

R Y T E C

Sure-Seal™

Owner's Manual



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SURE-SEAL™ LIMITED WARRANTY

Rytec Corporation ("Seller"), an Illinois corporation with its principal place of business at One Cedar Parkway, PO Box 403, Jackson, WI 53037, warrants to the original registered end-user commercial purchaser ("Buyer") that the **Sure-Seal** ("Product") sold to the Buyer will be free of defects in materials and workmanship (ordinary wear and tear excepted) for the time periods set forth below:

- **Mechanical** components for a period of **One (1) Year** from the date of shipment of the Product from the Seller's plant ("Shipment").
- **Electrical** components for a period of **One (1) Year** from Shipment.
- **Coil Cords, fiberglass panel guides, side column brush/vinyl seals, counterweight straps, vinyl loop seal, wireless mobile unit battery** are considered wear items and are not covered under this Limited Warranty.
- **Aftermarket parts, accessories, and assemblies** for a period of **Ninety (90) Days** from the date of Shipment.

Remedies. Seller's obligation under this Limited Warranty is limited to repairing or replacing, at Seller's option, any part which is determined by Seller to be defective during the applicable warranty period. Such repair or replacement shall be the Seller's sole obligation and the Buyer's exclusive remedy under this Limited Warranty.

Labor. Except in the case of aftermarket parts, accessories, and assemblies, labor is warranted for one year. This means that Seller will provide warranty service without charge for labor in the first year of the warranty period. Thereafter, a charge will apply in to any repair or replacement under this Limited Warranty. In the case of aftermarket parts, accessories, and assemblies, Seller will provide replacement parts only.

Claims. Claims under this Limited Warranty must be made (i) within 30 (thirty) days after discovery and (ii) prior to expiration of the applicable warranty period. Claims shall be made in writing delivered to the Seller at the address provided in the first paragraph of this warranty. Buyer must allow Seller and Dealer, or their agents, a reasonable opportunity to inspect any Product claimed to be defective and shall, at Seller's option, either (x) grant Seller and Dealer or their agents access to Buyer's premises for the purpose of repairing or replacing the Product or (y) return of the Product to the Seller, f.o.b. Seller's factory.

Original Buyer. This Limited Warranty is made to the original Buyer of the Product and is not assignable or transferable. This Limited Warranty shall not be altered or amended except in a written instrument signed by Buyer and Seller.

Not Warranted. Seller does not warrant against and is not responsible for, and no implied warranty shall be deemed to cover, damages that result directly or indirectly from: (i) the unauthorized modification or repair of the Product, (ii) damage due to misuse, neglect, accident, failure to provide necessary maintenance, or normal wear and tear of the Product, (iii) failure to follow Seller's instructions for installation, operation, or maintenance of the Product, (iv) use of the Product in a manner that is inconsistent with Seller's guidelines or local building codes, (v) movement, settling, distortion, or collapse of the ground, or of improvements to which the Products are affixed, (vi) fire, flood, earthquake, elements of nature or acts of God, riots, civil disorder, war, or any other cause beyond the reasonable control of Seller, (vii) improper handling, storage, abuse, or neglect of the Product by Buyer or by any third party.

DISCLAIMERS. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER REPRESENTATIONS AND WARRANTIES, EXPRESS OR IMPLIED, AND THE SELLER EXPRESSLY DISCLAIMS AND EXCLUDES ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PURPOSE. SELLER SHALL NOT BE SUBJECT TO ANY OTHER OBLIGATIONS OR LIABILITIES, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES OF LAW, WITH RESPECT TO THE PRODUCTS SOLD OR SERVICES RENDERED BY THE SELLER, OR ANY UNDERTAKINGS, ACTS, OR OMISSIONS RELATING THERETO.

LIMITATION OF LIABILITY. IN NO EVENT WILL SELLER BE RESPONSIBLE FOR, OR LIABLE TO ANY- ONE FOR, SPECIAL, INDIRECT, COLLATERAL, PUNITIVE, INCIDENTAL, OR CONSEQUENTIAL DAM- AGES, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Such excluded damages include, but are not limited to, personal injury, damage to property, loss of goodwill, loss of profits, loss of use, cost of cover with any substitute product, interruption of business, or other similar indirect financial loss.

Product Descriptions. Any description of the Products, whether in writing or made orally by the Seller or the Seller's agents, including specifications, samples, models, bulletins, drawings, diagrams, engineering or similar materials used in connection with the Buyer's order, are for the sole purpose of identifying the Prod- uct and shall not be construed as an express warranty. Any suggestions by the Seller or the Seller's agents regarding the use, application, or suitability of the Product shall not be construed as an express warranty unless confirmed to be such in writing by the Seller.

Limited Warranty Void. This Limited Warranty shall be void in its entirety if:

- a. The Product is modified in a manner not approved in writing by Seller; or
- b. Buyer fails to maintain the Product in accordance with instructions contained in the Owner's Manual for the Product.

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INTRODUCTION

The information contained in this manual will allow you to operate and maintain your Sure-Seal™ door in a manner that will ensure maximum life and trouble-free operation.

Any unauthorized changes in procedure, or failure to follow the steps as outlined in this manual, will automatically void the warranty. Any changes in the working parts, assemblies, or specifications as written that are not authorized by Rytec Corporation, will also cancel the warranty. The responsibility for the successful operation and performance of this door lies with the owner of the door.

DO NOT OPERATE OR PERFORM MAINTENANCE ON THIS DOOR UNTIL YOU READ AND UNDERSTAND THE INSTRUCTIONS CONTAINED IN THIS MANUAL.

If you have any questions, contact your Rytec representative or call the Rytec Technical Support Department at 800-628-1909. Always refer to the serial number of the door when calling the representative or Technical Support. The serial number plate is located inside one of the side columns.

A wiring schematic is provided with each individual door specifically covering the control panel and electrical components of that specific door.

HOW TO USE MANUAL

Throughout this manual, the following key words are used to alert the reader to potentially hazardous situations, or situations where additional information to successfully perform the procedure is presented:

⚠ WARNING

WARNING is used to indicate the potential for personal injury, if the procedure is not performed as described.

⚠ CAUTION

CAUTION is used to indicate the potential for damage to the product or property damage, if the procedure is not followed as described.

IMPORTANT: *IMPORTANT* is used to relay information **CRITICAL** to the successful completion of the procedure.

NOTE: *NOTE* is used to provide additional information to aid in the performance of the procedure or operation of the door, but not necessarily safety related.

DOOR SERIAL NUMBER(S)

To obtain your **DOOR SERIAL NUMBER**, there are four universal locations where this information can be found. They are:

1. On the door of the System 4 control panel(s)
2. On the front of the left and right side column covers at approximately eye level
3. In the drive motor/head assy. (See Figure 1)

IMPORTANT: *When installing multiple doors of the same model, verify & match the serial numbers of all the components for each door (i.e. control panel, side columns, head assembly, etc.).*

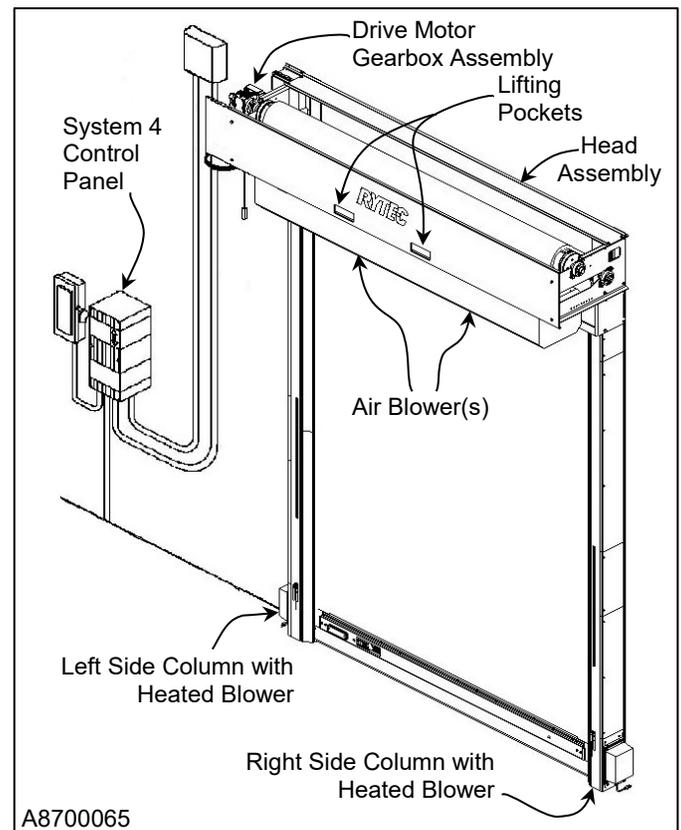


Figure 1

NOTE: *The lifting pockets in the head assembly are there for forklift handling only.*

OPERATION-GENERAL ARRANGEMENT OF DOOR COMPONENTS

GENERAL ARRANGEMENT OF DOOR COMPONENTS

Figure 2 shows the location of the major components of the door and the general placement of the associated control sub-assemblies for a typical installation.

This illustration is provided to you for informational purposes only. It should not be relied upon solely for operating or performing maintenance on your door and its sub-assemblies.

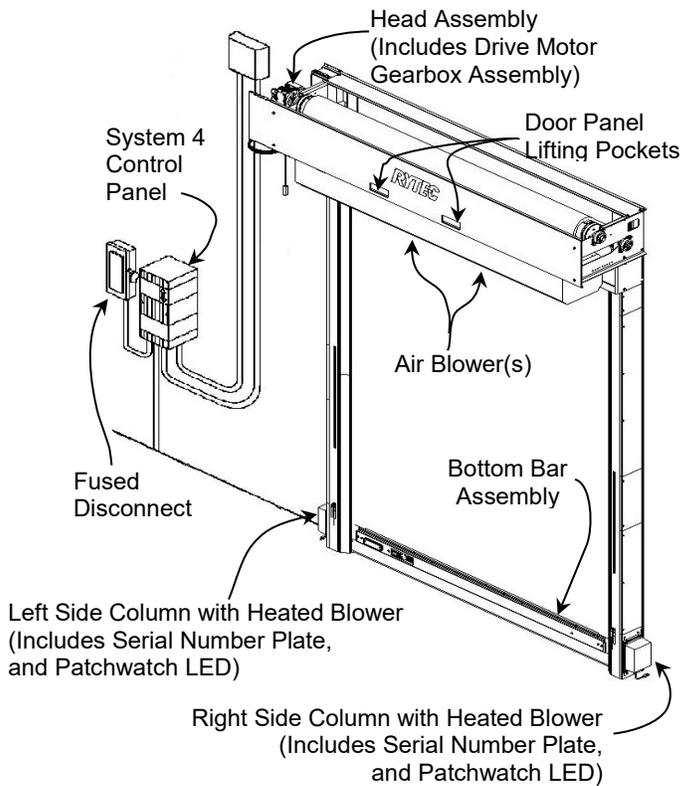


Figure 2

NOTE: Figure 2 shows the front side of the door. Left and right are determined when viewing the front side of the door. Some features may not be included with this installation of the door.

OPERATION

CONTROL PANEL

Your door is equipped with the Rytec System 4 Drive & Control, a solid-state, micro-processor-based control system designed exclusively to operate Rytec high-performance doors. It provides connections for multiple activators, close-delay timers, and status indicators. All command functions to operate the drive and control system are software controlled.

For information on control panel operation see the Rytec System 4 Drive & Control Installation and Owner's Manual.

PHOTO EYES

NOTE: The Photo eyes are an optional feature for the Sure-Seal, and may not be included in this installation of the door. Check the door to verify.

The photo eyes are provided as a safety feature. If the photo eyes are correctly installed, interrupting either set of eyes as the door is closing will reverse the direction of the door and hold it in the fully open position until the interruption is removed.

Each photo eye is a paired transmitter and receiver. The transmitter and receiver can be identified in two ways. The transmitter is designated SMT 3000 on the white label or by a single green light that comes on at the clear end of the transmitter. (See Figure 3) The receiver is designated SMR 3215 on the white label or by a yellow light that illuminates only when it is in proper alignment with the transmitter. (See Figure 4)

NOTE: When the cable is connected to the photo eye, there is only a 1/4-inch window to see the green or yellow LED light.

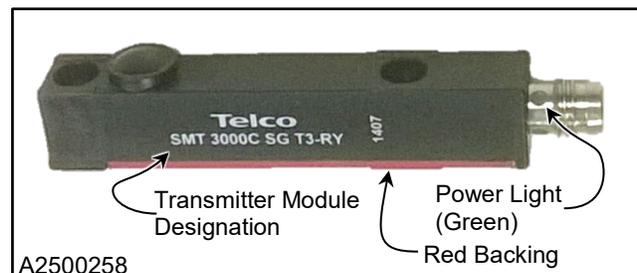


Figure 3

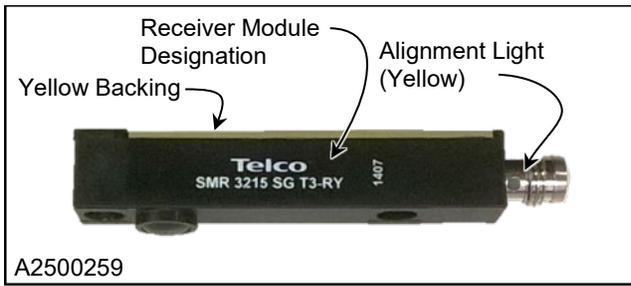


Figure 4

The front set of photo eyes monitors the front side of the door — they are mounted 18 inches from the bottom. The rear set of photo eyes monitors the back side of the door — they are mounted 28 inches from the bottom. (See Figure 5)

NOTE: The photo eyes are not intended to be used as door activators and will not open the door when it is closed.

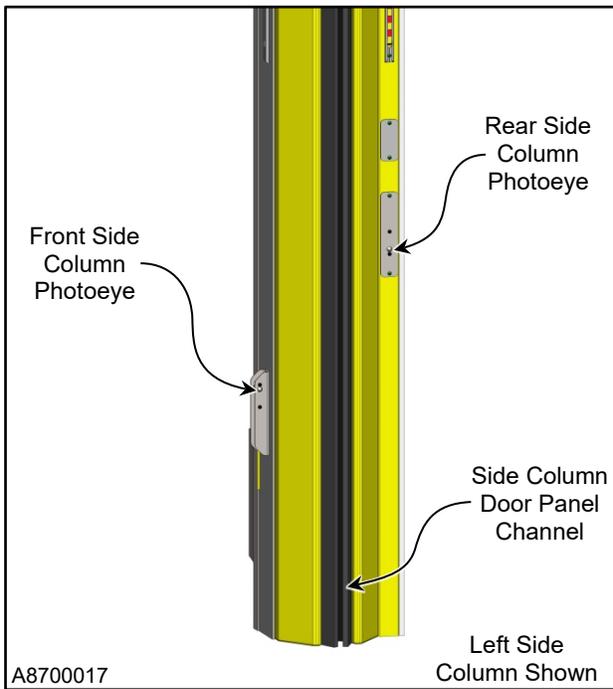


Figure 5

PATHWATCH LED™ WARNING LIGHTS

NOTE: The Pathwatch LED warning lights are an optional feature for the Sure-Seal, and may not be included in this installation of the door. Check the door to verify.

The amber and red warning lights indicate that the door panel is closing. The light strip itself is 36 inches long, and there are two per side column. One is in front of the door panel, and the other is behind. When viewing a complete door assembly, the amber and red lights are located on the inner part of the side columns. (See Figure 6)

NOTE: The warning lights are not intended to be used as door activators and will not open the door when it is closed or closing.

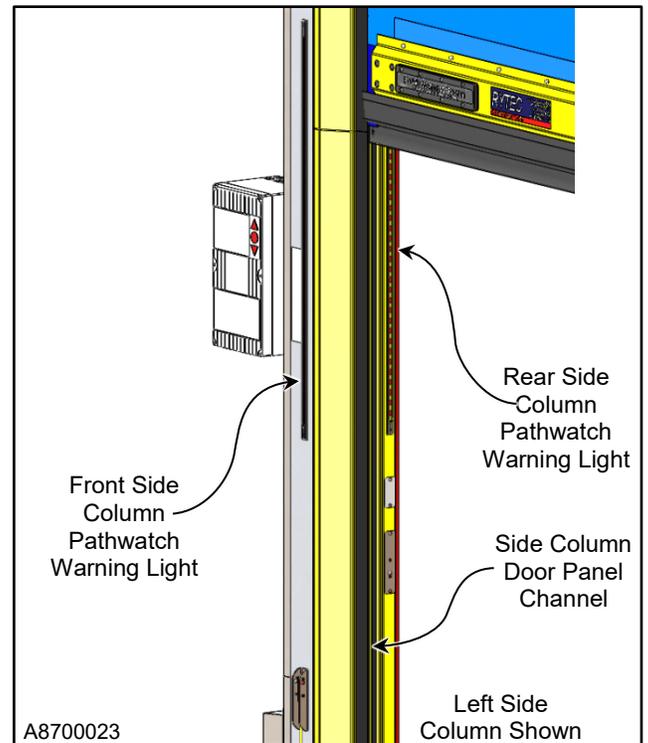


Figure 6

OPERATION-BOTTOM BAR ASSEMBLY

BOTTOM BAR ASSEMBLY

The bottom bar assembly has three features: break-away capability, a reversing edge, and self-repair.

NOTE: The reversing edge, breakaway and self repair are optional features for the Sure-Seal, and may not be included in this installation of the door. Check the door to verify.

