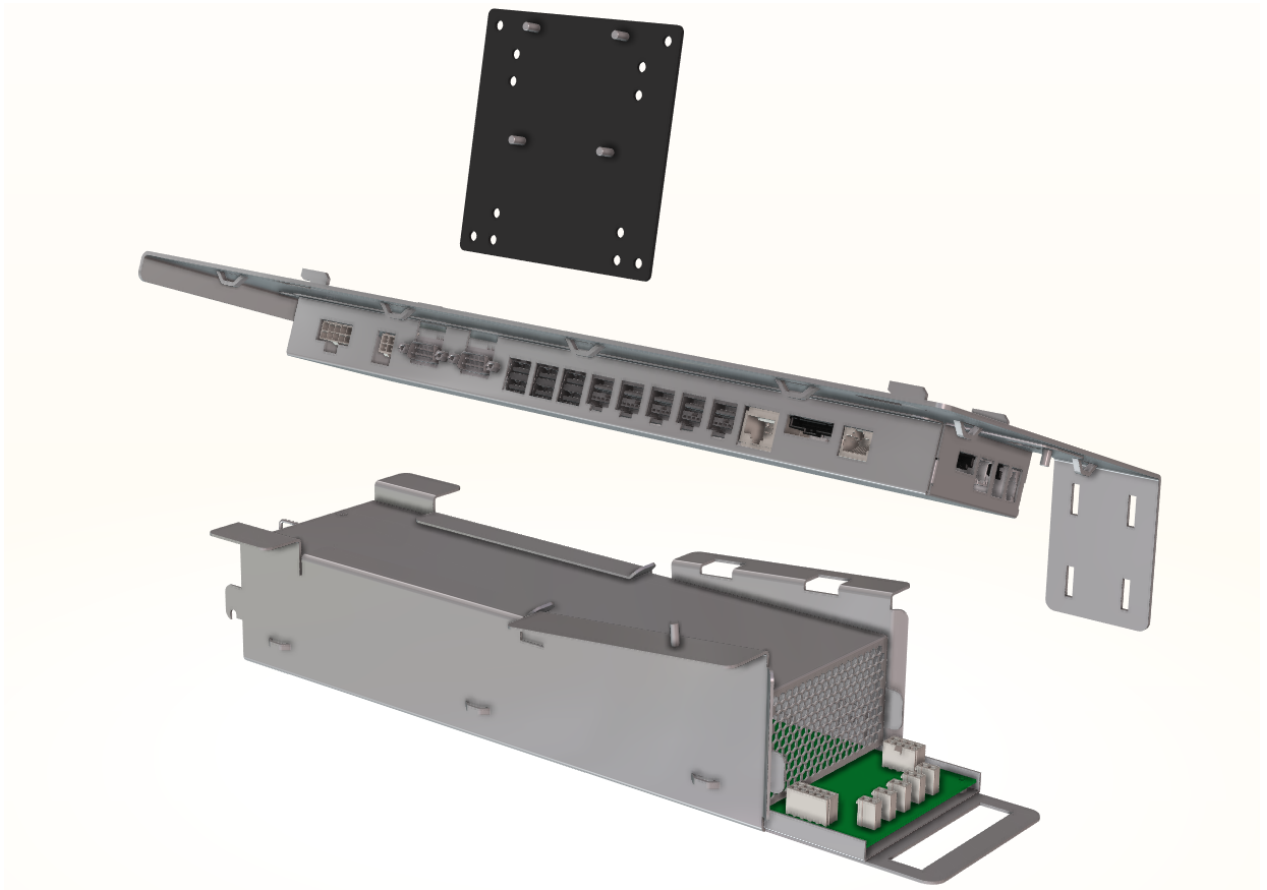


# Kit Instructions

R6L Upgrade, Full Size Core



7350-K970  
Issue D



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To maintain the quality of our publications, we need your comments on the accuracy, clarity, organization, and value of this book. Please use the link below to send your comments.

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## Revision Record

Issue	Date	Remarks
A	Dec 2017	First issue
B	Feb 2018	<ul style="list-style-type: none"> <li>Updated the artwork and the parts list under Kit Contents</li> <li>Reorganize the sequence of the Installation Procedures</li> <li>Modified the Installing the 7360 I/O Box</li> </ul>
C	Nov 2018	<ul style="list-style-type: none"> <li>Updated the Cover Page</li> <li>Added Configuring Serial Type Cash Acceptors Instructions.</li> </ul>
D	Oct 2020	<ul style="list-style-type: none"> <li>Updated Kit Contents.</li> <li>Modified <a href="#">Installation Procedures</a> on page 4 to add the following sections: <ul style="list-style-type: none"> <li><a href="#">Adjusting Tri-Light/Lane Light Jumper Settings to +24V</a> on page 18.</li> <li><a href="#">Installing Lane Light Label</a> on page 35.</li> <li><a href="#">Installing 7350 R6 Lite Product Identification (PID) Upgrade Label</a> on page 38.</li> <li><a href="#">Installing Display Connector Ports Label</a> on page 39.</li> </ul> </li> </ul>



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# R6L Upgrade, Full Size Core

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This publication provides procedures for upgrading an existing 7350 SelfServ Checkout with Pocono E-Box unit to 7350 R6 Lite with the following components:

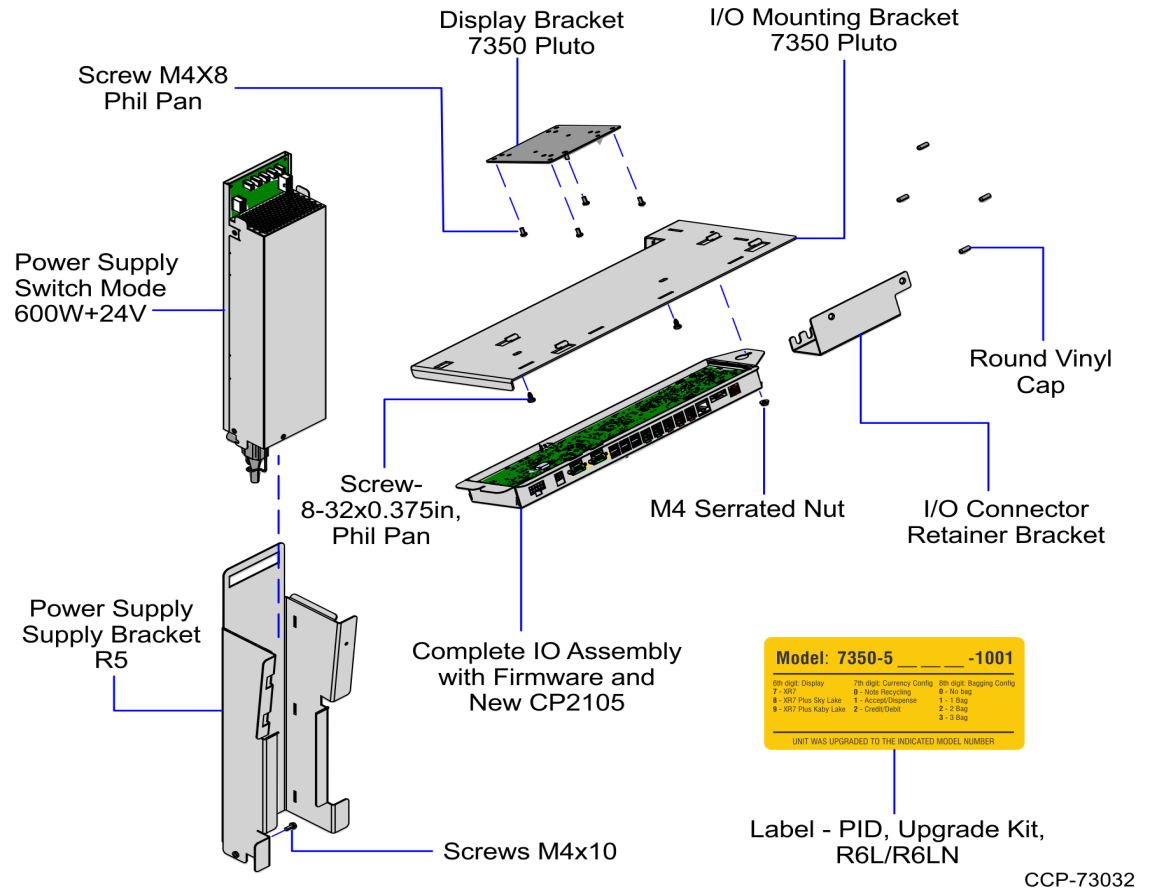
- 7360 I/O Box
- 7360 Power Supply
- Display Bracket for NCR RealPOS XR7 (7702)



**Note:** The 7350-K970 R6 Lite Upgrade Kit is not certified for installation on units with Talladega motherboards.

# Kit Contents

The R6L Upgrade, Full Size Core Installation Kit contains the following:



Part Number	Description
497-0528740	7350-K970 Kit - R6 Lite Upgrade, Full Size Core
009-0028273	Power Supply - Switch Mode - 600W +24V
497-0519618	Power Supply Bracket - R5
009-0006593	Screws M4 x 10
497-0526717	Complete IO Assembly (CAD0892) with Firmware and New CP2105
497-0519312	I/O Mounting Bracket - 7350 Pluto
006-8612446	Screw - 8-32 x 0.375 in Phil Pan, Self Tapping - Type F (6 pcs)
009-0007087	Serrated Nut - Self Locking (M4, 4.2) (6 pcs)


Part Number	Description
497-0519321	Display Bracket - 7350 Pluto
006-8611241	Round Vinyl Cap 0.125 in x ½ in, Black (4 pcs)
* 007-9714414	Tie Strap Plain 5.60 LG (23 pcs)
497-0525815	SSCO Release 5.X Cable Label Set - 7350, 7357, 7358
* 497-0513228	Label, Display Connector Ports
* 497-0519643	Cable - MEEI Adapter, with Loopback, 12 in (0.3 M)
* 497-0511101	Lane Light Graphics Label – NCR FastLane
* 497-0474154	Cable - 7702 Power, 24 V,3500 mm
* 497-0502540	Cable Assembly, Power Switch Jumper, 8006
* 497-0507921	Cable - Power 24 V PSU to IO Box
* 497-0508356	Cable - (Black) 2.4 M USB + Power (12 V) to 2x4 Latch-N-Lok
* 497-0509260	Kit - R6 Checkpoint Cable
* 497-0523033	Cable - Sankyo Dip MSR, Pwr & Data to +12 V Board (1M)
* 497-0519303	Cable - Tri-Light
* 497-0520467	Cable - R6L Cash Acceptor Power Adapter
* 497-0521038	Assy-Pack R6L Upgrade
006-8615964	Screw, M4 x 8, Machine,Phil Pan, Stl , Black (4 pcs)
497-0525857	Label - PID, Upgrade Kit, R6L/R6LN
497-0525743	I/O Connector Retainer Bracket
* 497-0423108	Instructions-Kit (Reference Sheet)

\* Items marked with an asterisk are not called out on the image.

# Installation Procedures

To upgrade an existing 7350 SelfServ Checkout unit to 7350 R6 Lite, do the following :

1. Remove 7350 components. Refer to the following procedures:
  - a. [Removing the Touch Display](#) on the facing page.
  - b. [Removing the E-Box](#) on page 8.
  - c. [Removing the 7350 Cooling Fan](#) on page 10.
  - d. [Removing and Sorting Cables](#) on page 11.
2. Install R6 Lite components. Refer to the the following procedures:
  - a. [Installing the Display Mounting Bracket](#) on page 13.
  - b. [Adjusting Tri-Light/Lane Light Jumper Settings to +24V](#) on page 18.
  - c. [Installing the 7360 I/O Box](#) on page 15.
  - d. [Installing the System Power Supply](#) on page 21.
  - e. [Installing the NCR 7702 Terminal Display](#) on page 26.

 **Note:** To purchase an NCR 7702 Terminal Display, contact an NCR Customer Representative.

  - f. [Routing I/O Box Cables](#) on page 31.
  - g. [Routing and Sorting Cables](#) on page 32.
3. Attach the labels by doing of the following:
  - [Installing Lane Light Label](#) on page 35.
  - [Installing 7350 R6 Lite Product Identification \(PID\) Upgrade Label](#) on page 38.
  - [Installing Display Connector Ports Label](#) on page 39.
  - Attach the cable labels on both ends of the cables.
4. For units with a Cash Acceptors using serial communication, refer to [Configuring Serial Type Cash Acceptors](#). on page 40.



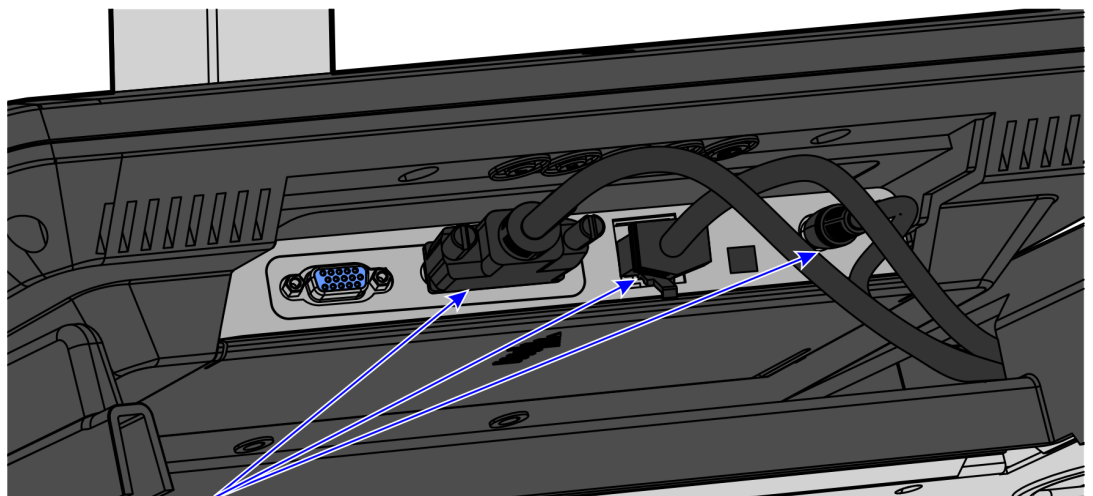
## Removing the Touch Display

In order to upgrade an existing NCR SelfServ Checkout (7350) unit to R6 Lite, the Touch Display must be removed and replaced with an NCR 7702 Terminal Display. To remove the existing Touch Display from the NCR SelfServ Checkout unit, follow these steps:



**Note:** To purchase an NCR 7702 Terminal Display, contact an NCR Customer Representative.

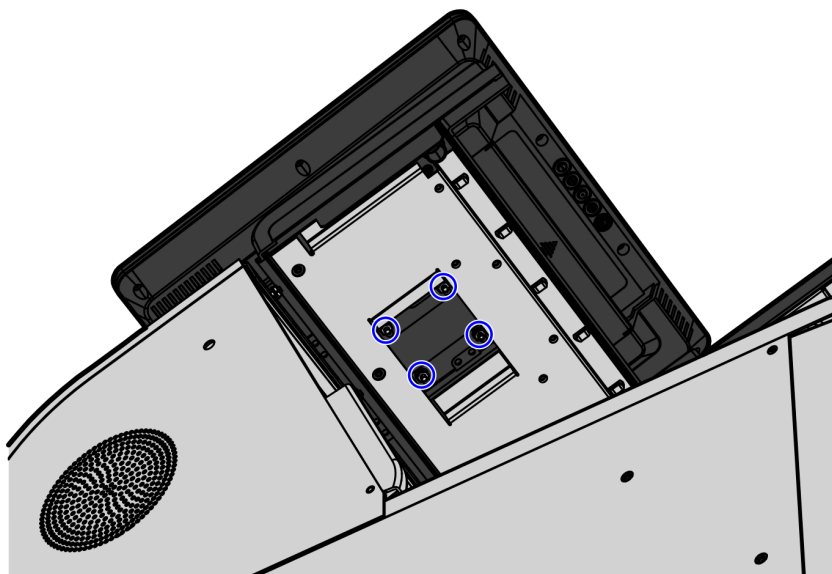
1. Turn off the NCR SelfServ Checkout software and hardware systems.
2. Open the Upper Cabinet Door.
3. Disconnect the Display cables.



