Sample Instructions
CART-LIFT

Before starting, carefully review these Installation Instructions. Double-check all measurements, and carefully adhere to the orientation of all fasteners when installing your new Courion components or interference may occur.

We are here to help you! If you encounter problems or conditions are different than those depicted in these Instructions, please call Courion immediately.

(800) 533-5760 or (314) 533-5700
**GENERAL DEMOLITION**

Using the existing platform remove all of the existing Courion equipment from the hoistway. In general, it is recommended that the existing equipment be removed from the lowest floor first and proceeding upward through all the floors.

**COURION EQUIPMENT PACKAGING**

**DOOR GUIDES.** Typically, the existing Courion Door Guides will remain in place. These Door Guides will require certain modifications to accommodate the new Courion Door Operators and Sprocket Assemblies. Please consult the section entitled “Door Guide Modifications” before starting your work.

If you are installing New Door Guides, they will be packaged together in a single crate and identified by the Opening Number used in Courion’s General Design Drawings.

**HOISTWAY BARRIERS**

As the existing door panels and safety equipment are removed from each floor, the contractor should install temporary full size entrance barriers to block the entire opening, and take appropriate measures to prevent physical access to each floor opening that has the existing door panels and guides removed. In addition, the contractor should post appropriate warnings at each entrance to alert personnel as to the dangers that exist.

**TEMPORARY PLATFORM FLOOR**

Extreme care should be taken any time the Courion Platform’s center opening is NOT covered with a temporary wood floor. Install a temporary wood floor on the Platform as soon as its presence does not interfere with the installation process.

**CHECK ALL MATERIALS**

Verify quantity and check all items for damage immediately upon receipt. If any shortage or damage is found, please contact Courion immediately. A copy of your Job Packing List is inside the crate marked “ERECUTION INSTRUCTIONS ENCLOSED”.

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**PLEASE READ BEFORE START OF INSTALLATION**

**JOB SPECIFIC NOTES**

**Scope of Work -** Upgrade the existing Cart Lifts to new COURION power hoistway doors and car gate system with automatic load and unload. Customer has advised COURION that lift is to be configured as a 2-Stop with one opening at the Ground Level (GRND), and one opening at the 2nd Level (2nd). The existing openings at the 1st and 3rd Levels will no longer be used and are to be bolted closed by Customer.

**CAR ENCLOSURES**

The new Car Enclosures to be standard 16 gauge, in lieu of 14 gauge.

**ENTRANCE FRAMES AND GUIDE RAILS**

Customer proposes to reuse the existing hoistway entrance jambs, sills, and door tracks, which must be in good working order at time of upgrade.

The existing Door Guide Rails will need to be modified for the new “TD” Style Door Operators and Interlocks. Please see the job specific instructions regarding “Interlock Bracket Mounting Location” drawing provided with these instructions.

Job Specific Drawings included with these Installation Instructions include:

Guide and Frame Assembly Drawings #200.2 that provides the following:

1. Location of the PA Interlock Mounting Brackets on the Door Guides.
2. That the existing rubber bumpers on the upper and lower spreader angles must be removed.

If during installation you have any questions or comments, please do not hesitate to contact Courion Engineering at (800) 533-5760 or (314) 533-5700.
**Courion Equipment (Typical)**

Your Equipment May be different. Please consult the General Design Drawings for job specific details.

- **Door Operator and Operator Sprocket** (Left Hand)
- **Door Idler Sprocket and Gate Operator** (Right Hand)
- **Retiring Cam Operator** (Left Hand Shown)
- **PA Interlock, Retiring Cam Assembly, and EUD** (Left Hand Shown)
**PLATFORM** - Mount the Courion Car Platform to the Elevator Sling using the Platform Hardware Kit (#94-000814) and Bottom Platform Brackets

1. Place the Platform in the Sling so that the FRONT of the Platform faces the front of the Lift as provided in Courion’s General Design drawings.
2. Bolt the Bottom Platform Brackets to the Car Platform.
3. Re-check the Platform-to-Sill measurement to ensure that it is correct.
4. Using the holes in the Bottom Platform Bracket as a drill template, drill the Stiles and install the remaining fasteners.
5. Attach side braces (not provided by Courion) from existing brackets on the Stile to the brace support angles at the bottom of the Courion Platform.

