KIT INSTRUCTIONS

Integration Tray

7606-K300/K301/K303

Issue C

Revision Record

Issue	Date	Remarks
A	May 2012	First Issue
B	Jun 2014	Added Series II Printer
C	Jul 2014	Added black cabinetry

RealPOS 82*XRT* Integration Tray Kit Instructions

Introduction

The Integration Tray kit provides the necessary components for integrating the displays, printers, and cash drawer with the RealPOS 80XRT terminal. There are two versions of the kit:

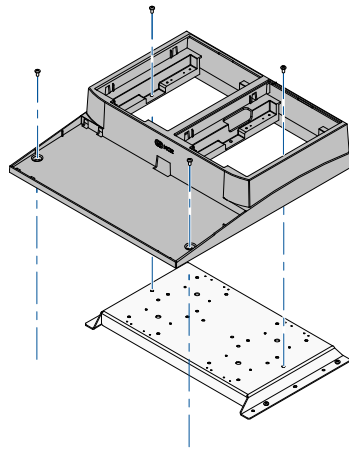- 7606-K300 - Beige
- 7606-K301 - Charcoal
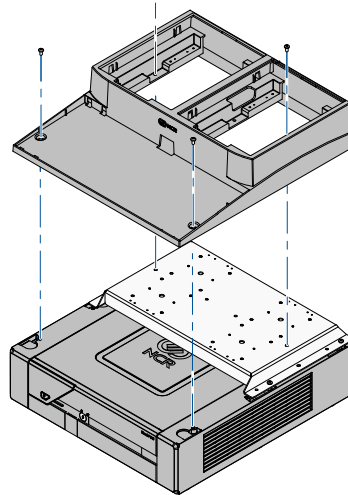- 7606-K303 - Black

Note: If the 7606-K301 kit is being used to convert a beige terminal to charcoal then you also need the 7606-K306 Charcoal Front Bezel kit.

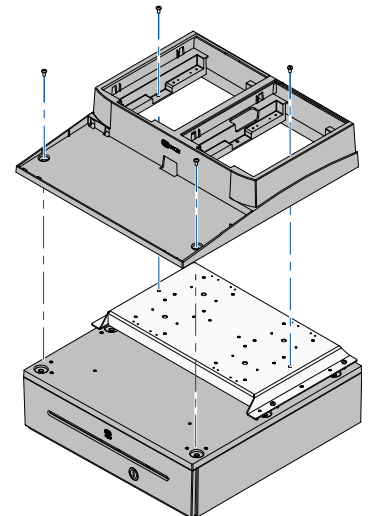The Integration Tray can be mounted on a table top, on the terminal, or on the cash drawer.

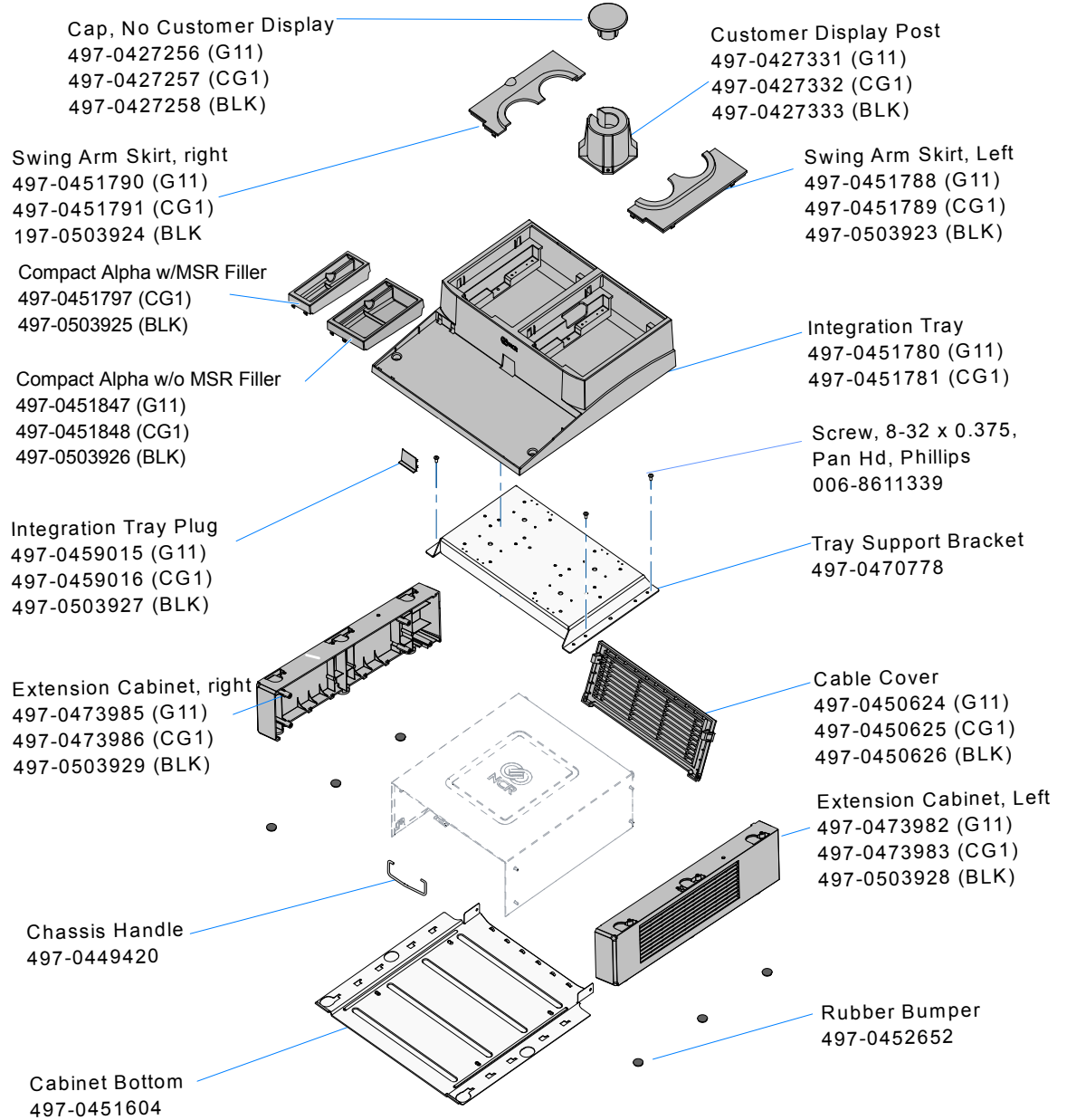## Mounting Options

Mounted on Table-Top   Mounted on Terminal   Mounted on Cash Drawer

31263

Kit Contents

Cap, No Customer Display
497-0427256 (G11)
497-0427257 (CG1)
497-0427258 (BLK)

Customer Display Post
497-0427331 (G11)
497-0427332 (CG1)
497-0427333 (BLK)

Swing Arm Skirt, right
497-0451790 (G11)
497-0451791 (CG1)
197-0503924 (BLK

Swing Arm Skirt, Left
497-0451788 (G11)
497-0451789 (CG1)
497-0503923 (BLK)

Compact Alpha w/MSR Filler
497-0451797 (CG1)
497-0503925 (BLK)

Integration Tray
497-0451780 (G11)
497-0451781 (CG1)

Compact Alpha w/o MSR Filler
497-0451847 (G11)
497-0451848 (CG1)
497-0503926 (BLK)

Screw, 8-32 x 0.375,
Pan Hd, Phillips
006-8611339

Integration Tray Plug
497-0459015 (G11)
497-0459016 (CG1)
497-0503927 (BLK)

Tray Support Bracket
497-0470778

Extension Cabinet, right
497-0473985 (G11)
497-0473986 (CG1)
497-0503929 (BLK)

Cable Cover
497-0450624 (G11)
497-0450625 (CG1)
497-0450626 (BLK)

Extension Cabinet, Left
497-0473982 (G11)
497-0473983 (CG1)
497-0503928 (BLK)

Chassis Handle
497-0449420

Rubber Bumper
497-0452652

Cabinet Bottom
497-0451604

31245
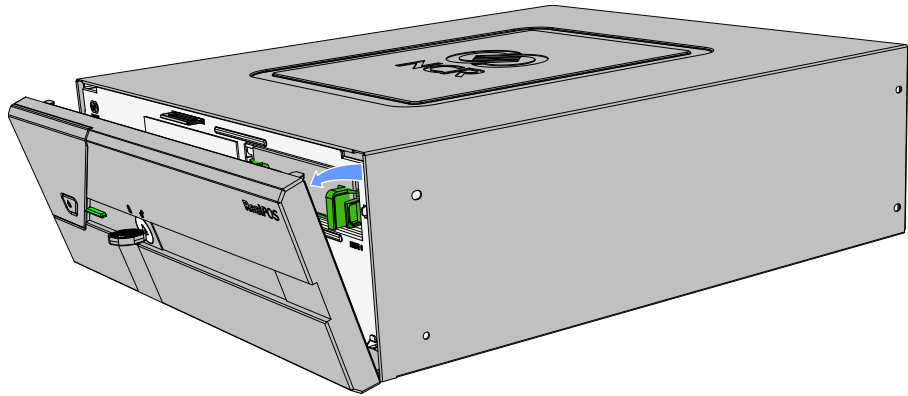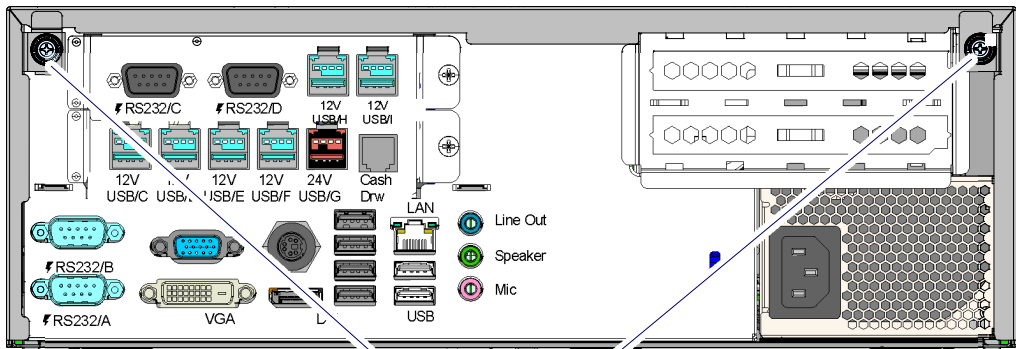
Installation Procedures

Removing the Cabinet

1. Disconnect all cables from the back of the terminal.

2. Remove the Bezel.

   a. Turn the Keylock to the unlocked position.

   b. Pull the top edge of the Bezel away from the chassis and remove the cover.
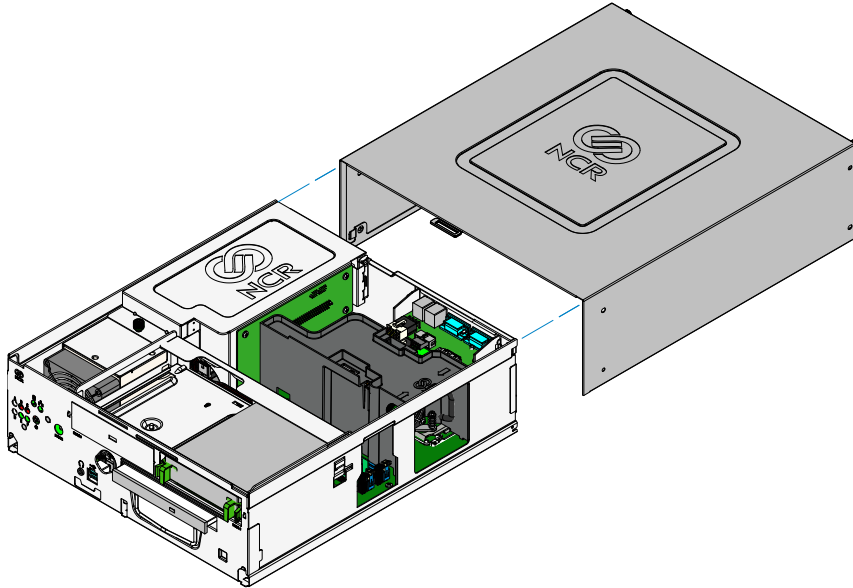

30629

3. Loosen the thumbscrews (2) that secure the Top Cover.


Thumbscrews

30634

4. Slide the Top Cover toward the rear of the terminal to remove it.

31260

Assembling the Integration Components

1. Lay the Top Cover on a flat work surface upside down.

2. Attach the Right and Left Cabinet Extensions (4 screws each @ 8 lbf). There is one screw hole on each side with close tolerances. Install these screws first. Install the second screw per the illustration below.

