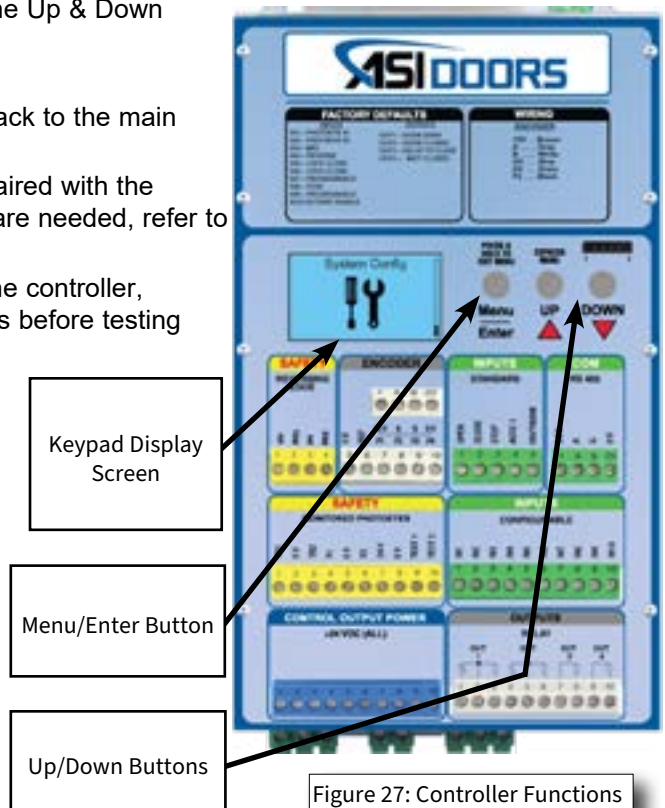


Figure 27: Controller Functions

Pair Transmitter & Controller:

The wireless transmitter **MUST** be paired with the controller for the reversing edge system to function correctly. Follow the steps below to pair a transmitter with the door controller. These steps must be followed when setting up the door for the first time, replacing the transmitter, or re-pairing the existing transmitter.

- 1 On the controller, press “menu” (Figure 28)
- 2 Scroll to “system config”
- 3 Press “enter”
- 4 Enter code “777”
- 5 Press “enter”
- 6 Scroll to “options”
- 7 Press “enter”
- 8 Select “SeyWave host”
- 9 Press “enter”
- 10 Scroll to “clear all”
- 11 Press “enter”
12. Press “UP” button to Reset SeyWave. Clearing SeyWave will appear on the screen.
13. Scroll to “Pairing” on the controller and press enter. For the next 10 seconds the controller will be “Looking for Remotes”.
14. Double bump the bottom edge with your hand within a 2 seconds interval (approx. 10”-12” from outer edge of door) to pair the transmitter to the controller.
15. If the pairing is successful, the controller will beep.
 - a. If the beep is not heard and the controller still displays “Looking for Remotes” repeat step 14 until the beep is heard.
 - a. If the beep is not heard and the controller no longer displays “Looking for Remotes” repeat steps 10-14.
16. After successfully pairing press and hold the “enter” button to return to the main menu.

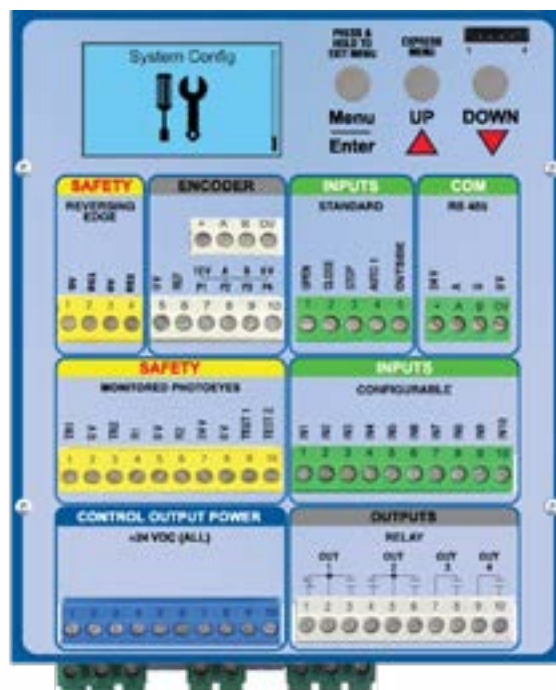


Figure 28: Controller Detail

Test Reversing Edge:

- 1 The reversing edge is embedded in the bottom of the curtain. Test the reversing edge while the door is closing by blocking the bottom of the curtain near the center of the door with your hand to assure the reversing edge is functioning properly (Figure 29). Test at the location shown in figure 30. It should reverse on contact.
- 2 Close the door fully.

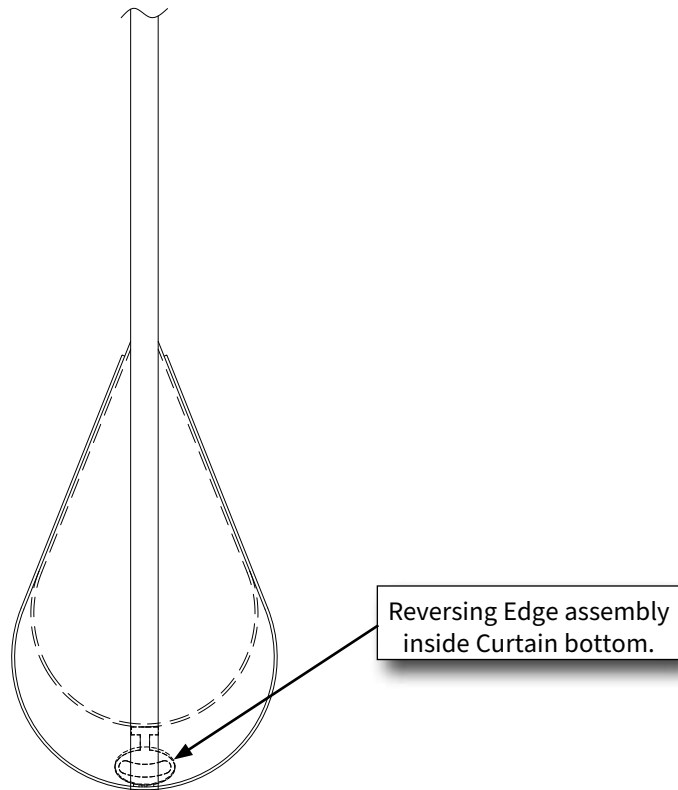


Figure 29: Testing the Reversing Edge

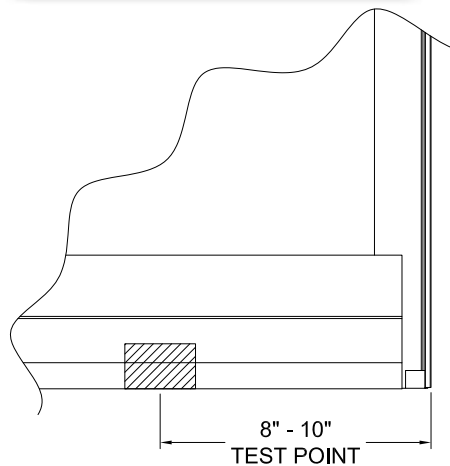


Figure 30: Location to test reversing edge

Curtain Travel Troubleshooting

Trouble shooting & corrective action steps:

- 1) Ensure that the guides have not been damaged. This could cause the door to travel unevenly through the guides, thus affecting overall performance and could result in back roll issues.
- 2) Ensure that the guides are installed plumb & square and the barrel is level (review installation instructions). It may also be necessary to move one or both guides “in”. This is usually the case in extreme air pressure applications. This will require removing the guide cover(s), loosening the mounting bolts, and moving the guide(s) in slightly.
- 3) If the application temperature, on either side of the opening is subject to falling below 40 degrees, the door may have trouble closing. Consult with the factory for possible options if this occurs.
- 4) Ensure that the dimension between the Header Flag Plates is within tolerance (review installation instructions). The lower half of the Flag Plates may be tapered inwards to allow ease of re-feeding the curtain through the upper portion of the guide blocks. The Curtain being too taut between the guide blocks could result in poor door performance.
- 5) Ensure that both sides of the curtain align within the gap between the upper and lower Re-Feed Blocks (review installation instructions). Not aligning them could result in uneven door travel, thus possible malfunctioning of door travel during normal operation and breakout situations.