**IMPORTANT**
Before setting the Platform in place, check Courion’s General Design Drawings for the proper design CAR-TO-SILL setback. The PLATFORM-TO-SILL setback equals the CAR-TO-SILL plus 1/8” (4mm).
STEP 2
Door Frames & Guides

Installation Instructions
CART-MATIC - Peelle Conversion
Shop Order Reference _______ to ______

**NEW DOOR FRAMES - IF YOU HAVE A NEW PLATFORM AND CAR ENCLOSURE, INSTALL IT FIRST BEFORE STARTING THE INSTALLATION OF THE DOOR FRAME ASSEMBLIES.** COURION Hoistway Door Frame Assemblies are numbered. These numbers correspond to the Opening Numbers on COURION’s General Layout Drawings. Make sure that the Hoistway Door Frame Assemblies are installed at the proper Openings.

1. Using the Jack Bolt Template provided by COURION, install two (2) Red Head Anchors found in Hardware Kit #800 in the floor at each Opening.

   - **Using the Jack Bolt Template**

2. Install the Jack Bolt Rods with (1) 3/8” Hex Nut and (1) 3/8” Flat Washer into each Red Head Anchor.

   - **Install the Jack Bolt Rods**

   Remove the Sill Plate from the Door Frame Assembly and maneuver the Assembly into the Opening (from the hoistway side) and position it so that it is resting on the Jack Bolt Rods.

   - **Remove Sill Plate and Maneuver Assembly**

   Make sure the the Frame Assembly is true, level, and plumb. THE INSIDE DOOR JAMBS SHOULD LINE UP WITH THE INSIDE OF THE CAR ENCLOSURE.

   - **Frame Assembly True, Level, and Plumb**

   Fasten in place with the remaining 3/8” Flat Washer and Hex Nut.

   - **Fasten with 3/8” Flat Washer and Hex Nut**

   **ADJUSTMENT** - Using the lower 3/8” Hex Nut on the Jack Bolt Rod, adjust the Sill height so that it is level and 1/4” below the finished floor.

   - **Adjustment**

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**Sill Assembly**

- **Sill Plate - Remove to Install Frame Assembly**

- **Finished Floor Line**

- **1/4”**

- **3/8” Flat Washers (2)**

- **3/8”-16 Hex Nuts (2)**

- **3/8” Red Head Anchor**
NEW DOOR GUIDE RAILS - Mount the Door Guide Rails to the Door Frame using the mounting hardware and anchors provided by Courion.

STEP 2
Door Frames & Guides

CRITICAL
Please consult the Courion’s Guide and Frame Assembly Drawing on the next page(s) for the proper Distance Between Guides (DBG) and vertical position of your Upper and Lower Door Guide Rails. When finished, Door Guide Rails MUST be true and plumb.

1. LOOSELY mount the Upper and Lower Door Guides to the Door Frame.

2. LOOSELY bolt the Door Guide Splice Plates to the Upper and Lower Door Guides. IMPORTANT - Red Splice Plate must be between the Door Guide and the Grey Splice Plate.

3. Attach the Door Guide Spreader. Verify that you have the correct DBG before tightening.

MODIFY EXISTING DOOR GUIDES - The existing Door Guides need to be modified to accept the new Courion Door Operators.

1. Using the two (2) existing Door Sheave Holes, mount the Red Motor Chain Drill Template to the Door Guide Rail on the Door Operator Side of the Hoistway (ONLY).

2. Using the correct 3/16" Pilot Holes as reference, drill two (2) 3/16" pilot holes in the Guide Rail. Remove the Drill Template and enlarge these holes to a minimum of 3/4".

CRITICAL
For LEFT HAND Operators, use the Pilot Reference Holes ABOVE the square reference mark.

For RIGHT HAND Operators, use the Pilot Reference Holes NEXT to the square reference mark.

3. Using the two (2) existing Door Sheave Holes, mount the Red Operator Bracket Drill Template to the Door Guide Rails (Both sides of the hoistway).

4. Using the CENTER reference hole, drill one (1) 9/32" hole in the Door Guide Rail.
DOOR OPERATORS - Using the holes you just drilled in the Door Guides, mount the Dual Drive Sprocket and Door Operator on the drive side of the Opening. Mount the Idler Sprocket on the opposite side.