First screw to be installed (per each side)
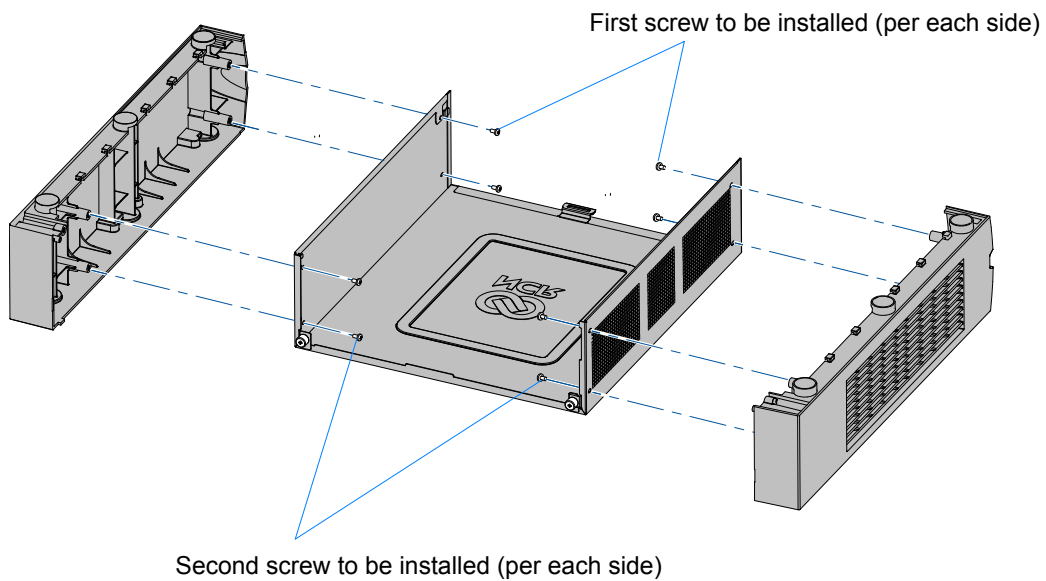
Second screw to be installed (per each side)   24615
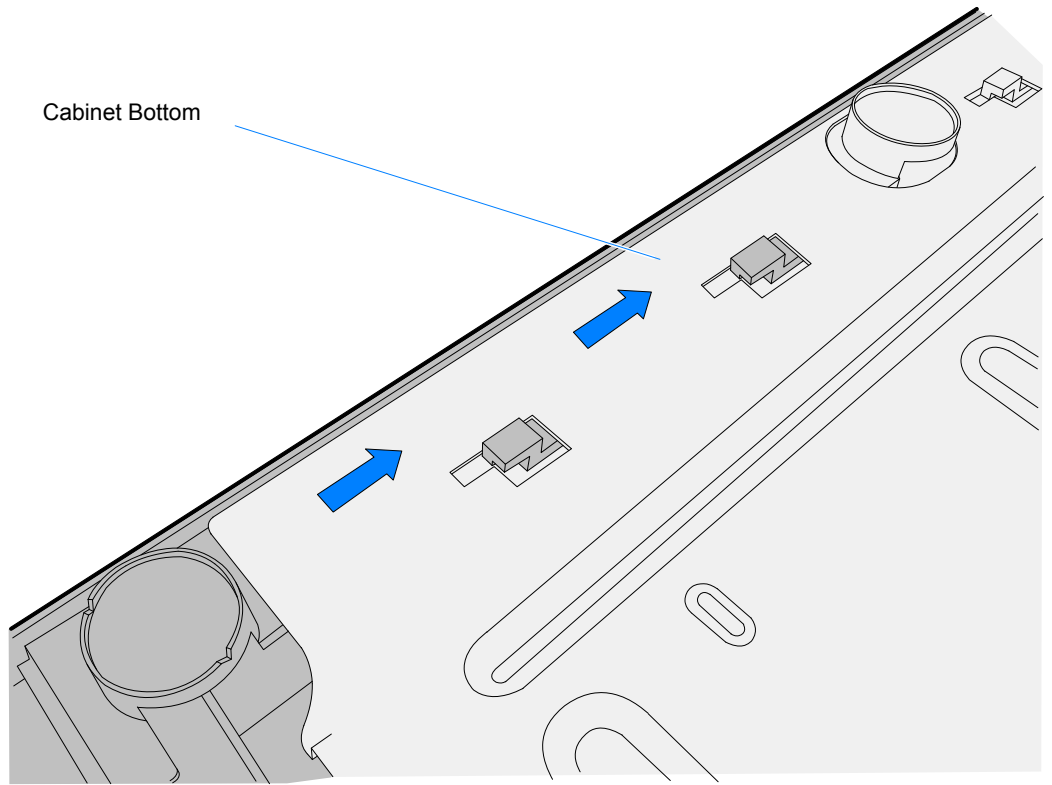
3. Attach the Cabinet Bottom.

   a. Positions the Cabinet Bottom over the Cabinet Feet and align the slots (10) in the Cabinet Bottom with the hooks on the Cabinet Extensions.
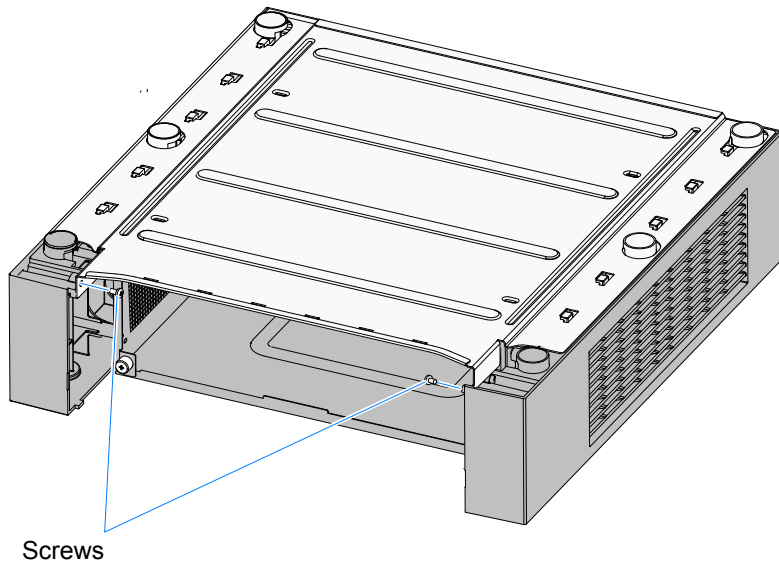
Cabinet Bottom

24618
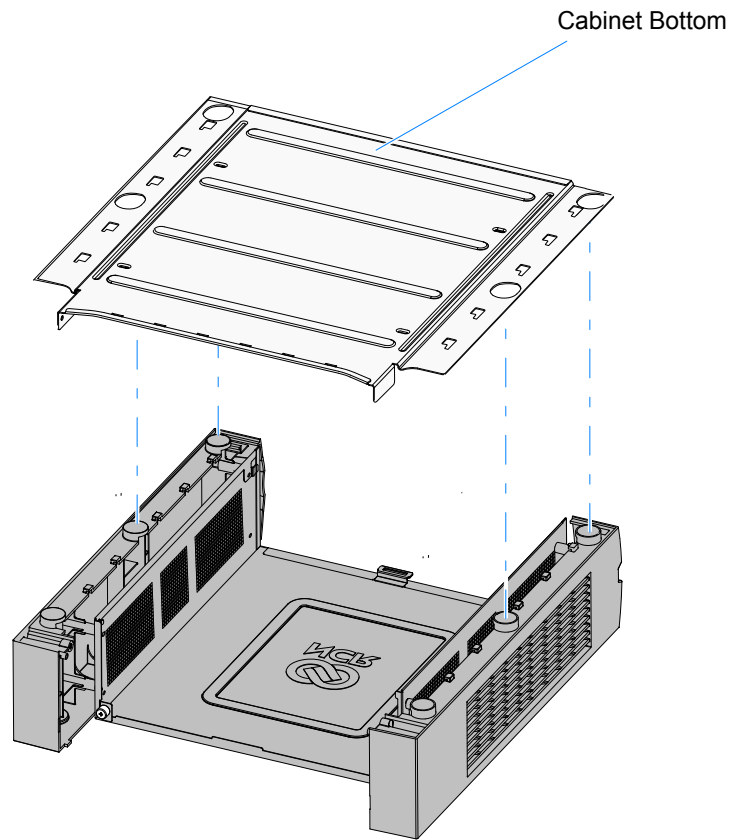
b. Slide the Cabinet Bottom toward the back of the unit to lock it into position.
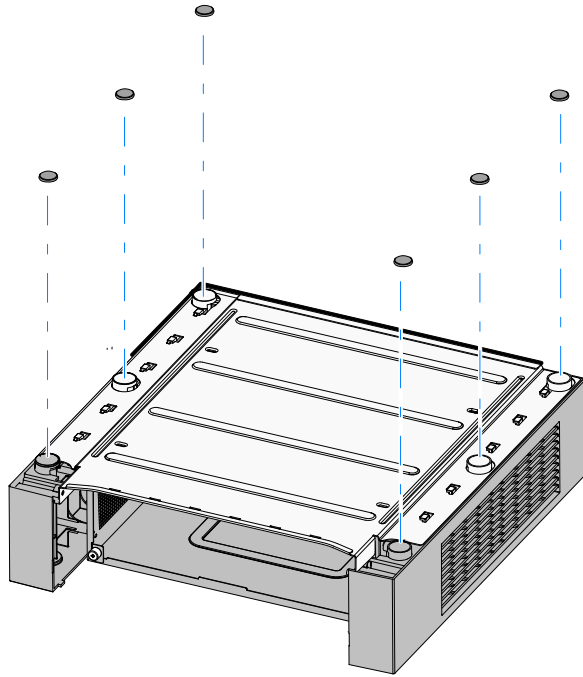
Cabinet Bottom

24582

c. Secure the Cabinet Bottom to the Cabinet Extensions with screws (2 on the back end of the unit and 4 on the front end @ 8 lbf).
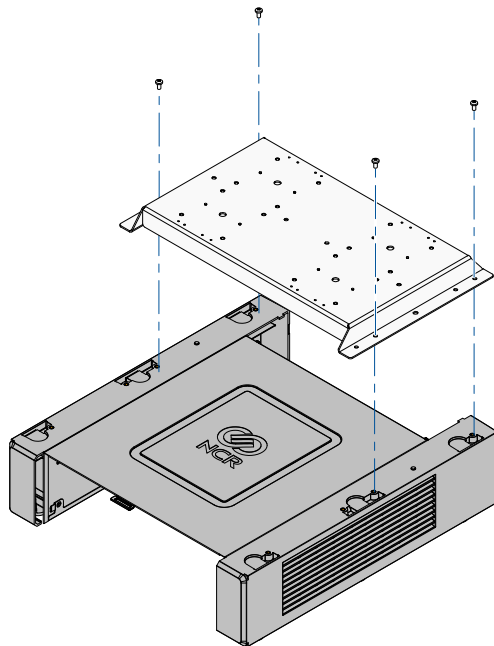
Screws

24620

4. Install the adhesive-backed Rubber Bumpers (6) on the bottom of the Cabinet Extensions. Clean the plastic surfaces with isopropyl alcohol before adhering the rubber bumpers.
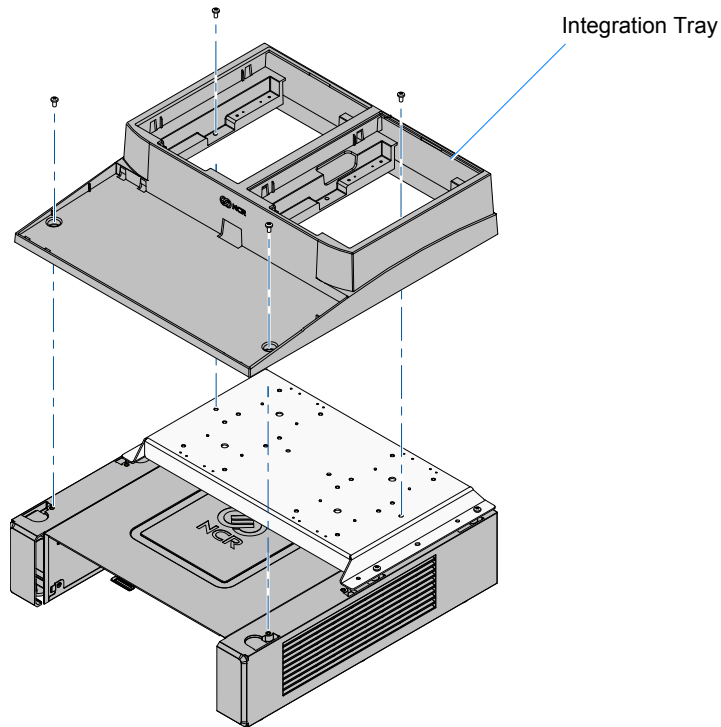

24619

5. Position the Tray Support Bracket on top of the terminal and secure it with screws (4 @ 8 lbf).


31264

6. Position the Integration Tray on top of the Tray Support Bracket and secure it with screws (4 @ 8 lbf).

Integration Tray

31265

Installing the Electronics Sled

1. Install the Chassis Handle onto the Electronics Sled.

   a. Inserting one end of the handle into one of the slots on the Electronics Sled Chassis.

   b. Spread the other end of the handle out and insert it into the other slot.