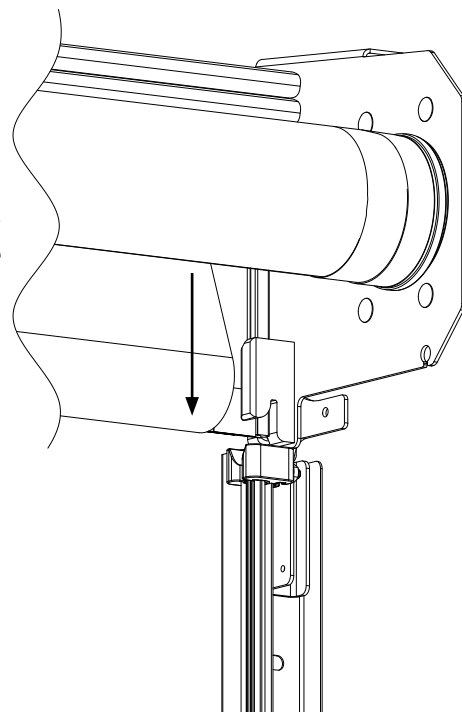


Figure 31: Curtain travel through the Re-Feed Blocks.

Face Frame Cover Installation

Install Face Frame Covers:

1. After all electrical setup is complete, and Photo-eye and BPS Sensor wiring is done, install the Face Frame Covers (Figure 32).
2. Retrieve the 1/4-20 x 5/8 Button Head screws and the LH & RH Face Frame covers.
3. Install the Face Frame covers using the 1/4-20 x 5/8 Button Head screws.

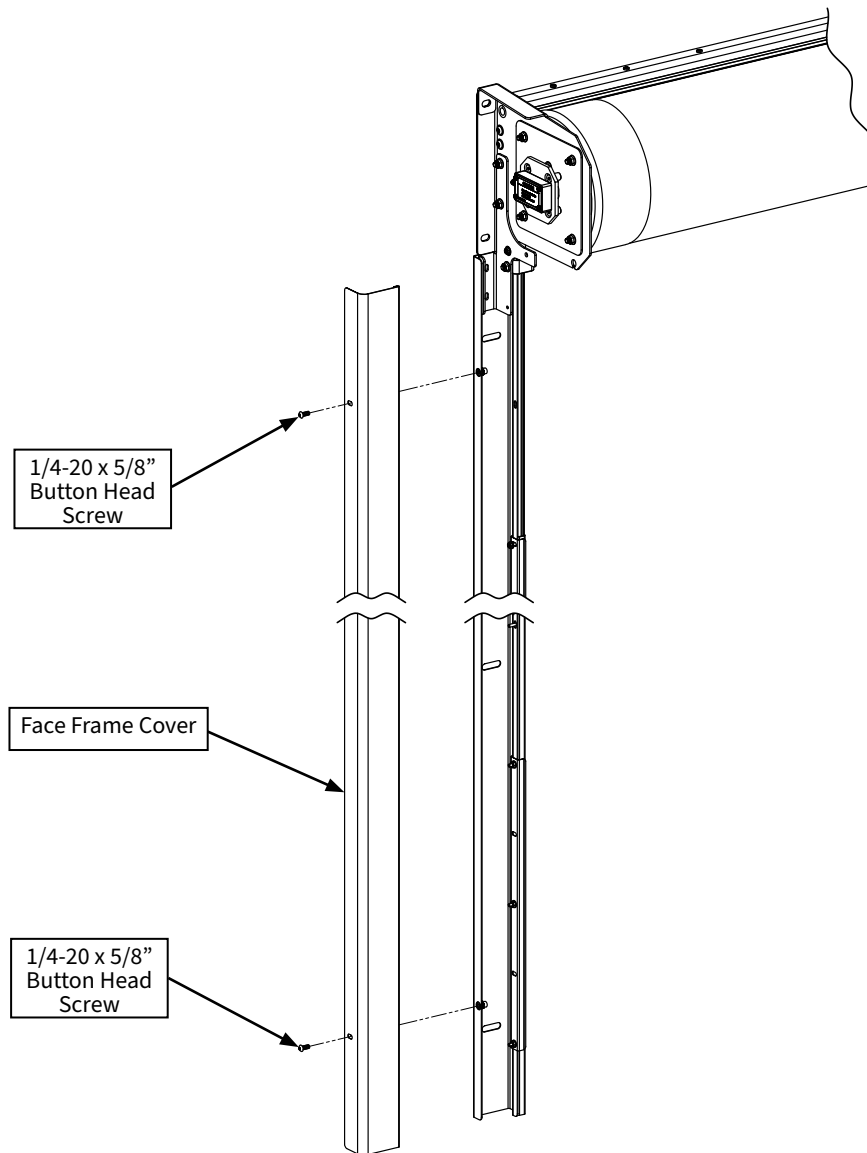
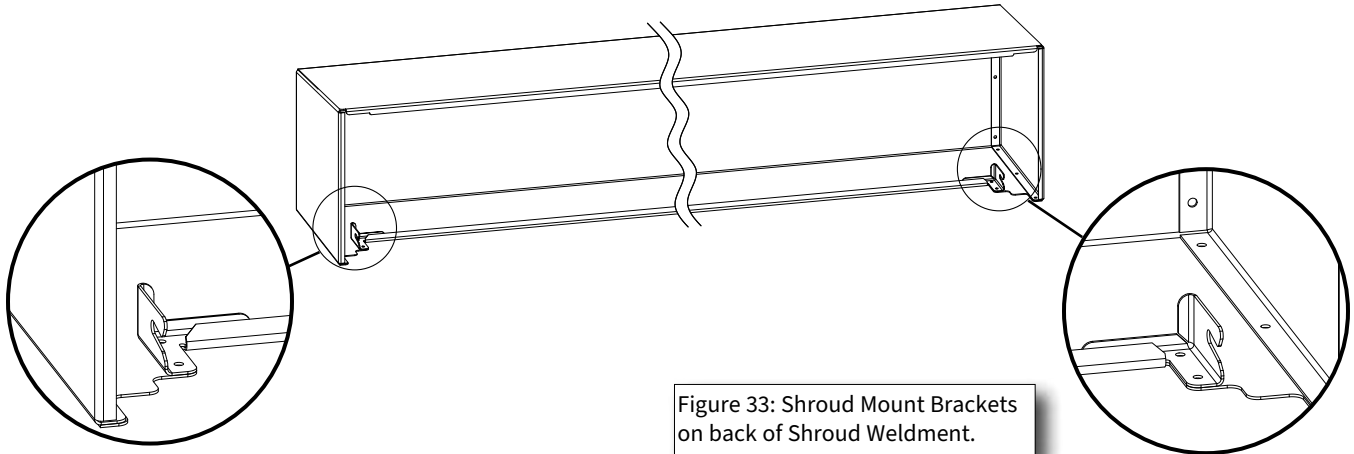


Figure 32: Install Face Frame Covers on RH & LH Face Frames.

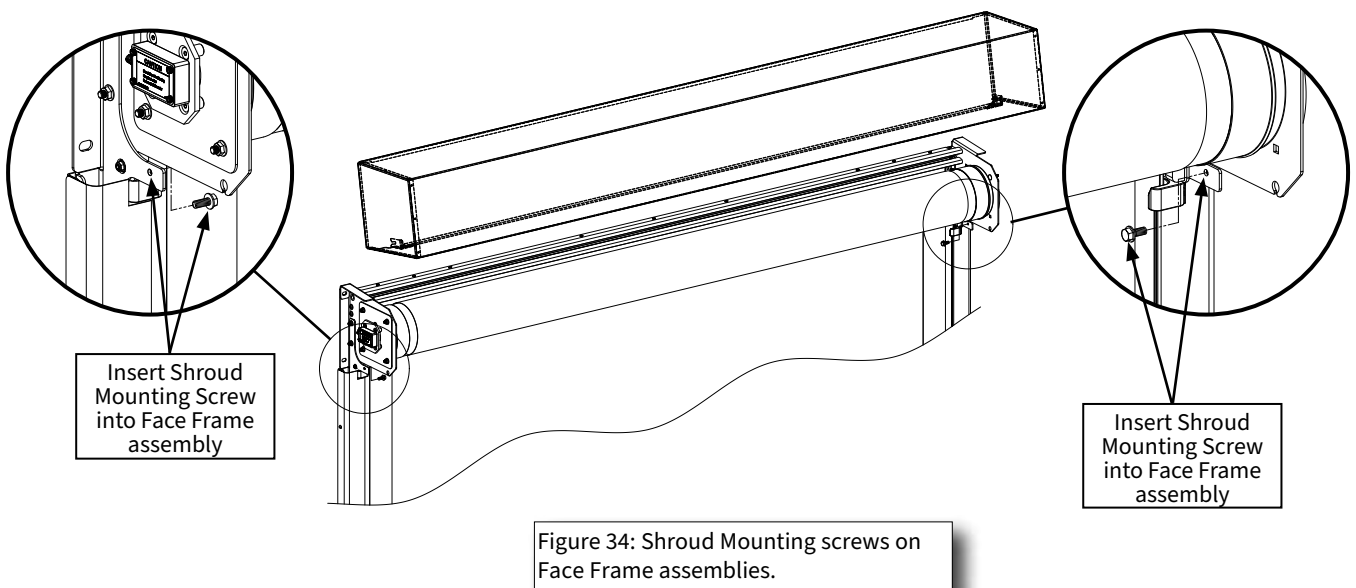
Shroud Installation

Shroud Install steps:

