R Y T E C

Plexline[®]

Owner's Manual



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PLEXLINE® PL5000 & PL5500 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 **Plexline® PL5000 & PL5500** ("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 Two (2) Years from the date of shipment of the Product from the Seller's plant ("Shipment").
- Electrical components for a period of Two (2) Years from Shipment.
- Standard door panels, including Vinyl, for a period of One (1) Year from Shipment.
- Optional door panels, including 2 Ply Rilon and 2 Ply USDA for a period of Three (3) Years from shipment and screen, windows, for a period of One (1) Year from shipment.
- Brush or vinyl seals, side column wear strips, Vinyl Loop Seal, Vision Panel Sections, Wind rib guides, wireless mobile unit battery are considered wear items and are not covered under this Limited Warranty.
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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.

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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.

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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 Product 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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TABLE OF CONTENTS

	PAGE
INTRODUCTION	1
HOW TO USE MANUAL	1
DOOR SERIAL NUMBER(S)	1
GENERAL ARRANGEMENT OF DOOR COMPONENTS	1
OPERATION	2
OPERATING CONTROL SYSTEM	2
PHOTO EYES	2
BOTTOM BAR ASSEMBLY	2
Breakaway Capability	2
IMPACT	2
REPAIR (RETURN TO OPERATING POSITION)	2
Reversing Edge	3
POWER DRIVE SYSTEM	3
SAMPLE OBJECT LIST	3
MOVE THE DOOR MANUALLY	4
Lower Door with Hand Crank	4
Raise Door with Hand Crank	5
Lower Door with Manual Brake Release	5
Raise Door with Manual Brake Release	6
PLANNED MAINTENANCE	6
RECOMMENDED SCHEDULE	6
DAILY INSPECTION	6
Damage Inspection	6
Door Operation	7
Reversing Edge Inspection	7
Photo Eye Inspection	7
QUARTERLY INSPECTION	7
Mounting Hardware Inspection	7
MOTOR MOUNTING HARDWARE	7
ENCODER HARDWARE	8
SIDE COLUMN HARDWARE	8
BEARING BLOCK HARDWARE	8
Fabric Inspection	8
Door Limit Inspection	9
	9
Motor Brake Inspection	
Bottom Bar Inspection	10

TABLE OF CONTENTS

	PAGE
Kill Switch Inspection	10
Lubrication	10
Weather Seal Inspection	11
HEADER ASSEMBLY	11
SIDE COLUMNS	11
Activator/Control Panel Inspection	11
Electrical Connection Inspection	12
ADJUSTMENTS	12
DOOR OPEN- AND CLOSE-LIMIT POSITIONS	12
Close-Limit Position	12
Open-Limit Position	12
PNEUMATIC REVERSING EDGE SWITCH ADJUSTMENT	13
Reversing Edge Switch Air Bleed Check	13
Reversing Edge Switch Sensitivity Adjustment	13
PNEUMATIC KILL SWITCH ADJUSTMENT	14
Kill Switch Air Bleed Check	14
Kill Switch Sensitivity Adjustment	14
PHOTO EYE ADJUSTMENT	15
MOTOR BRAKE ADJUSTMENT	15
REPLACEMENT PROCEDURES	16
COUNTERWEIGHT STRAP	16
IDLER PULLEY	18
NON-DRIVE BEARING	19
MOTOR/GEARBOX	20
BRUSH AND WEATHER SEAL(S)	24
Spreader Assembly	24
Side Column and Cover	25
WEAR STRIP(S)	26
Side Column and Cover	26
PARTS LIST	27
PARTS ORDERING INFORMATION	27
How to Order Parts	27
Substitute Parts	27
Return of Parts	27
RYTEC TECHNCIAL KNOWLEDGE CENTER	27
SIDE COLUMN	28
SIDE COLUMN W/BRAKE & COUNTERWEIGHT	

TABLE OF CONTENTS

	PAGE
SIDE COLUMN – COUNTERWEIGHT	31
REAR SPREADER — BRUSH SEAL	32
REAR SPREADER — ANTENNA HARDWARE & ENCODER	33
MOTOR ASSEMBLY	34
DRUM ASSEMBLY	35
BOTTOM BAR ASSEMBLY	36
HOOD ASSEMBLY	38
PHOTO EYES	39
COMMON SPARE PARTS	40

INTRODUCTION

The information contained in this manual will allow you to operate and maintain your Rytec[®] Plexline[®] Door in a manner which will ensure maximum life and trouble-free operation.

Any unauthorized changes to these procedures, or failure to follow the steps as outlined, will automatically void the warranty. Any changes to the working parts, assemblies, or specifications as written, which 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.

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 wiring connections and schematics in this manual are for general information purposes only. A wiring schematic is provided with each individual door specifically covering the control panel and electrical components of that door. The schematic for a specific door is shipped inside the cover of the System 4 control panel.

HOW TO USE MANUAL

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



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



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 three (3) universal locations that this information can be attained. These are on the left & right side column assembly (at approximately eye level), on the drive motor assembly, and inside the door of the System 4 Control panel. (See Figure 1)



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, drive assembly, etc.). Failure to do this will void the manufacturer's warranty and may lead to catastrophic failure and/or personal injury! Mark any items not previously marked.

NOTE: The following illustration shows the front side of the door. Left and right sides are determined when viewing the front side of the door.



GENERAL ARRANGEMENT OF DOOR COMPONENTS

Figure 1 shows the location of the major components of your Plexline door. This illustration also shows the general placement of the associated control subassemblies for a typical installation.

OPERATION-OPERATING CONTROL SYSTEM

The illustration is provided to you for informational purposes only. It should not be relied upon solely for the operation and maintenance of your door and its sub-assemblies.

