

# Kit Instructions

Printer Mount Upgrade (7709 R1.0/1.1 to R2.0)

7709-K309  
Issue B



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## Revision Record

Issue	Date	Remarks
A	Dec 2019	First Issue
B	May 2021	Updated kit contents and procedures for kit version V002 (upgrade from R1.0/1.1 to R2.0)



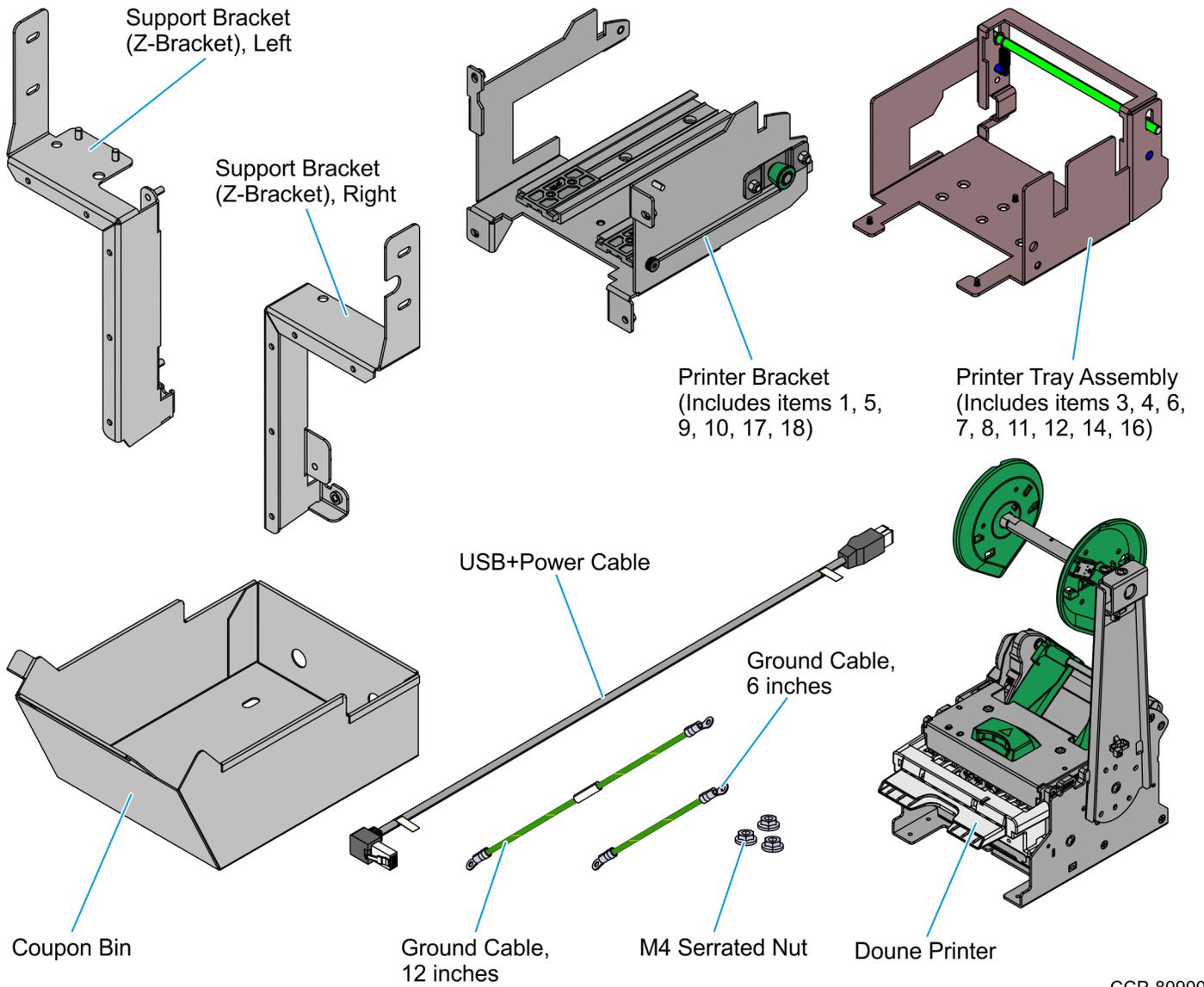
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# Printer Mount Upgrade (7709 R1.0/1.1 to R2.0)

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This publication provides procedures for upgrading the Printer Mount of NCR SelfServ™ 90 (7709) Kiosk from R1.0/1.1 to R2.0.

# Kit Contents



Part Number		Description
497-0530810		Kit - Printer Mount Upgrade from R1.0 - R1.1 to R2.0
1	006-8611753	Nut, Kep, M4 (4 pcs)
2*	006-8615143	Cable Tie, 142mm X 3.6mm (3 pcs)
3	006-8622588	M4 X 6mm Length, Flat Head, Zinc Plated (4 pcs)
4	006-8624581	Screw- M3X0.5X6 Flat Head Phillips Machine (3 pcs)
5	006-8626386	Screw - M4X6, Hex Drive Rounded (6 pcs)
6	006-8626388	E Clip - 5-7 mm OD (2 pcs)
7	006-8626522	Spring - Extension, Free Length 1" (2 pcs)
8	006-8626942	Screw - Shoulder, 5mm D 8mm L, M4
9	006-8627073	Zinc-Plated Steel Nylon-Insert Locknut, Class 8, M4X0.7 (2 pcs)
10	006-8627667	Rail And Carriage Assembly (2 pcs)
11*	497-0456989	Label - Service, Green Stripe
12*	497-0470177	Label - Service, Green, 3.50 X 0.58 In.
13	497-0524044	Cable - USB+Power (24V) to a Latch-n-Lok Pos2 Keyed, 0.61M
14	497-0518794	Latch - Rod, 7709 R1.2
15*	497-0526247	Label - Service, Receipt Printer, Doune Retail
16	497-0520030	Bracket - Printer, Tray, 7709 R2.0
17	497-0524609	Bracket - Printer, 7709 R2.0
18	497-0521278	Plunger Mount, 7709 R1.2
19	497-0524591	Bin, Receipt, Printer
20	497-0527129	Bracket - Support, Right
21	497-0527130	Bracket - Support, Left
22*	497-0527402	Foam Set, Printer Mount Kit
23*	497-0530798	Carton Box, 647 X 434 X 200 mm I.D
24*	497-9999625	Bag, 16" X 14" X 36", 2 Mil Gusseted Poly (3 pcs)
25*	006-8623359	Bag, 2X2 Zip Lock (2 pcs)
26*	497-0423108	Instructions-Kit (Reference Sheet)
27	009-0007087	Serrated Nut - Self Locking (M4, 4.2) (3 pcs)

Part Number		Description
28	497-0435725	Cable -- Ground Wire, 12 AWG, 6"
29	497-0474872	Cable - Ground Wire, 12 AWG, 12 Inch
30	497-0527459	Printer - Receipt 1ST- 80mm (Doune) MFW V62.05, IPL V30.00, SBCS V01.01, DBCS V01.01 TBL V31.03



**Note:** Items marked with an asterisk (\*) are not shown in the image.

# Installation Procedures

Installing the Printer Mount Upgrade kit on an NCR 7709 R1.0/1.1 unit involves the following procedures:

1. Open the NCR 7709 unit. For more information, refer to [Opening the R1.0/1.1 Kiosk](#) on page 7.
2. Disconnect all cables from the Motherboard.
3. Remove the PIN Pad. For more information, refer to [Removing the PIN Pad](#) on page 8.
4. Remove the Imaging Scanner. For more information, refer to [Removing the Imaging Scanner](#) on page 11.
5. Remove the Receipt Printer. For more information, refer to [Removing the Receipt Printer](#) on page 12.
6. Attach the new printer service label over the old one. For more information, refer to [Attaching the New Printer Service Label](#) on page 14.
7. Remove the Supervisor Switch. For more information, refer to [Removing the Supervisor Switch](#) on page 15.
8. Remove the Coupon Sensors. For more information, refer to [Removing the Coupon Sensors](#) on page 15.
9. If present, remove the Sensormatic Antenna. For more information, refer to [Removing the Sensormatic Antenna](#) on page 16.
10. Remove the Display Head. For more information, refer to [Removing the Display Head](#) on page 17.
11. Remove the Rear Head Cover. For more information, refer to [Removing the Rear Cover](#) on page 18.
12. Remove the Old Z-shaped Brackets. For more information, refer to [Removing the Old Z-shaped Brackets](#) on page 21.
13. Install the New Z-shaped Brackets that are included in the kit. For more information, refer to [Installing the New Z-shaped Brackets](#) on page 22.
14. Re-install the Rear Head Cover. For more information, refer to [Installing the Rear Cover](#) on page 23.
15. Replace the old Coupon Bin with the R1.2 Coupon Bin included in the kit. For more information, refer to [Replacing the Coupon Bin](#) on page 25.
16. Re-attach and secure the Display Head Hinge to the cabinet. Do NOT re-attach the chain at this point. For more information, refer to [Installing the Display Head](#) on page 25.
17. If present, re-install the Sensormatic Antenna. For more information, refer to [Installing the Sensormatic Antenna](#) on page 27.

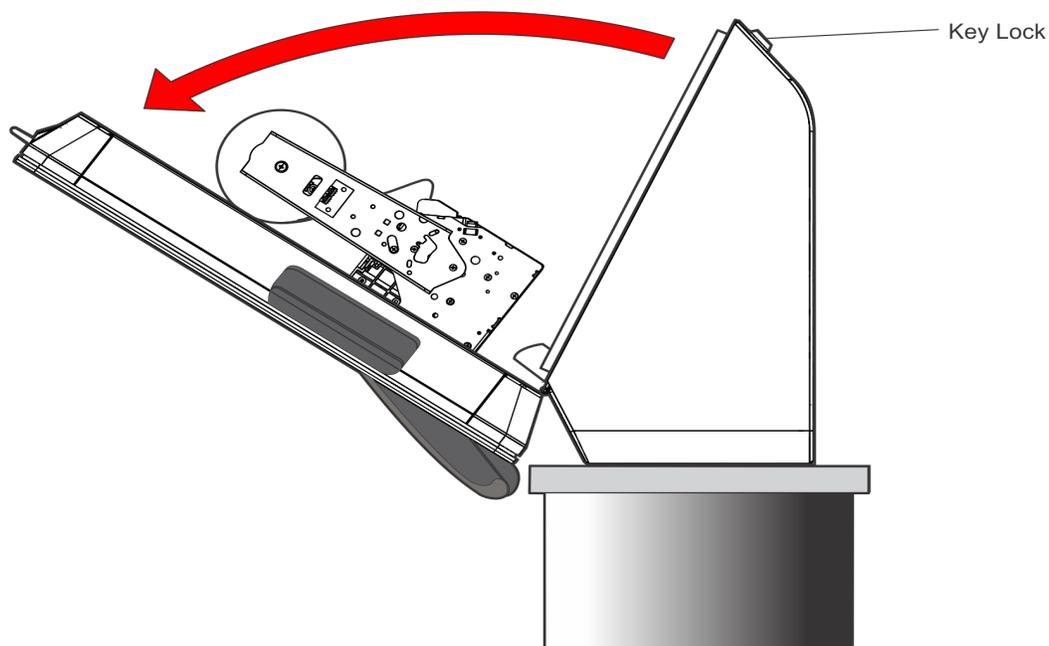
18. Re-install the Coupon Sensors. For more information, refer to [Installing the Coupon Sensors](#) on page 28.
19. Re-install the Supervisor Switch. For more information, refer to [Installing the Supervisor Switch](#) on page 29.
20. Re-install Imaging Scanner. For more information, refer to [Installing the Imaging Scanner](#) on page 31.
21. Re-install Receipt Printer. For more information, refer to [Installing the Receipt Printer](#) on page 32
22. Re-install the PIN Pad. For more information, refer to [Installing the PIN Pad](#) on page 36.
23. Re-attach the Display Head Chain to the cabinet. For more information, refer to [Installing the Display Head](#) on page 25.
24. Connect all cables to the Motherboard. For more information, refer to [Connecting Cables](#) on page 39.

## Opening the R1.0/1.1 Kiosk

To access the kiosk components, follow this step:

- Insert the key into the lock at the back of the kiosk and then, carefully open the front of the kiosk.

 **Caution:** Do NOT abruptly open and release the front of the kiosk. Hold and support the front of the kiosk until fully extended.



