CAR GATE EQUIPMENT

PANELS - GUIDES - CHAINS - DRIVE UNITS - CONTACTS
# Table of Contents

## Car Gate Equipment

### Car Gate Equipment Layouts
- Q Series ..............................................................................................................................................3
- P Series ...............................................................................................................................................4

### Controls - Gate iDRIVE VFD Control ..........................................................................................5

### Gate Panels .......................................................................................................................................10
- 2-Section Gate Panel Sheave .............................................................................................................11
- ReversingEdge ...................................................................................................................................12
- Web Straps ........................................................................................................................................17

### Gate Guide Rails ................................................................................................................................18
- Q Series Layout ....................................................................................................................................19
- P Series Layout ....................................................................................................................................20
- Gate Guide Rail Parts ..........................................................................................................................21
- Counterweight Rod .............................................................................................................................23
- Counterweights ....................................................................................................................................27
- Gate Guide Shoes ...............................................................................................................................29

### Gate Chains and Chain Rods
- Gate Chains ........................................................................................................................................32
- Chain Links .........................................................................................................................................33
- Chain Rods .........................................................................................................................................34

### Gate Drive Units and Motors
- Gate Drive Units ...............................................................................................................................35
- Gate Motors .........................................................................................................................................45
- Cross Drives ........................................................................................................................................46
- Sprocket and Bearing Units ................................................................................................................50

### Gate Contacts ....................................................................................................................................54

### Gate Limit Switches
- Next Generation Encoder ...................................................................................................................61
- Geared Limit Switches .........................................................................................................................68
- Rotary Limit Switches .........................................................................................................................71
General Description

COURION Power or Manually Operated Car Gate with Q Series Gate Guides and Drive Unit

COURION Q Series Car Gates can be retrofitted for COURION’s Next Generation iSYSTEM equipment that includes the iLEARN VFD Car Top Control (See CONTROLS Section of this Manual) and iSENSOR Encoder.

Parts Manual Sections

1  Cross Drive and Sprocket Units
2  Chains and Chain Rods
3  Gate Limit Switches
4  Gate Panels
5  Gate Guide Rails & Counterweights
6  Guide Shoes
7  Gate Drive Units and Motors
General Description

COURION Power or Manually Operated Car Gate with P Style Gate Guides and Operators.

COURION P Style Car Gates can be retrofitted for COURION’s Next Generation iSYSTEM equipment that includes a iLEARN VFD Car Top Control (See CONTROLS Section of this Manual) and iSENSOR Encoder.

Parts Manual Sections

1. Cross Drive and Sprocket Units
2. Chains and Chain Rods
3. Gate Limit Switches
4. Gate Panels
5. Gate Guide Rails & Counterweights
6. Guide Shoes
7. Gate Drive Units and Motors
Where Used
COURION Next Generation Freight Doors with Gate iSENSOR.g Encoder.
Requires Next Generation systems running iLEARN version 2.0 and iDRIVE version 2.03 software.

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>90-710500</td>
<td>Gate iDRIVE.g VFD Control</td>
</tr>
<tr>
<td>2</td>
<td>90-710600</td>
<td>Gate iDRIVE.g Expansion Module</td>
</tr>
<tr>
<td>3</td>
<td>90-713504</td>
<td>Contactor - Solid State</td>
</tr>
</tbody>
</table>

Features and Notes
The Gate iDRIVE.g VFD Control provides car-top variable frequency drive control to COURION's gate motors. The variable frequency technology utilized by the Gate iDRIVE.g guarantees the smooth and quiet operation of your car gate every time.

Started in May 2010. Replaces the Gate iDRIVE.plc
Used in conjunction with the Gate iSENSOR.g

Handed
- Yes  - No

If part is handed, you must specify Right or Left Hand.
## iSYSTEM VFD Controls

### 90-710500  Gate iDRIVE.g VFD Control

**Where Used**
COURION Gate iDRIVE.g

**Features and Notes**

Handed: Yes  No

### 90-710600  Gate iDRIVE.g Expansion Module

**Where Used**
COURION Gate iDRIVE.g

**Features and Notes**

Handed: Yes  No

### 90-713504  Contactor - Solid State

**Where Used**
COURION Gate iDRIVE.g and Gate iDRIVE.plc Controls

**Features and Notes**
Zero Crossover

Handed: Yes  No
Where Used

COURION Next Generation iSYSTEM with Gate iSENSOR.plc Encoder.

Requires Next Generation systems running iLEARN version 1.14 and iDRIVE version 1.04 software.

Sub Assemblies
(For additional details - see pages that follow)

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<tr>
<th>Item #</th>
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<th>Part Description</th>
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<tbody>
<tr>
<td>1</td>
<td>90-210205</td>
<td>Variable Frequency Drive</td>
</tr>
<tr>
<td>2</td>
<td>90-514501</td>
<td>CARE-C Power Supply</td>
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<tr>
<td>3</td>
<td>90-540001</td>
<td>Fuse - 1A</td>
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<tr>
<td>4</td>
<td>90-710510</td>
<td>Power Supply</td>
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<tr>
<td>5</td>
<td>90-711000</td>
<td>Vision 120 PLC</td>
</tr>
<tr>
<td>6</td>
<td>90-711500</td>
<td>Digital Input/Output Card</td>
</tr>
<tr>
<td>7</td>
<td>90-713504</td>
<td>Contactor - Solid State</td>
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<tr>
<td>8</td>
<td>90-713505</td>
<td>Time Delay Relay</td>
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<tr>
<td>9</td>
<td>90-837400</td>
<td>Fuse Terminal Block</td>
</tr>
<tr>
<td>10</td>
<td>e-1223</td>
<td>Relay Socket</td>
</tr>
</tbody>
</table>

Features and Notes

Replaced in May 2010 with the COURION Gate iDRIVE.g

If the Gate iDRIVE.plc is replaced with a Gate iDRIVE.g, then the Gate iSENSOR.plc must be replaced with a Gate iSENSOR.g.

Must specify FRONT or REAR Gate when ordering.
COURION Gate iDRIVE.plc

COURION’s CARE C Light Curtain is a non-contact light curtain with 32 infrared light beams that fill the hoistway opening from the floor to a height of 6’ (1.80m).

COURION Gate iDRIVE.plc

Used in connection with the Vision 120 PLC (Part #90-711000)
### 90-713504 - Contactor - Solid State

**Features and Notes**
COURION Gate iDRIVE.g and Gate iDRIVE.plc Controls

Zero Crossover

**Handed**
- Yes
- No

### 90-713505 - Time Delay Relay

**Features and Notes**
COURION GATE iDRIVE.plc

Used to delay start of Gate iDRIVE PLC until hoistway communications are established by the iLEARN Door Control.

**Handed**
- Yes
- No

### 90-837400 - Fuse Terminal Block

**Features and Notes**
COURION Traction Elevator Lift Control

30 amps 600V

**Handed**
- Yes
- No

### 90-893800 - Buzzer - 24VDC

**Features and Notes**
COURION Next Generation System with Gate iDRIVE.g or Gate iDRIVE.plc

**Handed**
- Yes
- No

### e-1223 - Relay Socket

**Features and Notes**
COURION "PLC" Door Controls and Gate iDRIVE.plc Gate Control

**Handed**
- Yes
- No
General Description

Fork-Lift Ran Into Your Car Gate?

Call COURION Today at (800) 533-5760.

All we need is the JOB NUMBER, JOB NAME, or JOB LOCATION to process your order.

Available Car Gate Panels for Courion, Security Fire Door, Harris Preble, and Guilbert Freight Elevator Door Systems. Available Car Gate Construction: Wire Mesh or Solid Panel construction. 6’ Tall or Full-Height. Available Car Gate Finishes: Factory Prime, Air Dry Enamel (color required), Powder Coat (color required), and all stainless construction.

All COURION Car Gate Panels come with a COURION Reversing Edge. Other non-contact reversing devices are available from COURION. Please see “Door Protection” Section of this Manual.

Parts Manual Sections

1  2-Section Sheave
2  Gate Reversing Edge
3  Web Straps
## 2-Section Sheaves

### 10-199600  Gate Sheave Assembly - 3"

**Where Used**  
COURION 2-Section and Ratio Car Gate Panels

**Features and Notes**

<table>
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<th>Handed</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

### 10-199900  Gate Sheave Assembly - 4"

**Where Used**  
COURION 2-Section and Ratio Car Gate Panel

**Features and Notes**

<table>
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<th>Handed</th>
<th>Yes</th>
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</tr>
</thead>
</table>
## Gate Reversing Edge

**Where Used**

COURION Power Operated Car Gates.

Also Available - Gate Reversing Edges for Hazardous Locations.

**Features and Notes**

Gate Reversing Edges are manufactured to the specific length of your Car Gate.

Please have your JOB NUMBER, JOB NAME, or JOB LOCATION when you call to order from COURION.

### Sub Assemblies

(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>07-600200</td>
<td>Contact Case Cover</td>
</tr>
<tr>
<td>2</td>
<td>07-600700</td>
<td>Insulator</td>
</tr>
<tr>
<td>3</td>
<td>07-689701</td>
<td>Trip Wire Spring</td>
</tr>
<tr>
<td>4</td>
<td>07-700025</td>
<td>SJO Cord Assembly (25')</td>
</tr>
<tr>
<td>5</td>
<td>07-990001</td>
<td>Swivel Reel Assembly</td>
</tr>
<tr>
<td>6</td>
<td>08-500300</td>
<td>Contact Lever Spring</td>
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<tr>
<td>7</td>
<td>09-102200</td>
<td>Rubber Bumper</td>
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<tr>
<td>8</td>
<td>11-204801</td>
<td>Contact Lever</td>
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<tr>
<td>9</td>
<td>20-006011</td>
<td>Neoprene</td>
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<tr>
<td>10</td>
<td>90-000500</td>
<td>Dead End Eye Bolt</td>
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<tr>
<td>11</td>
<td>90-807700</td>
<td>Nylon Bushing</td>
</tr>
<tr>
<td>12</td>
<td>90-875300</td>
<td>Reversing Edge Micro Switch</td>
</tr>
<tr>
<td>13</td>
<td>90-878500</td>
<td>Wire Clamp</td>
</tr>
<tr>
<td>14</td>
<td>90-887900</td>
<td>Trip Wire</td>
</tr>
</tbody>
</table>

**Handed**

- Yes
- No

If part is handed, you must specify Right or Left Hand.