OPERATION

OPERATING CONTROL SYSTEM

The Plexline door is equipped with the Rytec System 4 Drive & Control, a solid-state, microprocessorbased 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 & Owner's Manual. (See Figure 2)



Figure 2

PHOTO EYES

Your Plexline is equipped with four photo eyes, one mounted in each side column and the other set field installed in the front of the door. The purpose of these photo eyes is to hold the door open or, if the door is closing, reverse the door to the open position if a vehicle, person, or any object is in the path of the photo eye beam.

The photo eye is not active when the door is closed. After the obstruction breaking the photo eye beam is removed:

- The door will remain open if it was originally opened by a non-automatic activator until it is closed by a non-automatic activator.
- The door will close automatically if it was originally opened with an automatic activator.

BOTTOM BAR ASSEMBLY

The bottom bar assembly provides two functions: breakaway capability and reversing edge.

Breakaway Capability

IMPACT

Plastic tabs mounted at each end of the bottom bar pro-vide adequate strength to keep the assembly in contact with the side columns during normal operation. The tabs, however, are flexible enough to allow the bottom bar to separate from either or both of the side columns if the bottom bar is struck by a vehicle or load passing through the door. A kill switch assembly made up of air bladders and a pressure switch mounted in the bottom bar will turn off electrical power to the door if the bottom bar is separated from the side column. This feature prevents the bottom bar from being bent or damaged if struck by a vehicle or load.



Figure 3

REPAIR (RETURN TO OPERATING POSITION)

IMPORTANT: If the bottom bar or door panel assembly has been damaged, remove door from service.

1. Position the plastic tabs of the bottom bar in front of the side column. (See Figure 3) 4



Figure 4

2. Press and hold the up arrow on the control panel until the door is in the fully open position. (See Figure 4)





Figure 5

- 3. Press the down arrow and the door will close in automatic mode and be ready for service.
 - NOTE: It should not be possible to restart the door until the door has been reassembled and the control system reset. Check to make sure that the fabric is inside each channel.
- 4. Perform operations check of the door.

Reversing Edge

The door is equipped with a pneumatic reversing edge mounted at the bottom of the bottom bar assembly. If an object is left in the path of the door panel as it closes, the pressure-sensitive edge will sense the contact with the object and automatically reverse the door to the open position, thus preventing damage to the bottom bar. (See Figure 6)



Figure 6

POWER DRIVE SYSTEM

The Plexline power drive system consists of an electric motor/brake assembly, reduction gear assembly, and encoder. The standard Plexline is equipped with a variable-speed motor. The control system will vary the door speed depending on door position. The power drive system can be mounted on either the right or left end of the fabric roll.

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 a power failure occurs, or when routine maintenance needs to be per- formed with the power disconnected. A hand crank (provided with your door) is used to manually open or close the door. (See Figure 7)

An encoder, mounted on the end of the fabric drum shaft, generates electrical signals as the door panel moves. These signals are used by the control system to monitor the position of the door. (See Figure 7)



Figure 7

SAMPLE OBJECT LIST

Included with every door shipped is an Object List as shown in Figure 8 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.

OPERATION-MOVE THE DOOR MANUALLY

DVTEP	Object list Duplicate		Material number 1601			
	Material description		Order number	Order quantity		
CORPORATION	PLEXLINE		XXXXXXX	1 EA		
MRP controller	Production scheduler	Order type	Start	Finish		
100	T3	ZP02	08/03/2017	08/03/2017		
MAIN ZMAT	Tier 3	RYTEC MTO	_			
Status		Plant	Reservation number	Creation Date		
REL MSPT	RT PRC SETC	Puter Corporation	000XXXXXXX	08/09/2017		
Serial number						
D00 ~~~~~	<					
Configuration DOOR Serial Number DOOXXXXX-XXX DOOR MODEL NAME Plexline Door Production Width (in) 71 Production Height (in) 120 Fabric Type Vinyl Fabric Fabric Color Blue Line Voltage 208V Line Phase Three Phase Power motor mount side Left Hand Motor width in feet 6 height in feet10 List Price Variant PB BLK List Price Variant P_DE5500-6x10 List Price Variant P_PE5500-6x10 List Price Variant P_SEVERE_DUTY List Price Variant VINYL Oty of doors in crate 2						

Figure 8

MOVE THE DOOR MANUALLY

IMPORTANT: The following instructions may also be used in case of a power outage. When the power is restored and the disconnect is not in the off position, the door will close and possibly cause damage, personal injury, or even death.

WARNING

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

DO NOT stand under the door panel when moving the door.

Lower Door with Hand Crank



If the Plexline has a counterweight, the door panel will be upward biased. If the power is removed and the brake is fully released, the door will travel very quickly to the open position and the bottom bar may become pinched or stuck in the head assembly. Releasing the brake partially will allow the door to open smoothly. Failure to restrict motor movement using the brake can result in the panel free-wheeling to an open position, which can result in damage to the bottom bar, fabric door panel, or personnel.

- 1. Turn off power to the door.
- 2. Place the crank handle on the shaft at the bottom of the motor.
 - NOTE: On a door that has a counterweight installed, this will have an upward biased door panel. Hold the hand crank firmly while disengaging the brake to prevent the door from moving.



disengage the brake. Using the crank, hand turn the motor shaft to raise the door to the desired

4. Let go of the manual brake release to fully engage the brake.



Remove the crank handle before applying power to the door. Failure to remove the crank handle could result in personal injury or property damage.