**STEP 3**
Door Operators

**Dual Drive Sprocket**
(Right Hand Shown)

**Idler Sprocket**
(Left Hand Shown)

**IMPORTANT**
Shim Plates must be installed with the Dual Drive Sprocket and Idler Sprocket.
INTERLOCKS - Using the Interlock Mounting Brackets, mount the PA Interlock to the Door Guide (one per Opening). See Courion’s General Design Drawings to determine the correct side of the opening and proper vertical placement of the Interlock.

Emergency Unlocking Devices (EUDs)

Normally, two (2) Interlocks will be equipped with safety access switches. These switches are used in conjunction with an Emergency Unlocking Device (EUD). Check Courion’s General Design Drawings to determine if you have EUDs and at what openings they are installed.
IF YOU HAVE HG-2 INTERLOCKS - Mount the HG-2 Interlock to the Upper Door Guide (one per Opening). See Courion’s General Design Drawings and the next page to determine the correct side of the opening and proper vertical placement of the Interlock.

STEP 4
HG Interlock
DOOR PANELS AND CHAINS - Install the Door Panels, Chain Rods and Door Chains at each Opening.

NOTE: Hoistway Door Panels are numbered. These numbers correspond to the opening numbers on Courion’s General Design Drawings. Make sure that your Hoistway Door Panels are installed at the proper openings.

1. Install the LOWER DOOR PANEL into the Door Guide Rails and attach the DOOR GUIDE SHOES. Allow the LOWER DOOR PANEL to rest in the FULL OPEN position.

2. Attach the LOWER DOOR PANEL CHAIN ROD to the LOWER DOOR PANEL.

STEP 5
Door Panels

Installation Instructions
CART-MATIC - Courion Conversion
1. Install the UPPER DOOR PANEL in the Door Guide Rails. Attach the DOOR CHAINS to the Upper Panel Chain Hitch on both sides of the Door Panel. Feed the DOOR CHAIN over the Dual Sprocket/Idler Sprocket and attach to the CHAIN ROD.

CRITICAL
All chain connecting links MUST face toward the shaft side of the hoistway.

2. Loosen the Motor mounting bolts and slide the motor towards the Door Guide. Thread the DOOR OPERATOR CHAIN over the Dual Drive Sprocket and through the 3/4” holes in the Door Guide Rails. The Door Operator Chain should run over the sprocket CLOSEST to the roomside.

3. Connect the two ends of the DOOR OPERATOR CHAIN with a Chain Clip (Shaftside).

4. Move the Motor away from the Door Guide to tension the Door Operator Chain. DO NOT OVER TENSION the chain. Chain is correctly tensioned when there is 1/8” to 3/16” of deflection with light finger pressure at the chain’s mid-point.

NOTE
There should be (3) brass washers per side on the Door Panel Chain Rod.

ADJUSTMENTS
Adjust the Door Guide Shoes to limit side-to-side play in the Door Panels to 1/8”. Adjust the Door Chain Rods to ensure that the Door Panels are level.
**LOCK BAR INSTALLATION** - Install the Lock Bar Mounting Bracket and Lock Bar on the Interlock Side of each Opening.

1. Bolt the Lock Bar Mounting Bracket to the Upper Door Panel in the pre-drilled tapped holes.
2. Slide the Lock Bar through the PA Interlock Lock Bar Guide with the chamfered end of the Lock Bar facing the Limit Switches.
4. Pull the Door to the **FULL CLOSED** position and adjust the Closed Limit Switch (upper switch) so that there is 1/4" clearance between the chamfered end of the Lock Bar and the Roller Arm on the Closed Limit Switch.
5. Pull the Doors to the **FULL OPEN** position and adjust the Open Limit Switch (lower switch) so that there is 1/4" clearance between the chamfered end of the Lock Bar and the Roller Arm on the Open Limit Switch.

**CRITICAL**
- Make sure the Lock Bar moves freely when the Door Panels move up and down.
- Make sure the gap between the Lock Bar Notch and Locking Dog is no more than 1/16" when the Doors are in the FULL CLOSE position.
- Adjust the Door Open and Door Closed Limit Switches so that there is a 1/4" clearance between the chamfered end of the Lock Bar and the Limit Switch Roller Arm.
1. Mount the Lock-Out Rod Holder and Switch Cam to the Interlock Side of the Upper Door Panel.
2. Slide the Lock-Out Rod down through the Lock-Out Rod Guide on the Interlock Mounting Plate and then up through the Lock-Out Rod Holder on the Interlock. Secure the Lock-Out Rod.
3. With the Door Panels in the FULL CLOSED position, align the Lock-Out Rod so that the Interlock Lever rests within the indentation of the Lock-Out Rod. Adjust the position of the Lock-Out Rod as needed.