Breakaway Capability

Breakaway tabs mounted at each end of the bottom bar assembly provide adequate strength to keep the bottom bar in place during normal operation. However, the tabs are flexible enough to allow the bottom bar to separate from either side column if it is struck by a vehicle or load passing through the door. An impact detecting assembly, containing an impact sensor, is mounted in the bottom bar. It will stop the door if the bottom bar receives an impact/hit. After a brief moment the door will go into repair mode. (See Figure 7)

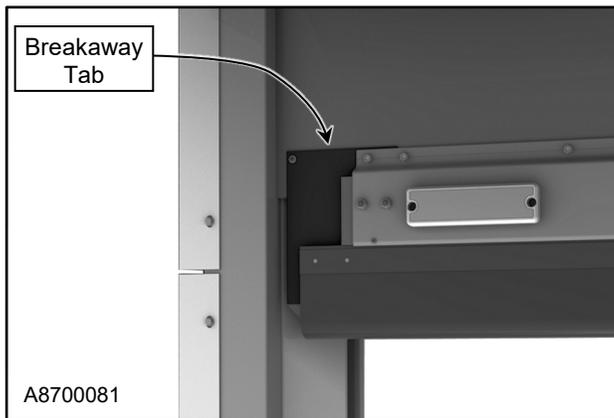


Figure 7

Reversing Edge

A pneumatically operated reversing edge is mounted in the bottom bar assembly. It helps prevent damage to the door panel in the event that the door comes in contact with an object left in its path while it is closing. If the pressure sensitive edge detects an object, the door will automatically reverse direction and move to the fully open position. (See Figure 8)

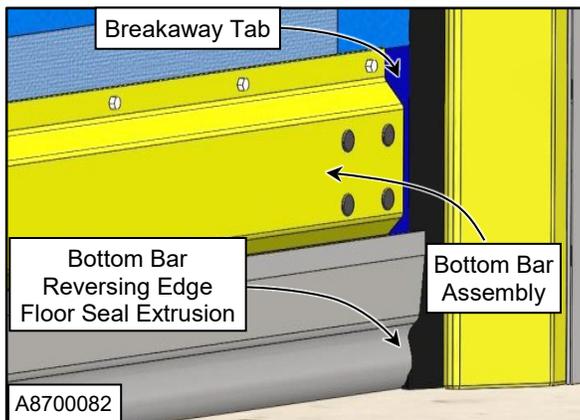


Figure 8

Self Repair

Your door is a fully automated, self-resetting door. After a strike and a clear sensor path, the door will automatically reset the bottom bar.

1. The breakaway tabs are knocked or popped out of the side column's door panel channel due to impact. (See Figure 9)

NOTE: If the door panel has been damaged during the impact, remove the door from service and repair. If you have any questions, contact your Rytec representative or call the Rytec Technical Support Department at 800-628-1909.

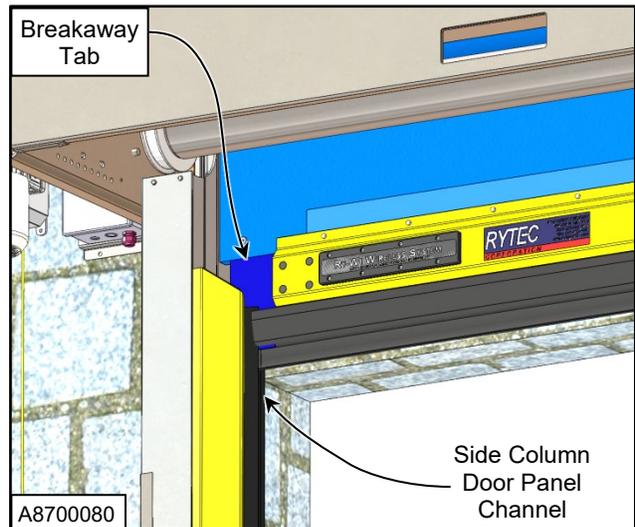


Figure 8

2. The door panel will momentarily pause and then execute the reset procedure.
3. The door panel's breakaway tabs will roll upward above the side columns' channels. (See Figure 10)
4. Then the door panel will guide itself into the channel and resume its normal operation. (See Figure 11)

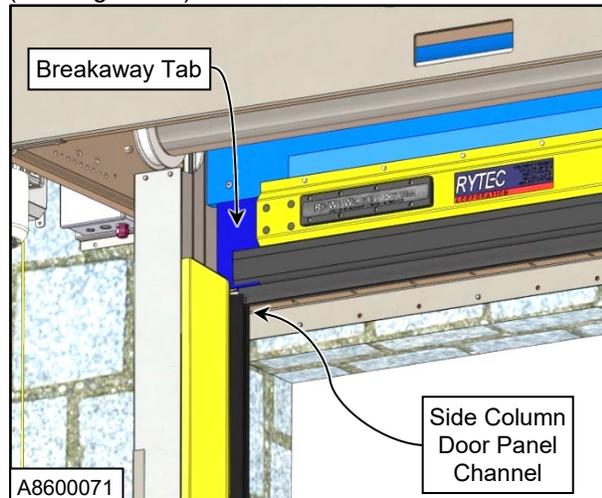


Figure 9

NOTE: Cycling the door and checking for proper door operation is not required unless prescribed.

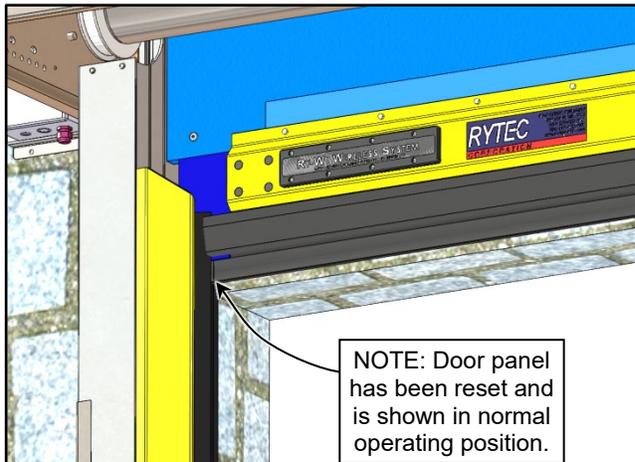


Figure 10

NOTE: There is no warning light or horn if the door panel cannot or does not reset itself due to an obstruction beyond the photo eye parameter. If that option is required, these items can be added to the system.

DEFROST SYSTEM

NOTE: The defrost system is an optional feature for the Sure-Seal, and may not be included in this installation of the door. Check the door to verify.

The Sure-Seal door is engineered for freezer use by utilizing an air blower defrost system coupled with side column heaters. This helps prevent frost build-up on the warm side of the door.

POWER DRIVE SYSTEM

The power drive system consists of a drive motor gearbox assembly and an electric brake system.

The power drive system incorporates an electric brake used to stop the door travel when electrical power to the door is shut off. A manual brake release is provided for manual opening or closing of the door if there is a power failure or if routine maintenance needs to be done with the power disconnected. (See Figure 12)

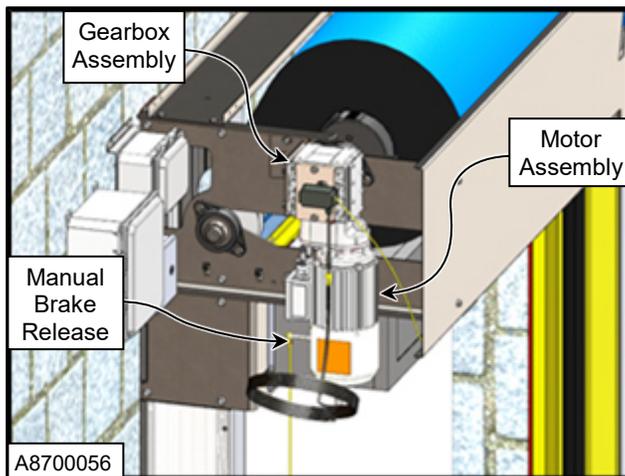


Figure 11

COUNTERBALANCE SYSTEM

NOTE: The Sure-Seal does not use this system.

OPERATION-SAMPLE OBJECT LIST

SAMPLE OBJECT LIST

Included with every door shipped is an Object List as shown in Figure 14 which is a sample version. This list contains key information specific to the door such as the model, serial number, door Production Size specifications, etc.

Locate this document (it will be with the small parts for the door) as you will need information on it which will be key for proper installation, operation, and maintenance. Keep this document along with the manuals in a safe place for future reference.

		Object list Original		Material number 2401	
		Material description SURE-SEAL		Order number 20094097	Order quantity 1 EA
MRP controller 100 MAIN ZMAT	Production scheduler T2 Tier 2	Order type ZP02 RYTEC MTO Order	Start 04/02/2020	Finish 04/03/2020	
Status REL PRT PRC MANC SETC		Plant 1000 JACKSON RYTEC	Reservation number 0002655707	Creation Date 03/03/2020	
Serial number D0102911-010					
Configuration Door Serial Number D0102911-010 Custom Order Standard Order DOOR MODEL NAME ASRS Production Width (in) 60 Production Height (in) 60 Fabric Type Insulated Foam Panel Fabric Color Blue Line Voltage 460V Line Phase Three Phase Power motor mount side Left Hand Motor Horsepower 3.0 width in feet 5 height in feet 5 Domestic or Export crate Domestic Crate Control Logic System 4 door control Motor Gearbox Ratio 12.10 Motor Duty Standard Duty Motor Motor Cord Length (feet) 32 Encoder Cable Length 15 Meter encoder cable (49') Blower Type No Blowers Side Column Warmers No Side Column Warmers Hood style No Hood Bottom Bar Material Plastic Bottom Bar Functional Bottom Bar Non-Functional Bottom Bar Side Column LEDs No LEDs on side columns System 4 Enclosure Sys4 standard NEMA 4X enclosur System 4 Disconnect type No Disconnect Photo eye type No Photoeyes BOM level 0 Source of Head Weldment Purchase Head Weldment Source of Drum Weldment Purchase Drum Weldment Source of Side Column Machinin Purchase Side Column Machining Source of Rilon Panel Make Rilon Panel Control Box Location Shipped in Crate Mini Display for System 4 No Sys4 Mini Display					
Information on routing DOOR ASSEMBLY, ASRS					

Figure 12

PLANNED MAINTENANCE

RECOMMENDED SCHEDULE

NOTE: The following maintenance schedule is recommended for your Rytec Door.

Some features are optional for this door and may not be included in this installation.

	Daily	Quarterly
Visual Damage Inspection		
Check Door Operation		
Reversing Edge Inspection		
Photo Eye Inspection (Front and Rear)		
Pathwatch LED Inspection (Front and Rear)		
Bottom Bar Edge Seal		
Hardware Inspection		
Door Panel Inspection		
Weather Seal Inspection		
Close-Limit Inspection		
Open-Limit Inspection		
Motor Brake Inspection		
Bottom Bar Inspection		
Activator and Control Panel Inspection		
Electrical Connection Inspection		
Blower Inspection		
Wall Anchor Inspection		

GENERAL CLEANING

Household cleaners are sufficient for general cleaning of the door panel. Isopropyl alcohol can be used on more difficult areas but avoid using bleach and industrial grade cleaners or solvents.

DAILY INSPECTION

Visual Damage Inspection

Visually inspect the door to see that components have not been damaged. Example: bent bottom bar assembly, torn door panel, damage to side columns, etc. (See Figure 15)

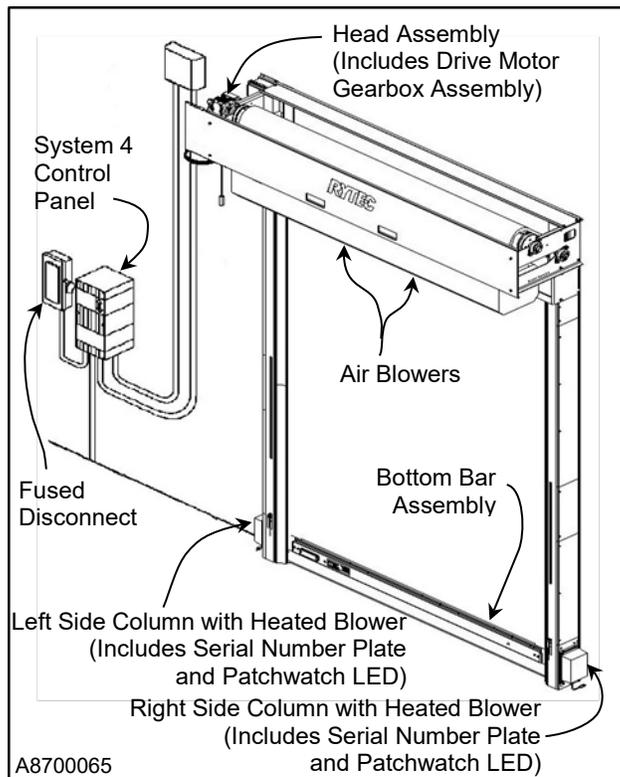


Figure 13

Head Assembly: Inspect for dents or damage that may prevent the door from opening or closing properly.

Door Panel: Inspect panel for holes, tears, and worn areas. — clean or replace as required.

Side Columns and Covers: Inspect for damage that may prevent the door from operating properly.

Photo Eyes (if included): Inspect the lens of each photo eye for damage or dirt that may prevent the photo eyes from working properly — clean or replace as required.

Warning Lights (if included): Inspect the lens of each light for damage or dirt that may prevent the lights from working properly — clean or replace as required.

Bottom Bar: Inspect the bottom bar for damaged, missing, or loose hardware. Inspect the bottom edge seal along the lower edge of the bottom bar for tears and holes. Inspect the reversing edge itself, if included.

PLANNED MAINTENANCE-DAILY INSPECTION

Check Door Operation

Run the door through four or five complete cycles to verify that the door is operating smoothly and efficiently, and that binding or unusual noises do not exist. DO NOT continue to operate the door if it is not running properly, as this could compound the damage.

Reversing Edge Inspection

NOTE: The reversing edge is an optional feature of the Sure-Seal, and may not be included in this installation of the door. Check the door to verify.

WARNING

Do not stand under the door panel while testing the door reversing function. If the reversing edge switch is not working properly, the panel could strike the person performing the test. Also, do not continue to use the door if the reversing edge is not operating properly.

While the door is running through the down cycle, tap the bottom of the reversing edge. If the reversing edge is operating properly, the door will immediately reverse and run to the fully open position. Push the control panel down arrow key to close the door after the inspection is complete. If the reversing edge is not working properly, see “PNEUMATIC REVERSING EDGE SWITCH ADJUSTMENT” on page 14 and/or “BOTTOM BAR BREAKAWAY-IMPACT SENSOR ADJUSTMENT” on page 16 for the adjustment procedures.

Photo Eye Inspection

NOTE: The photo eyes are an optional feature of the Sure-Seal, and may not be included in this installation of the door. Check the door to verify.

NOTE: Photo eyes act as a safety device to prevent the door from closing if an object or person is within the photo eye beam. The photo eyes are not meant to be used as door activators.

1. Raise the door to the fully open position by pushing the up arrow key on the front of the control panel.
2. Break the beam of light on the front side of the door by placing an object between the photo eyes, transmitter and receiver.
3. Press the down arrow key on the front of the control panel. The door should not operate.
4. If the photo eyes don't operate properly, the transmitter or receiver may be dirty. Clean as required using window cleaner and a clean, soft cloth. If cleaning does not solve the problem, see “PHOTO EYE ADJUSTMENT” on page 15 for adjustment procedures.
5. Repeat the procedure on the back side of the door.

Pathwatch LED Inspection

NOTE: The Pathwatch LED warning lights are an optional feature of the Sure-Seal, and may not be included in this installation of the door. Check the door to verify.

The amber and red warning lights indicate that the door panel is closing. The light strip itself is 36 inches long, and there are two per side column. One is in front of the door panel, and the other is behind. When viewing a complete door assembly, the amber and red lights are located on the inner part of the side columns. (See Figure 16)

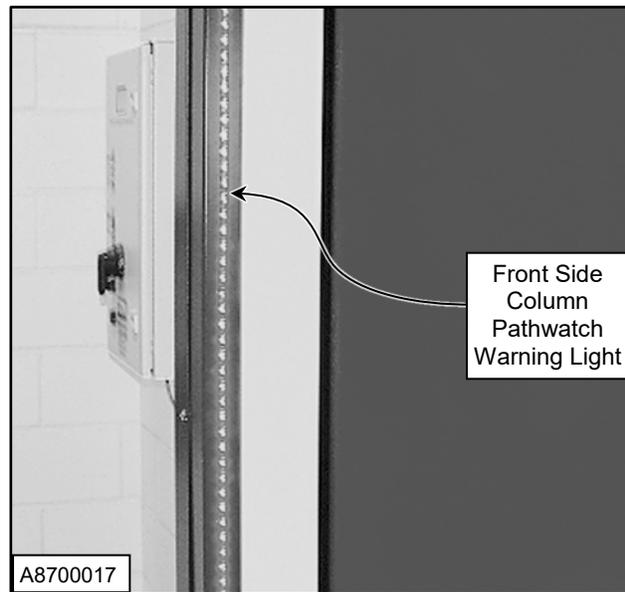


Figure 14

NOTE: Pathwatch LED warning lights act as a safety device to warn personnel that the door is closing. The warning lights are not a door activator or opener.

1. Raise the door to the fully open position by pushing the up arrow key on the front of the control panel.
2. Press the down key on the front of the control panel.
3. As the door is closing, the amber and red warning lights will flash.
4. Repeat the procedure on the opposite side of the door.