5. Remove crank.

Lower Door with Manual Brake Release



If the Plexline has a counterweight, the door panel will be upward biased. If the power is removed and the brake is fully released, the door will travel very quickly to the open position and the bottom bar may become pinched or stuck in the head assembly. Releasing the brake partially will allow the door to open smoothly. Failure to restrict motor movement using the brake can result in the panel free-wheeling to an open position, which can result in damage to the bottom bar, fabric door panel, or personnel.

- 1. Place the crank handle on the shaft at the bottom of the motor.
 - NOTE: On a door that has a counterweight installed, this will have an upward biased door panel. Hold the hand crank firmly while disengaging the brake to prevent the door from moving.
- 2. Pull down and hold the manual brake release to disengage the brake. Using the crank, by hand turn the motor shaft to lower the door to the desired height. (See Figure 10)



Figure 9

- 3. Pull down and hold the manual brake release to disengage the brake. Using the crank, hand turn the motor shaft to lower the door to a desired height. (See Figure 9)
- 4. Let go of the manual brake release to engage the brake and lock the door in place.
- 5. Remove crank.



Remove the crank handle before applying power to the door. Failure to remove the crank handle could result in personal injury or property damage.

Raise Door with Hand Crank



If the Plexline has a counterweight, the door panel will be upward biased. If the power is removed and the brake is fully released, the door will travel very quickly to the open position and the bottom bar may become pinched or stuck in the head assembly. Releasing the brake partially will allow the door to open smoothly. Failure to restrict motor movement using the brake can result in the panel free-wheeling to an open position, which can result in damage to the bottom bar, fabric door panel, or personnel.

- 1. Turn off power to the door.
- 2. Place the crank handle on the shaft at the bottom of the motor.
 - NOTE: On a door that has a counterweight installed, this will have an upward biased door panel. Hold the hand crank firmly while disengaging the brake to prevent the door from moving.

PLANNED MAINTENANCE-RECOMMENDED SCHEDULE



Figure 10

3. Let go of the manual brake release to engage the brake and lock the door in place.



Remove the crank handle before applying power to the door. Failure to remove the crank handle could result in personal injury or property damage.

4. Remove crank.

Raise Door with Manual Brake Release

AWARNING

If the Plexline has a counterweight, the door panel will be upward biased. If the power is removed and the brake is fully released, the door will travel very quickly to the open position and the bottom bar may become pinched or stuck in the head assembly. Releasing the brake partially will allow the door to open smoothly. Failure to restrict motor movement using the brake can result in the panel free-wheeling to an open position, which can result in damage to the bottom bar, fabric door panel, or personnel.

- 1. Turn off power to the door.
- 2. Gently pull down and hold the manual brake release to disengage the brake.
- 3. Allow the door to openly smoothly to the desired height.
- 4. Let go of the manual brake release to fully engage the brake.

PLANNED MAINTENANCE

RECOMMENDED SCHEDULE

	Daily	Quarterly
Damage Inspection		
Door Operation		
Reversing Edge Inspection		
Photo Eye Inspection		
Mounting Hardware Inspection		
Fabric Inspection		
Door Limit Inspection		
Motor Brake Inspection		
Bottom Bar Inspection		
Kill Switch Inspection		
Lubrication		
Weather Seal Inspection		
Activator/Control Panel Inspection		
Electrical Connection Inspection		
Wall Anchor Inspection		

DAILY INSPECTION

Damage Inspection

Inspect the door to see that components have not been damaged. Example: bent bottom bar, tear in fabric panel, damage to side column(s), etc. (See Figure 11)



Figure 11

Door Operation

Run the door through four or five complete cycles to ensure 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 cause additional damage.

Reversing Edge Inspection



DO NOT stand under the door panel when performing the following inspection. If the reversing edge is not working properly, the bottom bar could strike the person performing the inspection. DO NOT use the door if the reversing edge does not operate properly. If the door does not reverse properly, see "PNEUMATIC REVERSING EDGE SWITCH ADJUSTMENT" on page 13.

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 should immediately reverse and run to the fully open position. Press the control panel down key to close the door after the inspection is complete. If the reversing edge does not work properly, see "PNEUMATIC REVERSING EDGE SWITCH ADJUSTMENT" on page 13 for adjustment procedure.

Photo Eye Inspection

- NOTE: Two sets of photo eyes have been provided with the Plexline door. These photo eyes act as a safety device to prevent the door from closing if an object 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 pressing the up key on the front of the control panel.
- 2. Place an object in front of the photo eye in a position where it will break the photo eye beam.
- 3. Press the down key on the front of the control panel. The door should not operate.

AWARNING

Personnel being used for this inspection should not be in the path of the door panel when this check is made. If the photo eyes are not working properly, the door panel will lower, striking personnel or any objects in its path. DO NOT use the door if the photo eyes do not operate properly.

4. If a photo eye does not operate properly, the photo eye lens 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.

QUARTERLY INSPECTION

Mounting Hardware Inspection

Check all mounting hardware to ensure all nuts, bolts, and set screws are tight. Example: motor mounting hard- ware, anchor or through wall bolts, bearing block, mounting hardware, etc. (See Figure 12 - Figure 16)

MOTOR MOUNTING HARDWARE



Figure 12

- 1. Tighten four bracket-to-gearbox screws to15–20 foot-pounds.
- 2. Tighten the two bracket-to-side column socket head cap screws, if loose.

