WARNING

Read and understand all operation, warning and safety instructions in this manual before operating or servicing the door.

When instructed to do so, follow lockout/tagout procedure before servicing the door.
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- **Warranty**  
  - SPIRAL® LH® LIMITED WARRANTY
The information contained in this manual will allow you to operate and maintain your Rytec Spiral® LH® 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.

A set of wiring schematics is provided with each individual door specifically covering the control panel and electrical components of that door. The schematics for a door are shipped inside the box that holds the System 4® controller.

How to find the serial number

!IMPORTANT!
You will need to know the serial number of your door any time you call Rytec Technical Support.

There are labels displaying the serial number in several locations on the door.

The easiest labels to locate are at roughly eye level on the left side side column of the door and at the bottom of the display on the controller.
Rytec naming conventions

The illustration below shows the terms used by Rytec technical support to refer to the major components of your door. Using these terms helps technical support to provide assistance as quickly as possible.
Safety information and the meaning of signal words

Summary

Technical content produced by Rytec includes safety information which must be read, understood and obeyed to reduce the risk of death, personal injury, or equipment damage. This information is boxed to set it apart from other text. The boxed text identifies the nature of the hazard and appropriate steps to avoid it.

The safety alert symbol identifies a situation that can result in personal injury. The accompanying signal word indicates the likelihood and potential severity of the injury. The meaning of the signal words are as follows:

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Warning</strong> indicates a hazardous situation which, if not avoided, could result in death or serious injury.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Caution</strong> indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NOTICE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Notice</strong> is used to address practices not related to physical injury but which, if not followed, can result in damage to the door or other property.</td>
</tr>
</tbody>
</table>

Operational and maintenance safety

Operational precautions

Observe these precautions while using the door.

- Make sure that all individuals who use the door have been informed about the correct use of the door and all activating devices, and that they understand all safety devices for the door.
- Make sure that only individuals who are trained, qualified and authorized can access the control system, system software and control parameters.
- Do not run through the door opening or attempt to cross the threshold before you are able to do so while walking fully upright.
- Do not drive a vehicle through the door until the door is completely open and has stopped moving.
- Do not climb on or hang on the door.
- Do not touch any part of the door or door frame while the door is opening or closing.
- Only operate the door at the approved supply voltage.
- If the door is to be kept open for a sustained period of time, use the control system to put the door in jog mode, and jog to the desired height. For servicing, set the door to the open position, then set the power disconnect to the OFF position and perform a lockout/tagout. Make sure all personnel are informed that the door is not operational during this time.
- Safety devices must not be modified or put out of services. Do not use the door if there is any indication that a safety device is not operating correctly.
Maintenance precautions

Observe these precautions while performing maintenance on the door.

- Maintenance of the door and the control system is to be done by trained, qualified and authorized individuals only.
- Make sure all routine maintenance is performed as scheduled in the instructions for the door.
- Make sure the power disconnect is set to the OFF position and a correct lockout/tagout procedure has been performed before servicing any component of the door that is powered by the control system.
- The control system includes components that remain charged after the power has been disconnected. Do not open the control box until at least 5 (five) minutes have elapsed after power is disconnected.
- Do not pass through or stand in the door panel pathway while the door is being serviced.
- Make sure you have and use all required Personal Protective Equipment.
- Make sure that you are aware of the location of all power lines, piping and HVAC systems within the work site.
- Make sure all components and hardware used to service the door are approved by the manufacturer.

Object Detection and Alerting Systems

The standard Spiral LH installation includes both required and optional safety features, which are located in and around the side columns of the door and, as an option, in the bottom bar.

The SmartSurround™ and Advanced3 light curtains provide three detection planes across the door opening that reverse the closing door, or hold the door open, when an obstruction is detected in the door opening. The light curtains extend from the floor to a height of five to seven feet, depending on the configuration of the door.

The SmartSurround™ light curtains also act as intelligent alerts, with a bright LED display that indicates the status of the door:

- **While the door opens or closes:** a repeating cascade of lights moving up or down until the door stops.
- **Before the door closes:** slow blinking lights to indicate a close at normal speed, fast blinking lights to indicate a close at “creep” speed, that match the timing of the Delay to Close timer.
- **If an obstruction is detected:** rapidly blinking lights until the obstruction is cleared.
- **If, while the door is opening or closing, it is stopped before it reaches the fully open or fully closed position:** a solid red display until the door is restarted.

The reversing edge is located at the bottom of the bottom bar, and reverses the door if it makes contact with an obstruction while the door is closing. This object detection system is optional on doors with the SmartSurround™ feature.

Your installation may also include other optional safety devices.
How to open and close the door using the System 4 controller

The System 4 controller should be installed within sight of the Spiral LH door.

- **Press the UP arrow** to manually open the door.
- **Press the DOWN arrow** to manually close the door. Under normal operating conditions, the door should always close automatically.

Under normal operating conditions, it should not be necessary to use the System 4 controller. Rytec offers a wide range of automatic and manual activators designed to fit the specific requirements of the installation. Call Rytec Technical support at **800-628-1909** if you have questions about the activators for your door.

How to hold the door open - normal use

**NOTICE**

Do not use a safety feature or activator, such as a light curtain or motion detector, to hold the door open.

1. **Press and hold the DOWN arrow and RESET buttons** until the display changes to show jog mode.

2. **Press the UP arrow** to set the door to the desired height.
How to hold the door open to service

1. Press the UP arrow to open the door.

2. Turn the disconnect switch to the OFF position. The switch may be located on the System 4 controller or on an external disconnect.

3. Perform a lockout/tagout.

   **CAUTION**
   
   Make sure all users of the door are informed when the door is out of service, and when it is put back into service.

How to manually open and close the door

1. Pull down the brake release lever until the lever is in the fully released position.

   **IMPORTANT**
   
   There will be some resistance when you push the lever down, but it should not require excessive force to reach the fully released position.

   If you feel too much resistance, you will need to loosen the tension on the brake cable inside the side column.

2. You can now raise and lower the door panel by hand.

   **IMPORTANT**
   
   - Place a vise grips or c-clamp in both vertical tracks under the bottom bar rollers to hold the door in place.
   - The springs in the side columns will prevent the door panel from reaching the fully closed position.

3. Release vise grips or clamps and push up the brake release lever when you are done to re-engage the brake and allow the door panel to raise and lower automatically.
## Recommended inspection and maintenance schedule

<table>
<thead>
<tr>
<th>Action</th>
<th>Daily</th>
<th>Quarterly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect visually for damage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test door operation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test reversing edge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test photo eyes or light curtains</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean vision panels</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visually inspect controller, cabling and conduit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inspect hardware; tighten where necessary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visually inspect side columns and anchoring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visually inspect all components in head assembly</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inspect the primary drive belt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inspect the secondary drive belt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visually inspect all spreaders and seals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inspect seals on both sides of door track</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inspect the springs, spring strap and brackets in both side columns</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visually inspect the wireless antenna and wire</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visually inspect the door panel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inspect the full length of the reversing edge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check open and close limit; adjust if necessary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test brake release and inspect brake release cable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### NOTICE

**This door does not require lubrication.**

- The gearbox used with this door is a sealed unit. **DO NOT** attempt to lubricate.
- **DO NOT** lubricate any parts, components, or assemblies of this door. This includes the door panel rollers, guides and track. Lubricants will attract dust and dirt, which can cause the door panel to bind.
Daily maintenance
These steps should be followed every day.

1 Activate the door using each activating system. Run the door through at least three cycles for each system.
   - Make sure the door panel rises to the fully open position, remains in place for the standard time, and then closes to the fully closed position.
   - Make sure the reversing edge is level when the door is fully closed.
   - Repeat for each activating device.

2 While the door cycles, look and listen for:
   - Unusual noises such as grinding, whining or excessive motor noise
   - Changes in door speed from one cycle to the next. NOTE: The door motion should accelerate, then decelerate, during a normal run up or down.
   - Excess movement by the motor, drive or door panels.
   - Unexpected delay in activation or unusually long time period before automatically closing.

3 Make sure the SmartSurround™ operates correctly as the door opens and closes:
   - An upward cascade of red lights while the door opens.
   - A sequence of blinking yellow lights matching the delay to close timer before the door starts to close.
   - A downward cascade of red lights while the door closes.

4 Inspect the side columns and head assembly for signs of damage or signs of excessive wear.

5 Inspect the door panels, reversing edge and rollers for damage or signs of excessive wear.

6 Test the SmartSurround™ system:
   - Make sure the light curtains flash rapidly whenever either of the planes are broken.
   - If one plane is broken but the other is not, the light curtains should reverse/hold the door, then the door should count down and descend at creep speed.
   - If all planes are broken, the light curtains should reverse/hold the door, then the door should count down and descend at normal speed.
How to inspect the safety labels

There are three safety labels on this door: a DASMA label on the side column (depending on the configuration of the door, this can be the left side column or the right side column), a shock warning on the front of the System 4 control box, and a shock warning with instructions for manually moving the door on the bottom of the motor, next to the brake release lever.

