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
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The information contained in this manual will allow you to operate and maintain your Rytec Spiral® 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>Signal Word</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WARNING</strong></td>
<td>Warning indicates a hazardous situation which, if not avoided, could result in death or serious injury.</td>
</tr>
<tr>
<td><strong>CAUTION</strong></td>
<td>Caution indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.</td>
</tr>
<tr>
<td><strong>NOTICE</strong></td>
<td>Notice 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 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 sequence of lights that move 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 the RESET button is pressed to stop the door while it is opening**: 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 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.**

<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**

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.

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 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

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 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) 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).

LH drive side

RH drive side

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.

- 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

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**

- **ASSY, COVER, SIDE COLUMN, LH, STT-L**
- **ASSY, COVER, SIDE COLUMN, LH, STT-S**
- **ASSY, COVER, SIDE COLUMN, LH, SST-US**

Includes column, one piece (shown) or spliced, cover, one piece (shown) or spliced, seal, baseplate and CAN brackets (see page 20), vertical track (see page 31), brake release lever (see page 50), light curtains (see page 56), CAN cabling (see page 57).

**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>PN/Description</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSY, COVER*</td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 16, T40, ZN</td>
<td>v</td>
</tr>
<tr>
<td>1210738-0</td>
<td>01900820</td>
<td>DOME PLUG, 0.50 DIA HOLE, 0.25 MAX WALL, NYLON, BLK</td>
<td></td>
</tr>
</tbody>
</table>

* = varies based on height of door

**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 Assemblies - Baseplate Area *all doors*

<table>
<thead>
<tr>
<th>PN/Description</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASEPLATE</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, AHS4T-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>
<tr>
<td>1210866</td>
<td>5550300-0201</td>
<td>HFSMS, M8-1.25X12 CL10.9 ZN</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>1210870-0A</td>
<td>SPACER, ROUND</td>
<td>2</td>
</tr>
<tr>
<td>1210868</td>
<td>01900816</td>
<td>BSCSF, M8-1.25 x 16, T40, ZN</td>
<td>2</td>
</tr>
<tr>
<td>1210871/72</td>
<td>5550300-0201</td>
<td>HFSMS, M8-1.25X12 CL10.9 ZN</td>
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<tr>
<td></td>
<td>1210870-0A</td>
<td>SPACER, ROUND</td>
<td>1</td>
</tr>
</tbody>
</table>

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

- **STT-L** Transparent door slats, small
- **SST-L** Solid door slats, small
- **STT-S** Transparent door slats, large
- **SST-US** Solid door slats, extra large
Spreadsers and Seals 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>1071542-0Z01</td>
<td>01900820</td>
<td>BSCSF,M8-1.25 X 20,T40,ZN</td>
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<tr>
<td>01901508</td>
<td>BSCSF,M8-1.25 X 20,ZN</td>
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<tr>
<td>1071553-0X, 1071610-0X</td>
<td>01900820</td>
<td>BSCSF,M8-1.25 X 20,T40,ZN</td>
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<tr>
<td>1071606-0X, 1071614-0X</td>
<td>01900820</td>
<td>BSCSF,M8-1.25 X 20,ZN</td>
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<tr>
<td>CORNER BRACE, REAR SPREADER</td>
<td>01900820</td>
<td>BSCSF,M8-1.25 X 20,ZN</td>
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<tr>
<td>REAR SPREADER</td>
<td>01900820</td>
<td>BSCSF,M8-1.25 X 12,T40,ZN</td>
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<tr>
<td>237868</td>
<td>5550259-0Z01</td>
<td>HFSMS,M6-1.0x20mm,ZN</td>
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<tr>
<td>231833</td>
<td>5550259-0Z01</td>
<td>HFSMS,M6-1.0x20mm,ZN</td>
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<td>01900812</td>
<td>01900820</td>
<td>5550259-0Z01</td>
<td>01901508</td>
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L size doors
1071706-0X
FRONT SPREADER
1071704-0X
FRONT SPREADER ASSEMBLY
Configured part: requires door serial number to order

-S size doors
1071553-0X
FRONT SPREADER
Configured part: requires door serial number to order

-US size doors
1071606-0X
FRNT UPPER SPRDR ASSY
Configured part: requires door serial number to order

Spreaders and Seals

STT-S,-L
231833 SEAL ASSY, REAR HORIZONTAL,STT
Configured part: requires door serial number to order

-SST-L,-S,-US
237867 SEAL, REAR HORIZONTAL,SST
Configured part: requires door serial number to order

-US size doors
1071709-0A RACEWAY,NON-METALLIC,SPIRAL,L
1071709-0C RACEWAY,NON-METALLIC,SPIRAL,S
1071709-0B RACEWAY,NON-METALLIC,SPIRAL,US
Qty: 2

Hardware listed below
# Head Assembly Consoles

**STT-L (full vision slats, small size) doors**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1072396-X</td>
<td>ASSY, HEAD, B, STT-L</td>
<td></td>
</tr>
<tr>
<td>1071464-1B01</td>
<td>ASSEMBLY, CONSOLE, B, LH, STT-L, SST-L</td>
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</tr>
<tr>
<td>1071464-1B01</td>
<td>ASSEMBLY, CONSOLE, B, LH, STT-L, SST-L, RH DRV</td>
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</tr>
<tr>
<td>1071483-0B01</td>
<td>COVER, CONSOLE, TOP ACCESS, B, STT-L, SST-L</td>
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</tr>
<tr>
<td>1071467-1B01*</td>
<td>CONSOLE, OUTER, INSERT, B, LH, STT-L, SST-L</td>
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<tr>
<td>1071467-2B01*</td>
<td>CONSOLE, OUTER, INSERT, B, RH, STT-L, SST-L</td>
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<tr>
<td>1071464-2B01</td>
<td>ASSEMBLY, CONSOLE, B, RH, STT-L, SST-L</td>
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<tr>
<td>1071464-2B01</td>
<td>ASSEMBLY, CONSOLE, B, RH, STT-L, SST-L, RH DRV</td>
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<tr>
<td>1071487-1B01</td>
<td>CONSOLE, INNER, SPIRAL, B, LH, STT-L, SST-L</td>
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<tr>
<td>1071487-2B01</td>
<td>CONSOLE, INNER, SPIRAL, B, RH, STT-L, SST-L</td>
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<td>1071464-1B01</td>
<td>ASSEMBLY, CONSOLE, B, LH, STT-L, SST-L</td>
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<tr>
<td>1071464-1B01</td>
<td>ASSEMBLY, CONSOLE, B, LH, STT-L, SST-L, RH DRV</td>
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</tr>
<tr>
<td>1071483-0B01</td>
<td>COVER, CONSOLE, TOP ACCESS, B, STT-L, SST-L</td>
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</tr>
<tr>
<td>1071467-2B01*</td>
<td>CONSOLE, OUTER, INSERT, B, RH, STT-L, SST-L</td>
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</tbody>
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## 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>1072396-X</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1071464-1B01</td>
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<tr>
<td>1071464-1B01</td>
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<tr>
<td>1071483-0B01</td>
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<tr>
<td>1071467-1B01</td>
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<tr>
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## All consoles

**Non-drive side consoles**

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<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1071497-0B01</td>
<td>COVER, CONSOLE, SIDE ACCESS, B, STT-L, SST-L</td>
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<tr>
<td>1071546-02B1</td>
<td>COVER, CONSOLE, NON-DRIVE SIDE</td>
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</table>

**Drive side consoles**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1071546-0Z01</td>
<td>COVER, CONSOLE, NON-DRIVE SIDE</td>
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</tr>
</tbody>
</table>

## All parts are configured parts:

require door serial number to order

* = see page 29 for Prewire version of this part
Head Assembly Consoles  
*SST-L (solid slats, small size) doors*

**Consoles**
- 1072397-X
  - ASSY, HEAD, B, SST-L
- 1071464-1B01
  - ASSEMBLY, CONSOLE, B, LH, STT-L, SST-L
  - HARDWARE LISTED BELOW
- 1071483-0B01
  - COVER, CONSOLE, TOP ACCESS, B, STT-L, SST-L
  - Hardware listed below

