ONE COMPANY
So Many Options

RETIRING CAMS

RETIRING CAMS - CAM POWER UNITS - RETIRING CAM CHAINS

Freight Door Systems
Freight Car Enclosures
IUEC Installation
CART-MA-MATIC
TOTE-MATIC
Material Handling Systems
Service Parts
Guilbert
Service Parts
HARRIS PREBLE
Service Parts
Energy
Retiring Cams

Retiring Cam Equipment Layouts

Q Series Layout ..........................................................3
P Series Layout ..........................................................4
Dumbwaiter Layout .......................................................5

Retiring Cam Power Units

Q Series ........................................................................6
P Series .........................................................................7
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Where Used
COURION Freight Doors

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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</thead>
<tbody>
<tr>
<td>1</td>
<td>06-298001</td>
<td>Retiring Cam Assembly</td>
</tr>
<tr>
<td>2</td>
<td>06-520000</td>
<td>Retiring Cam Power Unit - Q Series</td>
</tr>
<tr>
<td>3</td>
<td>06-523800</td>
<td>Retiring Cam Chain - Q Style</td>
</tr>
</tbody>
</table>

Features and Notes
Great design with belt drive for smooth and noiseless operation.

Retiring Cam is handed. CAM Power Unit is not handed.

CAM Power Unit includes Cam Chain.

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

06-10000p Retiring Cam Assembly - P Style

Where Used
COURION Freight Doors

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

<table>
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<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>06-189801</td>
<td>Retiring Cam Chain - P Style</td>
</tr>
<tr>
<td>2</td>
<td>06-199600</td>
<td>Retiring Cam Power Unit - P Series</td>
</tr>
<tr>
<td>3</td>
<td>06-298001</td>
<td>Retiring Cam Assembly</td>
</tr>
</tbody>
</table>

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

Features and Notes
CAM Power Unit and Retiring CAM are both handed.

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Where Used
COURION Dumbwaiter Retiring Cam

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>06-100304</td>
<td>Sheave Assembly</td>
</tr>
<tr>
<td>2</td>
<td>06-400200</td>
<td>Dumbwaiter Retiring Cam Assembly</td>
</tr>
<tr>
<td>3</td>
<td>06-400300</td>
<td>Retiring Cam Motor Bracket</td>
</tr>
<tr>
<td>4</td>
<td>06-400401</td>
<td>Retiring Cam Chain</td>
</tr>
<tr>
<td>5</td>
<td>09-801600</td>
<td>Chain Clip Wire</td>
</tr>
<tr>
<td>6</td>
<td>90-103000</td>
<td>Retiring Cam Air Check</td>
</tr>
<tr>
<td>7</td>
<td>90-819500</td>
<td>Chain - #35 Roller</td>
</tr>
<tr>
<td>8</td>
<td>90-872700</td>
<td>8-Tooth Sprocket</td>
</tr>
<tr>
<td>9</td>
<td>90-958600</td>
<td>Motor - 12oz</td>
</tr>
</tbody>
</table>

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

Features and Notes
Include mounting hardware kits 94-000010 and 94-000040.
Where Used
COURION Q Series Retiring Cam

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>06-523100</td>
<td>Cam Machined Sheave</td>
</tr>
<tr>
<td>2</td>
<td>06-523200</td>
<td>Pivot Pin</td>
</tr>
<tr>
<td>3</td>
<td>06-523500</td>
<td>Link Arm</td>
</tr>
<tr>
<td>4</td>
<td>06-523800</td>
<td>Retiring Cam Chain - Q Style</td>
</tr>
<tr>
<td>5</td>
<td>06-525000</td>
<td>Retiring Cam Power Unit Cover</td>
</tr>
<tr>
<td>6</td>
<td>90-820900</td>
<td>Connecting Link - Straight #41</td>
</tr>
<tr>
<td>7</td>
<td>90-852400</td>
<td>Motor - 16 oz</td>
</tr>
<tr>
<td>8</td>
<td>90-871080</td>
<td>V Belt</td>
</tr>
<tr>
<td>9</td>
<td>90-871175</td>
<td>Sheave</td>
</tr>
<tr>
<td>10</td>
<td>94-000715Q</td>
<td>Q Retiring Cam Power Unit Hardware Kit</td>
</tr>
</tbody>
</table>

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

Features and Notes
Includes Retiring Cam Pick Up Chain (Part #: 06-523800) and Q Retiring Cam Power Unit Hardware Kit #94-000715Q.

