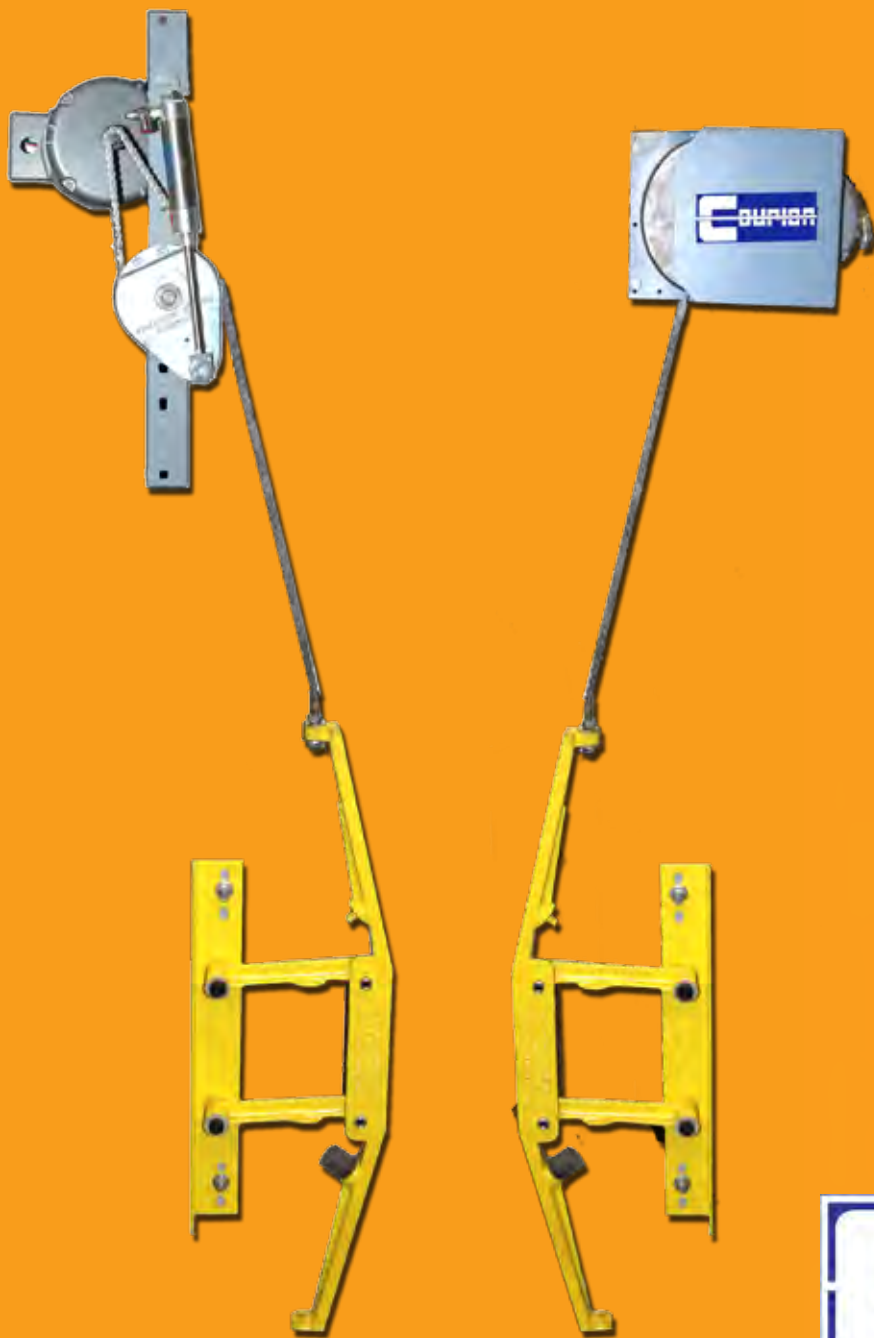


RETIRING CAMS

RETIRING CAMS - CAM POWER UNITS - RETIRING CAM CHAINS



ONE COMPANY
So Many Options



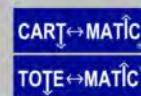
Freight Door Systems



Freight Car Enclosures



IUEC Installation



Material Handling
Systems



Service Parts



Service Parts



HARRIS PREBLE

Service Parts

ENERGY.