Bottom Bar Edge Seal

The bottom bar edge seal is a barrier which provides an air seal between door sides. With regular usage and elements of weather, the edge seal will require cleaning. Pull the bottom bar and panel out of the side columns to gain full access to the edge seal. Check the edge seal for wear, tears, ice or dirt buildup, and any other damage which would prevent the seal from performing properly. (See Figure 17)

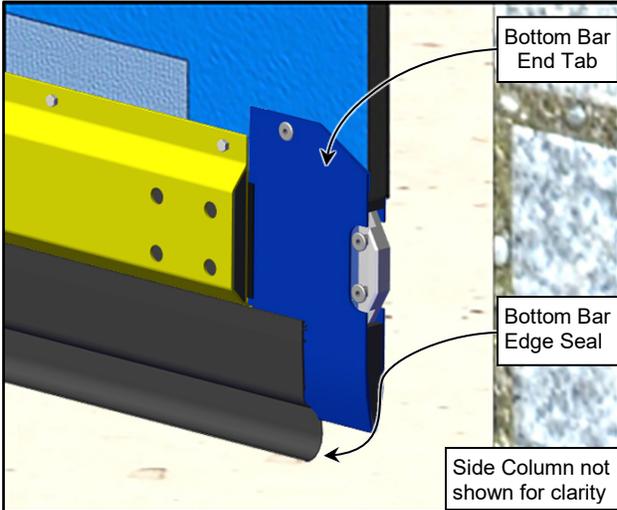


Figure 15

QUARTERLY INSPECTION



The disconnect must be in the OFF position and properly locked and tagged before performing the following procedures.

Hardware Inspection

Make sure all nuts, bolts, set screws, and anchors are tight throughout the door. Example: motor mounting bolts, wall mounting hardware, floor anchors, shaft set screws, etc. (See Figure 18 - Figure 23)

BEARING BLOCK AND ROLLER ASSEMBLY

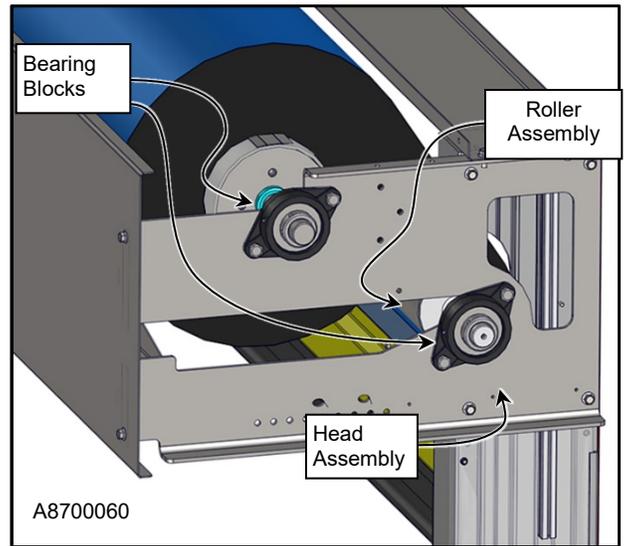


Figure 16

ENCODER

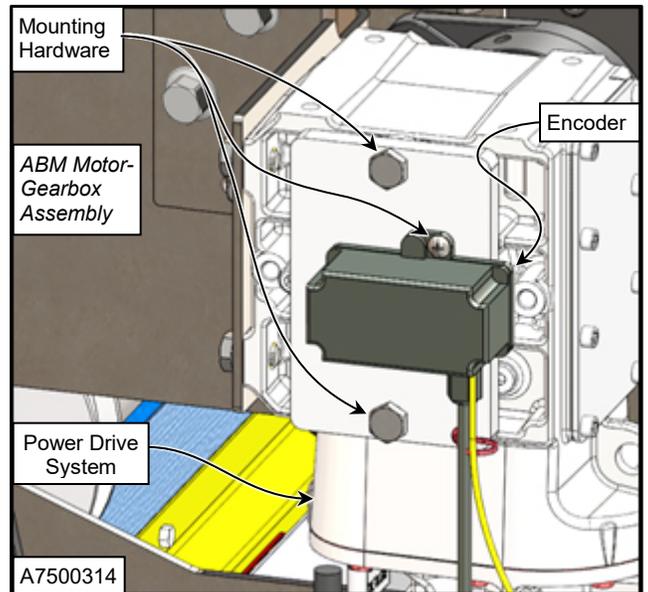


Figure 17

PLANNED MAINTENANCE-QUARTERLY INSPECTION

HEAD ASSEMBLY

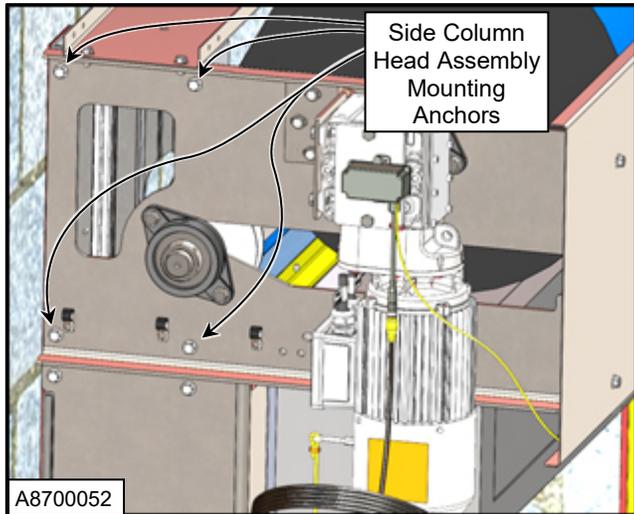


Figure 18

SIDE COLUMN ANCHORS

NOTE: To access the floor and wall anchors, you must first remove the cover from each side column.

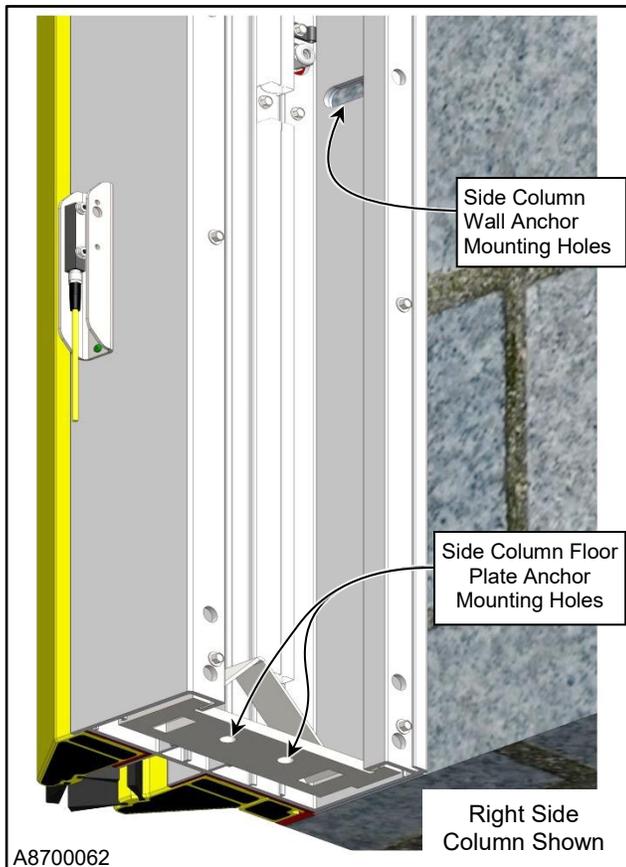


Figure 19

Door Panel Inspection

1. Check the door panel for tears. Repair or replace as required.
2. Check the door panel for delamination. Repair or replace as required.
3. Ensure that the panel is securely fastened to the bottom bar assembly. Tighten or replace loose or damaged mounting hardware as required. (See Figure 22)

BOTTOM BAR

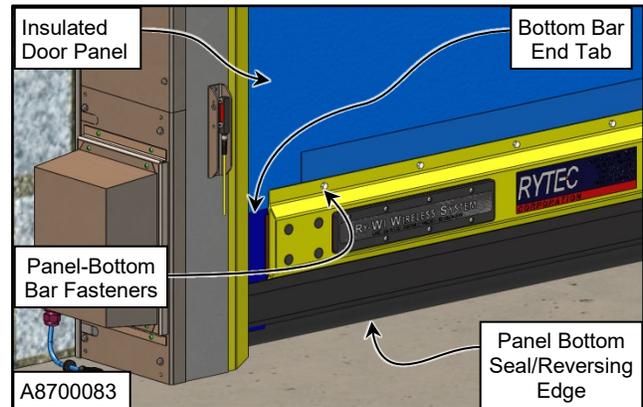


Figure 20

Weather Seal Inspection

HEAD ASSEMBLY

NOTE: A brush weather seal is mounted on the under- side of the head assembly, on the wall/back side of the door panel roll.

1. Inspect the entire length of the weather seal for wear and damage. Replace if necessary. (See Figure 23)

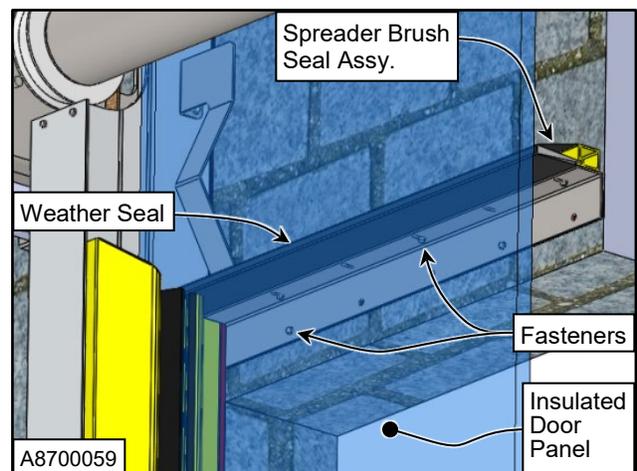


Figure 21

2. Check brush and door panel seal. If necessary, loosen the fasteners and adjust the brush seal so the door panel and brush are in contact. Tighten down the seal with the fasteners.

SIDE COLUMNS

Inspect the entire length of both brush seals for wear and damage. Replace if necessary. (See Figure 24)

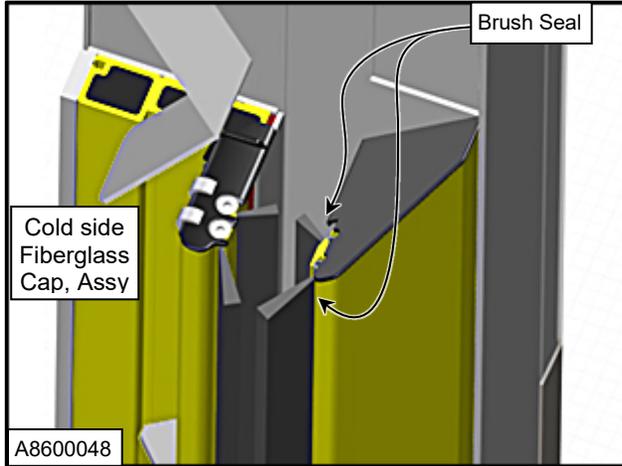


Figure 22

Door Limit Inspection

CLOSE LIMIT

With the door in the closed position, check the black edge seal on the bottom bar. It should be in the position shown in Figure 26.



Damage to the rubber reversing edge or other bottom bar parts can occur if the door seal is allowed to seal too tightly against the floor. (See Figure 25)

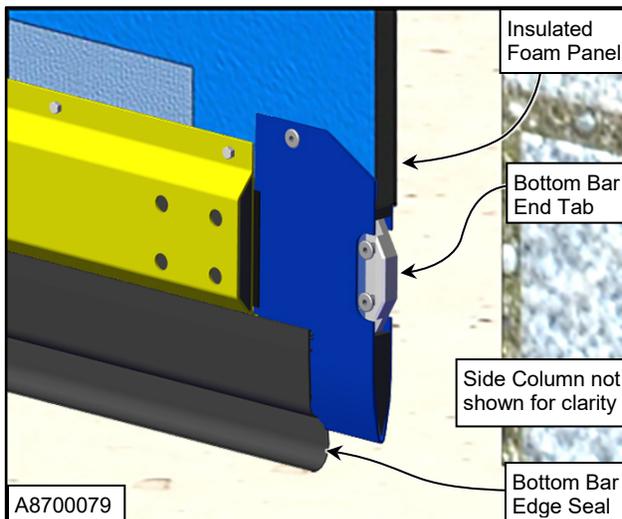


Figure 23

If the reversing edge does not seal properly against the floor, see the Rytec System 4 Drive & Control Installation & Owner's Manual for proper adjustment procedure.

OPEN LIMIT

The open limit switch should be adjusted so that the door travel allows the bottom bar assembly to stop with approximately half of the breakaway end tab into the yellow channel guide and the edge seal level with the door lintel. (See Figure 26)

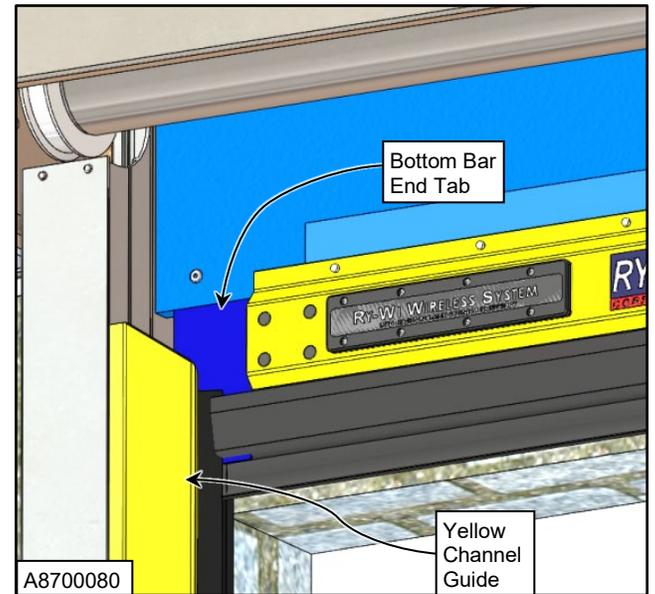


Figure 24

Motor Brake Inspection

The power drive brake assembly is designed to stop the door panel travel at the locations indicated in the limit switch inspection section. If the limit switches are set properly and the door drifts past the set limits, the motor brake needs to be investigated.

The motor brake is not adjustable. Contact the RYTEC Technical Support Department at 800-628-1909 if drifting occurs with the motor brake.

Bottom Bar Inspection

1. Inspect all hardware used to secure the breakaway tab assembly to the bottom bar. Tighten hardware as required.
2. Inspect the reversing edge to ensure that it is tightly secured to the bottom bar.

PLANNED MAINTENANCE-QUARTERLY INSPECTION

3. Inspect the bottom seal along the bottom bar assembly for wear, tears, and/or abrasion. Replace any worn or damaged parts as required. (See Figure 27)
4. Inspect fasteners securing the bottom bar to the door panel. Tighten any that are loose and replace any that may be missing.

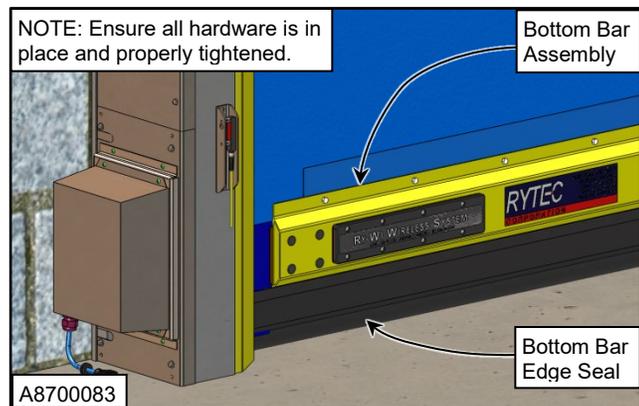


Figure 25

Activator and Control Panel Inspection

1. Inspect all warning and safety labels. All labels should be intact, clean, and clearly legible. Replace any label when necessary.
2. Operate the door five or six complete open and close cycles with each activator installed with the door. Make any necessary adjustments or repairs. Refer to the associated manual supplied with each activator installed with your door.

Typical activators may include a floor loop, pull cord, push button, motion detector, radio control, or photo eye. The door open cycle is controlled by the activator. The door close cycle can be controlled by an activator or by a timer internal to the control panel.
3. Check the control panel for proper operation. If an adjustment or repair is necessary, refer to the Rytec System 4 Drive & Control Installation & Owner's Manual that was shipped with your control panel.

Electrical Connection Inspection



The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure.

1. Turn off power to the door.
2. Inspect all electrical connections to the power drive system. All connections must be secure and tight.
3. Inspect the electrical connections in the junction boxes located in the head assembly. All connections must be secure and tight.
4. For the proper control panel electrical connection inspection procedure, see the Rytec System 4 Drive

Lubrication



The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure.

1. Turn off power to the door.
2. **Flange Block Bearings:** The drum roll/door panel is supported by two bearings, which are located at both ends of the assembly. The bearings have a grease fitting. (See Figure 31)

The bearings should be lubricated quarterly using a lithium-based grease conforming to NLGI grade 2 standard. It should be a medium-viscosity, low-torque rated grease, with an approved operating temperature range of -30°F to 200°F .

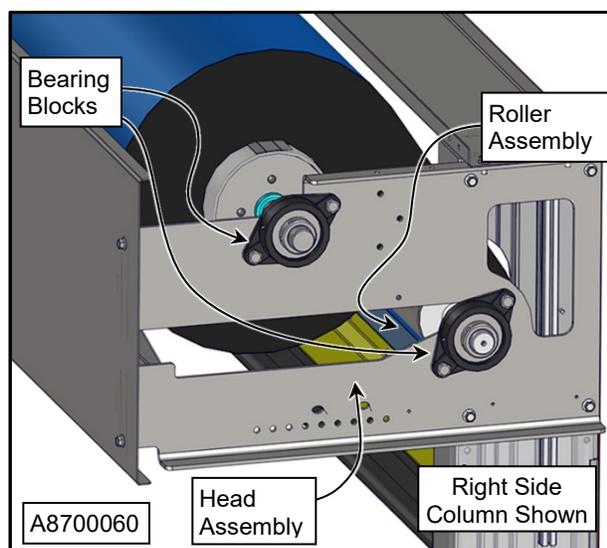


Figure 26

Side Column Heated Blower Inspection

NOTE: The heated blowers are an optional feature of the Sure-Seal, and may not be included in this installation of the door. Check the door to verify.