1. To mount the shroud, retrieve the Shroud Weldment from the shipping box. Also retrieve (2) 5/16-18 X 5/8" Large Flange Screws from the loose parts box.
2. Install the (2) 5/16-18 X 5/8" Large Flange Screws into the holes on the inside surfaces of the Face Frame Brackets, shown in figure 34 below. Leave a 1/4" - 3/8" gap between the flanges of the screws and the inside surfaces of the Face Frame Brackets.
3. Using 1 person on each end of the Shroud, each in a scissors lift on each end of the door opening, lift the Shroud Weldment into approximate position in front of the Door Header.



4. There are 2 Shroud Mounting Brackets on either end of the Shroud Weldment (Figure 33). These brackets have slots that will slide onto the screws you just installed on the RH & LH Face Frame Brackets. The outside surfaces of the Shroud Brackets must go between the inner surfaces of the Face Frame Assemblies.



Shroud Installation Continued

5. Position Shroud in front of header and move horizontally towards header & wall. (Figure 35)
6. Position the Shroud so that the Shroud Mount Brackets on the Shroud Weldment are approximately centered between the Face Frame mount surfaces. Move the Shroud towards the wall.
7. Slide the top rear flanges of the Shroud along the angled flanges of the Header Flag Plates (Figure 36) as you push the shroud into position.
8. Push the Shroud towards the wall until the top rear flange of the shroud hooks behind the rear top flanges of the Flag Plates and guide the slots of the Shroud Mount brackets towards the Shroud Mounting Screws in the Header Flag Plates. (Figure 37).
9. When completed, the Shroud should be held in place by the top rear flange being hooked behind the Flag Plate flanges, and the mounting screws on the Flag plates should be fully in the slots on the Shroud Mounting Brackets.
10. Tighten the 2 Large Flange mounting screws to 45 inch-pounds.

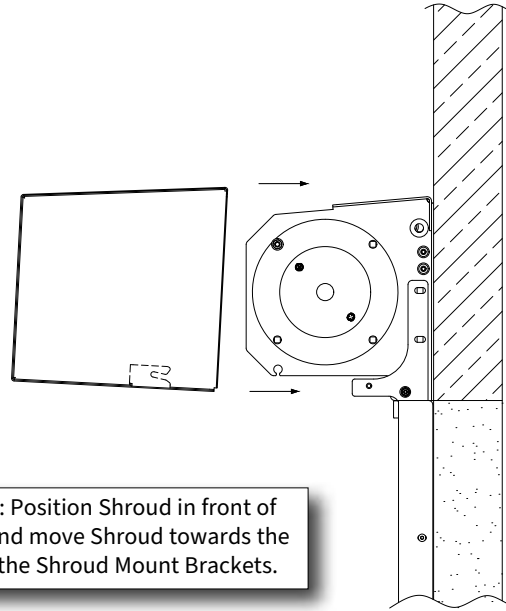


Figure 35: Position Shroud in front of Header and move Shroud towards the wall and the Shroud Mount Brackets.

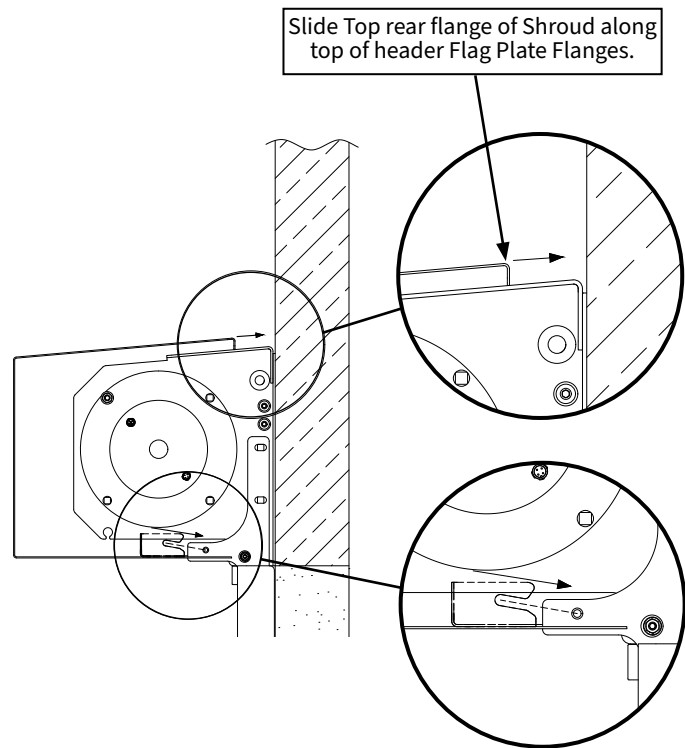


Figure 36: Slide Shroud Support Brackets onto mounting screws on Header Flag Plates.

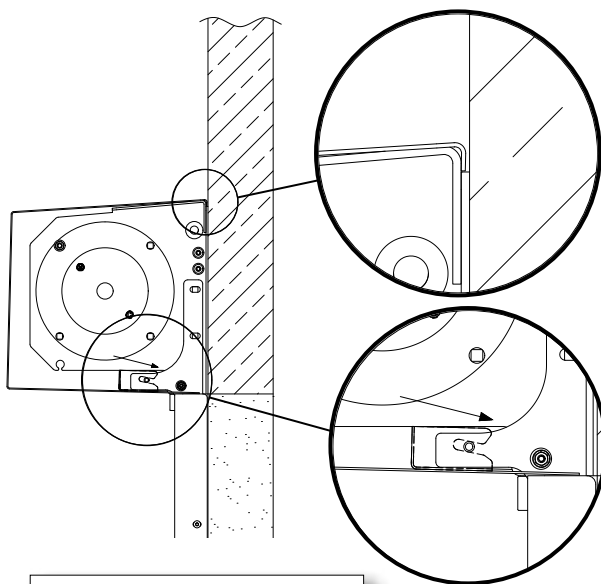


Figure 37: Fully seat Shroud onto Shroud Mount Screws.

Troubleshooting

Table 04 - Troubleshooting Table

Problem	Probable Cause	Corrective Measures
A. Motor will not start.	1. No power.	1. Check power switches, fuses and connections. Verify 3 phase voltage at operator.
	2. Control circuit breaker tripped while stopping.	2. Reset – determine cause.
	3. Wired for wrong voltage.	3. Check transformer, motor and overload relay for proper wiring.
	4. Loose or disconnected wire.	4. Check wiring and connections.
	5. Defective actuator.	5. Check actuator and wiring with ohm meter.
	6. In manual mode.	6. Set chains to auto mode.
	7. Brake not releasing	7. Check wiring and connections.
B. Motor runs but “lacks power”.	1. Single phasing	1. Check power supply—Verify 3 phase voltage. Check contactor/motor wiring.
	2. Blown Fuse.	2. Replace fuse.
C. Inconsistent starting, stopping and reverse	1. Loose or poor connection	1. Check connections in control circuit.
D. Reversing edge works on opening cycle instead of closing.	1. Phase sequence reversed	1. Shut off power. Change any two of the three line leads.
E. Door closes and opens	1. Reversing edge switch signaling to reopen.	1. Check lower limit and shorten travel so door does not hit at bottom.
F. Door Opens out of square	1. Material wrapping unevenly	1. Install shim material (See Curtain Installation section)

Error Codes

Controller Error Messages



If an error occurs, it is displayed in a window occupying the entire display similar to the example shown at left. Find the error code in the tables included in this chapter to determine the cause and corrective action.

Error messages originate in one of three categories:

- Inverter (power faults): see Table 05 below.
- Door control codes related to the motor and encoder: see Table 06 on page 36.
- Option codes related to optional equipment used with the Controller: see Table 07 on page 37.