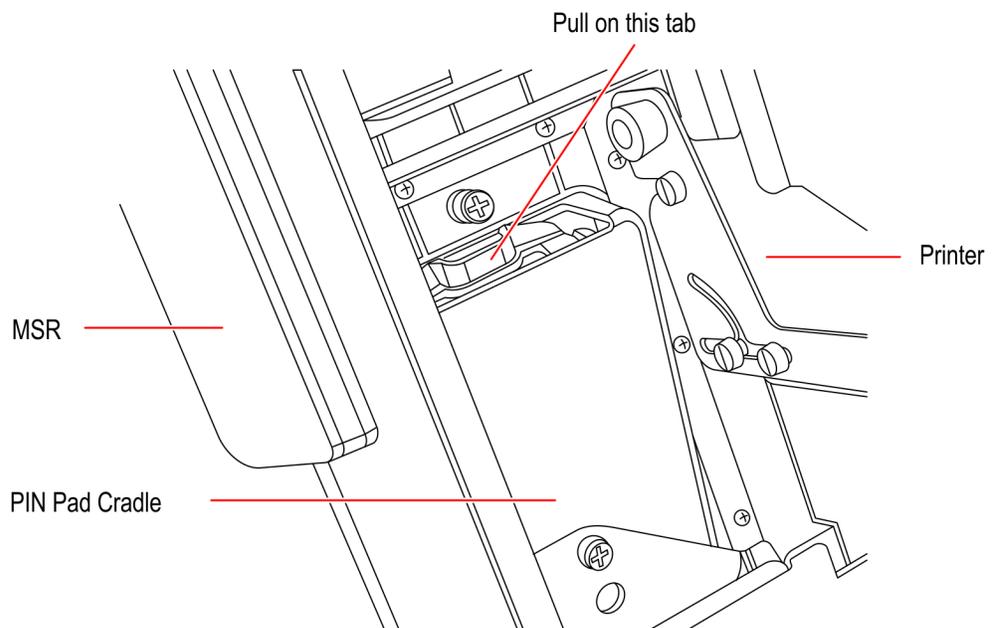
## Removing the PIN Pad

Refer to the following for procedures in removing the PIN Pad from **NCR 7709 R1.0/1.1** units:

- [Removing the Ingenico IPP320/350 PIN Pad](#) below
- [Removing the Verifone VX805/820 PIN Pad](#) on page 10

### Removing the Ingenico IPP320/350 PIN Pad

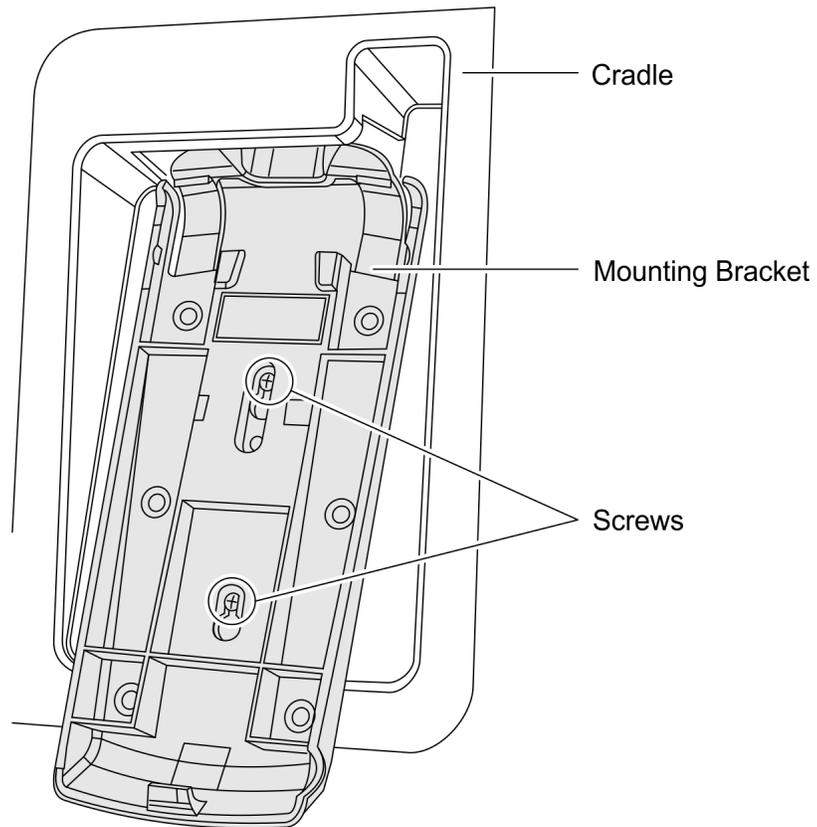
1. While holding the PIN Pad from outside of the kiosk, pull on the tab on the upper portion of the Mounting Bracket (accessed from the inside of the kiosk), and then remove the PIN Pad.



CCP-60091

2. Disconnect the PIN Pad Cable from the PIN Pad.

3. Loosen the two screws that secure the Mounting Bracket to the PIN Pad Cradle.

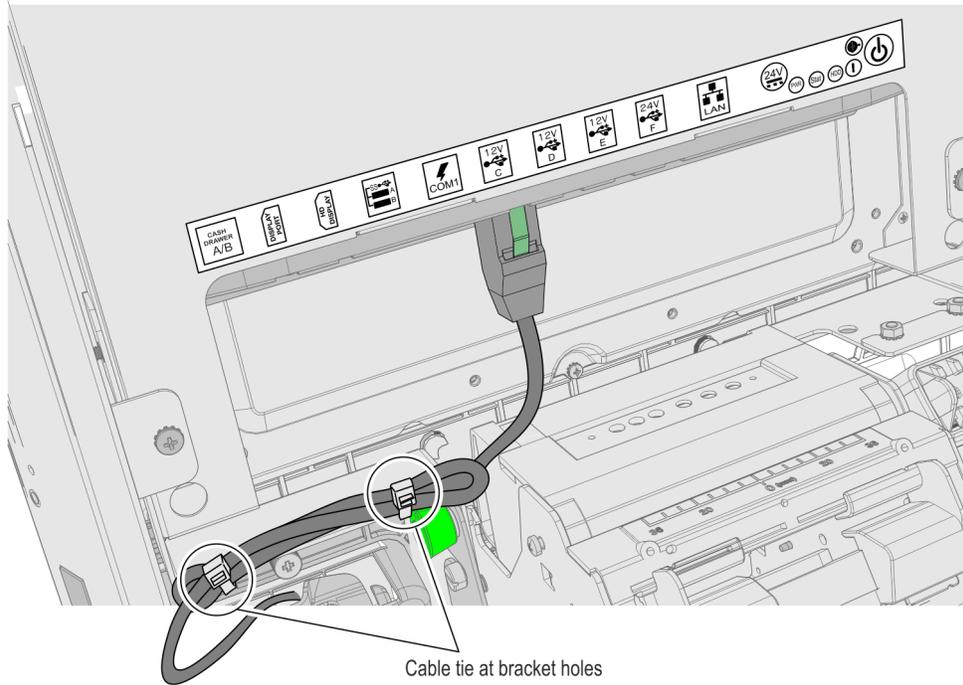


CCP-60090

4. Slide up and remove the Mounting Bracket.

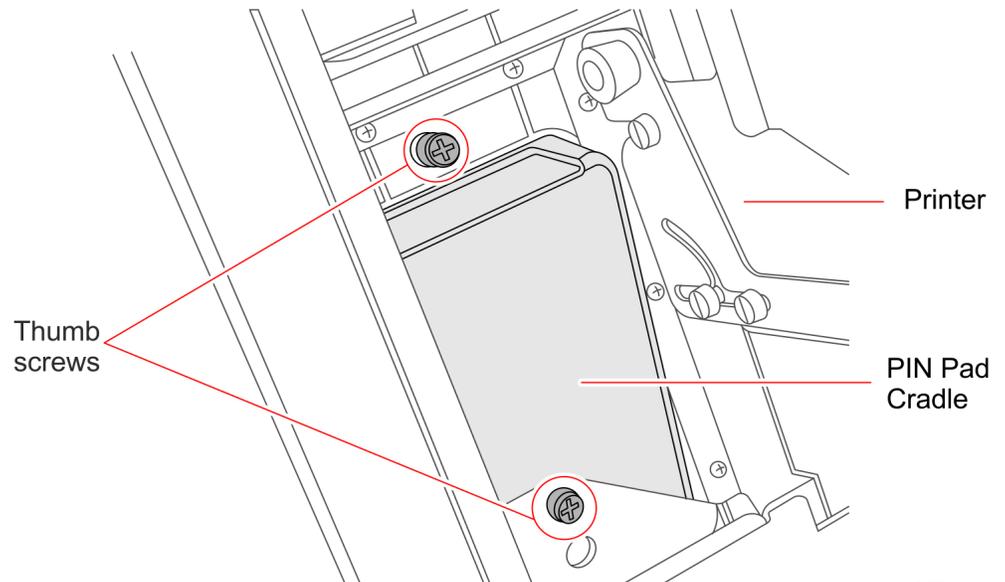
## Removing the Verifone VX805/820 PIN Pad

1. Disconnect the PIN Pad Cable from the Motherboard and cut off cable ties as necessary.



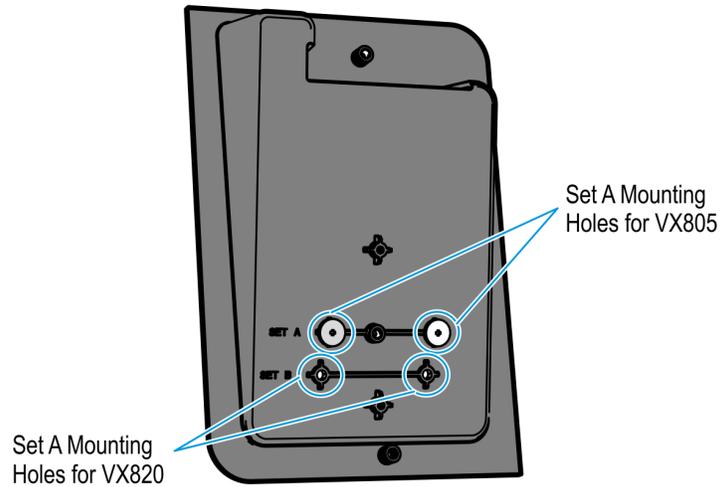
CCP-61345

2. While holding the PIN Pad from outside the Kiosk, loosen the two thumb screws securing the PIN Pad Cradle to the Display Head and then remove the PIN Pad and PIN Pad Cradle Assembly.



CCP-60091

3. Remove the two screws securing the PIN Pad to the PIN Pad Cradle. The VX805 and VX820 are secured to the plate bracket with two screws but different mounting hole sets as shown below.

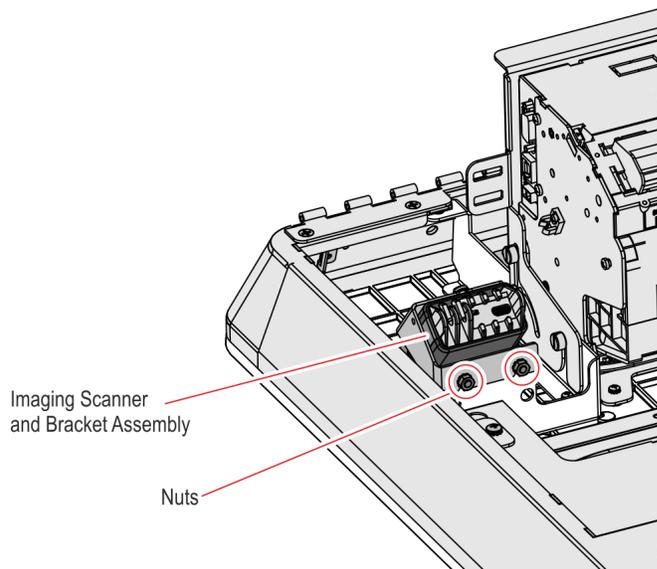


CCP-73058

4. Disconnect the PIN Pad Cable from the PIN pad.

## Removing the Imaging Scanner

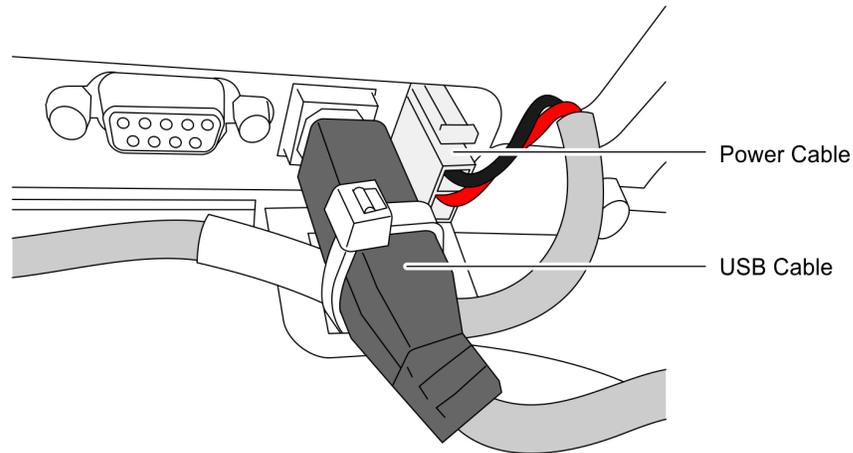
- Remove the two nuts that secure the Imaging Scanner Assembly to the kiosk and then, remove the assembly from the studs.



CCP-61361

## Removing the Receipt Printer

1. Disconnect the Printer USB and Power Cables from the Receipt Printer.

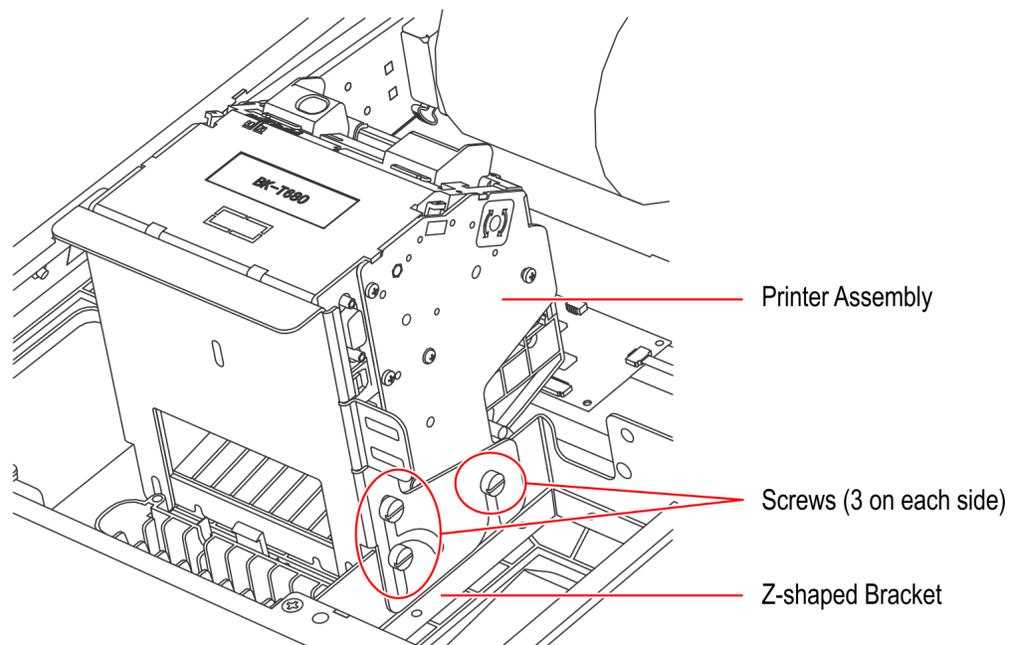


CCP-60042

2. To remove the Printer Assembly from the kiosk, remove the six screws (three on each side) that secure the Printer Assembly to the Z-shaped Brackets, and then gently lift the Printer Assembly off the kiosk.

