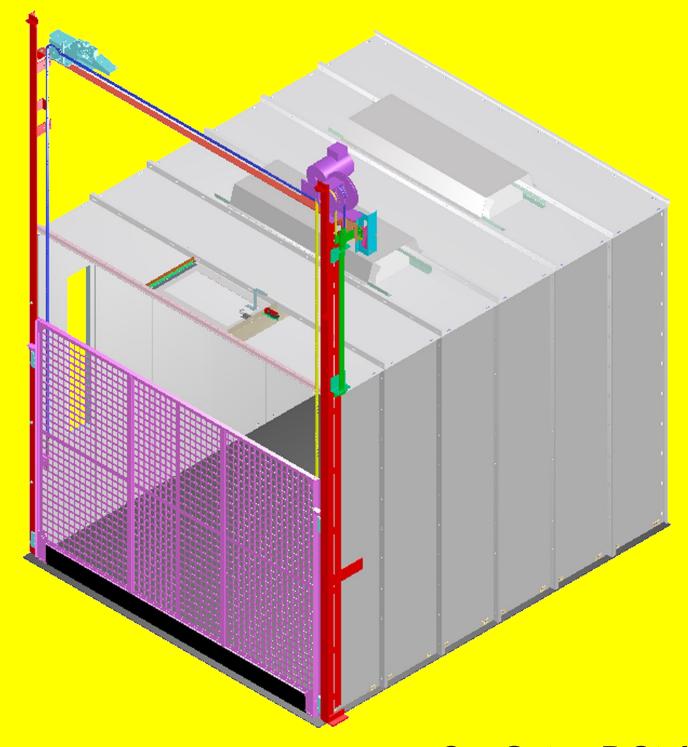


THE NEXT GENERATION OF FREIGHT ELEVATOR DOORS



Car Gate - P Style
Installation Instructions

CAR GATE - P Style

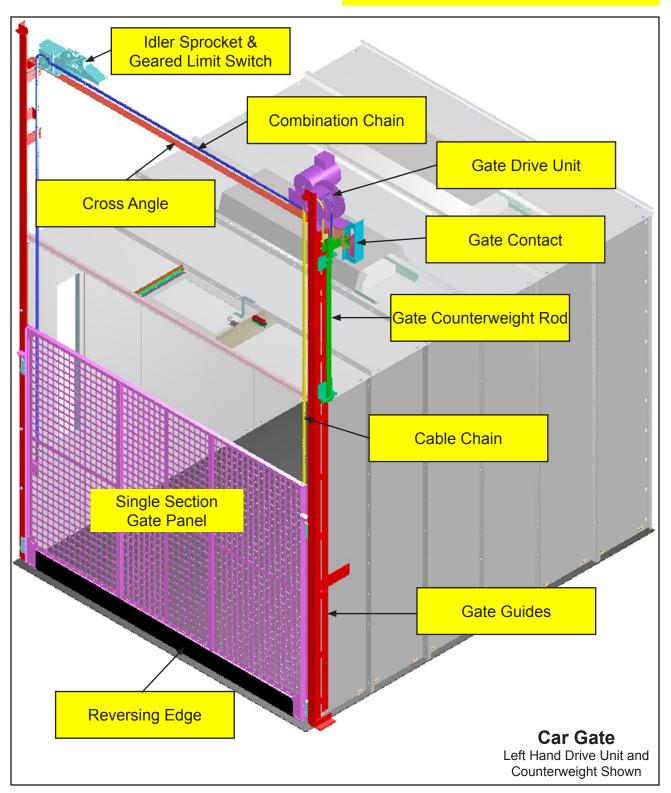
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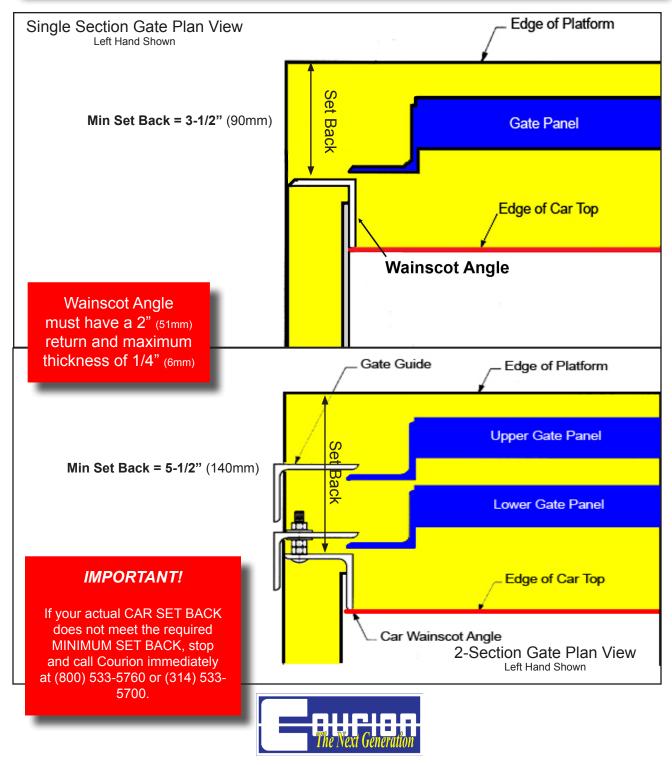




