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.
# Table of Contents

**Introduction**  
- How to find the serial number  
- Rytec naming conventions

**Safety**  
- Safety information and the meaning of signal words  
- Operational and maintenance safety  
- Safety features

**Operation**  
- How to hold the door open  
- How to open and close the door manually, gear disconnect  
- How to open and close the door manually, optional chain hoist

**Maintenance**  
- How to clean the door  
- Daily maintenance  
- How to inspect the safety labels

**Parts**  
- How to order parts  
- How to return unwanted parts  
- Warranty return  
- Physical return  
- Why you may be sent substitute parts  
- Rytec Technical Knowledge Center  
- Horizontal Track Assembly, all doors  
- Spreader Assembly, all doors  
- Side Column Assemblies, all doors  
- Cables and Connectors, all doors

**Warranty**  
- SPIRAL® LP-S/SP-S LIMITED WARRANTY
The information contained in this manual will allow you to operate and maintain your Rytec® Spiral LP 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 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® 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 label to locate is at roughly eye level on the motor side column of the door, between the door panel and the rear Pathwatch.
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

- 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 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 services.
- 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.

Safety features

The standard Spiral LP installation includes two safety devices, which are located in the side panels of the door.

The light curtain prevents the door from closing when an obstruction is detected in the door opening, and holds the door open until the obstruction is removed. The light curtain extends from the floor to a height of five to seven feet, depending on the configuration of the door.

The Pathwatch LED strips alert you when the door is active. The strips flash in the following ways:

- While the door opens or closes: continuous red
- Before the door closes: a three-second sequence of red-yellow-combined.

One Pathwatch strip faces the front of the door, and the other faces inside the door opening.

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 LP 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

<table>
<thead>
<tr>
<th>NOTICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not use an activator, such as a light curtain or motion detector, to hold the door open.</td>
</tr>
</tbody>
</table>

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.**

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Make sure</strong> all users of the door are informed when the door is out of service, and when it is put back into service.</td>
</tr>
</tbody>
</table>
How to open and close the door manually (gear disconnect)

1 **NOTE:** if motor is covered, use a 5/16" socket to remove the four self-drilling screws that hold the cover in place.

Attach the manual gear disconnect to the chuck of a cordless electric drill.

2 Engage the brake release lever to release the brake.

3 Press the drill inward to engage the manual gear.

4 Operate the drill to move the door panel:
   - **Clockwise** to raise the door panel
   - **Counterclockwise** to lower the door panel

5 Release the brake release lever when the door panel is at the desired height.

How to open and close the door manually (optional chain hoist)

1 Smoothly pull on one side of the looped chain to move the door panel upward or downward.

2 Sharply pull on one side of the looped chain to engage the brake mechanism.
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.

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

**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.
Daily maintenance
These steps should be followed every day.

**NOTICE**

**IMPORTANT!** Immediately turn off the door and perform a lockout/tagout if any of the daily checks reveals that the door is not operating properly.

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 Pathwatch operates correctly as the door opens and closes:
   - **Continuous red light** while the door opens or closes.
   - **Three-second sequence** of red-yellow-combined before 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 damage or signs of excessive wear.

6. **Test the light curtain** by placing your hand in the path of the door at the top ①, middle ② and bottom ③ of the light curtain while the door panel closes.
   - **Make sure** the door panel returns to the fully open position each time the light curtain is activated.
   - **Make sure** the door panel stops immediately when you place your hand at the top ① of the light curtain, and gradually when you place your hand in the middle ② or at the bottom ③.
How to inspect the safety labels

1 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 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. **Call** the Rytec parts department at 800-628-1909 Ext. 2 for authorization.
   - The parts department will determine if you qualify for a **warranty return** or a **physical return**.
   - There may be a **restock fee** for the returned part.
   - 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 **Warranty Return Authorization (WRA)** and assign you an incident number.
2. You will receive replacement parts, a prepaid return label, and the WRA 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 WRA paperwork with the returned parts.