(314) 533-5700 - (800) 533-5760 - sales@couriondoors.com - www.couriondoors.com
Gate Reversing Edge

07-600200  Contact Case Cover
Features and Notes
COURION Car Gate Reversing Edge Leading Edge Dead-End Switch Housing (#07-689801) and Leading Edge Live-End Switch Housing (#07-689901)

07-600700  Insulator
Features and Notes
COURION Car Gate Reversing Edge

07-689701  Trip Wire Spring
Features and Notes
COURION Car Gate Reversing Edge

07-689801  Leading Edge Dead-End Switch
Features and Notes
COURION Car Gate Reversing Edge. Includes Reversing Edge Housing (#07-600101), Cover (07-600200), Rubber Bumpers (#09-102200), and Dead End Eye Bolt (#90-000500).
Available in Stainless (Part #: 07-689801S)

07-689901  Leading Edge Live-End Switch
Features and Notes
COURION Car Gate Reversing Edge. Includes Reversing Edge Housing (#07-600102), Cover (07-600200), Rubber Bumpers (#09-102200), Insulator (#07-600700), Contact Lever Spring (#08-500300), Contact Lever (#11-204801), Nylon Bushings (#90-807700), and Reversing Edge Micro Switch (#90-875300).

07-700025  SJO Cord Assembly - 3 Wire (25')
Features and Notes
COURION Car Gate Reversing Edge with microswitch. If you have a Tape Switch Reversing Edge, you may need SJO Cord Assembly - 4 Wire (Part #90-815000).
This cable consists of three (3) 18GA Insulated wires

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Gate Reversing Edge

07-990001 Swivel Reel Assembly
Features and Notes
COURION Car Gate Reversing Edge with long travel and SJO Cord.

08-500300 Contact Lever Spring
Features and Notes
COURION “X” Series Interlocks and Car Gate Reversing Edge
Include (2) 1/4” Flat Washers and (1) 3/32 x 1/2 Cotter Pin

09-102200 Rubber Bumper
Features and Notes
COURION D Style Door Panels with Latch Bars, and Car Gate Reversing Edge

11-204801 Contact Lever
Features and Notes
COURION Car Gate Reversing Edge.
Include (2) Nylon Bushings (#90-807700), (1) #10-24 x 1/2 Socket Head Set Screw, (2) 1/4” Flat
Washers and (1) 3/32 x 1/2 Cotter Pin

20-006011 Neoprene
Features and Notes
COURION Car Gate Reversing Edge.
Neoprene is Cut to Length. Please have you JOB NUMBER, JOB NAME, or JOB LOCATION
when you call to order from COURION.

90-000500 Dead End Eye Bolt
Features and Notes
COURION Car Gate Reversing Edge and Freight Door Latch Bar.
Measures 1/4”-20 X 2-3/16”

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Gate Reversing Edge

90-807700  Nylon Bushing
Features and Notes
COURION Car Gate Reversing Edge

Handed ☐ Yes ☑ No

90-815000  SJO Cable - 4 Wire
Features and Notes
COURION Car Gates with Tape Switch Reversing Edges

Handed ☐ Yes ☑ No

90-854700  Latex Rubber Tubing
Features and Notes
COURION Car Gate Reversing Edge - Hazardous Conditions

Handed ☐ Yes ☑ No

90-854900  Rubber Hose
Features and Notes
COURION Car Gate Reversing Edge - Hazardous Conditions

Handed ☐ Yes ☑ No

90-875300  Reversing Edge Micro Switch
Features and Notes
COURION Car Gate Reversing Edge

Handed ☐ Yes ☑ No

90-878500  Wire Clamp
Features and Notes
COURION Car Gate Reversing Edge

Handed ☐ Yes ☑ No

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# Gate Reversing Edge

### 90-887900  Trip Wire

**Features and Notes**
COURION Car Gate Reversing Edge. Trip Wire is cut to length. Please have the JOB NUMBER, JOB NAME, or JOB LOCATION when you call to order from COURION.

Handed  
- Yes  
- No

### 90-960100  Nipple

**Features and Notes**
COURION Car Gate Pneumatic Reversing Edge - Hazardous Locations

### 90-982600  Reversing Edge Micro Switch - Hazardous Locations

**Features and Notes**
COURION Car Gate Pneumatic Reversing Edge - Hazardous Locations. Must be ordered as Normally Open (#90-982600) or Normally Closed (#90-982602)

Handed  
- Yes  
- No

### 90-990001  Retractable Reel

**Features and Notes**
COURION Swivel Reel Assembly. Include (3) 1/4-20 x 5/8" Round Head Machine Screws, (3) 1/4 Flat Washers, (3) 1/4 Split Lock Washers, and (3) 1/4-20 Hex Nuts

Handed  
- Yes  
- No

---

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### Web Straps

**09-800332**  
**Web Strap (32” Long)**

Where Used  
COURION Freight Doors and Car Gates  
Maximum Opening Height = 8’-1”  
Features and Notes  
Includes necessary mounting hardware.

Handed ○ Yes ○ No

**09-800356**  
**Web Strap (56” Long)**

Where Used  
COURION Freight Doors and Car Gates  
Maximum Opening Height = 10’-1”  
Features and Notes  
Includes necessary mounting hardware.

Handed ○ Yes ○ No

**09-800374**  
**Web Strap (74” Long)**

Where Used  
COURION Freight Doors and Car Gates  
Maximum Opening Height = 11’7”  
Features and Notes  
Includes necessary mounting hardware.

Handed ○ Yes ○ No

**09-801100**  
**Lift Up Plate**

Where Used  
COURION Freight Doors and Car Gates

Features and Notes

Handed ○ Yes ○ No

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Bent Gate Guide Rail?
Call Courion Today!

COURION manufactures two (2) basic styles of Gate Guide Rails. Please see the next few pages for a complete description of both types.

Q Style Gate Guide Rails Shown

The type and length of your Gate Guide Rails is job specific. Please call Courion with your JOB NUMBER, JOB NAME or JOB LOCATION to order Guide Rails.
Gate Guide Rails - Q Style

General Description

The Length of COURION’s Q Gate Columns are Job Specific. Please call COURION with your JOB NUMBER, JOB NAME, or JOB LOCATION to order new Q Gate Columns.

COURION Q Gate Columns are factory assembled. The Q Style Gate Column includes weights, chains, gate guides, and mounting brackets in one simple-to-install unit.

The type and length of your Gate Guide Rails is job specific. Please call Courion with your JOB NUMBER, JOB NAME or JOB LOCATION to order Guide Rails.

Include Mounting Hardware Kit #94-000701Q09 for Guide Rail Columns up to 9'-0” tall and #94-000701Q12 for Guide Rail Columns up to 12'-0” tall.

Parts Manual Sections

1  Counterweights
2  Cross Drive and Sprocket Units
3  Guide Rails
4  Gate Sprockets and Bearing Units
General Description

The Length of COURION's P Gate Guides are Job Specific. Please call COURION with you JOB NUMBER, JOB NAME, or JOB LOCATION to order new P Style Gate Guides.

Parts Manual Sections

1  Counterweights
2  Gate Guide Rails & Counterweights
3  Gate Sprockets and Bearing Units

Include Hardware Kit #94-000070
07-101700  Wainscot Floor Angle - Single Section Gate

Features and Notes
COURION P Style Single Section Power Car Gates
Include Hardware Kit #94-000100

Handed ☑ Yes ☐ No

07-101701  Wainscot Floor Angle - 2 Section Gate

Features and Notes
COURION P Style 2-Section Power Car Gates
Include Hardware Kit #94-000100

Handed ☑ Yes ☐ No

21-706000  Bumper Angle Assembly

Features and Notes
COURION Q Style Gate Guides
Available in stainless (Part #:21-706000S)

Handed ☑ Yes ☐ No

21-707500  Blocking Spacer

Features and Notes
COURION Q Style Gate Guides

Handed ☑ Yes ☐ No

21-707700  Blocking Wedge

Features and Notes
COURION Q Style Gate Guides

Handed ☑ Yes ☐ No

21-708022  Idler Assembly - Slow Gate Panel

Features and Notes
COURION Q Style 2-Section Car Gate

Handed ☑ Yes ☐ No

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94-000070  Gate Guide Hardware Kit

Features and Notes
COURION P Style Gate Guides

Handed  Yes  No

94-000100  Wainscot Floor Angle Hardware Kit

Features and Notes
COURION P Style Gate Guides

Handed  Yes  No

94-000701Q09  Gate Column (9’) Hardware Kit

Features and Notes
COURION Q Style Car Gates (9’ and under)

Handed  Yes  No

94-000701Q12  Gate Column (12’) Hardware Kit

Features and Notes
COURION Q Style Car Gates (12’ and under)

Handed  Yes  No
Where Used
COURION P Style Car Gates.

The Chain Connector Assembly (#07-105023) and Gate Contact Cam Assembly (#07-105024) replace the following obsolete items: Equalizer Bar (#07-105000), Safety Strap (#07-105150), and Gate Contact Cam Assembly (#07-108805). You must order both parts when replacing any of the obsolete items.

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
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<td>07-104900</td>
<td>Cable Chain Pin</td>
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<tr>
<td>2</td>
<td>07-105023</td>
<td>Chain Connector Assembly</td>
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<tr>
<td>3</td>
<td>07-105024</td>
<td>Gate Contact Cam Assembly</td>
</tr>
<tr>
<td>4</td>
<td>07-105101</td>
<td>Equalizer Bar Bolt</td>
</tr>
</tbody>
</table>

Features and Notes
The length of Car Gate Weight Rod can vary depending on your Job. Please have your JOB NUMBER, JOB NAME, or JOB LOCATION when ordering.
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Features and Notes</th>
<th>Handed Options</th>
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</thead>
<tbody>
<tr>
<td>07-103101</td>
<td>Gate Weight Shoe</td>
<td>COURION P Style Car Gate Weight Rod</td>
<td>Yes / No</td>
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<tr>
<td>07-104900</td>
<td>Cable Chain Pin</td>
<td>COURION P Style Car Gate Weight Rod, Measures 3/4&quot; x 2-11/16&quot;, Include (1) 3/8&quot; Flat Washer, (1) 3/32 x 3/4&quot; Cotter Pin</td>
<td>Yes / No</td>
</tr>
<tr>
<td>07-105000</td>
<td>Equalizer Bar - Obsolete</td>
<td>COURION P Style Car Gate Weight Rod, Replace with Chain Connector Assembly 07-105023 and Gate Gate Contact Cam Assembly 07-105024</td>
<td>Yes / No</td>
</tr>
<tr>
<td>07-105023</td>
<td>Chain Connector Assembly</td>
<td>COURION P Style Car Gate Weight Rod, Replaces Equalizer Bar 07-105000 and Safety Strap 07-105150, Include (2) 3/8&quot; Flat Washers, (2) 3/32 x 3/4&quot; Cotter Pins.</td>
<td>Yes / No</td>
</tr>
<tr>
<td>07-105024</td>
<td>Gate Contact Cam Assembly</td>
<td>COURION P Style Car Gate Weight Rod, Replaces Gate Contact Cam Assembly 07-108805, Include (2) 5/16-18 x 1-1/8&quot; Hex Bolts, and (2) 5/16&quot; Spring Lock Washers</td>
<td>Yes / No</td>
</tr>
<tr>
<td>07-105101</td>
<td>Equalizer Bar Bolt</td>
<td>COURION P Style Car Gate Weight Rod with Chain Connector Assembly #07-105023, and Gate Contact Cam Assembly 07-105024, Measures 1/2&quot; x 1-1/2&quot; Grade 8 Bolt</td>
<td>Yes / No</td>
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</tbody>
</table>
07-105102 Equalizer Bar Bolt

Features and Notes
COURION P Style Car Gate Weight Rod with Equalizer Bar #07-105000, Gate Contact Cam #07-108805, and Safety Strap #07-105150.