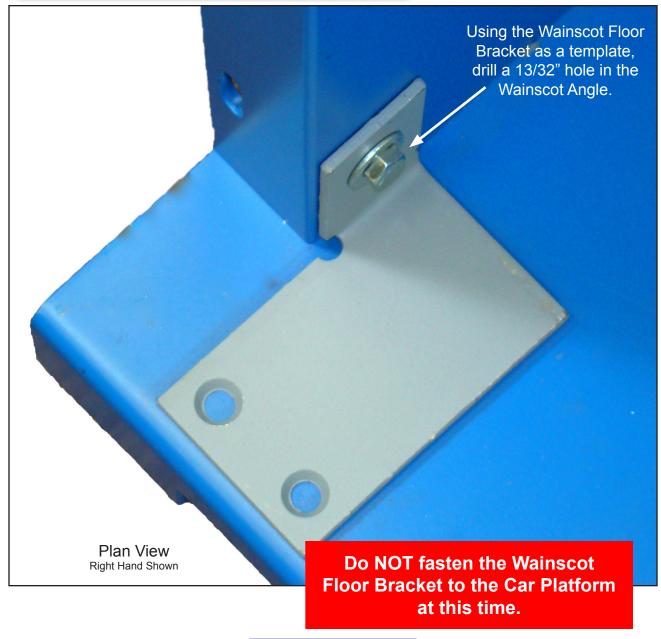


CAR GATE - P Style

Check Car Enclosure Set Back - Insure that the Car Enclosure is properly **SET BACK** from the edge of the Platform and that the Wainscot Mounting Angle is the proper size and contains the proper mounting holes.







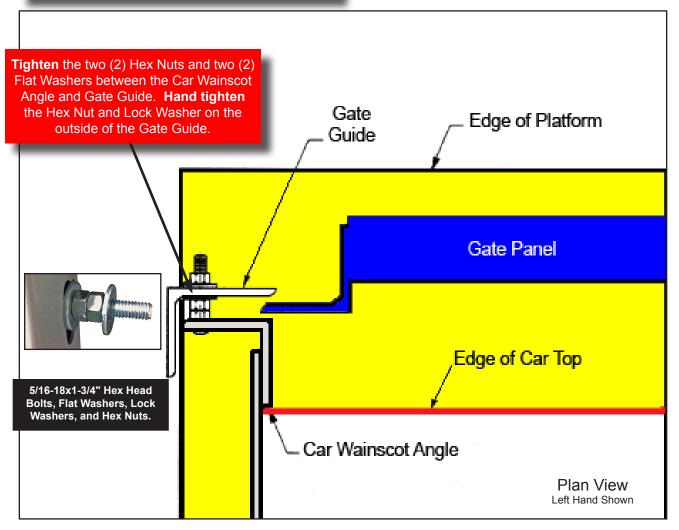


CAR GATE - P Style

Attach the **GATE GUIDES** to the Car Enclosure Wainscot Angle.

(1 pr) Gate Guides (Left and Right Hand)