**Physical return**

1. Rytec will create a **Physical Return Authorization (PRA)** and assign you an incident number.
2. You will receive the return paperwork.
3. Box and return the parts.
   - **IMPORTANT!** You must include the PRA paperwork 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.
4. 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.
## Horizontal Track Assembly  
*all doors*

**236856**  
GUIDE ASSY,HORIZONTAL RAIL,SSN  
*Qty: 2 (One on each LH and RH sides)*  
*Includes 236315*  
*Configured part: requires door serial number to order*  
*Hardware listed below*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>2363221</td>
<td>STANDOFF, HORIZONTAL TRACK</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>23631921</td>
<td>BRACKET, BACK CORNER</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>236321</td>
<td>BRACKET, HORIZONTAL TRACK STANDOFF</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**236856**  
GUIDE ASSY,HORIZONTAL RAIL,SSN  
*Qty: 2 (One on each LH and RH sides)*  
*Includes 236315*  
*Configured part: requires door serial number to order*  
*Hardware listed below*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1072123-1A01</td>
<td>COVER,TRACK,LH,PH 1200-2300</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>1072123-1B01</td>
<td>COVER,TRACK,LH,PH 2310-3660</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>1072123-2A01</td>
<td>COVER,TRACK,RH,PH 1200-2300</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>1072123-2B01</td>
<td>COVER,TRACK,RH,PH 2310-3660</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

**236322Z1**  
STANDOFF, HORIZONTAL TRACK  
*Qty: 5*

**236319Z1**  
BRACKET, BACK CORNER  
*Qty: 2*

**236321**  
BRACKET, HORIZONTAL TRACK STANDOFF  
*Qty: 2*

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

---

**Hardware - Order Separately**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>236321</td>
<td>01901508</td>
<td>Nut, M8 Flanged</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>01900825</td>
<td>BSCSF, M8-1.25 x 25mm, T40, ZN</td>
<td>24</td>
</tr>
<tr>
<td>236856</td>
<td>01901508</td>
<td>Nut, M8 Flanged</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>01900825</td>
<td>BSCSF, M8-1.25 x 25mm, T40, ZN</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 20, T40, ZN</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>217507</td>
<td>Pin, Track, Side Column Locating</td>
<td>4</td>
</tr>
</tbody>
</table>

![diagram](image-url)
Spreader Assembly *all doors*

1071628-0X01 SPREADER ASSY, REAR SEAL
Includes 1071630-2Z01 and 1071630-1Z01
*Configured part: requires door serial number to order*

1071632-2Z01 BRACKET ASSY, HORIZ SEAL,RH
*Configured part: requires door serial number to order*
Hardware listed below

1071631-0Z01 BRACKET ASSY, HORIZ SEAL
*Configured part: requires door serial number to order*
Hardware listed below

1071632-1Z01 BRACKET ASSY, HORIZ SEAL,LH
*Configured part: requires door serial number to order*
Hardware listed below

**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>5550286-0Z01</td>
<td>HFSMS, M8-1.25X20 CL8.8 ZN</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>01900816</td>
<td>BSCSF,M8-1.25 X 16,T40,ZN</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>5550295-0Z01</td>
<td>RIV-NUT, M8-1.25, AH54T-8125-3.8</td>
<td>12</td>
</tr>
<tr>
<td>1071632-1Z01</td>
<td>5550286-0Z01</td>
<td>HFSMS, M8-1.25X20 CL8.8 ZN</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>01900816</td>
<td>BSCSF,M8-1.25 X 16,T40,ZN</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>5550295-0Z01</td>
<td>RIV-NUT, M8-1.25, AH54T-8125-3.8</td>
<td>10</td>
</tr>
<tr>
<td>1071632-2Z01</td>
<td>5550286-0Z01</td>
<td>HFSMS, M8-1.25X20 CL8.8 ZN</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>01900816</td>
<td>BSCSF,M8-1.25 X 16,T40,ZN</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>5550295-0Z01</td>
<td>RIV-NUT, M8-1.25, AH54T-8125-3.8</td>
<td>10</td>
</tr>
<tr>
<td>5550286-0Z01</td>
<td>01900816</td>
<td>RIV-NUT, M8-1.25, AH54T-8125-3.8</td>
<td>10</td>
</tr>
</tbody>
</table>
Side Column Assemblies all doors

1072035-IX ASSY,SC,STN-LP-S,LH
1072025-IX ASSY,SC,STN-LP-L,LH
Configured part: requires door serial number to order

Hardware listed below

1072057-1Z01 ASSY, COVER, STN-LP, LH
Includes as applicable; 1072056-1Z01 one piece (shown) or 1072053-1Z01 spliced
Hardware listed below

1072060-1Z01 ASSY, BASEPLATE, SSN-LP-L, LH
Configured part: requires door serial number to order

Hardware listed below

04010337 SC SEAL, 32.2/20X10MM

NOTE: drive side may be LH or RH.