If adding to a P Style Car Gate, need to include Mounting Hardware 94-000716Q - P Series Car Gate - Single Section or 94-000717Q - P Series Car Gate - Two Section.

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Where Used
COURION P Series Retiring Cam
Retiring Cam Power Unit without Motor
(Part #: 06-199603)

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>06-111000</td>
<td>Cam Sheave Assembly</td>
</tr>
<tr>
<td>2</td>
<td>06-150301</td>
<td>Cam Power Unit Angle</td>
</tr>
<tr>
<td>3</td>
<td>06-189801</td>
<td>Retiring Cam Chain - P Style</td>
</tr>
<tr>
<td>4</td>
<td>90-103000</td>
<td>Retiring Cam Air Check</td>
</tr>
<tr>
<td>5</td>
<td>90-169203</td>
<td>Master Link</td>
</tr>
<tr>
<td>6</td>
<td>90-852400</td>
<td>Motor - 16 oz</td>
</tr>
</tbody>
</table>

Features and Notes
Includes Mounting Hardware Kit 94-000010.
CAM Power Unit

06-100303 Crank Arm

Where Used
COURION Dumbwaiter Retiring Cam

Features and Notes

06-111000 Cam Sheave Assembly

Where Used
COURION P Series Retiring Cam Power Unit

Features and Notes
Include: (1) External Snap Ring (90-970300), (1) 3/16” x 1-1/4” Roll Pin, (1) 1/8” x 1” Cotter Pin, and (1) 1/2” SAE Flat Washer.

06-139904 Chain Guard Cover

Where Used
COURION P Series Retiring Cam Power Unit

Features and Notes
Included with Retiring Cam Power Unit (Part # 06-199601)

06-150301 Cam Power Unit Angle

Where Used
COURION P Series Retiring Cam Power Unit

Features and Notes
Includes pivot for Retiring Cam Sheave and Air Check.

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<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Where Used</th>
<th>Features and Notes</th>
<th>Handed Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>06-150304</td>
<td>Retiring Cam Power Angle with Cover</td>
<td>COURION P Series Retiring Cam Power Unit</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>06-189801</td>
<td>Retiring Cam Chain - P Style</td>
<td>COURION P Series Retiring Cam Power Unit</td>
<td>23-5/8&quot; #35 Roller Chain Loop with #35 M-1 Link, and 84-3/8&quot; #35 Roller Chain extension to Retiring Cam</td>
<td>Yes</td>
</tr>
<tr>
<td>06-400300</td>
<td>Retiring Cam Motor Bracket</td>
<td>COURION P Series Retiring Cam Power Unit</td>
<td>Include (3) 5/16-18 x 3/4” Carriage Bolts, (3) 5/16 Internal Tooth Washers, and (3) 5/16 -18 Hex Nuts.</td>
<td>Yes</td>
</tr>
<tr>
<td>06-523100</td>
<td>Cam Machined Sheave</td>
<td>COURION Q Series Retiring Cam Power Unit</td>
<td>Include: (1) ¾” Nyliner Flange Bearing (90-871040), (2) .010 x 3/4” Shim Washers, (1) 3/4” Grip Ring (90-871060), and (1) 1/16 x 3/4” Nylon Washer (90-871000).</td>
<td>Yes</td>
</tr>
</tbody>
</table>
**CAM Power Unit**

06-523200  **Pivot Pin**

Where Used
COURION Q Series Retiring Cam Power Unit

Features and Notes
Include: 5/16" Snap Ring (Part #: 90-871020)

Handed ☑ Yes ☐ No

06-523500  **Link Arm**

Where Used
COURION Q Series Retiring Cam Power Unit

Features and Notes
Include: (1) 5/16" Snap Ring (Part #: 90-871020), (1) #41 Straight Link (Part #: 90-820900), (1) 1/2" SAE flat washer, (1) 3/16" x 1-1/4" Roll Pin, and (1) 1/8" x 1" Cotter Pin.