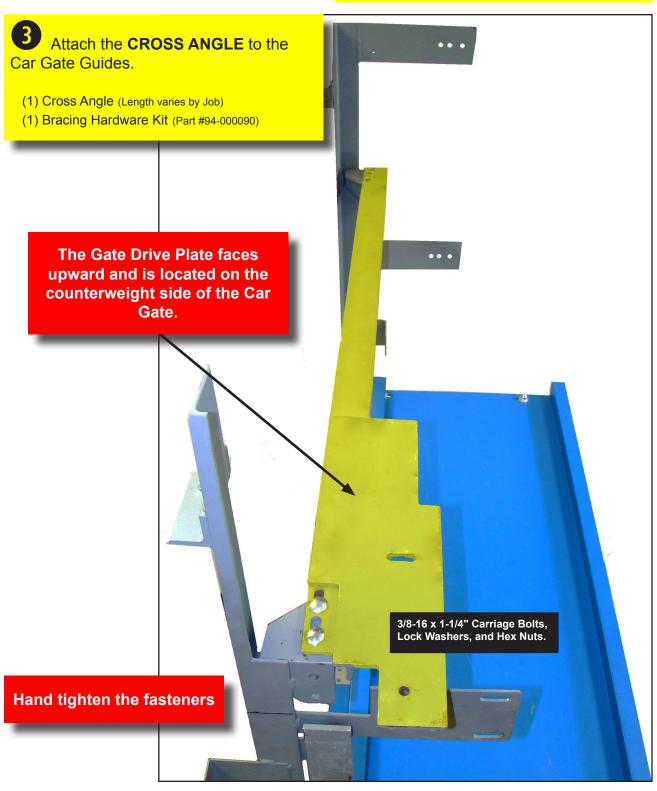
(1) Gate Guide Hardware Kit (Part #94-000070)



Gate Guide Hole Pattern (Typical)							
Hole Size (diameter)	First Hole from Platform	Distance on Center	From Outside Edge				
13/32 (10mm)	3" (76mm)	18" (457mm)	7/16" (11mm)				

If you did not purchase the Car Enclosure from Courion, you may have to drill the Gate Guide mounting holes in the Car Wainscot Angle. With the Gate Guide resting on the Car Platform, use the Gate Guide as a template to mark and drill the necessary mounting holes.













CAR GATE - P Style

Adjust the Gate Guides to the proper horizontal distance between guides (D.B.G.) and plumb the Guides.

Using a tape measure and level, plumb and adjust the GATE GUIDES to the proper horizontal distance as shown on COURION DRAWING PO-310-71C.

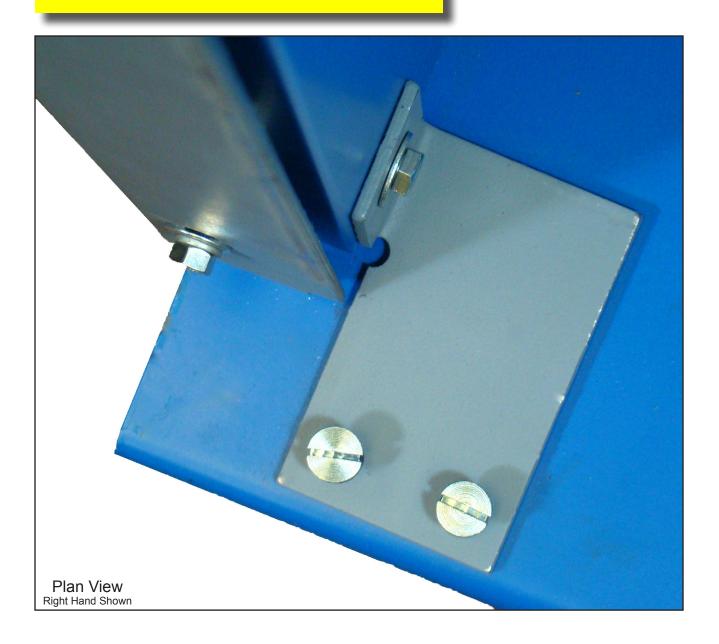
When Gate Guides are plumb and true, tighten all Car Gate Guide, Cross Angle, and Knee Brace fasteners



CAR GATE - P Style

Fasten each WAINSCOT FLOOR BRACKET to the Car Platform.

(1) Wainscot Floor Bracket Hardware Kit #100 (Part#94-000100)