Display Cables

CCP-72639

4. Remove the four nuts securing the Touch Display and mounting bracket to the unit.



CCP-73047

5. Close the Upper Cabinet Door.
6. Lift the Touch Display with the mounting bracket off the unit.



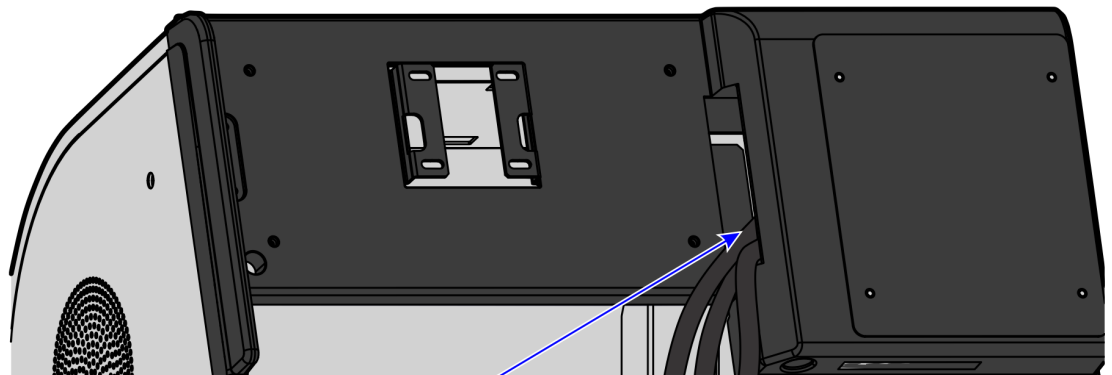
**Note:** Replace the Touch Display with the NCR 7702 Terminal Display. To install the NCR 7702 Terminal Display, refer to [Installing the NCR 7702 Terminal Display](#) on page 26.

7. Remove the Touch Display cables from the Upper Cabinet Door. For more information, refer to [Removing Display Cables](#) below.

## Removing Display Cables

To remove cables of the existing Touch Display from the Upper Cabinet Door, follow these steps:

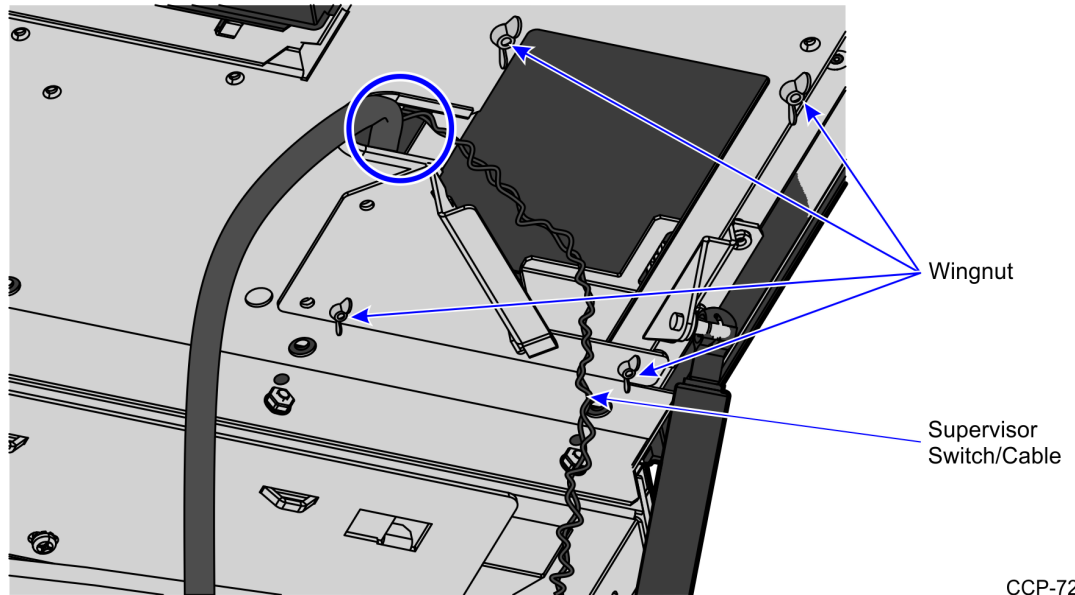
1. Remove the existing Touch Display. For more information, refer to [Removing the Touch Display](#) on the previous page.
2. Feed the Display cables through the side opening, down the back of the door, as shown below.



Display Cables

CCP-72641

3. If the VGA cable cannot get through the opening, remove the four wingnuts and then remove the cable.



CCP-72709



**Note:** Do not remove the Supervisor Switch/Cable.

4. Replace the four wingnuts.
5. Remove and discard the Display cables. For more information, refer to [Removing and Sorting Cables](#) on page 11.

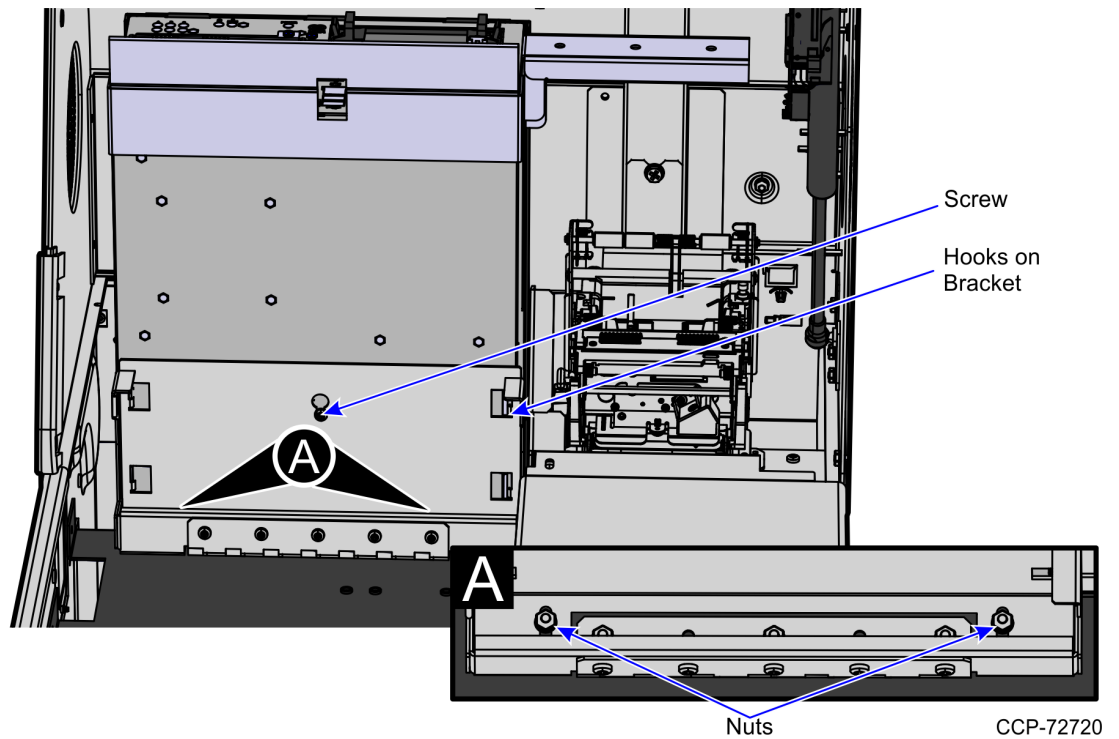
## Removing the E-Box

To remove the E-Box from the NCR SelfServ Checkout unit, follow these steps:

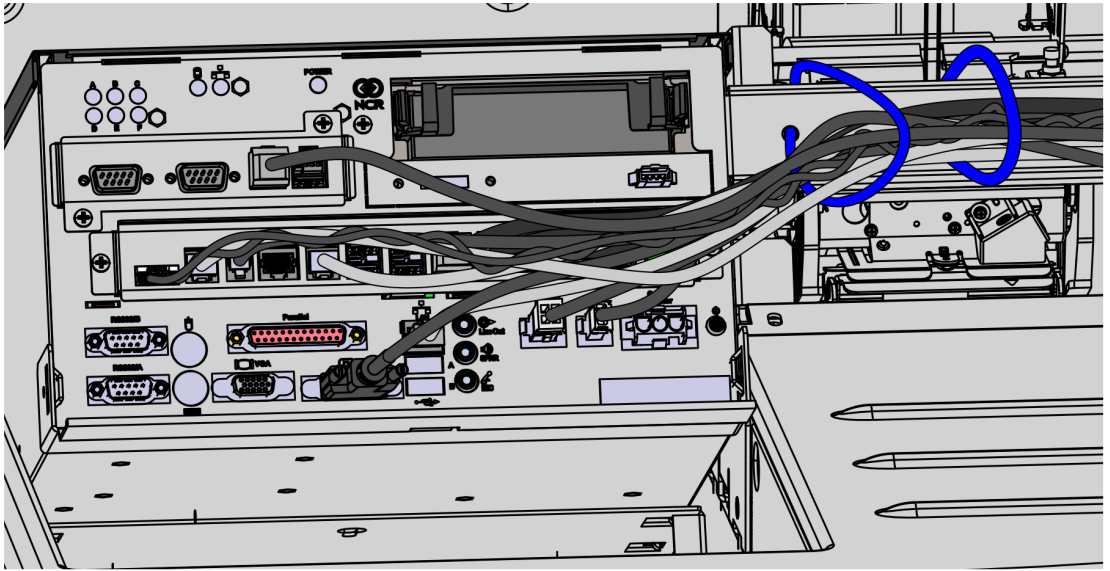
1. Turn off the NCR SelfServ Checkout software and hardware systems.
2. Open the Upper Cabinet Door.
3. Remove the Scanner and disconnect the cable from the E-Box.
4. Set the Scanner Scale aside.
5. Remove two nuts and one screw securing the E-Box to the E-Box Bracket, as shown in the image below.



**Note:** If the E-Box underwent maintenance, the nuts may no longer exist.

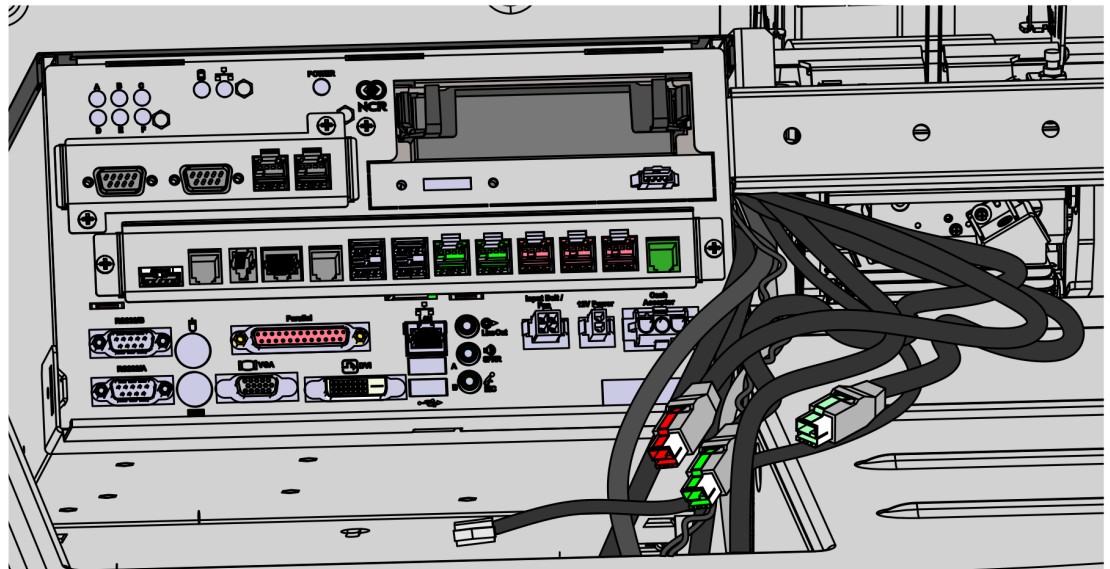


6. Tilt the E-Box Bracket forward to easily access the cables.



CCP-72635

7. Disconnect cables from the E-Box.



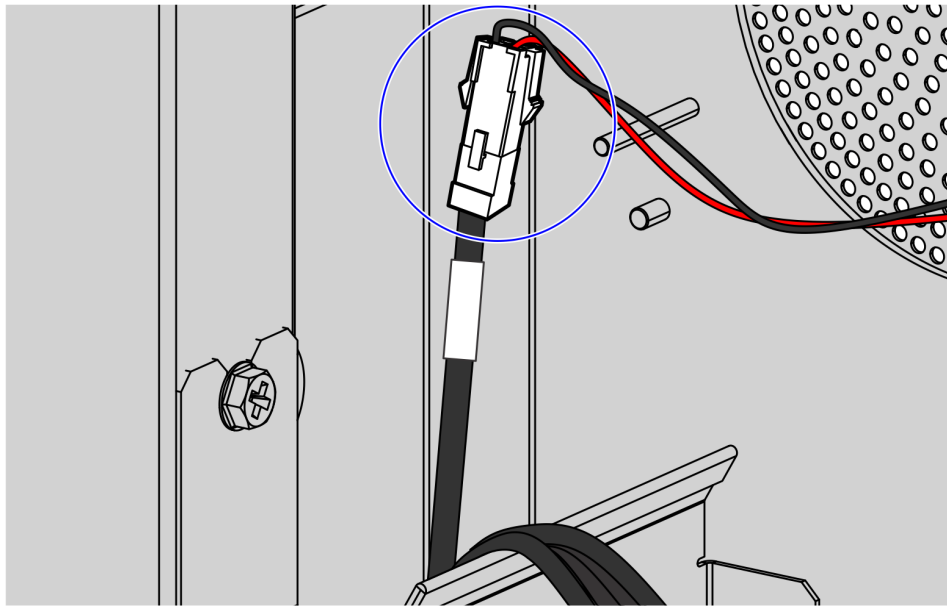
CCP-72636

8. Slide E-Box forward to disengage the clips and then lift the unit off the bracket and out of the NCR SelfServ Checkout unit.