1. Turn off power to the blowers.

⚠ WARNING

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure.

2. Inspect the air inlet screen, blower wheels, and motor. Vacuum all dirt and dust from all components and make necessary repairs.
3. Check that the heater thermostat is set to its "HIGH" setting & the dial is turned all the way clockwise. (See Figure 33)

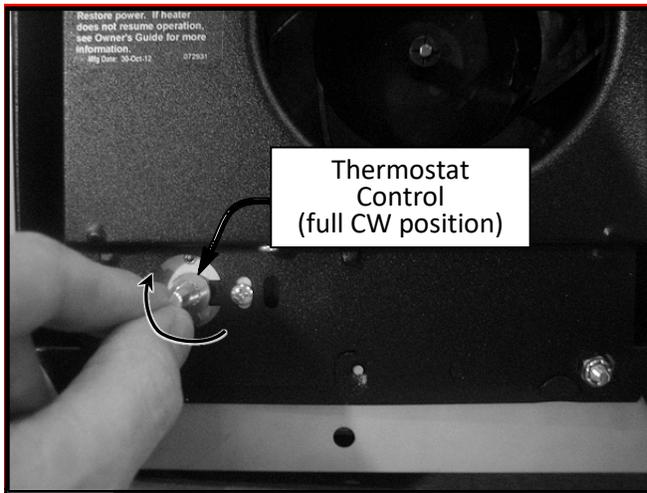


Figure 27

4. Turn on power to the blowers.

Wall Anchor Inspection

1. Turn off power to the door.

⚠ WARNING

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure.

2. Gain access to wall anchors.
3. Inspect for loose or worn wall anchor(s).
4. Tighten, repair, or replace wall anchor(s) as needed.

NOTE: Remove door from service if any repairs are needed. All repairs must be done in accordance with building code.

5. Remove door from service if any repairs are needed. All repairs must be done in accordance with building code.

ADJUSTMENTS-PNEUMATIC REVERSING EDGE SWITCH ADJUSTMENT

ADJUSTMENTS

PNEUMATIC REVERSING EDGE SWITCH ADJUSTMENT

NOTE: The reversing edge is an optional feature for the Sure-Seal, and may not be included in this installation of the door. Check the door to verify.

⚠ WARNING

Do not stand under the door panel when testing the reversing edge. If the reversing edge switch is not working properly, the panel/bottom bar could strike personnel and cause injury.

To check the reversing edge switch, run the door through the down cycle. As the door is lowered, tap the bottom of the reversing edge. If the switch is working properly, the door will immediately reverse direction and run to the open position. Code F:361 “Edge Trip” will appear on the display. Push and hold the RESET button 3 to 5 seconds and the control will reset. Push the down arrow key to close the door.

If the door does not reverse, check the air bleed and sensitivity of the reversing edge switch.

Reversing Edge Switch Air Bleed Check

⚠ WARNING

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure.

1. The reversing edge switch is located inside the bottom bar assembly, on the end same as the drive motor. To inspect and/or adjust the switch, remove the access cover from the face of the bottom bar assembly. (See Figure 34)

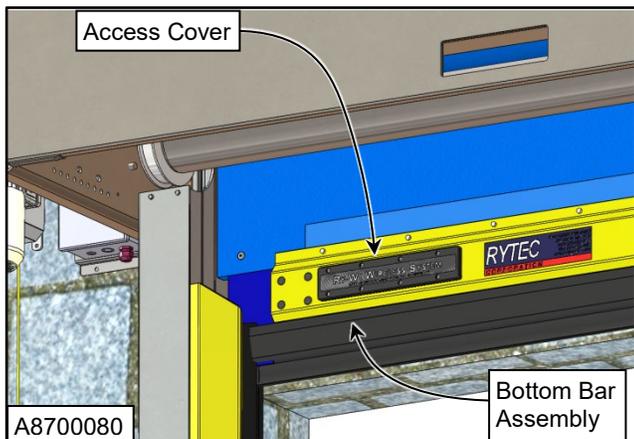


Figure 28

2. Make sure the clear PVC hose is in tight contact with the air input post so that air leakage cannot occur and that vibration will not cause the hose to fall off. Make sure the hose is not kinked. (See Figure 35)

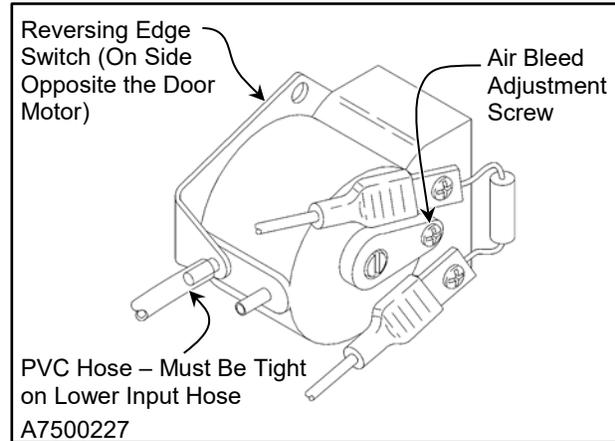


Figure 29

3. The air bleed has been set at the factory and should not require adjustment. If adjustment is necessary, turn the air bleed adjustment screws located on the front and back of the switch fully clockwise — but do not overtighten. Then turn each screw back (counterclockwise) one full turn.

Reversing Edge Switch Sensitivity Adjustment

⚠ WARNING

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure.

1. The reversing edge switch is a normally open contact. The PVC hose is on the lower air input post. To adjust the switch, first remove the resistor from the contact terminals and attach an ohmmeter across the two terminals. (See Figure 36)
2. Turn the sensitivity adjustment screw clockwise until continuity is achieved. Then turn the sensitivity screw two full turns counterclockwise for a standard setting. Some doors may require a further adjustment counterclockwise. (See Figure 36)

NOTE: Testing the reversing edge is the best way to determine sensitivity.

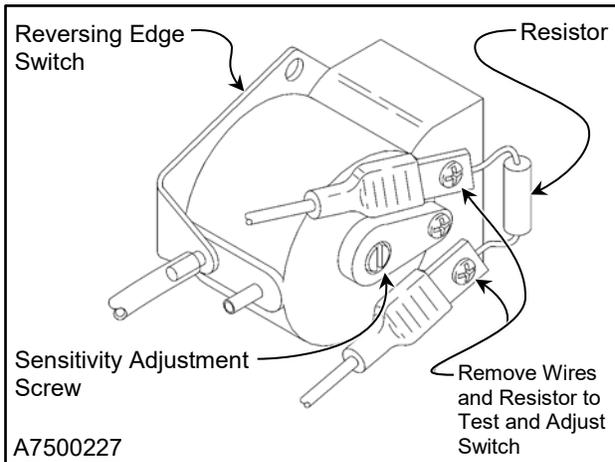


Figure 30

3. Reattach the resistor and wires and then replace the access cover on the bottom bar.

NOTE: If the reversing edge is set too sensitive, the door may reverse direction during the closing cycle, without the reversing edge coming in contact with an object. If this occurs, readjust the reversing edge switch.

PHOTO EYE ADJUSTMENT

NOTE: The photo eyes are an optional feature of the Sure-Seal, and may not be included in this installation of the door. Check the door to verify.

IMPORTANT: The photo eyes on the freezer doors have sensitivity settings that cannot be adjusted. Contact the Rytec Customer Support Department for further questions.

The photo eyes are provided as a safety feature. If the photo eyes are correctly installed, interrupting either set of eyes as the door is closing will reverse the direction of the door and hold it in the fully open position until the interruption is removed.

There are two sets of photo eyes. The front set of eyes monitors the front side of the door — they are mounted in a bracket 18 inches from the side column bottom. The rear set of eyes monitors the back side of the door — they are mounted in a hole 28 inches from the side column bottom.

The transmitter and receiver can be identified in two ways. The transmitter is designated SMT 3000 on the

label or by a single green light that comes on at the clear end of the transmitter. (See Figure 37) The receiver is designated SMR 3215 on the white label or by a yellow light that illuminates only when it is in proper alignment with the transmitter. (See Figure 38)

The cutout in the bracket is an exact fit for the photo eye; therefore, adjustments are minimal. If the yellow alignment light on the receiver is not lit, perform the following procedures:

- Check for obstruction in the path of the photo eyes.
- Clean lens on photo eyes.
- Check electrical connections.

If any of the procedures listed above do not work, troubleshoot the system and replace parts as necessary.

NOTE: When the cable is connected to the photo eye, there is only a 1/4-inch window to see the green or yellow LED light. If needed, adjust mounting bracket(s).

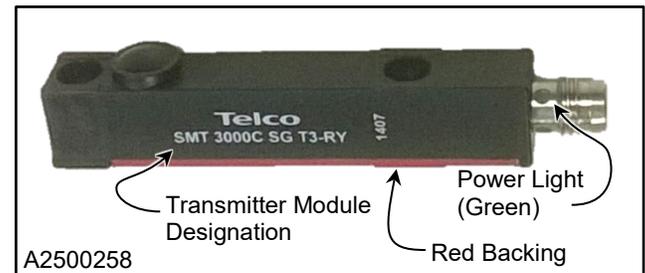


Figure 31

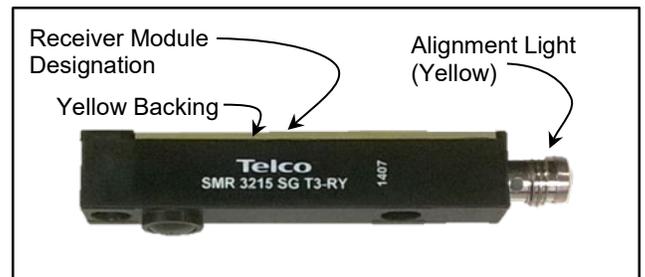


Figure 32

MOTOR BRAKE ADJUSTMENT

The motor gearbox brake is not designed to be adjusted. Therefore, if any issues develop regarding the brake please contact the RYTEC Technical Support Department at 800-628-1909.

ADJUSTMENTS-MOTOR BRAKE ADJUSTMENT

BOTTOM BAR BREAKAWAY-IMPACT SENSOR ADJUSTMENT

NOTE: The breakaway sensor is an optional feature for the Sure-Seal, and may not be included in this installation of the door. Check the door to verify.

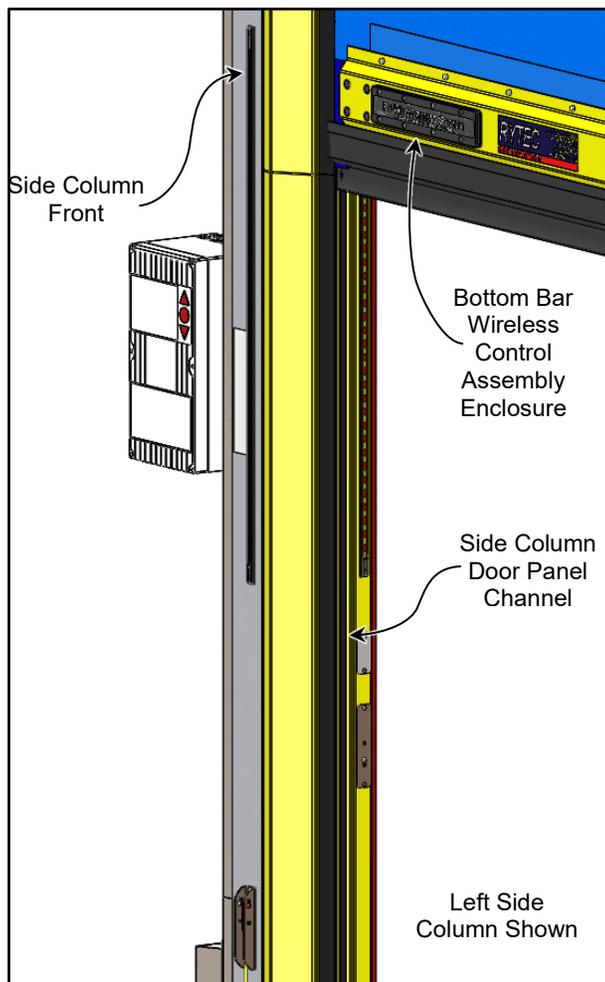
The Breakaway/Impact Sensor comes factory preset and does not need any adjustment. However, if for any reason this sensor is not functioning properly or as desired, this sensor may be adjusted. The sensor levels range from level 1 which is the lightest to level 5 which is the heaviest tripping impact.

Impact Sensor Adjustment

1. Move the door panel to the fully closed position or whatever height is preferable for accessing the bottom bar wireless control assembly enclosure. (See Figure 45)
2. Turn off power to the door.



3. **The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure.**



A8700023

Figure 33

IMPORTANT: Note how the wires are routed so they may be replaced in exactly the same position when reinstalled.

4. Remove the wireless enclosure cover from the bottom bar. Carefully pull the cover away from the enclosure as the antenna transmitter is secured to this and wires are routed to it also. (See Figure 46)

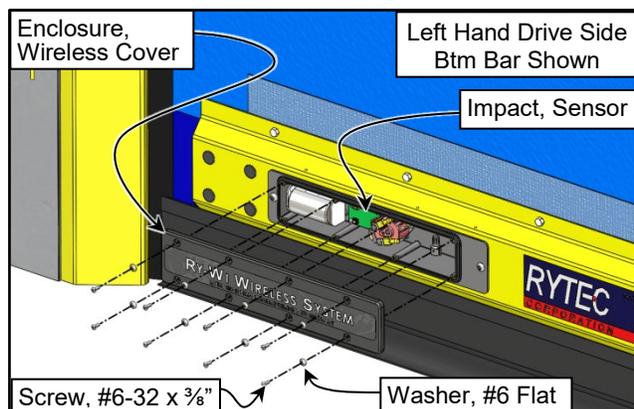


Figure 34

5. Identify the items contained in the bottom bar wireless control assembly and specifically the impact sensor. (See Figure 46)
6. Locate and identify the control setting button on the sensor. (See Figure 47)

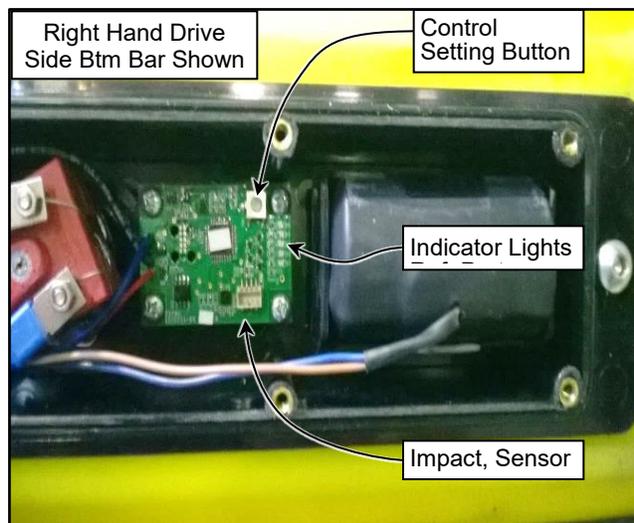


Figure 35

7. Check to see what the current setting is on the Impact Sensor. Do so by quickly pressing and releasing the Control Setting Button. The factory setting is @ 3. The indicator lights will light up as shown for approximately 3 seconds. (See Figure 48)

i.e. If the setting is currently @ 3, 3 lights will light up. If it is @ 4, 4 lights will light up, etc.

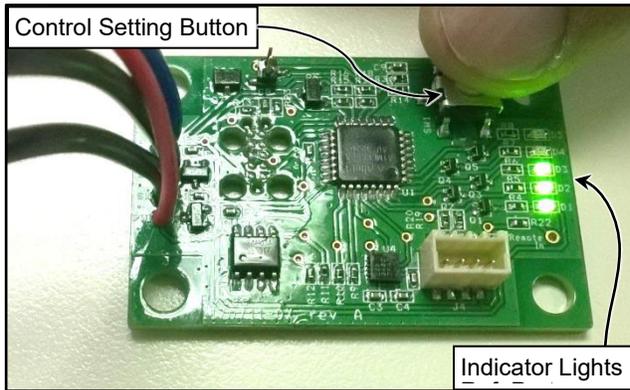


Figure 36

8. To change the setting you must quickly press and release the Control Setting Button and after the lights turn on but before they turn off, you can press the button to cycle through the settings. They can only cycle progressively, not regressively through the cycle.
i.e. you can change from 1 to 2 to 3 to 4 to 5 then back to 1.
9. After the desired setting is reached simply let the sensor lights turn off which indicates it is set to operational mode. They will turn off after about 3 seconds.
10. Reposition the wires and replace the cover on the bottom bar.
11. Restore power to the door.
12. Cycle the door several times to confirm that it is operating per specifications.

Impact Sensor RESET

At any time the Impact Sensor may be RESET to the factory settings by performing the following procedure.

1. Move the door panel to the fully closed position or whatever height is preferable for accessing the bottom bar wireless control assembly enclosure. (See Figure 45)
2. Turn off power to the door.

! WARNING

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure.

IMPORTANT: Note how the wires are routed so they may be replaced in exactly the same position when reinstalled.

3. Remove the wireless enclosure cover from the bottom bar. Carefully pull the cover away from the enclosure as the antenna transmitter is secured to this and wires are routed to it. (See Figure 46)
4. Identify the items contained in the bottom bar wireless control assembly and specifically the impact sensor. (See Figure 46)
5. Locate and identify the control setting button on the sensor. (See Figure 47)
6. RESET the Impact Sensor by depressing the Control Setting Button and holding it down until the level indicator lights (D1 thru D5) turn on and then turn off. (See Figure 48)
7. Immediately after the level indicator lights turn off release the Control Setting Button. Upon releasing the button the lights will once again turn on for a couple seconds, turn off, then a single light will momentarily turn on and then turn off. After this cycle is complete the Impact Sensor should be reset to the factory settings.
8. Reposition the wires and replace the cover on the bottom bar.
9. Restore power to the door.
10. Cycle the door several times to confirm that it is operating per specifications.