1. Insert one end.

2. Spread other end.

3. Insert other end.   27652
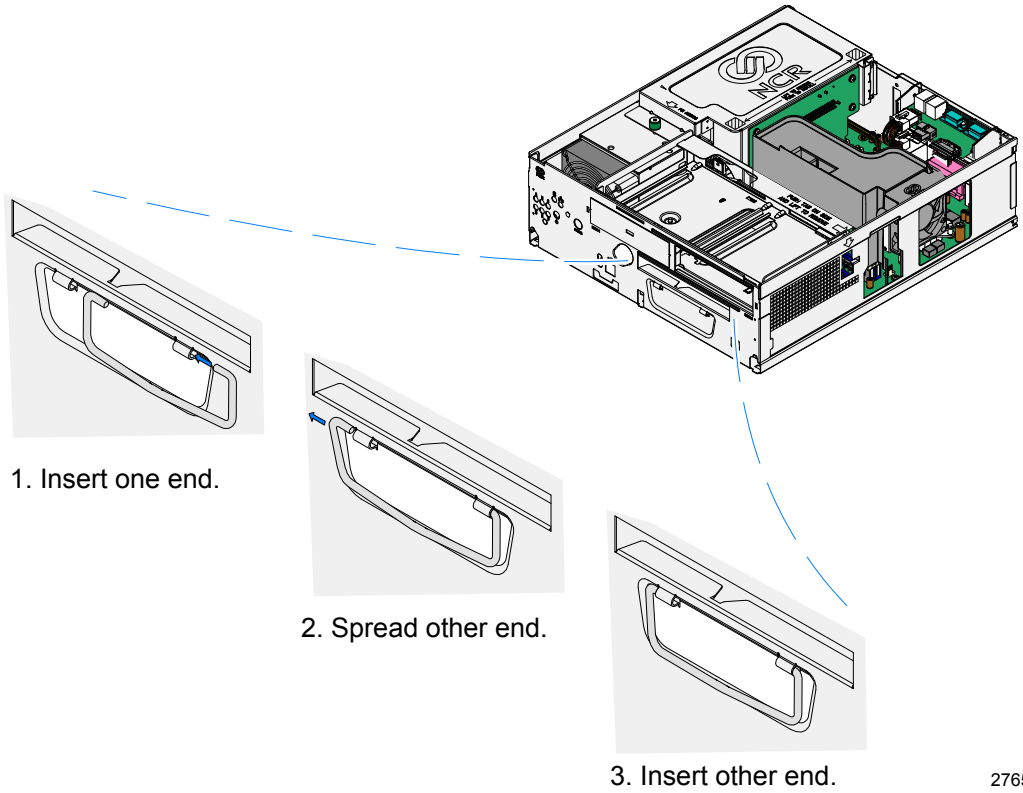
2. Slide the Electronics Sled into the cabinet. Do not tighten the thumbscrews so the sled can be pulled out for service.
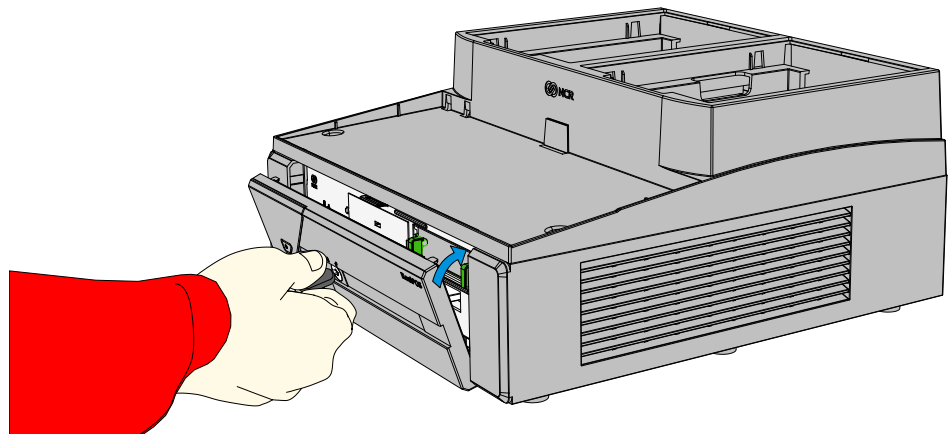
⚠ **Caution:** Remember to tighten the thumbscrew before moving the terminal to another location to prevent the sled from falling out.
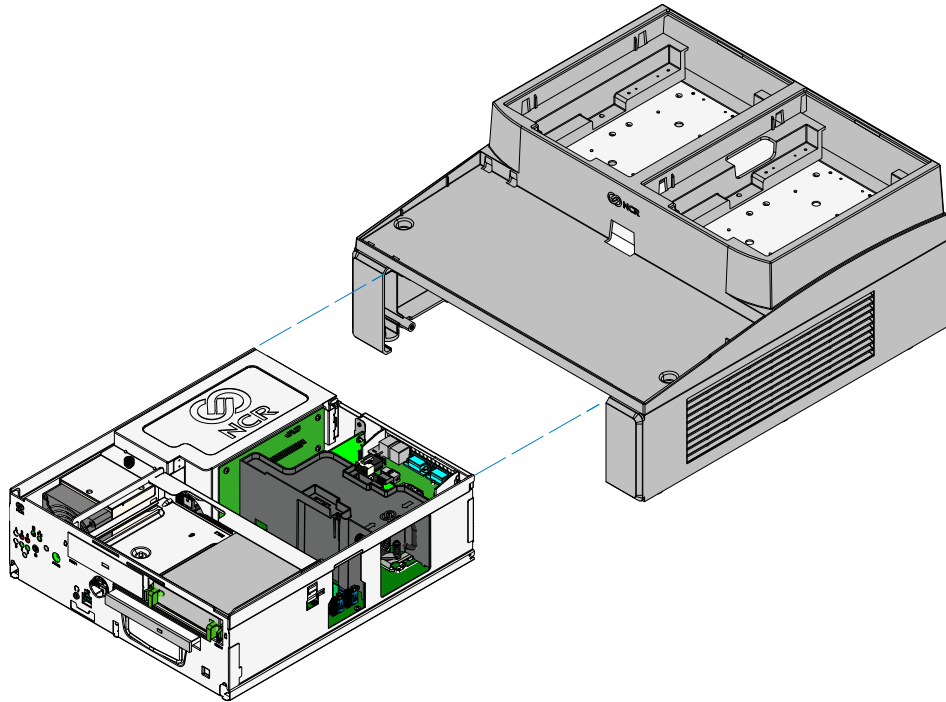
31266

3. Replace the Bezel.

    a. Turn the Keylock to the unlocked position.

    b. Insert the hooks on the bottom edge of the Bezel in the slots in the chassis.

    c. Pivot the top of the Bezel into the chassis until it snap into position.

31283

    d. Turn the Keylock to the locked position.
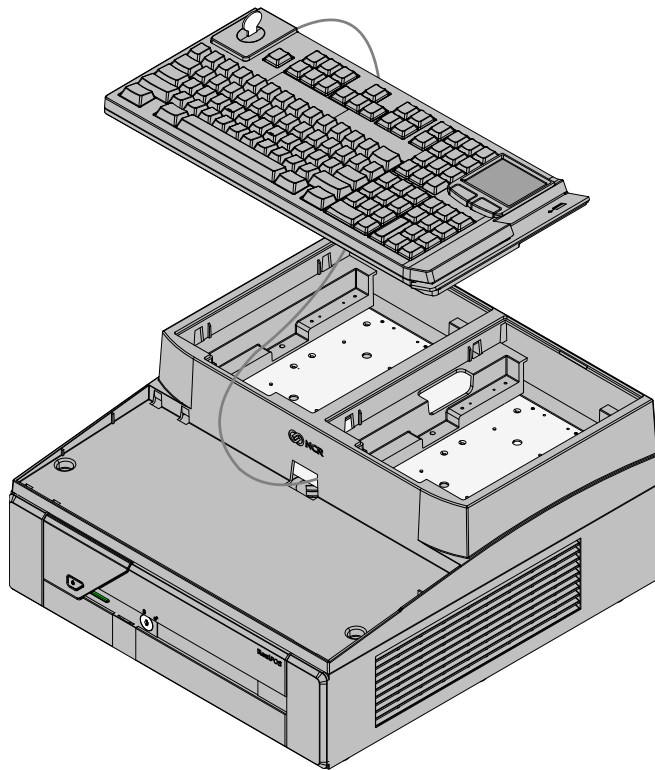
Installing the Keyboard

Note: If a keyboard is not used insert the Integration Tray Plug into the opening where the keyboard cable would normally be routed.

Keyboard installation varies, depending on which keyboard you are using. See the following options.

- NCR 5932-5xxx USB Alphanumeric Big Ticket Keyboard

    a. Install the keyboard in the Integration Tray.
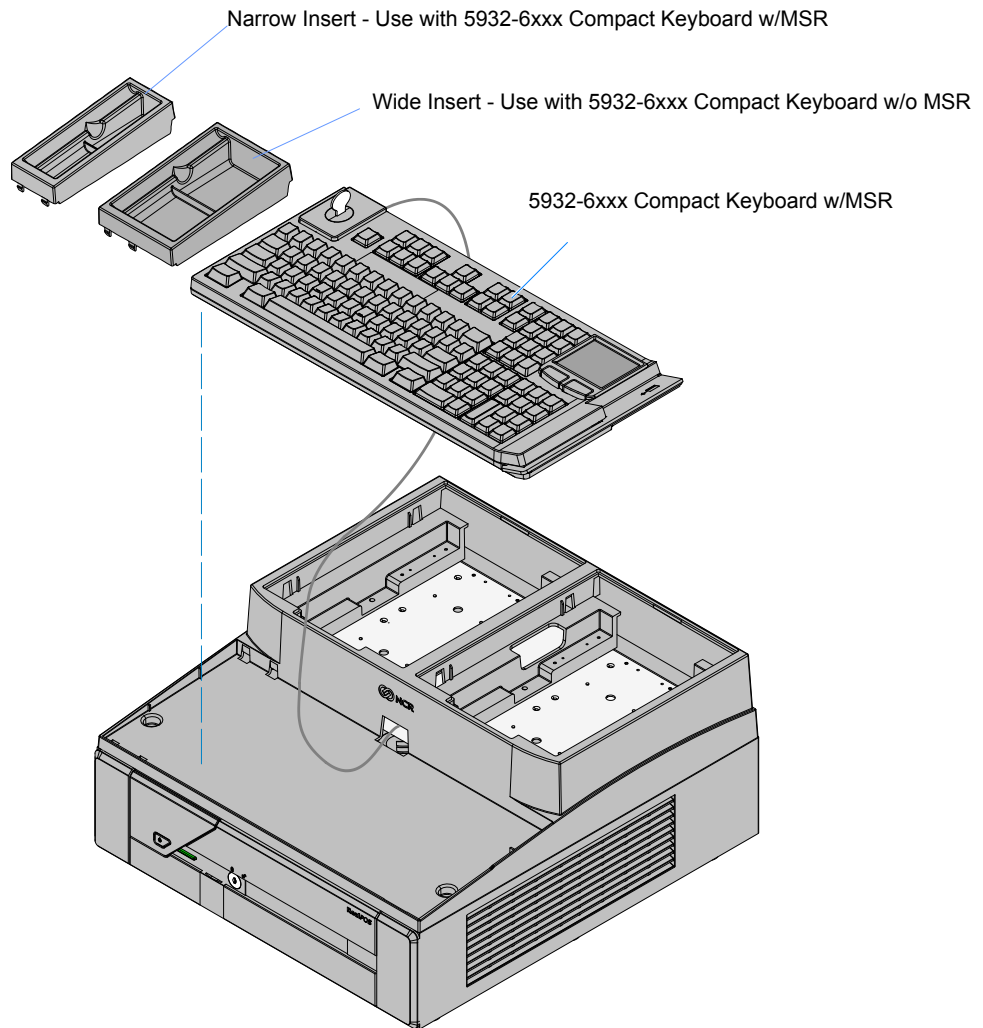
    b. Route the cable as shown.