Make sure all three labels have no rips or tears, that they can be clearly seen, and that all text is readable.

Call Rytec technical support at 800-628-1909 if any of the labels need to be replaced.
How to clean the door

**NOTICE**

!IMPORTANT! Do not use bleach, industrial grade cleaners, abrasive cleaners or petroleum-based solvents on Rytec doors.

**NOTICE**

Rytec doors are self-lubricating. Do not lubricate the drive track or door panel. Grease and lubricating oil can attract dirt and grime, which may prevent the door from operating correctly.

**NOTICE**

Clean the light curtains with a damp cloth soaked in water only. Do not get cleaners of any kind on the light curtain lenses. Rain-X® 620036 Plastic Water Repellent is approved for light curtains.

General cleaning of the door

Clean side columns with a mix of household cleaner and water. Isopropyl alcohol can be used on hard-to-clean areas.

Cleaning solid door panels

Clean solid door panels with a mix of household cleaner and water. Isopropyl alcohol can be used on hard-to-clean areas.

Cleaning full vision panels

Full vision panels should be inspected on a daily basis for dirt, grease, scratches and abrasions. Cleaning must be done when anything else that diminishes panel clarity is observed.

**WARNING**

The fused disconnect must be in the OFF position and a lockout/tagout performed before performing the following procedure.

General cleaning

1. Rinse with flowing water.
2. Clean with warm water and small amount of mild non-abrasive soap (dish soap).
3. Lightly rinse vision panels using a water spray.
4. Remove excess water using a clean and dry microfiber of lint free cloth.
5. Use a small squeegee to completely dry all panels.
6. Wipe any additional moisture with dry microfiber or lint free cloth.

Heavy cleaning and fine scratch removal

1. Remove all surface dirt and dust with warm water spray.
2. Mix a mild non-abrasive soap (dish soap) into a bucket of warm water.
3. Gently wash using a microfiber or lint free cloth keeping the cloth sudsy at all times.
4. Lightly rinse vision panels using a water spray.
5. Remove excess water using a clean and dry microfiber or lint free cloth.
6. Use a small squeegee to completely dry all vision panels.
7. Wipe any additional moisture with a dry microfiber or lint free cloth.
8. Over the counter products can be used to polish the vision panels. Products such as NOVUS Polish #2 ([www.novuspolish.com](http://www.novuspolish.com)) are designed specifically for polycarbonate windows and will help maintain clarity and shine of the vision panels. Follow the instructions on the product for the proper application.

**NOTE:** The product must be non-abrasive and designed specifically for polycarbonate windows. Avoid the use of abrasive cleaners, squeegees and/or other cleaning implements that may mar or gouge the coating.
For full vision panels with Lexan™ windows, use these cleaning agents

_Aqueous solution one of these detergents:_
- Top Job
- Mr. Clean
- Joy
- Formula 409
- Fantastik

_Organic solvents:_
- Butyl Cellosolve
- Hexcel, F.O. 554
- Kerosene
- Neleco-Placer
- Naphtha (VM&P) Grade
- Turco 5042

**NOTE:** All residual organic solvents should be removed with a secondary rinse.

_Alcohols:_
- Methanol
- Isopropyl

All residual organic solvents should be removed with a secondary rinse.

_Graffiti removal_
- Butyl Cellosolve (for removal of paints, marking pen inks, lipstick, etc.). The use of masking tape, adhesive tape or lint removal tools works well for lifting off old weathered paints.
- To remove labels, stickers, etc., the use of kerosene or VM&P naphtha are generally effective.
- When the solvent will not penetrate sticker material, apply heat (hair dryer) to soften the adhesive and promote removal.

**Cleaning and scratch removal using NOVUS #1, #2, and #3**

_NOVUS #1 Plastic Clean and Shine_

1. Remove surface dust with soft cloth.
2. Shake well. Apply a light mist of polish.
3. Spread evenly over the entire surface. If the surface is extremely dirty, apply NOVUS #1 liberally and wipe using long, sweeping strokes. Do not use pressure at this time or large dirt particles may scratch the Lexan™.
4. Buff with a clean, soft, lint-free cloth.
5. Re-apply NOVUS #1 Polish using short, circular strokes with a clean portion of the cloth.
6. When the surface is thoroughly clean and uniformly covered, buff to a slippery glaze with a clean portion of the cloth. Surfaces buffed to a high glaze are more resistant to dust and future scratching.

**NOTE:** Reapply NOVUS #1 regularly to maintain the antistatic, smudge and scratch resistant properties.
NOVUS #2 Fine Scratch Remover

Observe condition of the surface to be treated. The deeper the scratches, the greater the pressure required to remove them. If the surface is dirty, clean with NOVUS #1 first.

1. Shake well. Test in an inconspicuous area.
2. Remove surface dust with clean, soft cloth.
3. Apply polish in circular motion until dry. Apply NOVUS #2 liberally. Using a clean, soft cloth, polish with a firm back-and-forth motion at right angles to the scratches. Keep the cloth saturated with polish at all times.
4. Buff with a clean cloth.
5. When the worst scratches have been polished out, reapply NOVUS #2 uniformly in a circular motion to the entire surface using short, circular strokes and light pressure. Allow to dry to a light haze.
6. Using a clean portion of the cloth, buff the surface to a slippery glaze using firm, short strokes. This procedure is imperative in achieving the best results.

NOTE: For heavy scratches, multiple applications of NOVUS #2 or application of NOVUS #3 may be required. Follow with NOVUS #1 for best results.

NOVUS #3 Heavy Scratch Remover

1. Shake well. Test in an inconspicuous area.
2. Remove surface dust with a clean, soft cloth.
3. Using a clean, soft cloth, apply NOVUS #3 with firm back and forth strokes at right angle to visible scratches. Apply NOVUS #3 liberally. Using a clean, soft cloth, polish with a firm back-and-forth motion at right angles to the scratches. Keep the cloth saturated with polish at all times.
4. Continue polishing until only the fine scratches remain.
5. !IMPORTANT! Using a cloth, remove all of the remaining polish.
How to order parts

1. **IMPORTANT!** Make sure you have the serial number of your door before you start.

   Check next to the drive track inside both side columns, and on the control box, for labels showing the serial number.

   **IMPORTANT!** Make sure all numbers match. Tell the person you speak with if they do not.

2. **Look** at the head assembly of your door to see if the drive side is left hand (LH) or right hand (RH).

3. **Use** the parts lists on the following pages to find the part numbers and descriptions for the parts you need.

4. **Call** your local Rytec representative or Rytec technical support at **800-628-1909**. Enter #1 for technical support, #2 for the parts department.

**NOTE:** Rytec Corporation also has an online parts store at [www.rytecdoors.com](http://www.rytecdoors.com).

- You must have a user account to access the site. Contact the Rytec parts department at **800-628-1909 Ext. 2** to request an account.
- The site stocks standard parts such as bearings, spools and encoders, as well as straps at precut lengths. Parts listed as "configured" in this manual are not available on the site.
- Some parts are available for next-day shipping.
How to return unwanted parts

1 For returns covered by warranty, call Rytec technical support at 800-628-1909 Ext. 1 for authorization.

For returns NOT covered by warranty (physical returns), call the Rytec parts department at 800-628-1909 Ext. 2 for authorization. Requests for quotes, or part orders, should also be e-mailed to PARTS@RYTECDOORS.COM.

- Your call will be redirected if necessary to put you in touch with the correct department.
- There may be a restock fee for the returned part.
- Electrical parts which have been energized, such as the System 4® controller, the brake assembly, the mobile unit, the light curtains or third party activators, cannot be returned.
- Also, there are restrictions on returns for configured parts that were built to match the specifications of your door.

Warranty return

1 Rytec will create a Return Merchandise Authorization (RMA) and assign you an incident number.

2 You will receive replacement parts, a prepaid return label, and the RMA paperwork.

   NOTE: Rytec may determine that it is not necessary to return the warranted parts in order to receive the replacement parts.

3 Use the box and prepaid label to return the warranted parts to Rytec within 30 days of receiving the replacements.

   IMPORTANT! You must include the RMA paperwork with the returned parts.

Physical return

1 Rytec will assign you an incident number.

2 Box and return the parts.

   IMPORTANT! You must include the incident number with the returned parts.

   Unless you are told otherwise by Rytec, shipping costs for a physical return are your responsibility. Call the Rytec parts department at 800-628-1909 Ext. 2 if you have any questions.