## Removing the 7350 Cooling Fan

To remove the 7350 cooling fan, follow these steps:

1. Remove four nuts securing the cooling fan to the side of the Upper Cabinet.
2. Remove the cooling fan from the side of the Upper Cabinet.
3. Disconnect the fan from the cable shown below.



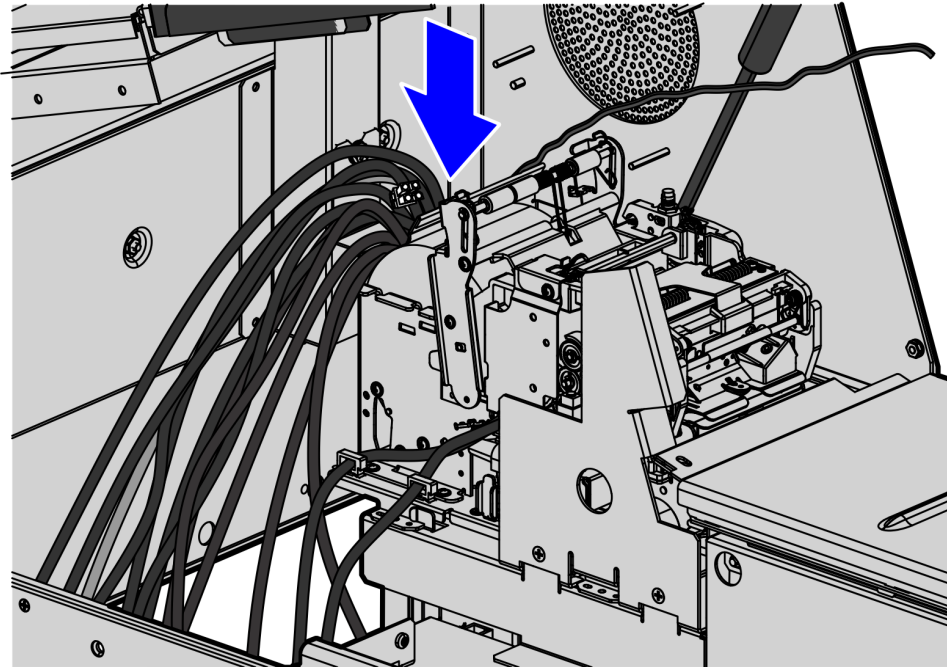
CCP-72634

4. Discard the cooling fan and cable. For more information, refer to [Removing and Sorting Cables](#) on the facing page.

## Removing and Sorting Cables

To remove and sort cables from the existing NCR SelfServ Checkout unit in order to prepare it for the R6 Lite components, follow these steps:

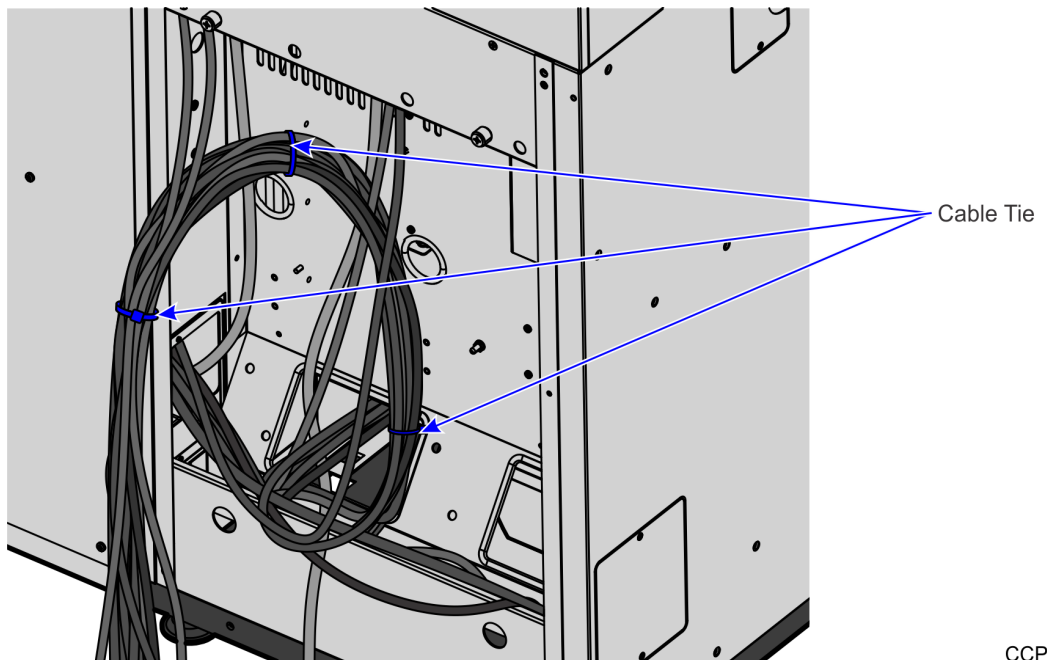
1. Remove 7350 components that must be replaced with R6 Lite components.
2. Remove all cable ties that bind the cables.
3. Direct the cables down the back wall of the unit, as shown in the image below.



CCP-72633

4. Remove the back panel cover from the unit.

5. Pull out the cables from the back panel.



CCP-72711

6. Remove all cable ties securing the cables.
7. Remove and discard the following cables from the bundle:
  - Display Cables
  - Cooling Fan Power Cable
8. Install R6 Lite components. For more information, refer to the following procedures:
  - a. [\*Installing the Display Mounting Bracket\*](#) on the facing page.
  - b. [\*Installing the 7360 I/O Box\*](#) on page 15.
  - c. [\*Installing the System Power Supply\*](#) on page 21.



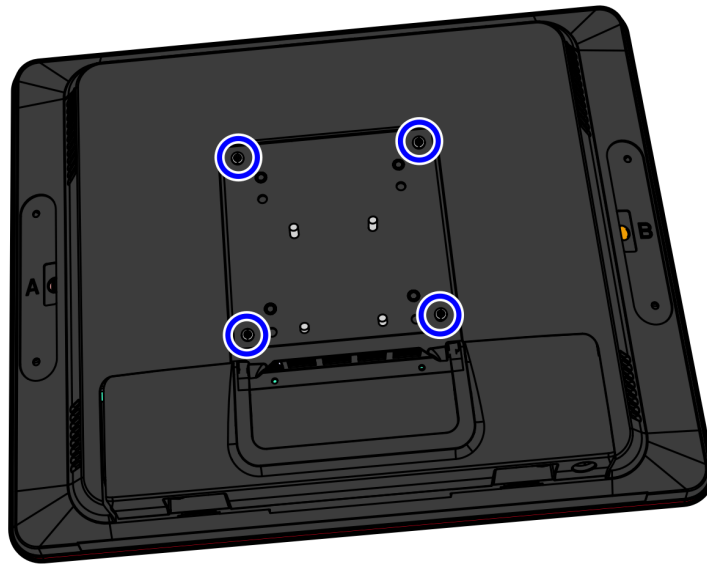
## Installing the Display Mounting Bracket

To install the mounting bracket to the Display, follow these steps:

1. Place the NCR 7702 Terminal Display on a flat surface with the back facing up.
2. Attach the mounting bracket to the back fo the Display using four screws, as shown below.

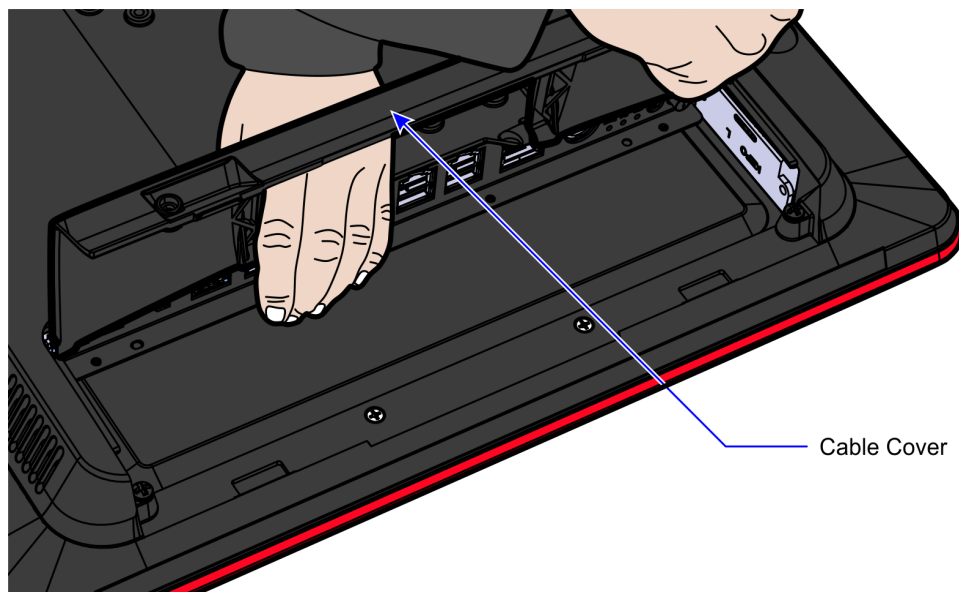


**Note:** The four PEM studs should be located near the cable connections. Ensure that the text on the mounting bracket is oriented at the top of the Display. Refer to the image below as an example.



CCP-72707

3. Remove the Cable Cover from the back of the Display.



CCP-72706

4. Do any of the following:

- Install the 7360 I/O Box. For more information, refer to [\*Installing the 7360 I/O Box\*](#) on the facing page.
- Install the NCR 7702 Terminal. For more information, refer to [\*Installing the NCR 7702 Terminal Display\*](#) on page 26

## Installing the 7360 I/O Box

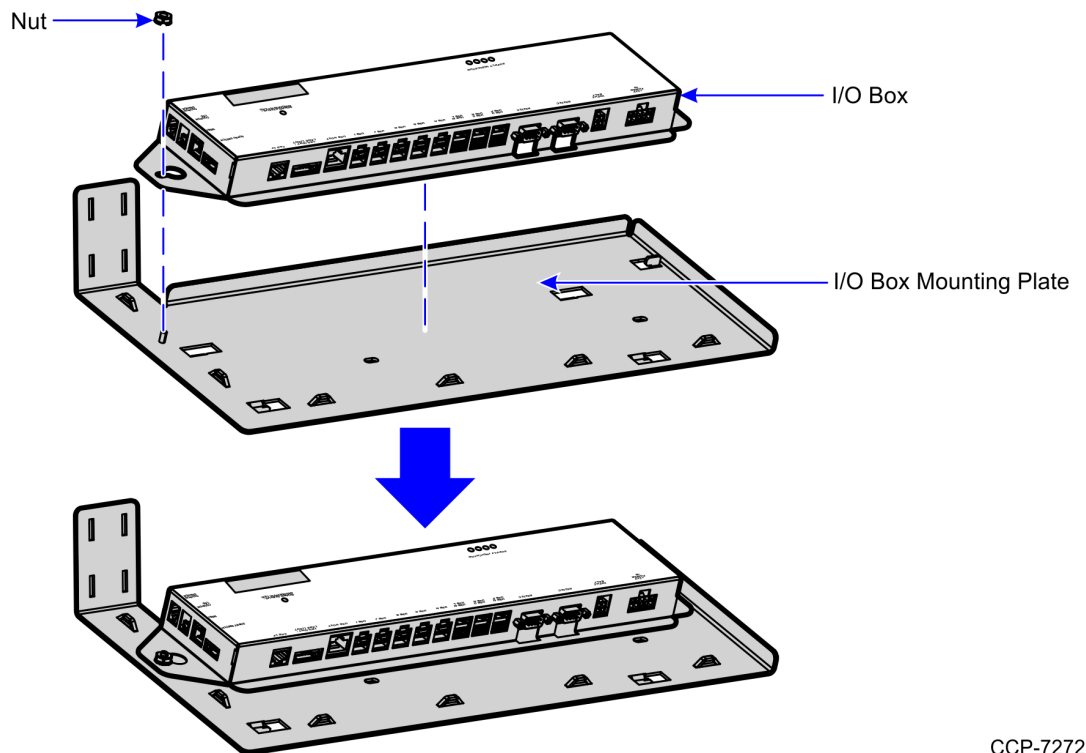
To install the 7360 I/O Box, follow these steps:

1. Remove the existing 7350 components that need to be replaced.

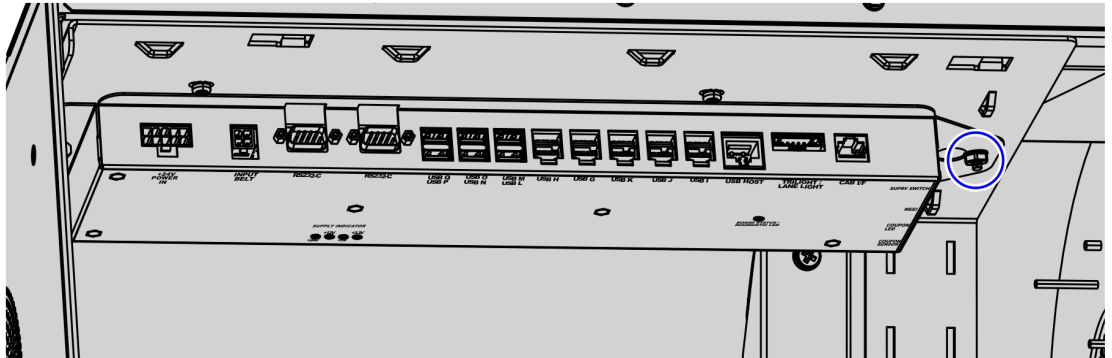


**Note:** To upgrade to R6 Tri-Light/Lane Light, refer to the 7350-K971 R6 Tri-Light/Lane Light Upgrade instructions.

2. Attach the I/O Box on the I/O Box Mounting Plate and then secure using one nut, as shown in the image below.



- Slide the I/O Box assembly to the left to engage the mounting hooks on the cabinet frame and then secure using two screws.



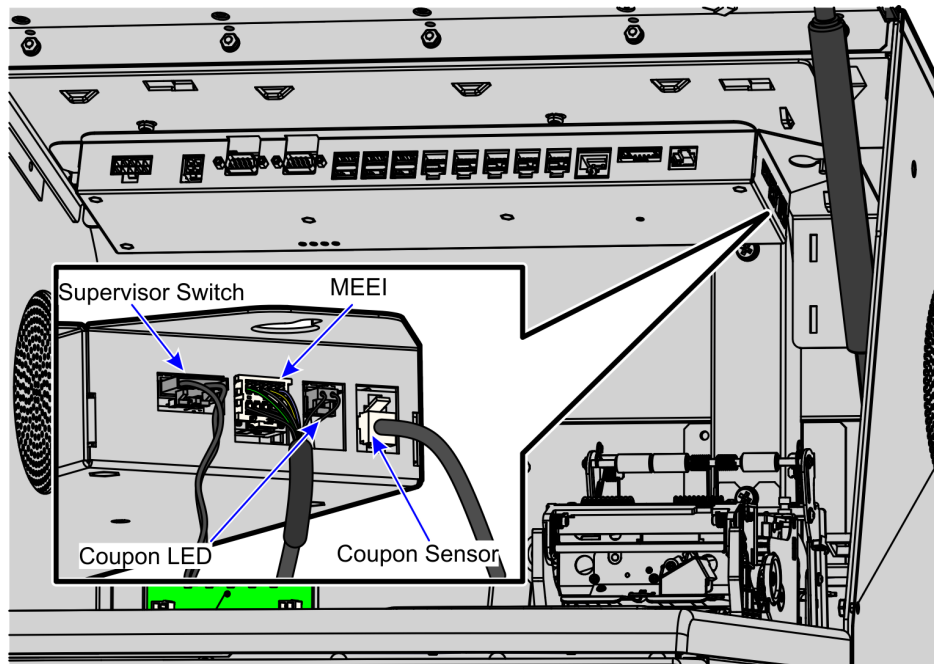
CCP-72640

- Connect the cables as shown in the images below.