31267

- NCR 5932-22xx 64-Key Programmable POS Keyboard

- NCR 5932-6xxx Compact Alpha-Numeric Keyboard
  a. Install the keyboard in the Integration Tray.

  b. Route the cable as shown.

  c. Install the Keyboard Tray Insert, if applicable.

Note: There are two Keyboard Tray Inserts in the kit. The narrow tray is used in all cases except when using the 5932-65xx PS/2 model without an MSR.

Narrow Insert - Use with 5932-6xxx Compact Keyboard w/MSR

Wide Insert - Use with 5932-6xxx Compact Keyboard w/o MSR

5932-6xxx Compact Keyboard w/MSR

31268

Installing the Transaction Printer

The NCR 7167, 7168, 7197, or 7198 printer can be located on either side of the Integration Tray.

Note: The Printer Cable Strain Relief is different on the Release 1.0 and the Series II printers. The Cable Strain Relief on Release 1.0 printers prevents the printer from sitting properly in the Integration Tray and must be removed from the printer and installed in the Integration Tray.

NCR 7167/7168 Release 1.0 Printers Only:

1. Remove the Cable Strain Relief from the back of the printer (2 screws). The printer will not sit properly in the tray with it installed.

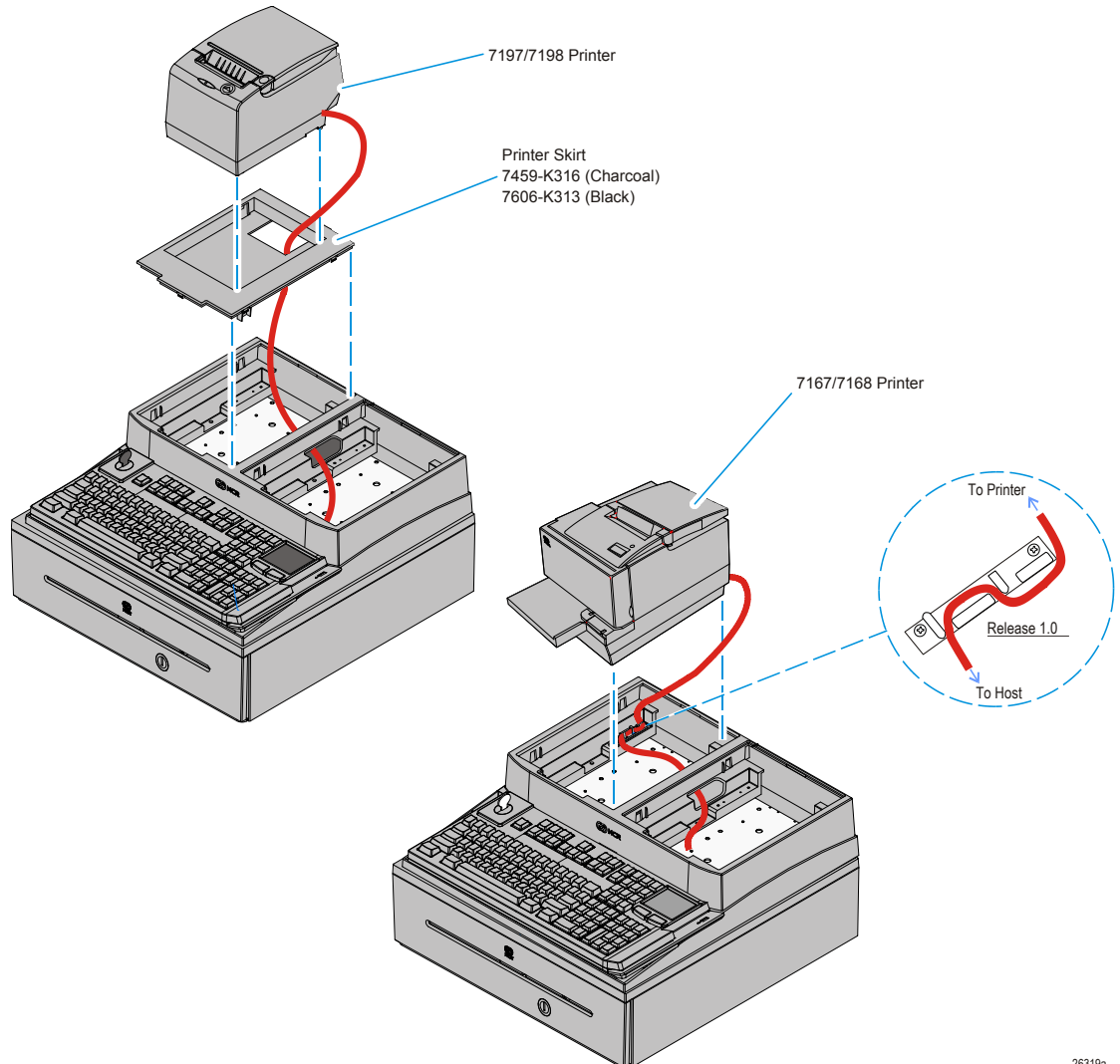2. Install the Cable Strain Relief on the Integration Tray using the same screws.

Cable Strain Relief

7167/68 Release 1.0 Printer

7167/68 Series II Printer

Do not remove the Cable Strain Relief on Series II printers.

26318a
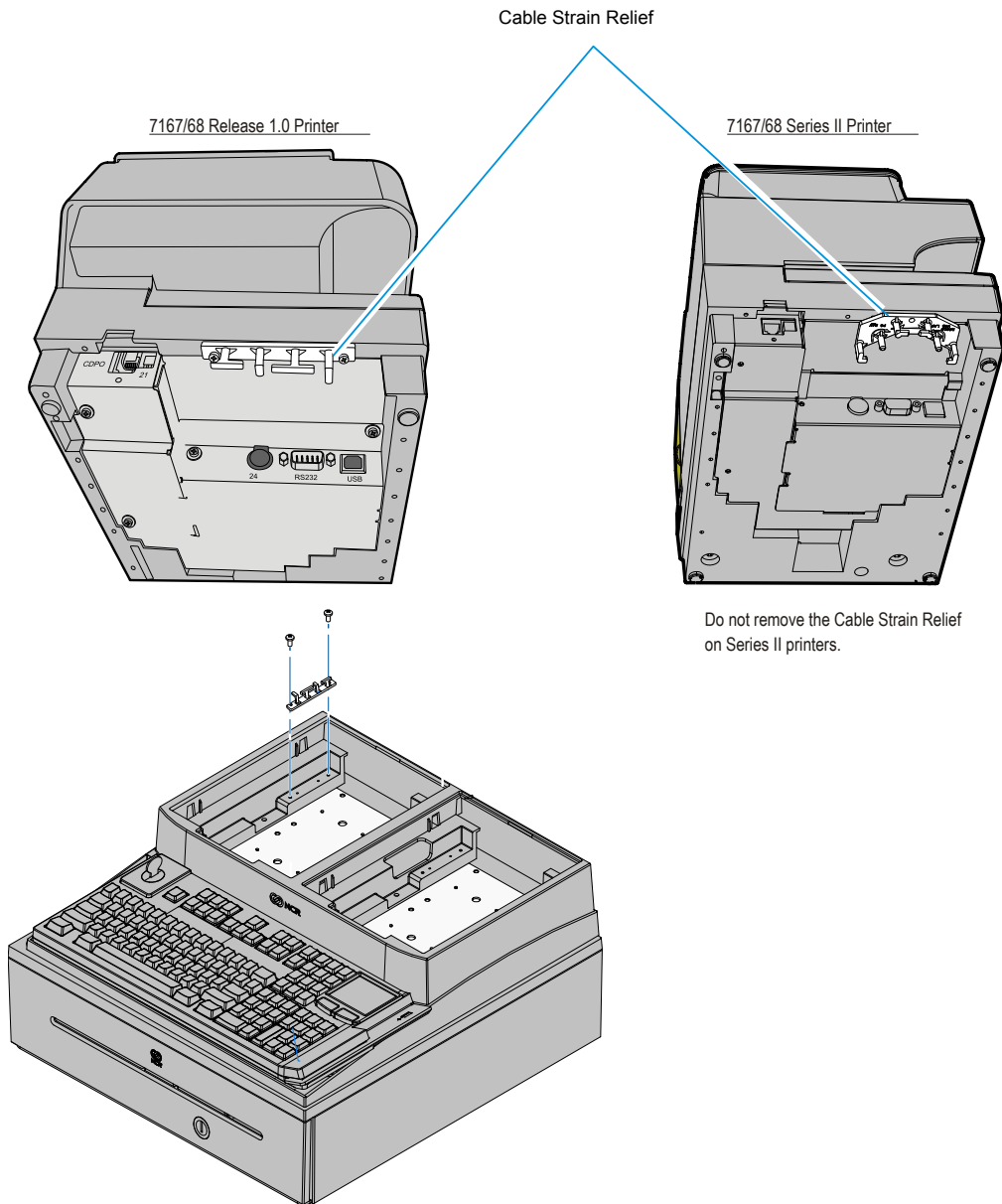
3. Connect the Printer Cable to the USB and Power connectors.

4. *Series II Printers Only:* Route the cable through the Cable Strain Relief on the printer as shown.

33279a
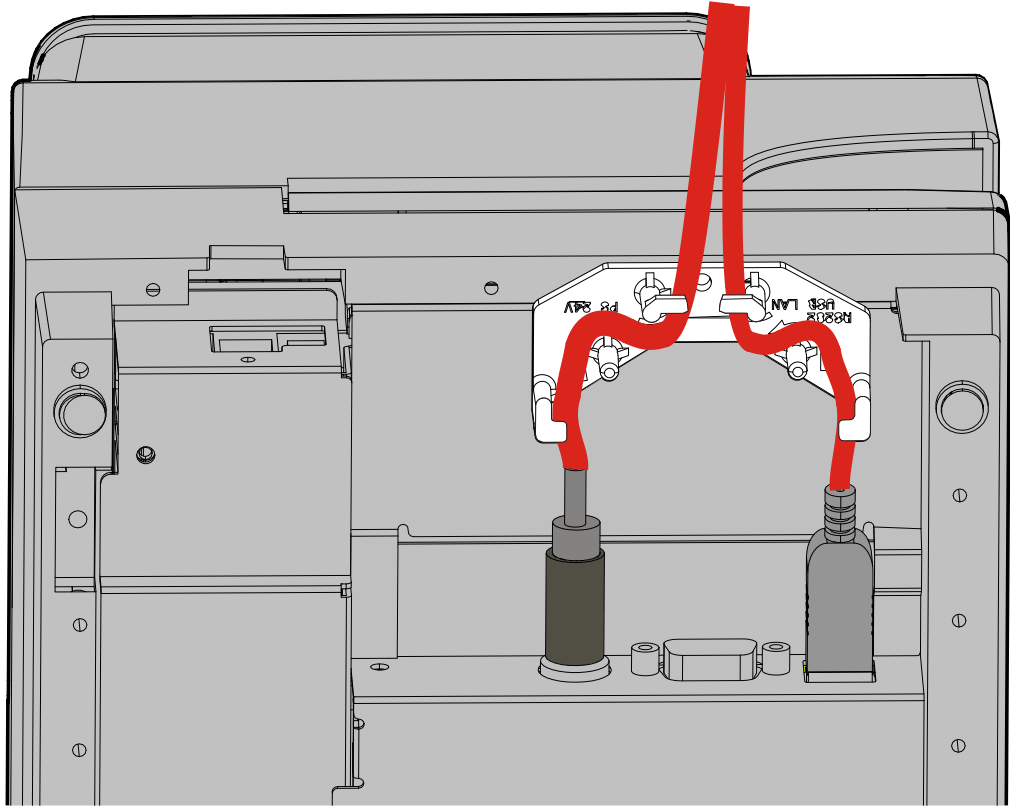
5. Route the printer cable out the back of the terminal and set the printer in the tray opening.

    NCR 7197/7198 Only: First install the 7459-K316 Printer Skirt, route the cable out the back of the terminal, and then set the printer in the cabinet.

    NCR 7167/7168 Only: Route the cable through the Cable Strain Relief and then set the printer in the cabinet.