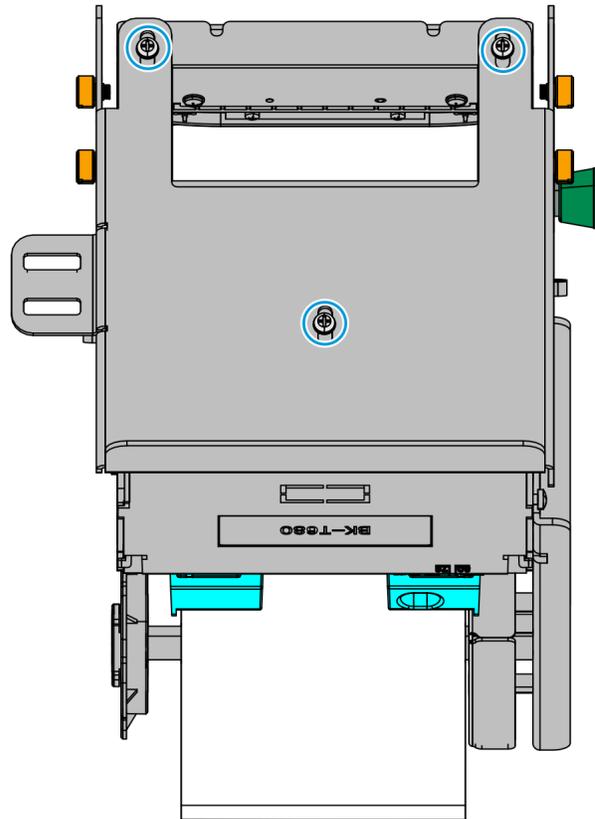


**Note:** Be careful not to damage the Printer Chute and the areas around the Printer Opening.



CCP-60039

3. Remove the Receipt Printer from the Mounting Bracket by removing the three screws at the bottom of the Printer Assembly.

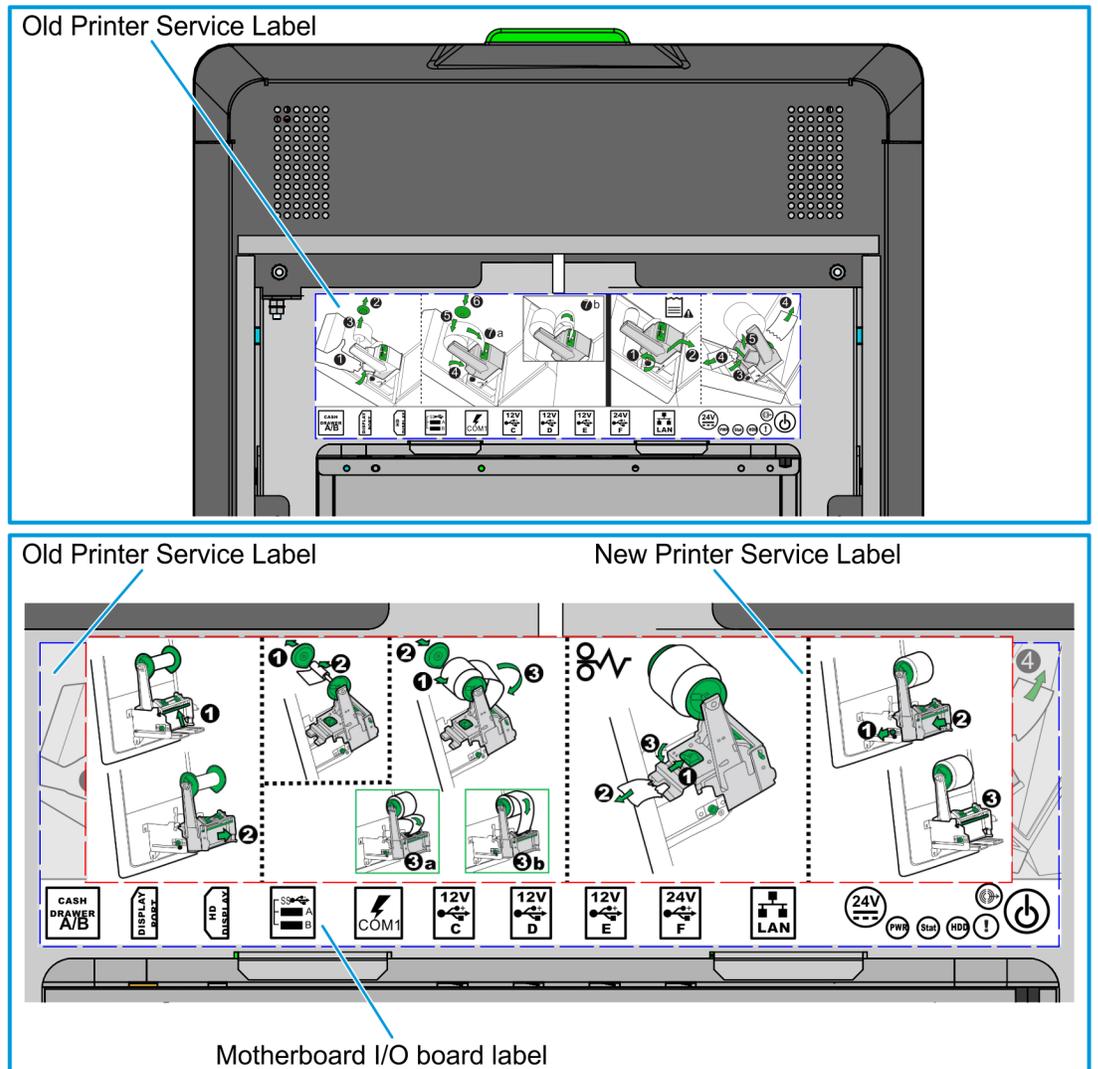


## Attaching the New Printer Service Label

- Place the new printer service label over the old printer service label.

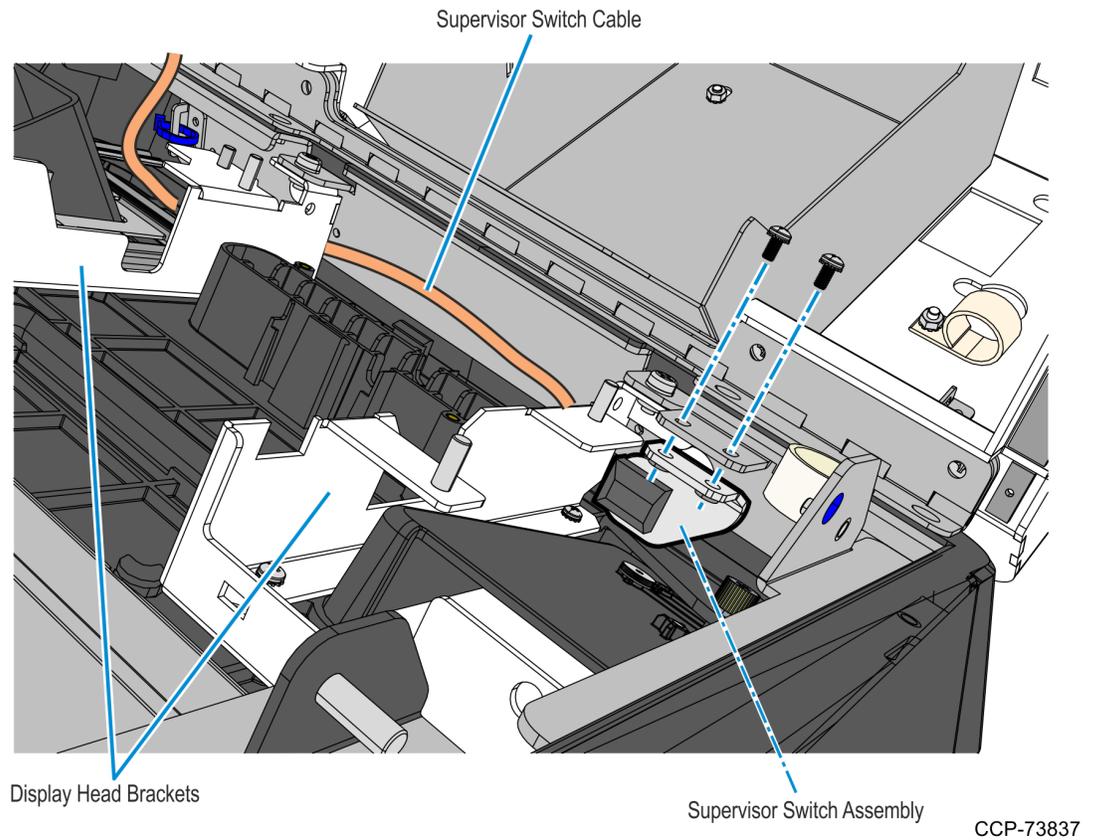


**Note:** Ensure that the Motherboard I/O board label is not covered.



## Removing the Supervisor Switch

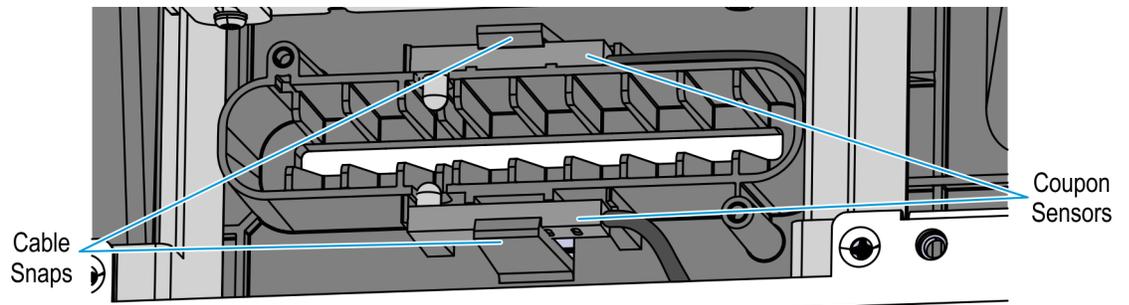
1. Remove the two M4 screws securing the Supervisor Switch assembly to the Display Head and route out the cable from under the two Display Head Brackets shown below.



2. Remove cable tie that secures the Supervisor Switch cable to the Display Head, and then temporarily place the Supervisor Switch assembly inside the main cabinet.

## Removing the Coupon Sensors

- Remove the Coupon Sensors from the Cable Snaps and route the cable out of the bracket.