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

Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1072025*</td>
<td>5550289-0204</td>
<td>BLIND RIVET FLUSH HEAD 0.19OD 0.33GP SS</td>
<td>16</td>
</tr>
<tr>
<td>1072057*</td>
<td>01900816</td>
<td>BSCSF, M8-1.25 X 16, T40, ZN</td>
<td>15</td>
</tr>
<tr>
<td>1072060*</td>
<td>5550301-0201</td>
<td>HFSMS, M8-1.25X8 CL10.9 ZN</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>5550296-0201</td>
<td>RIV-NUT, M8-1.25, AH647-8125-7.9</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>01300530</td>
<td>SCREW, M10 X 30, DIN 963-4.8</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>01270060</td>
<td>NUT, M10 HEX, DIN 934-8 ZN</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 20, T40, ZN</td>
<td>3</td>
</tr>
</tbody>
</table>

04010337 SC SEAL, 32.2/20X10MM

1072057-2Z01 ASSY, COVER, STN-LP, RH
Includes as applicable; 1072056-2Z01 one piece or 1072053-2Z01 spliced (shown)

Hardware listed below

0004530 GROMMET 1 X 1 3/4 OD
Cables and Connectors  

_**all doors**_

- **00142166** CABLE, REMOTE DISPLAY, 15M
- **1210801-08** CABLE, 6 COND, M8 SOCKET TO FLYING LEADS, 1
- **00142016** CABLE, 16 GA, 4 COND, SHIELD, SEOOW, 600V, 90C
- **1210595-0A** CABLE, 16GA, 4C SHIELD, SEOOW, 600V, 90C, 264"
- **1210595-0B** CABLE, 16GA, 4C SHIELD, SEOOW, 600V, 90C, 384"
- **1210595-0X** CABLE, 16GA, 4C SHIELD, SEOOW, 600V, 90C, VAR
- **00142017** CABLE, 18 GA, 2 COND, NON-SH, SEOOW, 600V, 90C
- **1210596-0A** CABLE, 18GA, 2C NON-SH, SEOOW, 600V, 90C, 264"
- **1210596-0B** CABLE, 18GA, 2C NON-SH, SEOOW, 600V, 90C, 384"
- **1210596-0X** CABLE, 18GA, 2C NON-SH, SEOOW, 600V, 90C, VAR
- **00142165** ASSY, CABLE, REMOTE DISPLAY
- **08092680** END, CABLE COVER, M6X22, 5.5MM
# Drive Shaft, Non-Drive Side

*all doors*

**NOTE:** drive side may be LH or RH. RH 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>1072031-0Z01</td>
<td>01180525</td>
<td>M8-1.25 X 25 Socket Head Cap Screw</td>
<td>6</td>
</tr>
<tr>
<td>1072029-0Z01</td>
<td>01260274</td>
<td>HHCS,M8X20,DIN 933 - 8.8 ZN, Screw</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>01080030</td>
<td>WASHER,M8,LOCK,HIGH COLLAR,DIN 7980,STL ZN</td>
<td>4</td>
</tr>
<tr>
<td>1072031-0Z01</td>
<td>01180525</td>
<td>M8-1.25 X 25 Socket Head Cap Screw</td>
<td>6</td>
</tr>
<tr>
<td>1072029-0Z01</td>
<td>01260274</td>
<td>HHCS,M8X20,DIN 933 - 8.8 ZN, Screw</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>01080030</td>
<td>WASHER,M8,LOCK,HIGH COLLAR,DIN 7980,STL ZN</td>
<td>4</td>
</tr>
<tr>
<td>1072028-0Z01</td>
<td>01531036</td>
<td>KEY,10X8X36,DIN 6885 A C45K</td>
<td>6</td>
</tr>
<tr>
<td>1072029-0Z01</td>
<td>01340150</td>
<td>SHIM RING,35X45X2, DIN 988 PS</td>
<td>2</td>
</tr>
<tr>
<td>205533</td>
<td>5550278-0Z01</td>
<td>HFSM5, M8-1.25X20 CL10.9 ZN</td>
<td>5</td>
</tr>
<tr>
<td>1072029-0Z01</td>
<td>01260274</td>
<td>HHCS,M8X20,DIN 933 - 8.8 ZN, Screw</td>
<td>4</td>
</tr>
</tbody>
</table>
**Drive Shaft, Drive Side** *all doors*