Table 05 - Inverter Error Codes

Code	Description	Cause	Corrective Action
UU	DC Link low (Top Priority)	The incoming mains voltage is too low.	View System Status - DC link to check that the voltage is within the range shown.
OU	DC Link high (Medium Priority)	Either the incoming mains voltage is too high or the deceleration rate is too short	View System Status - DC link to check that the voltage is within the range shown. Decrease the deceleration ramps.
OC1	Over current 210% (Medium Priority)	The motor current exceeds the inverter rating by 210%	View the motor current display to check the current delivered to the motor. Check the motor nameplate data to confirm that the correct controller model is being used. Check for mechanical obstruction or damage.
OC2	Over current 150%/30 sec (Medium Priority)	The motor current exceeds the inverter rating by 150% for more than 3 seconds	View the motor current display to see the current delivered to the motor. Check the motor nameplate data to confirm that the correct controller is being used. Check for mechanical obstruction or damage.
OC3	Over current during acceleration	Over current while accelerating	View the motor current display to see the current delivered to the motor. Decrease the acceleration ramps.
OC4	Over current DC/Brake (Medium Priority)	Over current while DC braking	View the Motor Current display to see the current delivered to the motor. Decrease the DC brake level.
OC5	Peak over current (High Priority)	Severe overload	Check for:
			• A short in the motor cable
			• Stalled motor
			• Mechanical or electrically damaged motor
			• If equipped with a parking brake, ensure that it is being released. Decrease the boost parameters.
OH	Controller overheat (High Priority)	The inverter is overheated	View System Status - Temperature to check that the reported temperature is within range. (Note: Temperature display shows raw analog counts and not actual temperature) Check ventilation and ensure fan, (if equipped), is operating. Reset the controller and confirm that the fan operates for 1 second during the power-up routine. Reduce the switching frequency and the DC brake level.
HE	Low internal 12V (Top Priority)	The internal 12VDC power supply voltage is too low	View the System Status - Int Levels to check that the voltage is within range. Check I/O wiring for shorts.
HE	Low internal 24V (Top Priority)	The internal 24VDC power supply voltage is too low	View the System Status - Int Levels to check that the voltage is within range. Check I/O wiring for shorts.

Table 06 - Door Control Error Codes

Code	Description	Cause	Corrective Action
E01	Slip error (Low Priority)	Mechanical overload (Slip Monitoring) or missing signal from encoder.	Check door for obstruction. Ensure the pulse output from the encoder is connected to terminal P2 on the controller. Verify that the encoder pulse output is set correctly.
E02	Direction Error – occurs during setup only. (Low Priority)	The direction of the motor is incorrect. The encoder count must increment positively while the door is moving in the open direction.	Use the Motor Direction parameter to set the correct direction for the motor and encoder. If the motor moves in the incorrect direction and the encoder is decrementing, set the motor direction parameter to Motor REV. If the motor moves in the correct direction but the encoder is decrementing, set the Motor Direction parameter to Encoder REV. If the motor is moving in the incorrect direction and the encoder is incrementing, then set the motor direction parameter to both REV.
E03	No Signal From Pulse Generator – occurs during setup only. (Low Priority)	No pulse input detected from the encoder.	Check door for obstruction. Ensure the pulse output from the encoder is connected to terminal P2 on the Controller. Verify that the encoder pulse output is set correctly.
E04	N/A	N/A	N/A
E05	Reference Switch Connection (Medium Priority)	The reference switch is shorted or broken.	Check the reference switch for damage and bad connections. Ensure the correct setting for the Reference parameter. Perform a quick setup to reset the position limits.
E06	Reference Switch False Activation (Medium Priority)	The reference switch was activated in the wrong position	Check the reference switch for damage and bad connections. Ensure the correct setting for the reference parameter. Perform a quick setup to reset the position limits.
E07	Run Timer Exceeded (Low Priority)	The run timer has expired.	Check the run timer parameter to ensure a correct value.
E08	Safety Edge Test Fail (Medium Priority)	The reversing edge test has failed	Check the connections from the reversing edge to the controller. If using the SeyWave wireless system, check operation of connected host and remote door sensor.
E09	Safety Edge Connection (Medium Priority)	The reversing edge connection cannot be verified.	Check the connections from the reversing edge to the controller. If using the SeyWave wireless system, check operation of connected host and remote door sensor.
E10	Safety Edge 1 Activated (Low Priority)	The reversing edge has been activated.	Check for obstruction in door's path.
E11	Safety Edge 2 Activated (Low Priority)	The reversing edge has been activated.	Check for obstruction in door's path.
E12	Lifting Force Exceeded (Low Priority)	The torque limit has been exceeded	If the torque limiting feature is being used, adjust the torque limit parameter to suit the application.
E13	N/A	N/A	N/A
E14	Absolute Encoder Comm Loss. (Top Priority)	Communication with the absolute encoder has been lost.	Check the connections between the encoder and the controller.
E15	Installation Fault (Low Priority)	An error occurred during quick setup	Re-perform quick setup
E16	N/A	N/A	N/A

Table 07- Option Error Codes

Code	Description	Cause	Corrective Action
E17	Reset Limits (High Priority)	The position limits cannot be verified.	Perform a quick setup.
E18	Wireless Airlock Failed to Authorize Opening. (Low Priority)	The controller failed to receive an Airlock request acknowledgment.	Check opposite controller to ensure that it is operational. Check that both controllers have been wirelessly connected together and that each controller has Wireless and airlock enabled. Disconnect controllers and run a discovery to reconnect controllers.
E19	Wireless No Response	There was no response from the on-board wireless.	Ensure that the wireless is enabled then power cycle the controller.
E20	N/A	N/A	N/A
E21	Option - SeyWave OCS Remote Timeout	A paired SeyWave wireless O/C/S remote has timed out.	Check the remote for operation. Refer to supplied SeyWave wireless manual for troubleshooting.
E22	Option - SeyWave DS Remote Timeout	A paired SeyWave wireless door sensor remote has timed out.	Option - SeyWave DS connection fault.
E23	Option - SeyWave DS Connection Fault	A paired SeyWave wireless Door sensor remote has reported a connection fault.	Check the connection and remote for operation. Refer to supplied SeyWave wireless manual for troubleshooting.
E26	Door Overtravel	Door position exceeds set limits	Verify Encoder mounting and wiring. Perform quick setup.
E27	Photoeye test fault	Photoeyes do not pass self test.	Verify photoeye mounting and wiring. Check for beam obstruction.
E28	Photoeye 1 activated	Triggered when photoeye 1 is activated	Verify photoeye mounting and wiring. Check for beam obstruction.
E29	Photoeye 2 activated	Triggered when photoeye 2 is activated	Verify photoeye mounting and wiring. Check for beam obstruction.
E30	Input timer exceeded	Input stuck	Review active inputs and clear incorrectly held input.

Cleaning Procedures

⚠ WARNING

Remove 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 serious injury or death.

General Cleaning Procedures:

- Observe all noted cautions and warnings when cleaning around equipment with electrical power (see warning above).
- Avoid spraying motor, wiring, and controls when cleaning the door.
- Use low pressure water when cleaning.

Cleaning Procedure for Curtain:

The following procedures and cautions should be followed when cleaning the Curtain:

- Gently wash curtain with a solution of mild soap and lukewarm water, using a micro-fiber cloth to loosen any dirt or grime.
- Thoroughly rinse with clean cold or warm water to remove any cleaner residue and dry off thoroughly with a new clean micro-fiber cloth to prevent water spotting.

Important cautions when cleaning Curtain:

- Never use abrasive or highly alkaline cleaners.
- Never scrub with brushes, steel wool or other abrasive materials.
- Never use squeegees, razor blades or other sharp instruments to remove deposits or spots.
- No solvents or strong alkaline cleaners shall be used. Use of these products may cause damage.
- Alkali-free detergents are recommended.

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 doors control panel 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.