PLANNED MAINTENANCE-QUARTERLY INSPECTION

ENCODER HARDWARE





Figure 13

SIDE COLUMN HARDWARE



Figure 14

Figure 15

BEARING BLOCK HARDWARE



Figure 16

Fabric Inspection

- 1. Check fabric panels for tears. Replace if required.
- 2. Check all panels to ensure they are tightly enclosed in the wind ribs and pins are in place in wind ribs. (See Figure 17)

PLANNED MAINTENANCE—QUARTERLY INSPECTION



Figure 17

- 3. Check the vision panel for clarity. Clean or replace the panel as required.
- IMPORTANT: Use any good brand of window cleaner and a clean, soft cloth to clean vision panel. DO NOT use an abrasive cleaner or a petroleumbased solvent.
- Check lower panel to ensure that it is fastened to the plastic tab at each end of the bottom bar. Tighten or replace hardware, if required. If fabric is torn and cannot be re-bolted to the plastic tab, replace panel.
- 5. Run the door through two or three cycles. Check that the panels are tracking properly in the side columns.

Door Limit Inspection

CLOSE LIMIT

1. With the door in the closed position, check the yellow vinyl loop on the bottom bar. It should be in the position shown in Figure 18.



Damage to the rubber reversing edge or other bottom bar parts can occur if the door is allowed to seal too tightly against the floor. (See Figure 18)



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

OPEN LIMIT

1. With the door in the open position, check the location of the plastic tabs and yellow vinyl loop on the bottom bar. It should be in the position shown in Figure 19.



Figure 19

PLANNED MAINTENANCE—QUARTERLY INSPECTION

 If the panel does not stop in the proper location, see the Rytec System 4 Drive & Control Installation & Owner's Manual for adjustment procedure.

Motor Brake Inspection

The motor brake assembly is designed to stop the door panel travel at the locations indicated in the limit inspec tion section. If the limits are set properly and the door drifts past the set limits, adjust the brake. (See "MOTOR BRAKE ADJUSTMENT" on page 15 for procedures.)

Bottom Bar Inspection

 Inspect the roll pins securing the bottom bar to the fabric. It is critical that hardware is tight to prevent shifting of the fabric in the bottom bar. (See Figure 20)





- Check hardware used to secure the breakaway assembly to the bottom bar on both sides. Tighten as required.
- 3. Check the reversing edge to see that it is tightly secured in the bottom bar.
- 4. Inspect the vinyl loop of the reversing edge for abrasion or tearing. Replace if required. Make sure screw securing vinyl loop is in place and tight.

Kill Switch Inspection

A kill switch assembly has been installed in the breakaway bottom bar. The purpose of this assembly is to prevent the door from being operated if the breakaway bar becomes separated from either side column. To check the kill switch assembly, proceed as follows:



Take precautions to prevent the door from being opened or closed while performing the following procedure.

- 1. Lower the door to approximately head or chest height, and stop the door.
- NOTE: It should not be possible to restart the door until the door has been reassembled and the control system reset.
- 2. Push the breakaway bottom bar out of one of the side columns. (See Figure 21)

If the kill switch operated properly: Reinstall the bottom bar into the side column and repeat the procedure on the remaining column. (See "BOTTOM BAR ASSEMBLY" on page 2)

If the kill switch did not operate properly: Check the switch for damage. Replace if required. Check all switch wiring. Correct if required. Adjust if required. (See "PNEUMATIC KILL SWITCH ADJUSTMENT" on page 14.) Retest kill switch.



Figure 21

Lubrication

 Flanged Bearing: The fabric roll is supported by a flanged bearing located on the roll shaft end opposite the motor/brake assembly. The flanged bearing is equipped with a grease fitting. Recommended lubrication is a lithium-based grease conforming to NLGI Grade 2 standards. It should be medium viscosity, low torque, with an operating temperature range of -30°F to +200°F. (See Figure 22)



Figure 22

 Motor Gearbox Assembly: The motor gearbox is filled with synthetic oil, which does not need to be changed but should be checked regularly for proper oil level. The level can be checked at the plug located on the lower section of the gearbox.

Recommended oil for refill is as follows:

 Mobil^{®1} SHC 630 Synthetic Gear Oil (Mobilgear 630)

Fill the gearbox by removing the breather at the top of the gearbox and add oil through exposed hole. Add oil until it starts draining from the check plug hole. (See Figure 23)



Figure 23

Weather Seal Inspection

HEADER ASSEMBLY

Inspect the header weather seal for wear or damage. (See Figure 24) Replace if necessary. (See "BRUSH and WEATHER SEAL(S)" on page 24)



Figure 24

SIDE COLUMNS

Inspect the side column weather seal for wear or damage (See Figure 25) Replace if necessary. (See "BRUSH and WEATHER SEAL(S)" on page 24)



Figure 25

Activator/Control Panel Inspection

1. Inspect all warning/safety labels. All warning labels should be intact and clearly readable. Replace labels as needed.

¹ Mobil is a registered trademark of Exxon Mobil Corporation.

ADJUSTMENTS—DOOR OPEN- AND CLOSE-LIMIT POSITIONS

 Operate the door five or six complete cycles with each activator that has been installed on the door. Check the control panel for proper operation. If adjustment or repair is required, see the activator instructions or Rytec System 4 Drive & Control Installation & Owner's Manual.

Typical activators may be floor loops, pull cords, push buttons, motion detectors, radio controls, photo eyes, etc. The opening is controlled by the activator, and closing may be controlled by the activator or a timer in the control panel.

Electrical Connection Inspection



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

- 1. Inspect electrical connections to the power drive assembly and encoder assembly.
- 2. Inspect connections of wires in the side column.
- Inspect control panel wiring. See Rytec System 4 Drive & Control Installation & Owner's Manual for control panel inspection procedure.

ADJUSTMENTS

DOOR OPEN- AND CLOSE-LIMIT POSITIONS

See the Rytec System 4 Drive & Control Installation & Owner's Manual for the proper procedure for adjusting the open and close door limits. The open- and close-limit door positions are detailed below.