**Non-drive side consoles**
- 1071497-0B01
  - COVER, CONSOLE, SIDE ACCESS, B, STT-L, SST-L
  - Hardware listed below
- 1071456-0201
  - COVER, CONSOLE, NON-DRIVE SIDE
  - Hardware listed below

**Drive side consoles**
- 1071482-1B01*
  - COVER, BELT GUARD, B, LH, STT-L, SST-L
  - Hardware listed below
- 1071482-2B01*
  - COVER, BELT GUARD, B, RH, STT-L, SST-L
  - Hardware listed below

**All consoles**
- 1071487-1B01
  - CONSOLE, INNER, SPIRAL, B, LH, STT-L, SST-L
  - INCLUDES SPIRAL TRACKS
  - Hardware listed below
- 1071487-2B01
  - CONSOLE, INNER, SPIRAL, B, RH, STT-L, SST-L
  - INCLUDES SPIRAL TRACKS
  - Hardware listed below

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

**Hardware – Order Separately**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consoles</td>
<td>01260310</td>
<td>HHCS, M10X20, DIN 933-8.8 ZN</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>01060043</td>
<td>WASHER, 10.5mm FLAT, DIN 125A ZN</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>5550304-0201</td>
<td>HHCS, MB1.25 STL</td>
<td>5</td>
</tr>
<tr>
<td>1070963-X</td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 20, T40, ZN</td>
<td>3</td>
</tr>
<tr>
<td>1071487-X</td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 20, T40, ZN</td>
<td>4</td>
</tr>
<tr>
<td>1071546-0201</td>
<td>01260274</td>
<td>HHCS, MBX20, DIN 933 - 8.8 ZN</td>
<td>2</td>
</tr>
<tr>
<td>1071483-0B01</td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 20, T40, ZN</td>
<td>2</td>
</tr>
<tr>
<td>1071497-0B01</td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 20, T40, ZN</td>
<td>3</td>
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<tr>
<td>1071546-0201</td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 20, T40, ZN</td>
<td>3</td>
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<tr>
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<td>01900820</td>
<td>BSCSF, M8-1.25 X 20, T40, ZN</td>
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<tr>
<td>01260110</td>
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<td>10260274</td>
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<td>01260310</td>
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<td>01260110</td>
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<td>01260274</td>
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<td>01060040</td>
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<tr>
<td>01260274</td>
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<td>5550304-0201</td>
</tr>
</tbody>
</table>
**Head Assembly Consoles** *STT-S (full vision slats, large size) doors*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1072398-X</td>
<td>ASSY, HEAD, D, STT-S</td>
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</tr>
<tr>
<td>1071470-1D01</td>
<td>ASSEMBLY, CONSOLE, D, LH, STT-S, SST-S</td>
<td>Hardware listed below</td>
<td></td>
</tr>
<tr>
<td>1071457-0101</td>
<td>CONSOLE, OUTER INSERT, D, LH, STT-S, SST-S</td>
<td>Hardware listed below</td>
<td></td>
</tr>
<tr>
<td>1071448-0D01</td>
<td>COVER, CONSOLE, TOP ACCESS, D, STT-S, SST-S</td>
<td>Hardware listed below</td>
<td></td>
</tr>
<tr>
<td>1071448-2D01</td>
<td>CONSOLE, INNER, SPIRAL, D, RH, STT-S, SST-S</td>
<td>Hardware listed below</td>
<td></td>
</tr>
<tr>
<td>1071448-2D01</td>
<td>CONSOLE, INNER, SPIRAL, D, RH, STT-S, SST-S, RH DRV</td>
<td>Hardware listed below</td>
<td></td>
</tr>
<tr>
<td>1071484-0D01</td>
<td>COVER, CONSOLE, FRONT, STT-S, SST-S, D-HEAD</td>
<td>Hardware listed below</td>
<td></td>
</tr>
<tr>
<td>1071448-1D01</td>
<td>ASSEMBLY, CONSOLE, D, LH, STT-S, SST-S</td>
<td>Includes spiral tracks</td>
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</tr>
<tr>
<td>1071481-0D01</td>
<td>ASSY, BULKHEAD, INSERT, D</td>
<td>Hardware listed below</td>
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</tr>
<tr>
<td>1071543-0Z01</td>
<td>COVER, CONSOLE, NON-DRIVE SIDE</td>
<td>Hardware listed below</td>
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</tr>
<tr>
<td>1071545-0D01</td>
<td>COVER, CONSOLE, FRONT, STT-S, SST-S, D-HEAD</td>
<td>Hardware listed below</td>
<td></td>
</tr>
<tr>
<td>1070963-X</td>
<td>UPPER CORNER BRACKET</td>
<td>Hardware listed below</td>
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</table>

**Drive side consoles**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1071470-1D01</td>
<td>ASSEMBLY, CONSOLE, D, LH, STT-S, SST-S</td>
<td>Hardware listed below</td>
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</tr>
<tr>
<td>1071457-0101</td>
<td>CONSOLE, OUTER INSERT, D, LH, STT-S, SST-S</td>
<td>Hardware listed below</td>
<td></td>
</tr>
<tr>
<td>1071448-0D01</td>
<td>COVER, CONSOLE, TOP ACCESS, D, STT-S, SST-S</td>
<td>Hardware listed below</td>
<td></td>
</tr>
<tr>
<td>1071448-2D01</td>
<td>CONSOLE, INNER, SPIRAL, D, RH, STT-S, SST-S</td>
<td>Hardware listed below</td>
<td></td>
</tr>
<tr>
<td>1071484-0D01</td>
<td>COVER, CONSOLE, TOP ACCESS, D, STT-S, SST-S</td>
<td>Hardware listed below</td>
<td></td>
</tr>
<tr>
<td>1071481-0D01</td>
<td>ASSY, BULKHEAD, INSERT, D</td>
<td>Hardware listed below</td>
<td></td>
</tr>
<tr>
<td>1071543-0Z01</td>
<td>COVER, CONSOLE, NON-DRIVE SIDE</td>
<td>Hardware listed below</td>
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<tr>
<td>1071545-0D01</td>
<td>COVER, CONSOLE, FRONT, STT-S, SST-S, D-HEAD</td>
<td>Hardware listed below</td>
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</tr>
<tr>
<td>1070963-X</td>
<td>UPPER CORNER BRACKET</td>
<td>Hardware listed below</td>
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</table>

**Non-drive side consoles**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>1071470-2D01</td>
<td>ASSEMBLY, CONSOLE, D, RH, STT-S, SST-S</td>
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<tr>
<td>1071457-0101</td>
<td>CONSOLE, OUTER INSERT, D, LH, STT-S, SST-S</td>
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<tr>
<td>1071448-2D01</td>
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<td></td>
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<tr>
<td>1071448-2D01</td>
<td>CONSOLE, INNER, SPIRAL, D, RH, STT-S, SST-S, RH DRV</td>
<td>Hardware listed below</td>
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<tr>
<td>1071484-0D01</td>
<td>COVER, CONSOLE, TOP ACCESS, D, STT-S, SST-S</td>
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<tr>
<td>1071481-0D01</td>
<td>ASSY, BULKHEAD, INSERT, D</td>
<td>Hardware listed below</td>
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<tr>
<td>1071543-0Z01</td>
<td>COVER, CONSOLE, NON-DRIVE SIDE</td>
<td>Hardware listed below</td>
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<tr>
<td>1071545-0D01</td>
<td>COVER, CONSOLE, FRONT, STT-S, SST-S, D-HEAD</td>
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<tr>
<td>1070963-X</td>
<td>UPPER CORNER BRACKET</td>
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**Hardware – Order Separately**

<table>
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<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
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<td>ASSEMBLY, CONSOLE, D, LH, STT-S, SST-S</td>
<td>Hardware listed below</td>
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</tr>
<tr>
<td>1071457-0101</td>
<td>CONSOLE, OUTER INSERT, D, LH, STT-S, SST-S</td>
<td>Hardware listed below</td>
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<tr>
<td>1071448-0D01</td>
<td>COVER, CONSOLE, TOP ACCESS, D, STT-S, SST-S</td>
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<tr>
<td>1071448-2D01</td>
<td>CONSOLE, INNER, SPIRAL, D, RH, STT-S, SST-S</td>
<td>Hardware listed below</td>
<td></td>
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</tbody>
</table>