ID Tag Location

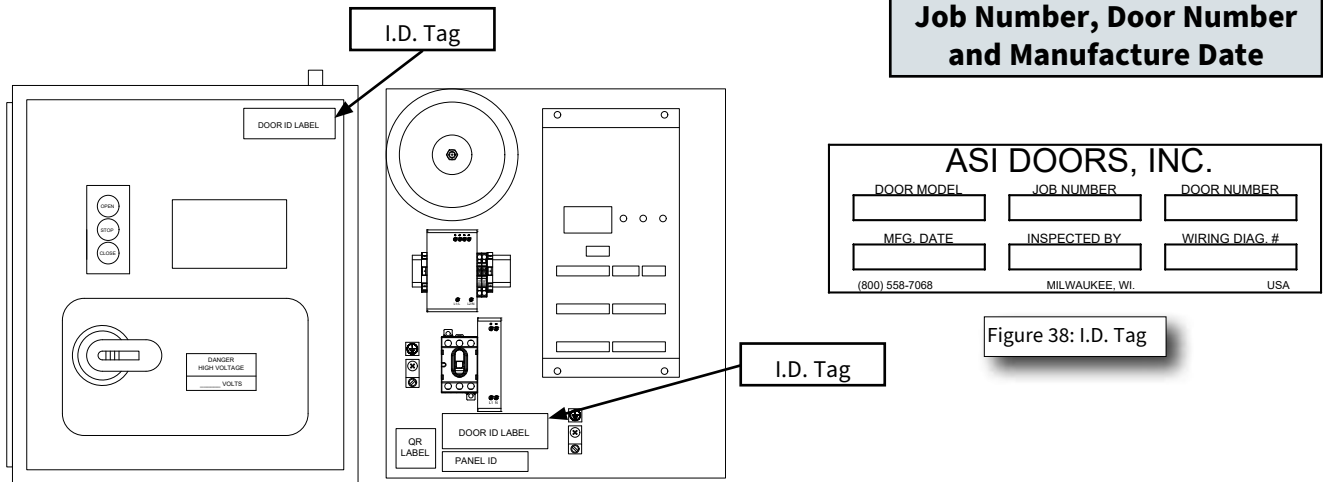


Figure 38: I.D. Tag

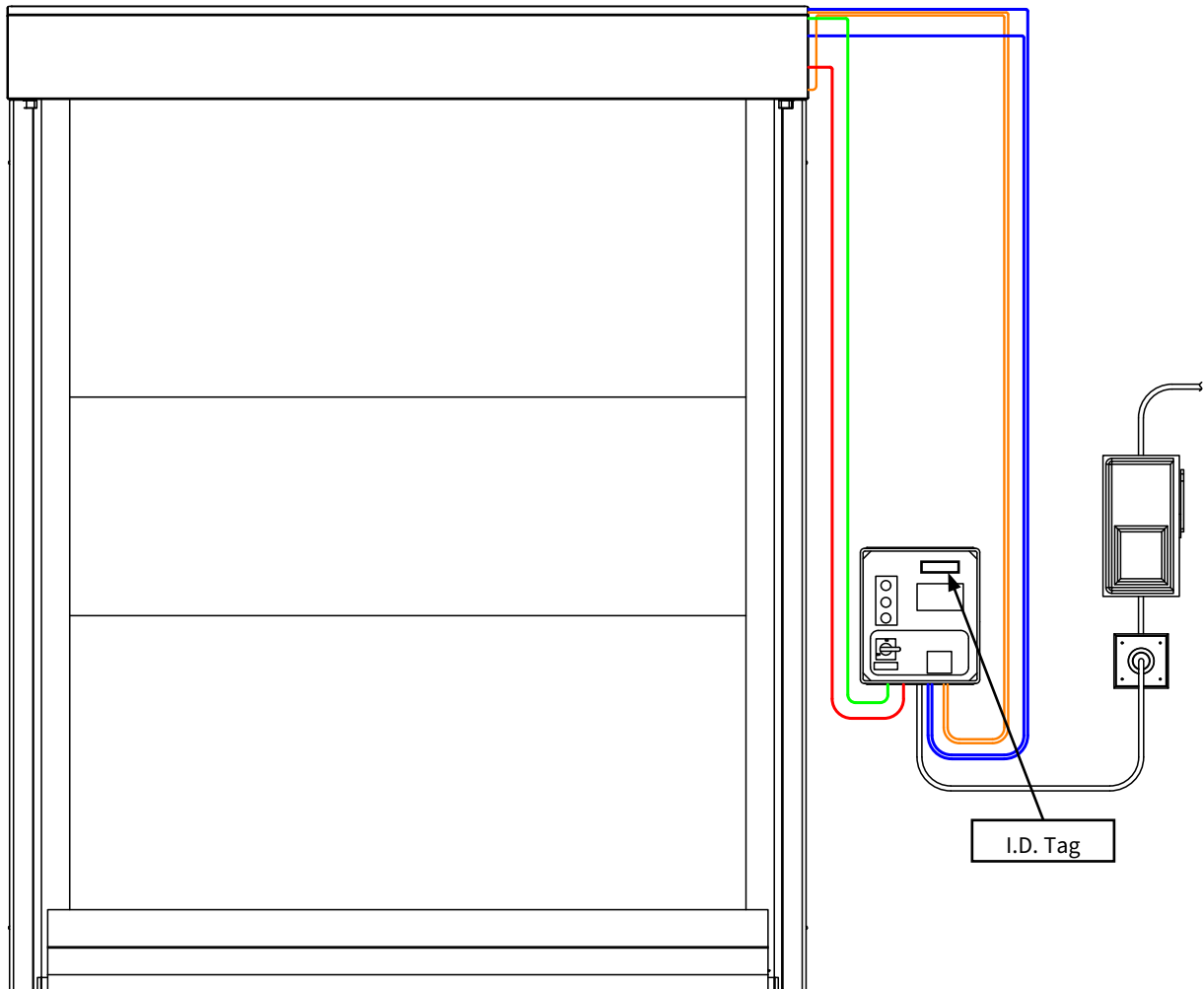


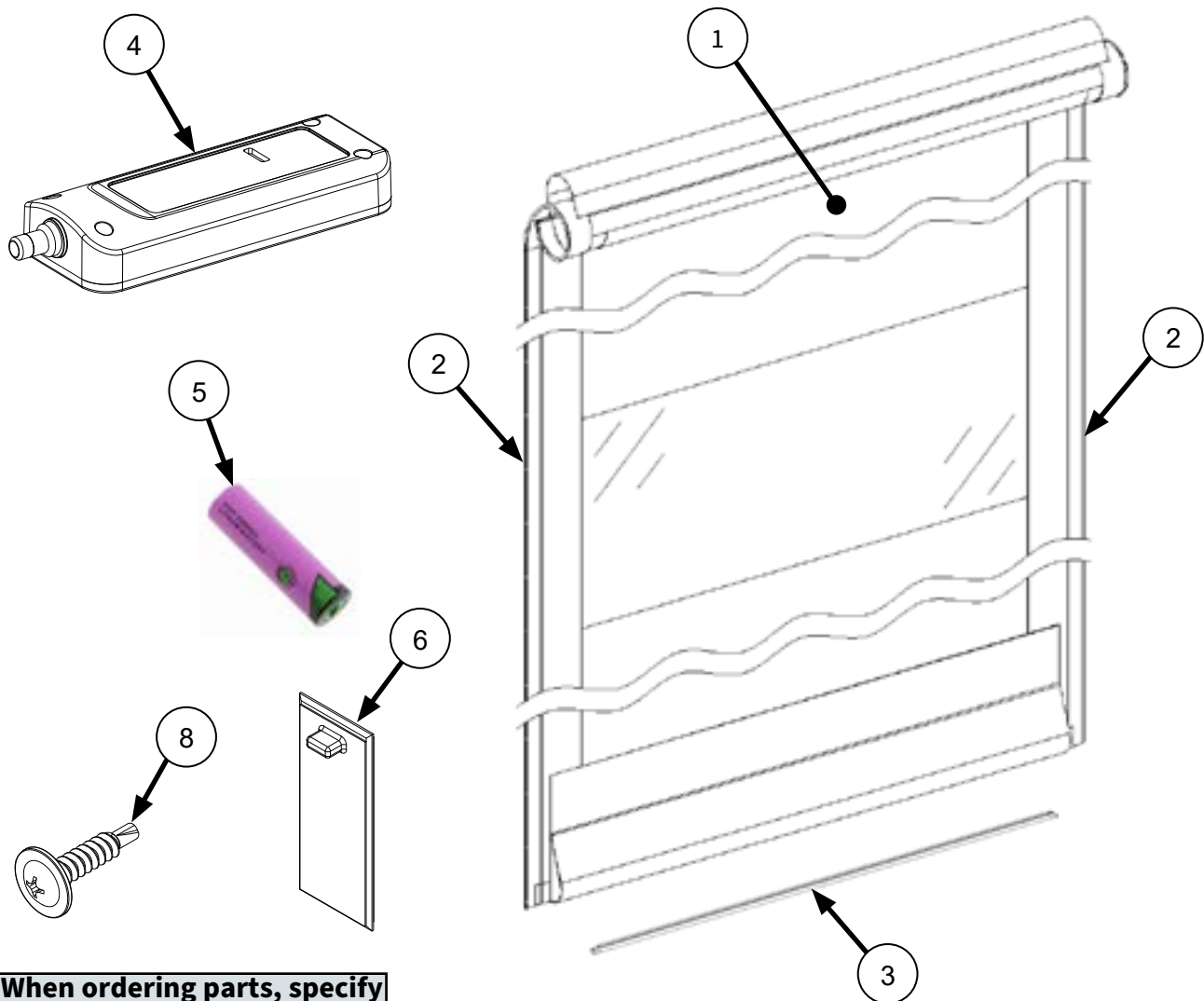
Figure 39: I.D. Tag locations.