3 When Rytec receives the parts, we will inspect them. When we have determined the parts are in good working order, we will issue a refund to your account, or send a check by mail within 30 days.

Why you may be sent substitute parts

Many Rytec doors are custom engineered to meet the unique needs of the installation site, so the parts used for your door may be different from those shown in this manual.

If a part has been improved or updated since your installation, the new part will be substituted for the part ordered. The new part may have a revised part number.

Rytec Technical Knowledge Center

The Rytec Technical Knowledge Center, reached via the Customer Support page at www.rytecdoors.com, holds manuals, service bulletins, and video presentations for all Rytec model doors.
Side Column Assemblies  

**all doors**

<table>
<thead>
<tr>
<th>PN/Description</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSY,SC,2-PC*</td>
<td>5550289-0204</td>
<td>BLIND RIVET FLUSH HEAD 0.19OD 0.33GP SS</td>
<td>16</td>
</tr>
<tr>
<td>ASSY,COVER*</td>
<td>01900820</td>
<td>BSCSF,M8-1.25 X 16,T40,ZN</td>
<td>v</td>
</tr>
<tr>
<td>ASSY,COVER,2-PC*</td>
<td>5550289-0204</td>
<td>BLIND RIVET FLUSH HEAD 0.19OD 0.33GP SS</td>
<td>16</td>
</tr>
</tbody>
</table>

* = multiple variations of part number: use wildcard to search (Rytec parts representative)

**NOTE:** drive side may be LH or RH.

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**SC SEAL**

Seal for side column cover; field trim to size.

Part number based on door size:
- requires door serial number to order

---

**Side column variations based on:**
- drive side, prewire option, SmartSurround™ (LGCA) option, BTA4 option

**Side column cover variations based on:**
- SmartSurround™ (LGCA) option, BTA4 option

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**NOTE:** part numbers vary based on door model
- STN-L  Transparent door slats, small
- SSN-L  Solid door slats, small
- STN-S  Transparent door slats, large
- SSN-S  Solid door slats, large

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**Hardware – Order Separately**

- 1210738-0  DOME PLUG, 0.50 DIA HOLE, 0.25 MAX WALL, NYLON, BLK

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**SC SEAL**

Seal for side column; field notch for SmartSurround® cable.

Configured part: requires door serial number to order

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**NOTE:** drive side may be LH or RH.

- = multiple variations of part number: use wildcard to search (Rytec parts representative)

---

**v** = varies based on height of door
Side Column Assemblies - Baseplate Area

**PN/Description**

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASEPLATE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5550301-0Z01</td>
<td>HF5MS,M8-1.25X8 CL10.9 ZN</td>
<td>1</td>
</tr>
<tr>
<td>5550296-0Z01</td>
<td>RIV-NUT, M8-1.25, AHS4T-8125-7.9</td>
<td>3</td>
</tr>
<tr>
<td>01300530</td>
<td>SCREW, M10 X 30, DIN 963-4.8</td>
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<tr>
<td>01270060</td>
<td>NUT, M10 HEX, DIN 934-8 ZN</td>
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<tr>
<td>01900820</td>
<td>BSCSF,M8-1.25 X 20,T40,ZN</td>
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<td>1210866</td>
<td>HF5MS, M8-1.25X12 CL10.9 ZN</td>
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<td>1210870-0A</td>
<td>SPACER,ROUND</td>
<td></td>
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<td>1210868</td>
<td>BSCSF,M8-1.25 X 16,T40,ZN</td>
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<td>1210871/72</td>
<td>HF5MS, M8-1.25X12 CL10.9 ZN</td>
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<td>1210874-0A</td>
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<tr>
<td>1210866-0A03</td>
<td>GUARD</td>
<td></td>
</tr>
<tr>
<td>1210871-0A01</td>
<td>GUARD,LOWER,-L SIZE</td>
<td></td>
</tr>
<tr>
<td>1210872-0A01</td>
<td>GUARD,LOWER,-S SIZE</td>
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<tr>
<td>1071412-1Z01</td>
<td>ASSEMBLY, BASE PLATE,-L SIZE,LH</td>
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<tr>
<td>1072210-1Z01</td>
<td>ASSY,BASEPLATE,-S SIZE,LH</td>
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<tr>
<td>1071412-2Z01</td>
<td>ASSEMBLY, BASE PLATE,-L SIZE,RH</td>
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<tr>
<td>1072210-2Z01</td>
<td>ASSY,BASEPLATE,-S SIZE,RH</td>
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</tr>
</tbody>
</table>

**NOTE:** part numbers vary based on door model

- **STN-L** Transparent door slats, small
- **SSS-L** Solid door slats, small
- **STN-S** Transparent door slats, large
- **SSN-S** Solid door slats, large

**Hardware listed below**

- **1210874-0A03 GUARD**
  - Includes CAN bus labels
  - Configured part: requires door serial number to order

- **Hardware listed below**
  - **1210871-0A01 GUARD,LOWER,-L SIZE**
  - **1210872-0A01 GUARD,LOWER,-S SIZE**

**Hardware – Order Separately**

- **BASEPLATE**
  - 5550301-0Z01
  - 5550296-0Z01
  - 01300530
  - 01270060
  - 01900820
  - 1210866
  - 1210870-0A
  - 1210868
  - 1210871/72

- **GUARD**
  - 5550301-0Z01
  - 5550296-0Z01
  - 01300530
  - 01270060
  - 01900820
  - 1210866
  - 1210870-0A
  - 1210868
  - 1210871/72

- **ASSY, ACCESS COVER**
  - Includes CAN bus labels
  - Configured part: requires door serial number to order

**Diagram:**

- **Assembly, Base Plate,-L Size, LH**
- **Assembly, Base Plate,-S Size, LH**
- **Assembly, Base Plate,-L Size, RH**
- **Assembly, Base Plate,-S Size, RH**

- **Assembly, Access Cover**
  - Includes CAN bus labels
  - Configured part: requires door serial number to order
Spreader Assembly *all doors*

**Hardware – Order Separately**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1071631-0Z01</td>
<td>01900816</td>
<td>BSCSF, M8-1.25 X 16, T40, ZN</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>5550295-0Z01</td>
<td>RIV-NUT, M8-1.25, AHS4T-8125-3.8</td>
<td>12</td>
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<tr>
<td>1071632-1Z01</td>
<td>01900816</td>
<td>BSCSF, M8-1.25 X 16, T40, ZN</td>
<td>3</td>
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<tr>
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<td>5550295-0Z01</td>
<td>RIV-NUT, M8-1.25, AHS4T-8125-3.8</td>
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<tr>
<td>1071632-2Z01</td>
<td>01900816</td>
<td>BSCSF, M8-1.25 X 16, T40, ZN</td>
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<td>5550295-0Z01</td>
<td>RIV-NUT, M8-1.25, AHS4T-8125-3.8</td>
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<td></td>
<td>01900816</td>
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<tr>
<td></td>
<td>5550295-0Z01</td>
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<td></td>
</tr>
</tbody>
</table>

*1072419-0X01* SPREADER ASSY, REAR SEAL
*Includes all brackets*

*Configured part: requires door serial number to order*
Consoles -L size doors

All consoles

1071813-0201
COVER, CONSOLE, NON-DRIVE, SSN-L (not shown)
Hardware listed below

1072444-0A01
COVER, INSERT, SSN-L
Hardware listed below

1072434-1X
ASSY, CONSOLE, SSN-L, LH
Includes all covers and brackets; drive side shown

1072434-2X
ASSY, CONSOLE, SSN-L, RH
Includes all covers and brackets; non-drive side shown

LH consoles only

236318Z4
BELT GUARD, SSN, LH
Hardware listed below

1071729-1201
CONSOLE, OUTER, INSERT, LH, DRIVE SIDE, SSN-L
Hardware listed below

236850-1Z4
CONSOLE, INNER, SPIRAL, LH, LH DRV
Hardware listed below

236850-1RZ1
CONSOLE, INNER, SPIRAL, LH, RH DRV
Hardware listed below

236312_2
TRACK, INNER, R=163, RH
Hardware listed below

236311_2
TRACK, OUTER, R=204, RH
Hardware listed below

1072434-1X
ASSY, CONSOLE, SSN-L, LH
Includes all covers and brackets; non-drive side shown

1072434-2X
ASSY, CONSOLE, SSN-L, RH
Includes all covers and brackets; drive side shown

All parts are configured parts:
require door serial number to order

RH consoles only

236318RZ4
BELT GUARD, SSN, RH
Hardware listed below

1071729-2201
CONSOLE, OUTER, INSERT, RH, DRIVE SIDE, SSN-L
Hardware listed below

236850-2RZ1
CONSOLE, INNER, SPIRAL, RH, RH DRV
Hardware listed below

236850-2RZ4
CONSOLE, INNER, SPIRAL, RH, LH DRV
Hardware listed below

1072434-2X
ASSY, CONSOLE, SSN-L, RH
Includes all covers and brackets; drive side shown