- **1072028-0Z01** WLDMT, LINE SHAFT, SSN-LP-L
- **1072038-0Z01** WLDMT, LINE SHAFT, SSN-LP-S

*Configured part: requires door serial number to order*

**1072032-0Z01** SHAFT COUPLER, SSN-LP-L, DRIVE SIDE

*Hardware listed below*

**1072030-0Z01** SHAFT, DRIVE SIDE, SSN-LP-L

- **01531036** KEY, 10X8X36, DIN 6885 A C45K
  - Qty: drive side = 3, non-drive side = 1

- **205533** PULLEY, HTD P64-8M-30, FLGD, D168
  - Qty: drive side = 1, non-drive side = 1

- **01340150** SHIM RING, 35X45X2, DIN 988 PS
  - Qty: drive side = 2, non-drive side = 2

- **1072106-0A01** ASSY, BEARING HOUSING, 2207
  - Hardware listed below

  *Bearing included*

- **WN018-A** SPACER, THRUST

- **5550278-0Z01** HFSMS, M8-1.25X20 CL10.9 ZN

---

**Hardware – Order Separately**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1072032-0Z01</td>
<td>01180525</td>
<td>M8-1.25 X 25 Socket Head Cap Screw</td>
<td>12</td>
</tr>
<tr>
<td>1072106-0A01</td>
<td>01260274</td>
<td>HHCS, M8X20, DIN 933 - 8.8 ZN, Screw</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>01080030</td>
<td>WASHER, M8, LOCK, HIGH COLLAR, DIN 7980, STL ZN</td>
<td>4</td>
</tr>
</tbody>
</table>

---

*NOTE: drive side may be LH or RH. LH drive shown.*
Door Panel Hinges *all doors*

**231111-X** HINGE, ALUMINUM, TOP, 151X65
Configured part: requires door serial number to order

**217502-02Z1** AXLE, HINGE, 98mm
**218504Z1** AXLE, HINGE, 133mm

**1070525** GROVED DOWEL PIN, SOLID, 3x18
**05250251** BUSHING, HINGE, 8 X 10 X 16 X 15
**21750521** SPACER, HINGE ROLLER

**205625** ROLLER, HINGE
**01335008** NUT, M8, NYLOCK

**231117-X** HINGE, ALUMINUM, WINDOW, 225mm X 65
Configured part: requires door serial number to order

**237602** GUIDE ROLLER

**231110-X** HINGE, ALUMINUM, BOTTOM, 151X65
Configured part: requires door serial number to order
# Drive Belt *all doors*

**243804Z4** IDLER PULLEY ASSY, SSN-L  
*Includes 243816, 243807*  
* Hardware listed below *

## Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>243804Z4</td>
<td>1260300</td>
<td>HHCS, M10X16, DIN 933-8.8 ZN</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>01901610</td>
<td>M10 PRESS NUT</td>
<td>2</td>
</tr>
<tr>
<td>243814Z4</td>
<td>01300530</td>
<td>SCREW, M10 X 30, DIN 963-4.8</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>01270060</td>
<td>NUT, M10 HEX, DIN 934-8 ZN</td>
<td>4</td>
</tr>
</tbody>
</table>

*NOTE: drive side may be LH or RH. LH drive shown.*
**Chain Hoist Assembly** *all doors*

1210840-1X ASSY,CHAIN HOIST,LH

*Configured part: requires door serial number to order*

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

**Spiral LP Owner’s Manual**  

**all doors**

**1071959-0201** PIVOT ASSY, CLAMP, SSN-L/STN-L, GALV  
Includes 1 on LH and 1 on RH  
Hardware listed below

**1071927-1** END BRACKET ASSY, STN-L, LH  
**1072115-1A01** ASSY, WLDT, END BRKT, STN-LP-S, LH  
Includes 1071960-1A, Hardware listed below