Curtain Components

Item #	Part #	Description	Qty
1	315S	Complete Curtain Assembly (Consult Factory)	-
2	24B1112	Edge Bead Replacement, 315 Curtain (See Notes #1, #2, #3, & #4)	-
3	24B1111	Reversing Edge Replacement, 315 Curtain (See Notes #1, #3, & #4)	-
4	23B0204	Reversing Edge Transmitter	-
5	23B0205	Transmitter Battery	-
6	11B0165NN	Reversing Edge Access Door	-
7	315S	Curtain Patch Kit, Roll-Up (See Note #4)	-
8	41A1158	Curtain Mounting Screw, TEK, #8 X 3/4, Ph, Truss Hd, Zn	-

Curtain Ordering Notes:

1. Must return Curtain to ASI for evaluation. Curtain may or may not be repairable.
2. Edge beads only replaced in pairs.
3. No quoted price until evaluation is complete.
4. Must specify Curtain color.

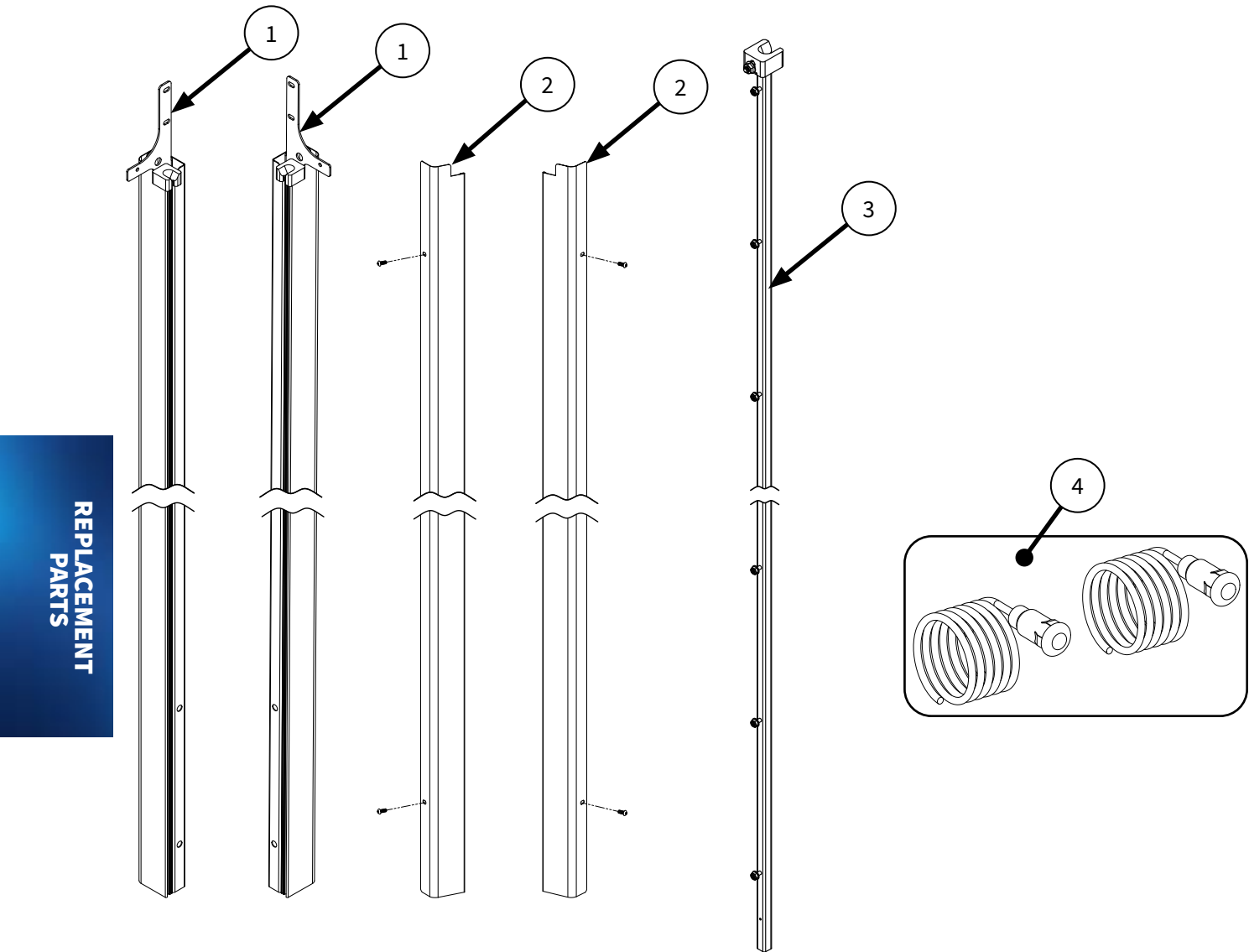


**When ordering parts, specify
Job Number, Door Number
and Manufacture Date**

Face Frame Components

Item #	Part #	Description
1	315S	Asm, Face Frame, Complete Assembly, 315
2	315S	Service Kit, Face Frame Cover, 315
3	315S	Service Kit, Inner Guide, Face Frame, 315
4	24B1118	Service Kit, Photoeyes, Roll-Up

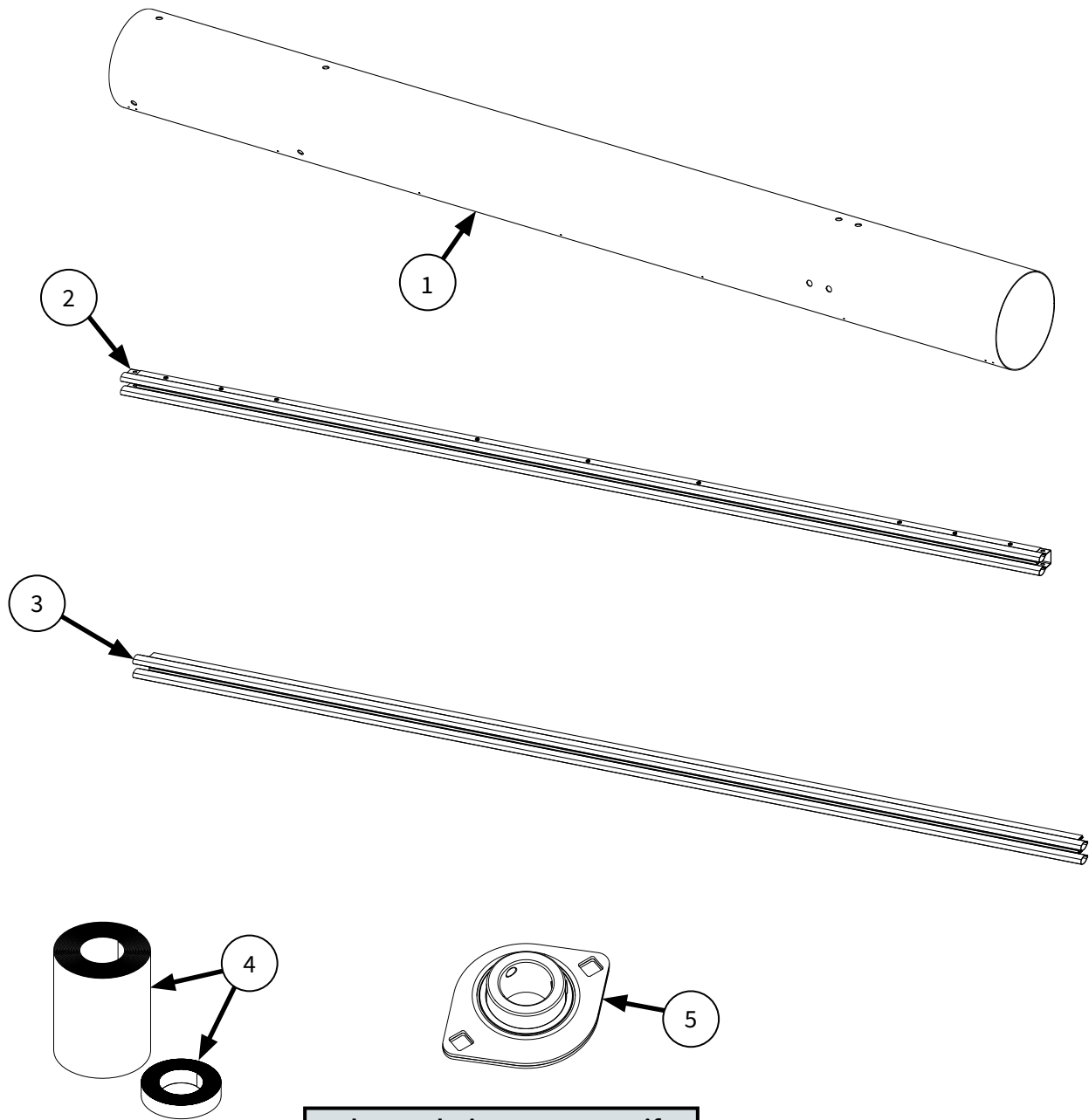
When ordering parts, specify
Job Number, Door Number and
Manufacture Date