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

* = see page 30 for Prewire version of this part*
# Head Assembly Consoles

**SST-S (solid slats, large size) doors**

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
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<tbody>
<tr>
<td>01260310</td>
<td>HHCS, M10x20, DIN 933-8.8 ZN</td>
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</tr>
<tr>
<td>01060043</td>
<td>WASHER, 10.5mm FLAT, DIN 125A ZN</td>
<td>5</td>
</tr>
<tr>
<td>5550304-0201</td>
<td>HWNSTP MB-1.25 STL</td>
<td>5</td>
</tr>
<tr>
<td>1071543-0201</td>
<td>BKT, WALL MOUNT, CONSOLE</td>
<td>Hardware listed below</td>
</tr>
<tr>
<td>1071484-0D01</td>
<td>COVER, CONSOLE, TOP ACCESS, D, STT-S SST-S</td>
<td>Hardware listed below</td>
</tr>
<tr>
<td>1071483-0D01</td>
<td>COVER, CONSOLE, TOP ACCESS, D, RH, STT-S SST-S</td>
<td>Hardware listed below</td>
</tr>
<tr>
<td>1071473-0D01*</td>
<td>COVER, CONSOLE, FRONT, STT-S, SST-S, D-HEAD</td>
<td>Hardware listed below</td>
</tr>
<tr>
<td>1071481-0D01*</td>
<td>ASSEMBLY, BULKHEAD, INSERT, D</td>
<td>Hardware listed below</td>
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<tr>
<td>1071470-1D01</td>
<td>ASSEMBLY, CONSOLE, D, LH, STT-S SST-S</td>
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<tr>
<td>1071470-1DR01</td>
<td>ASSEMBLY, CONSOLE, D, LH, STT-S SST-S, RH DRV</td>
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<tr>
<td>1071470-2D01</td>
<td>ASSEMBLY, CONSOLE, D, RH, STT-S SST-S</td>
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<td>1071470-2DR01</td>
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<tr>
<td>1071546-0Z01</td>
<td>COVER, CONSOLE, NON-DRIVE SIDE</td>
<td>Hardware listed below</td>
</tr>
</tbody>
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## Drive side consoles

**require door serial number to order**

* = see page 30 for Prewire version of this part

## Non-drive side consoles

Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware Description</th>
<th>Qty</th>
</tr>
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<tbody>
<tr>
<td>01900820</td>
<td>BSCSF, MB-1.25 X 20, T40, ZN</td>
<td>4</td>
</tr>
<tr>
<td>01901508</td>
<td>NUT, MB FLANGED</td>
<td>4</td>
</tr>
<tr>
<td>1071543-0201</td>
<td>HHCS, MK30, DIN 933 - 8.8 ZN</td>
<td>4</td>
</tr>
<tr>
<td>01900820</td>
<td>BSCSF, MB-1.25 X 20, T40, ZN</td>
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<td>1071483-0D01</td>
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<td>1071456-0D01</td>
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<tr>
<td>01901508</td>
<td>NUT, MB FLANGED</td>
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<tr>
<td>1070963-X</td>
<td>BSCSF, MB-1.25 X 20, T40, ZN</td>
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</table>
# Head Assembly Consoles - US size doors

All consoles listed below

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>1071543-0201</td>
<td>ASSY, WALL MOUNT, CONSOLE</td>
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<tr>
<td>1071579-0201</td>
<td>COVER, CONSOLE, TOP ACCESS, C, SST-US</td>
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</table>

Hardware listed below

Drive side consoles

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>23530924</td>
<td>BRACKET, DAMPER SUPPORT</td>
</tr>
</tbody>
</table>

Hardware listed below

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

Hardware - Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1071568-1C01</td>
<td>ASSY, CONSOLE, C, LH, SST-US</td>
</tr>
<tr>
<td>1071568-1CR01</td>
<td>ASSY, CONSOLE, C, LH, SST-US, RH DRV</td>
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<tr>
<td>1071568-2C01</td>
<td>ASSY, CONSOLE, C, RH, SST-US</td>
</tr>
<tr>
<td>1071568-2CR01</td>
<td>ASSY, CONSOLE, C, RH, SST-US, RH DRV</td>
</tr>
</tbody>
</table>

Spiral LH Owner's Manual  •  1072467-0  •  Rev 01  •  05/22
### Head Assembly Console Brackets -L and -S size doors

#### All consoles -L size doors

- **ASSY, SUPPORT, BEARING, INSERT, B, LH, STT-L, SST-L**
  - Hardware listed below

- **ASSY, SUPPORT, BEARING, INSERT, B, RH, STT-L, SST-L**
  - Hardware listed below

#### Drive side consoles -L size doors

- **237865Z4**
  - MOUNTING PLATE, ASSY, MOTOR
  - Hardware listed below

- **1070402-024**
  - BRACKET, MOTOR BRAKE CABLE
  - Hardware listed below

- **1070419-0**
  - EDGE PROTECTOR X 161.08mm [6.34]

#### All consoles -S size doors

- **1071477-1D01**
  - ASSY, SUPPORT, BEARING, INSERT, D, LH, STT-S, SST-S
  - Hardware listed below

- **1071477-2D01**
  - ASSY, SUPPORT, BEARING, INSERT, D, RH, STT-S, SST-S
  - Hardware listed below

#### Drive side consoles -S size doors

- **237865Z4**
  - MOUNTING PLATE, ASSY, MOTOR
  - Hardware listed below

- **1070402-024**
  - BRACKET, MOTOR BRAKE CABLE
  - Hardware listed below

- **1070419-0**
  - EDGE PROTECTOR X 161.08mm [6.34]

### Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
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<tr>
<td>1070402-024</td>
<td>01900712</td>
<td>BSCSF,M6X12,T30,ZN,PRECOTE 80-8</td>
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<tr>
<td></td>
<td>01901506</td>
<td>NUT,M6 HEX FLANGE,DIN 6923-8ZN</td>
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<tr>
<td>237865Z4</td>
<td>01260320</td>
<td>HHCS, M10 X 25, DIN 933-8-8 ZN</td>
<td>4</td>
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<tr>
<td></td>
<td>01800080</td>
<td>WASHER, 10.5MM,DIN 9021A ZN</td>
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<tr>
<td></td>
<td>01260365</td>
<td>HHCS,M10X75,933-8-8 ZN</td>
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<td></td>
<td>01800080</td>
<td>WASHER, 10.5MM,DIN 9021A ZN</td>
<td>1</td>
</tr>
<tr>
<td>1071495-X</td>
<td>01260310</td>
<td>HHCS,M10X20,DIN 933-8-8 ZN</td>
<td>6</td>
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<tr>
<td>1071477-X</td>
<td>01060043</td>
<td>WASHER, 10.5mm FLAT, DIN 125A ZN</td>
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<td>01901510</td>
<td>NUT,M10 HEX FLANGE,DIN6923-8ZNN</td>
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<td>01800080</td>
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<tr>
<td></td>
<td>01750080</td>
<td>FHCS,M6X16,DIN 7991 10.9</td>
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<tr>
<td>1071479-X</td>
<td>01900820</td>
<td>BSCSF,M8-1.25 X 20,T40,ZN</td>
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<tr>
<td>0013013</td>
<td>0553104</td>
<td>HLNSF, 5/16-18, STL ZN</td>
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Head Assembly Console Brackets - US size doors

Hardware - Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
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<th>Qty</th>
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<tbody>
<tr>
<td>1071575-X</td>
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<td>HHCS, M10x20, DIN 933-8.8 ZN</td>
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<td>01060043</td>
<td>WASHER, 10.5mm FLAT, DIN 125A ZN</td>
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</tr>
<tr>
<td></td>
<td>01900820</td>
<td>NUT, M10 HEX FLANGE, DIN6923-8ZN</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>01900820</td>
<td>BSCSF, M8-1.25 X 20, T40, ZN</td>
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</tr>
<tr>
<td></td>
<td>01750080</td>
<td>FHSCS, M6x16, DIN 7991 10.9</td>
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<td>5550302-0Z01</td>
<td>HWNSTP M6-1.0 STL</td>
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<tr>
<td>235316Z4</td>
<td>01260274</td>
<td>HHCS, M8x20, DIN 933 - 8.8 ZN</td>
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<tr>
<td></td>
<td>01901508</td>
<td>NUT, M8 FLANGED</td>
<td>1</td>
</tr>
<tr>
<td>013013</td>
<td>0553104</td>
<td>HLNSF, 5/16-18, STL ZN</td>
<td>1</td>
</tr>
</tbody>
</table>