Measures 1/2" x 1-3/4" Grade 8 Bolt.
Include (1) 1/8 x 3/4 Cotter Pin and (1) 1/2" Spring Lock Washer

Handed ○ Yes  ○ No

07-105150 Safety Strap - Obsolete

Features and Notes
COURION P Style Car Gate Weight Rod

Replace with Chain Connector Assembly 07-105023 and Gate Gate Contact Cam Assembly 07-105024

Handed ○ Yes  ○ No

07-105300 Bushing

Features and Notes
COURION P Style Car Gate Weight Rod

Measures: 5/8" x 9/32"

Handed ○ Yes  ○ No

07-108805 Gate Contact Cam Assembly - Obsolete

Features and Notes
COURION P Style Car Gate Weight Rod

Replace with Chain Connector Assembly 07-105023 and Gate Gate Contact Cam Assembly 07-105024

Handed ○ Yes  ○ No

21-773500 Weight Rod

Features and Notes
COURION Q Style Gate Column Weight Stack

Handed ○ Yes  ○ No

21-774000 Weight Pick-Up Assembly

Features and Notes
COURION Q Style Gate Column Weight Stack

Handed ○ Yes  ○ No
Counterweight Parts

94-000310 Gate Counterweight Hardware Kit

Features and Notes
COURION P Style Car Gate Counterweights.

One (1) hardware kit required per four (4) weights.
Includes (4) 4-1/8” x 1-5/8” leather shims, (4) 4” x 1-1/2” Bottom Plates, (9) 1/4-20 x 1/2” Round Head Machine Screws, flat washers, and lock washers.

Handed ☐ Yes ☐ No
Parts Manual ☐ Yes ☐ No
Classification 1 Car Gate Equipment
Classification 2 Guide Rails
Classification 3 Counterweight Parts
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Weight Bearing</th>
<th>Handed</th>
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<tr>
<td>21-771000</td>
<td>Weight Bearing</td>
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<tr>
<td>21-771500</td>
<td>CAM Weight - 16.8 lbs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21-772000</td>
<td>Weight - 14.2 lbs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21-772800</td>
<td>Weight - 4.4 lbs.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Where Used**
- 21-771000: COURION Q Style Gate Column Weight Stack
- 21-771500: COURION Q Style Car Gate Counterweight
- 21-772000: COURION Q Style Gate Guide Counterweights
- 21-772800: COURION Q Style Gate Guide Counterweights

**Features and Notes**
- 21-771000: Handed Yes
- 21-771500: Handed Yes
- 21-772000: Handed Yes
- 21-772800: Handed Yes

2-3/4” x 8-1/4” x 2-1/2” CAM weight
## Counterweights

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Weight</th>
<th>Where Used</th>
<th>Features and Notes</th>
<th>Handed</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-773000</td>
<td>1.4 lbs.</td>
<td>COURION Q Style Gate Guide Counterweights</td>
<td>2-3/4” x 8-1/4” x 1/4”</td>
<td>Yes</td>
</tr>
<tr>
<td>90-847601</td>
<td>22.4 lbs.</td>
<td>Counterweight for COURION “P” Style Car Gates</td>
<td>2” x 10 x 3” lead weight</td>
<td>Yes</td>
</tr>
<tr>
<td>90-939500</td>
<td>15.6 lbs.</td>
<td>COURION Counterweights for “P” Style Car Gates</td>
<td>2” x 10 x 3” cast weight (Marked W-210-3)</td>
<td>Yes</td>
</tr>
<tr>
<td>90-940400</td>
<td>2.4 lbs.</td>
<td>Counterweight for COURION “P” Style Car Gates</td>
<td>2” x 10” x 1/2” cast weight (Marked W-210-5)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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Where Used

NEED A NEW PAIR OF SHOES?

COURION maintains a wide variety of Adjustable Guide Shoes, including the LF96 Guide Shoe with a low-friction bearing, self-lubricating surface.

Call Courion today to order a new set of Shoes. All you need is the

Features and Notes

The LF96 Door Shoe can be retrofitted to most hoistway doors and car gates.

The LF96 Guide Shoe is ambidextrous.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Part Description</th>
<th>Where Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>09-829201</td>
<td>Guide Shoe Assembly - #292</td>
<td>Generally used on heavy duty COURION Freight Doors and Car Gates. Includes one (1) Guide Shoe per pack.</td>
</tr>
<tr>
<td>09-829233</td>
<td>Guide Shoe Assembly Pack - #292</td>
<td>Generally used on heavy duty COURION Freight Doors and Car Gates. Includes two (2) Left Hand and 2 Right Hand Guide Shoes per pack.</td>
</tr>
<tr>
<td>09-829501</td>
<td>Guide Shoe Assembly - #295</td>
<td>COURION Freight Doors that currently have #295 Guide Shoes. Includes one (1) Guide Shoe per pack.</td>
</tr>
<tr>
<td>09-829601</td>
<td>Guide Shoe Assembly - #296</td>
<td>COURION Freight Doors and Car Gates that currently have #296 Guide Shoes. Includes one (1) Guide Shoe per pack.</td>
</tr>
<tr>
<td>09-829633</td>
<td>Guide Shoe Assembly Pack - #296</td>
<td>COURION Freight Doors and Car Gates that currently have #296 Guide Shoes. Includes two (2) Right Hand and two (2) Left Hand Guide Shoes per pack.</td>
</tr>
</tbody>
</table>

(314) 533-5700 - (800) 533-5760 - sales@couriondoors.com - www.couriondoors.com
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Features and Notes</th>
<th>Handed</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>09-801200</td>
<td>Galvanized Shoe Washer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09-801300</td>
<td>Gray PVC Shoe Washer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09-801301</td>
<td>Gray PVC Shoe Washer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09-829201</td>
<td>Guide Shoe Assembly - #292</td>
<td>Available in bronze (Part #: 09-829201B)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Measures: 1-15/16&quot; x 3-1/16&quot;. Hole mounting spacing = 1-9/16&quot;. Uses 5/16-24 x 7/8&quot; Hex Head Screws for mounting.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09-829233</td>
<td>Guide Shoe Assembly Pack - #292</td>
<td>Available in bronze (Part #: 09-829233B)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Measures: 1-15/16&quot; x 3-1/16&quot;. Hole mounting spacing = 1-9/16&quot;. Uses 5/16-24 x 7/8&quot; Hex Head Screws for mounting.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09-829501</td>
<td>Guide Shoe Assembly - #295</td>
<td>Available in bronze (Part #: 09-829501B)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Guide Shoes

09-829601  Guide Shoe Assembly - #296

Features and Notes
Available in bronze (Part #: 09-829601B)

Measures: 2-3/16" x 3-1/16". Hole mounting spacing = 1-9/16". Uses 5/16-24 x 7/8" Hex Head Screws for mounting.

09-829633  Guide Shoe Assembly Pack - #296

Features and Notes
Available in bronze (Part #09-829633)

Measures: 2-3/16" x 3-1/16". Hole mounting spacing = 1-9/16". Uses 5/16-24 x 7/8" Hex Head Screws for mounting.

09-870000  Guide Shoe Assembly - LF96

Features and Notes
The LF96 Door Shoe can be retrofitted to most hoistway doors and car gates that use #292 or #296 Guide Shoes.

The LF96 Guide Shoe is ambidextrous.

09-870033  Guide Shoe Assembly Pack - LF96

Features and Notes
The LF96 Door Shoe can be retrofitted to most hoistway doors and car gates.

The LF96 Guide Shoe is ambidextrous.

22-257000  Dumbwaiter Door Shoe Assembly

Features and Notes
See 94-000818 Door Shoe Hardware Kit
Chains

Where Used
The length of your chain depends upon your hoistway opening height. To insure that you receive the correct door chain length, please call Courion before ordering. You will need your COURION JOB NUMBER, JOB NAME, or JOB LOCATION to process your order.

Features and Notes
Available in carbon steel or stainless.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Part Description</th>
<th>Where Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>07-106200</td>
<td>Compensating Chain Assembly</td>
<td>COURION P Style Car Gates</td>
</tr>
<tr>
<td>90-818800</td>
<td>Chain - #6 Cable Leaf</td>
<td>COURION Freight Doors and P Style Car Gates</td>
</tr>
<tr>
<td>90-818900</td>
<td>Chain - #6H5 Cable (Obsolete)</td>
<td>Obsolete - Use Chain #90-818800.</td>
</tr>
<tr>
<td>90-819200</td>
<td>Chain - AL 442 Cable</td>
<td>COURION Retiring Cams, and Compound Car Gates</td>
</tr>
<tr>
<td>90-819500</td>
<td>Chain - #35 Roller</td>
<td>COURION Dumbwaiter Doors, Gates, &amp; Retiring Cams</td>
</tr>
<tr>
<td>90-819600</td>
<td>Chain - #40 Roller</td>
<td>COURION Car Gates</td>
</tr>
<tr>
<td>90-819700</td>
<td>Chain - #41 Roller</td>
<td>COURION Rotary Sprocket Limit Switch</td>
</tr>
<tr>
<td>90-819800</td>
<td>Chain - #50 Roller</td>
<td>HARRIS PREBLE Freight Doors</td>
</tr>
<tr>
<td>90-820200</td>
<td>Chain - #8 Sash</td>
<td>COURION Emergency Unlocking Device</td>
</tr>
<tr>
<td>90-894800</td>
<td>Chain - #35 Roller - Rustless</td>
<td>COURION Dumbwaiter Doors</td>
</tr>
<tr>
<td>combochain</td>
<td>Gate Combination Chain (#6 and #40)</td>
<td>COURION P Style Car Gates</td>
</tr>
</tbody>
</table>

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### Where Used
COURION Chains and Chain Rods