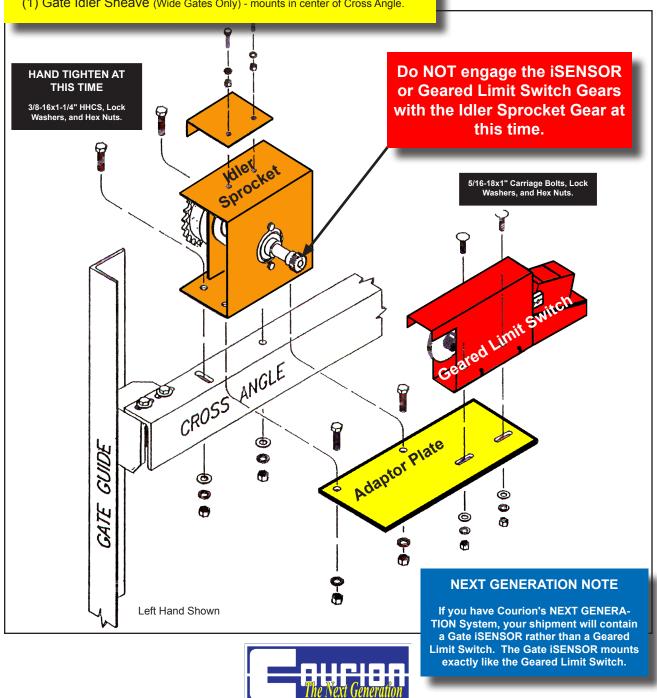




CAR GATE - P Style

Mount the IDLER SPROCKET and GEARED LIMIT **SWITCH** to the Cross Angle on the side OPPOSITE the Gate Drive Unit Mounting Plate.

- (1) Geared Limit Switch Retro Fit Kit (Part #07-611000) or Gate iSENSOR with iSENSOR Retro Fit Kit
- (1) Gate Idler Sheave (Wide Gates Only) mounts in center of Cross Angle.





- (1) Gate Drive Unit
- (1) Gate Drive Hardware Kit #20 (Part#94-000020)