Hardware listed below:
- 1071575-1C01 ASSY, SUPPORT, BEARING, C, LH
- 1071576-1C01 SUPPORT, BEARING, INSERT, C, LH
- 235316Z4 SUPPORT, BUMPER

Hardware listed below:
- 1071575-2C01 ASSY, SUPPORT, BEARING, C, RH
- 1071576-2C01 SUPPORT, BEARING, INSERT, C, RH
- 235316Z4 SUPPORT, BUMPER

RUBBER BUMPER, 1.25 Dia x 1.25 Ht, 5/16-18 UNC STUD
Hardware listed below:
PREWIRE Variations to Console Covers and Brackets - L size doors

**LH doors**

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

1071653-1B01 ASSY, CONSOLE, B, PREWIRE, STT-L, SST-L, LH, LH DRIVE

1071654-1B01 COVER, DRIVE BELT, B, PREWIRE, STT-L, SST-L, LH

1071649-1A COVER, CONSOLE, FRONT, B, PREWIRE, STT-L, SST-L, LH, LH DRIVE

1210649-0 GROMMET, STRIP, SERRATED, 4.2mm-4.7mm

1071675-0D01 ASSY, C-BOX BKT, DAMPERS, D

Includes: 1071674-0C BKT, C-BOX MOUNTING, PREWIRE, D 1210600-0 RUBBER BUMPER, M4X0.7X10 THREADED STUD (4) 1071647-0Z01 ASSY, DAMPER BKT, INSERT Hardware listed below

1071653-2B01 ASSY, CONSOLE, B, PREWIRE, STT-L, SST-L, RH, RH DRIVE

1071654-2B01 COVER, DRIVE BELT, B, PREWIRE, STT-L, SST-L, RH

1071649-2B COVER, CONSOLE, FRONT, B, PREWIRE, STT-L, SST-L, LH, LH DRIVE

1071652-2B01 CONSOLE, OUTER, INSERT, B, PREWIRE, STT-L, SST-L, RH

1071654-1B01 COVER, DRIVE BELT, B, PREWIRE, STT-L, SST-L, LH

1071649-1B COVER, CONSOLE, FRONT, B, PREWIRE, STT-L, SST-L, LH, RH DRIVE

1071652-0D01 ASSY, OUTER BKT, DAMPERS, D

Includes: 1071651-0C BKT, OUTER MOUNTING, PREWIRE, D 1210603-0 RUBBER BUMPER, M5X0.8X12 TAPPED STUD (4) 1071647-0Z01 ASSY, DAMPER BKT, INSERT Hardware listed below

1071653-2BR01 ASSY, CONSOLE, B, PREWIRE, STT-L, SST-L, RH

1071654-2BR01 COVER, DRIVE BELT, B, PREWIRE, STT-L, SST-L, RH

1071649-2BR01 COVER, CONSOLE, FRONT, B, PREWIRE, STT-L, SST-L, RH

1071653-1BR01 ASSY, CONSOLE, B, PREWIRE, STT-L, SST-L, LH, RH DRIVE

1071654-1BR01 COVER, DRIVE BELT, B, PREWIRE, STT-L, SST-L, RH

1071649-1BR01 COVER, CONSOLE, FRONT, B, PREWIRE, STT-L, SST-L, RH

**RH doors**

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

1071653-2B01 ASSY, CONSOLE, B, PREWIRE, STT-L, SST-L, RH, RH DRIVE

1071654-2B01 COVER, DRIVE BELT, B, PREWIRE, STT-L, SST-L, RH

1071649-2B COVER, CONSOLE, FRONT, B, PREWIRE, STT-L, SST-L, RH

1071652-2B01 CONSOLE, OUTER, INSERT, B, PREWIRE, STT-L, SST-L, RH

1071654-1B01 COVER, DRIVE BELT, B, PREWIRE, STT-L, SST-L, LH

1071649-1B COVER, CONSOLE, FRONT, B, PREWIRE, STT-L, SST-L, RH, RH DRIVE

1071652-0D01 ASSY, OUTER BKT, DAMPERS, D

Includes: 1071651-0C BKT, OUTER MOUNTING, PREWIRE, D 1210603-0 RUBBER BUMPER, M5X0.8X12 TAPPED STUD (4) 1071647-0Z01 ASSY, DAMPER BKT, INSERT Hardware listed below

1071653-2BR01 ASSY, CONSOLE, B, PREWIRE, STT-L, SST-L, LH

1071654-2BR01 COVER, DRIVE BELT, B, PREWIRE, STT-L, SST-L, LH

1071649-2BR01 COVER, CONSOLE, FRONT, B, PREWIRE, STT-L, SST-L, LH

1071653-1BR01 ASSY, CONSOLE, B, PREWIRE, STT-L, SST-L, LH, RH DRIVE

1071654-1BR01 COVER, DRIVE BELT, B, PREWIRE, STT-L, SST-L, LH

1071649-1BR01 COVER, CONSOLE, FRONT, B, PREWIRE, STT-L, SST-L, LH

1071652-0D01 ASSY, OUTER BKT, DAMPERS, D

Includes: 1071651-0C BKT, OUTER MOUNTING, PREWIRE, D 1210603-0 RUBBER BUMPER, M5X0.8X12 TAPPED STUD (4) 1071647-0Z01 ASSY, DAMPER BKT, INSERT Hardware listed below

**Hardware – Order Separately**

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<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>01260310</td>
<td>HHCS, M10X20, DIN 933-8.8 ZN</td>
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<td></td>
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<tr>
<td>01060043</td>
<td>WASHER, 10.5mm FLAT, DIN 125A ZN</td>
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<td>5550304-0Z01</td>
<td>HWNSTP M8-1.25 STL</td>
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<tr>
<td>1071649-1A</td>
<td>BSCSF, MB-1.25 X 20, T40 ZN</td>
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<td>1071649-2B</td>
<td>BSCSF, MB-1.25 X 20, T40 ZN</td>
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<tr>
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<td>01260274</td>
<td>HHCS, M8X20, DIN 933-8.8 ZN</td>
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<tr>
<td>1071647-0Z01</td>
<td>ASSY, DAMPER BKT</td>
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<td>01900820</td>
<td>BSCSF, MB-1.25 X 20, T40 ZN</td>
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<td>01260274</td>
<td>HHCS, M8X20, DIN 933-8.8 ZN</td>
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<td>01900820</td>
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<td>555057-0Z01</td>
<td>HLNNI M4-0.7 GR8 ZN</td>
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<td>550195-0Z00</td>
<td>W. F. 25ID 0.75OD 0.067 NYL BLACK</td>
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</table>
PREWIRE Variations to Console Covers and Brackets - S size doors

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

RH doors
Non-drive side (left) console

LH doors
Non-drive side (right) console

Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware Description</th>
<th>Qty</th>
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<tbody>
<tr>
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<tr>
<td>01260310</td>
<td>HHCS, M10X20, DIN 933-8.8 ZN</td>
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<tr>
<td>01060043</td>
<td>WASHER, 10.5mm FLAT, DIN 125A ZN</td>
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<tr>
<td>5550304-0201</td>
<td>HNSTP MB-1.25 STL</td>
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<tr>
<td>1071815-X</td>
<td>BSCSF, MB-1.25 X 20, T40, ZN</td>
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<td>1071672-0201</td>
<td>BSCSF, MB-1.25 X 20, T40, ZN</td>
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<td>1071673-0001</td>
<td>BSCSF, MB-1.25 X 20, T40, ZN</td>
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<td>1071703-0001</td>
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<td>1071815-1D01</td>
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Vertical Tracks *all doors*