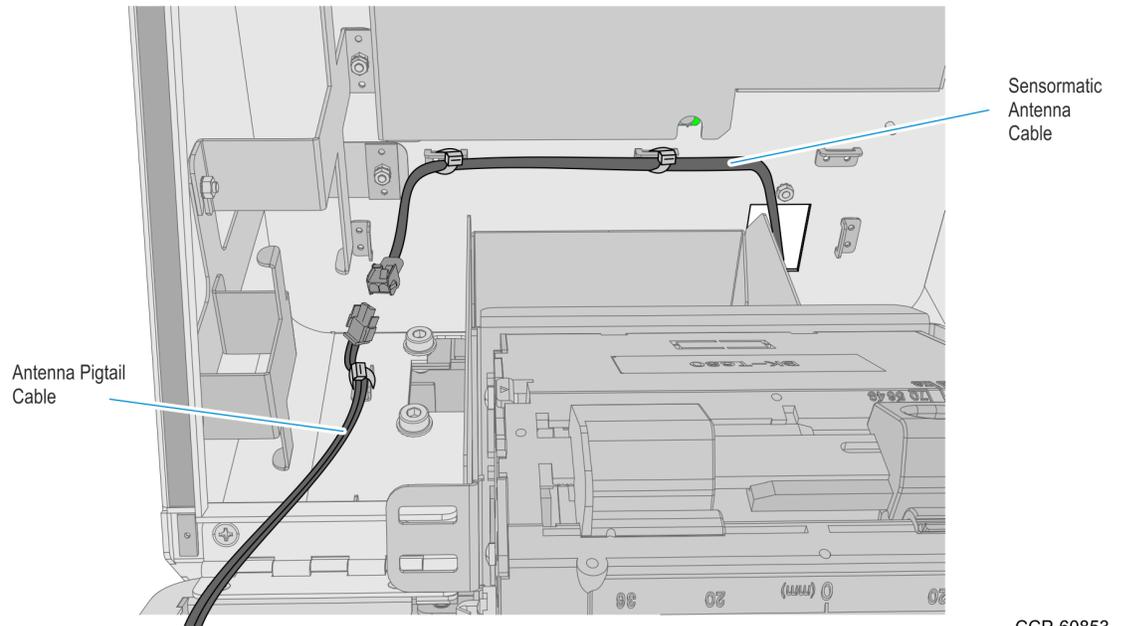


## Removing the Sensormatic Antenna

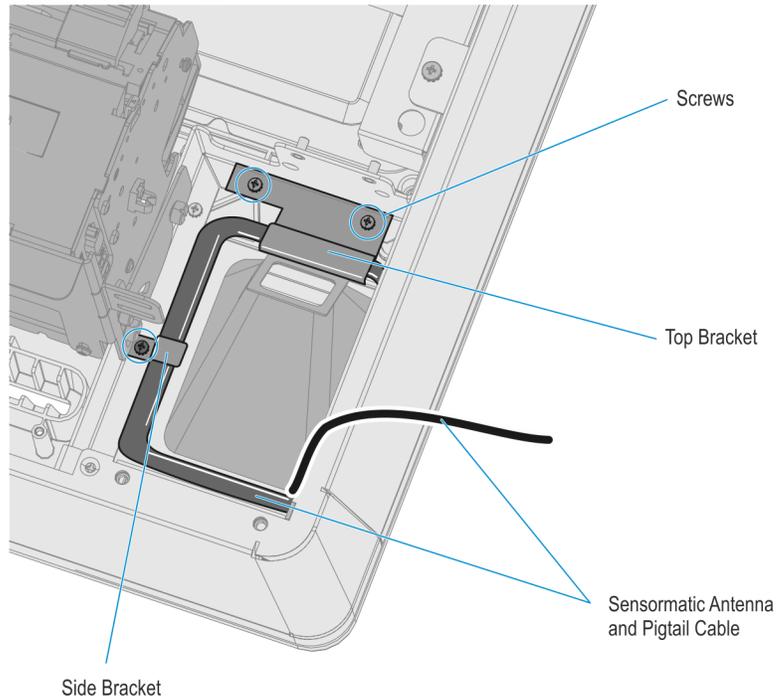


**Caution:** Make sure that the Sensormatic Controller is powered OFF. Do NOT connect or disconnect the Sensormatic Cables or Antenna from the Sensormatic Controller when power is ON as this could damage the controller.

1. Disconnect the Sensormatic Antenna Pigtail cable from the Antenna Cable.



2. Remove the top and side brackets securing the antenna to the Display Head.



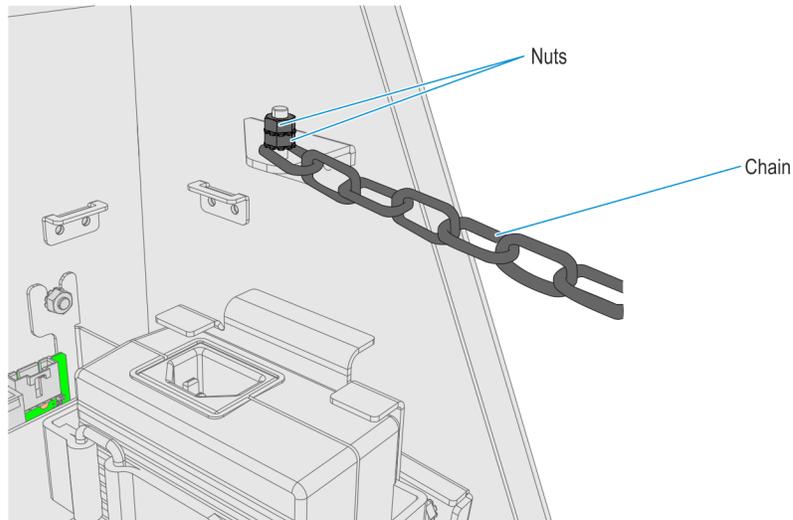
CCP-60832

3. Remove the antenna from the Display Head.

## Removing the Display Head

1. While supporting the Kiosk Display Head, remove the two nuts securing the Display Head Chain to the Kiosk cabinet and remove the chain from the stud.

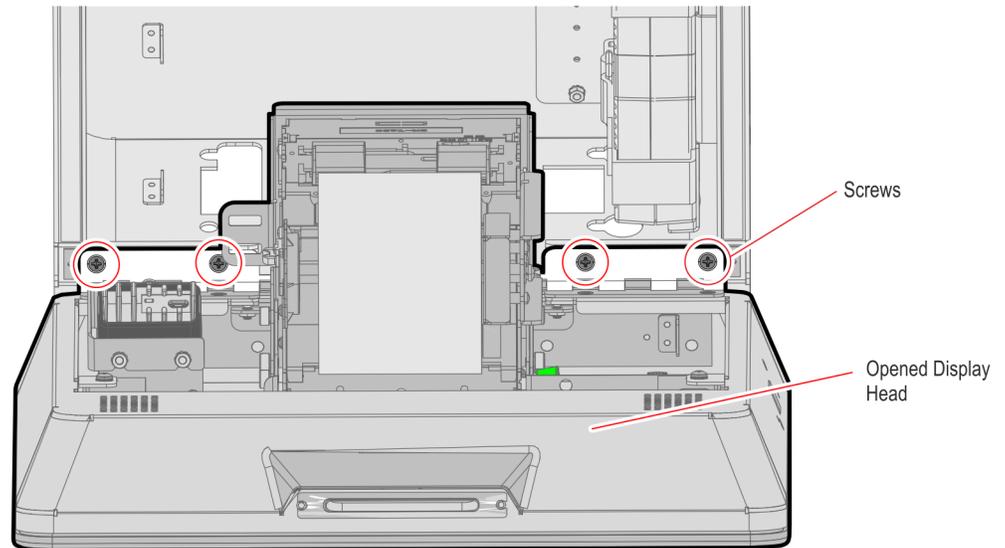
**⚠ Warning:** Make sure to properly support the display head so as not to accidentally drop it.



CCP-60828

2. While supporting the display head, remove the four screws that attach the hinge to the kiosk cabinet.

 **Warning:** Make sure to properly support the display head so as not to accidentally drop nor damage it.



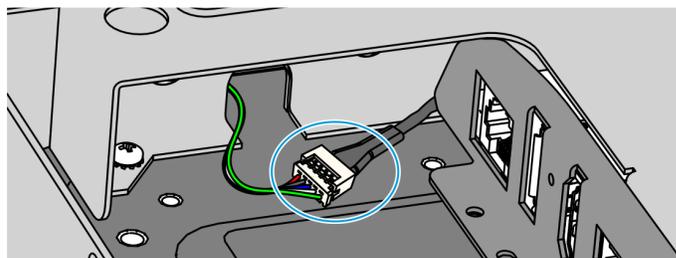
CCP-60824

3. Carefully place the front of the kiosk on a flat surface cushioned with bubble wrap or soft cloth.

 **Caution:** Be careful not to scratch nor damage the display.

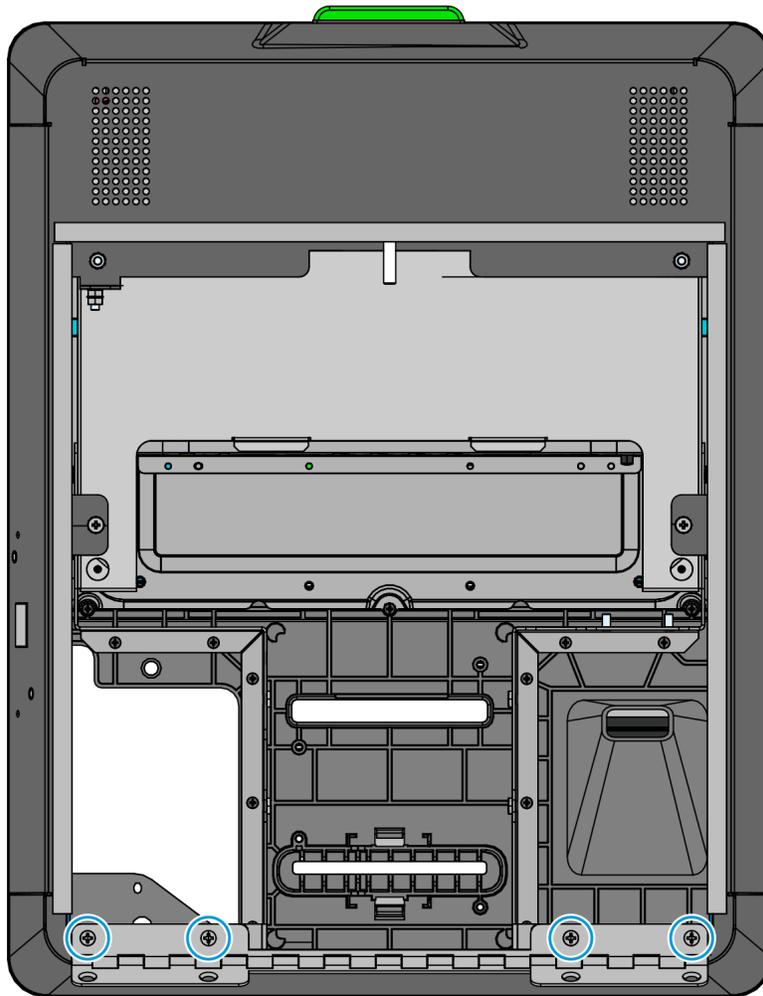
## Removing the Rear Cover

1. If the kiosk has an MSR, disconnect the MSR Cable from the MSR Extension Cable. These two cables are found under the Motherboard Bracket.