### Features and Notes

**Handed**  
- **Yes**  
- **No**  

If part is handed, you must specify Right or Left Hand.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Part Description</th>
<th>Where Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>07-104900</td>
<td>Cable Chain Pin</td>
<td>COURION P Style Car Gate Weight Rod</td>
</tr>
<tr>
<td>07-105203</td>
<td>Cable Chain Pin - 1-1/8 Long</td>
<td>COURION P Style Freight Doors and Car Gates</td>
</tr>
<tr>
<td>07-105204</td>
<td>Cable Chain Pin</td>
<td>COURION P Style Freight Doors and Car Gates</td>
</tr>
<tr>
<td>07-105250</td>
<td>Connection Pin - 1” Long</td>
<td>COURION Q Style Freight Doors</td>
</tr>
<tr>
<td>09-400202</td>
<td>Cable Chain Pin - #6 Chain</td>
<td>COURION Slide-Up Freight Doors</td>
</tr>
<tr>
<td>90-820400</td>
<td>Connecting Link - #35 Offset</td>
<td>COURION #35 Chain</td>
</tr>
<tr>
<td>90-820500</td>
<td>Connecting Link - #35 Straight</td>
<td>COURION #35 Chain</td>
</tr>
<tr>
<td>90-820600</td>
<td>Connecting Link - #40 Offset</td>
<td>COURION #40 Chain</td>
</tr>
<tr>
<td>90-820700</td>
<td>Connecting Link - #40 Straight</td>
<td>COURION #40 Chain</td>
</tr>
<tr>
<td>90-820800</td>
<td>Connecting Link - #41 Offset</td>
<td>COURION AL-422 Chain and #41 Chain</td>
</tr>
<tr>
<td>90-820900</td>
<td>Connecting Link - Straight #41</td>
<td>COURION AL-422 Chain and #41 Chain</td>
</tr>
<tr>
<td>90-821000</td>
<td>Connecting Link - #50 Offset</td>
<td>COURION #50 Chain</td>
</tr>
<tr>
<td>90-821100</td>
<td>Connecting Link - #50 Straight</td>
<td>COURION #50 Chain</td>
</tr>
<tr>
<td>90-894900</td>
<td>Connecting Link - #35 Offset (Stainless)</td>
<td>COURION #35 Stainless Chain</td>
</tr>
</tbody>
</table>

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Chain Rods

07-199600 Chain Bolt

Where Used
COURION P Style Car Gate

Include Hardware Kit #07-199611

Features and Notes
5/8" x 10"

Available in Stainless

Handed ○ Yes ○ No

07-199611 Chain & Chain Rod Hardware Kit

Where Used
COURION “P” Series Car Gates

Features and Notes
Available in stainless.

Contains 07-105203 & 07-105204 Cable Chain Pin (1-1/8" & 1")

Handed ○ Yes ○ No

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Where Used
COURION Q Style Car Gates

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>21-753000</td>
<td>Idler Belt</td>
</tr>
<tr>
<td>2</td>
<td>21-754000</td>
<td>Back Shaft</td>
</tr>
<tr>
<td>3</td>
<td>21-755000</td>
<td>Timing Belt Pulley</td>
</tr>
<tr>
<td>4</td>
<td>21-755300</td>
<td>Timing Belt Pulley</td>
</tr>
<tr>
<td>5</td>
<td>21-756500</td>
<td>Drive Cover</td>
</tr>
<tr>
<td>6</td>
<td>90-805700</td>
<td>Ball Bearing</td>
</tr>
<tr>
<td>7</td>
<td>90-805751</td>
<td>Bearing</td>
</tr>
<tr>
<td>8</td>
<td>90-805752</td>
<td>Flange</td>
</tr>
<tr>
<td>9</td>
<td>90-809000</td>
<td>Timing Belt</td>
</tr>
<tr>
<td>10</td>
<td>90-853300</td>
<td>Motor - 32 oz.</td>
</tr>
<tr>
<td>11</td>
<td>90-871100</td>
<td>Sheave - 2&quot; Single Groove</td>
</tr>
</tbody>
</table>

Features and Notes
The Q Gate Drive Unit combines the reliability of COURION'S torque gate motor, with a heavy duty steel frame and sealed ball bearings to create a Gate Drive Unit that has no equal in the industry.

Includes Gate Drive Hardware Kit 94-000706Q
<table>
<thead>
<tr>
<th>Primary Part Number</th>
<th>Description</th>
<th>Features and Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-753000</td>
<td>Idler Belt</td>
<td>COURION Q Style Car Gate Operator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Handed  Yes ☐ No ☐</td>
</tr>
<tr>
<td>21-754000</td>
<td>Back Shaft</td>
<td>COURION Q Style Car Gate Operator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Handed  Yes ☐ No ☐</td>
</tr>
<tr>
<td>21-755000</td>
<td>Timing Belt Pulley</td>
<td>COURION Q Style Car Gate Operator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Handed  Yes ☐ No ☐</td>
</tr>
<tr>
<td>21-755300</td>
<td>Timing Belt Pulley</td>
<td>COURION Q Style Car Gate Operator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Handed  Yes ☐ No ☐</td>
</tr>
<tr>
<td>21-756500</td>
<td>Drive Cover</td>
<td>COURION Q Style Car Gate Operator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Handed  Yes ☐ No ☐</td>
</tr>
<tr>
<td>90-805700</td>
<td>Ball Bearing</td>
<td>COURION “P” Series manual sheaves, and “Q” Series Car Gate Operator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Handed  Yes ☐ No ☐</td>
</tr>
<tr>
<td>Part Number</td>
<td>Description</td>
<td>Features and Notes</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------</td>
<td>-------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>90-805751</td>
<td>Bearing</td>
<td>Gate iSENSOR Sprocket Assembly (21-741002) and &quot;Q&quot; Series Car Gate Operator</td>
</tr>
<tr>
<td>90-805752</td>
<td>Flange</td>
<td>Gate iSENSOR Sprocket Assembly (21-741002) and &quot;Q&quot; Series Car Gate Operator and GLS Limit Switch Idler Sprocket Assembly</td>
</tr>
<tr>
<td>90-809000</td>
<td>Timing Belt</td>
<td>COURION &quot;Q&quot; Series Car Gate Operator</td>
</tr>
<tr>
<td>90-853300</td>
<td>Motor - 32 oz.</td>
<td>COURION Q and P Series Car Gate Operators.</td>
</tr>
<tr>
<td>90-871100</td>
<td>Sheave - 2&quot; Single Groove</td>
<td>COURION Q and P Series Car Gate Operators, and Cart-Matic Transfer Units</td>
</tr>
</tbody>
</table>

Handed: ☐ Yes ☐ No
Where Used
COURION P Style Power Operated Car Gates.

Also Available:
Gate Operator - 32 oz Motor - Right Hand (#07-228501)
Gate Operator - 65 oz Motor - Left Hand (#07-228502)
Gate Operator - 65 oz Motor - Right Hand (#07-228503)

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>07-228303</td>
<td>Rubber Band Sheave - 7-1/4&quot;</td>
</tr>
<tr>
<td>2</td>
<td>07-228504</td>
<td>Gate Operator Shaft</td>
</tr>
<tr>
<td>3</td>
<td>07-228506</td>
<td>Gate Operator Cover - Left Hand</td>
</tr>
<tr>
<td>4</td>
<td>07-228514</td>
<td>Gate Operator Frame Assembly - Left Hand</td>
</tr>
<tr>
<td>5</td>
<td>07-251000</td>
<td>Idler Sheave - 3-3/8&quot;</td>
</tr>
<tr>
<td>6</td>
<td>90-807200</td>
<td>Flanged Bearing</td>
</tr>
<tr>
<td>7</td>
<td>90-809200</td>
<td>COG Belt</td>
</tr>
<tr>
<td>8</td>
<td>90-853300</td>
<td>Motor - 32 oz.</td>
</tr>
<tr>
<td>9</td>
<td>90-871100</td>
<td>Sheave - 2&quot; Single Groove</td>
</tr>
<tr>
<td>10</td>
<td>90-871600</td>
<td>Sheave - 10&quot; Single Groove</td>
</tr>
<tr>
<td>11</td>
<td>94-000020</td>
<td>Gate Operator Hardware Kit</td>
</tr>
</tbody>
</table>

Features and Notes
New design as of May 2010. Directly replaces Gate Operator (Part #: 07-299904L).

Includes Gate Operator Mounting Hardware Kit #94-000020
Where Used

COURION P Series Car Gate Replaced by Gate Operator (Part #: 07-228500 - Left Hand) and (Part #: 07-228501 - Right Hand)

Also Available:
Gate Operator - 65 oz Motor (#07-299905)

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>07-200701</td>
<td>Gate Operator Base Assembly - Obsolete</td>
</tr>
<tr>
<td>2</td>
<td>07-228303</td>
<td>Rubber Band Sheave - 7-1/4”</td>
</tr>
<tr>
<td>3</td>
<td>07-228305</td>
<td>Gate Sheave Shaft</td>
</tr>
<tr>
<td>4</td>
<td>07-229700</td>
<td>Gate Motor Mount</td>
</tr>
<tr>
<td>5</td>
<td>07-235309</td>
<td>Gate Operator Cover</td>
</tr>
<tr>
<td>6</td>
<td>07-251000</td>
<td>Idler Sheave - 3-3/8”</td>
</tr>
<tr>
<td>7</td>
<td>90-808000</td>
<td>Bearing</td>
</tr>
<tr>
<td>8</td>
<td>90-809200</td>
<td>COG Belt</td>
</tr>
<tr>
<td>9</td>
<td>90-853300</td>
<td>Motor - 32 oz.</td>
</tr>
<tr>
<td>10</td>
<td>90-871100</td>
<td>Sheave - 2” Single Groove</td>
</tr>
<tr>
<td>11</td>
<td>90-871600</td>
<td>Sheave - 10” Single Groove</td>
</tr>
<tr>
<td>12</td>
<td>94-000020</td>
<td>Gate Operator Hardware Kit</td>
</tr>
</tbody>
</table>

Handed
@ Yes ☐ No
If part is handed, you must specify Right or Left Hand.