    7197/7198 Printer

    Printer Skirt
    7459-K316 (Charcoal)
    7606-K313 (Black)

    7167/7168 Printer

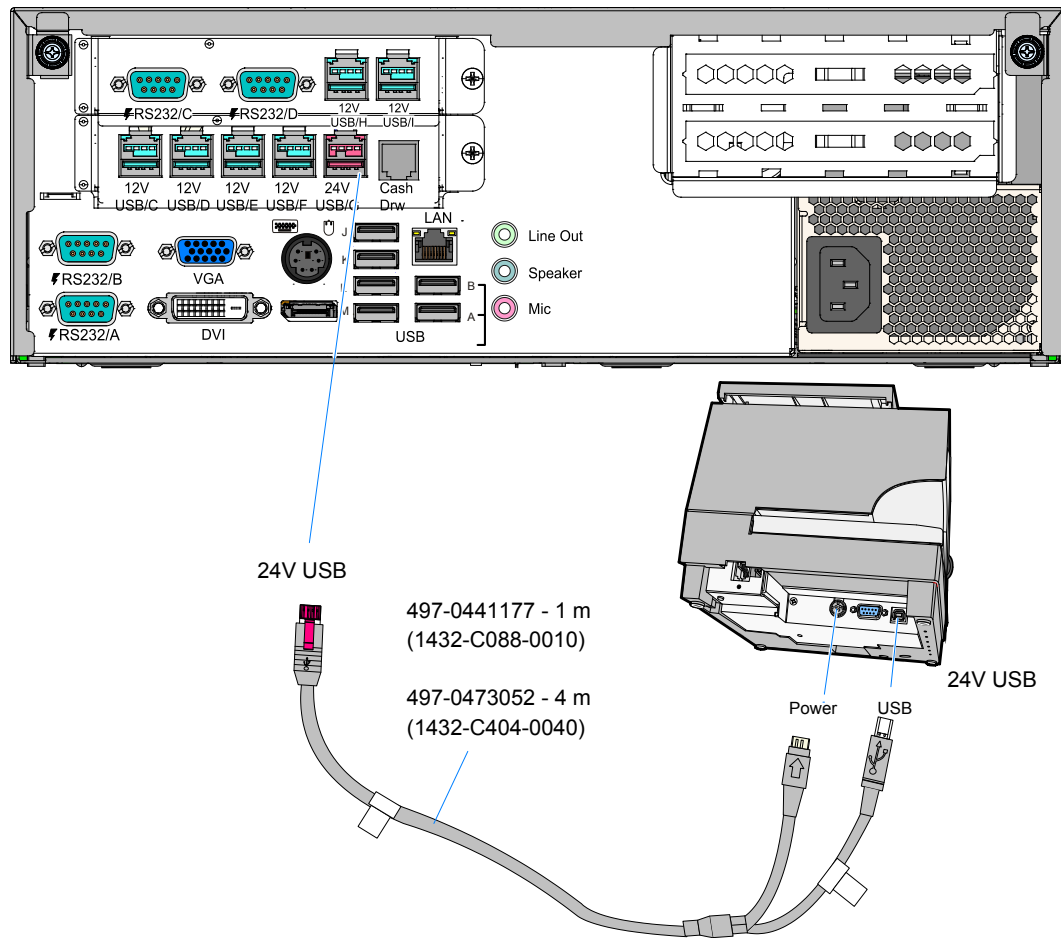   To Printer

    Release 1.0

    To Host

    26319a

Printer Cable Connections

The printers can connect through a USB connector or an RS-232 connector. It receives power through a Powered USB power cable.
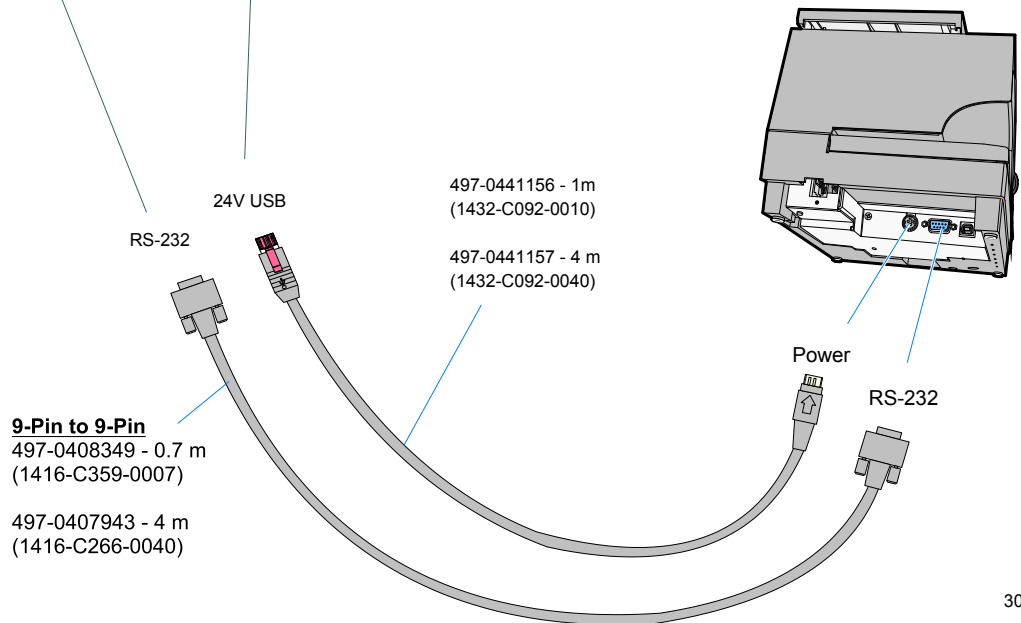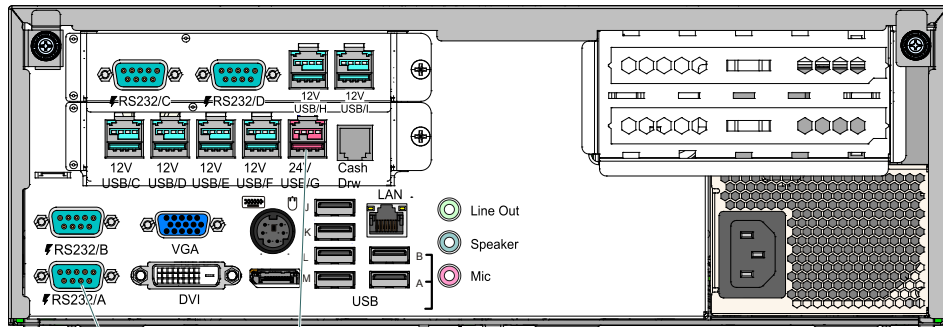
USB Installation

Connect the Powered USB Printer Interface Cable to the USB Connector and Power Connector on the printer and to the 24 V Powered USB Connector on the terminal.

24V USB

497-0441177 - 1 m
(1432-C088-0010)

497-0473052 - 4 m
(1432-C404-0040)

24V USB

Power   USB

30654

RS-232 Installation w/Power from Powered USB

1. Connect the RS-232 Printer Interface Cable to the RS-232 Connector on the printer and to an RS-232 Connector on the terminal.

2. Connect the Printer Power Cable to the Power Connector on the printer and to the 24 V Powered USB Connector on the terminal.


24V USB

RS-232

497-0441156 - 1m
(1432-C092-0010)

497-0441157 - 4 m
(1432-C092-0040)

Power

RS-232

9-Pin to 9-Pin
497-0408349 - 0.7 m
(1416-C359-0007)

497-0407943 - 4 m
(1416-C266-0040)

30657

Installing the Operator Display

The NCR 5964, 5954, and 5942 use the same mount. Since the installation procedures are nearly identical, only the 5954 is discussed in this section. The primary differences are with cable connections.

Since the display mounting procedures are identical, only the 5954 is discussed in this section. The primary differences are with cable connections, which are discussed in the specific display sections.

The Operator Display can be installed on the right, left, front, or rear of the tray. Consideration should be given to the total terminal configuration to obtain satisfactory clearances.

Display Mounting Location Options

31270
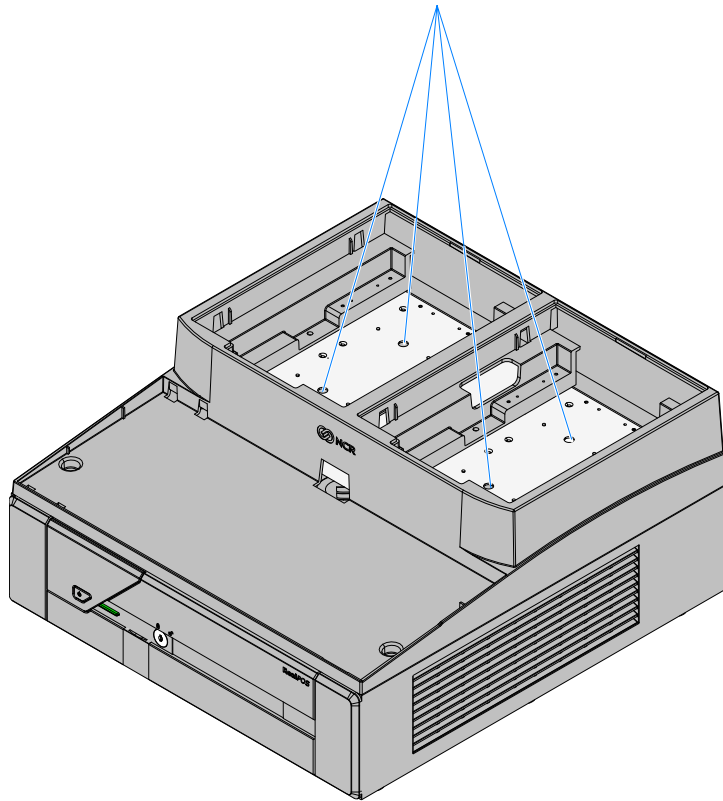
Note: When there is no Customer Display the recommended location for the Operator Display is the back position, thus minimizing the overhang of the display.

1. Remove the screws (4) from the back of the DynaKey and then use these screws to secure the Display Mount Back Plate.
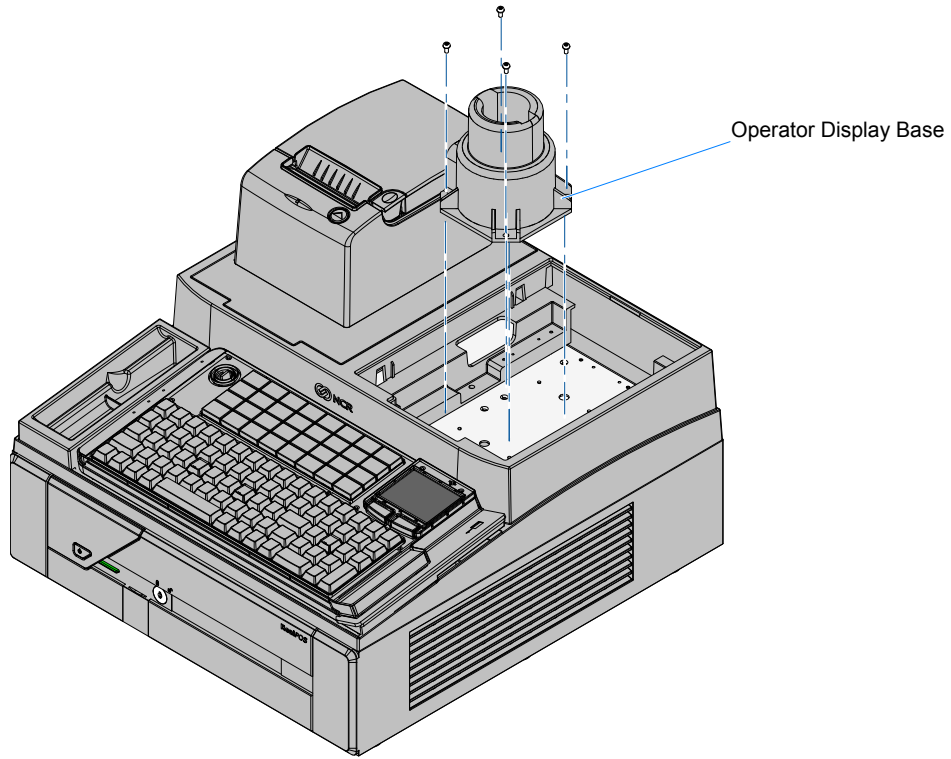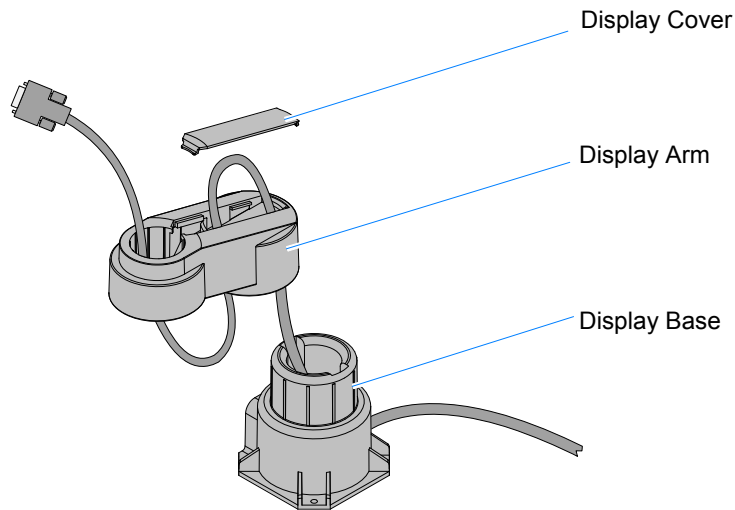
23900a