Close-Limit Position

The close-limit position should be adjusted so that the door travel allows the vinyl loop on the bottom bar to gently seal against the floor. (See Figure 26)

DO NOT allow the rubber reversing edge, enclosed in the yellow vinyl loop, to come in contact with the floor.



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



Figure 26

Open-Limit Position

The open-limit position should be adjusted so that the door travel allows the bottom bar assembly to stop at the position shown in Figure 27.



Figure 27

ADJUSTMENTS-PNEUMATIC REVERSING EDGE SWITCH ADJUSTMENT

PNEUMATIC REVERSING EDGE SWITCH ADJUSTMENT



Do not stand under the door panel when testing the reversing edge. If the reversing edge switch is not working properly, the panel could strike the person performing the check.

To check the reversing edge switch, run the door through the down cycle. As the door is lowering, tap the bottom of the reversing edge. If the reversing edge switch is operating properly, the door will immediately reverse and run to the fully open position. Reset the control system after the check is completed.

If the door does not reverse, check the air bleed and sensitivity of the reversing edge switch. The switch is located in the bottom bar on the side opposite the door motor.

Reversing Edge Switch Air Bleed Check

 The reversing edge switch is located inside the bottom bar assembly. To inspect or adjust the switch, remove the access cover from the face of the bottom bar assembly. (See Figure 28)



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 29) 3. The air bleed has been set at the factory and should not require adjustment. To check the air bleed, turn the air bleed adjustment screws, located on the front and back of the switch, fully clockwise but do not overtighten. Then turn the screws counterclockwise one full turn. (See Figure 29)



Reversing Edge Switch Sensitivity Adjustment

- 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 wires and resistor from the contact terminals and attach an ohmmeter across the two terminals. (See Figure 30)
- Turn the adjustment screw, located on the face of the switch, clockwise or counterclockwise until continuity is achieved. Then turn the screw ³/₄ turn counterclockwise. The ohmmeter should no longer show continuity. Turning the screw counter clock- wise decreases sensitivity. Turning the screw clockwise increases sensitivity. (See Figure 30)

ADJUSTMENTS-PNEUMATIC KILL SWITCH ADJUSTMENT

Figure 30

- Reattach resistor and wires to the contact terminals. Replace the access cover on the bottom bar.
- NOTE: If the reversing edge is 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.

PNEUMATIC KILL SWITCH ADJUSTMENT

 With the bottom bar separated from the side columns, locate the kill switch assembly bladder at each end of the bottom bar; then inspect each bladder for damage. Replace if required. (See Figure 31)

Figure 31

2. Remove the kill switch assembly access cover from the bottom bar. The kill switch is located on the same side as the door motor. (See Figure 32)

Figure 32

Kill Switch Air Bleed Check

- 1. Make sure the clear PVC hose is tight on 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 33)
- The air bleed has been set at the factory and should not require adjustment. To check the air bleed, turn the air bleed adjustment screws, located on the front and back of the switch, fully clockwise but do not overtighten. Then turn the screws counterclockwise one full turn. (See Figure 33)

3. To adjust the kill switch sensitivity, see "Kill Switch Sensitivity Adjustment" below.

Kill Switch Sensitivity Adjustment

The kill switch assembly is a normally closed contact. The PVC hose is on the upper air input post.

 Remove the wires from the contact terminals and attach an ohmmeter across the two terminals. (See Figure 34)

ADJUSTMENTS-PHOTO EYE ADJUSTMENT

- 2. To adjust the switch, turn the small adjusting screw, located on the face of the switch, clockwise or counterclockwise until continuity is achieved. Then turn the screw two turns clockwise for final adjustment. Turning the screw clockwise decreases sensitivity. Turning the screw counterclockwise increases sensitivity.
- 3. Reconnect the wires onto the switch. Replace the access cover on the bottom bar.
 - NOTE: If the kill switch assembly is too sensitive, it may cause the door to stop during the opening or closing cycle. If this occurs, readjust the kill switch.

PHOTO EYE ADJUSTMENT

There is no sensitivity adjustment for the photo eyes on the Plexline door. If less sensitivity is required, contact the Rytec Technical Support Department at 800-628-1909 before any adjustments are made. (See Figure 35)

Figure 35

 Check to see that the photo eyes in front of the door have been installed for a horizontal beam. (See Figure 36)

Figure 36

- 2. Align the photo eyes on the front side of the door.
 - NOTE: Loosening the cap screws will allow a small amount of adjustment by bending the photo eye mounting bracket slightly to the right or left.

When the photo eyes are aligned, the yellow light on the top of the receiver module will be illuminated. (See Figure 36)

 Adjust the photo eyes on the rear side of the door as required, depending on the type of mounting used by the installer.

MOTOR BRAKE ADJUSTMENT

- 1. Remove the manual brake release lever.
- Loosen hex-head bolts retaining the dust cover to the motor assembly. Remove the cover. (See Figure 37)

REPLACEMENT PROCEDURES-COUNTERWEIGHT STRAP

Figure 37

3. Remove sealing band. (See Figure 38)

Figure 38

 Using a feeler gauge and a nut driver, adjust the retaining nuts until you achieve the proper air gap (0.010–0.024-in.). (See Figure 39 and Figure 40)

Figure 39

All retaining nuts and air gap must be equally set throughout the entire circumference of the brake, or the parts will wear unevenly.

Figure 40

- 5. Reinstall the dust cover and the manual brake release lever.
- 6. Restore power to the door and perform an operations check.