Features and Notes

Replaced by Gate Operator (Part #: 07-228500 - Left Hand) and (Part #: 07-228501 - Right Hand)

Also Available:
Gate Operator - 65 oz Motor (#07-299905)
Drive Units - P Series

07-200701  Gate Operator Base Assembly - Obsolete

Features and Notes
COURION P Series Car Gate Operators #07-299904 and 07-299905 which have been replaced by Car Gate Operators #07-228500 to #07-228503

Handed ☑ Yes  ☐ No

07-228302  Gate Operator Shaft

Features and Notes
COURION P Style Manual Gate Operator 07-299901
Measures: 3/4” x 6”

Handed ☑ Yes  ☐ No

07-228303  Rubber Band Sheave - 7-1/4”

Features and Notes
COURION P Series Car Gate Operator.
Available in bronze (Part #: 07-228303B)
Include (4) External Retaining Rings (#90-868500), and (1) 3/16 x 1-1/4 Square Key

Handed ☑ Yes  ☐ No

07-228304  Rubber Band - 7-1/4”

Features and Notes
COURION P Series Car Gate Operator Rubber Band Sheave #07-228303

Handed ☑ Yes  ☐ No

07-228305  Gate Sheave Shaft

Features and Notes
COURION P Series Car Gate Operators #07-299904 and #07-299905
Include (4) External Retaining Rings (#90-868500)

Handed ☑ Yes  ☐ No

07-228504  Gate Operator Shaft

Features and Notes
COURION P Series Car Gate Operator.
Measures: 3/4” x 7-1/8”
Main Idler Shaft (#07-228504) is not backward compatible with older Courion Gate Drives (#07-299904 or #07-299905)

Handed ☑ Yes  ☐ No

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**Drive Units - P Series**

07-228506  Gate Operator Cover - Left Hand

Features and Notes
COURION P Series Car Gate Operator. Also Available: Gate Operator Cover - Right Hand (#07-228507)

Handed ☑ Yes  ☐ No

---

07-228507  Gate Operator Cover - Right Hand

Features and Notes
COURION P Series Car Gate Operators #07-228501 and 07-228503

Handed ☑ Yes  ☐ No

---

07-228514  Gate Operator Frame Assembly - Left Hand

Features and Notes
COURION P Series Car Gate Operator. Also Available: Gate Operator Frame Assembly - Right Hand (#07-228515)

Handed ☑ Yes  ☐ No

---

07-228515  Gate Operator Frame Assembly - Right Hand

Features and Notes
COURION P Series Car Gate Operators #07-228501 and 07-228503

Handed ☑ Yes  ☐ No

---

07-229700  Gate Motor Mount

Features and Notes
COURION P Series Car Gate Operators Include (2) 5/16-18 x 1 Carriage Bolts, (2) 5/16-19 Hex Nuts, (2) 5/16 Flat Washers, and (2) 5/16 Split Lock Washers

Handed ☑ Yes  ☐ No

---

07-235309  Gate Operator Cover

Features and Notes
COURION P Series Car Gate Operators #07-299904 and 07-299905

Handed ☑ Yes  ☐ No

---

(314) 533-5700 - (800) 533-5760 - sales@couriondoors.com - www.couriondoors.com
### Drive Units - P Series

#### 07-251000  Idler Sheave - 3-3/8"

**Features and Notes**
COURION P Series Car Gate Operator.
Include (1) 3/4 x 1-3/4" Shoulder Bolt, (2) 1-1/2 x 3/4 Bushings, (5) .758ID x 1/126OD x .015 washers, and (1) 5/8-11 Flex Lock Hex Nut

<table>
<thead>
<tr>
<th>Handed</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

#### 07-289600  Hinge Plate Bracket Assembly

**Features and Notes**
COURION P Style Power Operated Car Gates

<table>
<thead>
<tr>
<th>Handed</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

#### 07-299932  Gate Operator - Without Motor - OBSOLETE

**Features and Notes**
COURION P Series Car Gate Operators #07-299904 and 07-299905
Replaced by Gate Operator (Part #: 07-228500 - Left Hand) and (Part #: 07-228501 - Right Hand)

<table>
<thead>
<tr>
<th>Handed</th>
<th>Yes</th>
<th>No</th>
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</thead>
</table>

#### 07-299965  Gate Operator - Without Motor - OBSOLETE

**Features and Notes**
COURION P Series Car Gate Operators #07-299904 and 07-299905
Replaced by Gate Operator (Part #: 07-228502 - Left Hand) and (Part #: 07-228503 - Right Hand)

<table>
<thead>
<tr>
<th>Handed</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

#### 90-805700  Ball Bearing

**Features and Notes**
COURION P Series Car Gate Operator.

<table>
<thead>
<tr>
<th>Handed</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

#### 90-805751  Bearing

**Features and Notes**
COURION P Series Car Gate Operator.
5/8" SB202-10

<table>
<thead>
<tr>
<th>Handed</th>
<th>Yes</th>
<th>No</th>
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</thead>
</table>

(314) 533-5700 - (800) 533-5760 - sales@couriondoors.com - www.couriondoors.com
### Drive Units - P Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Features and Notes</th>
<th>Handed</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-805752</td>
<td>Flange</td>
<td>COURION “P” Series manual sheaves, and “Q” Series Car Gate Operator</td>
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<tr>
<td>90-808000</td>
<td>Bearing</td>
<td>COURION P Series Car Gate Operators #07-299904 and 07-299905</td>
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<tr>
<td>90-809200</td>
<td>COG Belt</td>
<td>COURION P Series Car Gate Operator.</td>
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<tr>
<td>90-871100</td>
<td>Sheave - 2” Single Groove</td>
<td>COURION P Series Car Gate Operator. 2” Sheave with 5/8” bore</td>
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<td>Yes</td>
<td>No</td>
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<tr>
<td>90-871200</td>
<td>Sheave - 2” Double Groove</td>
<td>COURION P Series Car Gate Operator. 2” Double Groove Sheave</td>
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<td>Yes</td>
<td>No</td>
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<tr>
<td>90-871600</td>
<td>Sheave - 10” Single Groove</td>
<td>COURION P Series Car Gate Operator. 10” sheave with 3/4” bore</td>
<td></td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Include (4) External Retaining Rings (#90-868500), and (1) 3/16 x 1-1/4 Square Key

(314) 533-5700 - (800) 533-5760 - sales@couriondoors.com - www.couriondoors.com
**Drive Units - P Series**

**90-871700**  
**Sheave** - 10” Double Groove

**Features and Notes**
COURION P Series Car Gate Operator.

**Handed**  
[ ] Yes  [ ] No

**94-000020**  
**Gate Operator Hardware Kit**

**Features and Notes**
COURION P Series Car Gate Operator.

**Handed**  
[ ] Yes  [ ] No

(314) 533-5700 - (800) 533-5760 - sales@couriondoors.com - www.couriondoors.com
### Motors

<table>
<thead>
<tr>
<th>90-853300 Motor - 32 oz.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Where Used</strong></td>
</tr>
<tr>
<td>COURION Q and P Series Car Gate Operators.</td>
</tr>
<tr>
<td><strong>Features and Notes</strong></td>
</tr>
<tr>
<td>600 RPM, 32 oz. 220V 1.6 amps, 3-Phase</td>
</tr>
<tr>
<td>Include (4) 5/16-18 x 1 Carriage Bolts, (4) 5/16-19 Hex Nuts, (4) 5/16 Flat Washers, and (4) 5/16 Split Lock Washers</td>
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<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>90-853500 Motor - 65 oz.</th>
</tr>
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<tbody>
<tr>
<td><strong>Where Used</strong></td>
</tr>
<tr>
<td>COURION “P” Series Car Gate Operators</td>
</tr>
<tr>
<td><strong>Features and Notes</strong></td>
</tr>
<tr>
<td>600 RPM, 65 oz. 220V, 3.2 amps, 3-Phase with CSA Label</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
General Description
COURION Q Series Car Gates

Parts Manual Sections
1 Cross Drive Shaft & Angle Hardware Kit
2 Cross Bearing Bracket Hardware Kit
3 Cross Drive Angle
4 Cross Drive Shaft
5 Gate Drive Units and Motors
6 Gate Sprockets and Bearing Units

The type and length of your Gate Cross Drive and Cross Drive Angle are job specific. Please call Courion with your JOB NUMBER, JOB NAME or JOB LOCATION to order a new Cross Drive.
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Features and Notes</th>
<th>Handed</th>
<th>Parts Manual</th>
<th>Dumbwaiter</th>
<th>Reviewed</th>
<th>Classification 1</th>
<th>Classification 2</th>
<th>Classification 3</th>
</tr>
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<tbody>
<tr>
<td>07-102601</td>
<td>Cross Angle Knee Brace</td>
<td>COURION P Style Car Gate Guides</td>
<td></td>
<td>Yes</td>
<td>No</td>
<td></td>
<td>Car Gate Equipment</td>
<td>Operators and Motors</td>
<td>Cross Drives</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Include Hardware Kit #94-000090.</td>
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<tr>
<td>21-707900</td>
<td>Knee brace</td>
<td>COURION Q Style Gate Guides</td>
<td></td>
<td>Yes</td>
<td>No</td>
<td></td>
<td>Car Gate Equipment</td>
<td>Operators and Motors</td>
<td>Cross Drives</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Include Angle and Knee Brace Hardware Kit #94-000705Q</td>
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<tr>
<td>21-734000</td>
<td>Cross Bearing Bracket</td>
<td>COURION Q Style Car Gates Cross Drive Bracket Hardware Kit</td>
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<td>Yes</td>
<td>No</td>
<td></td>
<td>Car Gate Equipment</td>
<td>Operators and Motors</td>
<td>Cross Drives</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sell Hardware Kit 94-000703Q</td>
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<tr>
<td>21-734700</td>
<td>Cross Bearing Half</td>
<td>COURION Q Style Car Gates</td>
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<td>Yes</td>
<td>No</td>
<td></td>
<td>Car Gate Equipment</td>
<td>Operators and Motors</td>
<td>Cross Drives</td>
</tr>
<tr>
<td>21-737000</td>
<td>Coupling Tube</td>
<td>COURION Q Style Car Gates</td>
<td></td>
<td>Yes</td>
<td>No</td>
<td></td>
<td>Car Gate Equipment</td>
<td>Operators and Motors</td>
<td>Cross Drives</td>
</tr>
<tr>
<td>21-737500</td>
<td>Coupling Support</td>
<td>COURION Q Style Car Gates</td>
<td></td>
<td>Yes</td>
<td>No</td>
<td></td>
<td>Car Gate Equipment</td>
<td>Operators and Motors</td>
<td>Cross Drives</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Include (1) 3/8” x 2” Drive Pin (#21-733015)</td>
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</tbody>
</table>
Cross Drives

90-808700  Keyless Transtorque Bushing - 3/4”

Features and Notes

COURION Q Style Car Gate Cross Drive Shaft

Handed ○ Yes ● No

94-000090  Cross Angle Bracing Hardware Kit

Features and Notes

COURION P Style Gate Guides

Handed ○ Yes ● No

94-000705Q  Angle & Knee Brace Hardware Kit

Features and Notes

COURION Q Style Car Gates

Handed ○ Yes ● No

94-000702Q  Cross Drive Shaft & Angle Hardware Kit

Features and Notes

COURION Q Style Car Gates

Handed ○ Yes ● No

94-000703Q  Cross Bearing Bracket Hardware Kit

Features and Notes

COURION Q Style Car Gates

Handed ○ Yes ● No

CDShaft  Cross Drive Shaft

Features and Notes

COURION Q Style Car Gate Cross Drive

The type and length of your Q Gate Cross Drive is job specific. Please call Courion with your JOB NUMBER, JOB NAME or JOB LOCATION to order a new Cross Drive.