Display Mount Back Plate
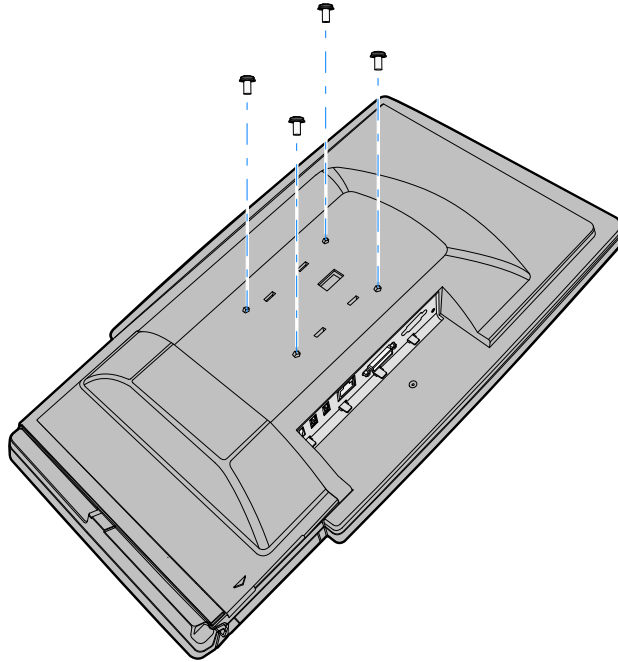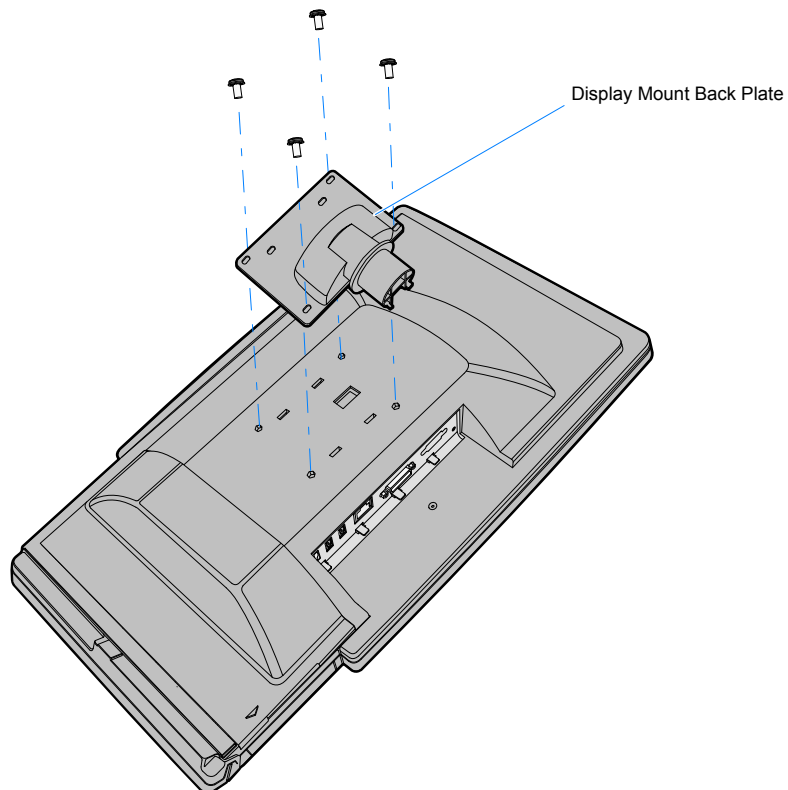
24604

2. Secure the Operator Display Base to the Tray Support Bracket with screws (4).

Operator Display Base

31271

3. Route the cables through the Display Arm as shown below.

Display Cover

Display Arm

Display Base

21202b

4. Install the Display Arm onto the Display Base.

5. Remove the excess slack in the cables and then install the Display Cover onto the Display Arm.

6. Connect the cables to the display.

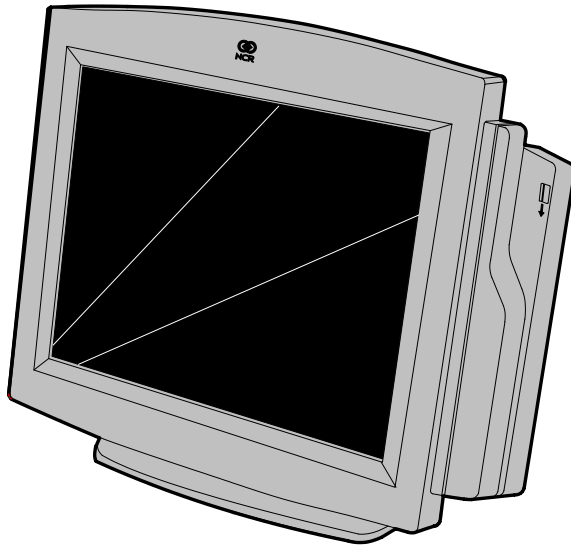7. Insert the Display Back Plate into the Operator Display Arm.
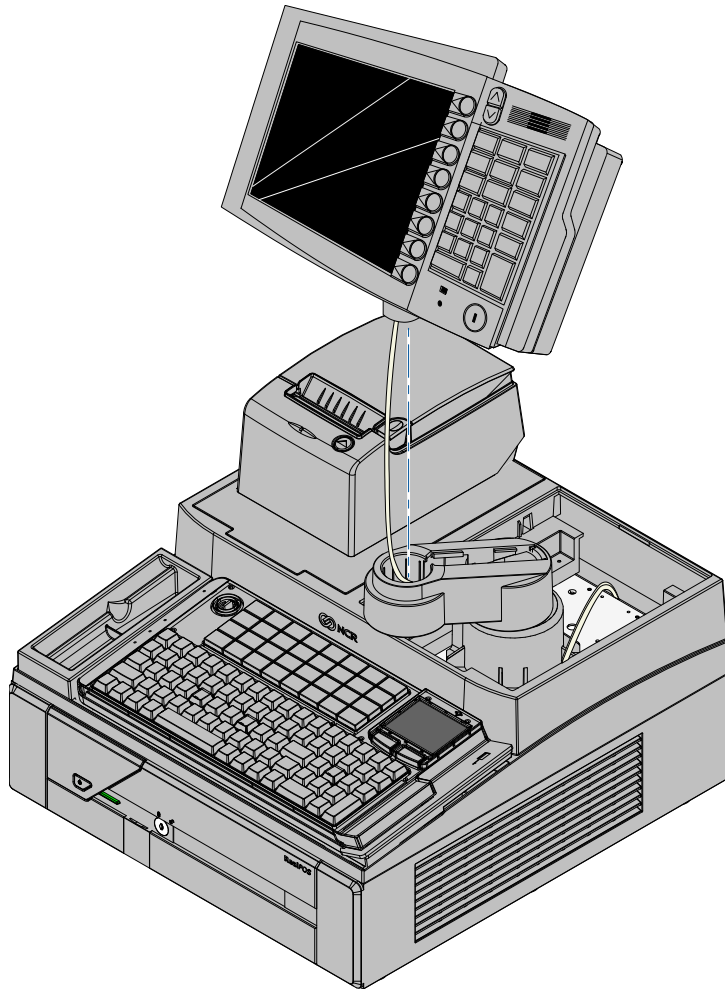
31272

8. Route the display cables out the back of the cabinet.

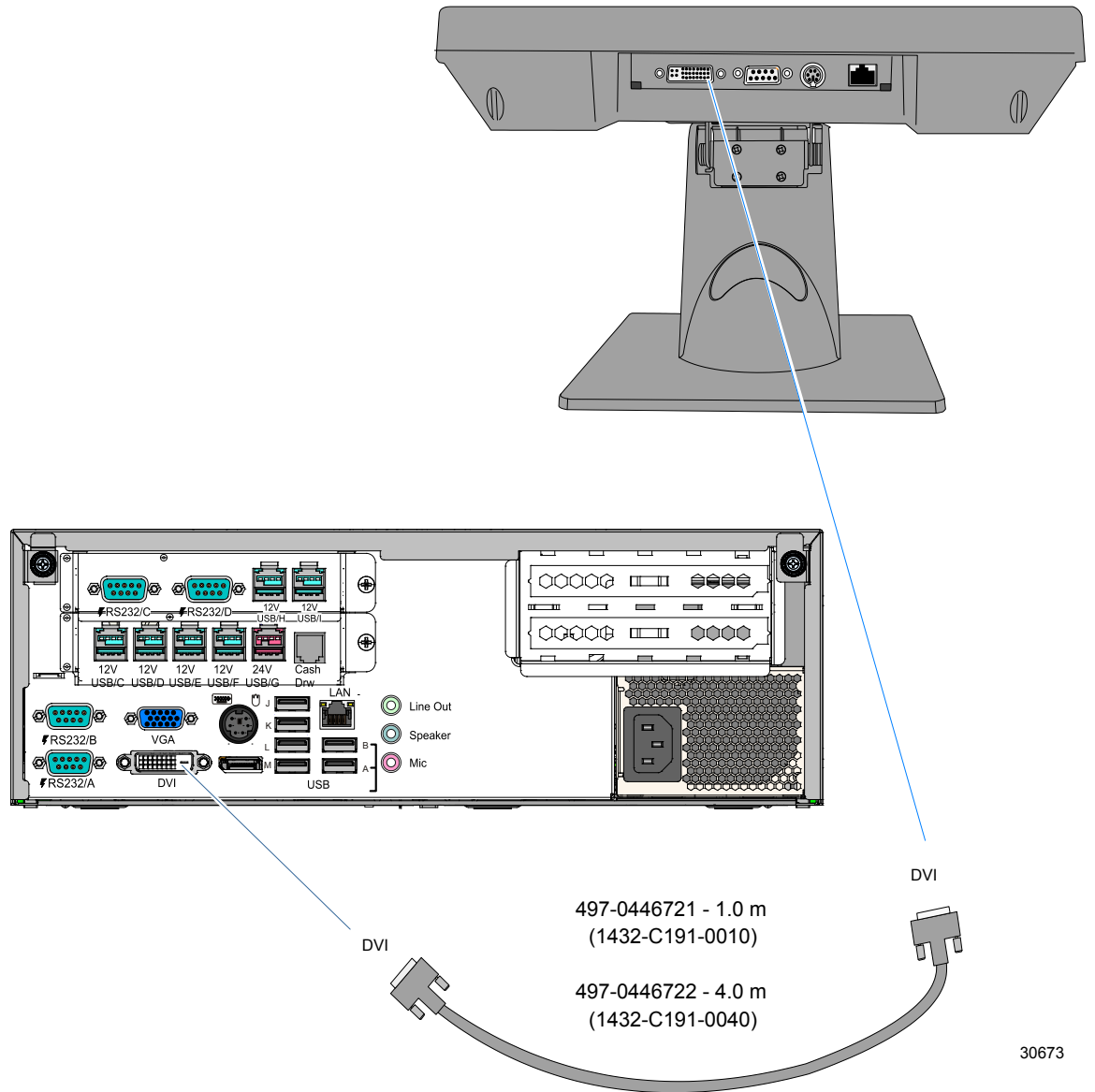# Operator Display Cable Connections

NCR 5964 12.1-inch Touch LCD

19429a

The following illustrations show the cable connections for the 5964. There are two cables required.