### Side Cables

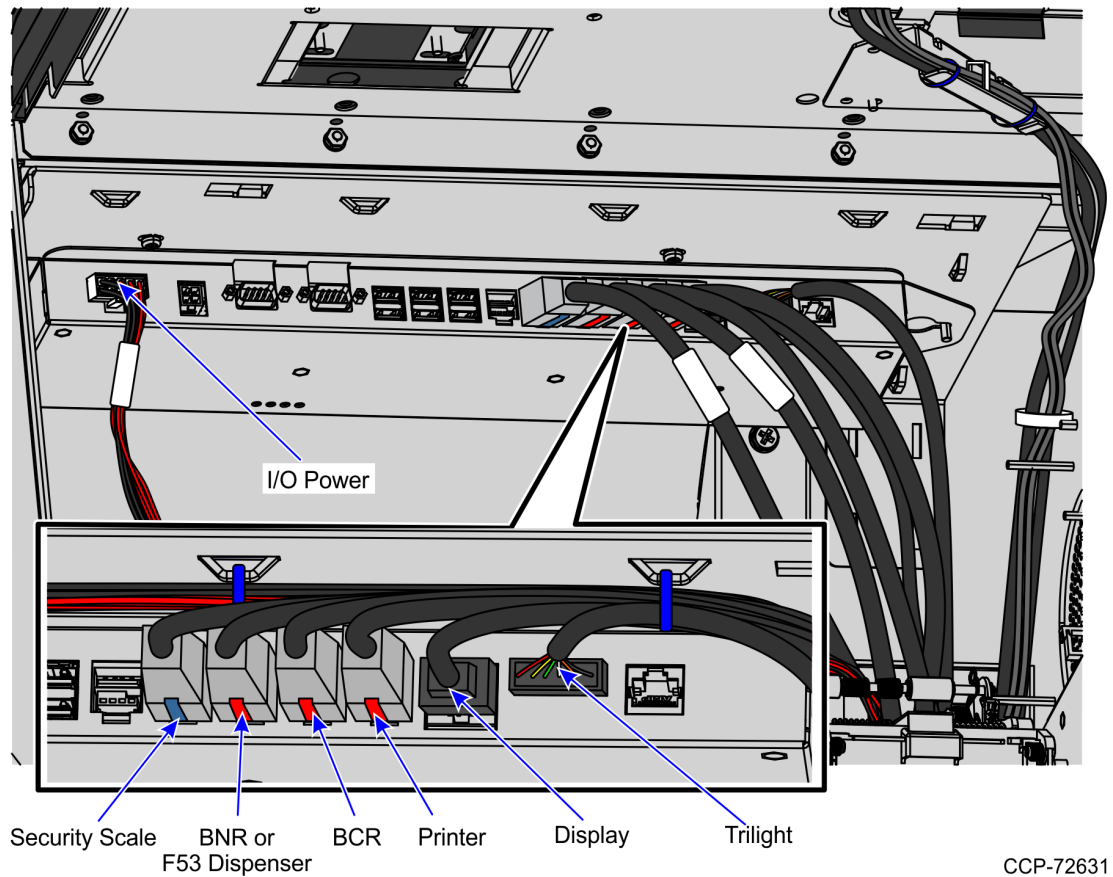


**Note:** Use an Adapter Cable for the MEEI Controller Box cable before plugging in to the I/O Box.



CCP-72717

## Front Cables



5. Do any of the following:

- Install the system power supply. For more information, refer to [Installing the System Power Supply](#) on page 21
- Route the I/O Box cables. For more information, refer to [Routing I/O Box Cables](#) on page 31.



**Note:** For more information about routing cables, refer to the *SCO Release 6 Lite Cable Routing Instructions* (497-0519586).

## Adjusting Tri-Light/Lane Light Jumper Settings to +24V

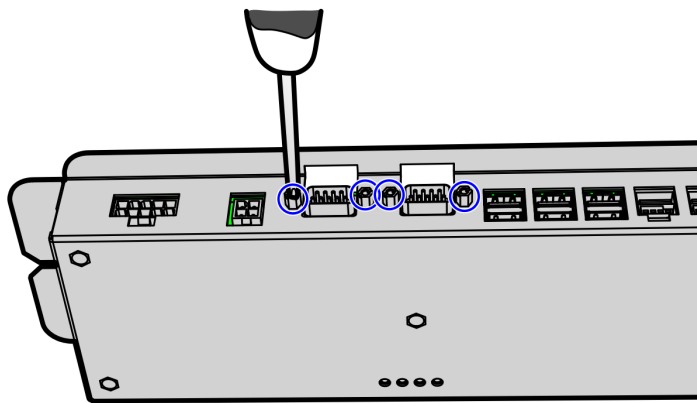
The R6 Tri-Light/Lane Light is powered by +24Vdc through the 7360 I/O Box. To adjust the jumper settings, follow these steps:

1. Remove all cables from the 7360 I/O Box.



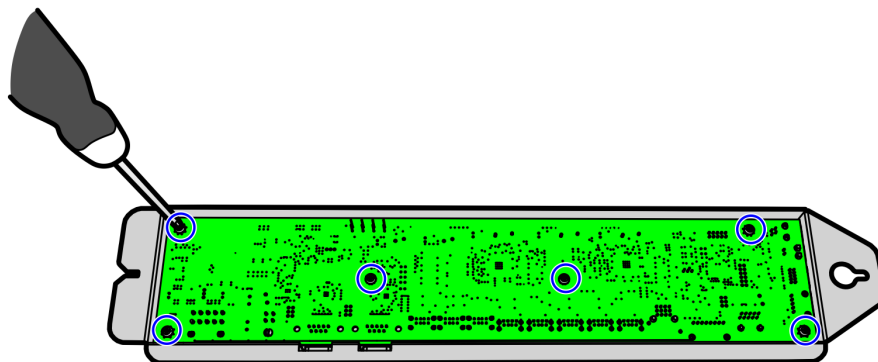
**Tip:** Mark all cables as to where they are connected to easily reconnect them.

2. Detach the I/O Box from the SelfServ Checkout unit by removing one nut securing the I/O Box to the I/O Box Mounting Plate.
3. Do the following:
  - Remove four screws securing two RS232 Ports to the I/O Box.



CCP-72761

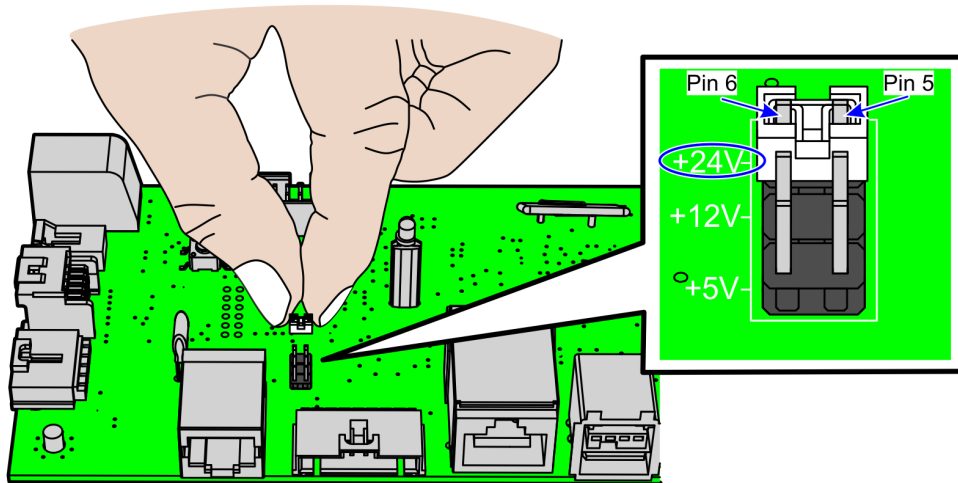
- Remove six screws securing the I/O Board to the I/O Box.



CCP-72760

- Remove the I/O Board from the I/O Box and then place it on a flat surface.

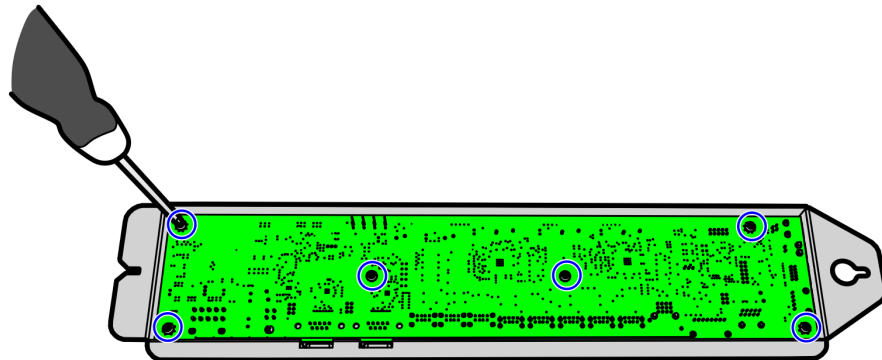
4. On the I/O Board, remove the jumper and set it on Pin 5 and Pin 6 as shown in the image below.



CCP-72762

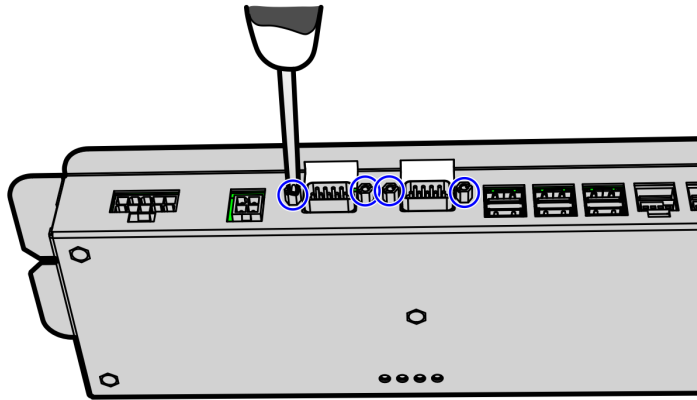
Each jumper setting corresponds to a specific Tri-Light/Lane Light.

- **+24Vdc**— Powers the R6 Tri-Light/Lane Light.
  - **+12Vdc**— Powers the R6 Cylindrical Tri-Light/Lane Light.
  - **+5Vdc**— Powers the 7350 (R5) Tri-Light/Lane Light.
5. Do the following:
    - Secure the I/O Board to the I/O Box using six screws.



CCP-72760

- Secure two RS232 Ports to the I/O Box using four screws.



CCP-72761

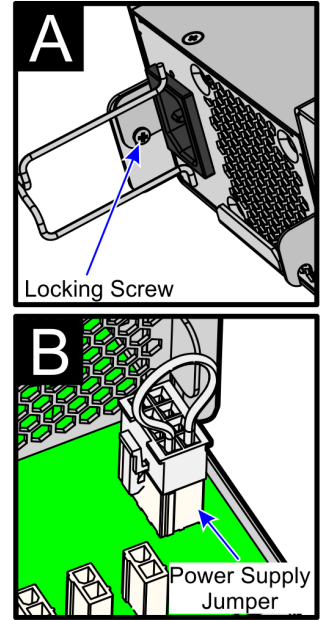
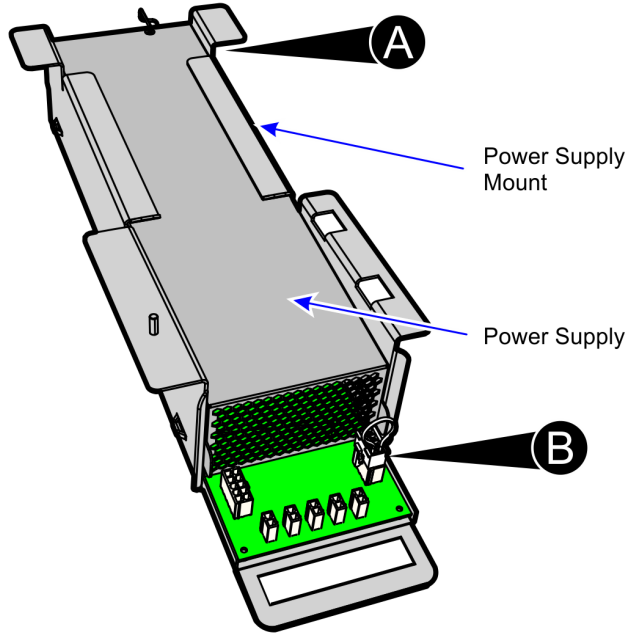
6. Install the I/O Box to the SelfServ Checkout unit by securing it to the I/O Box Mounting Plate using one nut.



## Installing the System Power Supply

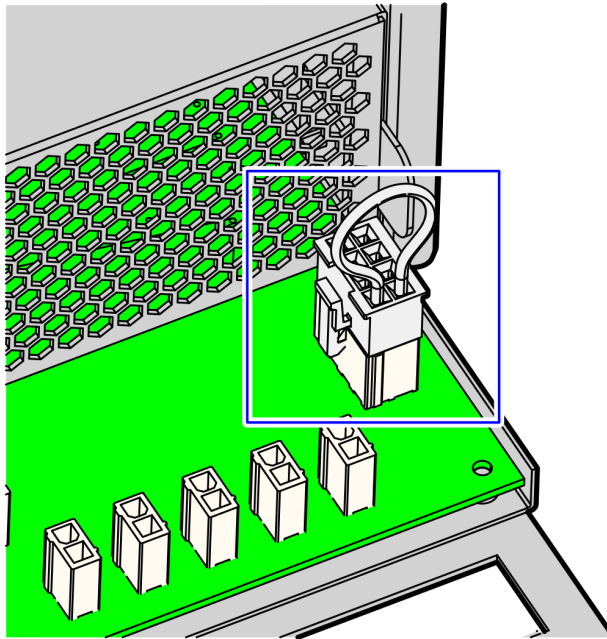
To install the System Power Supply, follow these steps:

1. Remove the existing 7350 components that need to be replaced.
2. Attach the System Power Supply to the Power Supply mount and then secure with a locking screw.