Handed ☑ Yes ☐ No

06-523800  **Retiring Cam Chain - Q Style**

Where Used
COURION Q Series Retiring Cam Power Unit

Features and Notes
#41 Chain - 96" long

Include: (1) CAM Chain Hardware Kit (Part #: 94-000040).

Handed ☑ Yes ☐ No

06-525000  **Retiring Cam Power Unit Cover**

Where Used
COURION Q Series Retiring Cam Power Unit

Features and Notes
Include: (5) #10-32 x 1/2" PHTMS

Handed ☑ Yes ☐ No

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CAM Power Unit

90-021700 6-Tooth sprocket with set screws
Where Used
COURION P Series Retiring Cam Power Unit

Features and Notes
Available in stainless
Include: 5/16”-18 x 1/4” Set Screw

Handed □ Yes □ No

90-103000 Retiring Cam Air Check
Where Used
COURION P Series Retiring Cam Power Unit

Features and Notes
Freight Door Retiring Cam Include: (1) 1/8” x 1” Cotter Pin, (1) 1/2” SAE Flat Washer, (1) 5/8” External Snap Ring (90-970300), and (1) 3/8” External Snap Ring (90-869200)
Dumbwaiter Retiring Cam Include: (1) 1/8” x 1” Cotter Pin, (3) 1/2” Flat Washers, (1) 3/16” x 3/4” Split Roll Pin, (3) 3/8” Wrot Washers, and (1) 3/32” x 3/4” Cotter Pin.

Handed □ Yes □ No

90-169203 Master Link
Where Used
COURION Retiring Cam Chain Assemblies (Part #: 06-189800 and 06-189801)
COURION Dumbwaiter Retiring Cam Chain Assemblies (Part #: 06-400401)

Features and Notes
Available in stainless.
#35 M-1 Link

Handed □ Yes □ No

90-852100 Motor - 16 oz
Where Used
COURION Q and P Series Retiring Cam Power Unit

Features and Notes
600 RPM, 16 oz, 115v, 2.5 amps
Include: (5) 5/16”-18 x 1” Carriage Bolts, (5) 5/16” Flat Washers, (5) 5/16” Split Lock Washers, and (5) 5/16”-18 Hex Nuts.

Handed □ Yes □ No

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## CAM Power Unit

### 90-852400  Motor - 16 oz

**Where Used**
COURION Q and P Series Retiring Cam Power Unit

**Features and Notes**
- 600 RPM, 16 oz. 220v .8 amps, 3-Phase.
- Include: (5) 5/16”-18 x 1” Carriage Bolts, (5) 5/16” Flat Washers, (5) 5/16” Split Lock Washers, and (5) 5/16”-18 Hex Nuts.

### 90-852500  Motor - 16 oz (Explosion Resistant)

**Where Used**
COURION Q and P Series Retiring Cam Power Unit

**Features and Notes**
- 600 RPM, 16 oz. 220V - Explosion Resistant (Class I, Div 1 & 2, Group D)(Class II, Div 1 & 2, Group F & G), 3-Phase
- Include: (5) 5/16”-18 x 1” Carriage Bolts, (5) 5/16” Flat Washers, (5) 5/16” Split Lock Washers, and (5) 5/16”-18 Hex Nuts.

### 90-871080  V Belt

**Where Used**
COURION Q Series Retiring Cam Power Unit

**Features and Notes**

### 90-871175  Sheave

**Where Used**
COURION Q Series Retiring Cam Power Unit

**Features and Notes**
- 1-3/4 od with 5/8” bore

---

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# CAM Power Unit

## 90-958600 Motor - 12oz

**Where Used**
COURION Retiring Cam with Manual Freight Doors and COURION Dumbwaiter Retiring Cams

**Features and Notes**
- 600 RPM, 12 oz. 220v 0.8 amps, 3-Phase
- Freight Door Retiring Cam Includes: (5) 5/16"-18 x 1" Carriage Bolts, (5) 5/16" Flat Washers, (5) 5/16" Split Lock Washers, and (5) 5/16"-18 Hex Nuts. Dumbwaiter Retiring Cam Includes (5) 1/4-20 x 3/4" Carriage Bolts, (5) 1/4" Flat Washers, (5) 1/4" Split Lock Washers, and (5) 1/4-20 Hex Nuts.