- DVI Cable - provides the video interface to the 5964

- RS-232 Y-Cable - provides a serial interface and power to the 5964. It also connects the 5964 PS/2 keyboard connector to the terminal, which provides an interface for the wedge controller (MSR, PS/2 Keyboard, Scanner, and Tone Speaker).
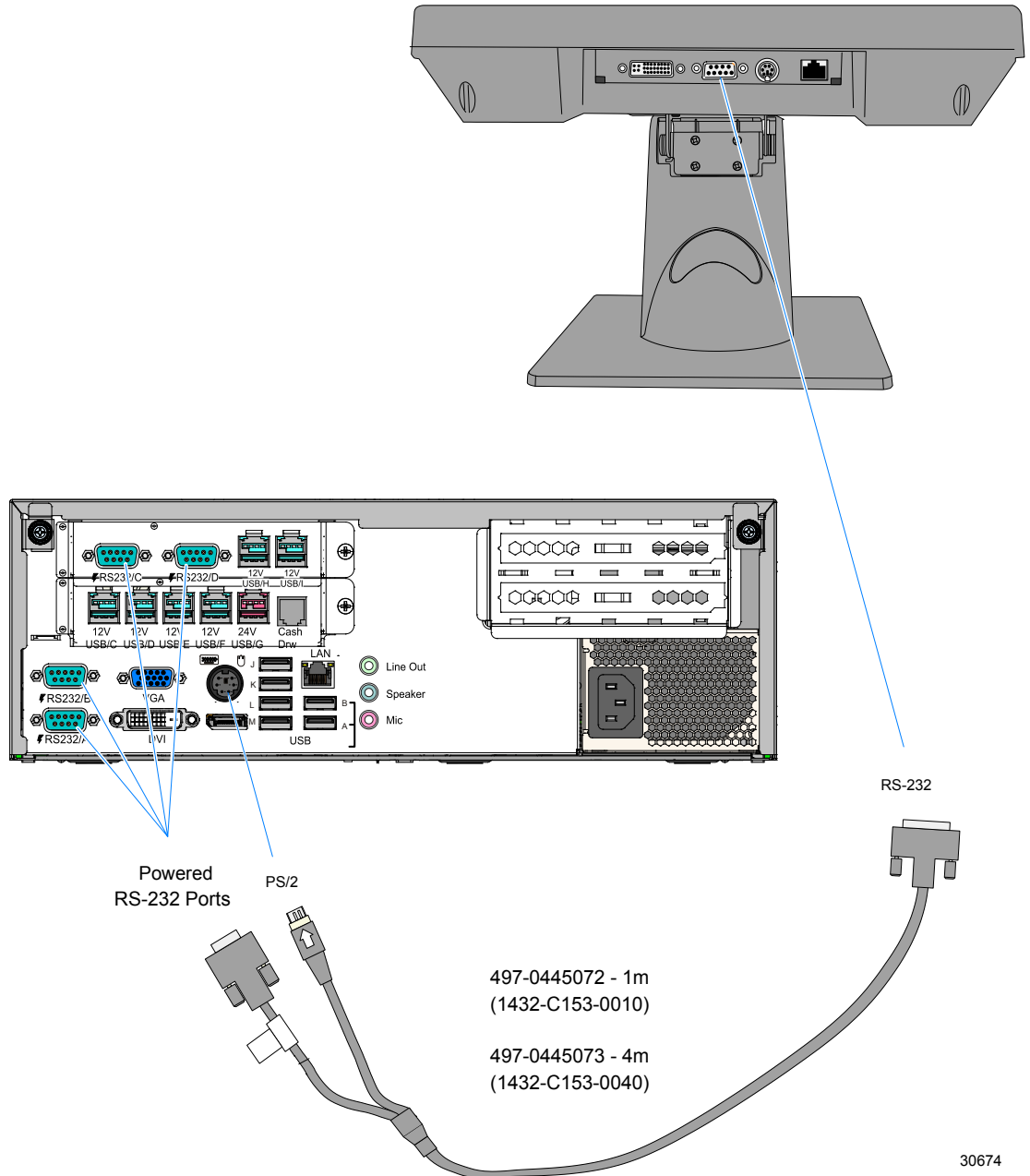
DVI Cable Connections

Connect the cable to the DVI Connectors on the 5964 display and terminal.

DVI

497-0446721 - 1.0 m
(1432-C191-0010)

497-0446722 - 4.0 m
(1432-C191-0040)

DVI

30673

RS-232 Cable Connections

1. Connect the Y-cable to one of the Powered RS-232 ports and to the PS/2 connector on the terminal.

2. Connect the other end of the Y-Cable to the RS-232 connector on the 5964 display.
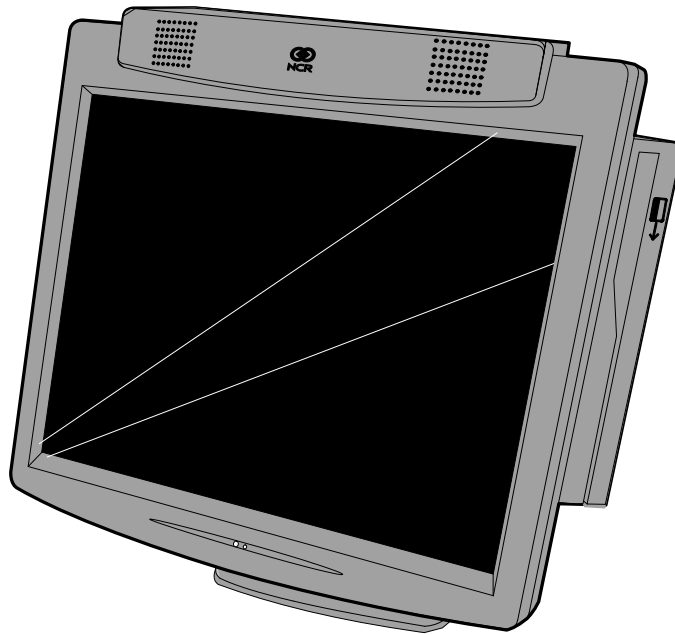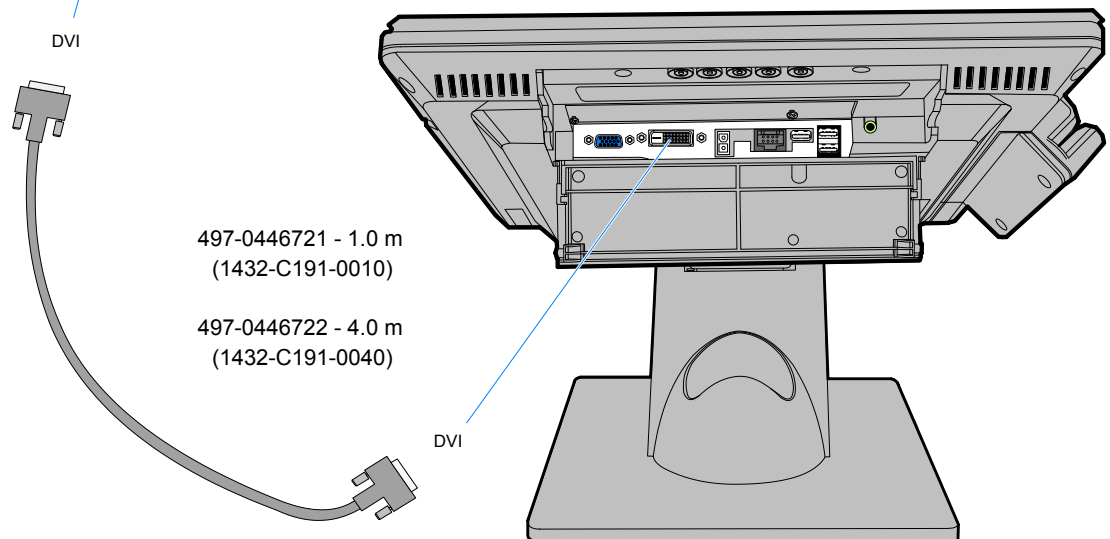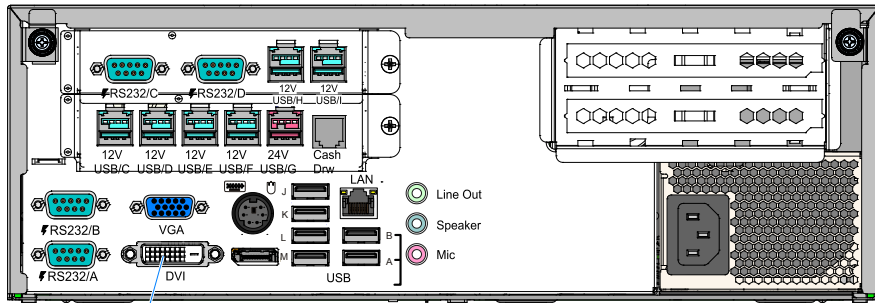

Powered
RS-232 Ports

PS/2

RS-232

497-0445072 - 1m
(1432-C153-0010)

497-0445073 - 4m
(1432-C153-0040)

30674

For more information refer to the *NCR 5964 12.1-Inch Touch LCD User's Guide (B005-0000-1324)*

NCR 5964 15-inch Touch LCD

Note: A PC keyboard is required to configure a 5964 15-inch Touch LCD.

22041

The following illustrations show the cable connections for the 5964. There are two cables required.

- DVI or VGA cable for video
- Powered Universal Serial Bus (USB) for data and power
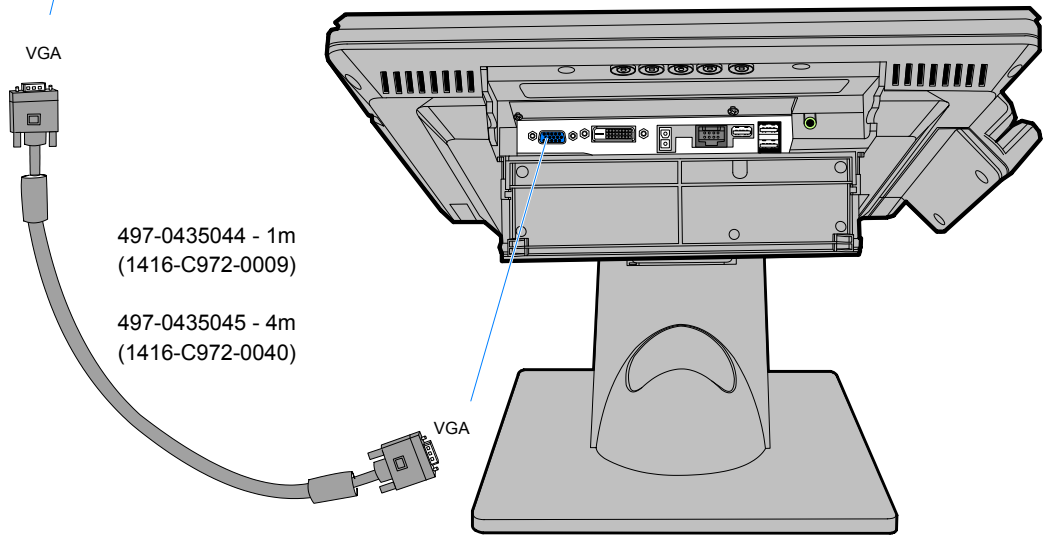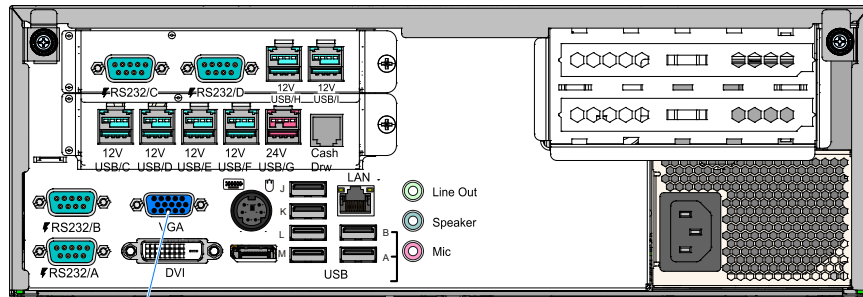
DVI Connections

Connect the LCD Cable to the DVI connectors on both the 5964 monitor and terminal.