REPLACEMENT PROCEDURES-BRUSH SEAL REPLACEMENT

REPLACEMENT PROCEDURES

BRUSH SEAL REPLACEMENT

Head Assembly

⚠ WARNING

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure.

NOTE: The brush seal is mounted on the underside of the head assembly to the wall and forms a seal to the back side of the fabric roll.

1. Turn off power to the door.
2. Remove the #12-14 x 1.0 Hex head Tek screws. (See Figure 55)
3. Figure 55)

NOTE: There is a minimum quantity of six truss head screws to hold the brush seal in place. Since all doors are custom built, wider doors will have more hardware to fasten the brush seal to the wall.

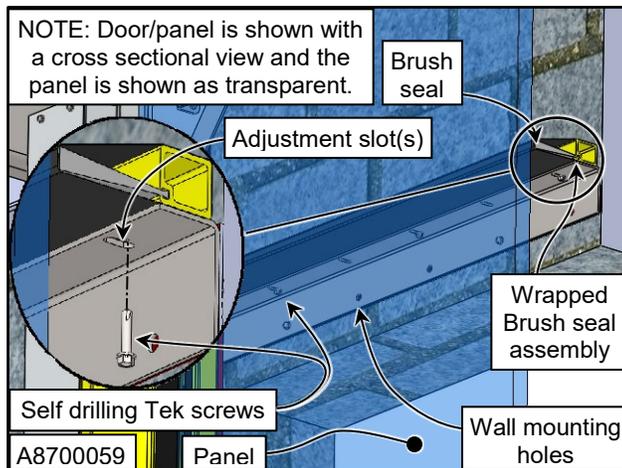


Figure 37

4. Replace the brush in the brush seal assembly and reinstall the hardware.
5. Adjust the Brush Seal as necessary to provide a proper seal for the door.
6. Restore power and return the door to service.

NOTE: Properly align and do not over-tighten the self-tapping tek screws. Care must be taken to prevent stripping the threads or the seal integrity, performance, and function may be compromised.

Side Column Assembly-Lower Section

⚠ WARNING

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure.

1. Turn off power to the door.
2. Gain access to top of brush seals.
3. Remove screw(s) from the top of the brush seal. (See Figure 56)

NOTE: Brush seals may be replaced one at a time.

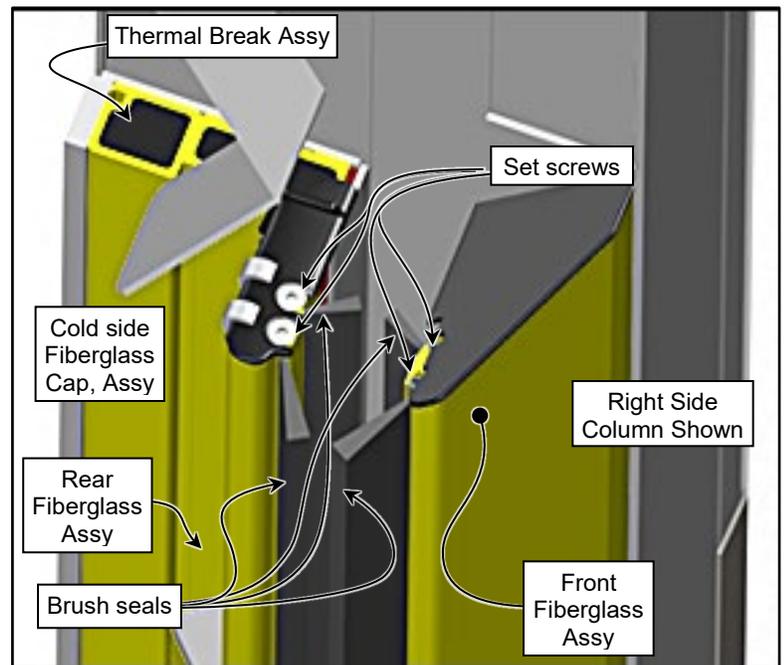


Figure 38

4. Remove the old brush seal by sliding it out of the track. (See Figure 56)
5. Slide a new brush seal into the track.
6. Re-Install screw(s) into the track to lock the new brush seal in place. (See Figure 56)

NOTE: Properly align and do not over-tighten the screws. Care must be taken to prevent stripping the threads or the seal integrity, performance, and function may be compromised.

REPLACEMENT PROCEDURES-BRUSH SEAL REPLACEMENT

Side Column Assembly-Lower Section (When applicable)

WARNING

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure.

1. Close the door and turn off power to the door.
2. Remove the lower side column cover(s) behind the lower fiberglass assembly sections after removing the screws holding them in place. (See Figure 57)

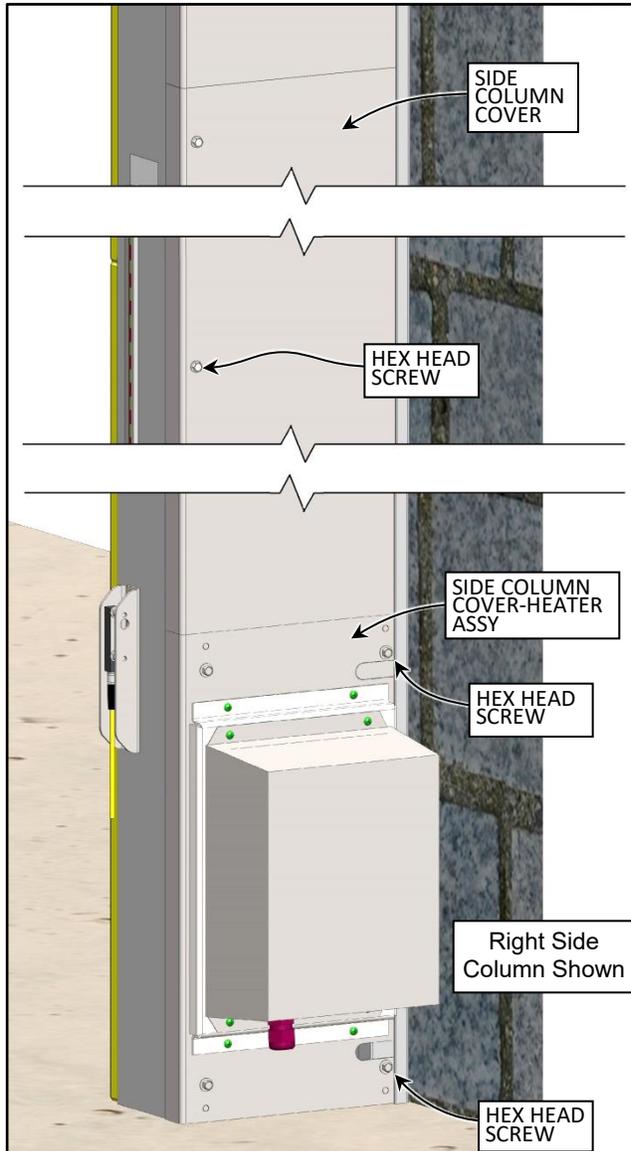


Figure 39

3. Remove the self drilling hex head tek screws securing the front fiberglass seal assembly to the side column. Do not strip the threads cut into the assembly. (See Figure 58)

4. Remove the assembly from the side column. Remove the old brush seal(s) by sliding it/them out of the track. The brushes are held in place by silicone at the bottom and needs to be removed.
5. Slide a new brush seal into the track. Apply fresh silicone at the bottom.
6. Re-install the assembly into side column in exact same location. Do not over-tighten the fasteners. This may strip threads. Align assembly in side column w/ the upper assembly.

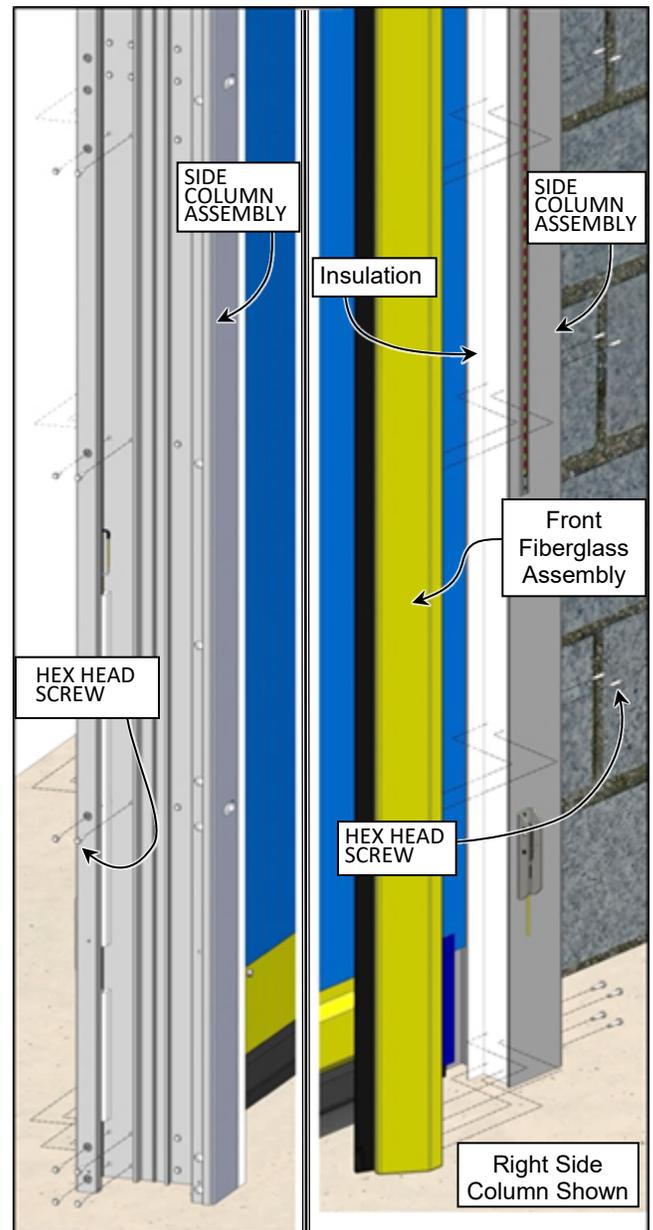


Figure 40

7. Repeat this procedure for rear lower fiberglass assembly.
8. Re-install the lower side column cover(s).
9. Repeat this procedure for the opposite side assemblies.

PARTS LIST-PARTS ORDERING INFORMATION

PARTS LIST

PARTS ORDERING INFORMATION

How to Order Parts

1. Identify the parts required by referring to the following pages for part numbers and part descriptions.
2. To place an order, contact your local Rytec representative or the Rytec Technical Support Department at 800-628-1909 or 262-677-2058 (fax). Rytec Corporation also has an on-line store at WWW.Rytecparts.com access to this on-line store requires an invitation from Rytec. The on-line store is open 24/7, 365 days. Some items are available to ship next day. Not all Rytec parts are carried in the on-line store.
3. To ensure the correct parts are shipped, please include the serial number of your door with the order. The serial number is located on the door in several locations per the "DOOR SERIAL NUMBER(S)" section (See page 1). All these serial numbers should match. (See Figure 59)

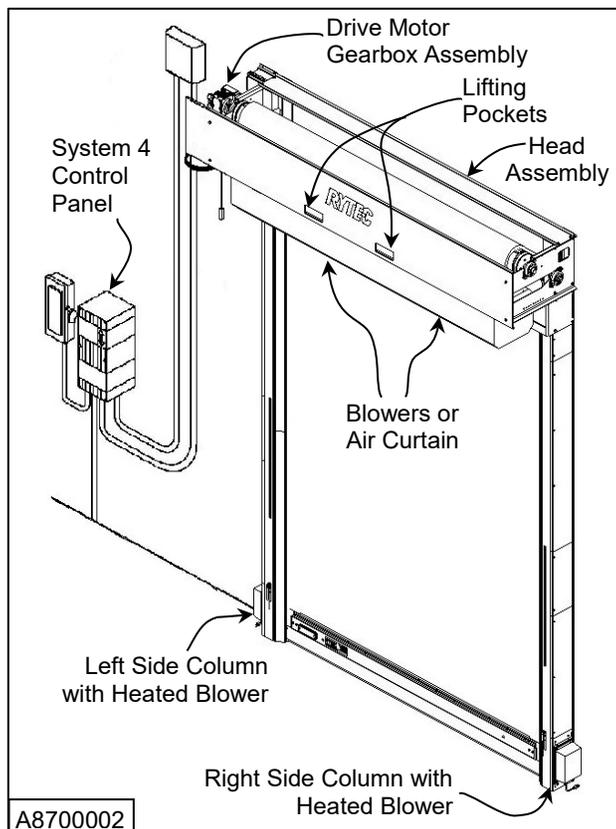


Figure 41

Substitute Parts

Due to special engineering and product enhancement, the actual parts used on your door may be different from those shown in this manual.

Also, if a part has been improved in design and bears a revised part number, the improved part will be substituted for the part ordered.

Return of Parts

Rytec will not accept the return of any parts unless they are accompanied by a Return Merchandise Authorization (RMA) form.

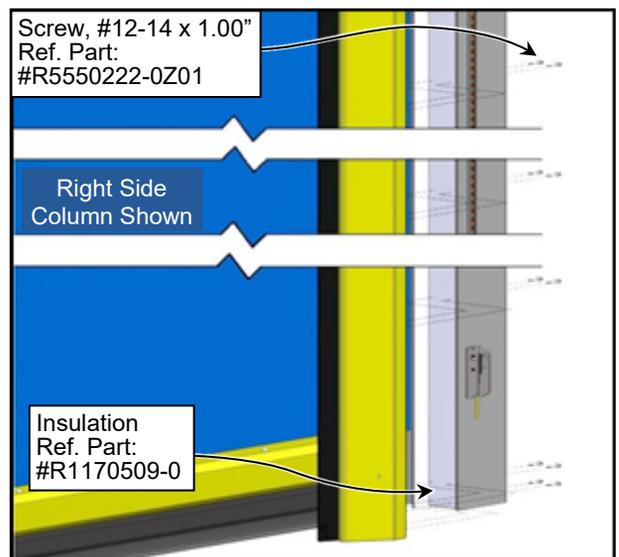
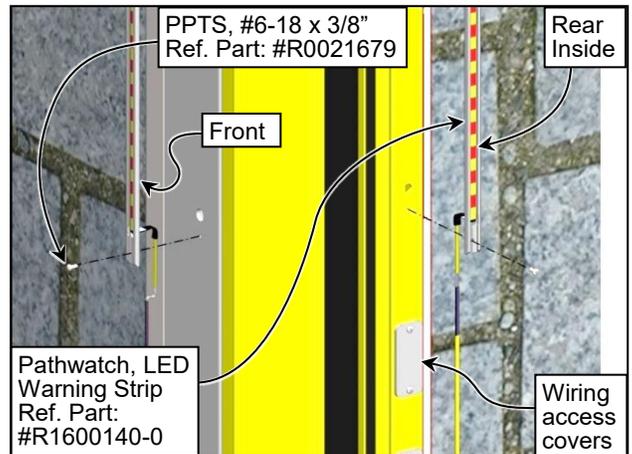
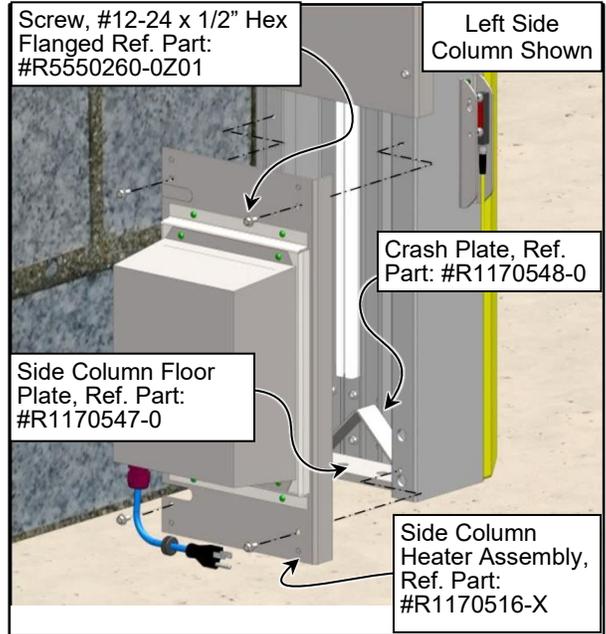
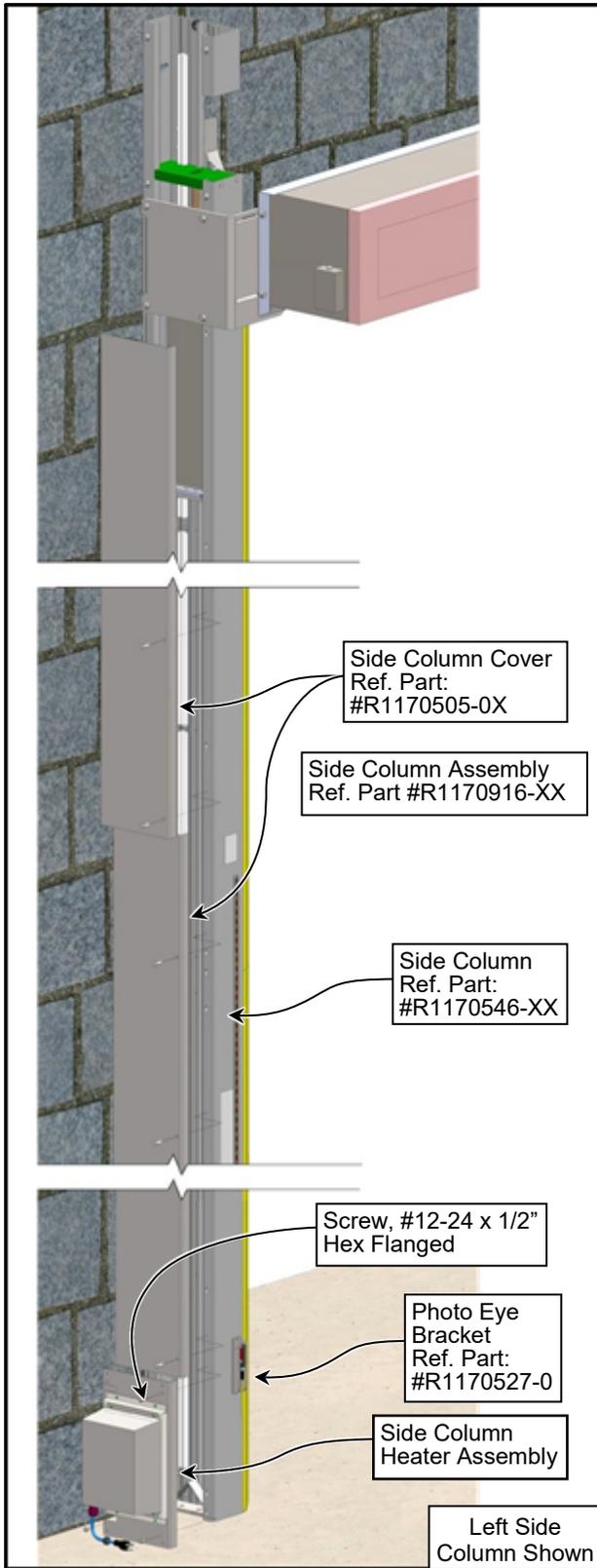
Before returning any parts, you must first contact the Rytec Technical Support Department to obtain authorization and an RMA number.