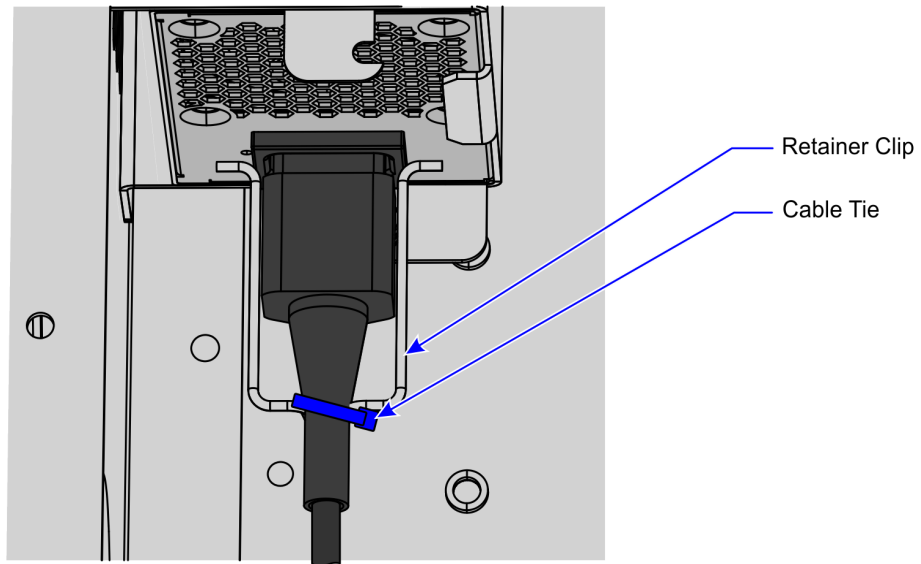
CCP-72644

3. Connect the jumper to the System Power Supply.



CCP-72643

4. At the back of the Sytem Power Supply, connect the power cable. Ensure the cable is secured to the Retainer Clip.

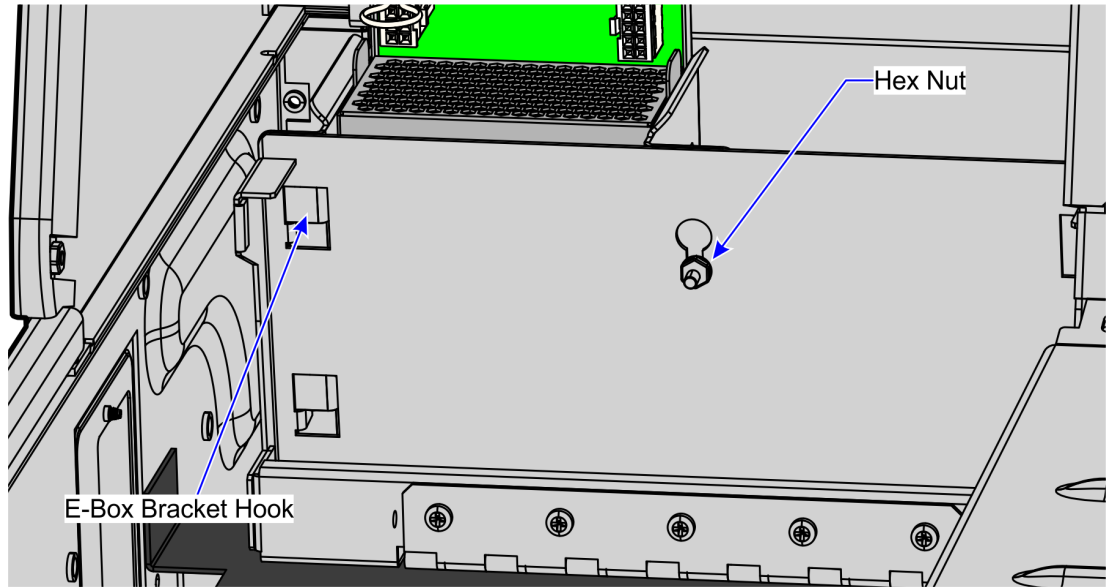


CCP-72716

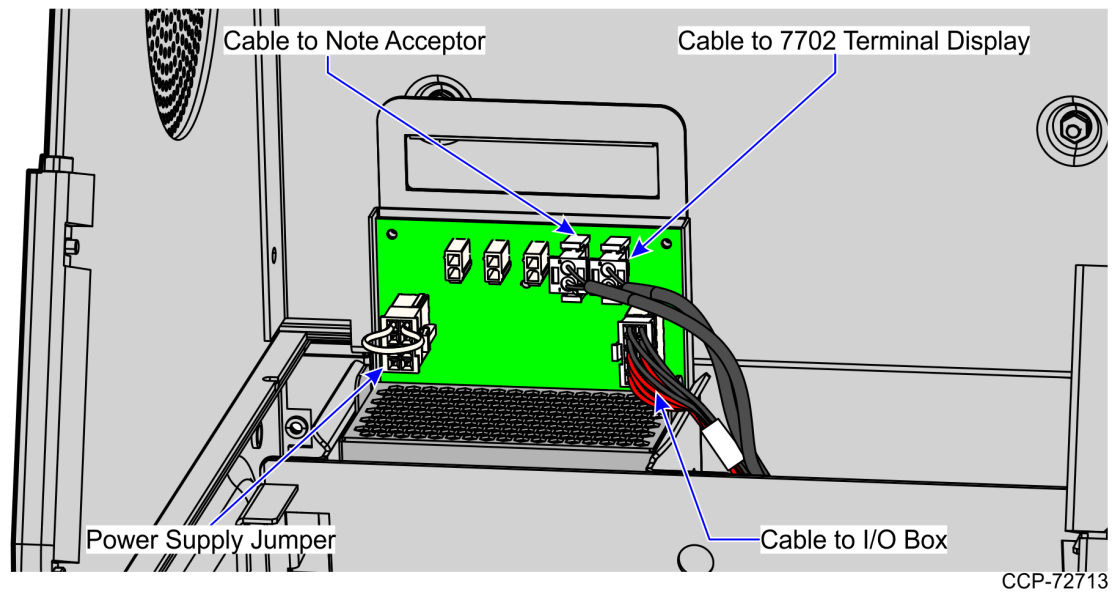
- Slide the System Power Supply on the E-Box bracket and then secure with one nut.



**Note:** The System Power Supply chassis has hooks on the bottom that are used to hinge the device to the cabinet.



- Secure the System Power Supply to the cabinet using one screw.
- Connect the cables to the System Power Supply as shown below.



8. Do any of the following:

- Install the NCR RealPOS XR7 (7702) Display. For more information, refer to [Installing the NCR 7702 Terminal Display](#) on page 26.
- Route the System Power Supply cables. For more information, refer to [Routing System Power Supply Cables](#) on the facing page.

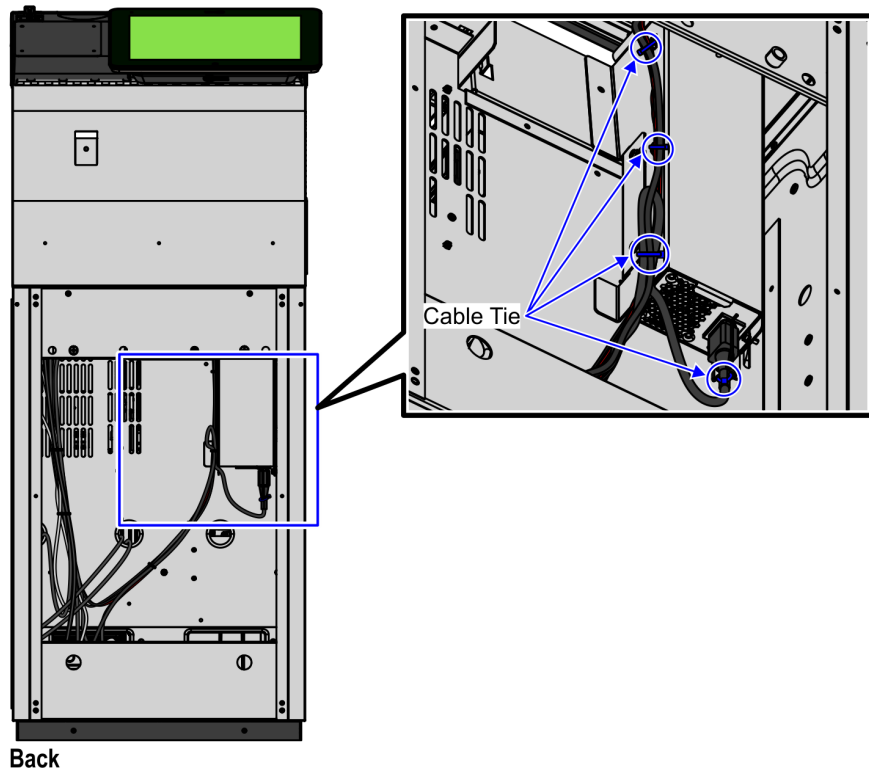


**Note:** For more information about routing cables, refer to the *SCO Release 6 Lite Cable Routing Instructions* (497-0519586).

## Routing System Power Supply Cables

To route the System Power Supply cables, follow these steps:

1. Install the System Power Supply. For more information, refer to [Installing the System Power Supply](#) on page 21.
2. Secure the cables to the System Power Supply chassis using cable ties as shown in the image below.



CCP-72642

3. Route and sort cables. For more information, refer to [Routing System Power Supply Cables](#) above.



**Note:** For more information about routing cables, refer to the *SCO Release 6 Lite Cable Routing Instructions* (497-0519586).

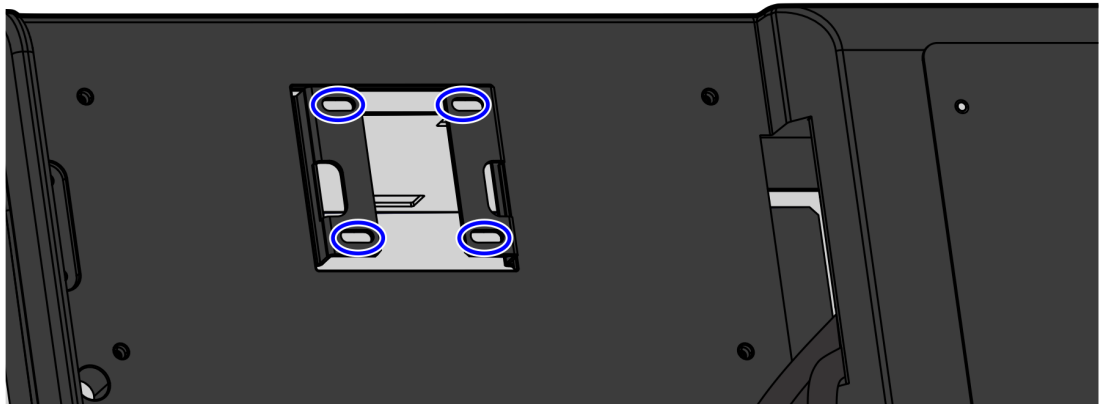
## Installing the NCR 7702 Terminal Display

To install the NCR 7702 Terminal Display, follow these steps:



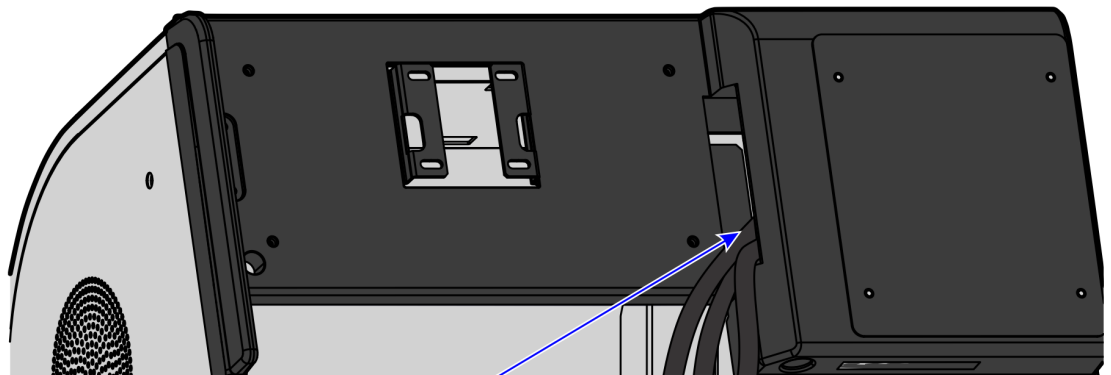
**Note:** To purchase an NCR 7702 Terminal Display, contact an NCR Customer Representative.

1. Remove 7350 components that must be replaced with R6 Lite components.
2. Install the mounting bracket on the back of the Display. For more information, refer to [Installing the Display Mounting Bracket](#) on page 13.
3. Align the four PEM studs over the holes on the Upper Cabinet Door.



CCP-72708

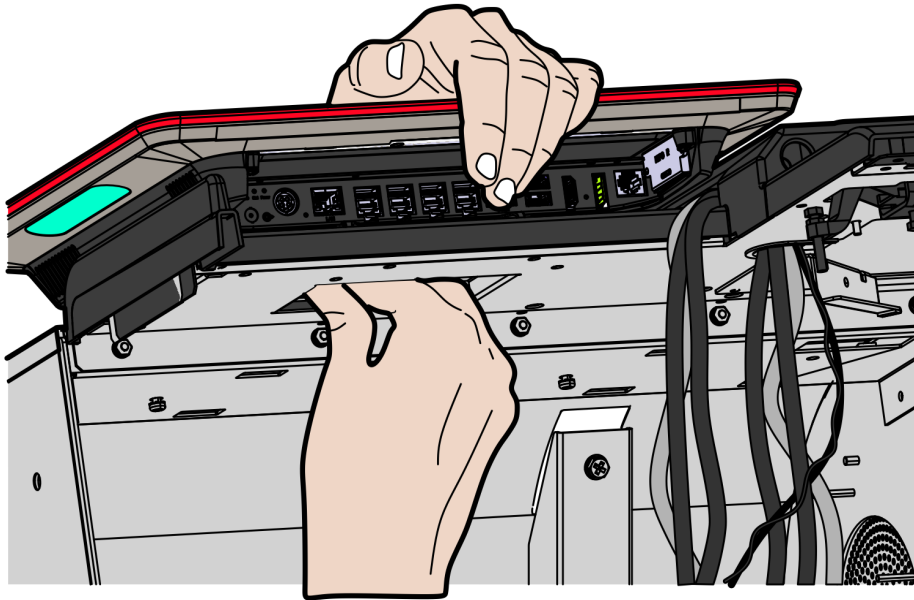
4. Open the Upper Cabinet Door.
5. Insert the Display cables, as indicated in the image below.



Display Cables

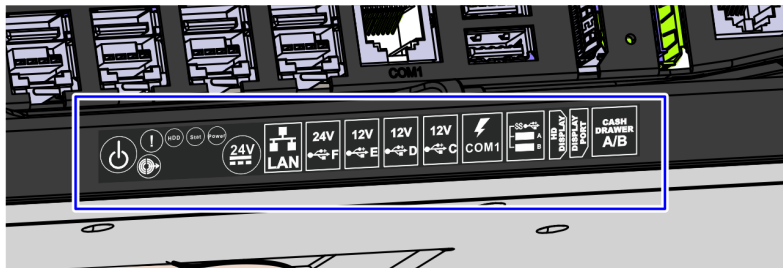
CCP-72641

- 6. Secure the Display on the Upper Cabinet Door using four nuts.