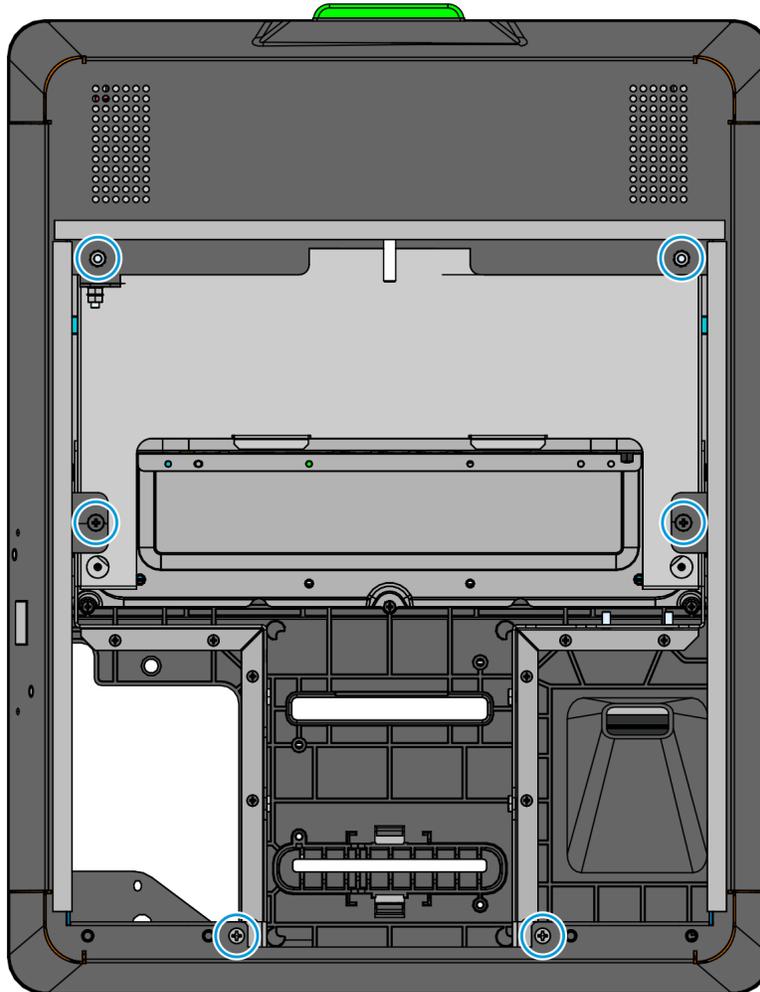
CCP-78472

2. Remove the four screws that secure the hinge to the Rear Cover.



CCP-78497

3. Remove the four screws and two nuts that secure the Rear Cover to the Display Head.

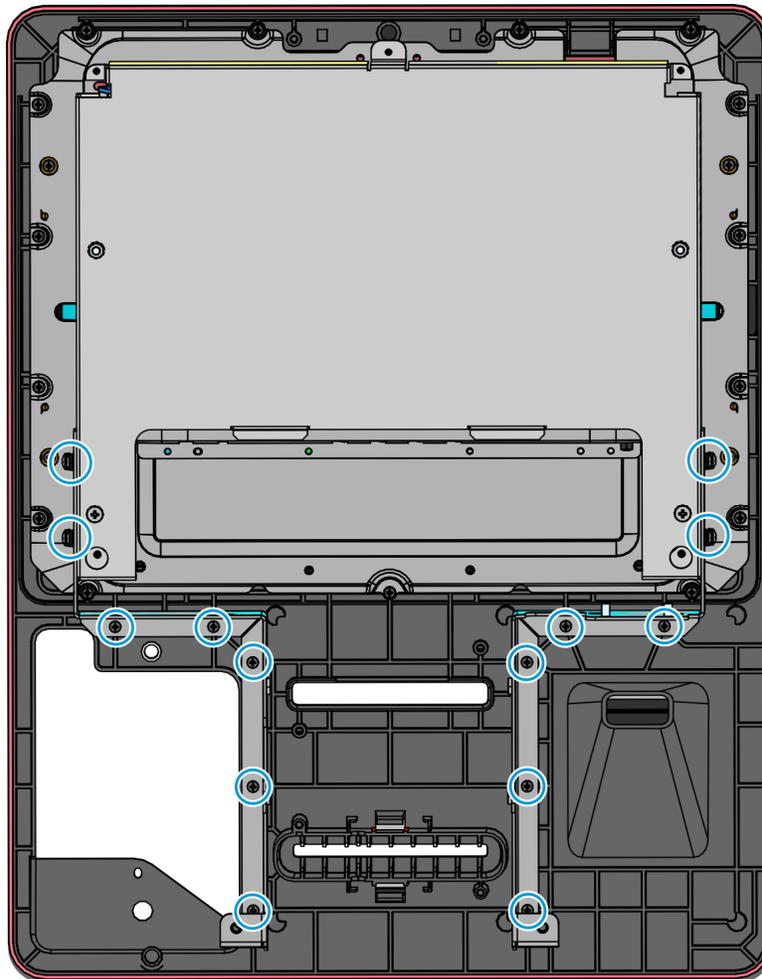


CCP-78496

4. Carefully lift off the Rear Cover from the Display Head.

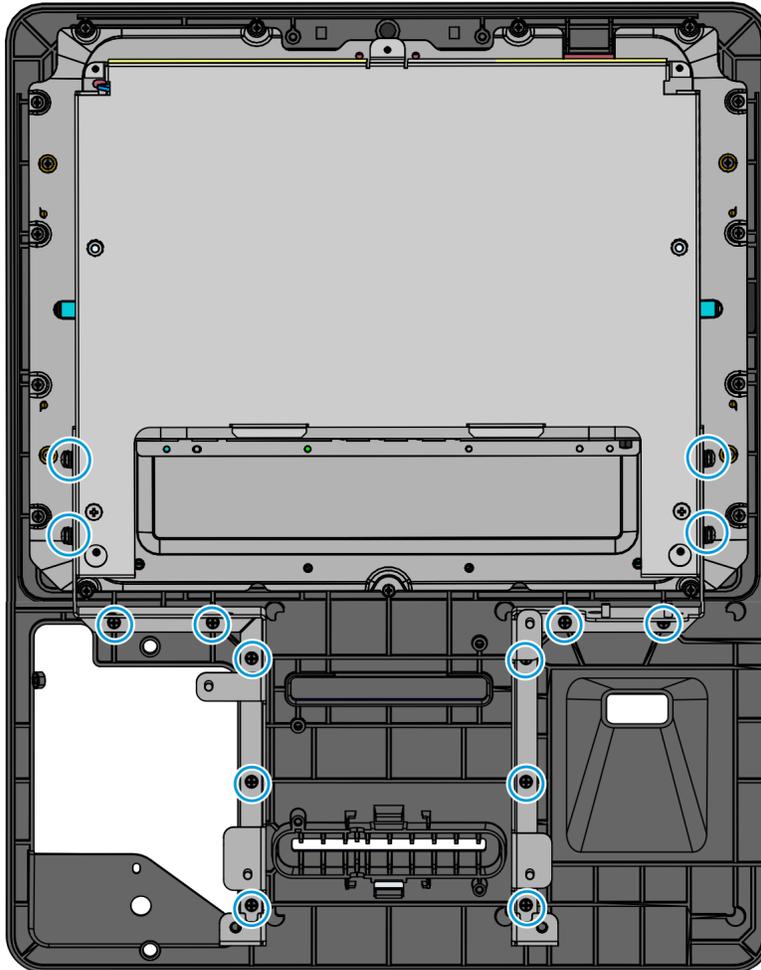
## Removing the Old Z-shaped Brackets

- Remove the fourteen screws that secure the left and right Z-shaped Brackets to the display head.



## Installing the New Z-shaped Brackets

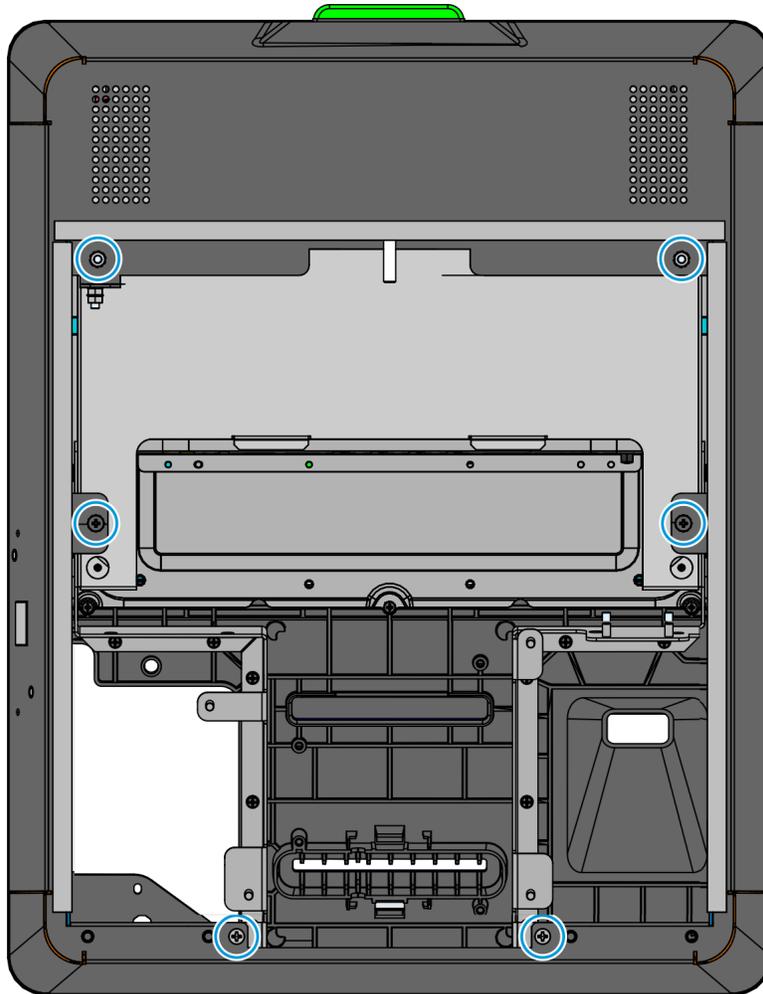
- Install the new Z-shaped Brackets and secure with the existing fourteen screws.



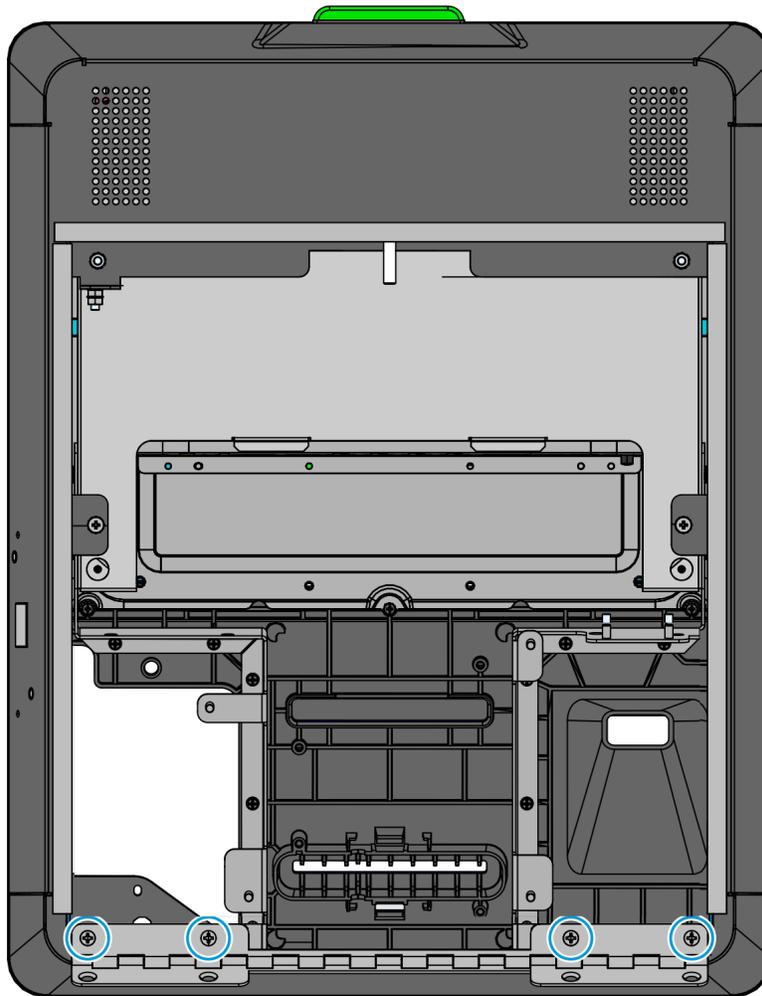
CCP-78493

## Installing the Rear Cover

1. Carefully lower the Rear Cover to the Display Head and secure it with four screws and two nuts.

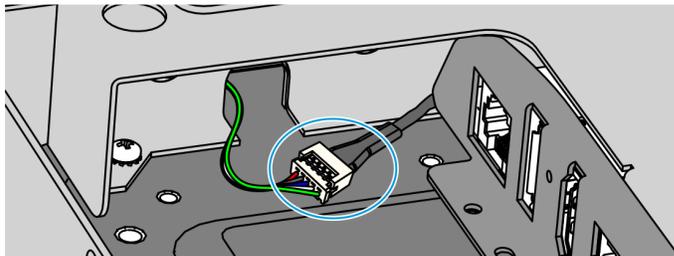


- Using the four screws, attach the hinge to the Rear Cover.



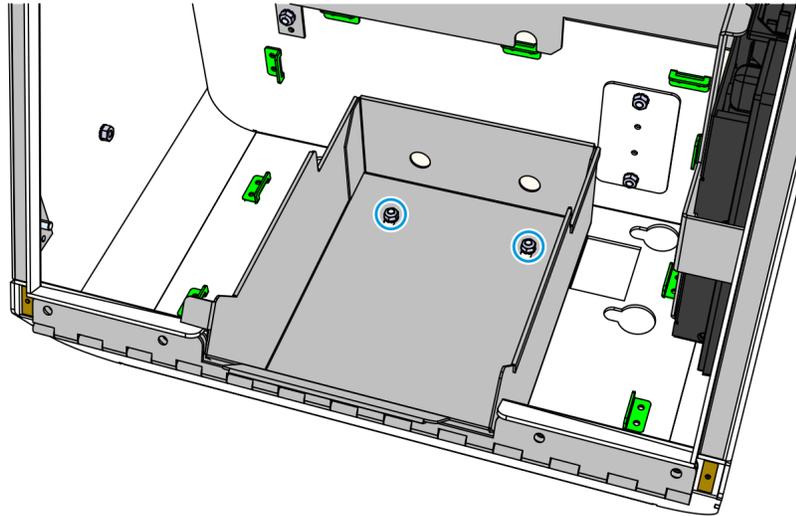
CCP-78470

- If the kiosk has an MSR, connect the MSR Cable to the MSR Extension Cable.



CCP-78472

## Replacing the Coupon Bin

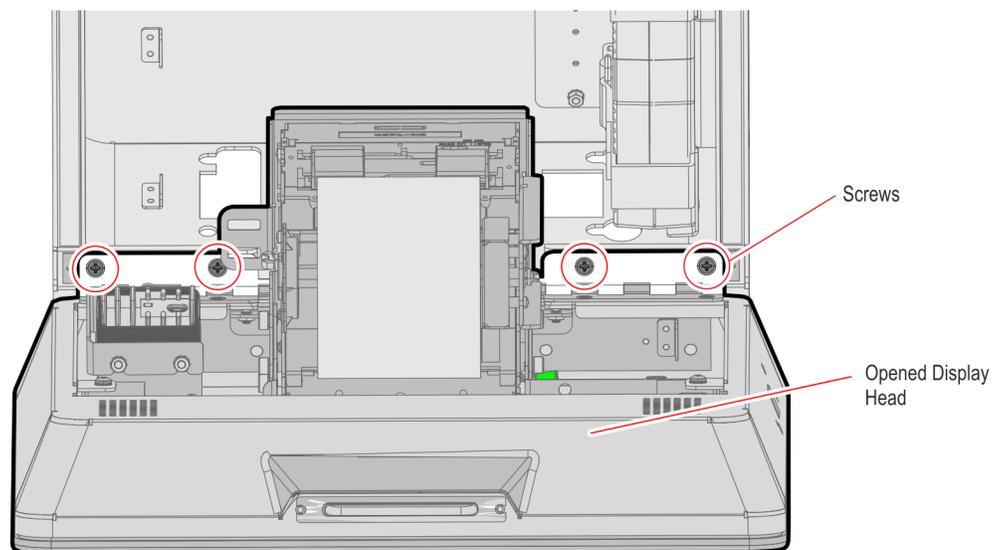


CCP-78478

1. Remove the old Coupon Bin from the cabinet by removing the two Hex nuts.
2. Install the R1.2 Coupon Bin and secure with the two Hex nuts.