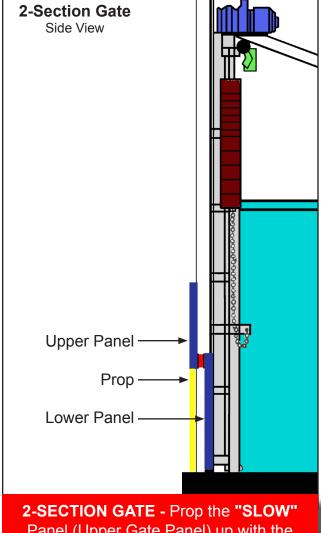


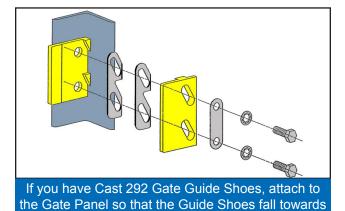
CAR GATE - P Style



9 Fit the CAR GATE PANEL between the Gate Guides and attach the GATE SHOES in place.

- (1) Car Gate Panel
- (1) Car Gate Shoes

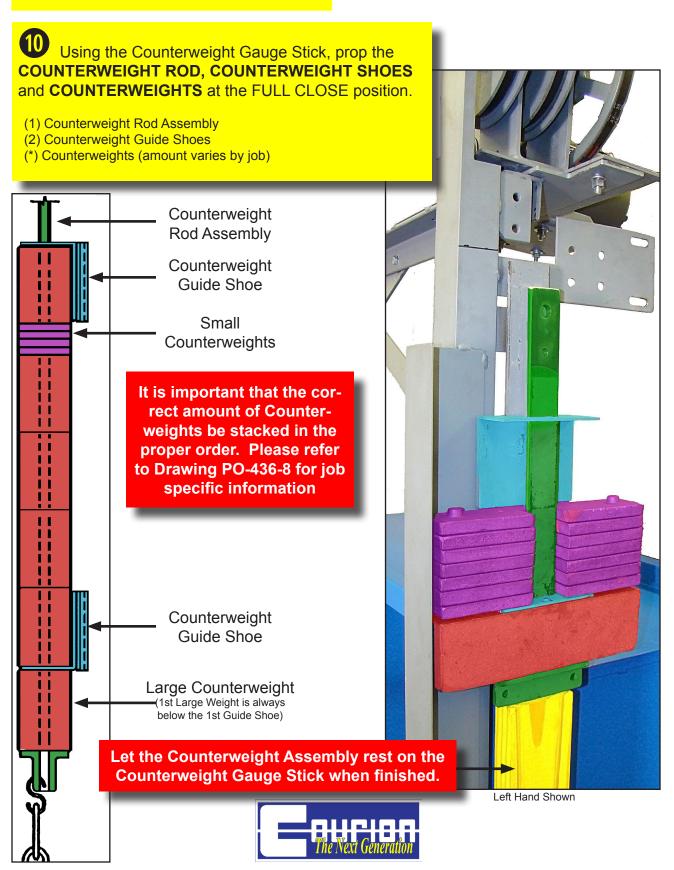


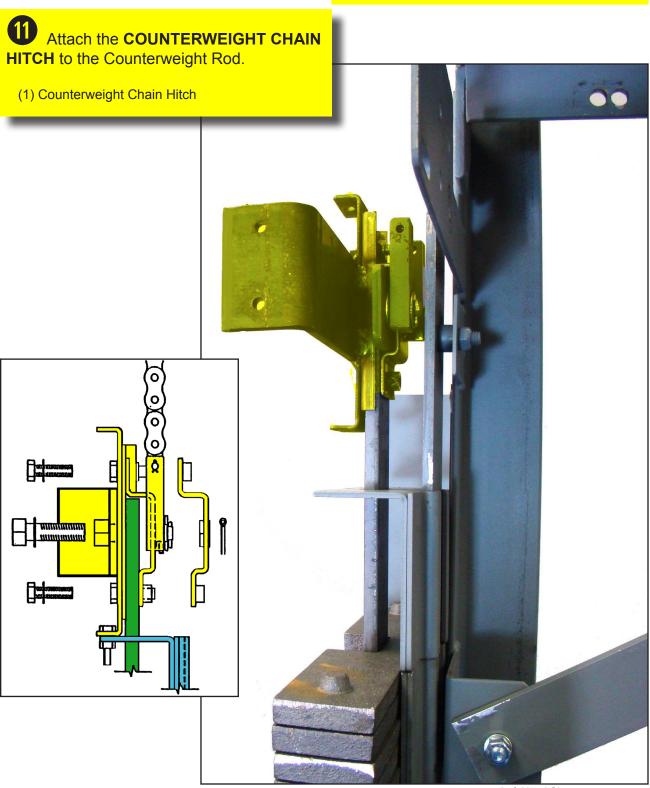


the Gate Panel.

Panel (Upper Gate Panel) up with the wood props supplied by Courion. Install the "FAST" Panel (Lower Gate Panel with Reversing Edge) resting on the Platform.







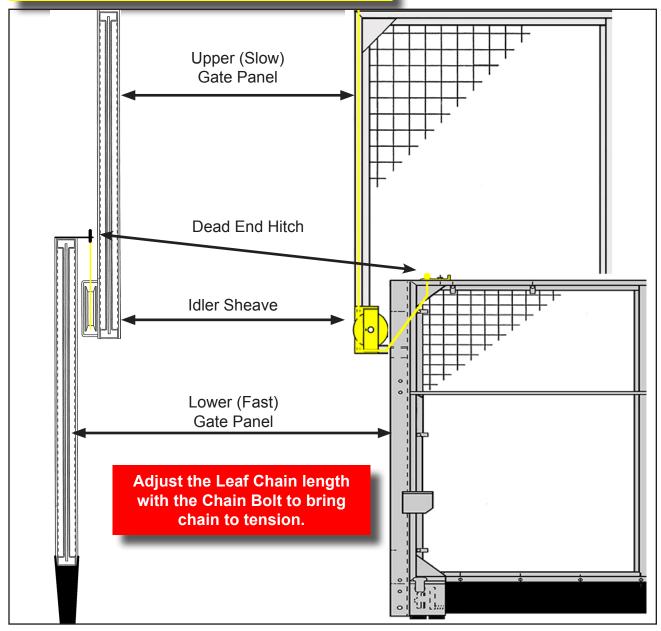


Left Hand Shown

CAR GATE - P Style

2-SECTION GATE ONLY - Feed the LEAF CHAIN from the Dead End Hitch on Top of the Lower Gate Panel, AROUND the Idler Sheave on the Upper Gate Panel and UP to the Gate Guide Hitch at the Top of the Gate Guide. Attach with #41 Chain Links