Service Parts



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
Retiring Cam Power Unit Parts	8

Retiring and Fixed Cams	15
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Retiring Cams

06-10000Q

Retiring Cam Assembly - Q Style

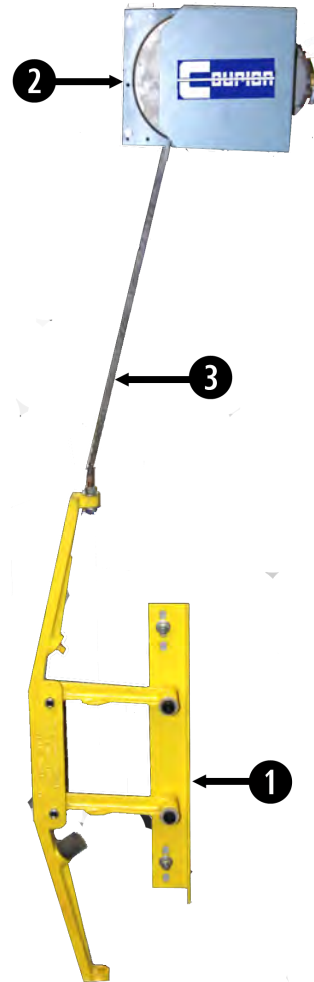
Where Used

COURION Freight Doors

Sub Assemblies

(For additional details - see pages that follow)

Item #	Part #	Part Description
1	06-298001	Retiring Cam Assembly
2	06-520000	Retiring Cam Power Unit - Q Series
3	06-523800	Retiring Cam Chain - Q Style



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

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.



Retiring Cams

06-10000p

Retiring Cam Assembly - P Style

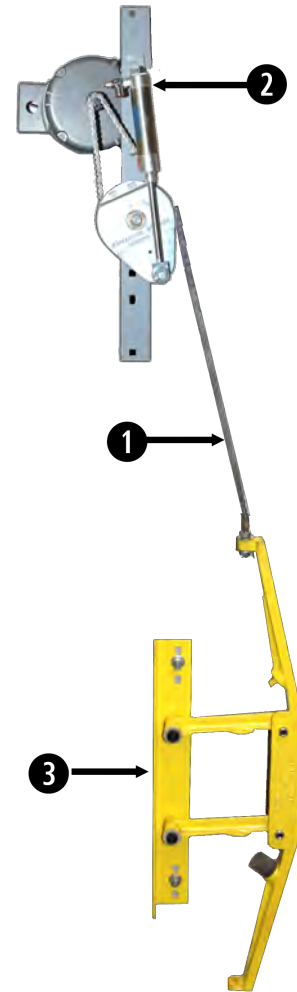
Where Used

COURION Freight Doors

Sub Assemblies

(For additional details - see pages that follow)

Item #	Part #	Part Description
1	06-189801	Retiring Cam Chain - P Style
2	06-199600	Retiring Cam Power Unit - P Series
3	06-298001	Retiring Cam Assembly



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.



Retiring Cams

06-10000DW

Retiring Cam Assembly - Dumbwaiter

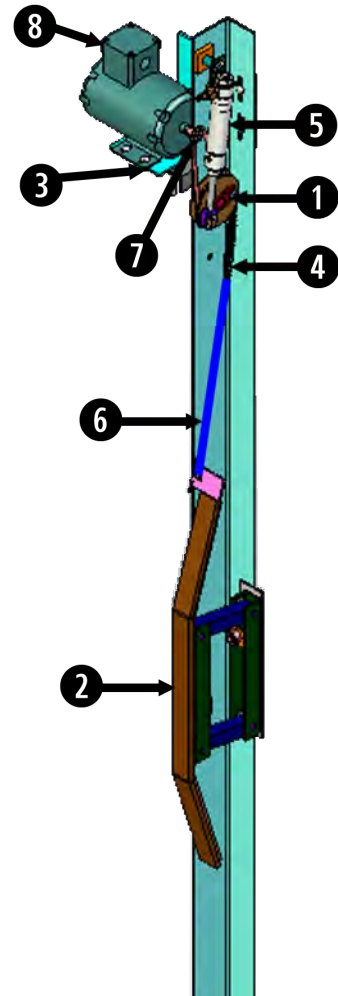
Where Used

COURION Dumbwaiter Retiring Cam

Sub Assemblies

(For additional details - see pages that follow)

Item #	Part #	Part Description
1	06-100304	Sheave Assembly
2	06-400200	Dumbwaiter Retiring Cam Assembly
3	06-400300	Retiring Cam Motor Bracket
4	06-400401	Retiring Cam Chain
5	09-801600	Chain Clip Wire
6	90-103000	Retiring Cam Air Check
7	90-819500	Chain - #35 Roller
8	90-872700	8-Tooth Sprocket
9	90-958600	Motor - 12oz



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.