Hardware - Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>Consoles</td>
<td>01260080</td>
<td>HHCS, M10 X 25, DIN 933 - 8.8 ZN</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>01800080</td>
<td>WASHER, 10.5MM, DIN 9021A ZN</td>
<td>2</td>
</tr>
<tr>
<td>1071729-X</td>
<td>5550295-0Z01</td>
<td>RIV-NUT, M8-1.25, AHS4T-8125-3.8</td>
<td>12</td>
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<tr>
<td>1071808-0Z01</td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 16, T40, ZN</td>
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<tr>
<td>1071809-0Z01</td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 16, T40, ZN</td>
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<td>01901508</td>
<td>NUT, MB FLANGED</td>
<td>2</td>
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<tr>
<td>1071813-0Z01</td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 16, T40, ZN</td>
<td>3</td>
</tr>
<tr>
<td>1072444-0A01</td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 16, T40, ZN</td>
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<tr>
<td>236311_X, 236312_X</td>
<td>01260110</td>
<td>HHCS, M6-1.0X14, DIN 933 - 8.8 ZN</td>
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<tr>
<td>236318X</td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 16, T40, ZN</td>
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<tr>
<td>236850-XZ4</td>
<td>01260274</td>
<td>HHCS, MBX20, DIN 933 - 8.8 ZN</td>
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<tr>
<td></td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 16, T40, ZN</td>
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<td></td>
<td>5550295-0Z01</td>
<td>RIV-NUT, M8-1.25, AHS4T-8125-3.8</td>
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</tbody>
</table>
Consoles -S size doors

All consoles

1071808-0Z01 COVER,CONSOLE,NON-DRIVE SIDE,SSN (not shown) Hardware listed below

1071809-0Z01 COVER,CONSOLE,NON-DRIVE SIDE,INNER,SSN Hardware listed below

1072435-1X ASSY,CONSOLE,SSN-S,LH Includes all covers and brackets; drive side shown

Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>01260274</td>
<td>THHCS,M8X20, DIN 933 - 8.8 ZN</td>
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<td>01900820</td>
<td>HHCS, M10 X 25, DIN 933,8-8 ZN</td>
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</tr>
<tr>
<td>01800080</td>
<td>WASHER,10.5MM,DIN 9021A ZN</td>
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<td></td>
</tr>
<tr>
<td>01900820</td>
<td>BSCSF,M8-1.25 X 16,T40,ZN</td>
<td>2</td>
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<tr>
<td>01901508</td>
<td>NUT, M8 FLANGED</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>01900820</td>
<td>BSCSF,M8-1.25 X 16,T40,ZN</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>01900820</td>
<td>BSCSF,M8-1.25 X 16,T40,ZN</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>5550295-0Z01</td>
<td>RIV-NUT, M8-1.25, AHS4T-8125-3.8</td>
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<td></td>
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<tr>
<td>236312_1</td>
<td>TRACK,INNER,R=163,LH</td>
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<tr>
<td>236311_1</td>
<td>TRACK,OUTER,R=204,LH</td>
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<tr>
<td>236312_2</td>
<td>TRACK,INNER,R=163,RH</td>
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<tr>
<td>236311_2</td>
<td>TRACK,OUTER,R=204,RH</td>
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</table>

LH consoles only

23631824 BELT GUARD,SSN,LH Hardware listed below

236850-1Z4 CONSOLE,INNER,SPRAL,LH,HH DRV Hardware listed below

236850-1Z2 CONSOLE,INNER,SPRAL,LH,RH DRV Hardware listed below

RH consoles only

236318Z4 BELT GUARD,SSN,RH Hardware listed below

236850-1Z4 CONSOLE,INNER,SPRAL,RH,HH DRV Hardware listed below

236850-1RZ1 CONSOLE,INNER,SPRAL,RH,RH DRIVE Hardware listed below

All parts are configured parts: require door serial number to order

01260320 01800080 01900820 5550295-0Z01

Spiral LH Owner’s Manual
## Console Brackets - L size doors

### Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0013013</td>
<td>NUT, 5/16-18 UNC PROJECTION WELD</td>
</tr>
<tr>
<td>24380324</td>
<td>HHCS, M10 X 25, DIN 933.8-8 ZN</td>
</tr>
<tr>
<td>1070402-024</td>
<td>BSCSF, M6X12, 1X20, ZN, PRECOTE 80-8</td>
</tr>
<tr>
<td>1070963-X204</td>
<td>BSCSF, M8-1.25 X 16, T40, ZN</td>
</tr>
<tr>
<td>1071718-0201</td>
<td>HHCS, M10 X 25, DIN 933.8-8 ZN</td>
</tr>
<tr>
<td>1071724-X201</td>
<td>HHCS, M10 X 25, DIN 933.8-8 ZN</td>
</tr>
<tr>
<td>236810824</td>
<td>HHCS, M10X75, DIN 933-8.8 ZN</td>
</tr>
</tbody>
</table>

### X = multiple variations of part number: use wildcard to search (Rytec parts representative)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware Description</th>
</tr>
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<tbody>
<tr>
<td>0013013</td>
<td>NUT, 5/16-18 UNC PROJECTION WELD</td>
</tr>
<tr>
<td>24380324</td>
<td>HHCS, M10X20, DIN 933.8-8 ZN</td>
</tr>
<tr>
<td>01260310</td>
<td>M10 PRESS NUT</td>
</tr>
<tr>
<td>01900712</td>
<td>NUT, M6 HEX FLANGE, DIN 6923-8Z</td>
</tr>
<tr>
<td>01900820</td>
<td>HHCS, M8-1.25 X 16, T40, ZN</td>
</tr>
<tr>
<td>01260320</td>
<td>HHCS, M8X16, DIN 933 - 8.8 ZN</td>
</tr>
<tr>
<td>01260365</td>
<td>HHCS, M8X16, DIN 933 - 8.8 ZN</td>
</tr>
</tbody>
</table>

### Hardware listed below

- **ASSY, SUPPORT, BEARING, LH, SSN-L**
- **ASSY, SUPPORT, BEARING, RH, SSN-L**
- **ASSY, CONSOLE, SSN-L, LH, NON-DRIVE**
- **ASSY, CONSOLE, SSN-L, RH, NON-DRIVE**

---

![Diagram of console brackets](image-url)
Console Brackets -S size doors

Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
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<td>0013013</td>
<td>0021738</td>
<td>NUT, 5/16-18UNC PROJECTION WELD</td>
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<tr>
<td>23681624</td>
<td>01260310</td>
<td>HHCS,M10X20,DIN 933-8.8 ZN</td>
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<td>1070402-024</td>
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<td>BSCSF,M6X12,T30,ZN,PRECOTE 80-8</td>
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<tr>
<td>1071932-X04</td>
<td>01900820</td>
<td>BSCSF,M8-1.25 X 16,T40,ZN</td>
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<tr>
<td>1071730201</td>
<td>01901530</td>
<td>RIV-NUT MB,AKS4 - 8125 - 3.80</td>
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<tr>
<td>1071744-X01</td>
<td>01901601</td>
<td>HHCS,M10 X 25, DIN 933-8.8 ZN</td>
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<td>1070419-0</td>
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<td>23681024,236810R24</td>
<td>01260365</td>
<td>HHCS,M10X75,933-8.8 ZN</td>
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</tbody>
</table>

X = multiple variations of part number: use wildcard to search (Rytec parts representative)
Vertical Tracks *all doors*

- **217507**
  - PIN, TRACK, SIDE COLUMN LOCATING
  - Qty: = 4

- **1071425-0203**
  - SPACER, VERTICAL TRACK
  - Qty: = 9
  - Includes 217102Z1, Qty: 2

- **217102Z1**
  - HLDERS, GUIDE PROFILE

- **237803-1X**
  - VERTICAL TRACK, ASSEMBLY, LH

- **237803-2X**
  - VERTICAL TRACK, ASSEMBLY, RH

  *Configured part: requires door serial number to order*

- **217102Z4**
  - WASHER, FLAT .25” USS ZINC

- **0555141**
  - WASHER, FLAT .25” USS ZINC

- **0551050**
  - #12-14 X .75”, SELF TAPPING HEX HEAD SCREW

---

**Hardware – Order Separately**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>1071425-0203</td>
<td>5550286-0201</td>
<td>HFSMS, M8-1.25X20 CL8.8 ZN</td>
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</tbody>
</table>

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At bottom of track
**Horizontal Track Assembly** *all doors*