(1) Leaf Chain (AL-422 Chain) with Chain Bolt

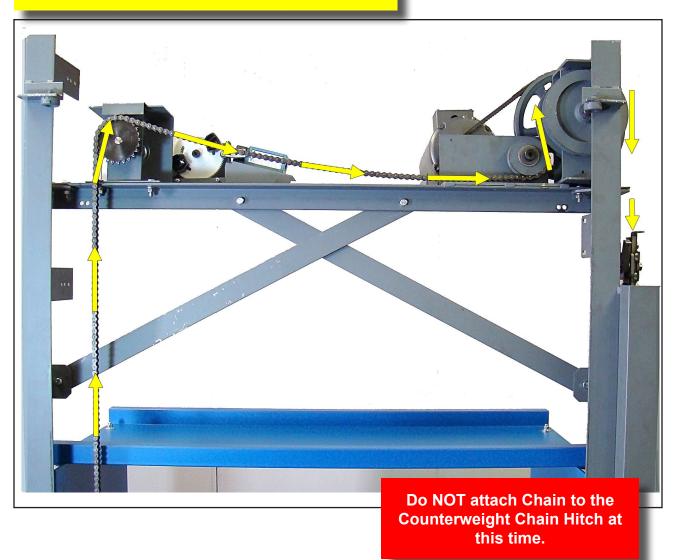




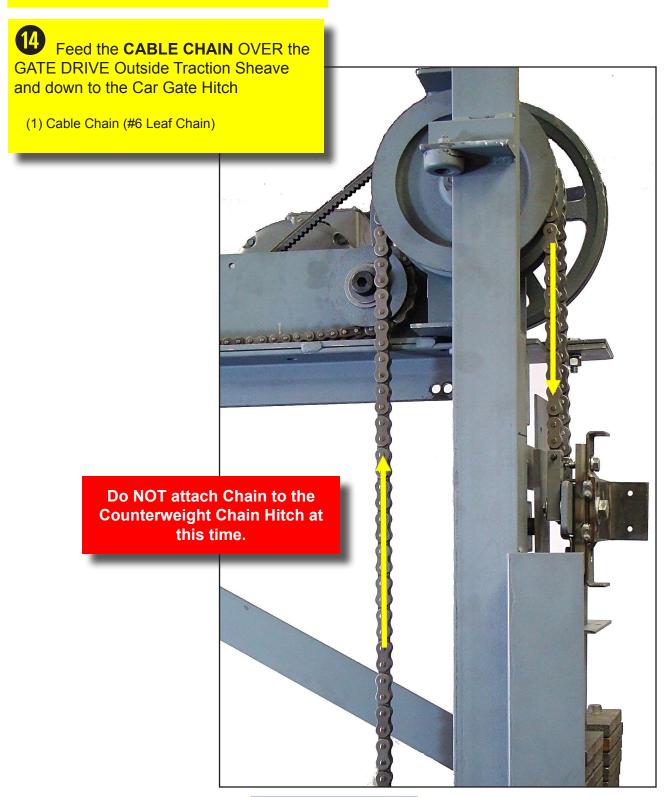
CAR GATE - P Style

Feed the **COMBINATION CHAIN** from the Car Gate Hitch OVER the IDLER SPOCKET, ACROSS the CAR TOP, UNDER the DRIVE UNIT IDLER SHEAVE, and OVER the GATE DRIVE Inbound Traction Sheave

(1) Combination Chain (#6 & #40 Chain)







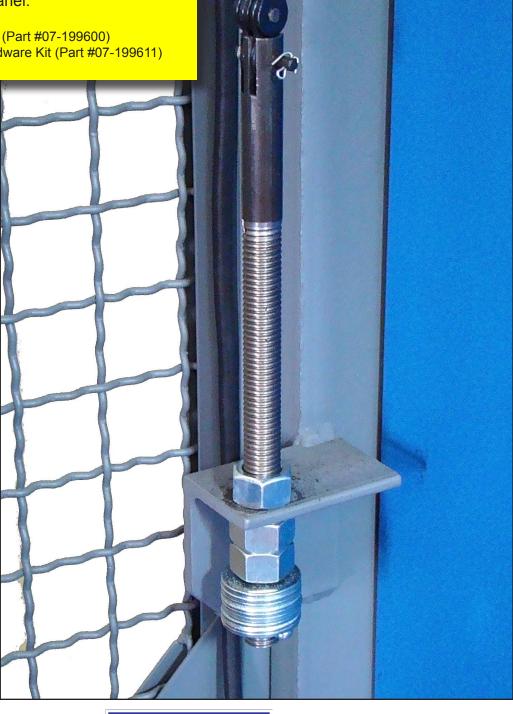


CAR GATE - P Style

Attach the 10" CHAIN BOLTS to each Chain and the Car Gate Hitch on both sides of the Car Gate Panel.

(2) 5/8" Chain Bolts (Part #07-199600)

(1) Gate Chain Hardware Kit (Part #07-199611)



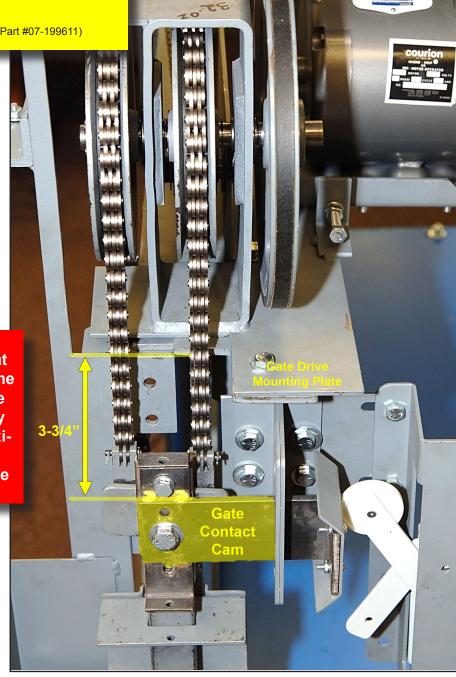


CAR GATE - P Style

With the Counterweight and the Car Gate Panel in the FULL CLOSE position, cut the Gate Chains to proper length and attach to the Counterweight Chain Hitch.