Retiring Cams

06-520000

Retiring Cam Power Unit - Q Series

Where Used

COURION Q Series Retiring Cam

Sub Assemblies

(For additional details - see pages that follow)

Item #	Part #	Part Description
1	06-523100	Cam Machined Sheave
2	06-523200	Pivot Pin
3	06-523500	Link Arm
4	06-523800	Retiring Cam Chain - Q Style
5	06-525000	Retiring Cam Power Unit Cover
6	90-820900	Connecting Link - Straight #41
7	90-852400	Motor - 16 oz
8	90-871080	V Belt
9	90-871175	Sheave
10	94-000715Q	Q Retiring Cam Power Unit Hardware Kit



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



Retiring Cams

06-199600

Retiring Cam Power Unit - P Series

Where Used

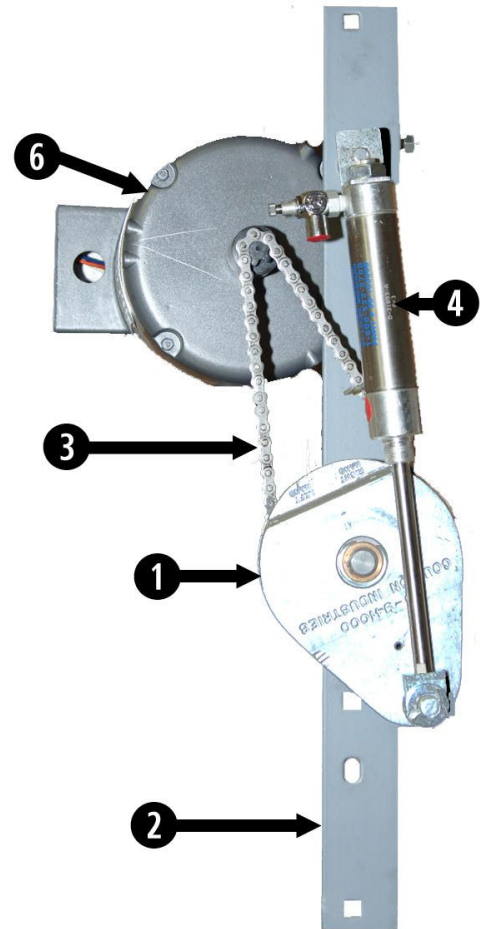
COURION P Series Retiring Cam

Retiring Cam Power Unit without Motor
(Part #: 06-199603)

Sub Assemblies

(For additional details - see pages that follow)

Item #	Part #	Part Description
1	06-111000	Cam Sheave Assembly
2	06-150301	Cam Power Unit Angle
3	06-189801	Retiring Cam Chain - P Style
4	90-103000	Retiring Cam Air Check
5	90-169203	Master Link
6	90-852400	Motor - 16 oz



Handed
☒ Yes ☐ No

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

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

Handed ☐ Yes ☒ No

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.



Handed ☐ Yes ☒ No

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)



Handed ☐ Yes ☒ No

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.



Handed ☒ Yes ☐ No

CAM Power Unit

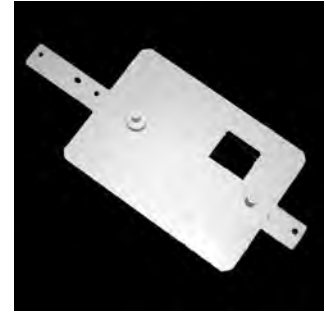
06-150304

Retiring Cam Power Angle with Cover

Where Used

COURION P Series Retiring Cam Power Unit

Features and Notes



Handed ☒ Yes ☐ No

06-189801

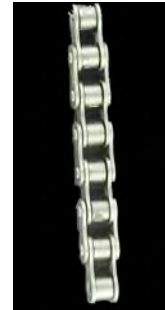
Retiring Cam Chain - P Style

Where Used

COURION P Series Retiring Cam Power Unit

Features and Notes

23-5/8" #35 Roller Chain Loop with #35 M-1 Link, and 84-3/8" #35 Roller Chain extension to Retiring Cam