<table>
<thead>
<tr>
<th>Hardware – Order Separately</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td>Hardware</td>
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<tr>
<td>236319Z1</td>
<td>01901508</td>
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<td></td>
<td>01900820</td>
</tr>
<tr>
<td>236321Z4</td>
<td>01901508</td>
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<tr>
<td></td>
<td>01900820</td>
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<tr>
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</tr>
</tbody>
</table>

**236856 GUIDE ASSY,HORIZONTAL RAIL,SSN**

*Qty: drive side = 1, non-drive side = 1*

*Configured part: requires door serial number to order*

*Hardware listed below*

**236322Z1 STANDOFF, HORIZONTAL TRACK**

*Qty: = 5*

| 1072123-1A01 | COVER,TRACK,LH,PH 1200-2300 |
| 1072123-1B01 | COVER,TRACK,LH,PH 2310-3660 |
| 1072123-2A01 | COVER,TRACK,RH,PH 1200-2300 |
| 1072123-2B01 | COVER,TRACK,RH,PH 2310-3660 |

*Qty: = 2 (One on each LH and RH sides)*

*Configured part: requires door serial number to order*

**236321Z4 BRACKET, HORIZONTAL TRACK STANDOFF**

*Qty: = 3*

*Hardware listed below*

**1072220-0A PROFILE,HORIZONTAL DIST, S**

**1072220-0B PROFILE,HORIZONTAL DIST, L**

*Configured part: requires door serial number to order*

**236319Z1 BRACKET, BACK CORNER**

*Qty: = 2*

*Hardware listed below*

**217507 PIN, TRACK, SIDE COLUMN LOCATING**

*Qty: = 4*
# Drive Shaft, Non-Drive Side

*all doors*

## Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>237503_1-01Z1</td>
<td>01180525</td>
<td>M8-1.25 X 25 Socket Head Cap Screw</td>
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<tr>
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<td>01080030</td>
<td>WASHER, M8, LOCK, HIGH COLLAR, DIN 7980, STL, ZN</td>
<td>6</td>
</tr>
<tr>
<td>238503_2Z1</td>
<td>01180525</td>
<td>M8-1.25 X 25 Socket Head Cap Screw</td>
<td>8</td>
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<td>01080030</td>
<td>WASHER, M8, LOCK, HIGH COLLAR, DIN 7980, STL, ZN</td>
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<td>WASHER, 10 MM, LOCK, SPLIT, ZN</td>
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</tbody>
</table>

**NOTE:** drive side may be LH or RH. LH drive shown.

**NOTE:** part numbers vary based on door model.

*STN-L* Transapent door slats, small

*SSN-L* Solid door slats, small

*STN-S* Transparent door slats, large

*SSN-S* Solid door slats, large
Drive Shaft, Drive Side  

**Part Number**

- **205533**  
  PULLEY, HTD P64-8M-30, FLGD, D168  
  (-L size doors)

- **206513**  
  PULLEY, HTD P77-8M-50  
  (-S size doors)

**Qty:** non-drive side = 1, drive side = 1

**Hardware – Order Separately**

- **01340150**  
  SHIM RING, 35X45X2, DIN 988 PS (-L size doors)

- **01340230**  
  SHIM RING, 50X62X2, DIN 988 PS (-S size doors)

**Qty:** non-drive side = 1, drive side = 1

**NOTE:** drive side may be LH or RH. LH drive shown.

**NOTE:** part numbers vary based on door model

- **STN-L**  
  Transparent door slats, small

- **SSN-L**  
  Solid door slats, small

- **STN-S**  
  Transparent door slats, large

- **SSN-S**  
  Solid door slats, large

---

20553221  
PULLEY, HTD P64-8M-30 (-L size doors)

206514  
PULLEY, HTD P77-8M-50 (-S size doors)

01340150  
SHIM RING, 35X45X2, DIN 988 PS (-L size doors)

01340230  
SHIM RING, 50X62X2, DIN 988 PS (-S size doors)

Qty: non-drive side = 1, drive side = 1

**237503-1-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-L size doors)

**238503-2-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-S size doors)

**205533**  
PULLEY, HTD P64-8M-30 (-L size doors)

206514  
PULLEY, HTD P77-8M-50 (-S size doors)

01340150  
SHIM RING, 35X45X2, DIN 988 PS (-L size doors)

01340230  
SHIM RING, 50X62X2, DIN 988 PS (-S size doors)

Qty: non-drive side = 1, drive side = 1

**237503-1-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-L size doors)

**238503-2-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-S size doors)

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**01531420**  
KEY, 14X9X56, DIN 6885 A C45K

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**237503-1-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-L size doors)

**238503-2-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-S size doors)

**205533**  
PULLEY, HTD P64-8M-30 (-L size doors)

206514  
PULLEY, HTD P77-8M-50 (-S size doors)

01340150  
SHIM RING, 35X45X2, DIN 988 PS (-L size doors)

01340230  
SHIM RING, 50X62X2, DIN 988 PS (-S size doors)

Qty: non-drive side = 1, drive side = 1

**237503-1-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-L size doors)

**238503-2-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-S size doors)

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**01531420**  
KEY, 14X9X56, DIN 6885 A C45K

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**237503-1-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-L size doors)

**238503-2-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-S size doors)

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**01531420**  
KEY, 14X9X56, DIN 6885 A C45K

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**237503-1-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-L size doors)

**238503-2-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-S size doors)

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**01531420**  
KEY, 14X9X56, DIN 6885 A C45K

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**237503-1-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-L size doors)

**238503-2-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-S size doors)

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**01531420**  
KEY, 14X9X56, DIN 6885 A C45K

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**237503-1-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-L size doors)

**238503-2-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-S size doors)

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**01531420**  
KEY, 14X9X56, DIN 6885 A C45K

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**237503-1-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-L size doors)

**238503-2-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-S size doors)

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**01531420**  
KEY, 14X9X56, DIN 6885 A C45K

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**237503-1-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-L size doors)

**238503-2-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-S size doors)

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**01531420**  
KEY, 14X9X56, DIN 6885 A C45K

**01531036**  
KEY, 10X8X36, DIN 6885 A C45K

**237503-1-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-L size doors)

**238503-2-01Z1**  
DRIVE SHAFT, DRIVE SIDE  
(-S size doors)
Drive Belt all doors

243804Z4 IDLER PULLEY ASSY,SSN-L (-L size doors)
264855Z21 IDLER PULLEY, SSN-S, 30 TOOTH (-S size doors)
Includes 2238505-01Z1 PIN, SERRATED BELT PULLEY

Hardware listed below

243811-01Z4 ROLLER ASSY,IDLER (-L size doors)
236813-01Z4 ROLLER ASSY,IDLER (-S size doors)
Includes 2238505-01Z1 PIN, SERRATED BELT PULLEY

1072214-0B TOOTH BELT,8M-30,PRE-CUT (-L size doors)
1072215-0B TOOTH BELT,8M-50,PRE-CUT (-S size doors)
Configured part: requires door serial number to order

19000825 BSCSF,M8-1.25 x 25mm,T40,ZN
1260280 M8-1.25 HEX PRESS NUT
1260272 HHCS,M8X16,DIN 933-8.8 ZN
1260360 HHCS,M10X60,DIN 933-8.8 ZN
5550304-0Z01 HWNSTP M10-1.5 STL
5550304-0Z01 HWNSTP M10-1.5 STL

243809_1Z4 BRKT ASSY,IDLER PULLEY,LH (-L size doors)
243809_2Z4 BRKT ASSY,IDLER PULLEY,RH (-L size doors)
Includes (1) 1260360 HHCS,M10X60,DIN 933-8.8 ZN,
5550304-0Z01 HWNSTP M10-1.5 STL

NOTE: drive side may be LH or RH.
LH drive shown.

Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>243818Z4</td>
<td>01300530</td>
<td>SCREW, M10 X 30, DIN 963-4.8</td>
<td>2</td>
</tr>
<tr>
<td>1072208-0Z01</td>
<td>01270060</td>
<td>NUT, M10 HEX, DIN 934-8 ZN</td>
<td>4</td>
</tr>
<tr>
<td>243804Z4,</td>
<td>01260310</td>
<td>HHCS,M10X20,DIN 933-8.8 ZN</td>
<td>2</td>
</tr>
<tr>
<td>264855Z21</td>
<td>01901610</td>
<td>M10 PRESS NUT</td>
<td>2</td>
</tr>
<tr>
<td>243809_1Z4</td>
<td>01260272</td>
<td>HHCS,M8X16,DIN 933-8.8 ZN</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>01901608</td>
<td>M8-1.25 HEX PRESS NUT</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>01900825</td>
<td>BSCSF,M8-1.25 x 25mm,T40,ZN</td>
<td></td>
</tr>
<tr>
<td>236809Z4</td>
<td>01260272</td>
<td>HHCS,M8X16,DIN 933-8.8 ZN</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>01901608</td>
<td>M8-1.25 HEX PRESS NUT</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>01160500</td>
<td>CARRIAGE BOLT,M8X30,DIN 603MU</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>01901508</td>
<td>NUT, M8 FLANGED</td>
<td>4</td>
</tr>
<tr>
<td>243811-01Z4</td>
<td>01060042</td>
<td>WASHER,8.4mm,DIN 125A,ZN</td>
<td>2</td>
</tr>
<tr>
<td>236813-01Z4</td>
<td>01260280</td>
<td>HHCS,M8X25,DIN 933-8.8 ZN</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>01901608</td>
<td>M8-1.25 HEX PRESS NUT</td>
<td>2</td>
</tr>
</tbody>
</table>

NOTES: drive side may be LH or RH.
LH drive shown.
### Door Panels and Hinge Chains

**-L size doors with solid panels (1072410 SSN-L)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Configured part: Requires door serial number to order</th>
</tr>
</thead>
<tbody>
<tr>
<td>1070853-0</td>
<td>PANEL/HINGE ASSY, SSN-L</td>
<td></td>
</tr>
<tr>
<td>237834</td>
<td>TOP PNL ASSY, 20MM, SST-L</td>
<td></td>
</tr>
<tr>
<td>04010170</td>
<td>SEAL, SPIRAL DOOR TOP</td>
<td></td>
</tr>
<tr>
<td>237833</td>
<td>PANEL ASSY, 20MM, SST-L</td>
<td></td>
</tr>
<tr>
<td>04010085-04</td>
<td>SEAL, PANEL HINGE</td>
<td></td>
</tr>
<tr>
<td>1071279-0</td>
<td>VENT ASSY, W/SPACERS, 20mm x 151mm, SST-L, SST-L/R, SSN-L</td>
<td></td>
</tr>
<tr>
<td>1071006-0A</td>
<td>ASSY, WINDOW, PRESSED LEXAN, STT-L/R, 20mm x 151mm</td>
<td></td>
</tr>
<tr>
<td>231860-1</td>
<td>HINGE CHAIN ASSY, 151X65MM, LH (SSN-L doors)</td>
<td></td>
</tr>
<tr>
<td>231860-2</td>
<td>HINGE CHAIN ASSY, 151X65MM, RH (SSN-L doors)</td>
<td></td>
</tr>
</tbody>
</table>

See page 36 for hinge and roller components
Door Panels and Hinge Chains - S size doors with solid panels (1072411 SSN-S)

107085-0 PANEL/HINGE ASSY, SSN-S
Configured part: requires door serial number to order

04010170 SEAL, SPIRAL DOOR TOP
Configured part: requires door serial number to order

238832 TOP PNL ASSY, 30MM, SST-S
Configured part: requires door serial number to order

04010085-04 SEAL, PANEL HINGE

238833 PANEL ASSY, 30MM, SST-S
Configured part: requires door serial number to order

1071281-0 VENT ASSY, W/SPACERS, 30mm x 151mm, SST-S, SST-S/R, SSN-S
Configured part: requires door serial number to order

1071021-0A FINAL ASSY, PRESSED WINDOW, w/SEALS, 30MMx151MM, SST-S
Configured part: requires door serial number to order

23826-1 HINGE CHAIN ASSY, 151X100MM, LH (SSN-S doors)
Configured part: requires door serial number to order

23826-2 HINGE CHAIN ASSY, 151X100MM, RH (SSN-S doors)
Configured part: requires door serial number to order

See page 36 for hinge and roller components
Door Panels and Hinge Chains

-L size doors with Full Vision panels (1072413 STN-L)

Configured part: requires door serial number to order

See page 36 for hinge and roller components
Door Panels and Hinge Chains - S size doors with Full Vision panels (1072414 STN-S)

1071935-1 HINGE CHAIN ASSY, STN-S, 225X65, LH (STN-S doors)
Configured part: requires door serial number to order

1071935-2 HINGE CHAIN ASSY, STN-S, 225X65, RH (STN-S doors)
Configured part: requires door serial number to order

See page 36 for hinge and roller components
### Bottom Bar Assembly  
**all doors**

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIVOT ASSY 01900816</td>
<td>BSCSF,M8-1.25 X 16,T40,ZN</td>
<td>3</td>
</tr>
<tr>
<td>01160606</td>
<td>CARRIAGE BOLT, M10 X 55mm</td>
<td>2</td>
</tr>
<tr>
<td>01800880</td>
<td>WASHER,10.5MM,DIN 9021A ZN</td>
<td>1</td>
</tr>
</tbody>
</table>

X = multiple variations of part number  
(consult Rytec parts representative)

---

**NOTE:** part numbers vary based on door model

<table>
<thead>
<tr>
<th>Configurations</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0A = LH door, wireless</td>
<td>STN-L: Transparent door slats, small</td>
</tr>
<tr>
<td>-0B = RH door, wireless</td>
<td>SSN-L: Solid door slats, small</td>
</tr>
<tr>
<td>-0C = non-wireless door</td>
<td>STN-S: Transparent door slats, large</td>
</tr>
<tr>
<td>SSN-S: Solid door slats, large</td>
<td></td>
</tr>
</tbody>
</table>

---

Hardware listed below:

- 1071962-1A  SUB-ASSY, END BRACKET, SSN-S, RH  
- 1071962-2A  SUB-ASSY, END BRACKET, STN-S, RH  

---

**SEAL, PANEL HINGE**

**SUB-ASSY, END BRACKET, SSN-L, RH**

(SSN-L and STN-L doors)

Hardware listed below:

- 1071959-0Z04  PIVOT ASSY, CLAMP, SSN/STN-L  
- 1071960-1A  SUB-ASSY, END BRACKET, SSN-L, LH  (SSN-L and STN-L doors)  
- 1071960-2A  SUB-ASSY, END BRACKET, SSN-S, LH  
- 1071962-1A  SUB-ASSY, END BRACKET, SSN-S, RH  
- 1071962-2A  SUB-ASSY, END BRACKET, STN-S, RH  

---

**ASSY, TST BLOCKING STRIP**

Standard part

Hardware listed below:

- 1071959-0Z04  PIVOT ASSY, CLAMP, SSN/STN-L  
- 1071960-1A  SUB-ASSY, END BRACKET, SSN-L, LH  (SSN-L and STN-L doors)  
- 1071960-2A  SUB-ASSY, END BRACKET, SSN-S, LH  
- 1071962-1A  SUB-ASSY, END BRACKET, SSN-S, RH  
- 1071962-2A  SUB-ASSY, END BRACKET, STN-S, RH  

---

**ASSY, REVERSING EDGE, LH DRIVE, SSN**

Hardware listed below:

- 1072184-1  ASSY, REVERSING EDGE, LH DRIVE, SSN  
- 1072185-1  ASSY, REVERSING EDGE, LH DRIVE, SSN  
- 1072184-2  ASSY, REVERSING EDGE, RH DRIVE, SSN  
- 1072185-2  ASSY, REVERSING EDGE, RH DRIVE, SSN  
- 1072439-0  ASSY, EDGE, BOTTOM BAR, SSN (non-active edge)  

Configured part: requires door serial number to order

---

**ASSY, TST BLOCKING STRIP, EXTND FLAP**

Configured part: requires door serial number to order

---

**ASSY, TST BLOCKING STRIP**

Standard part

Hardware listed below:

- 1071995-0204  PIVOT ASSY, CLAMP, SSN/STN-L  
- 1071960-0Z04  PIVOT ASSY, CLAMP, SSN/STN-S  

Configured part: requires door serial number to order

---

**ASSY, END BRACKET, SSN-L, RH**

(SSN-L and STN-L doors)

Hardware listed below:

- 1071960-1A  SUB-ASSY, END BRACKET, SSN-L, RH  
- 1071960-2A  SUB-ASSY, END BRACKET, SSN-S, RH  

---

**ASSY, END BRACKET, STN-S, LH**

Hardware listed below:

- 1071962-1A  SUB-ASSY, END BRACKET, SSN-S, LH  
- 1071962-2A  SUB-ASSY, END BRACKET, STN-S, LH  

---

*STN-L*  Transparent door slats, small  
*SSN-L*  Solid door slats, small  
*STN-S*  Transparent door slats, large  
*SSN-S*  Solid door slats, large
### Door Panel Hinges all doors