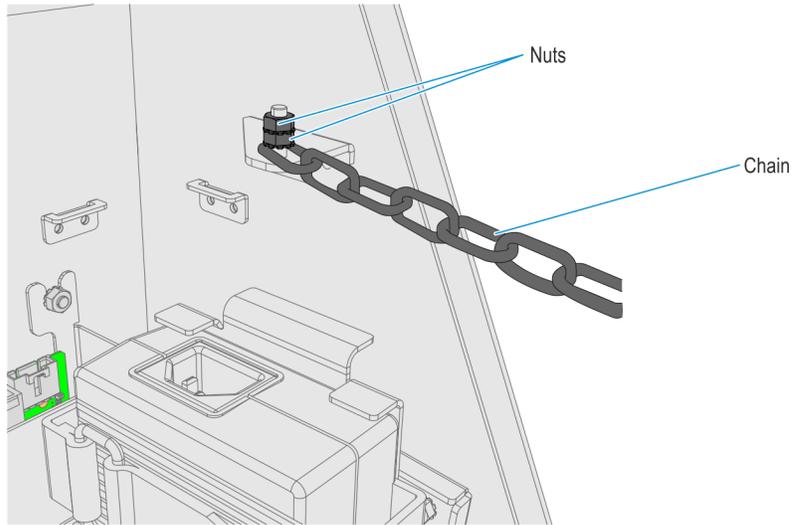
## Installing the Display Head

1. Position the display head against the bottom part of the cabinet.
2. Attach and secure the hinge to the cabinet with four screws..



CCP-60824

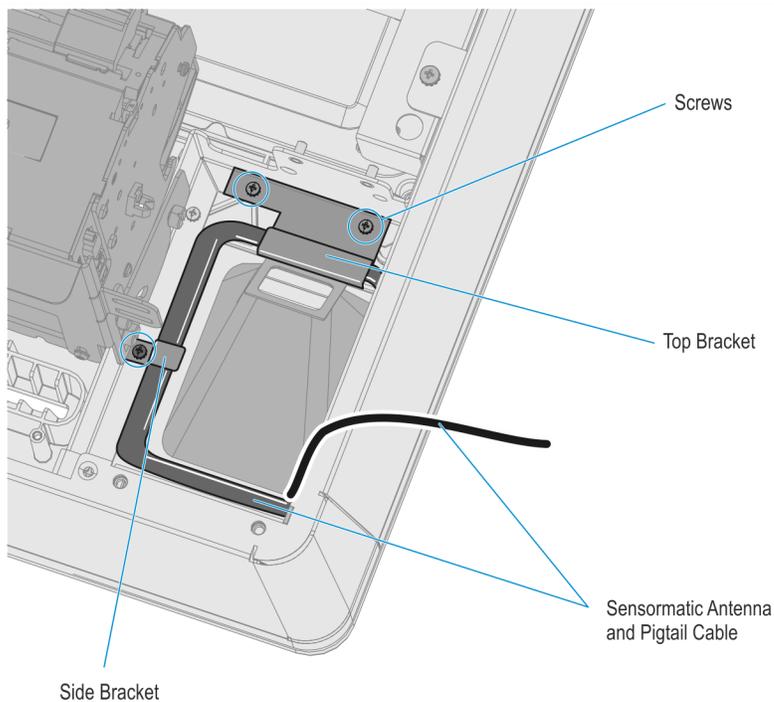
3. Attach the chain to the stud and secure with two nuts.



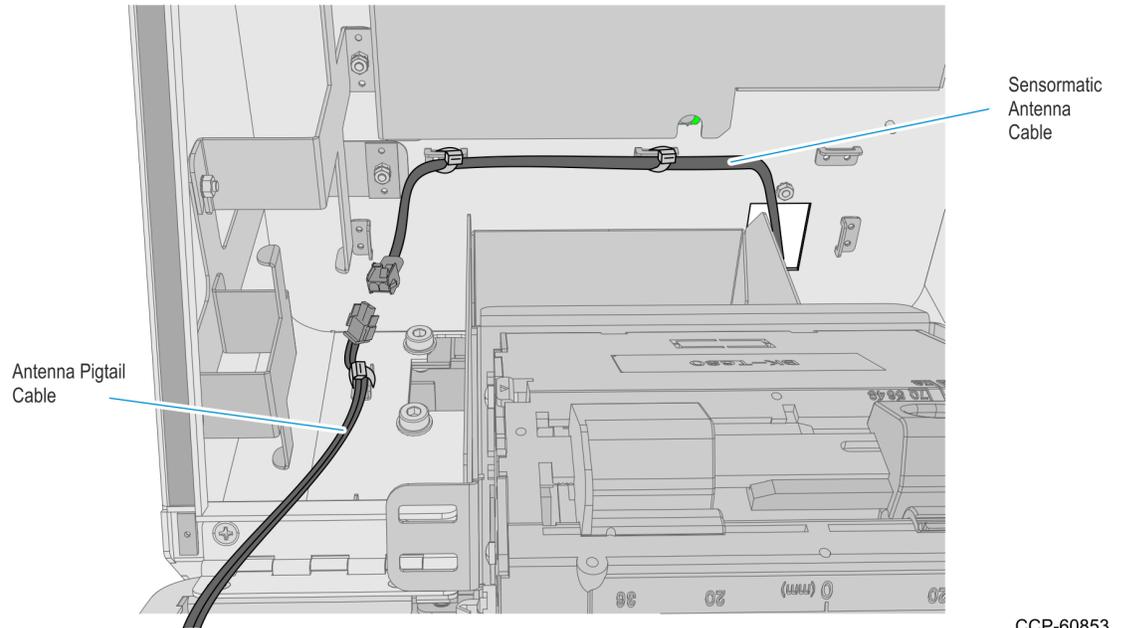
CCP-60828

## Installing the Sensormatic Antenna

1. Place the Sensormatic antenna over the imager funnel with its pigtail cable sticking out at the lower-right hand corner of the Display Head Assembly. Secure the antenna with the top and side brackets.

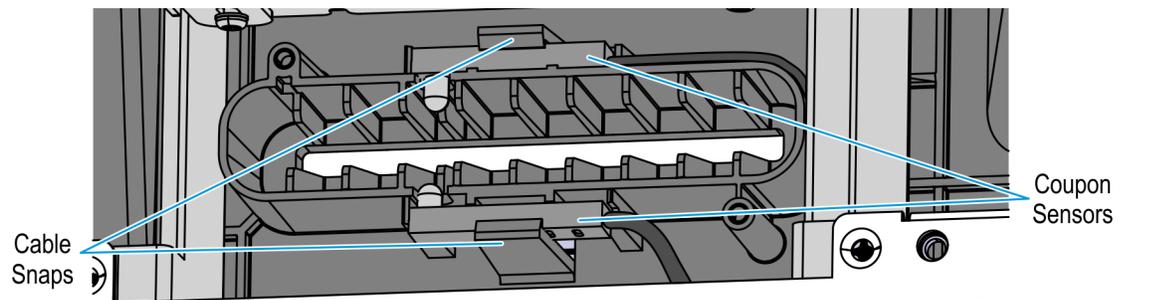


- Route the antenna Pigtail Cable into the cabinet at the space on the left-hand side of the coupon bin and plug the Pigtail Cable to the Sensormatic Antenna Cable. Cable tie the pig tail cable as shown below.



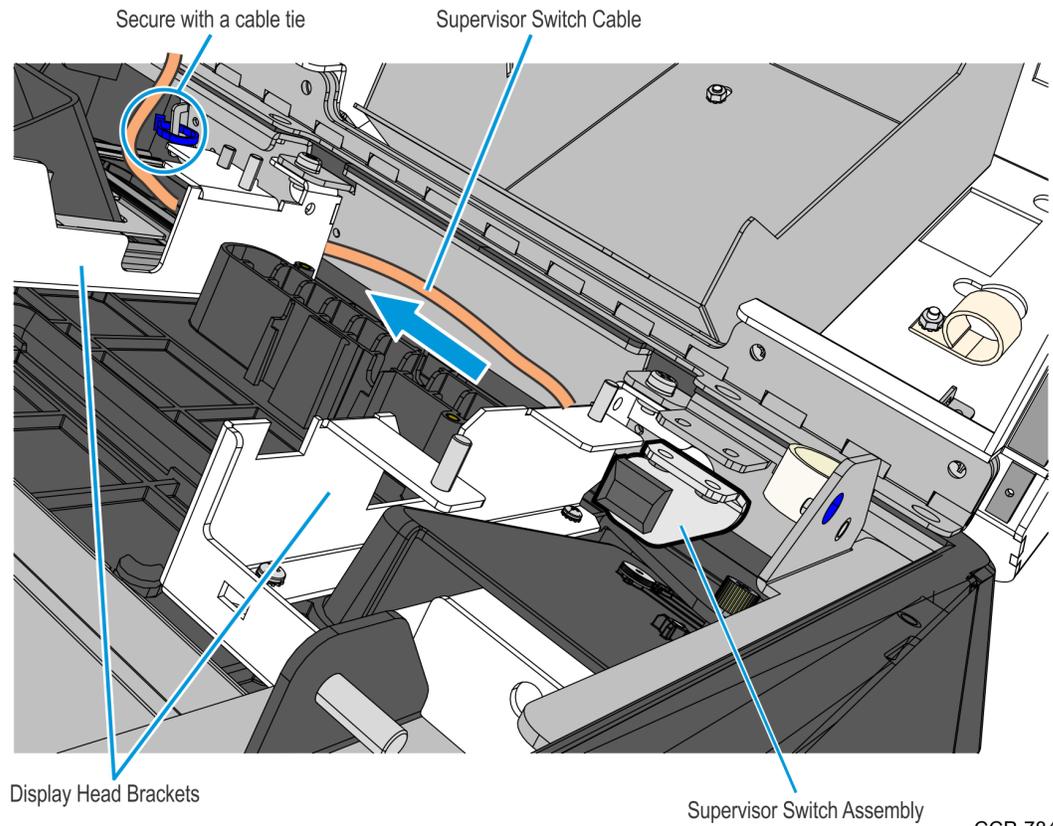
## Installing the Coupon Sensors

- Place the Coupon Sensors in the Cable Snaps.



## Installing the Supervisor Switch

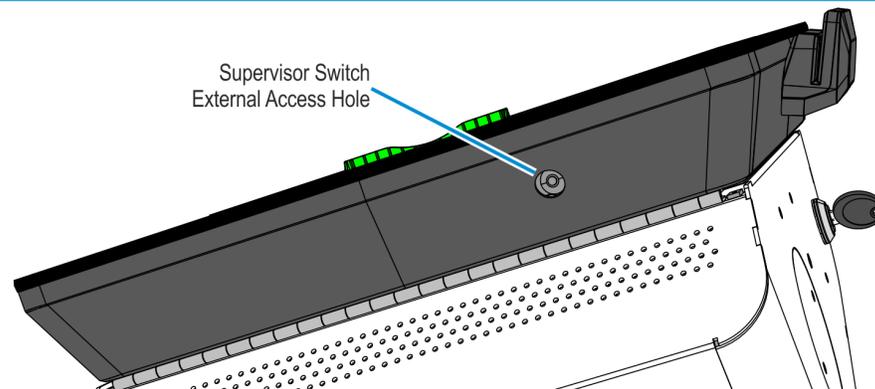
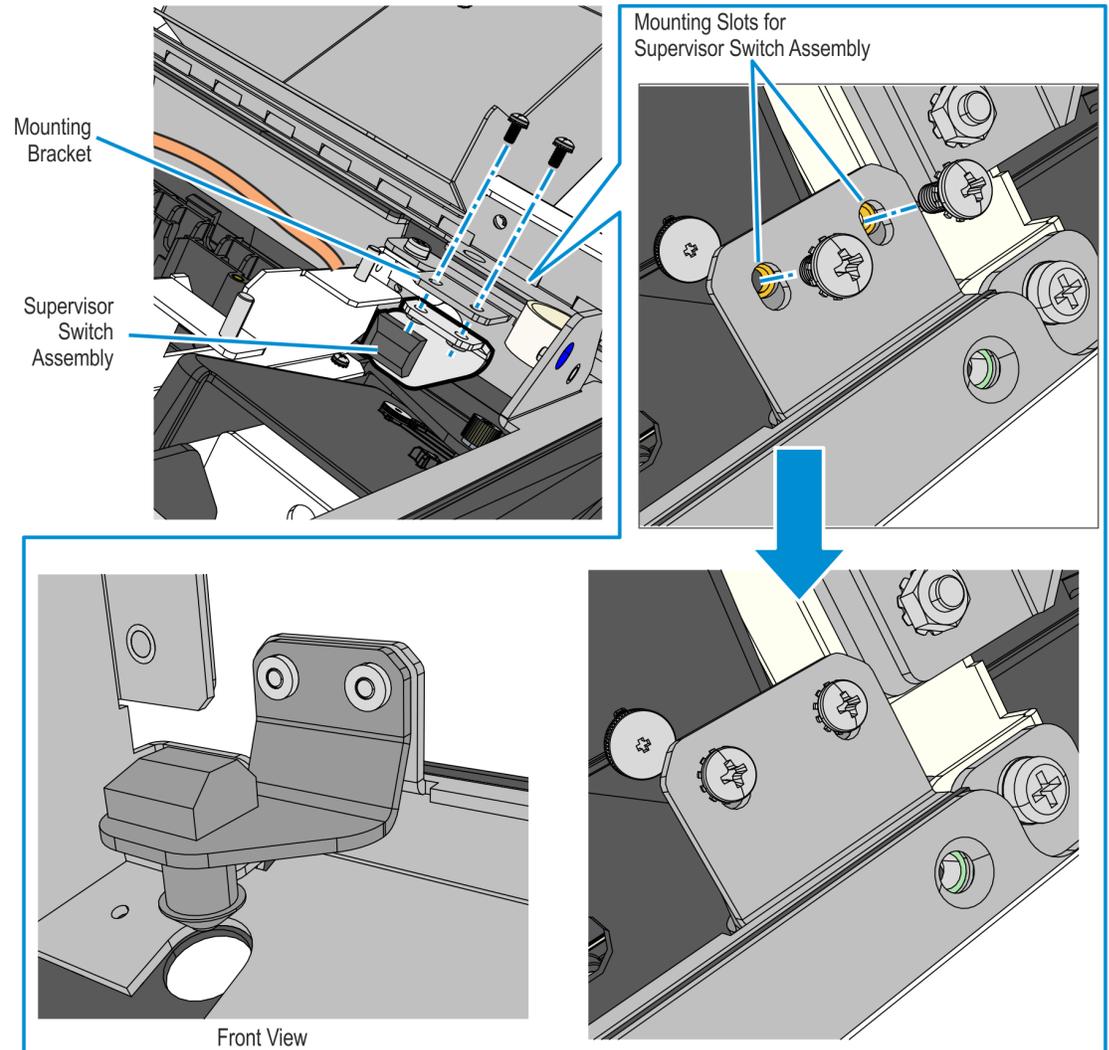
1. Route the Supervisor Cable from the PIN Pad side towards the Imager side, passing the cable under the two Display Head Brackets shown below. Using a cable tie, secure the Supervisor Switch cable to the Display Head.