CRITICAL

Make sure to align the Switch Cam so that it enters the Interlock without binding when the doors are in the FULL CLOSED position.

Using the set screw on the Interlock Lever, adjust the Interlock Lever so that the contacts within the Interlock make-up ONLY when the Door Panels are in the FULL CLOSED position.

HG-2 INTERLOCKS - Install the Lock-Out Rod Bracket, Switch Cam, and Lock-Out Rod on the Interlock Side of each Opening.
CAR ENCLOSURE - Your COURION Car Enclosure was shipped to you fully assembled. When you dismantle the Car Enclosure for installation, leave each Side Wall (1 & 3) intact.

1. Attach the two (2) side panels to the Platform (Items 3 & 4). NOTE: Refer to Courion’s General Design Drawings to identify the correct side for the COP cutout(s).
2. Attach the Canopy (5) and Canopy Frame (6) to the side panels.
3. Attach the Car Top Brackets to the Stiles at the top of the Car Enclosure and secure.
4. If applicable, attach the Back Panel to the side panels and canopy.
5. If applicable, attach the Caster Guides to the Platform.
RETIRING CAM - Install the Retiring Cam on the Interlock Side of the Car Enclosure.

CRITICAL
Installation of the Retiring Cam(s) is a two (2) person job. Attempting to install the Retiring Cam(s) by one person is dangerous.

1. Park the Car at the lowest level with one man in the pit. CAUTION - IT IS ALWAYS DANGEROUS TO HAVE A PERSON IN THE PIT WHEN WORKING ON THE LIFT EQUIPMENT. TAKE ALL NECESSARY PRECAUTIONS TO AVOID INJURY.
2. Slide the Retiring Cam Assembly down from the top of the Car Enclosure on the Interlock Side.
3. Using the fasteners found in the Retiring Cam Hardware Kit, bolt the top and bottom of the Retiring Cam Assembly to the pre-drilled holes in the Car Enclosure.
4. Brace the top of the Retiring Cam Unit to the Car Enclosure if required.
1. Slide the Gate Guides over the Hex Head Machine Screws that have been pre-installed in the wainscot angles of the Courion Car Enclosure.
2. Fasten the Gate Guides using the fasteners found in the Car Gate Guide Hardware Kit. **DO NOT TIGHTEN AT THIS TIME.**
3. Using a level, plumb the guides and adjust for proper Opening Width. See Courion’s GD Drawings for proper Opening Width. Tighten all nuts.
4. Install the Gate Guide Spreader Angle at the bottom of the Gate Guides.

GATE GUIDES - Attach the Car Gate Guides and Spreader Angle to the Car Enclosure.
GATE FRAME - Install the Gate Panels and Gate Frame (1 per Car Gate).

1. Install the LOWER GATE PANEL in the Gate Guides and allow to rest in the FULL OPEN position on the Car Gate Stops.

STEP 10 Gate Frame

2. Attach the two ① Gate Frame Legs to the Upper Gate Guides along with the two ② Support Frame Brackets.

3. Attach the two ④ Gate Support Bracket to the ⑤ Car Enclosures Angle Brace.

4. Attach the two ② Gate Frame Brace Support to the Gate Support Bracket and the Horizontal Frame Support.

5. Attach the two ⑥ Gate Drive Brackets to the Horizontal Frame Support.

6. Attach the ① Horizontal Frame Support to the Support Frame Brackets

7. Attach the ⑥ Proximity Switch Frame to the Horizontal Frame Support.
GATE DRIVE - Install the Gate Drive and Gate Idler to the Gate Frame. Consult Courion’s General Design Drawings to determine which side to mount both items.

NOTE: Two (2) of the Motor Mounting Bolts are used in conjunction with the fasteners found in the Gate Drive Hardware Kit to attach the Gate Drive to the Gate Guides.
**GATE PANELS** - Install the Upper Gate Panel and Gate Chains.