**Painted panels are configured parts, and require door serial number to order**

**Top panel**
- (SSN-L, STN-L, STN-S doors)
  - 231828-1: UNPAINTED HINGE ASSY, ALUM, TOP, 151X65, LH
  - 231828-2: UNPAINTED HINGE ASSY, ALUM, TOP, 151X65, RH
- (SSN-S doors)
  - 232817-1: UNPAINTED HINGE ASSY, ALUM, TOP, 151X100, LH
  - 232817-2: UNPAINTED HINGE ASSY, ALUM, TOP, 151X100, RH

**Middle panels**
- (SSN-L, STN-L, STN-S doors)
  - 231847-1: UNPAINTED HINGE ASSY, ALUM, WIN, 151X65, LH
  - 231847-2: UNPAINTED HINGE ASSY, ALUM, WIN, 151X65, RH
- (SSN-S doors)
  - 231859-1: UNPAINTED HINGE ASSY, ALUM, MID, 151X65, LH
  - 231859-2: UNPAINTED HINGE ASSY, ALUM, MID, 151X65, RH
- (STN-L, STN-S doors)
  - 231854-1: UNPAINTED HINGE ASSY, ALUM, WIN, 225X65, LH
  - 231854-2: UNPAINTED HINGE ASSY, ALUM, WIN, 225X65, RH
- (SSN-L doors)
  - 232824/1: HINGEassy, MID/WIN, 225X100, LH
  - 232824/2: HINGEassy, MID/WIN, 225X100, RH

**Bottom panel**
- (SSN-L doors)
  - 1070995-1: UNPAINTED HINGE ASSY, ALUM, BOT, 151X65, LH
  - 1070995-2: UNPAINTED HINGE ASSY, ALUM, BOT, 151X65, RH
- (STN-S doors)
  - 231827-1: UNPAINTED HINGE ASSY, ALUM, BOT, 151X65, LH
  - 231827-2: UNPAINTED HINGE ASSY, ALUM, BOT, 151X65, RH

**NOTE:** part numbers vary based on door model
- STN-L: Transparent door slats, small
- SSN-L: Solid door slats, small
- STN-S: Transparent door slats, large
- SSN-S: Solid door slats, large

**Hardware:**
- (2) 1160505 CARRIAGE BOLT,M8X35,DIN 603ML, (2) 555354-0201 NUT, M10-1.5, HEX, CAP, DIN 1587, ZN
- (2) 218504Z1 AXLE, HINGE, 133mm, (SSN-S doors)
- (2) 217504Z1 AXLE, HINGE, 99mm, (SSN-L, STN-L, STN-S doors)
Motor and Encoder *all doors*

**Hardware – Order Separately**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1070144</td>
<td>01750080</td>
<td>FHSC5, M6x16, DIN 7991 10.9</td>
<td>3</td>
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<tr>
<td>1070960-0</td>
<td>5550246-02Z01</td>
<td>HHCS M4-0.7x16 GR5 ZN</td>
<td>4</td>
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<tr>
<td></td>
<td>5550057-02Z01</td>
<td>NUT, M4-0.7, HEX HEAD, ZINC, NYLOCK</td>
<td>4</td>
</tr>
<tr>
<td>1070678-0</td>
<td>5550264-0</td>
<td>RATCHET FASTENER, 16 x .04-.25, BLK NYLON</td>
<td>2</td>
</tr>
</tbody>
</table>

**NOTE:** drive side may be LH or RH. LH drive shown.
Brake Components *all doors*

NOTE: drive side may be LH or RH. LH drive shown.

**Hardware – Order Separately**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1210775-0A</td>
<td>ASSY, RELEASE LEVER, DECAL, UNLOCK</td>
</tr>
<tr>
<td>5550054-02Z01</td>
<td>PFMS, M4 X 0.70 X 12MM LG, ZINC</td>
</tr>
<tr>
<td>5550057-02Z01</td>
<td>HLNNI M4-0.7 GR8 ZN</td>
</tr>
<tr>
<td>1071407-0</td>
<td>COVER, BRAKE RELEASE, HANDLE CUTOUT</td>
</tr>
<tr>
<td>5550054-0Z01</td>
<td>PFMS, M4 X 0.70 X 12MM LG, ZINC</td>
</tr>
<tr>
<td>5550057-0Z01</td>
<td>HLNNI M4-0.7 GR8 ZN</td>
</tr>
<tr>
<td>080701071</td>
<td>SPRING, COMPRESSION, .054 X .50 X 4.00</td>
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<tr>
<td>01900050</td>
<td>WASHER, 6.4X25X1.25, 1231</td>
</tr>
<tr>
<td>08151080</td>
<td>CLAMP, CABLE STOP</td>
</tr>
<tr>
<td>Qty: head assembly = 2, side column = 1</td>
<td></td>
</tr>
<tr>
<td>0804227</td>
<td>CABLE, BRAKE RELEASE</td>
</tr>
<tr>
<td>1210488-0</td>
<td>SPRING, TENSION, .063 X 5 X 2.25</td>
</tr>
<tr>
<td>1070401-0Z1</td>
<td>BRAKE RELEASE LEVER STANDOFF .375in HEX, M6</td>
</tr>
</tbody>
</table>

**Secured by 08151080 CLAMP, CABLE STOP**

Hardware listed below.
Spring Assemblies - Part 1 all doors

NOTE: springs are installed in assemblies of 1-3 springs, with up to 6 springs per side column; 4-6 springs have 2 assemblies. Each includes (part number and qty. vary by configuration):

BRK, STRAP
ASSY, TAB, SPRING
BRK, GUIDE
GUIDE TUBE
COLLAR, LOCKING

Configured part: requires door serial number to order

1071794-0
ASSY, STRAP, SPRING, 4BLUE
Includes 1071989-0: STRAP, SPRING, CUT LGTH/HOLES
1210724-0Z01 PLATE, CLAMP, 40mm WIDE STRAP (13)
1260286 HHCS M10X20 GR8.8 ZN (2)
1901608 M8-1.25 HEX PRESS NUT (2)

1071985-0A: BRKT, STRAP, 1 SPRING
1071985-0B: BRKT, STRAP, 2 SPRING
1071985-0C: BRKT, STRAP, 3 SPRING

1071781-0: COLLAR, LOCKING

1071776-0Z01 ASSY, TAB, SPRING

1072229-0Z01 ASSY, IDLER ROLLER
Hardware:
1260272 MHCMBX630 DIN 933 - 8.8 ZN (2)
01060142 WASHER, M6, DIN 125, ZN (2)
5550301-0201 MNSTP M8-1.25 ZN (2)

1072232-0Z01 ASSY, IDLER ROLLER, DOUBLE
Hardware:
5550284-0Z01 MNSTP M10-1.5 STL (2)
01060043 WASHER, 10.5mm FLAT, DIN 125 ZN (2)
1260310 HHCS M10X20 GR8.8 ZN (2)

01900708 BSCSF, M6X8, T30, 2N
Or: 2
Secure strap to drive shaft
Spring Assemblies - Part 2 *all doors*

**NOTE:** springs are installed in assemblies of 1-3 springs, with up to 6 springs per side column; 4-6 springs have 2 assemblies.

Each includes (part number and qty. vary by configuration):
- BRK, STRAP
- ASSY, TAB, SPRING
- BRK, GUIDE
- GUIDE TUBE

**Configured part:** requires door serial number to order
Remote Mobile Unit *all doors*

**1180001-08** ASSY,MOBILE UNIT,POTTED,SPIRAL *(includes Service Bulletin 234)*

**1060116-0** COVER,WIRELESS

**00111193** BATTERY WIRELESS "D" W/TABS

**1210110-0** LABEL,WIRELESS COVER,RY-WI

**1070625-0** GASKET,WIRELESS COVER

**01900720** BSCSF,M6X20,T30,ZN,PRECOTE 80-8
SmartSurround™ and Advanced³ Light Curtains all doors

Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1210865-0X</td>
<td>0551050</td>
<td>#12-14 X 3/4&quot;, SELF TAPPING HEX HEAD SCREW</td>
<td>4</td>
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<tr>
<td>1210877-0A</td>
<td>P-CLIP..313&quot;</td>
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<tr>
<td>1210865-0A</td>
<td>5550352-0A04</td>
<td>PFSMS #8X1.25 SS</td>
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<tr>
<td>1210865-0C</td>
<td>5550353-0</td>
<td>CONCRETE ANCHOR,#8 X1.00</td>
<td>4</td>
</tr>
</tbody>
</table>

1210852-0A
LIGHT CURTAIN,LGD,TRANS,2105mm
1210852-0B
LIGHT CURTAIN,LGD,REC,2105mm
1210852-0C
LIGHT CURTAIN,LGD,TRANS,1565mm
1210852-0D
LIGHT CURTAIN,LGD,REC,1565mm
Requires door serial number:
part number based on height of door

NOTE: light curtain transmitter
and receiver may be LH or RH.
Check label on module.