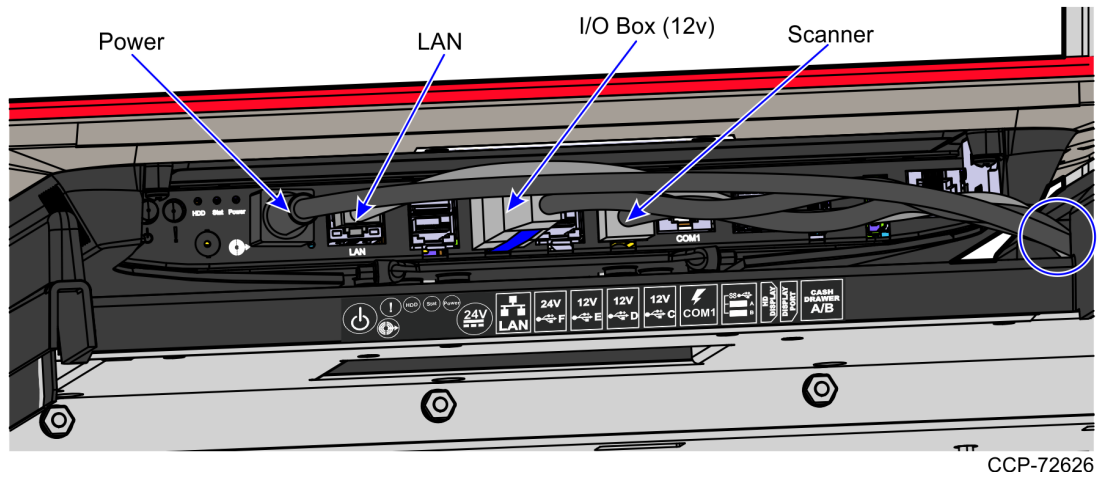
CCP-72628

- 7. Install the Display Connector Ports label.



CCP-72629

8. Connect cables to the terminal.



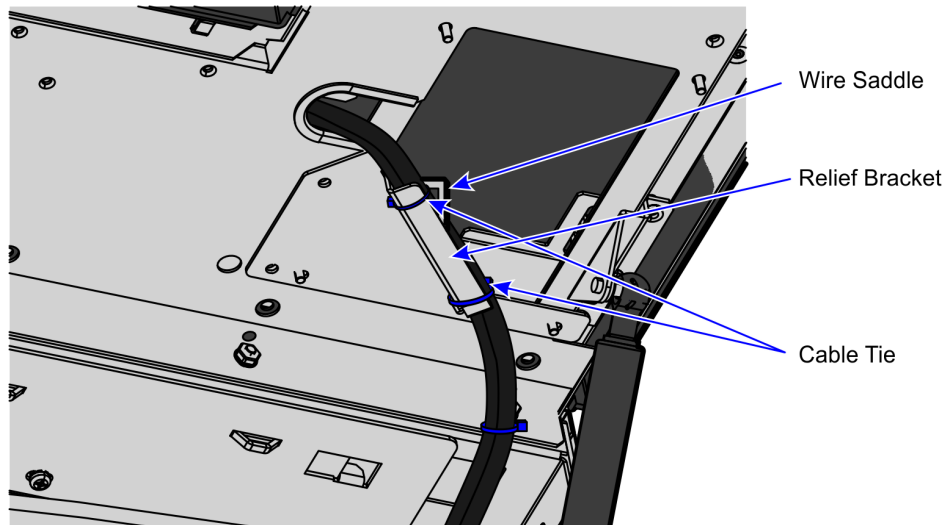
9. Route the Display cables. For more information, refer to [Routing NCR 7702 Terminal Display Cables](#) on the facing page.
10. Install R6 Lite components. For more information, refer to the following procedures:
  - a. [Installing the 7360 I/O Box](#) on page 15.
  - b. [Installing the System Power Supply](#) on page 21.



## Routing NCR 7702 Terminal Display Cables

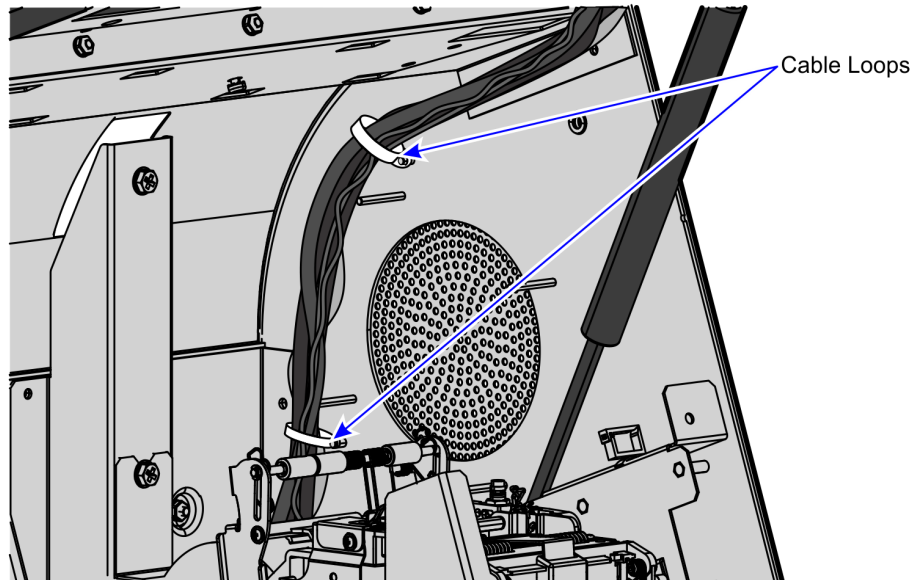
To route the Display cables in the NCR SelfServ Checkout unit, follow these steps:

1. Open the Upper Cabinet Door.
2. Install the Terminal Display. For more information, refer to [Installing the NCR 7702 Terminal Display](#) on page 26.
3. At the back of the Upper Cabinet Door, route the cables down the hole, through the wire saddle and relief bracket and then secure the cables using cable ties. Apply enough slack to the cables so that they can move with the Upper Cabinet Door.



CCP-72627

4. Using cable loops, route the following cables from the back of the unit along the side of the Core Cabinet, as shown below.



CCP-72630



**Note:** The Supervisor Button cable is also routed through the cable loops.

5. Install R6 Lite components. For more information, refer to the following procedures:
  - a. [Installing the 7360 I/O Box](#) on page 15.
  - b. [Installing the System Power Supply](#) on page 21.
6. Route and sort cables. For more information, refer to [Routing and Sorting Cables](#) on page 32.

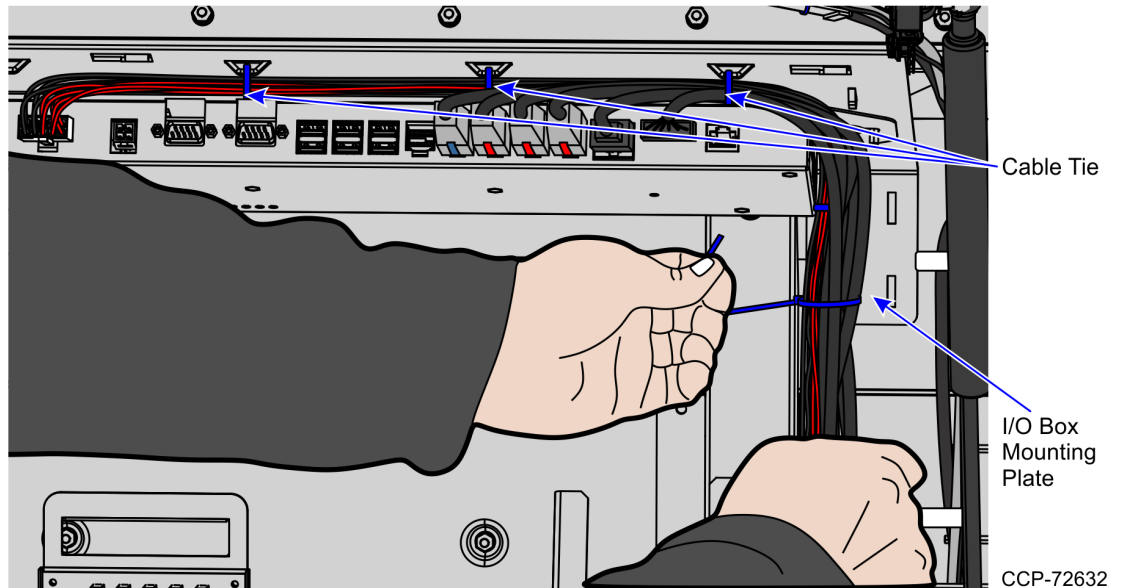


**Note:** For more information about routing cables, refer to the *SCO Release 6 Lite Cable Routing Instructions* (497-0519586).

## Routing I/O Box Cables

To route the I/O Box cables in the NCR SelfServ Checkout unit, follow these steps:

1. Install the I/O Box. For more information, refer to [Installing the 7360 I/O Box](#) on page 15.
2. Open the Upper Cabinet Door.
3. Using cable ties, wrap the cables and then tie them on corresponding lance bridges to fix the cables on the Upper Cabinet frame as shown in the image below.



4. Using cable ties, group the cables exiting to the back of the unit and then tie them on the I/O Box mounting plate as shown in the image above.
5. Route and sort cables. For more information, refer to [Routing and Sorting Cables](#) on the next page.



**Note:** For more information about routing cables, refer to the *SCO Release 6 Lite Cable Routing Instructions* (497-0519586).

6. Close the Upper Cabinet Door.

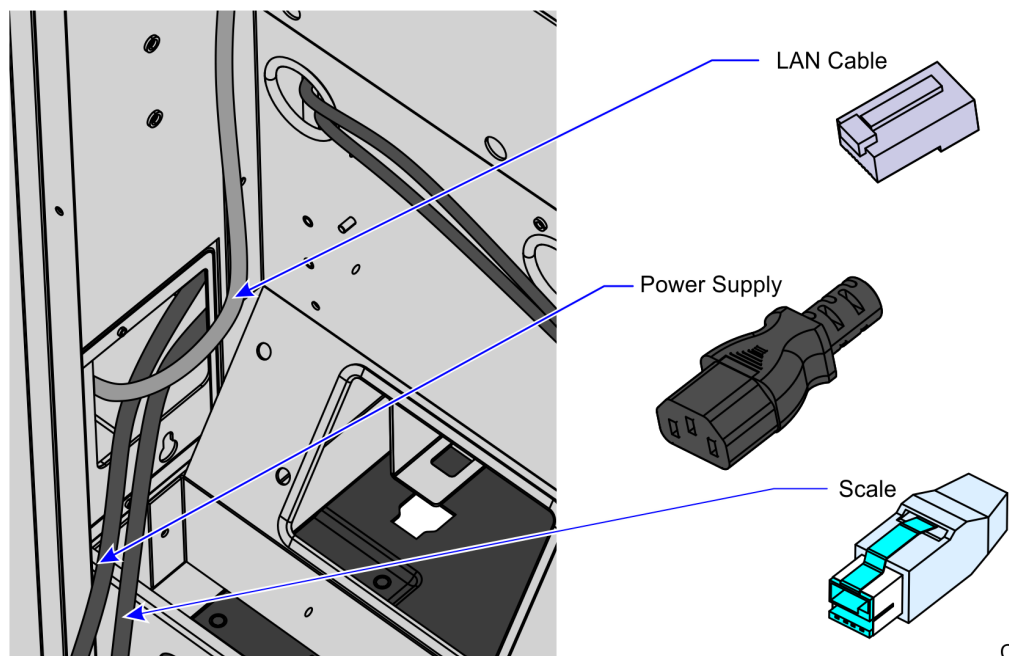
## Routing and Sorting Cables

To route the cables in the R6 Lite unit, follow these steps:

1. Install all R6 Lite components.
2. Remove and sort existing 7350 cables. For more information, refer to [Removing and Sorting Cables](#) on page 11.
3. At the back of the unit, identify and ensure that only three cables are coming out from the bagwell, as shown below.



**Note:** If upgrading to 7360 (R6) Tri-Light/Lane Light, unplug the 7350 (R5) Tri-Light/Lane Light power cable from the power strip and then discard.



CCP-72710

4. If R6 Lite cables are not yet routed in the unit, do the following:

- Route the Display cables. For more information, refer to [Routing NCR 7702 Terminal Display Cables](#) on page 29.
- Route the I/O Box cables. For more information, refer to [Routing I/O Box Cables](#) on page 31.
- Route the System Power Supply cables. For more information, refer to [Routing System Power Supply Cables](#) on page 25.



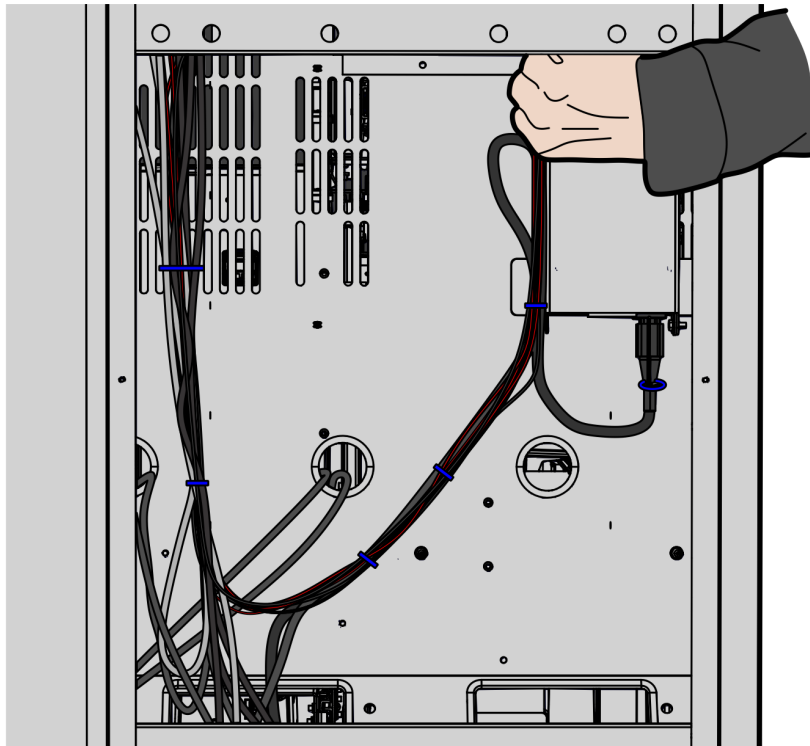
**Note:** For more information about routing cables, refer to the *SCO Release 6 Lite Cable Routing Instructions* (497-0519586).