2. Mount and secure the Supervisor Switch assembly to the Display Head using two screws.

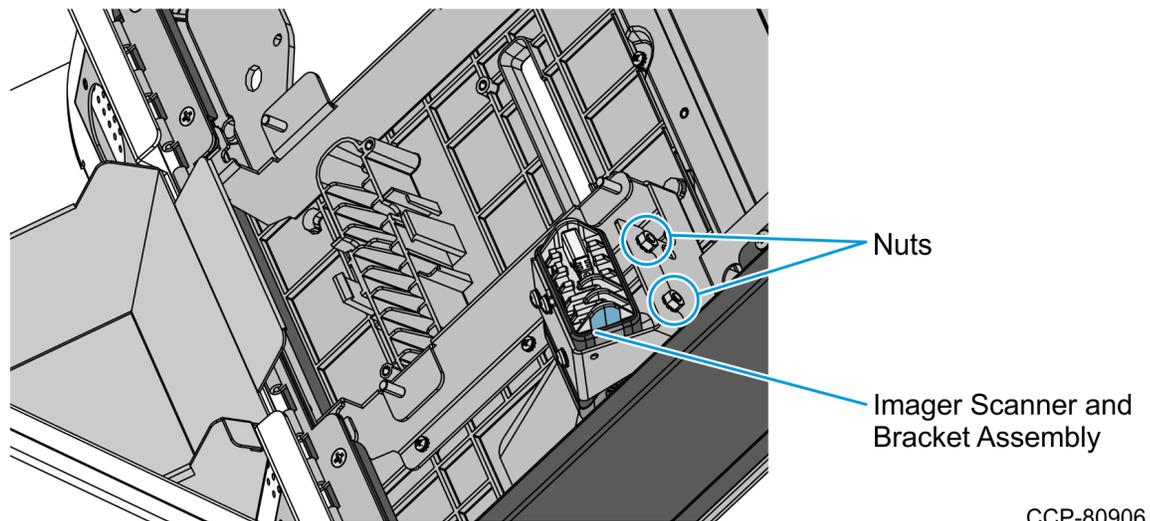
**! Important:** Make sure that the Supervisor assembly is mounted parallel with its mounting bracket and secured to the top side of the mounting slots.

This position provides the appropriate space for the assembly and properly aligns the Supervisor Switch to its external access hole.



## Installing the Imaging Scanner

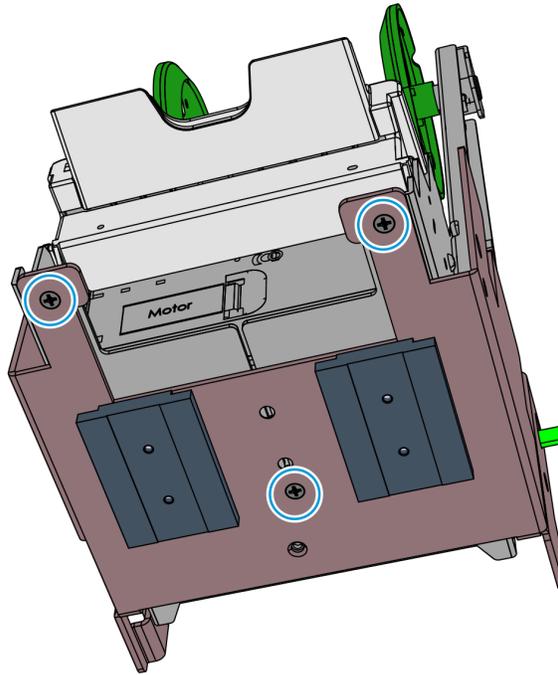
- Mount the Imaging Scanner Assembly to the two studs and secure with two nuts.



CCP-80906

## Installing the Receipt Printer

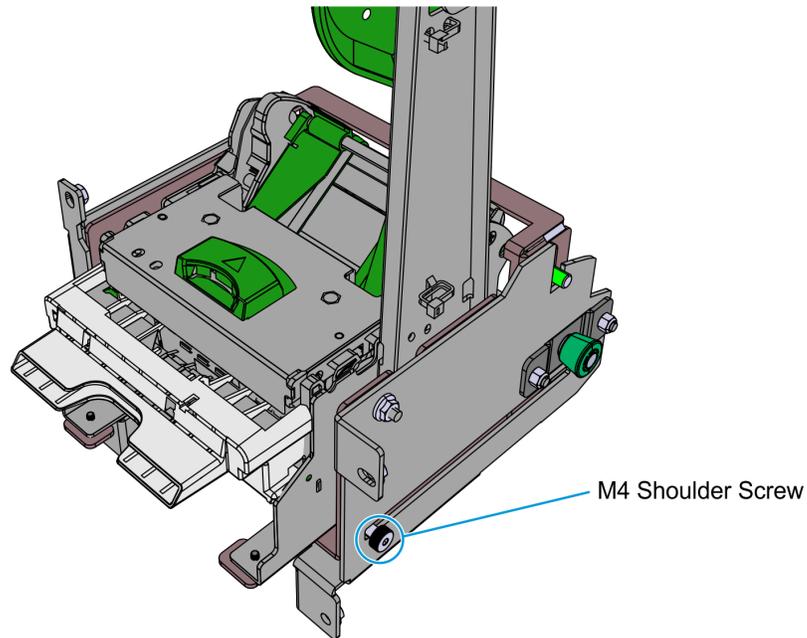
1. Install the Doune Receipt Printer on its tray.



CCP-78740

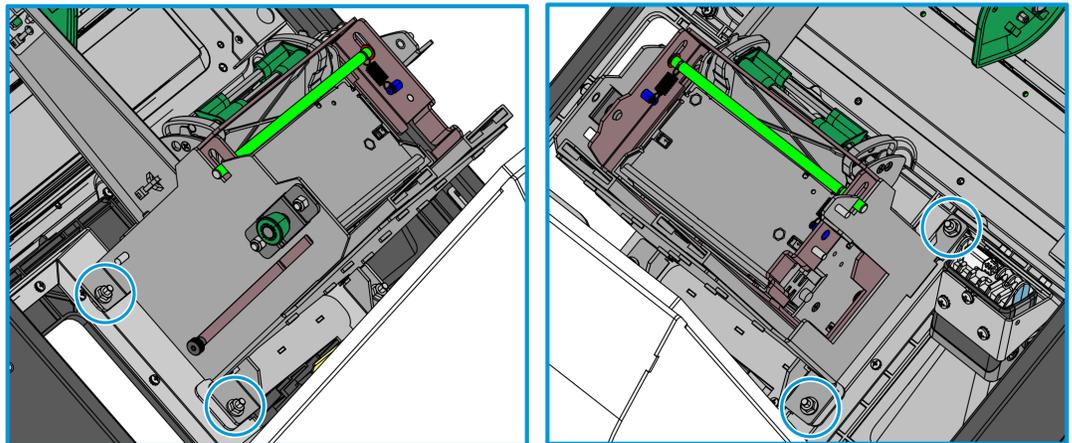
- a. Remove the Printer Tray from the Printer Bracket.
- b. Mount the Doune Receipt Printer onto the tray and secure with three M3X6 flat head screws.

2. Install the Printer Assembly on the Printer Bracket.
  - With the Printer Tray in closed position, install the M4 shoulder screw to secure the Printer Assembly to the Printer Bracket.



CCP-78742

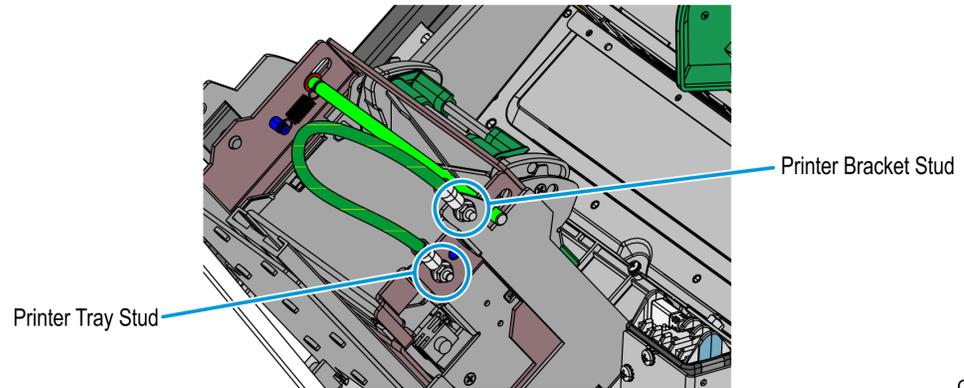
3. Mount the printer assembly onto its four mounting studs on the Z-bracket, and secure it with four M4 nuts.



CCP-80901

4. Install the 6-inch Ground Cable.

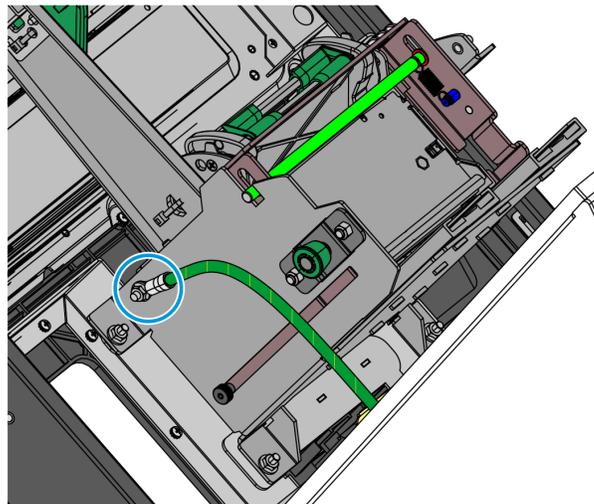
- Using two M4 serrated nuts, connect one end of the 6-inch Ground Cable to the stud on the Printer Bracket and the other end to the stud on the Printer Tray.



CCP-80902

5. Install the 12-inch Ground Cable.

- a. Using an M4 serrated nut, connect one end of the 12-inch Ground Cable to the mounting stud on the Printer Bracket.

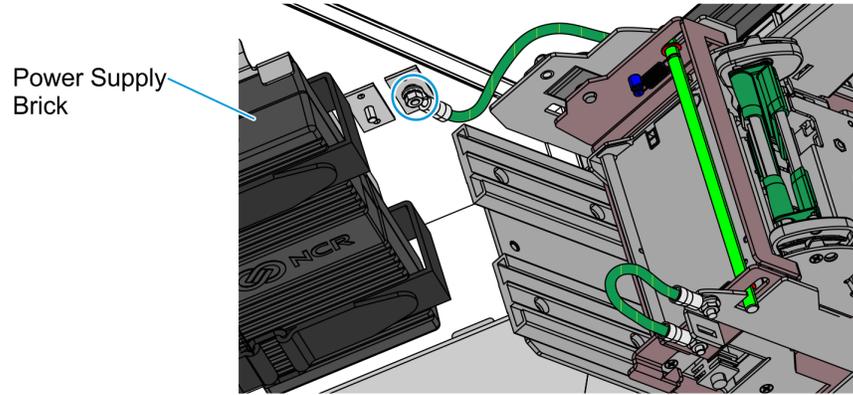


CCP-80903

- b. Secure the other end of the 12-inch Ground Cable to the metal stud on the inner right wall of the bucket, beside the Power Supply Brick.



**Note:** There may be other ground cables attached to the same metal stud.

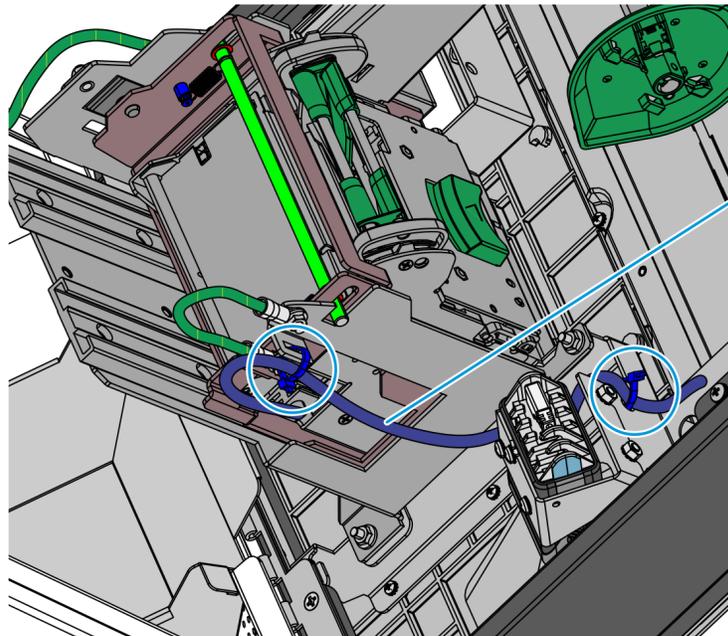


CCP-80904

- 6. Connect the Printer USB Power Cable to the printer, and use cable ties to secure it to the metal brackets indicated in the image.