REPLACEMENT PROCEDURES

COUNTERWEIGHT STRAP

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

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure. Personal injury may occur if safety precautions are not taken.

- 1. Open the door and turn off power.
- 2. Properly lock and tag the fused disconnect.
- Gain access to the counterweight strap spool by removing the hood piece(s) and the end cap assembly.

REPLACEMENT PROCEDURES-COUNTERWEIGHT STRAP

4. Remove side column cover. (See Figure 41)

Figure 41

- 5. Lift and support the counterweight.
 - NOTE: The counterweight should be supported high enough in the side column for the strap to clear the idler pulley.
- 6. Loosen capscrews and remove counterweight strap from between clamp bars. (See Figure 42)

Figure 42

7. Unwind the counterweight strap from the spool.

- IMPORTANT: When unwinding the counterweight strap, keep track of how many times the strap is wrapped around the counterweight strap spool.
- 8. Remove the screw and strap from the counterweight spool. (See Figure 43)

- 9. With the strap removed from the spool, inspect the associated parts (spool, idler pulley, hardware, etc.) for any wear and tear. Repair or replace any worn parts prior to installing the new counterweight strap and returning the door to service.
- 10. Install the strap onto the counterweight spool and wrap the counterweight strap around the spool.
 - IMPORTANT: Knowing how many times the counterweight strap is wrapped around the spool is vital to the correct operation of the Plexline® door. It is very CRITICAL when installing the counterweight strap that it is installed with the same number of wraps as it had when it was delivered from the factory.

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 Rytec Technical-Support. The serial number plate is located inside one of the side columns.

11. Make sure that the counterweight strap is routed and tracking correctly on the idler pulley and then route the counterweight strap through the clamp bars as shown in Figure 44

Figure 44

- 12. Remove the slack from the strap and tighten the capscrews. Cut off any excess strap at this time.
- 13. Remove the support from the counterweight.
- 14. Restore power to the door and perform an operations check of the door. Make sure to check the tracking of the counterweight strap.
- 15. Turn off electricity and reinstall the side column cover, hood piece(s), and end cap assembly.
- 16. Restore power and return the door to service.

IDLER PULLEY

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

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure. Personal injury may occur if safety precautions are not taken.

1. Jog the door open. (See "Jog Mode" on page 13 in the System 4 Drive & Control manual.)

Figure 45

- 2. Turn off electricity and properly lock and tag the fused disconnect.
- IMPORTANT: Close off work area. To avoid injury to personnel, there should be no foot traffic allowed in the locality while repairs are being performed.
- 3. Remove hood piece(s) and end cap assembly.
- 4. Remove side column cover.

- 5. Lift and support the counterweight.
- NOTE: The counterweight should be supported high enough in the side column for the strap to clear the idler pulley.
- 6. Remove hardware and idler pulley assembly from the side column. (See Figure 46)

Figure 46

- 7. Install the new idler assembly and hardware.
- NOTE: Look in the parts list for the proper installation of the capscrews, washers, and nuts.
- 8. Remove the support from the counterweight and check that the strap is tracking correctly on the idler pulley.
- 9. Restore power to the door and perform an operations check of the door. Make sure to check the tracking of the counterweight strap.
- 10. Turn off electricity and reinstall the side column cover, hood piece(s), and end cap assembly.
- 11. Restore power and return the door to service.

NON-DRIVE BEARING

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

WARNING

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure. Personal injury may occur if safety precautions are not taken.

- 1. Open door to a desirable working position.
- 2. Turn off electricity and properly lock and tag the fused disconnect.

IMPORTANT: Close off work area. To avoid injury to personnel, there should be no foot traffic allowed in the locality while repairs are being performed.

- 3. Remove hood piece(s) and the end cap assembly at the non-drive bearing.
- 4. Support the door panel assembly at the non-drive end with a forklift or a mechanical lift.
- 5. Remove the nuts and capscrews from the flange bearing assembly. Save hardware for later installation.
- 6. Slide bearing assembly off the shaft of the drum roll. (See Figure 47)

Figure 47

7. Inspect shaft end for any wear and tear.

REPLACEMENT PROCEDURES—MOTOR/GEARBOX

- NOTE: If you have any questions, contact your Rytec representative or call the Rytec Technical Support Department at 800-628-1909.
- 8. Prior to bearing installation, use emery cloth to clean shaft end, wipe clean, and apply a light coat of oil.
- 9. Install new bearing assembly onto shaft.
- Align the bearing assembly with the holes in the mounting bracket and install capscrews and nuts. (See Figure 48)

Figure 48

- 11. Using the grease fitting, lubricate the bearing.
- 12. Remove support equipment.
- 13. Restore power to the door and perform an operations check of the door.
- 14. Turn off electricity and reinstall the hood piece(s) and end cap.
- 15. Restore power and return the door to service.

MOTOR/GEARBOX

IMPORTANT: The drum roll should be removed from the door for the safest method of replacing the motor/ gearbox assembly. If the motor/ gearbox assembly is done in the air, the manufacturer's warranty is null and void.

If the procedure is not followed as described, the potential for damage to the product or property or death to personnel may exist.

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure. Personal injury may occur if safety precautions are not taken.

1. Jog the door open. (See Figure 49)

Figure 49

- 2. Turn off electricity and properly lock and tag the fused disconnect.
- IMPORTANT: Close off area. To avoid injury to personnel, there should be no foot traffic allowed in the locality while repairs are being performed.
- 3. Remove all hood pieces and the end cap assemblies from around the door panel assembly and motor/gearbox. (See Figure 50)

REPLACEMENT PROCEDURES-MOTOR/GEARBOX

- 4. Remove encoder assembly from the gearbox. (See Figure 51)
- NOTE: The tan cable from the encoder to the antenna is hard wired. Extreme care should be taken in handling this assembly. If the cable gets damaged, a new encoder/antenna assembly will be needed to operate the door.