REPLACEMENT
PARTS

Header Components

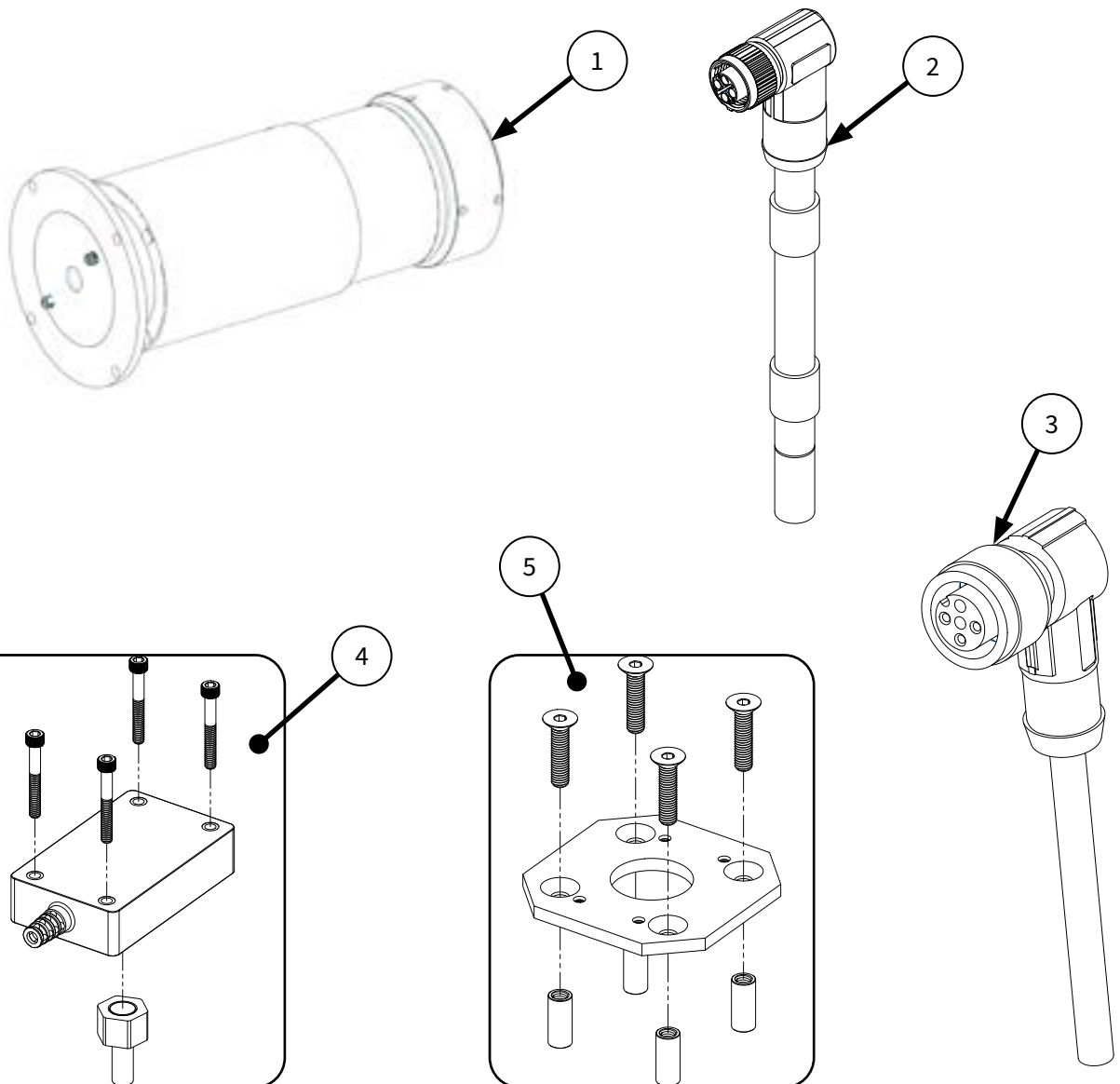
Item #	Part #	Description
1	315S	Tube, Barrel, 315 Roll-Up
2	315S	Asm, Upper Seal & Spreader, 315, WIC</= 10'
3	315S	Asm, Top Seal & Channel, Roll-Up
4	24B1159	Service Kit, Gasket & Adhesive Tape, Upper Seal, 215
5	47A090	Bearing, 1.000" ID, 2 Bolt, Flange Mnt, Steel



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Manufacture Date

Header Components Continued

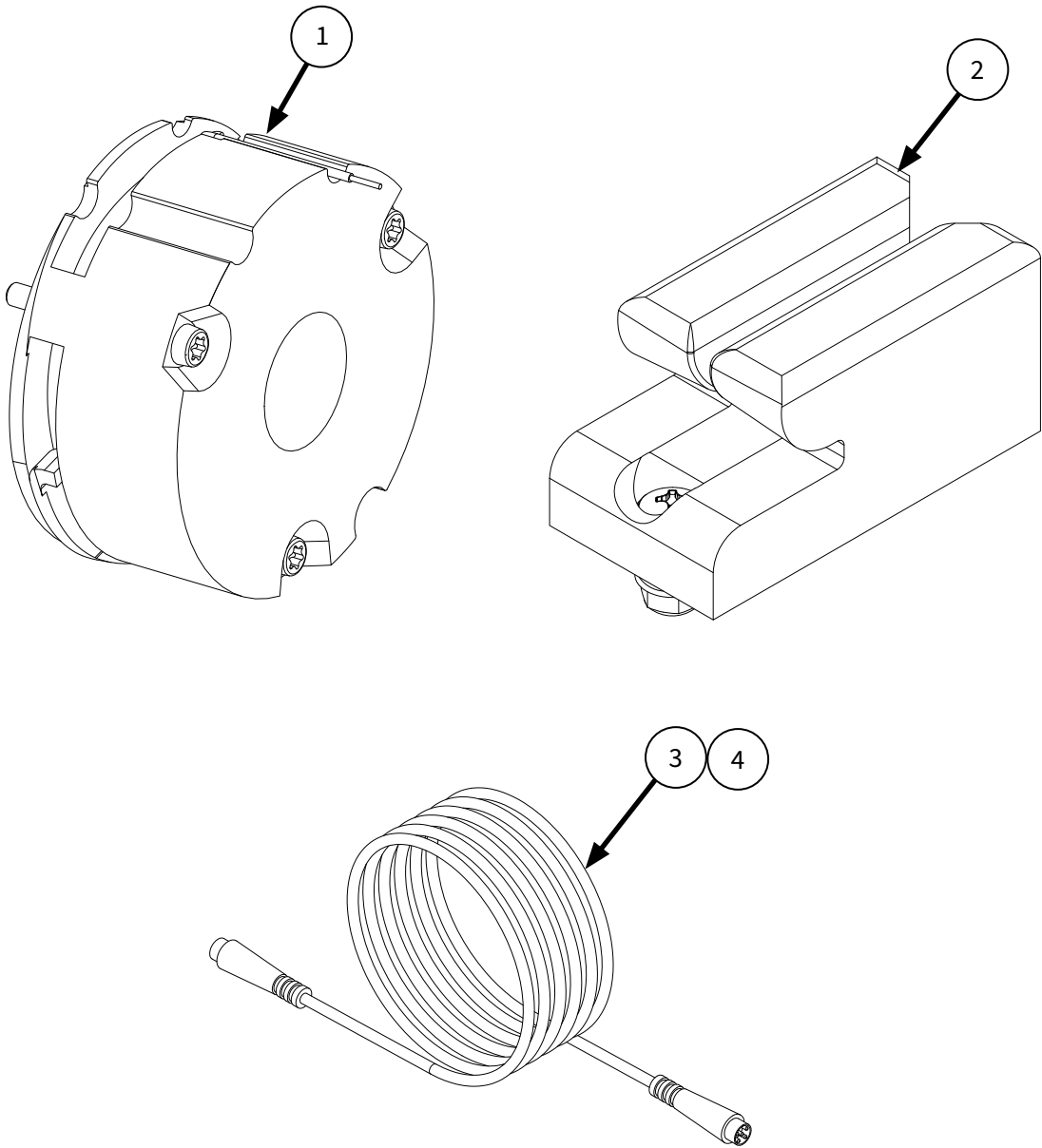
Item #	Part #	Description
1	24B0667NNF1	Assembly, Motor, 315, 230V
1	24B0667NNF2	Assembly, Motor, 315, 460V
2	22A0170F1	Cable, Motor, 4 Wire, 90° End, 15' Length
2	22A0170F2	Cable, Motor, 4 Wire, 90° End, 30' Length
2	22A0170F3	Cable, Motor, 4 Wire, 90° End, 50' Length
3	22A0171F1	Cable, Brake, 3 Wire, 90° End, 15' Length
3	22A0171F2	Cable, Brake, 3 Wire, 90° End, 30' Length
3	22A0171F3	Cable, Brake, 3 Wire, 90° End, 50' Length
4	24B1114	Service Kit, Encoder, Roll-Up
5	24B1115F2	Service Kit, Encoder Bracket, 315 Roll-up