5. At the back of the unit, identify and then group the cables using cable ties.

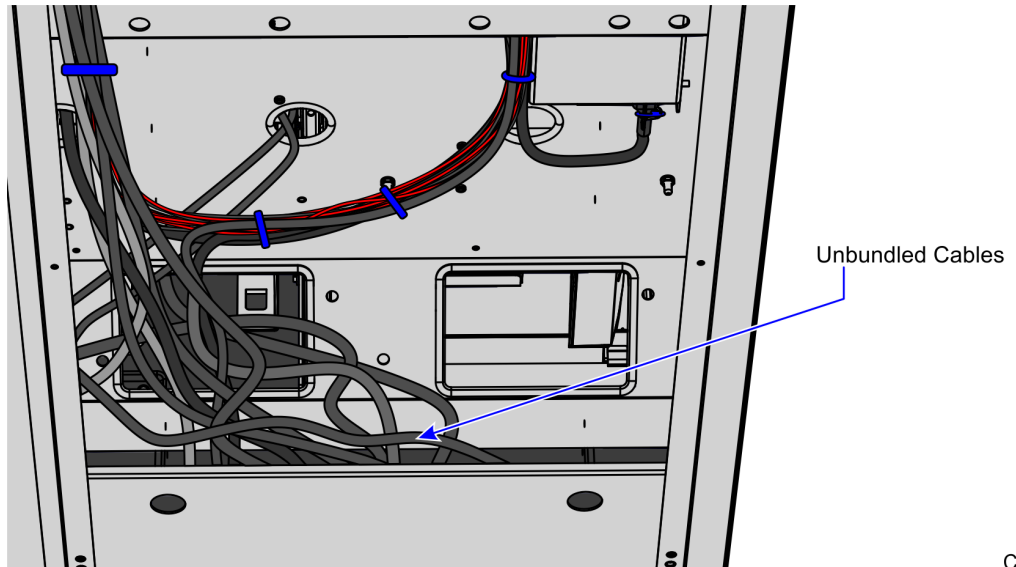
**Example:** Group cables that are connected to the Display and group cables that are connected to the I/O Box.



**Note:** For easier removal, do not include the Tri-Light/Lane Light cable in the bundle.



6. Place additional cables that cannot be bundled properly in the lower section of the cabinet as shown in the image below.



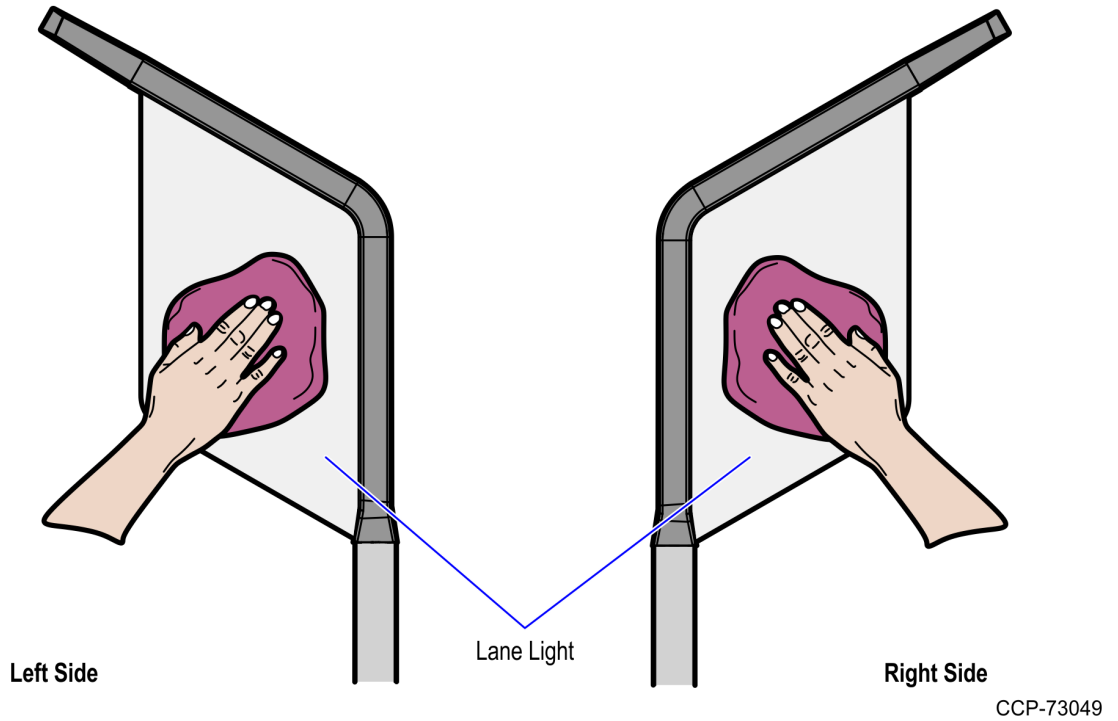
CCP-72715

7. Install the back panel cover to the NCR SelfServ Checkout unit.

## Installing Lane Light Label

To install the label on each side of the Lane Light, follow these steps:

1. Remove the Tri-Light/Lane Light assembly, if necessary.
2. Wipe any dust or dirt on the surface of both sides of the Lane Light.



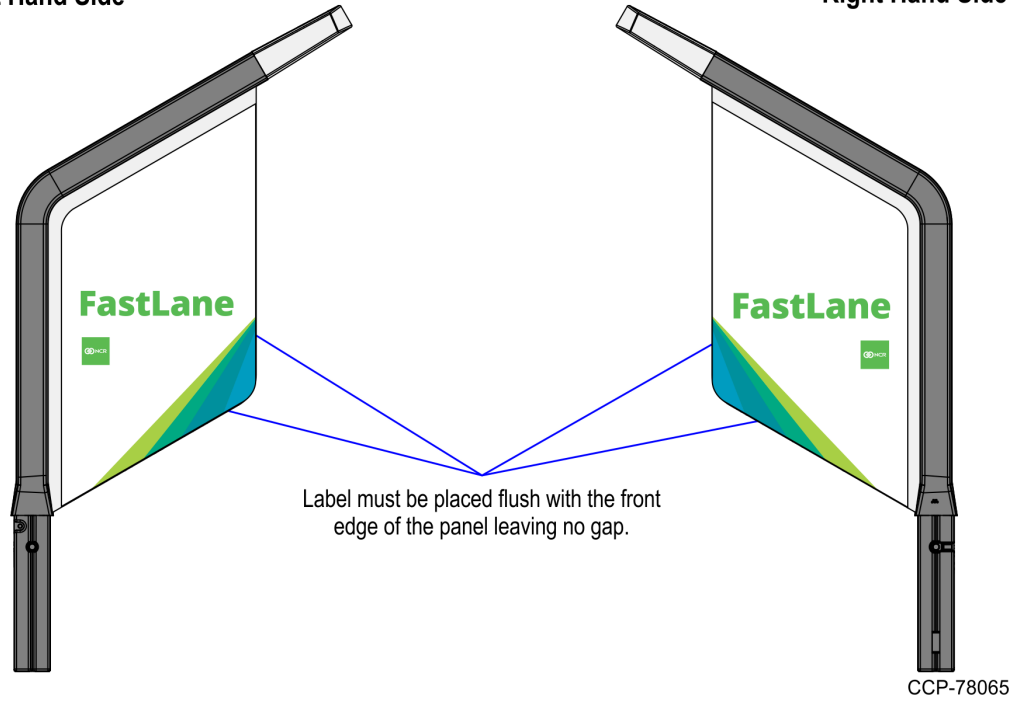
3. Set the Lane Light on a flat surface.

4. Depending on the type of Lane Light label, do either of the following:

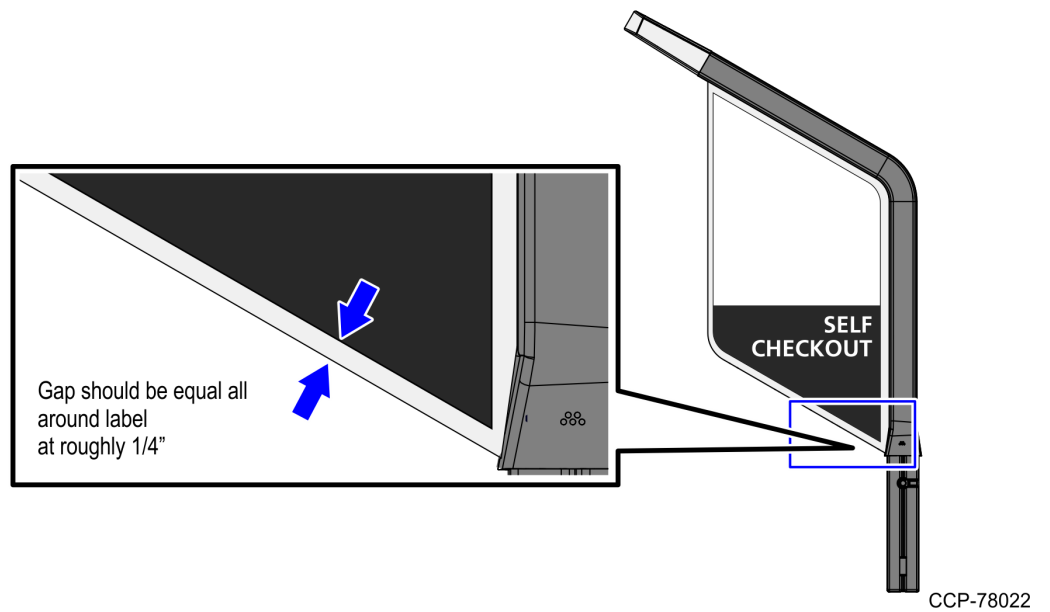
- Position the label on the Lane Light. Ensure that the label is flush with the front edge of the Lane Light, as shown in the image below.

Left Hand Side

Right Hand Side



- Position the label on the Lane Light so that there is an equal space of  $\frac{1}{4}$  in (6.35 mm) around the label.

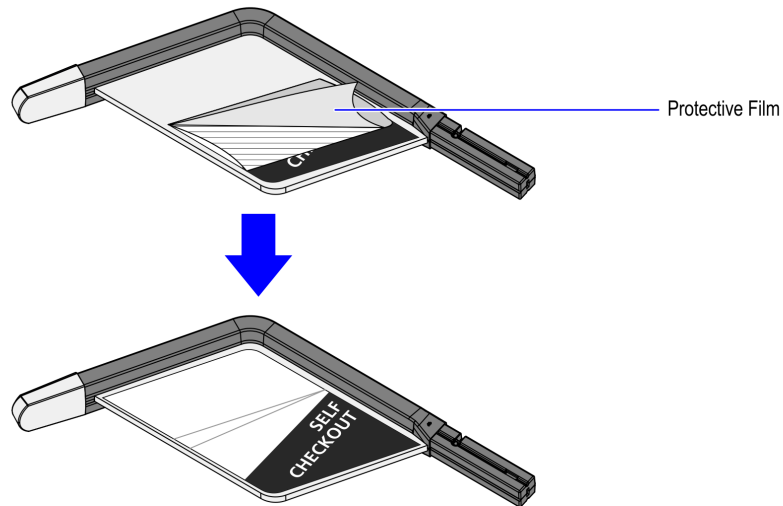




5. Hold half of the label in place while peeling off the protective film from the other half of the label and then attach the label on the Lane Light, as shown in the image below.



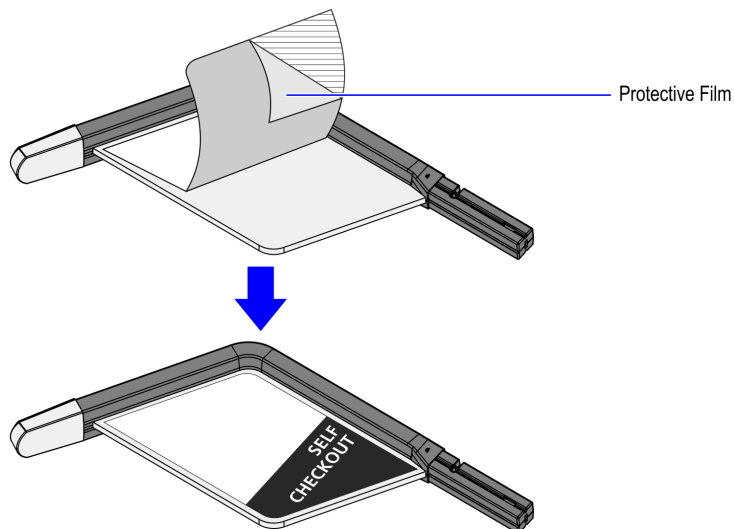
**Note:** For the purpose of illustration only, the image below shows a Lane Light (Self-Checkout) label.



6. Peel off the adhesive tape from the other half of the label and then attach the label to the Lane Light.



**Note:** For the purpose of illustration only, the image below shows a Lane Light (Self-Checkout) label.

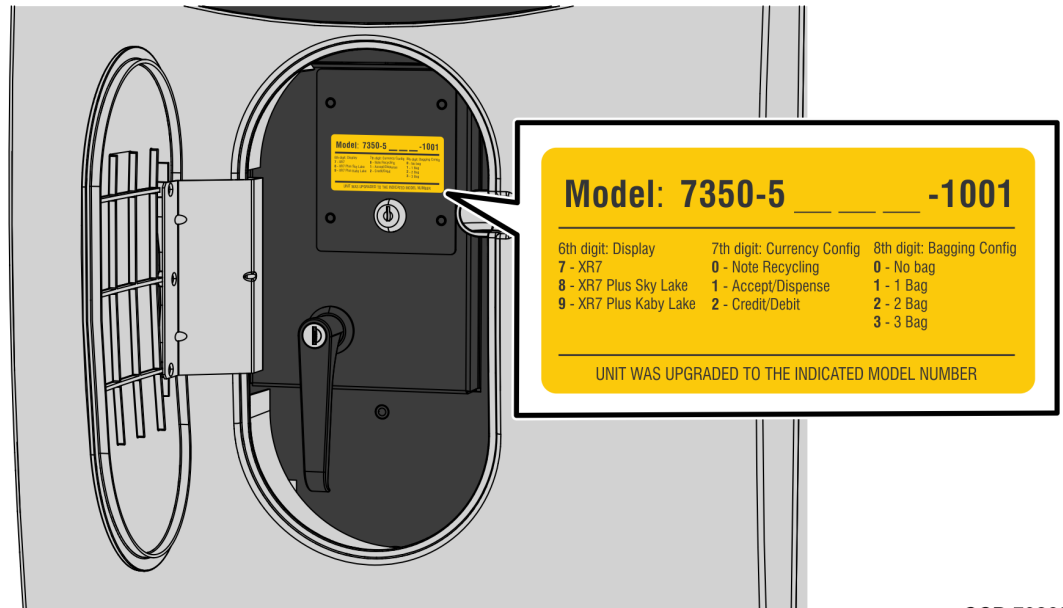


7. Smooth out any air bubbles.

## Installing 7350 R6 Lite Product Identification (PID) Upgrade Label

To install the PID label, follow these steps:

1. Open the Core Door. For more information, refer to [Opening Core Door](#) on page 41.
2. Peel off the protective film from the PID Upgrade label and then attach the label on the location shown in the image below.