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<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>1071425-0203</td>
<td>5550286-0201</td>
<td>HFSMS, M8-1.25X20 CL8.8 2N</td>
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</tbody>
</table>

Hardware – Order Separately

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

- **1071425-0203** SPACER, VERTICAL TRACK
  
  *Qty: 9*

  Includes 21710221, *Qty: 2*

  Hardware listed below

- **237803-1X** VERTICAL TRACK, ASSEMBLY, LH
- **237803-2X** VERTICAL TRACK, ASSEMBLY, RH

  Configured part: requires door serial number to order

- **21710224** HOLDERS, GUIDE PROFILE

- **0555141** WASHER, FLAT .25" USS ZINC
- **0551050** #12-14 X .75", SELF TAPPING HEX HEAD SCREW

At bottom of track
Drive Shaft, Non-Drive Side all doors

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

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

| STT-L | Transparent door slats, small |
| SST-L | Solid door slats, small |
| SST-S | Transparent door slats, large |
| SST-US | Solid door slats, extra large |

### Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty</th>
</tr>
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<tbody>
<tr>
<td>237503-2-01Z1</td>
<td>M8-1.25 X 25 Socket Head Cap Screw</td>
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<tr>
<td>235503-2Z1</td>
<td>M8-1.25 X 25 Socket Head Cap Screw</td>
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<td>237859Z1</td>
<td>HHCS,M8X16,DIN 933 - 8.8 ZN</td>
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<td>WASHER,10MM,LOCK,SPLIT,ZN</td>
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<td>238856Z1</td>
<td>HHCS,M10X20,DIN 933-8.8 ZN</td>
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<td>WASHER,10MM,LOCK,SPLIT,ZN</td>
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<td>HWNSTP M10-1.5 STL</td>
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<td>HHCS,M8X30,DIN 933 - 8.8 ZN</td>
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<td>HWNSTP M8-1.25 STL</td>
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<tr>
<td>01180525</td>
<td>M8-1.25 X 25 Socket Head Cap Screw</td>
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<tr>
<td>01080030</td>
<td>WASHER,10MM,LOCK,SPLIT,ZN</td>
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<tr>
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<tr>
<td>5550304-0201</td>
<td>HWNSTP M8-1.25 STL</td>
<td>4</td>
</tr>
</tbody>
</table>

### Diagram

- **217706Z1** LINE SHAFT WELDMENT,"L" -L size doors
- **218704Z1** LINE SHAFT WELDMENT,"S" -S size doors
- **247701Z1** ASSY,CONNECTING SHAFT,US/R Configured part: requires door serial number to order
- **205533** PULLEY,HTD P64-8M-30,FLGD,D168 (-L size doors)
- **206513** PULLEY,HTD P77-8M-50 (-S size doors)
- **206513A** PULLEY,HTD P44-14M-50,FLGD (-US size doors) Qty: non-drive side = 1, drive side = 1
- **01340150** SHIM RING,35X45X2, DIN 988 PS (-L size doors)
- **01340230** SHIM RING,50X62X2,DIN 988 PS (-S, -US size doors)
- **237859Z1** CASE,BEARING WITH BEARING (-L size doors) Bearing included Hardware listed below
- **238856Z1** CASE,BEARING WITH BEARING (-S, -US size doors) Bearing included Hardware listed below
- **238879Z1** BEARING HOUSE FOR SST S KPL Bearing included Hardware listed below
- **01080040** WASHER,10MM,LOCK,SPLIT,ZN
- **01260030** HHCS,M8X30,DIN 933-8.8 ZN
- **01260310** HHCS, M10-1.5 x 30mm, STL ZN, DIN 933.8-8
- **01260282** HHCS,M8X30,DIN 933 - 8.8 ZN
- **5550304-0201** HWNSTP M8-1.25 STL
- **01180525** M8-1.25 X 25 Socket Head Cap Screw
- **01260272** HHCS,M8X16,DIN 933 - 8.8 ZN
- **01080040** WASHER,10MM,LOCK,SPLIT,ZN
- **01080030** HHCS,M8X16,DIN 933 - 8.8 ZN
- **01080040** WASHER,10MM,LOCK,SPLIT,ZN
- **01080030** HHCS,M8X16,DIN 933 - 8.8 ZN
- **01080040** WASHER,10MM,LOCK,SPLIT,ZN
- **01260030** HHCS, M10-1.5 x 30mm, STL ZN, DIN 933.8-8
- **01260282** HHCS,M8X30,DIN 933 - 8.8 ZN
- **5550304-0201** HWNSTP M8-1.25 STL
- **0021670** 01180525 01080030
- **01260272** 01080040
- **01260310** 01260282 5550304-0201
- **01260030** 5550303-0Z01
- **01080040** 01260272 01080040
- **01260282** 5550304-0201
- **0021670**
Drive Shaft, Drive Side all doors

![Diagram of drive shaft components]

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

- **S size doors**
  - 23887921 BEARING HOUSE FOR SST & KPL
  - Bearing included
  - Hardware listed below

- **US size doors**
  - 23582421 CASE, BEARING WITH BEARING
  - Bearing included
  - Hardware listed below

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

- **STT-L**: Transparent door slats, small
- **SST-L**: Solid door slats, small
- **STT-S**: Transparent door slats, large
- **SST-S**: Solid door slats, large
- **SST-US**: Solid door slats, extra large

### Hardware – Order Separately

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</table>
Drive Belt *all doors*

- **205533** PULLEY, HTD P64-8M-30, FLGD, D168
  (-L size doors)
- **206513** PULLEY, HTD P77-8M-50
  (-S size doors)
- **20651A** PULLEY, HTD P44-14M-50, FLGD
  (-US size doors)

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

- **205532** PULLEY, HTD P64-8M-30 (-L size doors)
  Secured by WN018-A SPACER, THRUST and
  5550206-0201 HFSMS, M1.25x20 CL8.8 ZN
- **206514** PULLEY, HTD P77-8M-50 (-S size doors)
  Secured by WN018-C FLAT WASHER, D60X9X5 THK and
  5550206-0201 HFSMS, M1.25x20 CL8.8 ZN

- **08310434** DRV BELT, HTD 1280-8M-30, L/R
  (-L size doors)
- **083104317** DRV BELT, HTD 1440-8M-50, S/R, D
  (-S size doors)

- **1071039-0** PULLEY, HTD P24-8M-30, FLGD (STT-L doors)
- **1071040-0** PULLEY, HTD P30-8M-30 (STT-L doors)
  Secured by WN018-A SPACER, THRUST and
  01260286 HHCS, M10 X 40, DIN 933-8.8 ZN
- **1071041-0** PULLEY, HTD P24-8M-50, FLGD (-S size doors)
  Secured by WN018-A SPACER, THRUST and
  01250595 HHCS, M10X50, DIN 933-8.8 ZN

- **1072214-0A** TOOTH BELT, 8M-30, PRE-CUT
  (-L size doors)
- **1072215-0A** TOOTH BELT, 8M-50, PRE-CUT
  (-S size doors)
- **1072216-0A** TOOTH BELT, 14M-50, PRE-CUT
  (-US size doors)

  *Configured part*: requires door serial number to order

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

  - STT-L: Transparent door slats, small
  - SST-L: Solid door slats, small
  - STT-S: Transparent door slats, large
  - SST-S: Solid door slats, large
  - SST-US: Solid door slats, extra large

- **237804Z4** PULLEY ASSY, TOOTH BELT, SST-L/R
  (-L size doors)
- **238803Z4** PULLEY ASSY, TOOTH BELT, SST-S/R
  (-S size doors)
- **235856Z4** PULLEY ASSY, TOOTH BELT, SST-USR
  (-US size doors)

  Hardware:
  - 01260286 HHCS M8 1.25X40 GR8.8 ZN 2
  - 01270050 HH DIN 934 M8 1.25 GR8 ZF 4
  - 01300518 SCREW, M10 X 50, DIN 963-4.8 2
  - 01270060 NUT, M10 HEX, DIN 934-8 ZN 4
Door Panels - L size doors with Full Vision panels (1072406 STT-L)

- **231851** PANEL/HINGE ASSY, STT-L
  Configured part: requires door serial number to order

- **231844** TTOP PNL ASSY, 30MM, STT-L
  Configured part: requires door serial number to order