**Note:** There should be enough slack to allow the Printer Tray to slide upward.



CCP-80905

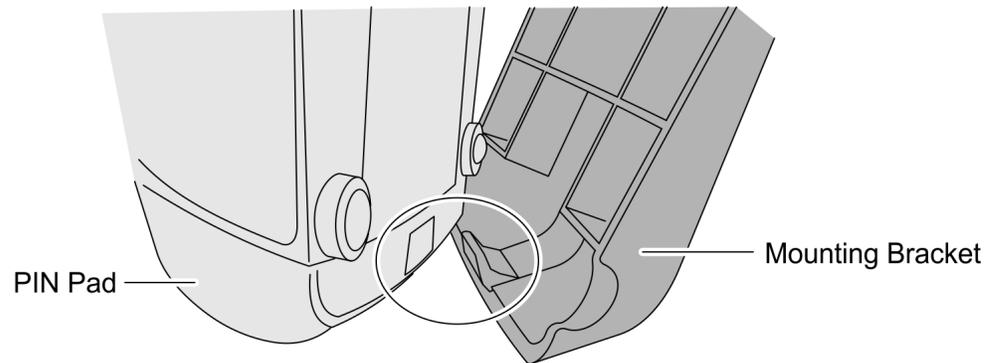
## Installing the PIN Pad

Refer to the following sections for procedures in installing the PIN Pad to **NCR 7709 R1.0/1.1** units:

- [Installing the Ingenico IPP320/350 PIN Pad](#) below
- [Installing the Verifone VX805/820 PIN Pad](#) on the facing page

### Installing the Ingenico IPP320/350 PIN Pad

1. Position the Mounting Bracket onto the screws, and then tighten the screws.
2. Connect the PIN Pad Cable to the PIN Pad.
3. Mount the PIN Pad to the Mounting Bracket by aligning the slot on the lower back of the PIN Pad with the small tab on the lower portion of the Mounting Bracket.

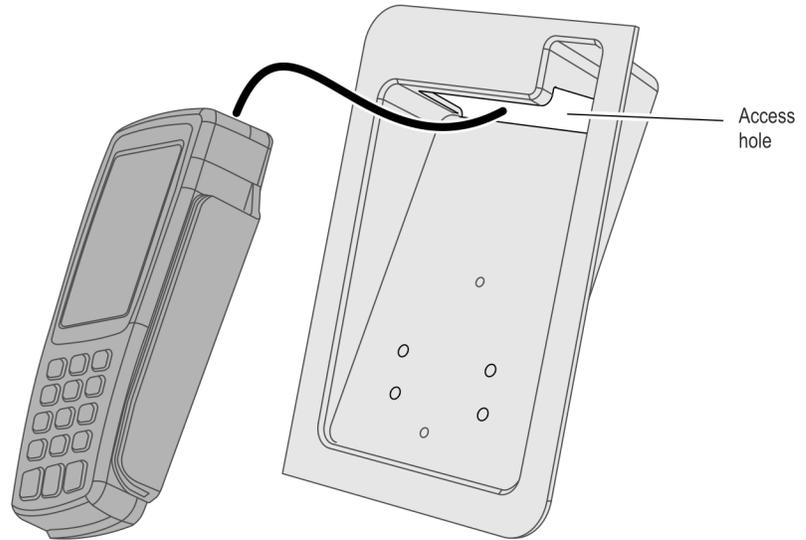


CCP-60071

4. Push the PIN Pad until it snaps to the upper portion of the Mounting Bracket.

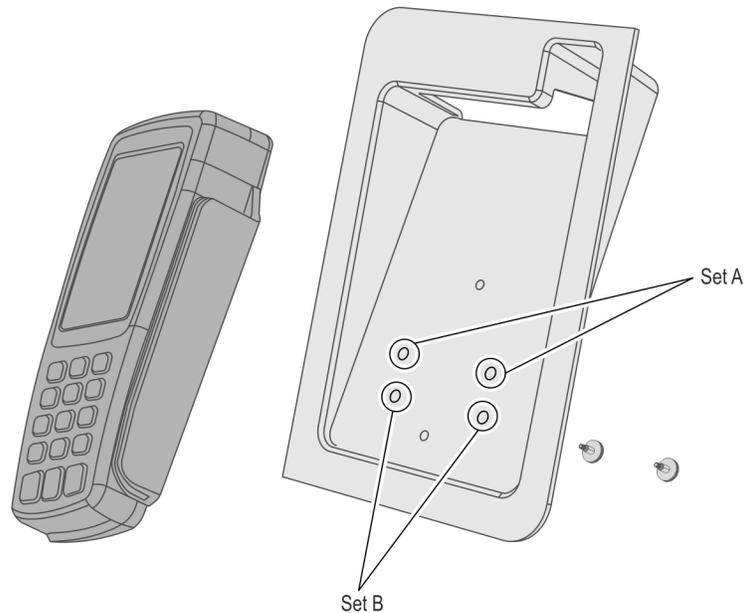
## Installing the Verifone VX805/820 PIN Pad

1. Connect the PIN Pad Cable to the PIN pad and route the cable through the access hole on the PIN Pad cradle.



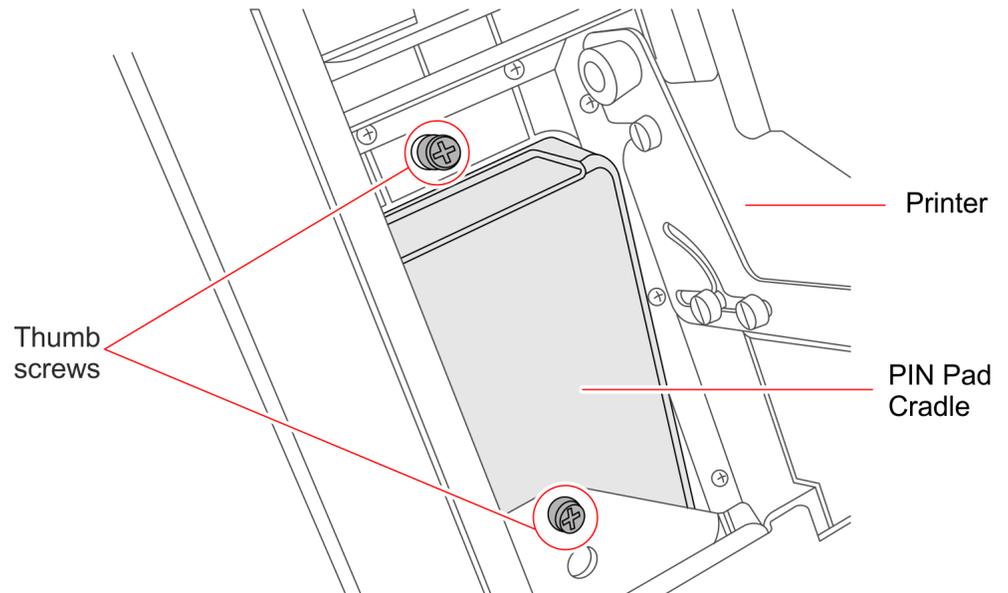
CCP-61344

2. Align the PIN pad mounting holes to the appropriate mounting holes set on the PIN pad cradle as shown below and secure the PIN Pad with two screws.
  - Use Set A mounting holes for VX 805 PIN pad.
  - Use Set B mounting holes for VX820 PIN pad



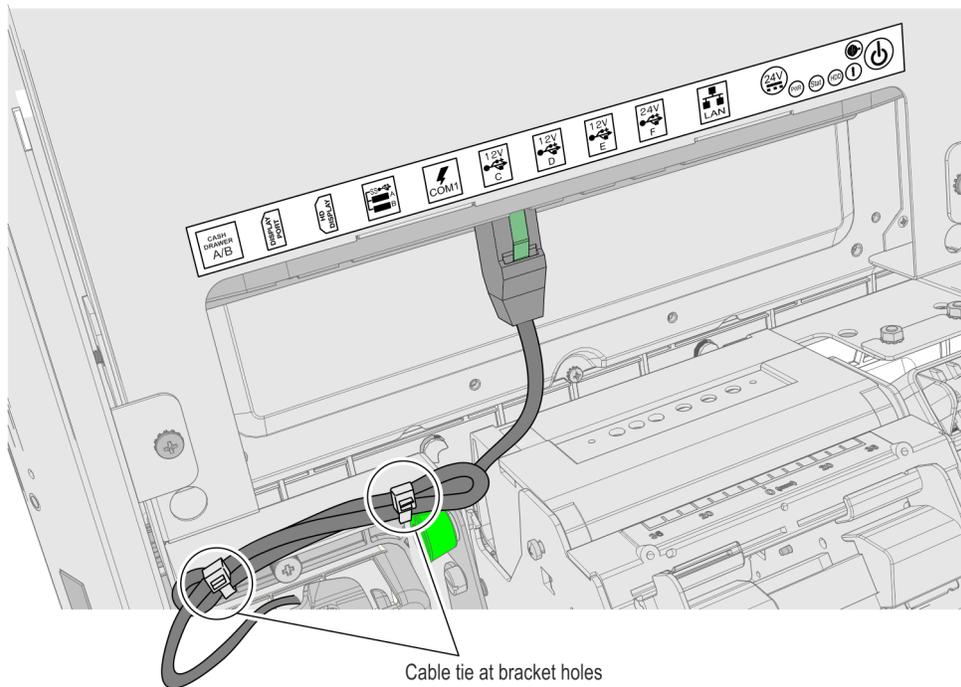
CCP-61346

3. Mount the PIN Pad and Cradle Assembly on the Display head and secure with two thumbscrews.



CCP-60091

4. Connect the PIN Pad Cable to the PIN Pad. Cable tie the extra length of the cable as shown below.

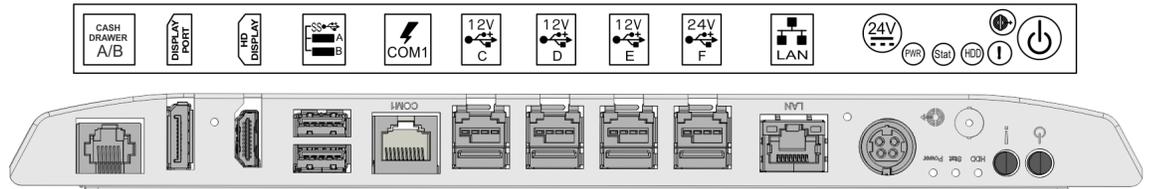


CCP-61345

## Connecting Cables

The NCR SelfServ™ 90 (7709) Kiosk provides labels that show the connectors of the Motherboard and the Adapter. The tables below indicate the type of device or of cable for each connector.

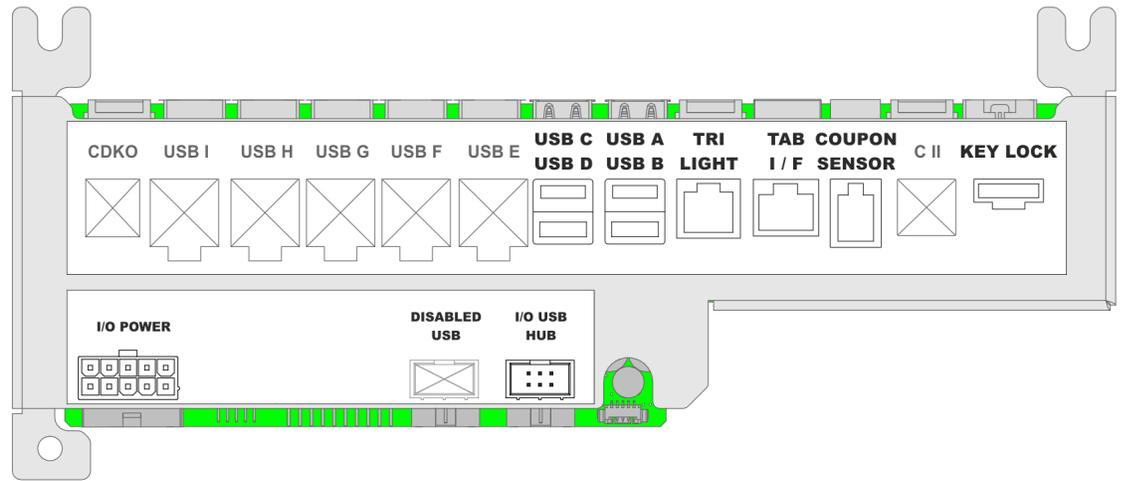
### I/O Motherboard



CCP-61343

Connector	Device/Cable
COM 1	Ingenico IPP350 PIN Pad
LAN	LAN Ethernet Cable
24V	Power Supply Cable
Line Out	Dual Speaker
USB A	Sensormatic Controller
USB B	Imaging Scanner
USB C	Verifone VX805, VX820, or MX915 PIN Pad
USB D	Security Scale
USB E	I/O Adapter
USB F	Receipt Printer

## I/O Adapter



CCP-61349

Connector	Device/Cable
USB A	Handheld Scanner
Tri Light	Indicator Light
TAB I/F	Checkpoint Signal Cable
Coupon Sensor	Coupon Sensor Cable
I/O Power	P2 of the I/O Cable
I/O USB Hub	P3 of the I/O Cable