Handed ☐ Yes ☒ No

06-400300

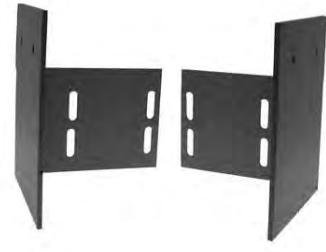
Retiring Cam Motor Bracket

Where Used

COURION P Series Retiring Cam Power Unit

Features and Notes

Include (3) 5/16-18 x 3/4" Carriage Bolts, (3) 5/16 Internal Tooth Washers, and (3) 5/16-18 Hex Nuts.



Handed ☒ Yes ☐ No

06-523100

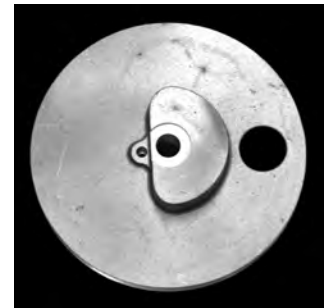
Cam Machined Sheave

Where Used

COURION Q Series Retiring Cam Power Unit

Features and Notes

Include: (1) 3/4" 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).



Handed ☐ Yes ☒ No

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

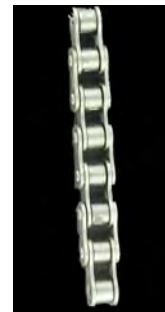
Where Used

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

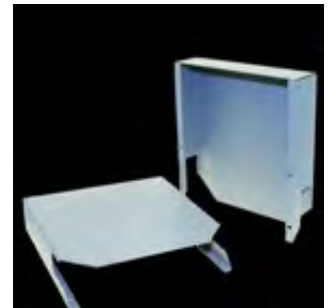
06-525000 Retiring Cam Power Unit Cover

Where Used

COURION Q Series Retiring Cam Power Unit

Features and Notes

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



Handed ☐ Yes ☒ No

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

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.



Handed ☐ Yes ☒ No

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.



Handed ☐ Yes ☒ No

90-871080 V Belt

Where Used

COURION Q Series Retiring Cam Power Unit

Features and Notes

Handed ☐ Yes ☒ No

90-871175 Sheave

Where Used

COURION Q Series Retiring Cam Power Unit

Features and Notes

1-3/4 od with 5/8" bore



Handed ☐ Yes ☒ No

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

RETIRING CAM POWER UNIT
Courion Part #: 94-000010

(3) 3/8-16 x1" Carriage Bolt (CB)
(3) 3/8 Split Lock Washer (LW)
(3) 3/8 Flat Washer (FW)
(3) 3/8-16 Hex Nut
(2) Retiring Cam T-Bolt

COURION 1-800-533-5760 OR 1-314-533-5700

Handed ☐ Yes ☒ No

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

COMPOUND CHAIN & RETIRING CAM HARDWARE KIT
Courion Part #: 94-000040

(1) Chain bolt (90-000506)
(2) 3/8-16 hex nut
(2) 3/8 FW washer
(1) 3/32 x 3/4 cotter pin
(1) #41RC straight connection link

COURION 1-800-533-5760 OR 1-314-533-5700

Handed ☐ Yes ☒ No

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

CAM POWER UNIT HARDWARE KIT
Courion Part #: 94-000715Q

(5) 3/8-16 x 1-1/4 Hex Head Cap Screw (HHCS)
(5) 3/8 Spring Lock Washer
(2) 3/8 Flat Washer
(5) 3/8-16 Hex nuts
(1) Brace (#06-522000)
(1) Drawing QG 2110

COURION 1-800-533-5760 OR 314-533-5700

Handed ☐ Yes ☒ No

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

CAM POWER UNIT RETROFIT HARDWARE KIT Single Section Gate Courion Part #: 94-000716Q
(2) 3/8-16 x 1-1/4 Hex Head Cap Screw (HHCS) - (2) 3/8 Spring Lock Washer - (5) 3/8 Flat Washer - (2) 3/8-16 Hex nuts - (1) CPU Adaptor Plate (#06-527000) - (1) CPU Stabilizer (#06-527500) - (1) Drawing PG2111 - (1) Drawing PG2112
COURION 1-800-533-5760 OR 314-533-5700