- **04010085-04** SEAL, PANEL HINGE

- **1071022-0A** FINAL ASSY, PRESSED WINDOW, w/SEALS, 30MMX151MM, STT-L
  Configured part: requires door serial number to order

- **1071283-0A** VENT ASSY, 30MMX151MM, STT-L
  Configured part: requires door serial number to order

- **1070991-0A** ASSY, WINDOW, PRESSED LEXAN, STT-L, 30MMX225MM
  Configured part: requires door serial number to order

- **1071285-0** VENT ASSY, W/SPACERS, 30MM X 225MM, STT-L
  Configured part: requires door serial number to order

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

- **231853-1** HINGE CHAIN ASSY, 225X65, LH, STT-L
  Configured part: requires door serial number to order

- **231853-2** HINGE CHAIN ASSY, 225X65, RH, STT-L
  Configured part: requires door serial number to order

See page 42 for hinge and roller components.
Door Panels - L size doors with solid panels (1072407 SST-L)

237830 PANEL/HINGE ASSY, SST-L
Configured part: requires door serial number to order

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

237834 TOP PNL ASSY, 20MM, SST-L
Configured part: requires door serial number to order

04010085-04 SEAL, PANEL HINGE

237833 PANEL ASSY, 20MM, SST-L
Configured part: requires door serial number to order

1071279-0 VENT ASSY, W/SPACERS, 20mm X 151mm, SST-L, SST-L/R, SSN-L
Configured part: requires door serial number to order

1071006-0A ASSY, WINDOW, PRESSED LEXAN, SST-L/R, 20mmX151mm
Configured part: requires door serial number to order

See page 42 for hinge and roller components

231860-1 HINGE CHAIN ASSY, 151X65MM, LH (SSN-L doors)
Configured part: requires door serial number to order

231860-2 HINGE CHAIN ASSY, 151X65MM, RH (SSN-L doors)
Configured part: requires door serial number to order
Door Panels -S size doors with Full Vision panels (1072408 STT-S)

232831-01 TOP PNL ASSY, 40MM, STT-S
Configured part: requires door serial number to order

04010085-04 SEAL,PANEL HINGE

1071023-0A FINAL ASSY,PRESSED WINDOW, w/SEALS,40MMx151MM,STT-S
Configured part: requires door serial number to order

1071289-0 VENT ASSY,W/SPACERS, 40mm X 151mm,STT-S
Configured part: requires door serial number to order

1079993-0A ASSY, WINDOW, PRESSED LEXAN
40mmx225mm
Configured part: requires door serial number to order

1071287-0 VENT ASSY,W/SPACERS, 40mm X 225mm,STT-S
Configured part: requires door serial number to order

1070838-0 WINDOW ASSY, 40MMX225MM,HPG,COMPLETE
Configured part: requires door serial number to order

231853-1 HINGE CHAIN ASSY,STT-L,225X65,LH
Configured part: requires door serial number to order

231853-2 HINGE CHAIN ASSY,STT-L,225X65,RH
Configured part: requires door serial number to order

See page 42 for hinge and roller components
Door Panels - S size doors with solid panels (1072409 SST-S)

238830 PANEL/HINGE ASSY,SST-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,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

See page 42 for hinge and roller components

232826-1 HINGE CHAIN ASSY,151X100MM,LH
Configured part: requires door serial number to order

232826-2 HINGE CHAIN ASSY,151X100MM,RH
Configured part: requires door serial number to order
Door Panels - US size doors with solid panels (1072412 SST-US)

235806 PANEL/HINGE ASSY, SST-US
Configured part: requires door serial number to order

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

- 227857-01 TOP PNL ASSY, 40MM, SST-US
  Configured part: requires door serial number to order

- 04010085-04 SEAL, PANEL HINGE

- 227856-01 PANEL ASSY, 40MM, SST-US
  Configured part: requires door serial number to order

- 227858-03 WINDOW ASSY, W/SPACERS, 40MM, US
  Configured part: requires door serial number to order

- 227858-03-VENT VENT ASSY, W/SPACERS, 40MM X 151MM
  Configured part: requires door serial number to order

See page 42 for hinge and roller components.

1071015-1 HINGE CHAIN ASSY, 151x100MM, SST-US, LH
Configured part: requires door serial number to order

1071015-2 HINGE CHAIN ASSY, 151x100MM, SST-US, RH
Configured part: requires door serial number to order
Bottom Bar Assembly *all doors*

1070664 - BOTTOM PANEL ASSEMBLY, 40MM, SST-US
1070665 - BOTTOM PANEL ASSEMBLY, 40MM, STT-S
1070666 - BOTTOM PANEL ASSEMBLY, 40MM, SST-L
1070667 - BOTTOM PANEL ASSEMBLY, 40MM, STT-L
1070668 - BOTTOM PANEL ASSEMBLY, 40MM, SST-L

Configurations:
- 0A = LH door, wireless
- 0B = RN door, wireless
- 0C = non-wireless door

Configured part: requires door serial number to order

04010085-04 SEAL, PANEL HINGE

1072189-1 ASSY, REVERSING EDGE, LH DRIVE
1072189-2 ASSY, REVERSING EDGE, RH DRIVE
1072440-0 ASSY, EDGE, BOTTOM BAR (non-active edge)

Configured part: requires door serial number to order

1072191-1 ASSY, REVERSING EDGE, FLAP EXTN, LH DRIVE
1072191-2 ASSY, REVERSING EDGE, FLAP EXTN, RH DRIVE
1072441-0 ASSY, EDGE, BOTTOM BAR, EXT FLAP

Configured part: requires door serial number to order

1072017-0A ASSY, TST BLOCKING STRIP
1072017-0B ASSY, TST BLOCKING STRIP, EXTND FLAP

Standard part

Configured part: requires door serial number to order

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

STT-L Transparent door slats, small
SST-L Solid door slats, small
STT-S Transparent door slats, large
SST-S Solid door slats, large
SST-US Solid door slats, extra large
End brackets and splice blocks/clamps  all doors

**End Bracket Assortment**

**SST-L**
- 237831-121 END BRKT ASSY, SST-L, LH
  Includes splice block and clamp
- 237831-221 END BRKT ASSY, SST-L, RH
  Includes splice block and clamp

**SST-L**
- 237831-121 END BRKT ASSY, SST-L, LH
  Includes splice block and clamp
- 237831-221 END BRKT ASSY, SST-L, RH
  Includes splice block and clamp

**SST-S**
- 238841-121 END BRACKET ASSY, SST-S, LH
  Includes splice block and clamp
- 238841-221 END BRACKET ASSY, SST-S, RH
  Includes splice block and clamp

**STT-S**
- 1071000-1 ASSY, WELDED SPACER, END BRKT, STT-S, LH
  Hardware listed below
- 1071000-2 ASSY, WELDED SPACER, END BRKT, STT-S, RH
  Hardware listed below

**SST-US**
- 235831-121 END BRKT ASSY, SST-US, LH
  Hardware listed below
- 235831-221 END BRKT ASSY, SST-US, RH
  Hardware listed below

### Hardware – Order Separately

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<td>CARRIAGE BOLT, M10 X 40mm</td>
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**NOTE:** Part numbers vary based on door model.