(1) Gate Chain Hardware Kit (Part #07-199611)

When the Gate Panel is at FULL CLOSE, the top of the Gate Contact Cam on the Counterweight Assembly should be located approximately 3-3/4" below the Gate Drive Mounting Plate





CAR GATE - P Style

Properly align the INBOARD TRAC-TION SHEAVE of the **GATE DRIVE UNIT** with the centerline of the **IDLER SPROCKET** and tighten both into place.



Gate Drive must be directly in line with the centerline of the Idler Sprocket or the Gate Chain may not function properly during Gate operation.

Remove the Counterweight Prop. Car Gate should now operate manually. Adjust the **GATE CHAIN BOLTS** to insure the Car Gate Panel is level. Adjust the **GATE GUIDE SHOES** so there is approximately 1/8" (4mm) side-to-side play in between the Guide Rails. When done, the Gate Panel should move smoothly and easily within the Guides.

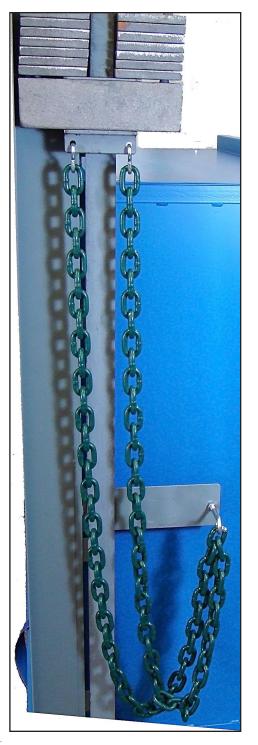


CAR GATE - P Style

Attach the **COMPENSATION CHAIN** to the Compensation Chain Plate on the Gate Guide and the underside of the Counterweight stack.

(1) Compensation Chain

The purpose of the Compensation
Chain is to "compensate" for the weight
transfer as Car Gate moves from FULL
OPEN to FULL CLOSE.

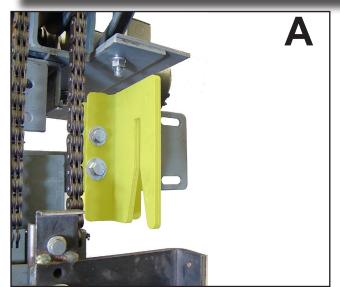


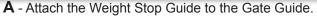


CAR GATE - P Style

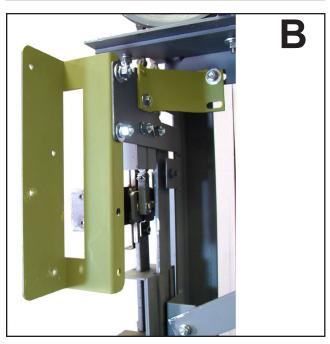
Install the WEIGHT STOP GUIDE, CROSS ANGLE BRACKET, GATE CONTACT MOUNTING BRACKET, GATE CONTACT CAM, and GATE CONTACT to the Gate Guide on the Gate Counterweight side of the hoistway

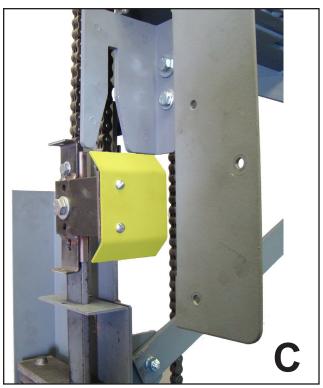
- (1) Gate Contact
- (1) Gate Contact Hardware Kit #150 (Part #94-000150)





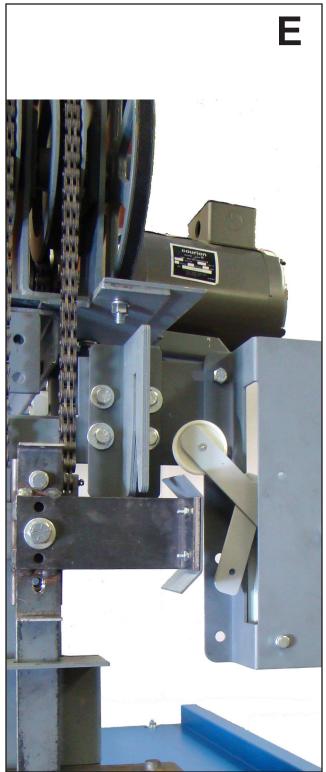
- **B** Attach the Cross Angle Bracket and Gate Contact Mounting Bracket to the Gate Guide.
- **C** Attach the Gate Contact Cam to the Contact Cam Arm.
- **D** Attach the Gate Contact to the Gate Contact Mounting Bracket.
- **E** Adjust the Position of the Gate Contact to insure proper actuation when the Gate is at FULL CLOSE.