Handed ☐ Yes ☒ No

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

CAM POWER UNIT RETROFIT HARDWARE KIT 2-Section Gate Courion Part #: 94-000717Q
(2) 3/8-16 x 1-1/4 Hex Head Cap Screw (2) 3/8 Spring Lock Washer (5) 3/8 Flat Washer (2) 3/8-16 Hex nuts (1) CPU Adaptor Plate (#06-527000) (1) CPU Stabilizer (#06-527600) (1) Drawing PG2113 and (1) Drawing PG2114
COURION 1-800-533-5760 OR 314-533-5700

Handed ☐ Yes ☒ No



Retiring Cams

06-298001

Retiring Cam Assembly

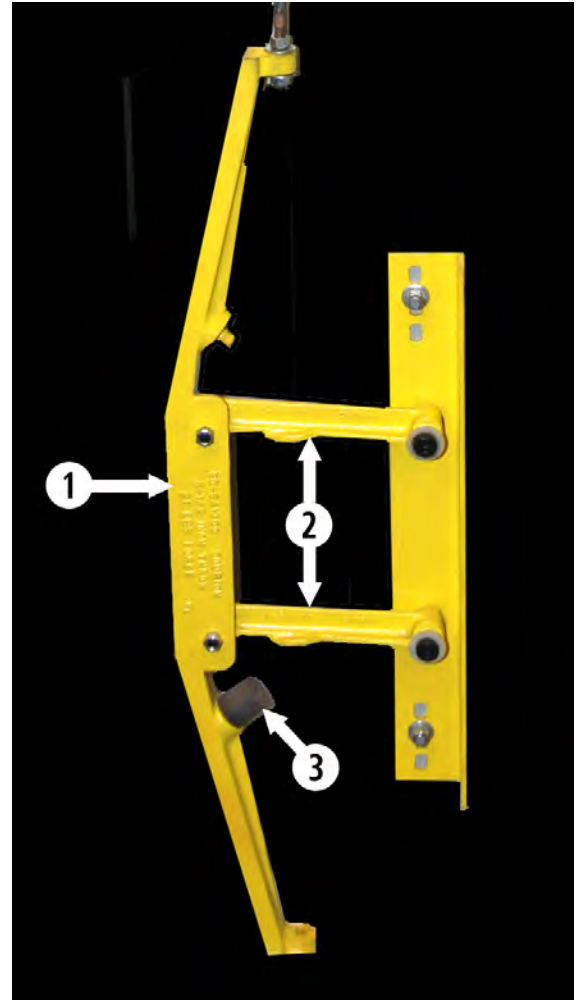
Where Used

COURION Q and P Series Retiring Cam

Sub Assemblies

(For additional details - see pages that follow)

Item #	Part #	Part Description
1	06-212000	Retiring Cam Face
2	06-222300	Retiring Cam Arm
3	09-102201	Rubber Bumper
4	94-000010	Retiring Cam Power Unit Hardware Kit
5	94-000040	Retiring Cam Chain Hardware Kit



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

CAM

06-205000 Fixed Cam

Where Used

COURION Q Series Manual Freight Doors

Features and Notes

Includes mounting hardware kit 94-000708Q.



Handed ☐ Yes ☒ No

06-212000 Retiring Cam Face

Where Used

COURION "Q" and "P" Series Retiring Cam

Features and Notes

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.



Handed ☐ Yes ☒ No

06-222300 Retiring Cam Arm

Where Used

COURION "Q" and "P" Series Retiring Cam

Features and Notes

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.



Handed ☐ Yes ☒ No

08-900700 Stationary Cam Assembly

Where Used

COURION Manual Freight Doors with HG Interlocks

Features and Notes

Handed ☐ Yes ☒ No

CAM

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

FIXED CAM HARDWARE KIT Courion Part #: 94-000708Q
(2) 3/8" Flat washer
(2) 3/8" Spring Lock washer
(2) 3/8-16 Hex nuts
(2) 3/8 "T" bolts (#21-708100)
COURION 1-800-533-5760 OR 314-533-5700

Handed ☐ Yes ☒ No