**1070663-0AX** BOTTOM PANEL ASSEMBLY, 30MM, SSN-S  
**1070663-0BX** BOTTOM PANEL ASSEMBLY, 30MM, SSN-S  
**1070667-0AX** BOTTOM PANEL ASSEMBLY, 30MM, STT-L  
**1070667-0BX** BOTTOM PANEL ASSEMBLY, 30MM, STT-L  
**1070668-0AX** BOTTOM PANEL ASSEMBLY, 20MM, STT-L, SSN-L  
**1070668-0BX** BOTTOM PANEL ASSEMBLY, 20MM, STT-L, SSN-L  
**1070668-0CX** BTM PNL ASSY, 20MM, STT-L/SSN-L, NON WRLS  
**Configured part: requires door serial number to order**

**04010085-04** SEAL, PANEL HINGE

**1071927-2** END BRACKET ASSY, STN-L, RH  
**1072115-2A01** ASSY, WLDT, END BRKT, STN-LP-S, RH  
Includes 1071960-2A, Hardware listed below

**1072184-1** ASSY, REVERSING EDGE, LH DRIVE, SSN  
**1072185-1** ASSY, REVERSING EDGE, FLAP EXTN, LH, SSN  
**Configured part: requires door serial number to order**

**1072184-2** ASSY, REVERSING EDGE, RH DRIVE, SSN  
**1072185-2** ASSY, REVERSING EDGE, FLAP EXTN, LH, SSN  
**Configured part: requires door serial number to order**

**1072017-0A** ASSY, TST BLOCKING STRIP  
Hardware listed below

---

**NOTE:** Serial number required to verify if door is Standard or XL  

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

<table>
<thead>
<tr>
<th>Hardware – Order Separately</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td>Hardware</td>
<td>Description</td>
</tr>
<tr>
<td>1071959-0201</td>
<td>01900816</td>
<td>BSCSF, MB-1.25 X 16, T40, ZN</td>
</tr>
<tr>
<td>1071927-X</td>
<td>01230008</td>
<td>NUT, M8, HEX, CAP, DIN 917 ZN</td>
</tr>
<tr>
<td>01160515</td>
<td></td>
<td>CARRAIGE BOLT, M8X45, DIN 603MU</td>
</tr>
<tr>
<td>1072017-0A</td>
<td>5550140-0201</td>
<td>FLAT WASHER, .38 IDX1.25 ODX, 13 STL ZN</td>
</tr>
<tr>
<td>01230008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5550140-0201</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Console Framework**  *all doors*

1072027-1X  ASSY, CONSOLE, SSN-LP-L, LH  
1072027-X  SET, CONSOLES, SSN-LP-L  

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

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1072027*</td>
<td>01260310</td>
<td>HHCS, M10X20, DIN 933-8.8 ZN</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 20, T40, ZN</td>
<td>4</td>
</tr>
</tbody>
</table>

01260310  
01900820
Motor and Encoder *all doors*

**1071027-0204** WIRELESS BRACKET ARM WITH WARNING TAG
Includes 1070678-0204, 2109
Hardware listed below

**1070960-0204** UPPER CORNER BRACKET WIRELESS ARM

**1070652-0A** JUNCTION BOX, HEAD CONSOLE, SPIRAL, 15M

---

**Part Number**

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1071027-0204</td>
<td>HHCS M4-0.7X16 GR5 ZN</td>
<td>4</td>
</tr>
<tr>
<td>5550057-0201</td>
<td>NUT, M4-0.7, HEX HEAD, ZINC, NYLOCK</td>
<td>4</td>
</tr>
<tr>
<td>5550264-0</td>
<td>RATCHET FASTENER, 16 X .04-.25, BLK NYLON</td>
<td>2</td>
</tr>
<tr>
<td>1070678-0204</td>
<td>HHCS, MBX20, DIN 933 - 8.8 ZN</td>
<td>6</td>
</tr>
<tr>
<td>121060110</td>
<td>HHCS, M6-1.0X14, DIN 933-8.8 ZN, 5593 PATCH</td>
<td>4</td>
</tr>
<tr>
<td>01270040</td>
<td>NUT, M6-1.0, HEX, DIN 934-8 ZN</td>
<td>4</td>
</tr>
<tr>
<td>0550317</td>
<td>SCREW, 10-24UNC x 1/2, PHILLIP TRUSS HEAD</td>
<td>2</td>
</tr>
</tbody>
</table>