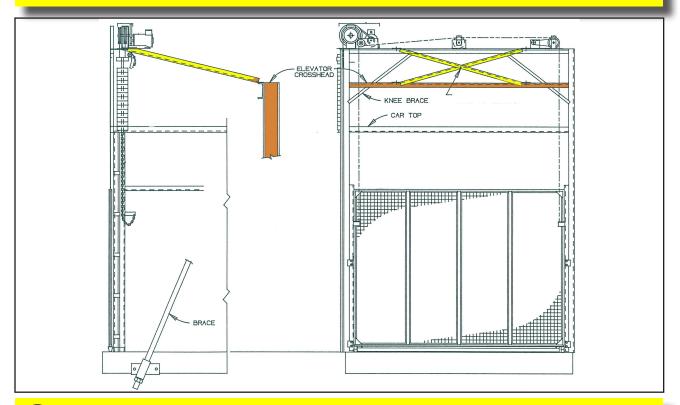


CAR GATE - P Style

Install an electrical junction box on the Gate Cross Angle for the **REVERSING EDGE** Drop Cord. Be sure the location does not interfere with operation of the Car Gate.
Connect the provided Reversing Edge Cable from the junction box to the Reversing Edge Switch. You may need to cut the cable length to suit your installation. Use the cable clips provided on the Car Gate Panel to restrict movement of the Reversing Edge Cable.

Install suitable bracing between the Gate CROSS ANGLE and the Elevator Crosshead to stabilize the Gate Guides.

Cross Angle Bracing - required to be cut to length



Attach the WEB STRAPS to the Gate Panel

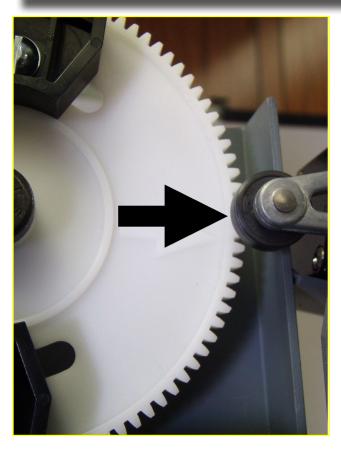
Web Straps



CAR GATE - P Style

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If you have a **GEARED LIMIT SWITCH**, please make the following adjustments.



With the Gate Panel positioned in its 1/2 Open position and the Geared Limit Switch NOT engaged with the Idler Sprocket -

- 1. Rotate the CAM GEAR on the Geared Limit Switch until the arrow points to the roller actuator on the Limit Switch.
- 2. Move the Geared Limit Switch forward so that the CAM GEAR engages the Idler Sprocket Gear. Tighten all bolts.
- 3. Set the Geared Limit Switch Cams to actuate the Limit Switch when the Car Gate is about 13" (330mm) from FULL OPEN and FULL CLOSE.

Further adjustments will be done after the Gate System is under power.



NEXT GENERATION NOTE

If you have a Gate iSENSOR, please proceed to the iLEARN System Manual for final setup and adjustment.



CAR GATE - P Style

If You Have Courion's NEXT GENERATION Equipment, mount the **Gate iDRIVE VFD Control** to the top of the Car Enclosure.

- (1) Gate iDRIVE VFD Control Front Gate
- (1) Gate iDRIVE VFD Control Rear Gate (when applicable)

DRIVE.G Controller Gatts. Tx. Rx Light Contrait PT Light Contrait P

NEXT GENERATION NOTE

If you have Courion's NEXT GENERATION System, your shipment will contain a Gate iDRIVE VFD Control. See the iLEARN System Manual for additional information.

IMPORTANT!

The Gate iDRIVE VFD Control must be mounted in close proximity to the Gate iSENSOR and CARE Light Curtain so that their respective cables can reach the necessary connection points on the Gate iDRIVE.

If You Have Courion's CARE Light Curtain, please proceed to the CARE Light Curtain Installation Manual.

(1pr) CARE Light Curtain System





THE NEXT GENERATION OF FREIGHT ELEVATOR DOORS

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