REPLACEMENT
PARTS

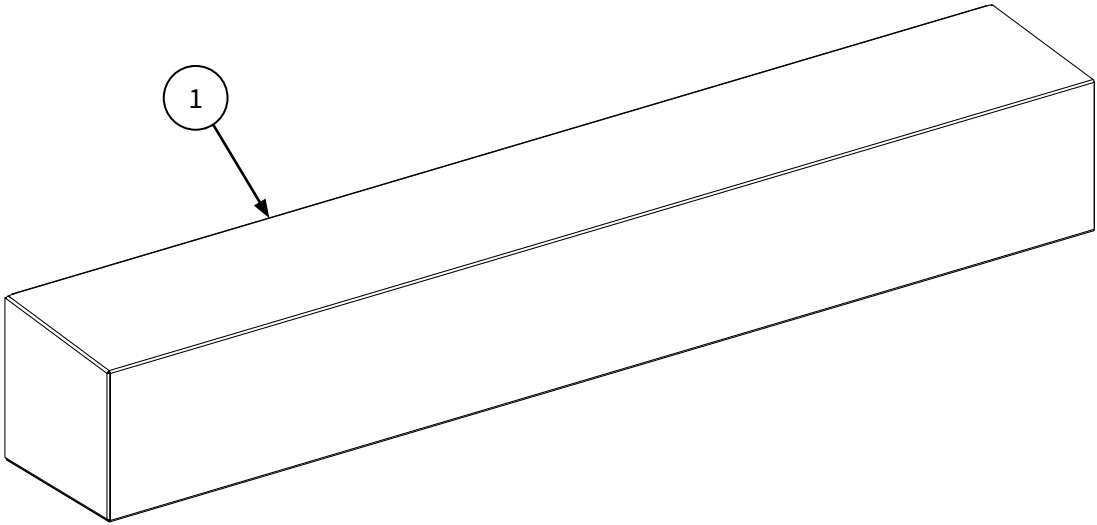
Header Components Continued

Item #	Part #	Description
1	50A0196	Brake, Header, 315 Roll-Up
2	24B1081NN	Asm, Upper Re-Feed Block, 315 Roll-Up
3	23B0181	Cable, Encoder, 5 Meter, Extension
4	23B0153	Cable, Encoder, 10 Meter



Shroud

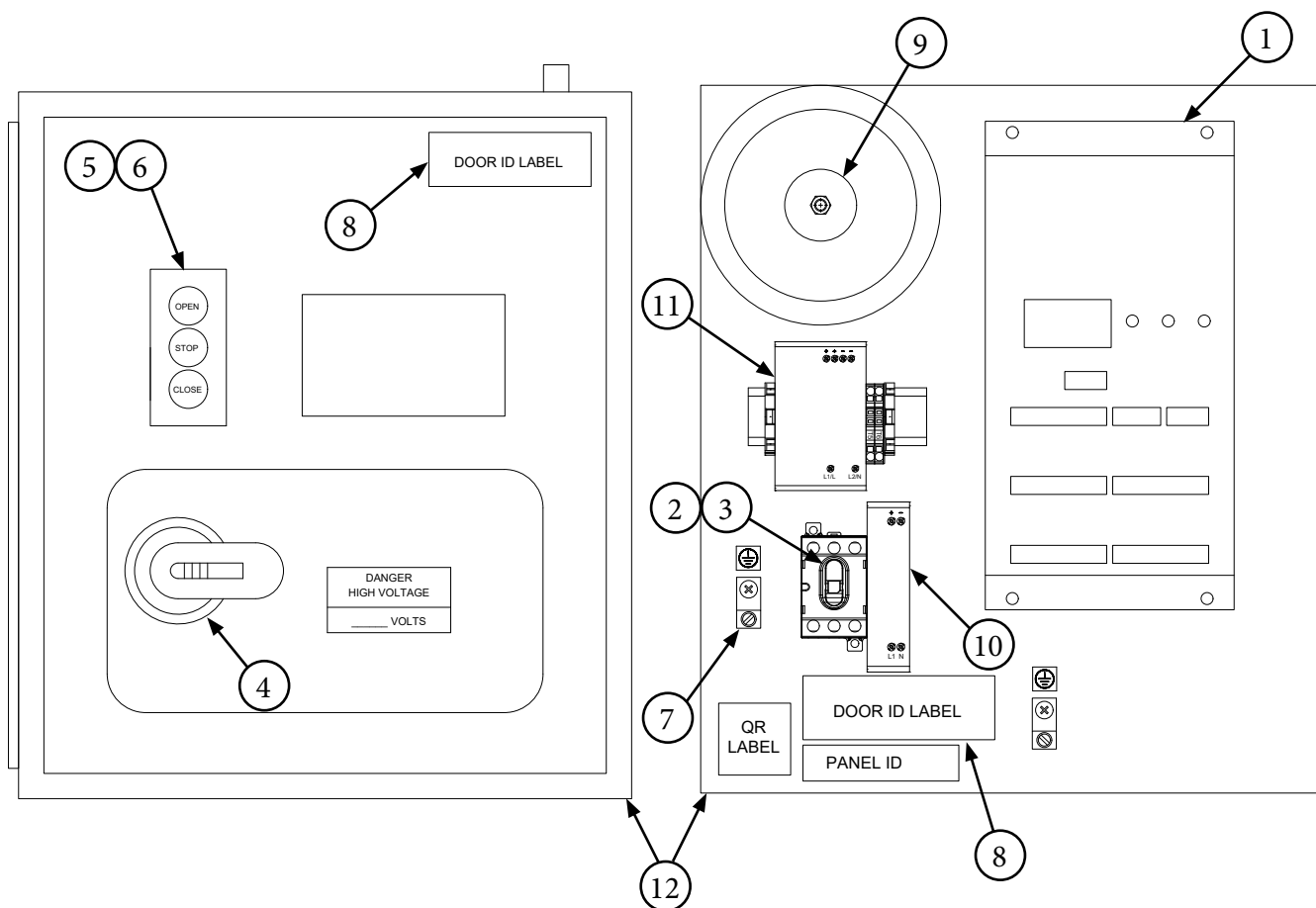
Item #	Part #	Description
1	315S	Weldment, Shroud, 1 Pc, WIC <=10', 315 Roll-Up



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Control Panel

Item #	Part #	Description	Qty
1	23A0360-S	Controller, Configured to Order	1
2	23A0349	Disconnect, Non-Fused, 600V, 40A	1
3	23A0350	Disconnect, Shaft	1
4	23A0351	Disconnect, Handle	1
5	23A0352	Membrane Switch, Open/Stop/Close	1
6	22A0342	Membrane Cable	1
7	22A099	Connector, Mechanical, Aluminum	2
8	17A340	Label, Door ID	2
9	23A0353	Transformer, Toroidal (110V Only)	A/R
10	23A0542	Power Supply, 85-264V, 24VDC, 1.25A (115/208/230V)	A/R
11	23A0543	Power Supply, 264-575V, 24VDC, 3.75A (460V)	A/R
12	18D0345-S	Complete Control Box assembly, 120V	A/R
12	18D0346-S	Complete Control Box assembly, 208V / 230V	A/R
12	18D0347-S	Complete Control Box assembly, 460V	A/R



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Manufacture Date



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