1. Clamp the Upper Gate Panel in the Guide Rails in the **FULL OPEN** position.
2. Feed the Gate Chain up and over the Drive Unit and Idler Sprocket and attach to the Upper Gate Panel Chain Rod using the Connecting Link found with the Gate Chain.
3. Attach the Gate Chain to the Lower Gate Panel chain hitch using a Connecting Link found with the Gate Chain.

**NOTE:** All Connecting Link MUST face room side and have three (3) brass washers per side.

4. Using the nuts on the Gate Chain Bolts, adjust the up and down position of the Gate Panels so that both Gate Panels are on their stops in the **FULL OPEN** position. Tighten the lock nuts.
5. Adjust out any side play by installing shims, found in the Car Gate Hardware Kit, under the Gate Guide Shoes as necessary.
**GATE CONTACT** - Attach the Gate Contact and Gate Contact Cam to the Car Gate.

1. Prior to mounting the Gate Contact, wire the gate switch and attach a short piece of greenfield, flex, or conduit.
2. Attach the Gate Contact Bracket to the Interlock side of the Car Enclosure, using the pre-drilled holes in the Car Top.
3. Attach the Gate Contact Cam to the Upper Gate Panel so that the Gate Contact is actuated during the travel of the Gate Panel. Check for proper actuation.
**PROXIMITY SENSORS** - Attach the Gate Proximity Sensors to the Proximity Sensor Mounting Brackets on the Gate Frame.

1. Install two (2) Proximity Sensors in the Proximity Sensor Mounting Brackets on the Gate Frame.
2. Adjust the depth of the sensors to 1/4" from the backside of the Gate Panel using a 1/4" thick guide.

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**Top Gate Proximity Sensor** (with Car Gate in FULL OPEN Position)

**Bottom Gate Proximity Sensor** (with Car Gate in FULL OPEN Position)
LIGHT CURTAIN - Install the CARE Light Curtain and Mounting Bracket to the Car Gate Guides.

1. Mount the Transmitter and Receiver to the Gate Guide Rails using the pre-drilled holes provided by Courion.
2. The CARE Power Supply can be mounted to the Car top at a location that is convenient for the elevator contractor.
3. Adjust the Transmitter and Receiver so the CARE sensors are aligned.
### CART-MATIC - Install the CART-MATIC Unit and Transfer Unit Encoder PLC.

1. Using the Courion Lifting Handles, maneuver the CART-MATIC Unit into the recess in the Car Platform. Bolt the CART-MATIC Unit to the Car Platform.
2. Drill two (2) 13/32" holes in the Car Platform’s lower Cross Angle.
3. Mount the CART-MATIC Encoder PLC Box to the Car Platform’s lower cross angle.

#### IMPORTANT

Make sure the PLC Box is free and clear from all hoistway obstructions and that the lid can be opened with ease. Also make sure that the PLC Box is close enough to the CART-MATIC Unit to allow the Encoder Cable to reach the cable connection on the side of the PLC Box.

Drill two (2) 13/32" holes 1/2" down from the top of the cross angle and 15-1/2" apart.
**CRITICAL**

Do NOT install the Stop Bolt for the Hinged Sill Plate at this time. While the car is running manually, there is a strong possibility to get the Hinged Sill Plates trapped or broken off while running the car in the Up direction. Courion recommends that the Hinged Sill Plates be flipped into the Car and left there until the job is checked and ready to run on automatic.

**SILL PLATE** - Install the Hinged Sill Plates to the Car Enclosure and CART-MATIC Unit.
ROLLER GUIDES - Attach the Jamb Roller Guides to the Entrance Frames using the Jamb Roller Guide Template provided by Courion. See the General Design Drawings for specific details. Attach the Car Roller Guides to the Car Enclosure using the pre-drilled holes provided by Courion.

**IMPORTANT**
The Jamb and Car Roller Guides MUST be aligned so that the Center Line is equal to the height of the Cart Bumpers.
Each pair of JAMB ROLLER GUIDES contains a CART-READY SENSOR, and each pair of CAR ROLLER GUIDES contains a CART-ON SENSOR. The CART-READY SENSOR and CART-ON SENSOR are made up of proximity sensors located in the upper enclosure of the roller guide assembly.