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

* = multiple variations of part number. Use wildcard to search.
(Rytec parts representative)

---

00142017 CABLE, 16 GA, 4 COND SHIELD, SEDOW, 600V, 90C

00142016 CABLE, 18 GA, 2 COND NON-SH, SEDOW, 600V, 90C

01260274 ASSY, MOTOR, SSN-LP, LH

01260274 ASSY, MOTOR, SSN-LP, RH

Configured part: requires door serial number to order
Hardware listed below

00111188 INDUCTIVE SNSR, M12x1.0, 4MM GAP, 10-30DVC

1210782 PLATE, ADAPTER, ENCODER, FEIG
Hardware listed below

00141120 ENCODER, TST-PD XR W/ WIRLS, 60" ANT CABLE

---
Door Panels *L doors with Full Vision Panels*

Door 1072020

- **1071986-0X** For Door Assembly, LH Drive, PANEL/HINGE ASSY, STN-L
  
  *Configured part: requires door serial number to order*

- **04010170** SEAL SPIRAL DOOR TOP, L=37M
  
  *Configured part: requires door serial number to order*

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

- **1071022-0AX** ASSY, WNDW, LEXAN, STT-L, 30X151, CL-112
  
  **1071022-0BX** ASSY, WNDW, LEXAN, STT-L, 30X151, GY-713
  
  **1071022-0CX** ASSY, WNDW, LEXAN, STT-L, 30X151, BZ-109
  
  *Configured part: requires door serial number to order*

- **231848CZ4** WNDW ASSY, 30MMX225MM, HPG AL, PAINTED
  
  *Configured part: requires door serial number to order*

- **1070991-0AX** ASSY, WNDW, LEXAN, STT-L, 30X225, CL-112
  
  **1070991-0BX** ASSY, WNDW, LEXAN, STT-L, 30X225, GY-713
  
  **1070991-0CX** ASSY, WNDW, LEXAN, STT-L, 30X225, BZ-109
  
  *Configured part: requires door serial number to order*

- **1070841-0** WINDOW ASSY, HPG, 30MMX225MM COMPLETE
  
  *Configured part: requires door serial number to order*

- **1070991-0AX** ASSY, WNDW, LEXAN, STT-L, 30X225, CL-112
  
  **1070991-0BX** ASSY, WNDW, LEXAN, STT-L, 30X225, GY-713
  
  **1070991-0CX** ASSY, WNDW, LEXAN, STT-L, 30X225, BZ-109
  
  *Configured part: requires door serial number to order*

- **1071285-0** ASSY, RND VENT W/SPACERS, STT-L, 30X225
  
  **1071285-0Z04** ASSY, RND VENT W/SPACERS, STT-L, 30X225, PNT
  
  *Configured part: requires door serial number to order*

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

*LH drive shown.*

*X = multiple variations of part number (Rytec parts representative)*
Door Panels  
*L doors without Full Vision Panels*

Door 1072021

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

LH drive shown.

X = multiple variations of part number
(Rytec parts representative)
Door Panels **S doors with Full Vision Panels**

Door 1072022

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

\( X = \text{multiple variations of part number} \)

(Rytec parts representative)
Door Panels  

*S doors without Full Vision Panels*

Door 1072023

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

LH drive shown.  

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

---

1072064-X  PANEL ASSY, SSN-LP-S  
Configured part: requires door serial number to order

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>238833</td>
<td>PANEL ASSY, 30MM, SST-S</td>
</tr>
<tr>
<td>2388324</td>
<td>PNL ASSY, 30MM, SST-S, PAINTED</td>
</tr>
</tbody>
</table>

Configured part: requires door serial number to order

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>04010085-04</td>
<td>SEAL, PANEL HINGE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>232830</td>
<td>WINDOW ASSY, W/SPACERS, 30mm x 151mm, SST-S, SST-S/R, SSN-S</td>
</tr>
</tbody>
</table>

Configured part: requires door serial number to order

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1071281-0</td>
<td>ASSY, RND VENT W/SPACERS, SSX-S, 30X151</td>
</tr>
<tr>
<td>1071281-0Z04</td>
<td>ASSY, RND VENT W/SPACERS, SSX-S, 30X151, PNT</td>
</tr>
</tbody>
</table>