- **STT-L** Transparent door slats, small
- **SST-L** Solid door slats, small
- **STT-S** Transparent door slats, large
- **SST-S** Solid door slats, large
- **SST-US** Solid door slats, extra large

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*RYTEC*

**Spiral and Spiral Prewire Owner’s Manual**
Door Panel Hinges *all doors*

**Top panel**

(SSS-L, STT-L, STT-S doors)
- 231828-1: Unpainted hinge assy, alum, top, 151x65, LH
- 231828-2: Unpainted hinge assy, alum, top, 151x65, RH

(SSS-S, STT-US doors)
- 232817-1: Unpainted hinge assy, alum, top, 151x100, LH
- 232817-2: Unpainted hinge assy, alum, top, 151x100, RH

**Middle panels**

(SSS-L, STT-L, STT-S doors)
- 231847-1: Unpainted hinge assy, alum, win, 151x65, LH
- 231847-2: Unpainted hinge assy, alum, win, 151x65, RH

(SSS-L doors)
- 231859-1: Unpainted hinge assy, alum, mid, 151x65, LH
- 231859-2: Unpainted hinge assy, alum, mid, 151x65, RH

(SSS-S, STT-US doors)
- 232815-1: Unpainted hinge assy, alum, win, 225x65, LH
- 232815-2: Unpainted hinge assy, alum, win, 225x65, RH

(SSS-US doors)
- 232824-1: Hinge assy, mid/win, 225x100, LH
- 232824-2: Hinge assy, mid/win, 225x100, RH

**Bottom panel**

(SSS-L, STT-L doors)
- 107095-1: Unpainted hinge assy, alum, bot, 151x65, LH
- 107095-2: Unpainted hinge assy, alum, bot, 151x65, RH

(SSS-S doors)
- 231827-1: Unpainted hinge assy, alum, bot, 151x65, LH
- 231827-2: Unpainted hinge assy, alum, bot, 151x65, RH

(SSS-US doors)
- 232816-1: Unpainted hinge assy, alum, bot, 151x100, LH
- 232816-2: Unpainted hinge assy, alum, bot, 151x100, RH

### Hardware: (2) 1900720
- BSCSF, M6X20, T30, ZN, PRECOTE 80-8

### Hardware: (2) 1160505
- Carriage bolt, M8X35, DIN 603MU
- (SST-L, STT-L, STT-S doors)

### Hardware: (SST-L, STT-S doors)
- NUT, M10-1.5, HEX, CAP, DIN 1587, ZN

---

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

- Top panel: Hinge assemblies include hinge, top axle, (2) bushings, (2) grooved dowel pins
- Middle panels: Hinge assemblies include hinge, axle, (2) bushings, (2) grooved dowel pins
- Bottom panel: Hinge assemblies include hinge, axle, (2) bushings, (2) grooved dowel pins

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

- **STT-L:** Transparent door slats, small
- **SST-L:** Solid door slats, small
- **STT-S:** Transparent door slats, large
- **SST-US:** Solid door slats, extra large
Front and Bottom Hood Covers - L size doors

Hardware – Order Separately

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<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>1071509-X</td>
<td>01901508</td>
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<td>1071518-0Z01</td>
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<td>BSCSF, MB-1.25 X 20, T40, ZN</td>
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<td>1071520-0Z01</td>
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</table>

All panels and spreader are configured parts: require door serial number to order
Top Hood Covers, Flat and Slanted -L size doors

Hardware – Order Separately

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<tr>
<th>Part Number</th>
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All panels and flashing are configured parts: require door serial number to order
Front and Bottom Hood Covers - S size doors

Hardware - Order Separately

<table>
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<th>Hardware</th>
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All panels, spreader and flashing are configured parts: require door serial number to order
Top Hood Covers, Flat and Slanted - S size doors

Hardware – Order Separately

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<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
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All panels and flashing are configured parts: require door serial number to order
Front and Bottom Hood Covers - US size doors

Hardware – Order Separately

<table>
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<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Description</th>
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<td>1071602-X</td>
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<td>BSCSF, MB-1.25 X 20, T40, ZN</td>
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<td>1071866-0Z01</td>
<td>01700100</td>
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</tbody>
</table>

All panels, spreader and flashing are configured parts: require door serial number to order
Top Hood Covers, Flat and Slanted - US size doors

Hardware – Order Separately

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<tr>
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<tr>
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All panels and flashing are configured parts: require door serial number to order.
Motor and Encoder  -L and -S size doors

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>
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</thead>
<tbody>
<tr>
<td>1070144</td>
<td>01750080</td>
<td>FHS5C, M6X16, DIN 7991 10.9</td>
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<tr>
<td>1070960-0Z01</td>
<td>5550246-0Z01</td>
<td>HHCS M4-0.7X16 GR5 ZN</td>
<td>4</td>
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<tr>
<td></td>
<td>5550057-0Z01</td>
<td>NUT, M4-0.7, HEX HEAD, ZINC, NYLOCK</td>
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</tr>
<tr>
<td>1070678-0Z0X</td>
<td>5550264-0</td>
<td>RATCHET FASTENER, 16 X .04-.25, BLK NYLON</td>
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</tr>
</tbody>
</table>

1070794-1X MOTOR, COMPLETE, 1.5Kw, LH MOTOR
1070794-2X MOTOR, COMPLETE, 1.5Kw, RH MOTOR

Includes motor, motor mounting plate and brake cable bracket (see page 27), pulley (see page 34), hardware. Configured part: requires door serial number to order.
Brake Components  -L and -S size doors

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>
</tr>
</thead>
<tbody>
<tr>
<td>1210775-0A</td>
<td>5550504-02Z01</td>
<td>PFMS, M4 X 0.70 X 12MM LG, ZINC</td>
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<tr>
<td>1071407-0</td>
<td>5550504-02Z01</td>
<td>PFMS, M4 X 0.70 X 12MM LG, ZINC</td>
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<td>1070978-0</td>
<td>5550507-02Z01</td>
<td>HLNNI M4-0.7 GR8 ZN</td>
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<td>01900050</td>
<td>08151080</td>
<td>CLAMP, CABLE STOP</td>
</tr>
<tr>
<td>1070401-0Z1</td>
<td>0804227</td>
<td>CABLE, BRAKE RELEASE</td>
</tr>
<tr>
<td>1070401-0Z1</td>
<td>1210488-0</td>
<td>SPRING, TENSION, 0.63 X 0.5 X 2.25</td>
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<tr>
<td>1070401-0Z1</td>
<td>1210775-0A</td>
<td>ASSY, RELEASE LEVER, DECAL, UNLOCK</td>
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<tr>
<td>1070978-0</td>
<td>1070978-0</td>
<td>BRAKE ASSY 24V, ABM 90 FRM, ZFB22SOH</td>
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<tr>
<td>1070401-0Z1</td>
<td>1070401-0Z1</td>
<td>BRAKE RELEASE LEVER STANDOFF, .375in HEX, M6</td>
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<tr>
<td>1070401-0Z1</td>
<td>1070401-0Z1</td>
<td>BRAKE RELEASE LEVER STANDOFF, 0.375in HEX, M6</td>
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<tr>
<td>1070401-0Z1</td>
<td>1070401-0Z1</td>
<td>BRAKE RELEASE LEVER STANDOFF, 0.375in HEX, M6</td>
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</tbody>
</table>

Hardware listed below.

1072213-0A ASSY, CABLE, BRAKE RELEASE, L/R
1072213-0B ASSY, CABLE, BRAKE RELEASE, S/R
1072213-0C ASSY, CABLE, BRAKE RELEASE, US/R
1072213-0F ASSY, CABLE, BRAKE RELEASE, REMOTE MOUNT

Configured part: requires door serial number to order.
Motor and Encoder - US size doors

1070819-0
ASSEMBLY, SEW MOTOR & MOUNTING BRACKETS,
RUS SPIRAL DOOR, SYS 4
Includes motor, bracket, encoder, wireless antenna, hardware.
Configured part: requires door serial number to order

1070793-0
ASSEMBLY, SEW DRS MOTOR WITH FEIG ENCODER,
SYSTEM 4, RUS SPIRAL DOOR
Includes motor, encoder, wireless antenna.
Configured part: requires door serial number to order

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>1070144</td>
<td>01750080</td>
<td>FHSCS,M6X16,DIN 7991 10.9</td>
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</tr>
<tr>
<td>1070960-0Z01</td>
<td>5550246-0Z01</td>
<td>HHCS M4-0.7X16 GR5 ZN</td>
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<tr>
<td>5550057-0Z01</td>
<td>5550264-0X</td>
<td>NUT, M4-0.7, HEX HEAD,ZINC, NYLOCK</td>
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<td>1070568-0Z01</td>
<td>5550246-0Z0101750080 5550057-0Z015550264-0</td>
<td>RATCHET FASTENER,.16 X .04-.25,BLK NYLON</td>
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<td>00142016</td>
<td>CABLE,18 GA,2 COND NON-SH,SEOOW,600V,90C</td>
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<tr>
<td>00142017</td>
<td>CABLE,16 GA,4 COND SHIELD,SEOOW,600V,90C</td>
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<td>00141120</td>
<td>ENCODER, FEIG, TST-PD, WIRELESS</td>
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<tr>
<td>00141134</td>
<td>ENCODER, FEIG, TST</td>
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00141120 ENCODER, FEIG, TST-PD, WIRELESS
Includes wireless antenna