ADJUSTMENT: To adjust the Proximity Sensor, remove the Roller Guide Cover on the proximity switch side of the Roller Guide. Position the Proximity Sensor to the Proximity Target using the Retainer Hex Nuts holding the Proximity Sensor to the Proximity Sensor Bracket. For best results, the face of the Proximity Sensor should be no more than 1/16" from the Proximity Target’s radius surface when the Proximity Roller is actuated (rotated 90 degrees from neutral position).

ALTERNATIVE CART-ON SENSOR: Some Jobs do not have CART-ON Sensors in the CAR ROLLER GUIDES. On these Jobs, a CART-ON Sensor that mounts to the Car Top will be provided by COURION. Using the fasteners provided, mount the CART-ON Sensor Bracket to Car Top as shown below.

ADJUSTMENT: Adjust the CART-ON Sensor per the instructions provided with the sensor.

If you are re-using an existing Car Enclosure, you may have to drill the necessary mounting holes. In those cases, mount the CART-ON Sensor as close to the center of the Car Top as possible.
1. Locate the final “UNLOAD” Cart position in the Lobby. The final “UNLOAD” position is project specific and dependent on the location of the final cart when the lobby is considered “FULL”.

2. Install a Lobby-Full Sensor Unit “in” or “on” the ceiling structure. If “Drop” ceiling, cut a 6” x 8-3/4” hole in the ceiling tile and sandwich the ceiling tile between the cover plate and the Mounting Flanges of the Lobby-Full Sensor Unit. If “Bottom of Slab” ceiling, reverse and re-attach the mounting flanges to holes at top of housing. Anchor flanges to ceiling.

LOBBY FULL SENSORS - When applicable, install Lobby Full Detectors in the ceiling. Please see Courion's General Design Drawings to determine the correct Openings.

3. Using the Sensor’s Beam Triggers, adjust the sensor trigger levels to 6” (152mm) below the top of your cart.

ADJUSTMENTS
Courion recommends that both trigger levels be adjusted to 6” (152mm) below the top of the cart. For proper operation, the Lobby Full Sensor Unit must be at least 24” away from side walls, and at least 48” is required between adjacent sensing beams.

A. Inside of the Lobby Full Cart Detector housing is an Ultrasonic Sensor with relay output and a sensing range of 20” to 20’. With the Lobby Full Cart Detector in place, set a cart immediately below the sensor beam. Turn the RANGE potentiometer to the fully counter-clockwise position, then turn the control clockwise until the sensor’s RED LED indicator comes on.

B. Verify this range setting by moving the cart away from the sensor beam (the RED LED should go out), then back towards the sensor beam (the RED LED should be on).
**EUD** - When applicable, install the Emergency Unlocking Devices (EUD) at each Opening. Please consult Courion’s General Design Drawings for the floors that receive EUDs.

A. **Drill a 9/16” hole through the wall approximately opposite the chain attachment point in the switch arm on the Interlock Roller.**

B. **Slide the EUD Pipe through the hole and cut to length.**

C. **On the hoistway side, thread on a nut behind the 3” plate washer.**

D. **On the room side, insert the EUD Pipe through the hole in the back of the EUD box. Use a double nut to secure.**

E. **Anchor the EUD box to the wall.**

F. **Slide the EUD Chain through the EUD Pipe, leaving approximately 2” with the ring loose inside the EUD box.**

G. **Cut the EUD Chain to length on the hoistway side.**

H. **Attach the EUD Chain to the Interlock Roller using the S hook provided.**

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**STEP 20**

**EUDs**
CART COUPLERS - When applicable, install the Courion Cart Couplers to the Carts. For additional JOB SPECIFIC information, see the GENERAL DESIGN DRAWINGS located at the front of these Installation Instructions.

CRITICAL
If you have a CART-MATIC Unit, it is important that your Carts meet the requirements set forth in the Cart Coordination Drawing attached to these instructions. If there is a discrepancy between the Cart Coordination Drawing and your carts, please contact Courion immediately.
Once you have completed the installation of the Courion CART-MATIC System, please check to make sure all of the following CRITICAL items are correct:

√ Your Doors and Car Gate should move freely up and down in their guides. If not, check your Guides to make sure they are true and plumb. Make sure your Door Shoes are in position to prevent side-to-side play in the Door and Gate Panels.

√ Make sure that your Lock Bar and Lock-Out Rod run freely through the guides when the Door Panels move up and down.

√ Using the setscrew on the Interlock Lever, adjust the Interlock Lever so that the contacts within the Interlock make-up ONLY when the Door Panels are in the FULL CLOSED position.