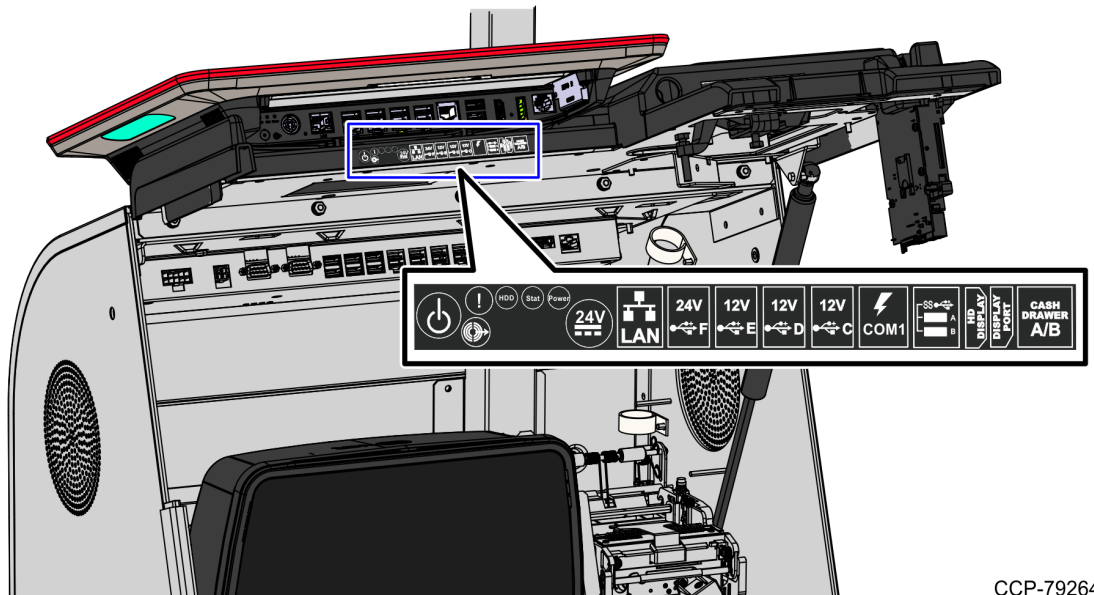
CCP-79263

3. Update the DMI (Desktop Management Interface). For more information, refer to the "Terminal Display SPI/BIOS" section of the *NCR SelfServ™ Checkout (7350) R6 Lite Hardware Service Guide (BCC5-0000-5212)*.

## Installing Display Connector Ports Label

To install the Display Connector Ports label, follow these steps:

1. Open the Upper Cabinet Door. For more information, refer to [Opening Upper Cabinet Door](#) on page 43.
2. Peel off the protective film from the Display Connector Ports label and then attach the label on the location shown in the image below.



CCP-79264

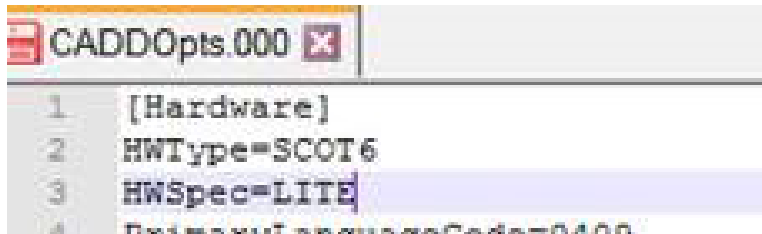
## Configuring Serial Type Cash Acceptors.

To configure serial type Cash Acceptors for R6 Lite units, follow these steps:

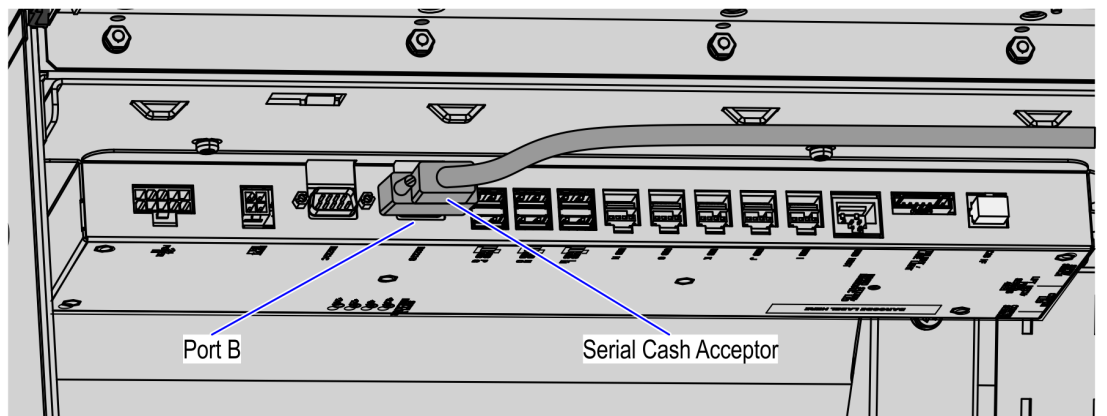


**Note:** Ensure that this procedure is performed to make the serial type Cash Acceptor work with the unit.

1. Confirm that the system is set up for SCOT6 LITE in the CADDOpts.000 file as shown in the image below.

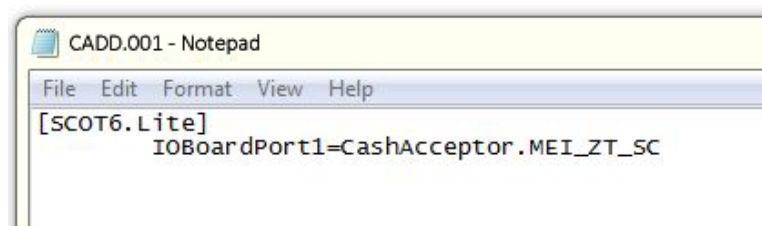


2. Connect the serial Cash Acceptor to Port B of the I/O Box.



CCP-74545

3. Do the following:
  - a. Create a CADD.001 file with entries as shown in the image below.

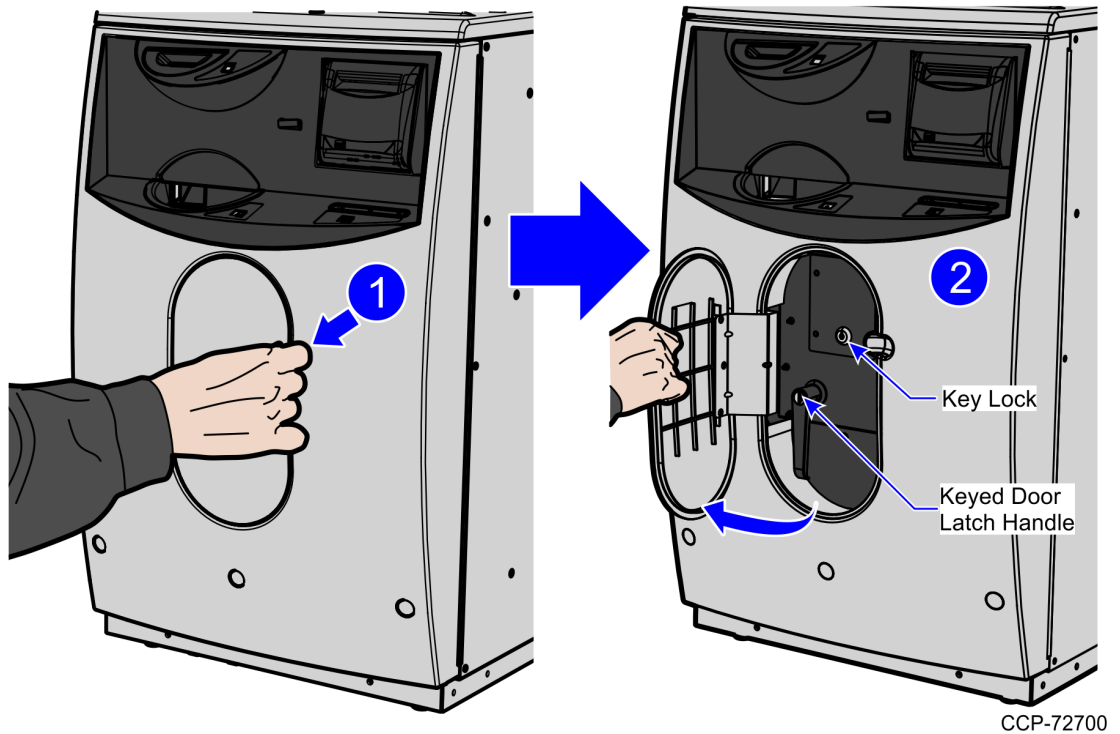


- b. Copy the file to the C:\scot\config directory.
4. Delete the CADDRuntime.dat file from the C:\scot\logs directory.
  5. Run ADD.bat

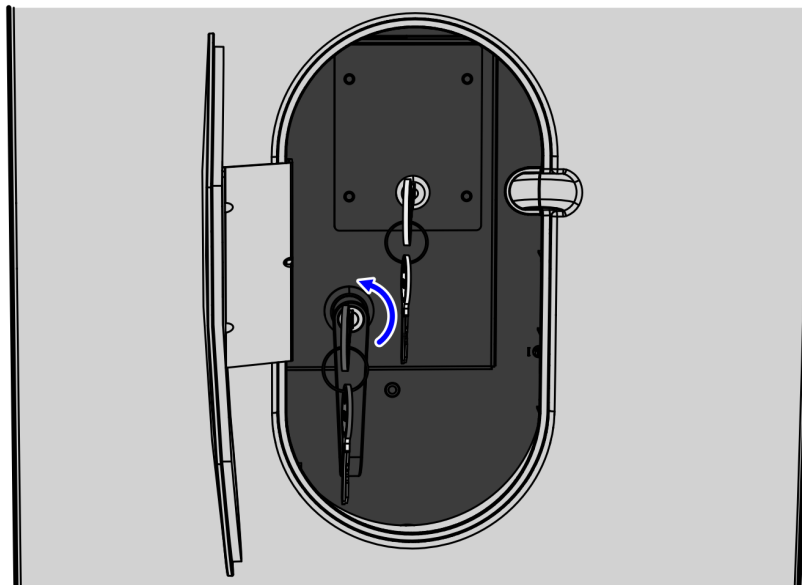
## Opening Core Door

To open the Core Door, follow these steps:

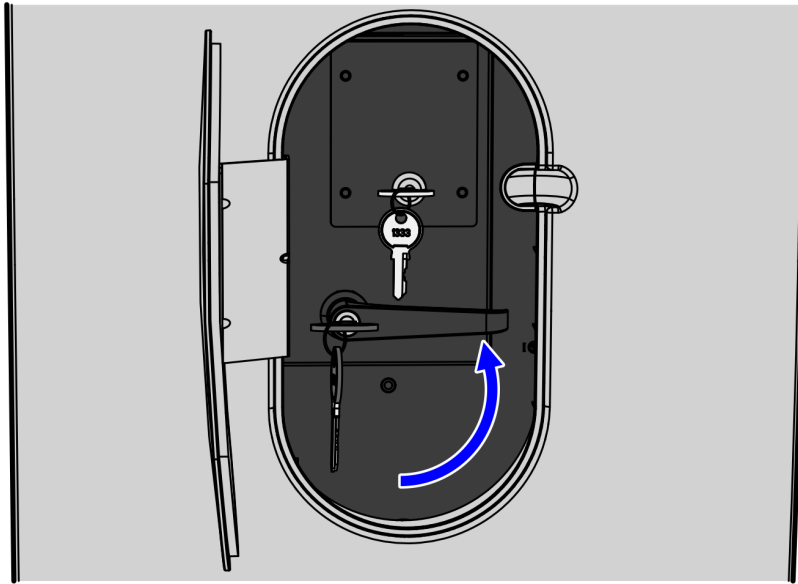
1. Use the finger access on the small door to access the door locks, as shown below:



2. In the middle keyhole, insert a key.
3. In Door Latch Handle keyhole, insert a key and then turn it counterclockwise.



4. Turn the Door Latch Handle upward and then pull to open the Core Door.

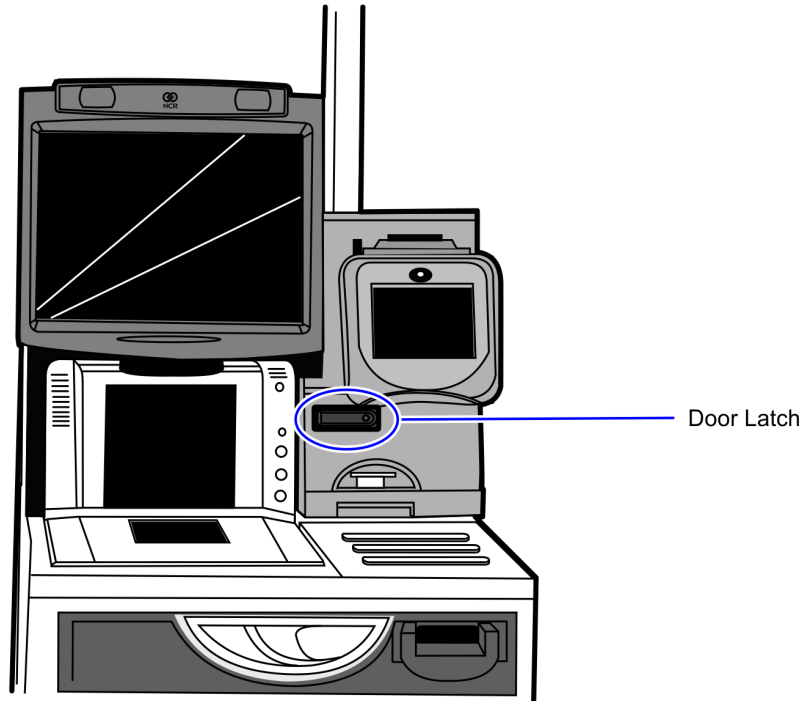


CCP-72702

## Opening Upper Cabinet Door

To open the Upper Cabinet Door, follow these steps:

1. Insert key into lock on door latch and turn key counterclockwise.

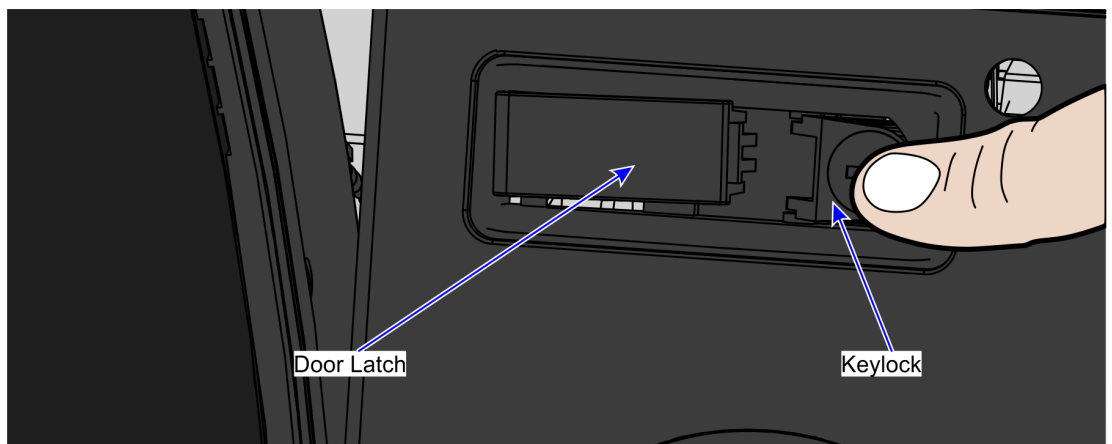


CCP-70311

2. Remove key and then press the keylock to unlatch the door.



**Caution:** Ensure that the door is pushed down while lock is pressed because the door will automatically open.



CCP-72718

3. Lift the door open.