Handed ○ Yes ● No

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Cross Drives

CDAngle       Cross Drive Angle

Features and Notes

COURION Q and P Series Car Gate Cross Drive

The type and length of your Q Gate Cross Drive is job specific. Please call Courion with your JOB NUMBER, JOB NAME or JOB LOCATION to order a new Cross Drive. Handed ☐ Yes ☐ No

Parts Manual

Yes ☐ No ☐

Classification 1
Car Gate Equipment

Classification 2
Operators and Motors

Classification 3
Cross Drives

Print As Main Page

Yes ☐ No ☐

Reviewed

Yes ☐ No ☐

Dumbwaiter

Yes ☐ No ☐

(314) 533-5700 - (800) 533-5760 - sales@couriondoors.com - www.couriondoors.com
07-104500  Ratio Drive Sprocket - #41B30

Features and Notes
COURION Ratio Sprocket Assembly with 41 Chain

Ratio Drive Sprockets vary by Job. Please have your JOB NUMBER, JOB NAME, or JOB LOCATION when ordering.

41B30 with 3/4" Bore

Handed  ○ Yes  ○ No

07-104501  Ratio Drive Sprocket - #41B26

Features and Notes
COURION Ratio Sprocket Assembly with #41 Chain

Ratio Drive Sprockets vary by Job. Please have your JOB NUMBER, JOB NAME, or JOB LOCATION when ordering.

41B26 with 3/4" Bore

Handed  ○ Yes  ○ No

07-106400  Gate Idler Sheave Assembly - 5"

Features and Notes
COURION P Style Car Gates (Wide Gates Only)

Mounts on Car Gate Cross Angle for Wide Car Gates

Replacement 5” Sheave Only (Part # 03-305000)

Handed  ○ Yes  ○ No

07-106402  Gate Sprocket Assembly

Features and Notes
COURION Power Operated P Style Car Gates with GLS Limit Switch or Rotary Sprocket Limit Switch

Handed  ○ Yes  ○ No

07-107020  Gate Sprocket Assembly

Features and Notes
COURION Magna Grip Operator Style Car Gates

Handed  ○ Yes  ○ No

07-228400  Sprocket Assembly Shaft

Features and Notes
Car Gate Sprocket Assemblies

Measures: 3/4" x 4-1/8"

Handed  ○ Yes  ○ No
## Sprocket Assemblies

### 07-612000  
**Gate Idler Sprocket Assembly**

**Features and Notes**
COURION P Style Car Gates with Geared Limit Switches

### 21-730010  
**Gate Sprocket & Bearing Unit - Drive Side, Single-Section Gate with #40 Chain**

**Features and Notes**
COURION Q Style Single-Section Car Gates with #40 Chain

Also Available: Gate Sprocket & Bearing Unit for Drive Side, Single Section Gate with #41 Chain (#21-730000)

Include (3) 3/8-16 x 1-1/4 Hex Head Cap Screws, (3) 3/8 Split Lock Washers, and (3) 3/8-16 Hex Nuts.

### 21-730011  
**Gate Sprocket & Bearing Unit - Drive Side, 2-Section Gate with #40 Chain**

**Features and Notes**
COURION Q Style 2-Section Car Gate with #40 Chain

Also Available: Gate Sprocket & Bearing Unit for Drive Side, 2-Section Gate with #41 Chain (#21-730002)

Include (3) 3/8-16 x 1-1/4 Hex Head Cap Screws, (3) 3/8 Split Lock Washers, and (3) 3/8-16 Hex Nuts.

### 21-730012  
**Gate Sprocket & Bearing Unit - Limit Switch Side, Single-Section Gate with #40 Chain**

**Features and Notes**
COURION Q Style Single-Section Car Gate with #40 Chain

Also Available: Gate Sprocket & Bearing Unit for Limit Switch Side, Single-Section Gate with #41 Chain (#21-730050)

Include (3) 3/8-16 x 1-1/4 Hex Head Cap Screws, (3) 3/8 Split Lock Washers, and (3) 3/8-16 Hex Nuts.

### 21-730013  
**Gate Sprocket & Bearing Unit - Limit Switch Side, 2-Section Gate with #40 Chain**

**Features and Notes**
COURION Q Style 2-Section Car Gate with #40 Chain

Also Available: Gate Sprocket & Bearing Unit for Limit Switch Side, 2-Section Gate with #41 Chain (#21-730052)

Include (3) 3/8-16 x 1-1/4 Hex Head Cap Screws, (3) 3/8 Split Lock Washers, and (3) 3/8-16 Hex Nuts.

### 21-730014  
**Gate Sprocket & Bearing Unit - Manual Single-Section Gate with #40 Chain**

**Features and Notes**
COURION Q Style Single-Section Car Gate with #40 Chain

Also Available: Gate Sprocket & Bearing Unit for Manual Single Section Gate with #41 Chain (#21-731000)

Include (3) 3/8-16 x 1-1/4 Hex Head Cap Screws, (3) 3/8 Split Lock Washers, and (3) 3/8-16 Hex Nuts.

---

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51
Sprocket Assemblies

21-730015  Gate Sprocket & Bearing Unit - Manual 2-Section Gate with #40 Chain

Features and Notes
COURION Q Style 2-Section Car Gate with #40 Chain

Also Available: Gate Sprocket & Bearing Unit for Manual 2-Section Gate with #41 Chain (#21-731002)

Include (3) 3/8-16 x 1-1/4 Hex Head Cap Screws, (3) 3/8 Split Lock Washers, and (3) 3/8-16 Hex Nuts.

21-733000  Bearing Shaft Assembly

Features and Notes
COURION Q Style Sprocket & Bearing Units

90-808500  Pillow Block Bearing

Features and Notes
COURION Q Style Sprocket & Bearing Units

Include three (3) 3/8-16 x 1-1/4" Hex Bolts, (3) 3/8" Flat Washers, (3) 3/8" Split Lock Washers, and (3) 3/8-16 Hex Nuts

90-870725  Sheave - 7-1/4"

Features and Notes
COURION Q Style Sprocket & Bearing Units

Include (1) 3/16 x 1-1/4" Square Key and (1) 5/16-18 x 3/8 set screw.

90-977600  Sprocket - 40B40

Features and Notes
COURION Q Style Car Gate Sprocket Assemblies with #40 Chain

40B40 with 3/4" Bore

90-977700  Sprocket - 40B25

Features and Notes
COURION Q Style Car Gate Sprocket Assemblies with #40 Chain

40B25 with 3/4" Bore
# Sprocket Assemblies

## 90-979000  Sprocket - #41B40

**Features and Notes**  
COURION Q Style Sprocket & Bearing Units with #41 Chain

#41B40 with 3/4" Bore  
Include (1) 3/16 x 1-1/4" square key and (1) 5/16-18 x 3/8" set screw

*Handed*: Yes  

## 90-979022  Sprocket - #41B25

**Features and Notes**  
COURION Q Style Sprocket & Bearing Units with #41 Chain

#41B25 with 3/4" Bore  
Include (1) 3/16 x 1-1/4" square key and (1) 5/16-18 x 3/8" set screw

*Handed*: Yes  

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Where Used
COURION Car Gates

When replacing P or KL Type Gate Contact on a P Series Car Gate, you need to order Retrofit Kit 94-000150 along with the Q Gate Contact Assembly.

Also Available: Explosion Resistant (#07-210079)

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>07-212000</td>
<td>Gasket</td>
</tr>
<tr>
<td>2</td>
<td>07-212500</td>
<td>Switch Pivot</td>
</tr>
<tr>
<td>3</td>
<td>07-213750</td>
<td>Actuator Arm Assembly</td>
</tr>
<tr>
<td>4</td>
<td>07-214000</td>
<td>Switch Actuator</td>
</tr>
<tr>
<td>5</td>
<td>07-214500</td>
<td>Spring</td>
</tr>
<tr>
<td>6</td>
<td>07-215000</td>
<td>Zone Filler Plate</td>
</tr>
<tr>
<td>7</td>
<td>07-220000</td>
<td>Universal Modular Contact - UMC</td>
</tr>
<tr>
<td>8</td>
<td>90-200500</td>
<td>Cover - NEMA 4, 12 &amp; 13</td>
</tr>
</tbody>
</table>

Features and Notes
NEMA 4, 12 and 13 - standard

UL Listed. CSA Approved. Meets all major international safety codes: ASME A17.1, CSA B44-M90, EN81-1, and BS 5655-1

Includes Gate Contact Mounting Hardware Kit #94-000110

(314) 533-5700 - (800) 533-5760 - sales@couriondoors.com - www.couriondoors.com
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Features and Notes</th>
<th>Handed</th>
<th>Classification 1</th>
<th>Classification 2</th>
<th>Classification 3</th>
<th>Reviewed</th>
<th>Dumbwaiter</th>
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<tbody>
<tr>
<td>07-211079</td>
<td>Cover - Hazardous Location</td>
<td>COURION Q Style Car Gate - Hazardous Environment</td>
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<tr>
<td>07-212000</td>
<td>Gasket</td>
<td>COURION Q Style Gate Contact</td>
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<tr>
<td>07-212500</td>
<td>Switch Pivot</td>
<td>COURION Q Style Gate Contact</td>
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<tr>
<td>07-213750</td>
<td>Actuator Arm Assembly</td>
<td>COURION Q Style Gate Contact</td>
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<tr>
<td>07-214000</td>
<td>Switch Actuator</td>
<td>COURION Q and P Series Car Gates</td>
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</tr>
<tr>
<td>07-214500</td>
<td>Spring</td>
<td>COURION Q and P Series Car Gates</td>
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<tr>
<td>Part Number</td>
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<td>Features and Notes</td>
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<tr>
<td>07-215000</td>
<td>Zone Filler Plate</td>
<td>COURION Q Interlocks and Gate Contacts</td>
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<td></td>
</tr>
<tr>
<td>07-220000</td>
<td>Universal Modular Contact - UMC</td>
<td>COURION Q Series Interlocks and Gate Contacts</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>90-200500</td>
<td>Cover - NEMA 4, 12 &amp; 13</td>
<td>COURION Q Style Gate Contact</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Include (1) Gasket (#07-212000), and (8) Captive Screws (#90-202500)</td>
<td></td>
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</tr>
</tbody>
</table>
P Gate Contact Assembly - Obsolete

Where Used
COURION Car Gates
Replace with Q Gate Contact Assembly (#07-210000) and Q Gate Retrofit Kit #94-000150

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>04-548604</td>
<td>Limit Switch Box Cover</td>
</tr>
<tr>
<td>2</td>
<td>04-548706</td>
<td>Gate Contact</td>
</tr>
<tr>
<td>3</td>
<td>04-549000</td>
<td>Spring</td>
</tr>
<tr>
<td>4</td>
<td>07-400400</td>
<td>Gate Contact Lever</td>
</tr>
<tr>
<td>5</td>
<td>07-400500</td>
<td>Movable Contact</td>
</tr>
</tbody>
</table>

Handed
☐ Yes ☐ No
If part is handed, you must specify Right or Left Hand.