Figure 51

5. Disconnect cables and wires from the motor junction box.

NOTE: Label wires and cables as needed.

6. Remove the left and right side column covers. Lift and block both counterweights. (See Figure 52)

NOTE: The counterweights should be blocked high enough for the strap to clear the idler pulley in the head.

Figure 52

 Loosen the capscrews on both counterweights and remove the strap from between the clamp bars. (See Figure 53)

- 8. Fold the bottom bar assembly into the fabric roll and tie a rope or use a strap around the door panel assembly.
- 9. Pull counterweight straps up from the side columns. Inspect and replace as needed.

REPLACEMENT PROCEDURES-MOTOR/GEARBOX

- 10.Use a forklift or mechanical lift to remove the door panel assembly.
- NOTE: Make sure the door panel is secure to the lift prior to removing it from the side columns.
- 11.Remove the four cap screws that mount the motor/gearbox to the mounting bracket and lower fabric roll assembly onto support bracket. (See Figure 54 & Figure 55)

Figure 54

Figure 55

12. Unbolt the bearing bracket assembly from the side column. There are four 3/8-16 x 1¹1₄-in. hex head capscrews, washers, and nuts. (See Figure 56)

Figure 56

- 13. Remove the drum roll from the top of the side columns and lower to a workable height.
- NOTE: Use a mechanical lift or forklift to remove the door panel assembly.
- Remove the motor/gearbox assembly from the shaft end of the door panel. The use of a rubber mallet may be required to ease removal.
- NOTE: The motor/gearbox assembly is extremely heavy. The use of a mechanical lift or another co-worker would be required for this procedure.
- 15. Remove key from shaft and inspect for wear and tear. Replace as necessary. (See Figure 55)
- 16. Inspect shaft end for any wear and tear.
- NOTE: If you have any questions, contact your Rytec representative or call the Rytec Technical Support Department at 800-628-1909.
- 17. Prior to installation use emery cloth to clean shaft end. Wipe clean and apply a light coat of oil.
- 18. Install key into the shaft.
- 19. Align and install the motor/gearbox assembly onto the shaft.

REPLACEMENT PROCEDURES-MOTOR/GEARBOX

- NOTE: The motor/gearbox assembly is extremely heavy. The use of a mechanical lift or another co-worker would be required for this procedure.
- 20.Using the lift, raise the door panel assembly back into position above the side columns.
- 21. Align and bolt the bearing bracket assembly to the side column using four ³1₈-16 x 1¹1₄-in. hex head cap- screws, washers, and nuts. DO NOT tighten the hex nuts completely at this time. (See Figure 57)

- 22. Align the motor/gearbox with the mounting bracket and install the capscrews previously removed. (See Figure 58)
- 23. Tighten the hex nuts at the bearing bracket assembly. (See Figure 57)

- 24. Route counterweight straps over the idler pulley and lower into the side columns.
 - NOTE: Do not install or route counterweight straps if wear and tear is visible.
- 25. Untie the rope or undo the strap that holds the bottom bar assembly into the fabric roll.
- 26. Route the strap through the clamp bars and tighten the capscrews on both counterweights. (See Figure 53)
- NOTE: Be sure that the counterweight straps are not twisted and that they are running true.

After the strap is routed and tightened, and blocks removed, each counterweight should be 6 to 8 in. above the bottom of the side column.

Figure 59

- 27. Remove blocks from underneath both counterweights.
- 28. Reinstall the left and right side column covers.
- 29. Reconnect cables to the electric motor connection box.
- NOTE: Even though the wires and cables may be labeled, a wire schematic should be used to double-check that the wires were reconnected properly.
- 30. Reinstall the encoder assembly. (See "ENCODER" on page 7 in the Plexline Installation manual.)
- Restore power to the door and reset the door limits. (See the System 4 Drive & Control and Installation and Owner's manual for setting the limits.)

- NOTE: When the motor/gearbox is replaced, the encoder must be removed. Most likely the encoder position will change, and when power is reapplied, the control system will not recognize the original position. The limits will have to be reset. The encoder may or may not have to be reset. Errors on the display could range from F:000 beyond open, F:005 beyond close, F:760 position outside of range, and F:770 outside allowable range. Any of the errors starting with F:7xx would require the encoder to be reset. (See the System 4 Drive & Control and Installation & Owner's Manual to reset the encoder if needed.)
- 32. Perform an operations check of the door.
- 33. Turn off electricity and reinstall the hood piece(s) and end cap.
- 34. Restore power and return door to service.

BRUSH AND WEATHER SEAL(S)

Spreader Assembly

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

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure. Personal injury may occur if safety precautions are not taken.

NOTE: The following replacement procedure is for the two types of weather seals that are used on the Plexline door. The one set of instructions will cover both the brush and weather seals, since they are nearly identical in form and are installed in the same location and manner.

> On doors equipped with a hood, the hood will have to be removed to gain access to the weather seal.

1. Jog the door open. (See Figure 60)

REPLACEMENT PROCEDURES-BRUSH AND WEATHER SEAL(S)

Figure 60

- 2. Turn off electricity and properly lock and tag the fused disconnect.
- 3. Remove hood pieces from door.
- 4. Remove the nuts, washers, and screws from the spreader that retain the clamp bar and seal. (See Figure 61)
 - NOTE: The amount of hardware used on a spreader will vary on the width of the door. The wider a door opening is, the more hardware is used to secure the seal to the spreader.