Configured part: requires door serial number to order

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1071021-0AX</td>
<td>ASSY, WNDW, LEXAN, SSX-S, 30X151, CL-112</td>
</tr>
<tr>
<td>1071021-0BX</td>
<td>ASSY, WNDW, LEXAN, SSX-S, 30X151, GY-713</td>
</tr>
<tr>
<td>1071021-0CX</td>
<td>ASSY, WNDW, LEXAN, SSX-S, 30X151, BZ-109</td>
</tr>
</tbody>
</table>

Configured part: requires door serial number to order

---

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

---

232830 WINDOW ASSY, W/SPACERS, 30mm x 151mm, SST-S, SST-S/R, SSN-S  
Configured part: requires door serial number to order

---

1071281-0 ASSY, RND VENT W/SPACERS, SSX-S, 30X151  
1071281-0Z04 ASSY, RND VENT W/SPACERS, SSX-S, 30X151, PNT  
Configured part: requires door serial number to order

---

1071021-0AX ASSY, WNDW, LEXAN, SSX-S, 30X151, CL-112  
1071021-0BX ASSY, WNDW, LEXAN, SSX-S, 30X151, GY-713  
1071021-0CX ASSY, WNDW, LEXAN, SSX-S, 30X151, BZ-109  
Configured part: requires door serial number to order
**Vertical Tracks** *all doors*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>236311</td>
<td>01260110</td>
<td>HHCS,M6-1.0X14,DIN 933-8.8 ZN,SS93 PATCH</td>
<td>2</td>
</tr>
<tr>
<td>236312</td>
<td>01260110</td>
<td>HHCS,M6-1.0X14,DIN 933-8.8 ZN,SS93 PATCH</td>
<td>2</td>
</tr>
<tr>
<td>1071425-0</td>
<td>5550286-0Z01</td>
<td>HFSMS, M8-1.25X20 CL.8.8 ZN</td>
<td>2</td>
</tr>
</tbody>
</table>

**Hardware listed below**

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

- **1071425** SPACER, VERTICAL TRACK  
  *Qty*: 9  
  Includes 217102, *Qty*: 2  
  *Hardware listed below*

- **237803-1** VERTICAL TRACK, ASSEMBLY, LH  
  *Qty*: 2 (One on each LH and RH sides)

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

**Configured part**: requires door serial number to order  
*Qty*: 2 (One on each LH and RH sides)
System 4 Controller and Accessories *all doors*

- **Remote Keypad with R/G LED, OCS**
- **00142000 System 4 Control Assy, Per Door**
  
  Configured part: requires door serial number to order

- **00142003 System 4 Control Box**

- **00142020 USB Drive**

- **00142015 Battery, Button Cell, CR2032, 3V Lithium**

- **00112023 Ferrite Filter, Small**
  
  Qty: 3

- **00112001 Ferrite Filter, Large**
  
  Qty: 2

- **1210590-0 Aerosol Can 12 Oz Paint, Rytec Silver**

- **1070360-0Z1 Plate, Door Panel Assy Service**
Remote Mobile Unit *all doors*

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

\( X = \text{multiple variations of part number}
\)

(Rytec parts representative)
Motor Override Gears *all doors*

- **1210799-1** MOTOR COVER MODIFICATION, SPIRAL LP, LH
- **1210799-2** MOTOR COVER MODIFICATION, SPIRAL LP, RH
*Configured part: requires door serial number to order*

**NOTE:** drive side may be LH or RH. LH drive shown.
Expansion Boards *all doors*

- **00142005** BOARD, COMM EXTENSION, SYS4, TST RFUX-COM-R
- **00142014** EXPANSION CARD WITH I/O & 2 CH LOOP
- **00142008** DISPLAY ONLY, SYS4
- **00122000** LOOP DETECTOR MODULE, 2 CHANNEL, SYS4
- **00142190** EXPANSION BOARD WITH VF DISPLAY NO I/O
- **00121045** RC RECEIVER, 24VDC AM, 2 CHANNEL
SPIRAL® LP-S/SP-S 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 FlexTec (“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, energy chain and cable, 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.

© Rytec Corporation 2021v