Features and Notes
# Gate Contacts

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Features and Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-046400</td>
<td>Relay Pin</td>
<td>Gate Contact (Part #: 04-548706) and Contact (Part #: 04-500600) Measures: 1/8” x 7/8”</td>
</tr>
<tr>
<td>04-548604</td>
<td>Limit Switch Box Cover</td>
<td>COURION Car Gates Replace with Q Gate Contact Assembly (#07-210000) and Q Gate Retrofit Kit #94-000150</td>
</tr>
<tr>
<td>04-548701</td>
<td>Finger Contact Assembly</td>
<td>COURION Car Gate Contact</td>
</tr>
<tr>
<td>04-548706</td>
<td>Gate Contact</td>
<td>COURION Car Gate Contact</td>
</tr>
<tr>
<td>04-549000</td>
<td>Spring</td>
<td>COURION Car Gates Replace with Q Gate Contact Assembly (#07-210000) and Q Gate Retrofit Kit #94-000150</td>
</tr>
<tr>
<td>07-109500</td>
<td>Gate Contact Brace</td>
<td>COURION P Style Car Gates</td>
</tr>
</tbody>
</table>

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Gate Contacts

07-400400  Gate Contact Lever
Features and Notes
COURION KL Car Gate Contact

Handed ○ Yes ○ No

07-400402  Lever Assembly - 1/2" Hole
Features and Notes
COURION KL Car Gate Contact

Handed ○ Yes ○ No

07-400403  Lever Assembly - 7/16" Hole
Features and Notes
COURION KL Car Gate Contact

Handed ○ Yes ○ No

07-400500  Movable Contact
Features and Notes
COURION Car Gate Contact

Handed ○ Yes ○ No

94-000110  Gate Contact Hardware Kit
Features and Notes
COURION P Style Gate Guides

Handed ○ Yes ○ No

94-000150  Gate Switch Retrofit Hardware Kit
Features and Notes
When adding a Q Series Gate Contact (#07-210000 or #07-210079) to a P Series Car Gate
Does not include QGS Gate Contact (07-210000) - Must be ordered separately.

Handed ○ Yes ○ No

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Where Used
COURION Car Gates

Replace with Q Gate Contact Assembly (#07-210000) and Q Gate Retrofit Kit #94-000150

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>04-548604</td>
<td>Limit Switch Box Cover</td>
</tr>
<tr>
<td>2</td>
<td>04-548706</td>
<td>Gate Contact</td>
</tr>
<tr>
<td>3</td>
<td>04-549000</td>
<td>Spring</td>
</tr>
<tr>
<td>4</td>
<td>07-400402</td>
<td>Lever Assembly</td>
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<tr>
<td>5</td>
<td>07-400500</td>
<td>Movable Contact</td>
</tr>
</tbody>
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Handed
☐ Yes ☐ No
If part is handed, you must specify Right or Left Hand.

Features and Notes
Where Used
COURION Q Style Car Gates with Next Generation iSYSTEM Controls including the Gate iDRIVE.plc

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>01-713500</td>
<td>Encoder with Connector Assembly</td>
</tr>
<tr>
<td>2</td>
<td>01-713600</td>
<td>Encoder Mounting Bracket</td>
</tr>
<tr>
<td>3</td>
<td>21-742001</td>
<td>Cover</td>
</tr>
<tr>
<td>4</td>
<td>21-742500</td>
<td>Trans Gear</td>
</tr>
<tr>
<td>5</td>
<td>21-743000</td>
<td>Trans Gear</td>
</tr>
<tr>
<td>6</td>
<td>21-744100</td>
<td>Encoder Shaft</td>
</tr>
<tr>
<td>7</td>
<td>21-744200</td>
<td>iSENSOR Sprocket</td>
</tr>
<tr>
<td>8</td>
<td>21-744500</td>
<td>Encoder Bracket</td>
</tr>
<tr>
<td>9</td>
<td>90-713601</td>
<td>Encoder Coupler</td>
</tr>
<tr>
<td>10</td>
<td>90-605500</td>
<td>Ball Bearing With Flange</td>
</tr>
<tr>
<td>11</td>
<td>94-741001</td>
<td>Gate iSENSOR Hardware Kit</td>
</tr>
</tbody>
</table>

Handed
☑ Yes  ☐ No
If part is handed, you must specify Right or Left Hand.

Features and Notes
Replaced in May 2010 with the Gate iSENSOR.g which is used in conjunction with the Gate iDRIVE.g
01-713500  Encoder with Connector Assembly

Features and Notes
COURION Gate iSENSOR.plc
Includes multi-pin connector

Handed ☐ Yes ☑ No

01-713600  Encoder Mounting Bracket

Features and Notes
COURION Gate iSENSOR.plc
Used with Encoder (Part #90-713600)

Handed ☐ Yes ☑ No

21-742001  Cover

Features and Notes
COURION Gate iSENSOR.plc

Handed ☐ Yes ☑ No

21-742500  Trans Gear

Features and Notes
COURION Gate iSENSOR.plc
64 tooth gear

Handed ☐ Yes ☑ No

21-743000  Trans Gear

Features and Notes
COURION Gate iSENSOR.plc
20 Tooth gear

Handed ☐ Yes ☑ No

21-744100  Encoder Shaft

Features and Notes
COURION Gate iSENSOR.plc

Handed ☐ Yes ☑ No
## Limit Switches

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Features and Notes</th>
<th>Handled</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-744200</td>
<td>iSENSOR Sprocket</td>
<td>COURION Gate iSENSOR.plc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21-744500</td>
<td>Encoder Bracket</td>
<td>COURION Gate iSENSOR.plc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90-713601</td>
<td>Encoder Coupler</td>
<td>COURION Gate iSENSOR.plc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90-805500</td>
<td>Ball Bearing With Flange</td>
<td>COURION Gate iSENSOR.plc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>94-741001</td>
<td>Gate iSENSOR Hardware Kit</td>
<td>COURION Next Generation iSYSTEM - used with Gate iDRIVE.plc Includes necessary fasteners to mount the Gate iSENSOR.plc</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Where Used
COURION P Style Car Gates with Next Generation iSYSTEM Controls including the Gate iDRIVE.g

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>07-613500</td>
<td>Chain Keeper</td>
</tr>
<tr>
<td>2</td>
<td>21-745000</td>
<td>iSENSOR Encoder Bracket</td>
</tr>
<tr>
<td>3</td>
<td>90-713605</td>
<td>Flex Coupler</td>
</tr>
<tr>
<td>4</td>
<td>90-713700</td>
<td>Gate iSENSOR.g Encoder</td>
</tr>
<tr>
<td>5</td>
<td>90-805751</td>
<td>Bearing</td>
</tr>
<tr>
<td>6</td>
<td>90-805752</td>
<td>Flange</td>
</tr>
<tr>
<td>7</td>
<td>90-979600</td>
<td>Sprocket</td>
</tr>
</tbody>
</table>

Handed
☐ Yes ☐ No
If part is handed, you must specify Right or Left Hand.

Features and Notes
Serial Encoder that monitors exact position of Car Gate during entire travel.

Plugs directly into COURION’s iDIVE.g VFD Car Top Control

Includes necessary hardware kit for mounting.
Limit Switches

07-613500  Chain Keeper

Features and Notes
COURION Geared Limit Switch and Gate iSENSOR.
Include (2) 1/4-20 x 3/4" Round Head Machine Screws and (2) 1/4 Flat Washers

21-745000  iSENSOR Encoder Bracket

Features and Notes
Gate iSENSOR Sprocket Assembly (21-741002)

90-713605  Flex Coupler

Features and Notes
Gate iSENSOR Sprocket Assembly (21-741002)
3/8" TO 6mm

90-713700  Gate iSENSOR.g Encoder

Features and Notes
Gate iSENSOR Sprocket Assembly (21-741002) and Gate iSENSOR.G (21-741003) Serial Encoder

90-805751  Bearing

Features and Notes
Gate iSENSOR Sprocket Assembly (21-741002) and "Q" Series Car Gate Operator 5/8" SB202-10

90-805752  Flange

Features and Notes
Gate iSENSOR Sprocket Assembly (21-741002) and "Q" Series Car Gate Operator and GLS Limit Switch Idler Sprocket Assembly

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Limit Switches

90-979600  Sprocket

Features and Notes
Gate iSENSOR Sprocket Assembly (21-741002) and GLS Limit Switch Idler Sprocket Assembly
#41B24 x 5/8” Bore with 3/16” Keyway

Handed  ○ Yes  ○ No
Where Used
COURION Q Style Car Gates with Next Generation Control System (Version 2.0)

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>21-741002</td>
<td>Gate iSENSOR.g - P Style Gate</td>
</tr>
<tr>
<td>2</td>
<td>94-741004</td>
<td>Gate iSENSOR.g Hardware Kit - Q Gate</td>
</tr>
</tbody>
</table>

Handed
☐ Yes    ☐ No
If part is handed, you must specify Right or Left Hand.

Features and Notes
COURION’s Gate iSENSOR.g provides highly accurate position sensing information to the iLEARN Door Control via COURION’s iWIRE CANBus network. The Gate iSENSOR.g is built around a multi-turn Encoder that is dust, oil, and moisture resistant.

Includes necessary mounting hardware.

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Where Used
COURION Q Series Car Gates
Also Available: GLS Limit Switch - Explosion Resistant (#21-740079)
Use GLS Retrofit Kit #07-611000) on P Series Car Gates

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>21-742000</td>
<td>Switch Cover</td>
</tr>
<tr>
<td>2</td>
<td>21-742500</td>
<td>Trans Gear</td>
</tr>
<tr>
<td>3</td>
<td>21-743000</td>
<td>Trans Gear</td>
</tr>
<tr>
<td>4</td>
<td>21-743500</td>
<td>Cam Gear</td>
</tr>
<tr>
<td>5</td>
<td>21-743700</td>
<td>Limit Switch Cam</td>
</tr>
<tr>
<td>6</td>
<td>90-983200</td>
<td>Microswitch</td>
</tr>
<tr>
<td>7</td>
<td>90-983250</td>
<td>Roller Arm</td>
</tr>
</tbody>
</table>

Features and Notes
Includes GLS Mounting Hardware Kit #94-000706Q

Handed
☐ Yes ☰ No
If part is handed, you must specify Right or Left Hand.
## Limit Switches

### 21-742000 Switch Cover

**Features and Notes**
COURION Q Style GLS Limit Switch
Available in stainless (Part #: 21-742000S)

Handed ○ Yes  ◼ No

### 21-742500 Trans Gear

**Features and Notes**
COURION Gate iSENSOR.plc
64 tooth gear

Handed ○ Yes  ◼ No

### 21-743000 Trans Gear

**Features and Notes**
COURION Gate iSENSOR.plc
20 Tooth gear

Handed ○ Yes  ◼ No

### 21-743500 Cam Gear

**Features and Notes**
COURION Gate iSENSOR.plc

Handed ○ Yes  ◼ No

### 21-743700 Limit Switch Cam

**Features and Notes**
COURION Q Style GLS Limit Switch

Handed ○ Yes  ◼ No

### 90-983200 Microswitch

**Features and Notes**
COURION QLSII and P Style Limit Switch, and Q Style Auto-Sta Set Switch
Electrical Rating - 300VAC, 10A
Rated suitable for NEMA 1, 2, 3, 4, 7, 9 & 12 environments and is classified IP68.
UL and CSA Approved