IMPORTANT: Obtain an incident number from the Rytec Technical Support Technician.

RYTEC TECHNICAL KNOWLEDGE CENTER

At WWW.Rytecdoors.com under the "Contact Us" pull down tab, a link to the Rytec Technical Knowledge Center can be found by selecting the "Customer Support" option. You will be directed to the Customer Support webpage. Within the "Technical Documents and Manuals" section you will find the link "Rytec Technical Knowledge Center". This knowledge center contains on-line manuals, service bulletins, and video presentations of various Rytec models and repair information.

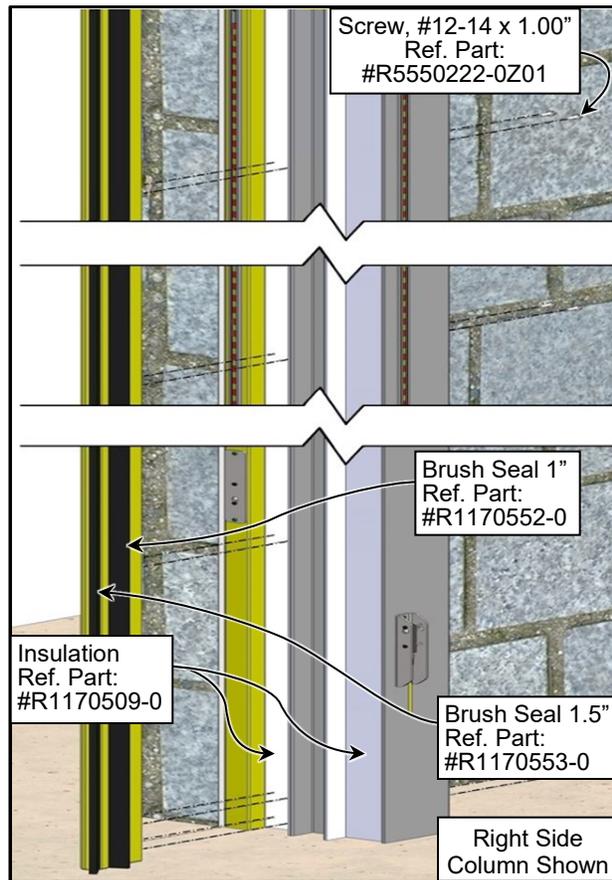
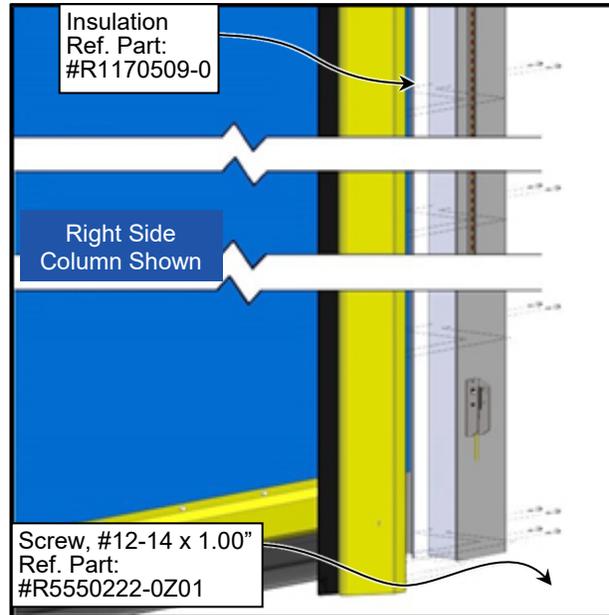
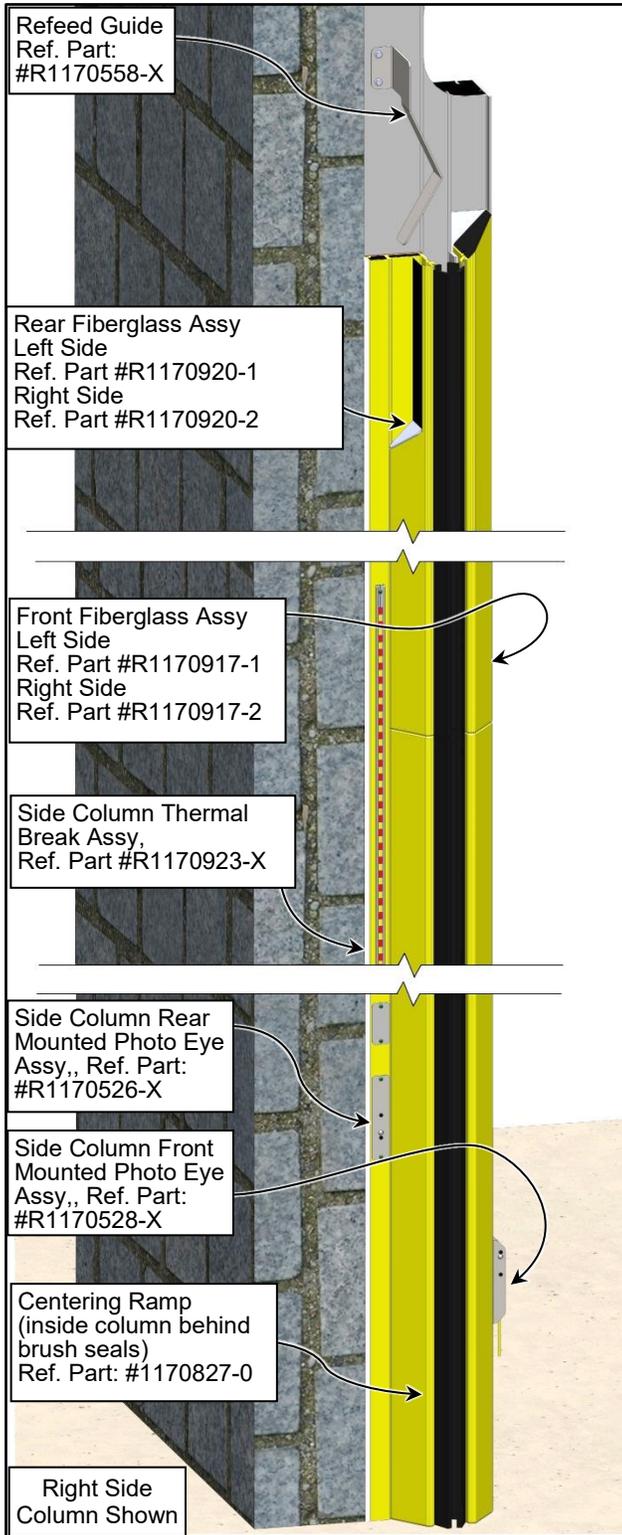
SIDE COLUMN ASSEMBLY



ALWAYS INCLUDE SERIAL NUMBER OF DOOR WHEN PLACING ORDER
 Due to product enhancement, the actual parts on your door may be different from those shown in this manual.

PARTS LIST-SIDE COLUMN ASSEMBLY

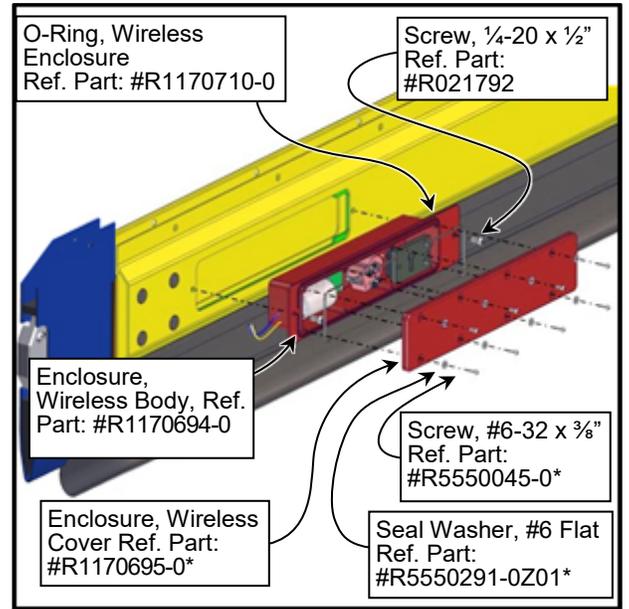
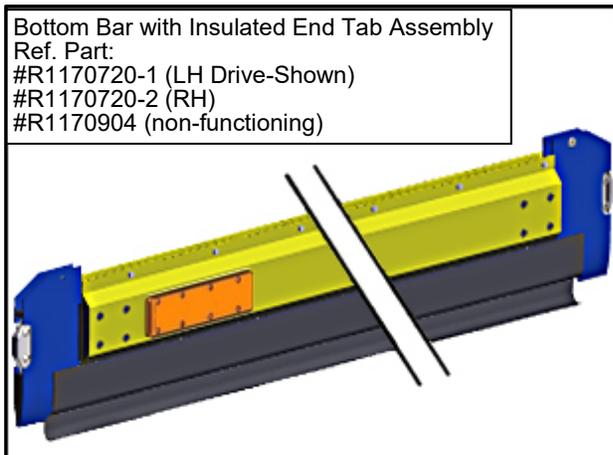
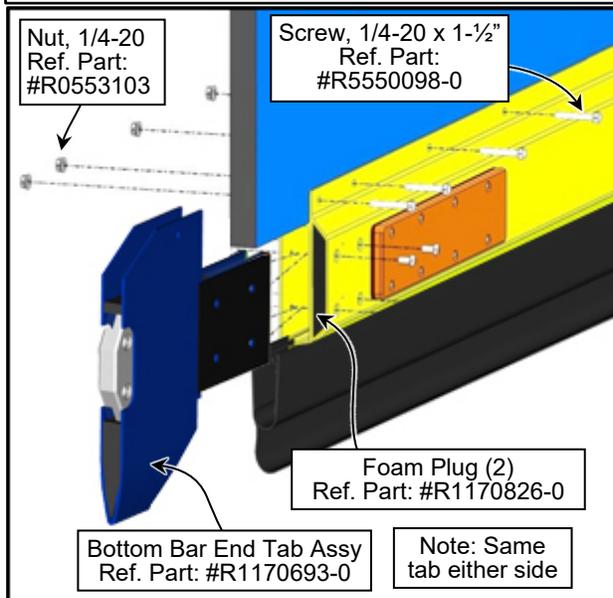
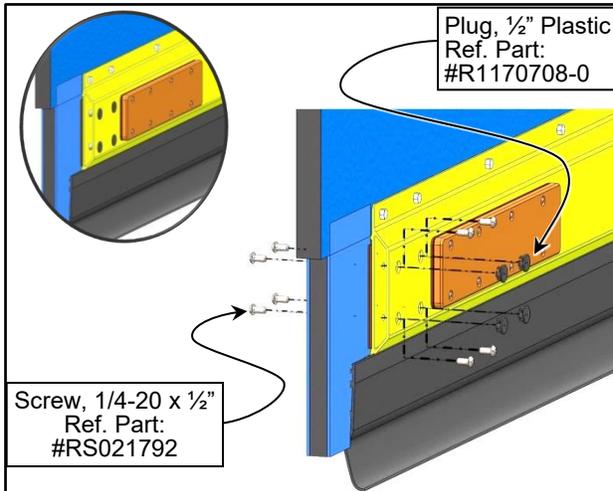
SIDE COLUMN ASSEMBLY



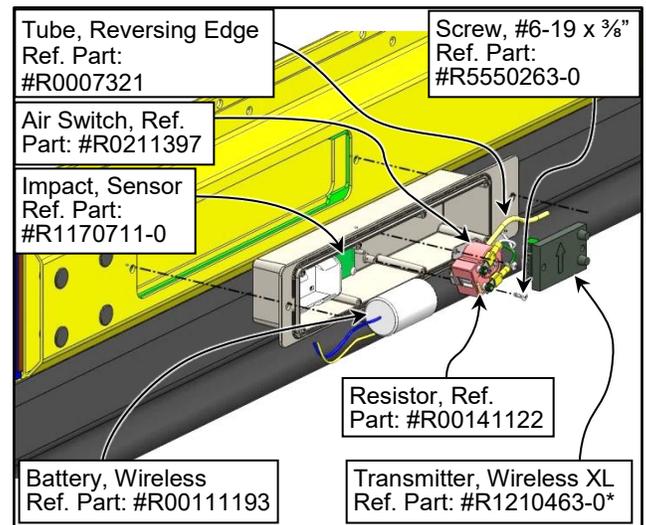
ALWAYS INCLUDE SERIAL NUMBER OF DOOR WHEN PLACING ORDER

Due to product enhancement, the actual parts on your door may be different from those shown in this manual.

BOTTOM BAR ASSEMBLY



* Contained in Assembly #R1180001-0C



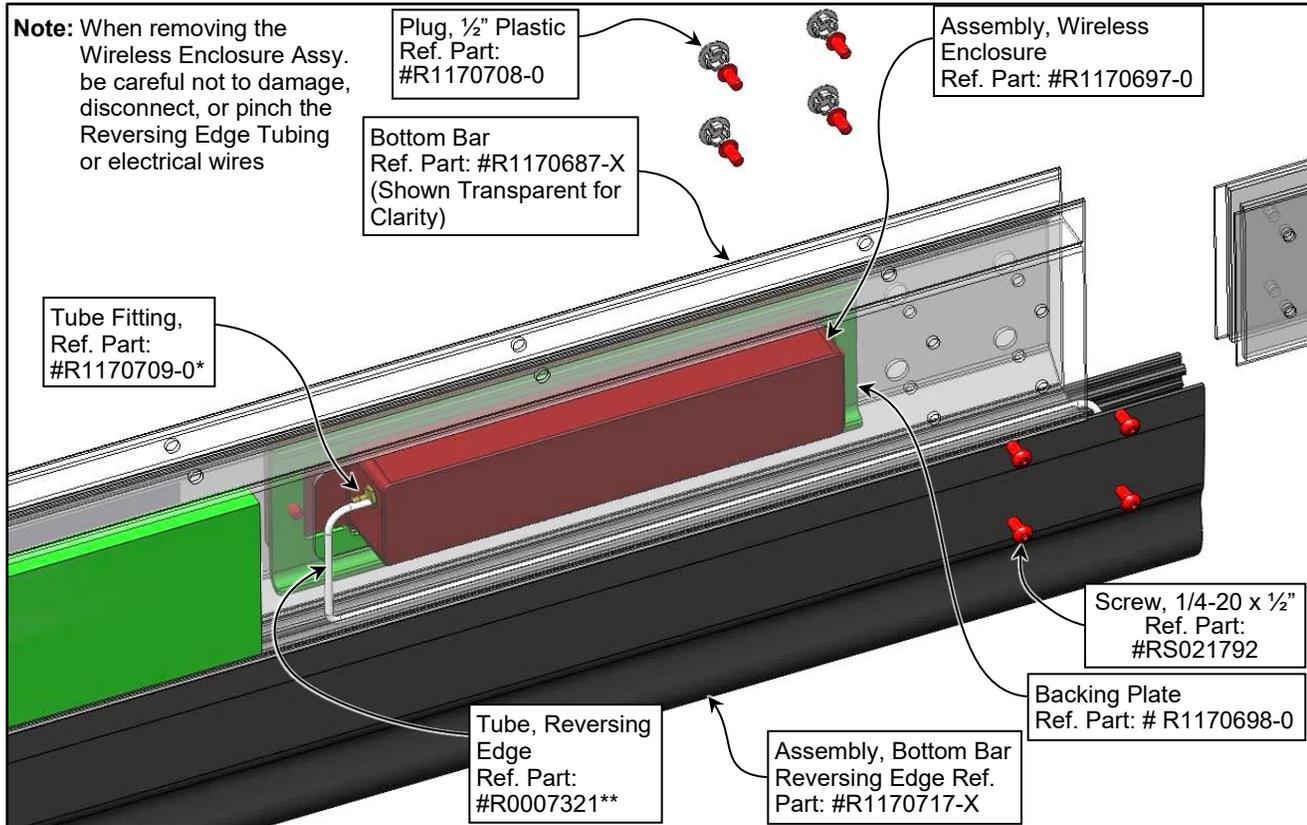
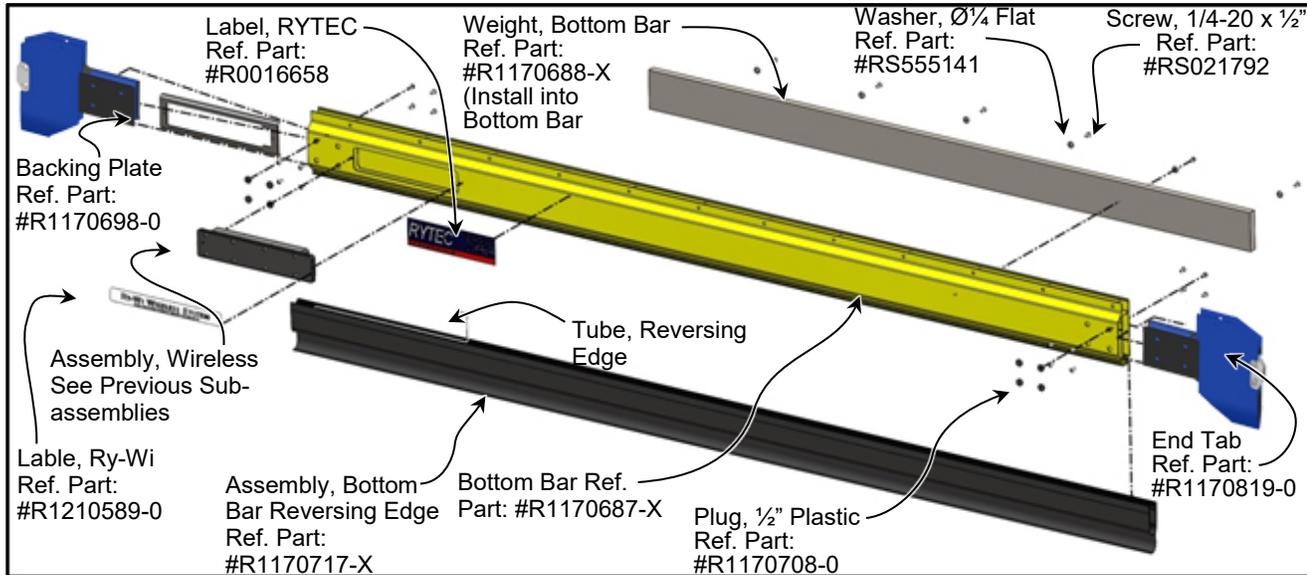
* Contained in Assembly #R1180001-0C