00141134 ENCODER, FEIG, TST

1070960-0Z01
UPPER CORNER BRACKET WIRELESS ARM
Hardware listed below

1070678-0Z0X
BRACKET, ANTENNA MOUNTING, WIRELESS SPIRAL
Hardware listed below

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

00142017 CABLE, 16 GA, 4 COND SHIELD, SEOOW, 600V, 90C
Brake and Proximity Sensor Components  -US size doors

Hardware - Order Separately

<table>
<thead>
<tr>
<th>Part #</th>
<th>Hardware</th>
<th>Description</th>
<th>Qty</th>
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<td>HEX NUT, #10-24UNC, SS</td>
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<tr>
<td>0703338</td>
<td>S021649</td>
<td>SCREW, #10-24UNC X 3/8 LG, PHIL FLAT HD, 18-8 SS</td>
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<td>1210775-0A</td>
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<td>PFMS, M4 X 0.70 X 12MM LG, ZINC</td>
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<td>1071407-0</td>
<td>5550057-0Z01</td>
<td>HLNNI M4-0.7 GR8 ZN</td>
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<td>1210567-0D</td>
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<td>0703338</td>
<td>SENSOR BRACKET, CR, BRAKE SWITCH</td>
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<td>0550278</td>
<td>BRAKE RELEASE EYE BOLT, EURODRIVE, M8-1.25 x 40, STL Zn</td>
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<td>CABLE, BRAKE RELEASE</td>
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<td>CLAMP, CABLE STOP</td>
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<td>BRAKE ASSEMBLY KIT, SEW 24V DR MOTOR</td>
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</tbody>
</table>

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

- **1071539-0201**
  - ASSY, GUIDE PULLEY, SINGLE
  - Hardware:
    - 1260272 HHCS MB 16X18 DIN 933 6.8 ZN (4)
    - 01060042 WASHER, 8.4mm, DIN 125A, ZN (2)
    - 5550303-0201 HWNSTP M8-1.25 STL (4)

- **1071541-0201**
  - ASSY, GUIDE PULLEY, DOUBLE
  - Hardware:
    - 1260275 HHCS M10X18 DIN 933 8.8 ZN (4)
    - 01060043 WASHER, 10.5mm FLAT, DIN 125A, ZN (2)
    - 1260310 HHCS MB 12X20 DIN 933 8.8 ZN (2)

- **1071794-0**
  - ASSY, STRAP, SPRING, 40BLUE
  - Includes 1071789-0 STRAP, SPRING, CUT LGTH/HOLES
    - 1210724-0201 PLATE, CLAMP, 40mm WIDE STRAP (3)
    - 1260286 HHCS MB 1.25X40 GR8.8 ZN (2)
    - 1901608 MB 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

- **1071776-0201**
  - ASSY, TAB, SPRING

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

- **01900708**
  - BSCSF, M6X8, T30, ZN
  - Qty 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
- COLLAR, LOCKING

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

1180001-0B ASSY, MOBILE UNIT, POTTED, SPIRAL (*includes Service Bulletin 234*)

1060116-0 COVER, WIRELESS

00111193 BATTERY WIRELESS "D" W/TABS

01900720 BSCSF, M6X20, T30, ZN, PRECOTE 80-8

1070625-0 GASKET, WIRELESS COVER

1210110-0 LABEL, WIRELESS COVER, RY-WI
Spiral and Spiral Prewire Owner’s Manual

**SmartSurround™ and Advanced³ Light Curtains** all doors

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

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, 1210854-0A MOUNTING CHANNEL, LGCA and 1210869-0A LABEL, IDENTIFICATION, 01

Hardware – Order Separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Hardware Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>0551050</td>
<td>#12-14 X 3/4&quot;, SELF TAPPING HEX HEAD SCREW  P-CLIP, .313&quot;</td>
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<tr>
<td>1210877-0A</td>
<td>CONCRETE ANCHOR, #8 X 1.00</td>
<td>2</td>
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<tr>
<td>5550350-0A04</td>
<td>PFSMS #8X1.25 SS</td>
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<tr>
<td>5550353-0</td>
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</tr>
</tbody>
</table>

Hardware listed below

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

1210865-0C and 1210865-0D are mounted on the side columns (cover mounted) 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 *all doors*

**NOTE:** drive side may be LH or RH.
* = multiple variations of part number: use wildcard to search (Rytec parts representative)

<table>
<thead>
<tr>
<th>Hardware – Order Separately</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1072422-XX</td>
<td>5550300-02Z01</td>
<td>2</td>
</tr>
</tbody>
</table>

**NOTE:** part numbers vary based on door model
- STT-L: Transparent door slats, small
- SST-L: Solid door slats, small
- STT-S: Transparent door slats, large
- SST-S: Solid door slats, large
- SST-US: Solid door slats, extra large

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**Drive side console**

1. **1072422-** BRACKET ASSY,CAN BOX,SPIRAL,REPEATER BOX
   - Includes 1210858-0B CAN BOX,REPEATER,4-CHANNEL and 1210861 HOLDER,MULTITUBE,.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)

2. **1072422-** BRACKET ASSY,CAN BOX,SPIRAL,DISTRIBUTION BOX
   - Includes 1210857-0B CAN BOX,DISTRIBUTION,4-CHANNEL and 1210861 HOLDER,MULTITUBE,.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)

3. **1210800-0A** CABLE,6 COND,M8 SOCKET TO M8 PLUG,9M
   - Connects to (optional) remote mounted BTA4 user terminal
   - **1210800-0B** CABLE,6 COND,M8 SOCKET TO M8 PLUG,0.3M
   - Connects to wall mounted (near) SmartSurround™
   - **1210800-0C** CABLE,6 COND,M8 SOCKET TO M8 PLUG,1.5M
   - Connects to CAN bus-enabled encoder (not yet in use)
   - **1210800-0D** CABLE,6 COND,M8 SOCKET TO M8 PLUG,2M
   - Connects to (optional) side column mounted BTA4 user terminal
   - **1210800-0E** CABLE,6 COND,M8 SOCKET TO M8 PLUG,2.7M
   - Connects to Advanced light curtain
   - **1210800-0F** CABLE,6 COND,M8 SOCKET TO M8 PLUG,15M
   - Connects to (optional) remote mounted BTA4 user terminal

4. **1210879-0A** CABLE ASSY,LABELED,M8,0.3M,01
   - Connects to side column mounted (front) SmartSurround™

5. **1210855-** CABLE,4 COND,M12 SOCKET TO M12 PLUG
   - Multiple lengths: requires door serial number to order

6. **1210856-** CABLE,4 COND,M12 SOCKET TO FLY LEAD
   - Multiple lengths: requires door serial number to order

7. **1210860-0A** JUMPER,0 OHM,M8 PLUG,6-PIN

8. **1210858-0A** CAN BOX,REPEATER,2-CHANNEL (standard, shown above)
   - **1210858-0B** CAN BOX,REPEATER,4-CHANNEL

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**Non-drive side baseplate**

1. **1210855** these cables connect CAN boxes and screw together

2. **1210856** Cable to controller

3. **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.

4. **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: 3  
  **00112001**  
  MAGNETIC FILTER, 26 MM FERRITE CORE  
  Qty: 2

- **1210590-0**  
  AEROSOL SPRAY CAN, 12 OZ, RC004 (SILVER)

- **1070360-021**  
User Terminals *all doors*

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

1210766-0A
FRAME, USER TERMINAL
Hardware listed below

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

**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>
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<tr>
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<td>5550057-0Z01</td>
<td>NUT, M4-0.7, HEX HEAD, LOCKING, NYLON INSERT, ZINC</td>
<td>4</td>
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</tbody>
</table>

01900820 5550351-0A01 5550057-0Z01
Expansion Boards *all doors*

- **00142225** EXTENSION 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® AND SPIRAL® PREWIRE 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 wearable 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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