√ Check all Carts against the Courion Cart Coordination Drawings. The Courion Cart-Matic System will not work properly if the Carts are not the correct size and if the Cart Coupling Fixture is not positioned properly on the bottom of the Cart.

√ Using a Cart, check the Transfer Device for proper pickup and unload. Adjust the Encoder in the Transfer Device to insure the proper stroke of the Transfer Device Arm.

√ Check all motors for proper phase and rotation.

√ Check Hoistway Doors and Car Gates at each landing.

√ Check CART-MATIC Unit at each landing.

√ Check each Interlock and Safety Device.

√ Re-install all device covers.

Once you have completed the installation of the Courion CART-MATIC System, please check to make sure all of the following CRITICAL items are correct:

√ Your Doors and Car Gate should move freely up and down in their guides. If not, check your Guides to make sure they are true and plumb. Make sure your Door Shoes are in position to prevent side-to-side play in the Door and Gate Panels.

√ Make sure that your Lock Bar and Lock-Out Rod run freely through the guides when the Door Panels move up and down.

√ Using the setscrew on the Interlock Lever, adjust the Interlock Lever so that the contacts within the Interlock make-up ONLY when the Door Panels are in the FULL CLOSED position.

√ Check all Carts against the Courion Cart Coordination Drawings. The Courion Cart-Matic System will not work properly if the Carts are not the correct size and if the Cart Coupling Fixture is not positioned properly on the bottom of the Cart.

√ Using a Cart, check the Transfer Device for proper pickup and unload. Adjust the Encoder in the Transfer Device to insure the proper stroke of the Transfer Device Arm.

√ Check all motors for proper phase and rotation.

√ Check Hoistway Doors and Car Gates at each landing.

√ Check CART-MATIC Unit at each landing.

√ Check each Interlock and Safety Device.

√ Re-install all device covers.

Once you have completed the installation of the Courion CART-MATIC System, please check to make sure all of the following CRITICAL items are correct:

√ Your Doors and Car Gate should move freely up and down in their guides. If not, check your Guides to make sure they are true and plumb. Make sure your Door Shoes are in position to prevent side-to-side play in the Door and Gate Panels.

√ Make sure that your Lock Bar and Lock-Out Rod run freely through the guides when the Door Panels move up and down.

√ Using the setscrew on the Interlock Lever, adjust the Interlock Lever so that the contacts within the Interlock make-up ONLY when the Door Panels are in the FULL CLOSED position.

√ Check all Carts against the Courion Cart Coordination Drawings. The Courion Cart-Matic System will not work properly if the Carts are not the correct size and if the Cart Coupling Fixture is not positioned properly on the bottom of the Cart.

√ Using a Cart, check the Transfer Device for proper pickup and unload. Adjust the Encoder in the Transfer Device to insure the proper stroke of the Transfer Device Arm.

√ Check all motors for proper phase and rotation.

√ Check Hoistway Doors and Car Gates at each landing.

√ Check CART-MATIC Unit at each landing.

√ Check each Interlock and Safety Device.

√ Re-install all device covers.

Once you have completed the installation of the Courion CART-MATIC System, please check to make sure all of the following CRITICAL items are correct:

√ Your Doors and Car Gate should move freely up and down in their guides. If not, check your Guides to make sure they are true and plumb. Make sure your Door Shoes are in position to prevent side-to-side play in the Door and Gate Panels.

√ Make sure that your Lock Bar and Lock-Out Rod run freely through the guides when the Door Panels move up and down.

√ Using the setscrew on the Interlock Lever, adjust the Interlock Lever so that the contacts within the Interlock make-up ONLY when the Door Panels are in the FULL CLOSED position.

√ Check all Carts against the Courion Cart Coordination Drawings. The Courion Cart-Matic System will not work properly if the Carts are not the correct size and if the Cart Coupling Fixture is not positioned properly on the bottom of the Cart.

√ Using a Cart, check the Transfer Device for proper pickup and unload. Adjust the Encoder in the Transfer Device to insure the proper stroke of the Transfer Device Arm.

√ Check all motors for proper phase and rotation.

√ Check Hoistway Doors and Car Gates at each landing.

√ Check CART-MATIC Unit at each landing.

√ Check each Interlock and Safety Device.

√ Re-install all device covers.