ALWAYS INCLUDE SERIAL NUMBER OF DOOR WHEN PLACING ORDER

Due to product enhancement, the actual parts on your door may be different from those shown in this manual.

PARTS LIST-BOTTOM BAR ASSEMBLY

BOTTOM BAR ASSEMBLY



* Contained in Assembly #R1170697-0

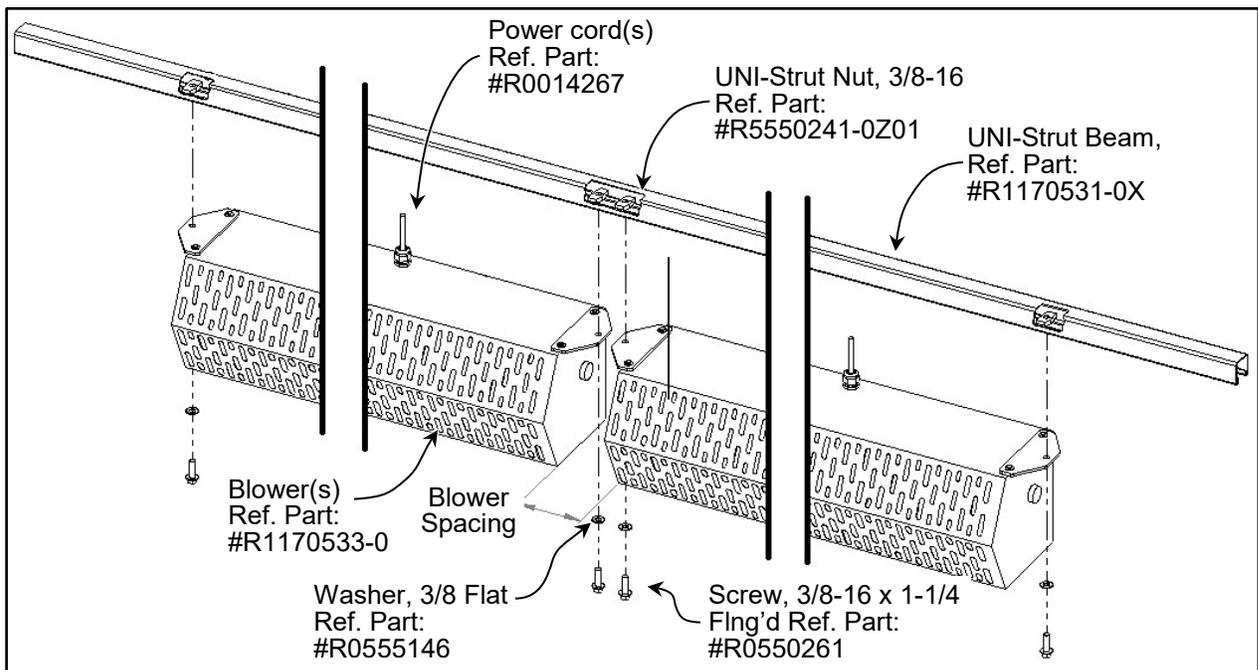
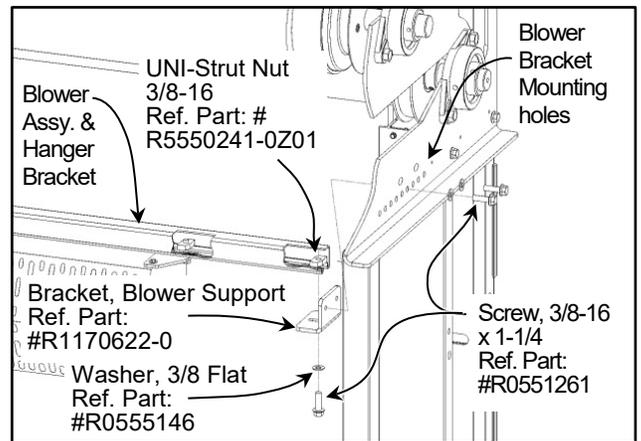
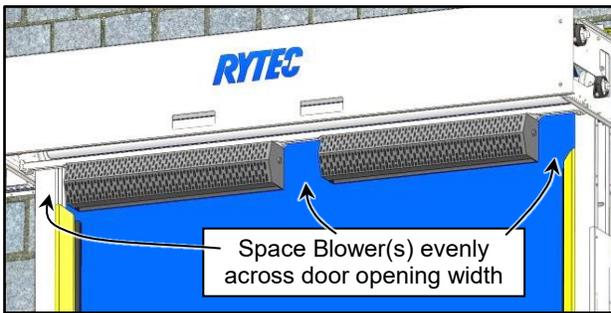
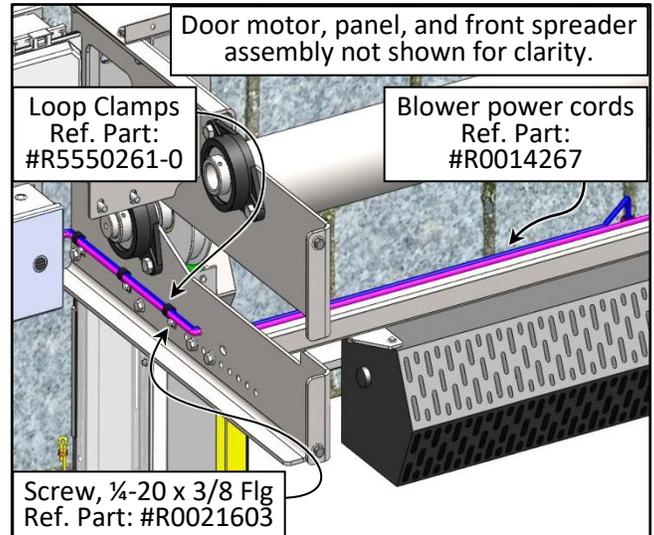
** Contained in Assembly #R1170717-0

ALWAYS INCLUDE SERIAL NUMBER OF DOOR WHEN PLACING ORDER

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PARTS LIST-AIR BLOWER & BRACKET ASSEMBLY

AIR BLOWER & BRACKET ASSEMBLY

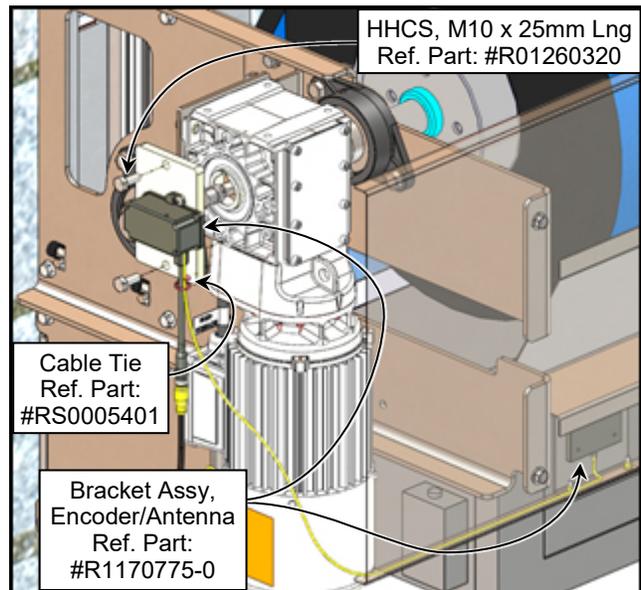
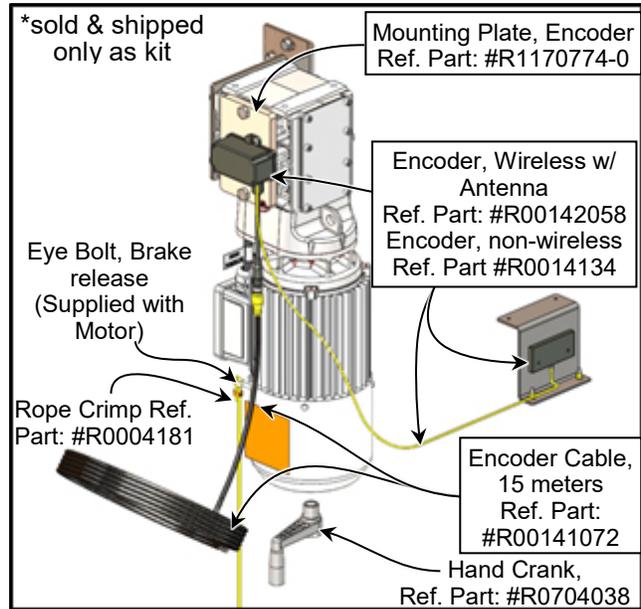
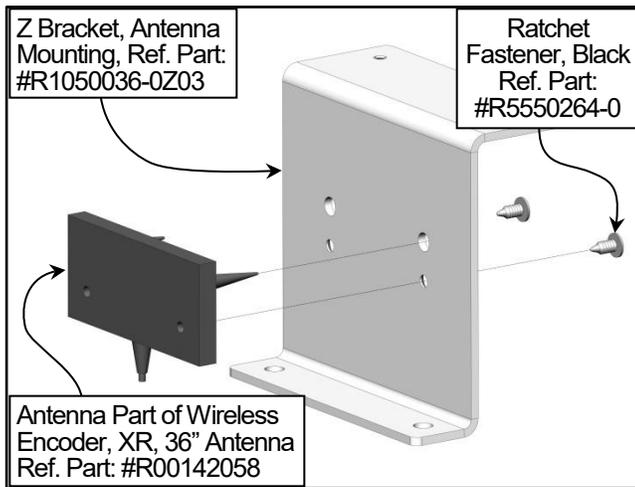
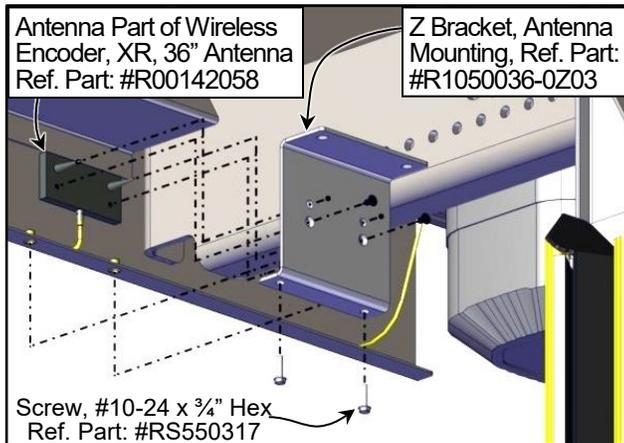
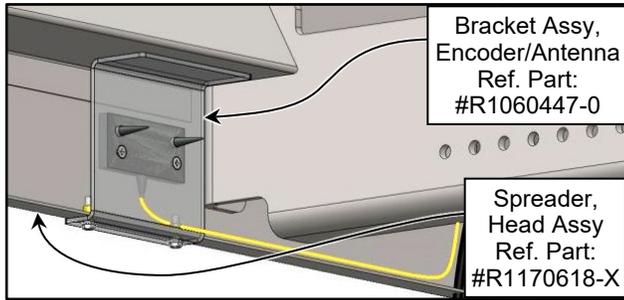


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PARTS LIST-ENCODER AND MOTORASSEMBLY

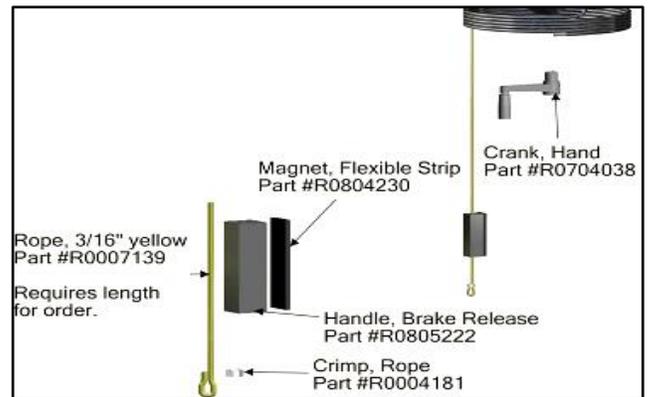
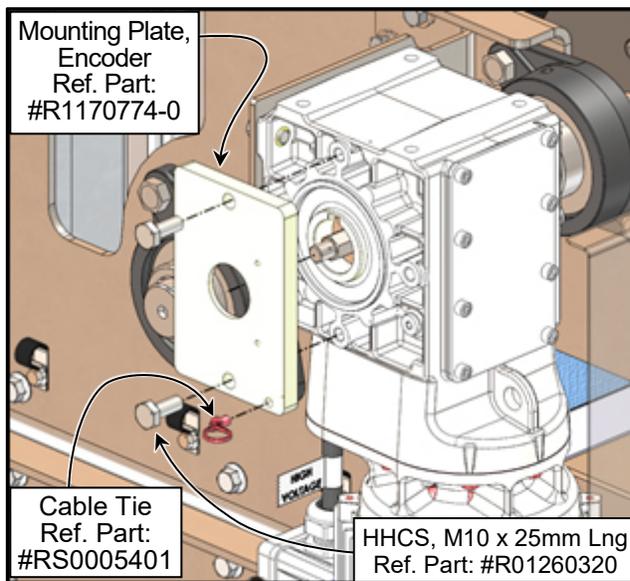
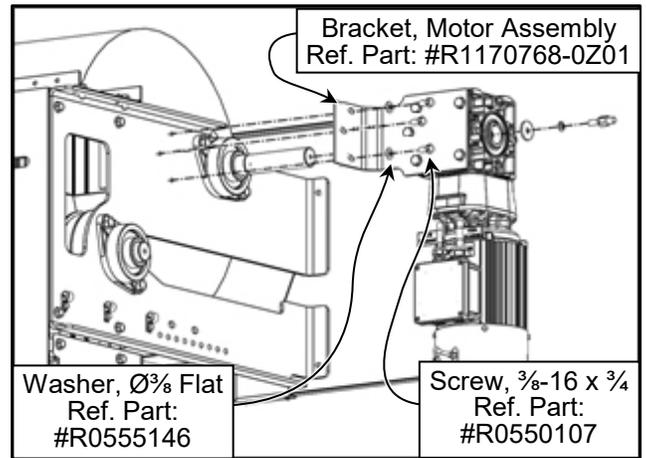
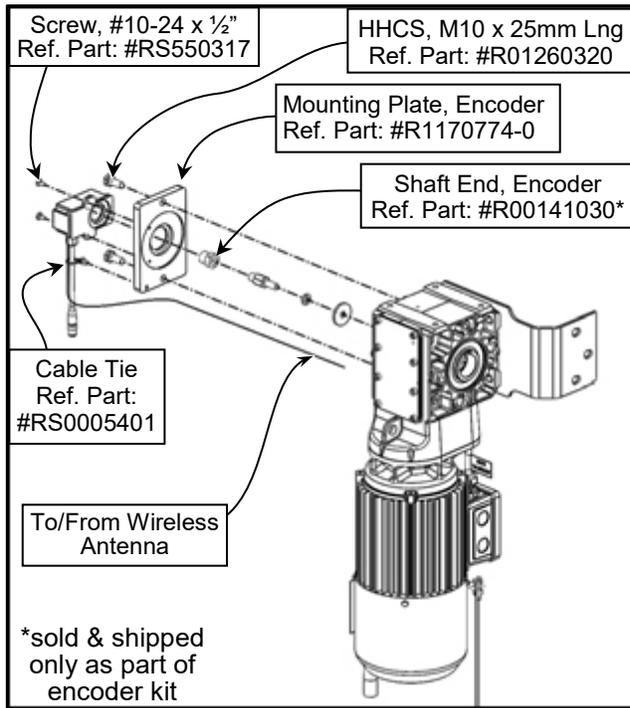
ENCODER AND MOTORASSEMBLY