**Handed**
- Yes
- No

## 94-000010 Retiring Cam Power Unit Hardware Kit

**Where Used**
COURION P Series Retiring Cam Power Unit

**Features and Notes**
Includes T-Bolt for Retiring Cam Mount

## 94-000040 Retiring Cam Chain Hardware Kit

**Where Used**
COURION Q and P Series Retiring Cam Power Unit

**Features and Notes**
Includes necessary mounting hardware and chain links

## 94-000715Q Q Retiring Cam Power Unit Hardware Kit

**Where Used**
COURION Q Series Retiring Cam Power Units on Q Series Car Gate

**Features and Notes**

---

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**CAM Power Unit**

**94-000716Q**  
**Q Retiring Cam Power Unit Retrofit Hardware Kit - Single Section P Style Gate**

**Where Used**  
When adding a COURION Q Series Retiring Cam Power Units to a COURION P Series Single Section Car Gate.

**Features and Notes**

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

**94-000717Q**  
**Q Retiring Cam Power Unit Retrofit Hardware Kit - 2-Section P Style Gate**

**Where Used**  
When adding a COURION Q Series Retiring Cam Power Units to a COURION P Series 2-Section Car Gate.

**Features and Notes**

<table>
<thead>
<tr>
<th>Handed</th>
<th>Yes</th>
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</tr>
</thead>
</table>

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Retiring Cams

06-298001  Retiring Cam Assembly

Where Used
COURION Q and P Series Retiring Cam

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

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<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
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<tr>
<td>1</td>
<td>06-212000</td>
<td>Retiring Cam Face</td>
</tr>
<tr>
<td>2</td>
<td>06-222300</td>
<td>Retiring Cam Arm</td>
</tr>
<tr>
<td>3</td>
<td>09-102201</td>
<td>Rubber Bumper</td>
</tr>
<tr>
<td>4</td>
<td>94-000010</td>
<td>Retiring Cam Power Unit Hardware Kit</td>
</tr>
<tr>
<td>5</td>
<td>94-000040</td>
<td>Retiring Cam Chain Hardware Kit</td>
</tr>
</tbody>
</table>

Handed

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

Features and Notes
Includes Retiring Cam Hardware Kits #94-000010 and 94-000040

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<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Where Used</th>
<th>Features and Notes</th>
<th>Handed</th>
</tr>
</thead>
<tbody>
<tr>
<td>06-205000</td>
<td>Fixed Cam</td>
<td>COURION Q Series Manual Freight Doors</td>
<td>Includes mounting hardware kit 94-000708Q.</td>
<td>Yes</td>
</tr>
<tr>
<td>06-212000</td>
<td>Retiring Cam Face</td>
<td>COURION “Q” and “P” Series Retiring Cam</td>
<td>Need to include (3) 1/2”-13 x 1” Shoulder Bolts, (7) 1/2 x 1/14” OD Nylon Flat Washers, and (3) 1/2”-13 Hex Lock Nuts.</td>
<td>No</td>
</tr>
<tr>
<td>06-222300</td>
<td>Retiring Cam Arm</td>
<td>COURION “Q” and “P” Series Retiring Cam</td>
<td>Need to include (3) 1/2” x 1” Shoulder Bolts, (3) 1/2”-13 x 1-1/2” Shoulder Bolts, (13) 1/2 x 1/14” OD Nylon Flat Washers, and (5) 1/2”-13 Hex Lock Nuts.</td>
<td>No</td>
</tr>
<tr>
<td>08-900700</td>
<td>Stationary Cam Assembly</td>
<td>COURION Manual Freight Doors with HG Interlocks</td>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>
09-102201  Rubber Bumper
Where Used
COURION “P” Series Retiring Cam
Features and Notes

Handed ☐ Yes ☑ No

90-000501  Chain Bolt
Where Used
COURION Retiring Cam
Features and Notes

Handed ☐ Yes ☑ No

90-000506  Retiring Cam Bolt
Where Used
COURION “P” Series Retiring Cam
Features and Notes
COURION “P” Series Retiring Cam

Handed ☐ Yes ☑ No

94-000708Q  Fixed Cam Hardware Kit
Where Used
COURION “Q” Series Fixed Cam
Features and Notes

Handed ☐ Yes ☑ No

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