1210865-0A
ASSY,LED LIGHT CURTAIN,LGCA,TRANS
includes 1210851-0A LED LIGHT CURTAIN,LGCA,TRANS and 1210854-0A MOUNTING CHANNEL, LGCA
1210865-0B
ASSY,LED LIGHT CURTAIN,LGCA,REC
includes 1210851-0B LED LIGHT CURTAIN,LGCA,REC and 1210854-0A MOUNTING CHANNEL, LGCA
1210865-0C
ASSY,LED LIGHT CURTAIN,LGCA,TRANS (labeled)
includes 1210851-0A LED LIGHT CURTAIN,LGCA,TRANS, 1210854-0A MOUNTING CHANNEL, LGCA and 1210869-0A LABEL,IDENTIFICATION,01
1210865-0D
ASSY,LED LIGHT CURTAIN,LGCA,REC (labeled)
includes 1210851-0B LED LIGHT CURTAIN,LGCA,REC and 1210854-0A MOUNTING CHANNEL, LGCA and 1210869-0A LABEL,IDENTIFICATION,01

Hardware listed below

1071846-0C
TRACK CLIP, WIRE CHASE, LIGHT CURTAIN, 2077mm
1071846-0D
TRACK CLIP, WIRE CHASE, LIGHT CURTAIN, 1527mm
1071846-0E
TRACK CLIP, WIRE CHASE, LIGHT CURTAIN, 977mm
Requires door serial number:
part number based on height of door

1210865-0C and 1210865-0D are mounted on the side columns (front) and connect to labeled cable 1210879-0A (see next page). They are labeled because they must be disconnected before the side column is removed, then reconnected when the panel is reinstalled.
CAN Cables, Connectors and Components

**Drive side console**

1. **1072422-** BRACKET ASSY, CAN BOX, SPIRAL, REPEATER BOX
   - Includes 1210858-0B CAN BOX, REPEATER, 4-CHANNEL and 1210861 HOLDER, MULTI-TUBE, .25" OD, 5-CHANNEL
   - To order: requires door serial number and location of side column (left side or right side when viewed from front of door)
   - Hardware listed below

2. **1072422-** BRACKET ASSY, CAN BOX, SPIRAL, DISTRIBUTION BOX
   - Includes 1210857-0B CAN BOX, DISTRIBUTION, 4-CHANNEL and 1210861 HOLDER, MULTI-TUBE, .25" OD, 5-CHANNEL
   - To order: requires door serial number and location of side column (left side or right side when viewed from front of door)
   - Hardware listed below

3. **1210800-0A** CABLE, 6 COND, M8 SOCKET TO M8 PLUG, 9M
   - Connects to (optional) remote mounted BTA4 user terminal
4. **1210800-0B** CABLE, 6 COND, M8 SOCKET TO M8 PLUG, 0.3M
   - Connects to wall mounted (rear) SmartSurround™
5. **1210800-0C** CABLE, 6 COND, M8 SOCKET TO M8 PLUG, 1.5M
   - Connects to (optional) side column mounted BTA4 user terminal
6. **1210800-0D** CABLE, 6 COND, M8 SOCKET TO M8 PLUG, 2M
   - Connects to (optional) remote mounted BTA4 user terminal
7. **1210800-0E** CABLE, 6 COND, M8 SOCKET TO M8 PLUG, 2.7M
   - Connects to Advanced™ light curtain
8. **1210800-0F** CABLE, 6 COND, M8 SOCKET TO M8 PLUG, 15M
   - Connects to (optional) remote mounted BTA4 user terminal
9. **1210879-0A** CABLE ASSY, LABELED, M8, 0.3M, 01
   - Connects to side column mounted (front) SmartSurround™
10. **1210855-** CABLE, 4 COND, M12 SOCKET TO M12 PLUG
    - Multiple lengths: requires door serial number to order
11. **1210856-** CABLE, 4 COND, M12 SOCKET TO FLY LEAD
    - Multiple lengths: requires door serial number to order
12. **1210860-0A** JUMPER, 0 OHM, M8 PLUG, 6-PIN
13. **1210858-0A** CAN BOX, REPEATER, 2-CHANNEL (standard, shown above)
14. **1210858-0B** CAN BOX, REPEATER, 4-CHANNEL

**Non-drive side baseplate**

**Drive side baseplate**

**NOTE: drive side may be LH or RH.**

* = multiple variations of part number: use wildcard to search (Rytec parts representative)

**NOTE: part numbers vary based on door model**

- STN-L Transparent door slats, small
- SSN-L Solid door slats, small
- STN-S Transparent door slats, large
- SSN-S Solid door slats, large

**Hardware – Order Separately**

<table>
<thead>
<tr>
<th>PN/Description</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1072422-XX</td>
<td>5550300-0201</td>
<td>HFSMS, M8-1.25X12 CL 10.9 ZH</td>
<td>2</td>
</tr>
</tbody>
</table>

**1210855**
these cables connect CAN boxes and screw together

**1210856**
Cable to controller

**1210800**, **1210879-0A**
these cables connect devices to CAN boxes and snap together

Arrows embossed on side of connectors line up when contacts are properly aligned. Connectors will only connect completely when arrows are lined up.

**1210859-0A** RESISTOR, 120 Ω, M8 PLUG, 6-PIN
Used for troubleshooting CAN bus
System 4 Controller and Accessories *all doors*

- **00142013** KEYPAD WITH R/G LED, OCS
- **00142000** SYSTEM 4 CONTROL ASSY, PER DOOR
  - Configured part: requires door serial number to order
- **00142051** ENCLOSURE, EMPTY
- **00142020** USB DRIVE
- **00142015** BATTERY, BUTTON CELL, CR2032, 3V LITHIUM
- **00112023** MAGNETIC FILTER, 14.2 MM FERRITE CORE
  - Qty: 2
- **00112001** MAGNETIC FILTER, 26 MM FERRITE CORE
  - Qty: 2
- **1210590-0** AEROSOL SPRAY CAN, 12 OZ, RC004 (SILVER)
- **1070360-0Z1** DOOR SERVICE PLATE, L/R, S/R, US/R
BTA4 User Terminal *all doors*

### Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1210763-0401</td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 20 T40 ZN</td>
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<tr>
<td>1210766-0A</td>
<td>5550351-0A01</td>
<td>PFMS M4-0.7 x 30 STL ZN</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>5550057-0Z01</td>
<td>NUT, M4-0.7, HEX HEAD, LOCKING, NYLON INSERT, ZINC</td>
<td>4</td>
</tr>
</tbody>
</table>

- **1210609-0** ASSY, ENCLOSURE, REMOTE DISPLAY
  Includes USER TERMINAL, hardware

- **1071820-0** REMOTE DISPLAY MOUNTING BRACKET
  Uses existing side column hardware

- **1210640-0** ASSY, FLANGED BEZEL
  Includes hardware

- **1210764-0B** KIT ASSEMBLY, USER TERMINAL, DEVICE
  Includes 1210766-0A FRAME, USER TERMINAL, hardware

- **1210766-0A** FRAME, USER TERMINAL
  Hardware listed below

- **1210763-0A01** ADAPTER PLATE
  L-size doors only
  Hardware listed below

- **1210609-0** ASSY, ENCLOSURE, REMOTE DISPLAY
  Includes USER TERMINAL, hardware

- **1071820-0** REMOTE DISPLAY MOUNTING BRACKET
  Uses existing side column hardware

- **1210640-0** ASSY, FLANGED BEZEL
  Includes hardware

- **1210764-0B** KIT ASSEMBLY, USER TERMINAL, DEVICE
  Includes 1210766-0A FRAME, USER TERMINAL, hardware

- **1210766-0A** FRAME, USER TERMINAL
  Hardware listed below

- **1210763-0A01** ADAPTER PLATE
  L-size doors only
  Hardware listed below
Expansion Boards *all doors*

- 00142225 Expansion Board, Communication
- 00142008 Display Only, SYS4
- 00122000 Loop Detector Module, 2 Channel, SYS4
- 00142014 Expansion Card with I/O & 2 CH Loop
- 00121045 RC Receiver, 24VDC AM, 2 Channel
SPIRAL® LH® 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 Spiral® Door Series ("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 Five (5) Years from the date of shipment of the Product from the Seller’s plant ("Shipment"). Note: Motor assembly is a mechanical component.
- **Electrical components** for a period of Two (2) Years from Shipment.
- **Standard door panel assemblies, including panel slats, hinge rollers, and hinges** for a period of Two (2) Years from Shipment.
- **Drive pulleys, side column brush/vinyl seals, spring straps, lower tooth pulley assembly, drive & timing belts, 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 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 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 ANYONE FOR, SPECIAL, INDIRECT, COLLATERAL, PUNITIVE, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, 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 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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