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PARTS LIST-ENCODER AND MOTORASSEMBLY

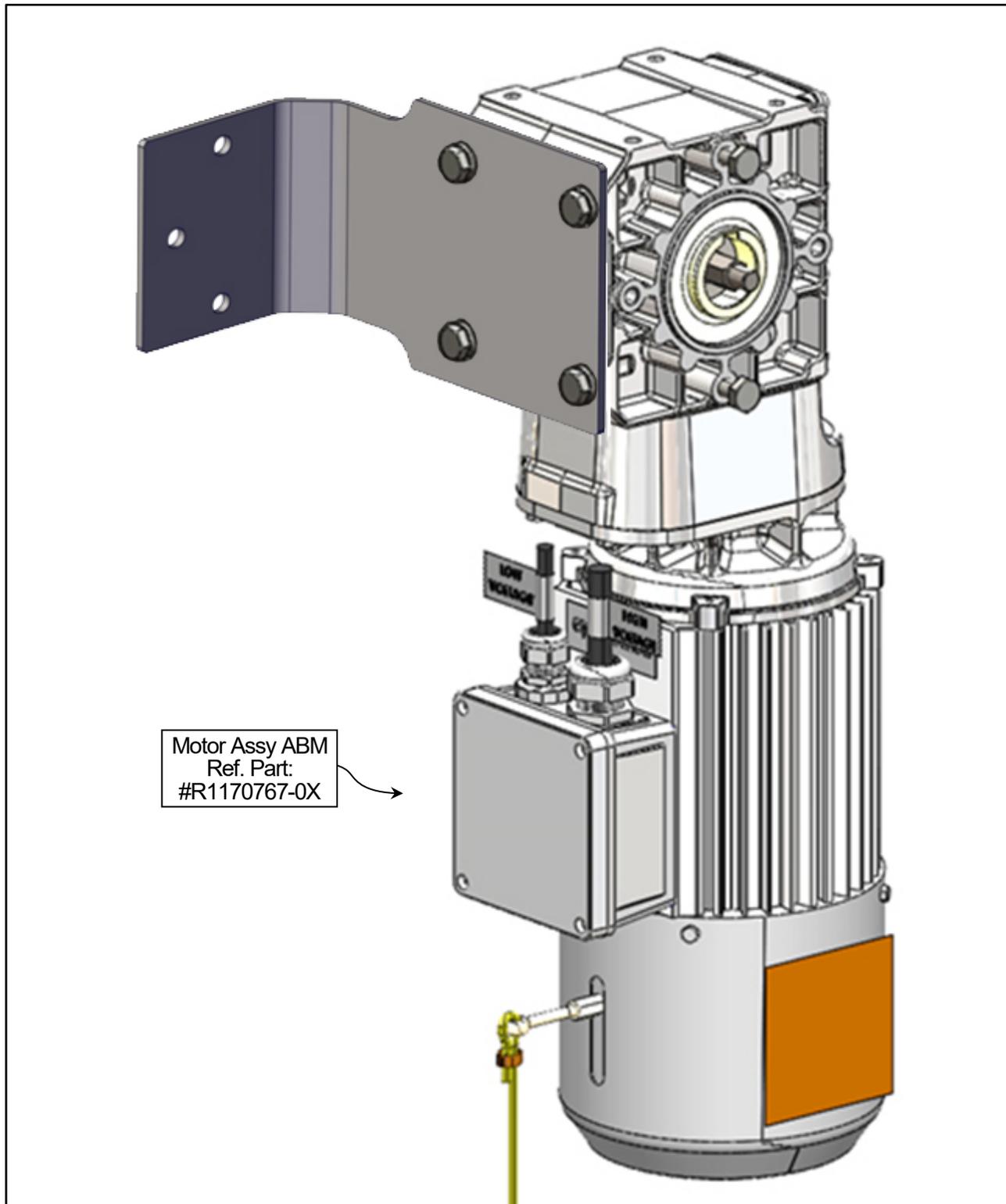


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PARTS LIST-MOTOR ASSEMBLY

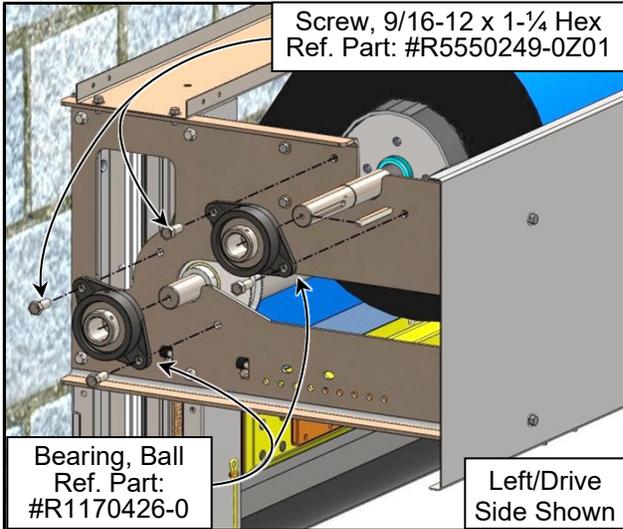
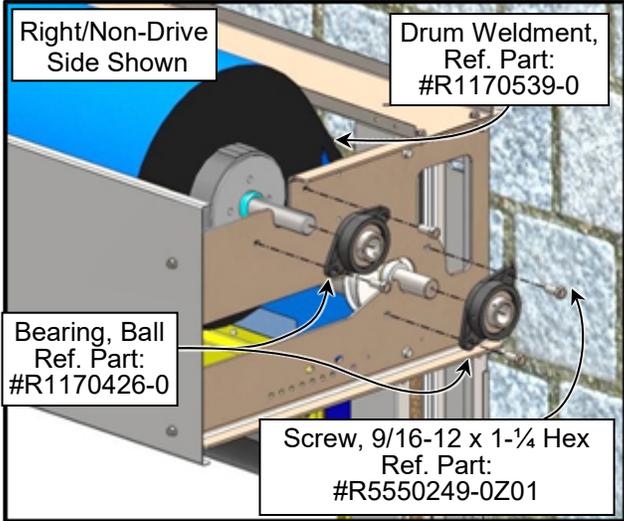
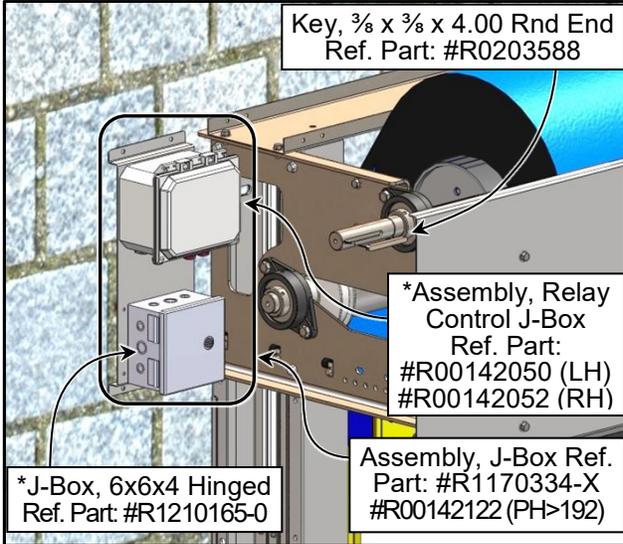
MOTOR ASSEMBLY



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HEAD ASSEMBLY

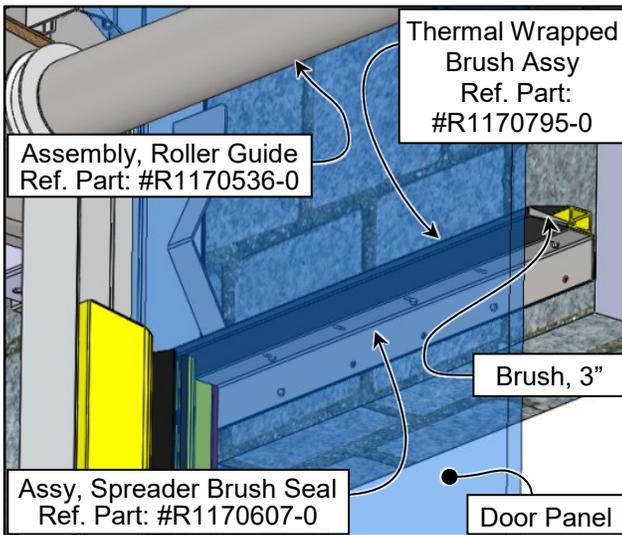
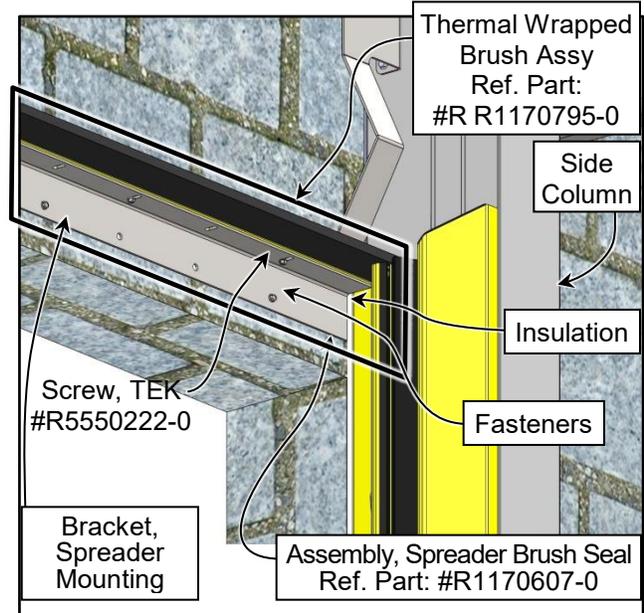
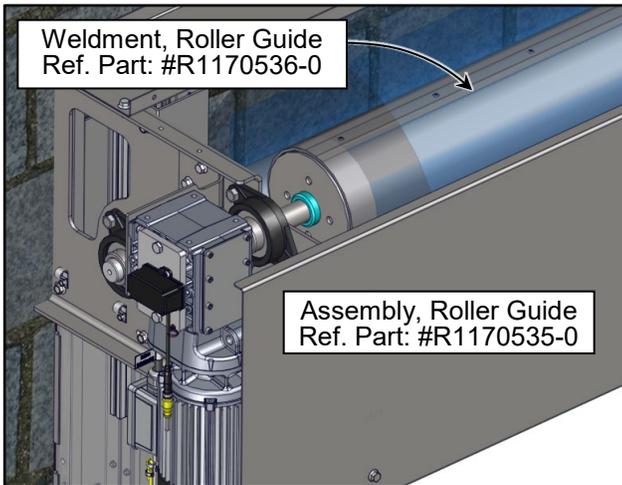
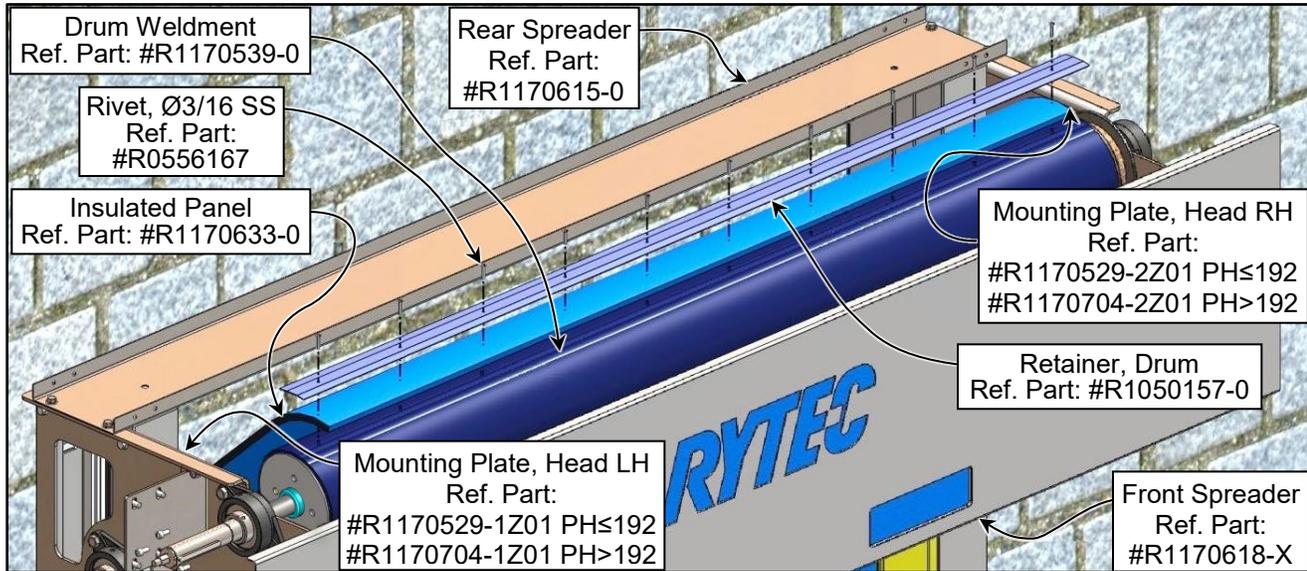


* Not included on Assemblies (PH>192)

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PARTS LIST-HEAD ASSEMBLY

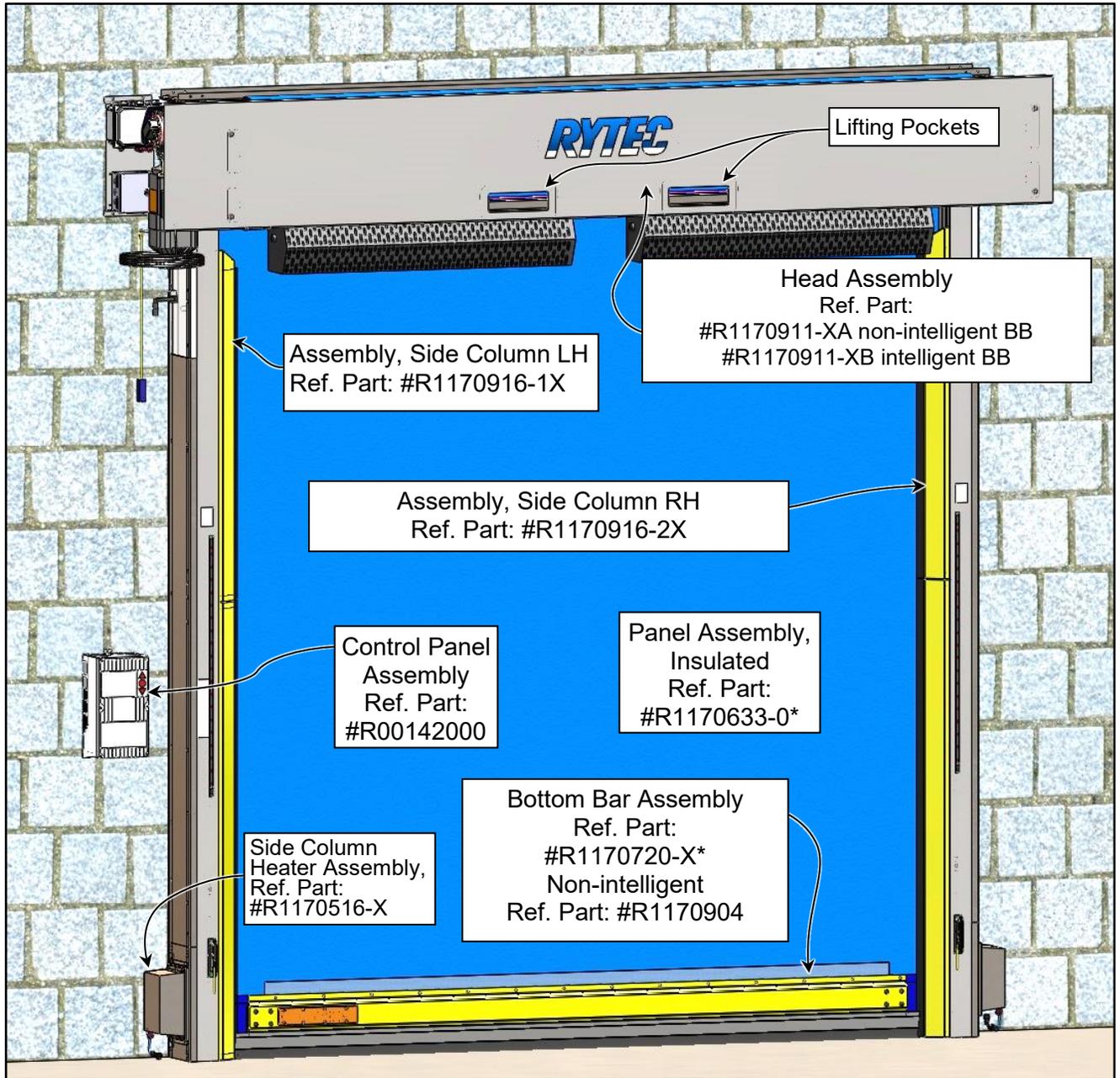
HEAD ASSEMBLY



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LIFTING POCKET & DOOR ASSEMBLY LAYOUT



* Contained in Head Assembly #R1170616-0

Panel Repair Kits:

#R1170349-0 Repair Kit Assy, G3 Film Strip with PSA, 2.5 x 24

#R1170350-0 Repair Kit Assy, G3 Insulating Foam Panel with PSA, 12 x 12

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