Handed ○ Yes  ◼ No
90-983250  
Roller Arm

Features and Notes
COURION Q Style Auto-Sta Set Switch
Available in Stainless (Part #: 90-983250S)

Handed 〇 Yes  ◯ No
Where Used
COURION P Style Car Gates
Replace with COURION GLS Limit Switch

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>07-106402</td>
<td>Gate Sprocket Assembly</td>
</tr>
<tr>
<td>2</td>
<td>07-599200</td>
<td>Rotary Limit Switch Assembly - Obsolete</td>
</tr>
<tr>
<td>3</td>
<td>90-819700</td>
<td>Chain - #41 Roller</td>
</tr>
<tr>
<td>4</td>
<td>90-820900</td>
<td>Connecting Link - Straight #41</td>
</tr>
</tbody>
</table>

Features and Notes

If part is handed, you must specify Right or Left Hand.
Where Used
COURION P Style Car Gates

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
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<th>Part #</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>07-106402</td>
<td>Gate Sprocket Assembly</td>
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<tr>
<td>2</td>
<td>07-599300</td>
<td>Rotary Limit Switch - OBSOLETE</td>
</tr>
<tr>
<td>3</td>
<td>90-819700</td>
<td>Chain - #41 Roller</td>
</tr>
<tr>
<td>4</td>
<td>90-820900</td>
<td>Connecting Link - Straight #41</td>
</tr>
</tbody>
</table>

Handed
@ Yes ☐ No
If part is handed, you must specify Right or Left Hand.

Features and Notes
Where Used
COURION P Style Car Gates

Sub Assemblies
(For additional details - see pages that follow)

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</tr>
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<tbody>
<tr>
<td>1</td>
<td>07-106402</td>
<td>Gate Sprocket Assembly</td>
</tr>
<tr>
<td>2</td>
<td>07-599400</td>
<td>Rotary Limit Switch - Explosion Resistant</td>
</tr>
<tr>
<td></td>
<td>OBSOLETE</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>90-819700</td>
<td>Chain - #41 Roller</td>
</tr>
<tr>
<td>4</td>
<td>90-820900</td>
<td>Connecting Link - Straight #41</td>
</tr>
</tbody>
</table>

Handed
@ Yes ☐ No
If part is handed, you must specify Right or Left Hand.

Features and Notes
Where Used
COURION Rotary Sprocket Limit Switch - Obsolete
Replace with COURION'S GLS Limit Switch

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>07-500302</td>
<td>Micro Switch Bracket</td>
</tr>
<tr>
<td>2</td>
<td>07-500400</td>
<td>Sprocket</td>
</tr>
<tr>
<td>3</td>
<td>07-500500</td>
<td>Collar</td>
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<td>4</td>
<td>07-500700</td>
<td>Threaded Shaft</td>
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<tr>
<td>5</td>
<td>07-501100</td>
<td>Brass Nut</td>
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<tr>
<td>6</td>
<td>07-502000</td>
<td>Mounting Bracket</td>
</tr>
<tr>
<td>7</td>
<td>07-502100</td>
<td>Cover</td>
</tr>
<tr>
<td>8</td>
<td>07-502300</td>
<td>Retainer Lip</td>
</tr>
<tr>
<td>9</td>
<td>90-806100</td>
<td>Bearing</td>
</tr>
<tr>
<td>10</td>
<td>90-806300</td>
<td>Bearing</td>
</tr>
<tr>
<td>11</td>
<td>90-824900</td>
<td>Knock-Out Seal</td>
</tr>
<tr>
<td>12</td>
<td>90-875900</td>
<td>Microswitch</td>
</tr>
</tbody>
</table>

Features and Notes
If part is handed, you must specify Right or Left Hand.
**Car Gate Equipment**

**07-599300**

**Rotary Limit Switch - OBSOLETE**

Where Used

COURION P Style Car Gates - OBSOLETE

Replace with COURION'S GLS Limit Switch

**Sub Assemblies**

(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
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<tbody>
<tr>
<td>1</td>
<td>07-500400</td>
<td>Sprocket</td>
</tr>
<tr>
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<td>07-500500</td>
<td>Collar</td>
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<td>3</td>
<td>07-500700</td>
<td>Threaded Shaft</td>
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<tr>
<td>4</td>
<td>07-501100</td>
<td>Brass Nut</td>
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<tr>
<td>5</td>
<td>07-502000</td>
<td>Mounting Bracket</td>
</tr>
<tr>
<td>6</td>
<td>07-502200</td>
<td>Cover - NEMA 4, 7 &amp; 9</td>
</tr>
<tr>
<td>7</td>
<td>07-502300</td>
<td>Retainer Lip</td>
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<tr>
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<td>90-806100</td>
<td>Bearing</td>
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<td>10</td>
<td>90-824900</td>
<td>Knock-Out Seal</td>
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<tr>
<td>11</td>
<td>90-983200</td>
<td>Microswitch</td>
</tr>
<tr>
<td>12</td>
<td>90-983301</td>
<td>Actuator Arm</td>
</tr>
</tbody>
</table>

Handed

@ Yes  ☐ No

If part is handed, you must specify Right or Left Hand.

Features and Notes
07-599400  Rotary Limit Switch - Explosion Resistant OBSOLETE

Where Used
COURION P Style Car Gates - OBSOLETE.
Replace with COURION'S GLS Limit Switch

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
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<tr>
<td>1</td>
<td>07-500400</td>
<td>Sprocket</td>
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<tr>
<td>2</td>
<td>07-500500</td>
<td>Collar</td>
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<tr>
<td>3</td>
<td>07-500700</td>
<td>Threaded Shaft</td>
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<tr>
<td>4</td>
<td>07-501100</td>
<td>Brass Nut</td>
</tr>
<tr>
<td>5</td>
<td>07-502000</td>
<td>Mounting Bracket</td>
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<tr>
<td>6</td>
<td>07-502200</td>
<td>Cover - NEMA 4, 7 &amp; 9</td>
</tr>
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<td>7</td>
<td>07-502300</td>
<td>Retainer Lip</td>
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<td>10</td>
<td>90-824900</td>
<td>Knock-Out Seal</td>
</tr>
<tr>
<td>11</td>
<td>90-983300</td>
<td>Microswitch - Explosion Resistant</td>
</tr>
<tr>
<td>12</td>
<td>90-983301</td>
<td>Actuator Arm</td>
</tr>
</tbody>
</table>

Handed
© Yes  ☐ No
If part is handed, you must specify Right or Left Hand.

Features and Notes

(314) 533-5700 - (800) 533-5760 - sales@couriondoors.com - www.couriondoors.com
07-106402 Gate Sprocket Assembly
Features and Notes
COURION Rotary Sprocket Limit Switch

07-107090 Gate Sprocket Assembly
Features and Notes
COURION Rotary Sprocket Limit Switch - Obsolete
Replace with COURION'S GLS Limit Switch
Available in stainless (Part #: 07-107090S)

07-500302 Micro Switch Bracket
Features and Notes
COURION Rotary Limit Switch

07-500400 Sprocket
Features and Notes
COURION Rotary Limit Switch
Available in stainless (Part #: 07-500400S)
#41B10 with 1/2" bore

07-500500 Collar
Features and Notes
COURION Rotary Limit Switch
Include (1) 3/32 x 3/4 Roll Pin

07-500700 Threaded Shaft
Features and Notes
COURION Rotary Limit Switch
Include (1) 1/8 x 3/4 Roll Pin and (1) 3/32 x 3/4 Roll Pin

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Limit Switches

07-501100 Brass Nut
Features and Notes
COURION Rotary Limit Switch
Handed ○ Yes ○ No

07-502000 Mounting Bracket
Features and Notes
COURION Rotary Limit Switch
Handed ○ Yes ○ No

07-502100 Cover
Features and Notes
COURION Rotary Limit Switch
Handed ○ Yes ○ No

07-502200 Cover - NEMA 4, 7 & 9
Features and Notes
COURION Rotary Limit Switch
Handed ○ Yes ○ No

07-502300 Retainer Lip
Features and Notes
COURION Rotary Limit Switch
Handed ○ Yes ○ No

07-599200 Rotary Limit Switch Assembly - Obsolete
Features and Notes
COURION Rotary Sprocket Limit Switch
Handed ○ Yes ○ No

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Limit Switches

07-599300  Rotary Limit Switch - OBSOLETE
Features and Notes
COURION Rotary Sprocket Limit Switch
Handed ◯ Yes  ◦ No

07-599400  Rotary Limit Switch - Explosion Resistant
OBSELETE
Features and Notes
COURION Rotary Sprocket Limit Switch
Handed ◯ Yes  ◦ No

07-599500  Chain Guard
Features and Notes
COURION Rotary Limit Switch
Handed ◯ Yes  ◦ No

90-806100  Bearing
Features and Notes
COURION Rotary Limit Switch
3/8” Bore x 5/8” OD x 7/8” Flange x 3/8” High Bronze Bearing
Handed ◯ Yes  ◦ No

90-806300  Bearing
Features and Notes
COURION Rotary Limit Switch
1/2” Bore x 5/8” OD x 7/8” Flange x 3/8” High Bronze Bearing
Handed ◯ Yes  ◦ No

90-819700  Chain - #41 Roller
Features and Notes
COURION Rotary Sprocket Limit Switch
Available in Stainless (Part #: 90-819700S)
Include (1) #41 Connecting Link 90-820900)
Handed ◯ Yes  ◦ No

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## Limit Switches

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Features and Notes</th>
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</thead>
<tbody>
<tr>
<td>90-824900</td>
<td>Knock-Out Seal</td>
<td>COURION Rotary Limit Switch</td>
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<tr>
<td></td>
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<td>For 7/8” Dia. Hole</td>
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<tr>
<td>90-875900</td>
<td>Microswitch</td>
<td>COURION Rotary Limit Switch</td>
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<tr>
<td>90-983200</td>
<td>Microswitch</td>
<td>COURION Rotary Sprocket Limit Switch and GLS Limit Switch</td>
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<td></td>
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<td>Electrical Rating - 300VAC, 10A</td>
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<td>Rated suitable for NEMA 1, 2, 3, 4, 7, 9 &amp; 12 environments and is classified IP68.</td>
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<td>UL and CSA Approved</td>
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</tbody>
</table>

Handed  Yes ☑ No ☐

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