Figure 61

- 5. Install the new seal in reverse order of removal.
- 6. Install the hood pieces.
- 7. Restore power to the door and return door back to service.

Side Column and Cover

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

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure. Personal injury may occur if safety precautions are not taken.

- 1. Jog the door open. (See Figure 62)
 - NOTE: The door panel may have to be moved slightly or manipulated in different positions to access the seal(s).

Figure 62

- 2. Turn off electricity and properly lock and tag the fused disconnect.
- 3. Remove the section of hood over the seal.
- 4. Remove the screw from the top of the seal.
- 5. Pull seal out from the top.

REPLACEMENT PROCEDURES-WEAR STRIP(S)

- NOTE: The above illustration shows the front side of the door. Left and right are determined when viewing the front side of the door.
- 6. Install the new seal in the same manner as the old one was removed.
- 7. Check the seal to see that it is properly seated.
- 8. Install the screw at the top of the seal.
- 9. Restore power to the door and return door back to service.

WEAR STRIP(S)

Side Column and Cover

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

The disconnect must be in the OFF position and properly locked and tagged before performing the following procedure. Personal injury may occur if safety precautions are not taken.

- 1. Jog the door open. (See Figure 63)
- NOTE: The door panel may have to be moved slightly or manipulated in different positions to access the wear strip(s).

Figure 63

- 2. Turn off electricity and properly lock and tag the fused disconnect.
- 3. Remove the section of hood over the wear strip.
- 4. Remove the screw from the top of the wear strip.
- 5. Pull wear strip out from the top.
 - NOTE: On the side column cover, you have the option to remove the cover from the column for ease and convenience of replacing the wear strip.
- 6. Install the new wear strip in the same manner as the old one was removed.
- 7. Check the wear strip to see that it is properly seated. Adjust the strip as required.
- 8. Install the screw at the top of the wear strip.
- 9. Restore power to the door and return door back to service.

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.
- To place an order, contact your local Rytec representative or the Rytec Technical Support Department at 1-800-628-1909 or 262-677-2058 (fax). Rytec Corporation also has an on-line store at <u>WWW.Rytecparts.com</u> access to this 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.
- 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 must match. (See Figure 64)

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 Customer Support Department to obtain return authorization and an RMA form.

RYTEC TECHNCIAL KNOWLEDGE CENTER

At <u>WWW.Rytecdoors.com</u> 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". The knowledge center contains on-line manuals, service bulletins and video presentations of various Rytec models and repair information.

PARTS LIST—SIDE COLUMN

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

SIDE COLUMN

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Set Screw, M6-1.0 x 10 Knurl Point, SS Part #S5550160-0Z04 (Use w/ Brush Seal)

Brushseal, 1" Black Part #R1200141-0

6

Set Screw, M6-1.0 x 10 Knurl Point, SS Part #S5550160-0Z04

(Use w/ Brush Seal)

Washer, Thrust Part #R0003068

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

Retaining Ring, E - Style, .75 DIA Part #R5550066-0Z04

SIDE COLUMN W/BRAKE & COUNTERWEIGHT

ALWAYS INCLUDE SERIAL NUMBER OF DOOR WHEN PLACING ORDER

SIDE COLUMN – COUNTERWEIGHT

ALWAYS INCLUDE SERIAL NUMBER OF DOOR WHEN PLACING ORDER

PARTS LIST—REAR SPREADER — BRUSH SEAL

REAR SPREADER — BRUSH SEAL

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

REAR SPREADER — ANTENNA HARDWARE & ENCODER

ALWAYS INCLUDE SERIAL NUMBER OF DOOR WHEN PLACING ORDER

PARTS LIST—MOTOR ASSEMBLY

MOTOR 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

DRUM ASSEMBLY

BOTTOM BAR ASSEMBLY

ALWAYS INCLUDE SERIAL NUMBER OF DOOR WHEN PLACING ORDER

BOTTOM BAR ASSEMBLY

ALWAYS INCLUDE SERIAL NUMBER OF DOOR WHEN PLACING ORDER

PARTS LIST—HOOD ASSEMBLY

HOOD ASSEMBLY

ALWAYS INCLUDE SERIAL NUMBER OF DOOR WHEN PLACING ORDER

PARTS LIST—PHOTO EYES

PHOTO EYES

ALWAYS INCLUDE SERIAL NUMBER OF DOOR WHEN PLACING ORDER

COMMON SPARE PARTS

R0211397 Air Pressure Switch R00111193 Battery Wireless R0012242 Falcon Motion Detector R0012867 IS40 Motion/Presence sensor R0012145 BEA Universal Remote R0012210 Pull Cord/Wall Switch R00121002 Pushbutton, Black Mushroom R1160153-0 Photo Eye, Telco SMT3000C SG T3, Transmitter R1160145-0 Photo Eye Telco SMR3215 SG T3, Receiver R1160059-0A00 Photo Eye, Cable 10 Meters Long R1160059-0B00 Photo Eye, Cable 15 Meters Long R00142058 Encoder, Wireless 36" Antenna, Extended Range, has 250 K Bit on Decal of encoder. Works with potted mobile unit #R1210463-0. R1210463 Potted Mobile Unit Extended Range Wireless, Wireless Encoder will have 250K Bit on Decal. Works with wireless Encoder part #R00142058. R1200127-0 Breakaway Tab R1060119-0 Gasket, Wireless Cover R00141122 Resistor 8.2K R0704038 Hand Crank, to manually operate the motor. R1160043-0 Counterweight Strap, requires length or door serial # for order. R0007744 White Vinyl Seal requires length or door serial # for order. R1200141-0 Black Brush 1" requires length or door serial # for order.