DVI

497-0446721 - 1.0 m
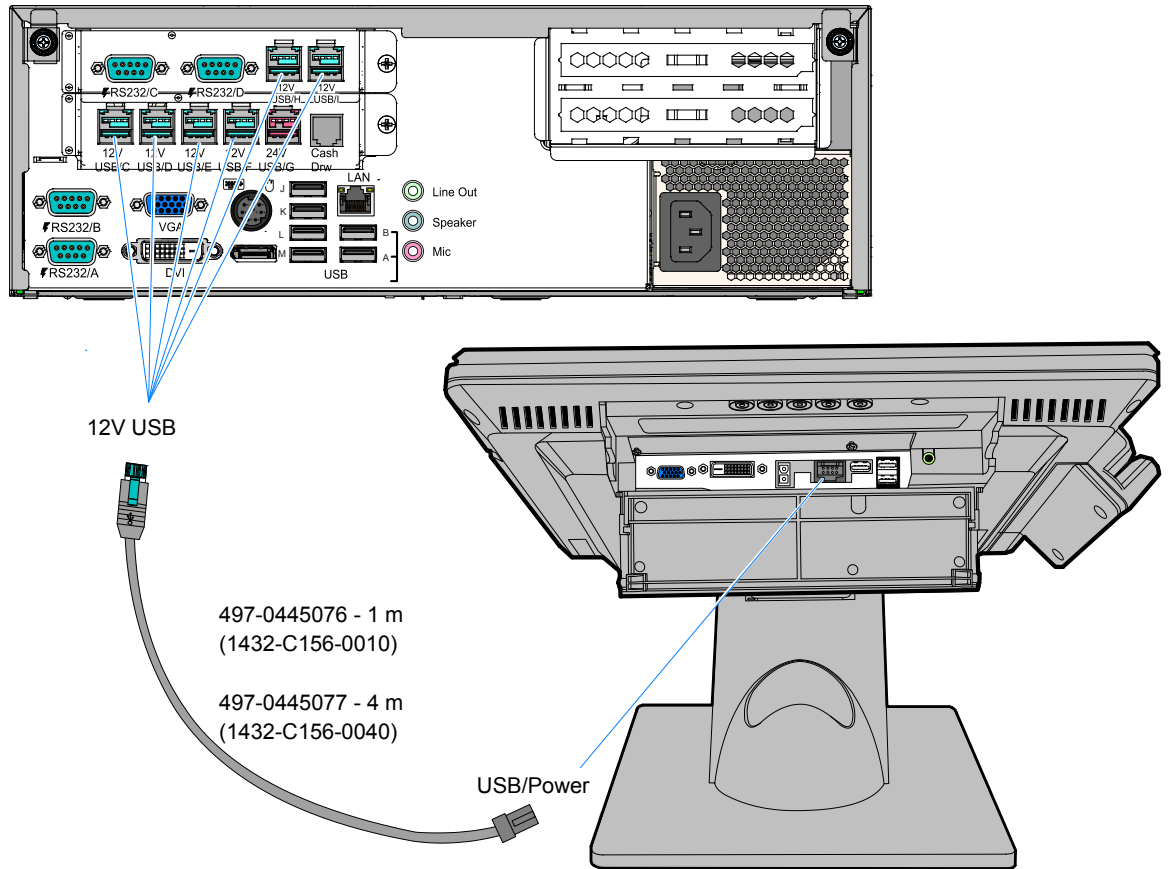(1432-C191-0010)

497-0446722 - 4.0 m
(1432-C191-0040)

DVI

30675

VGA Connections

Connect the LCD Cable to the VGA connectors on both the 5964 monitor and terminal.

VGA

497-0435044 - 1m
(1416-C972-0009)

497-0435045 - 4m
(1416-C972-0040)

VGA

30676

Powered USB Cable Connections

Connect the Powered USB Cable to the 5964 and to one of the 12V Powered USB
connectors on the terminal.

30678

For more information refer to the *NCR 5964 15-Inch Touch LCD User's Guide (B005-0000-
1570)*

5943-Inch LCD Monitor

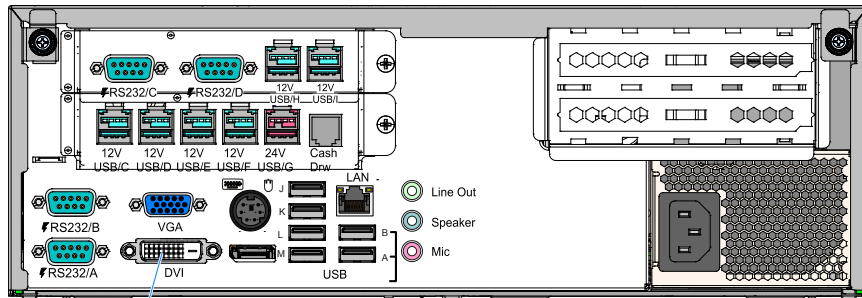The 5943 12-Inch LCD Monitor connects to the host terminal using two cables.

- Digital Video Interface (DVI) or VGA cable for video

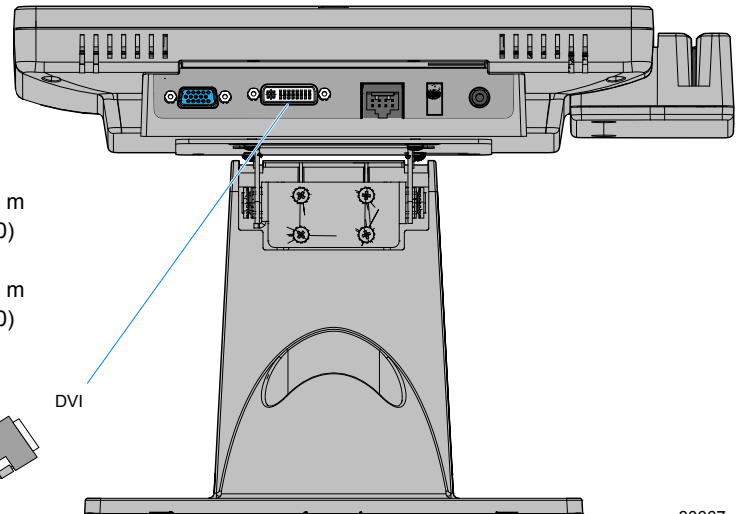- Powered Universal Serial Bus (USB) for data and power
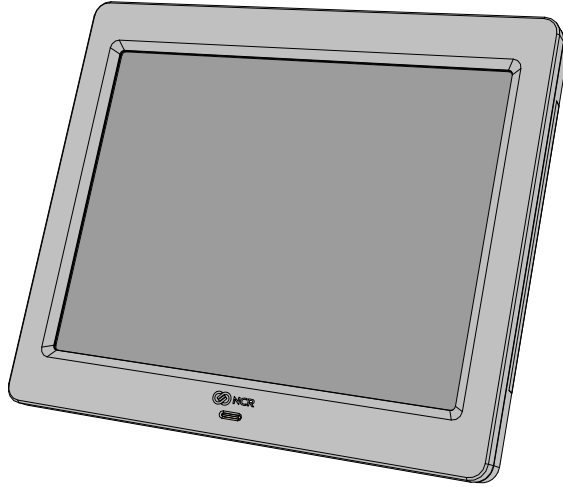
31274

DVI Connections (Video)

Connect the DVI Cable to the DVI connectors on both the 5943 LCD and terminal.
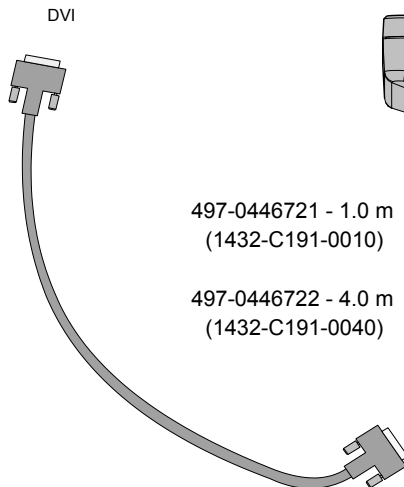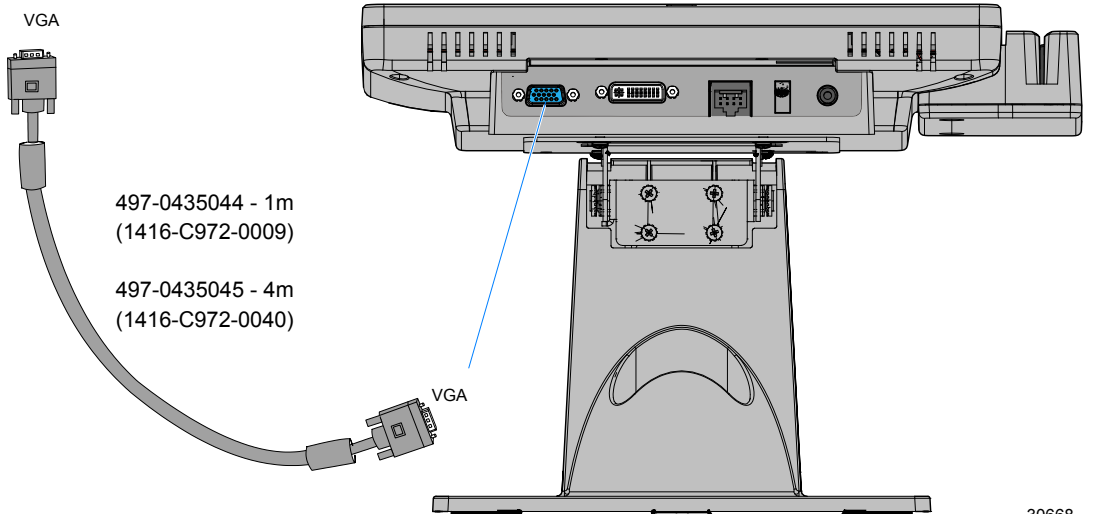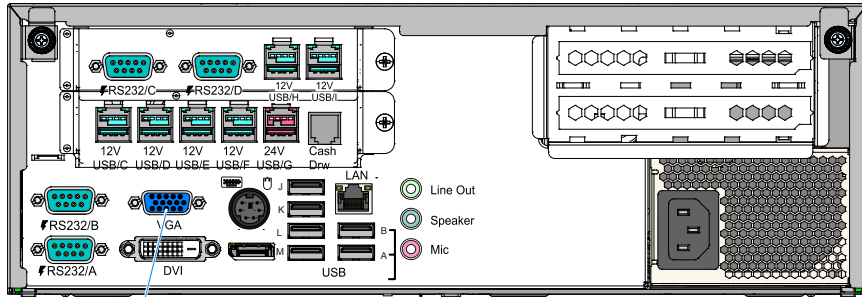
497-0446721 - 1.0 m
(1432-C191-0010)

497-0446722 - 4.0 m
(1432-C191-0040)

30667

VGA Connections (Video)

Connect the VGA Cable to the VGA connectors on both the 5943 LCD and terminal.

VGA

497-0435044 - 1m
(1416-C972-0009)

497-0435045 - 4m
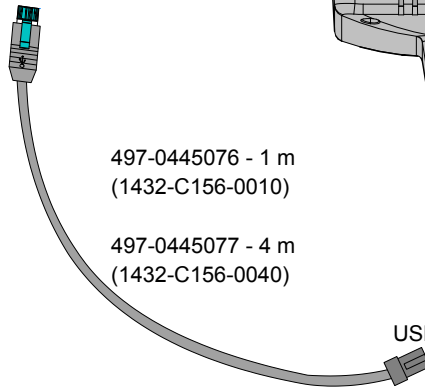(1416-C972-0040)

VGA

30668

Powered USB Cable Connections (Data and Power)

Connect the Powered USB Cable to the 5943 Power connector and to one of the 12V Powered USB connectors on the terminal.
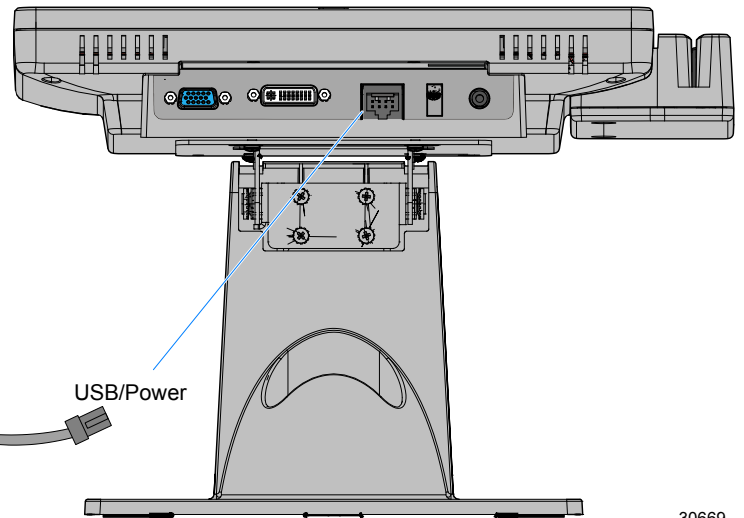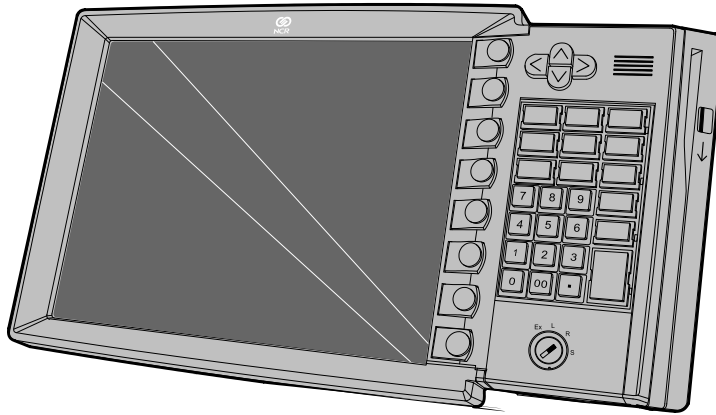

12V USB

497-0445076 - 1 m
(1432-C156-0010)

497-0445077 - 4 m
(1432-C156-0040)

USB/Power
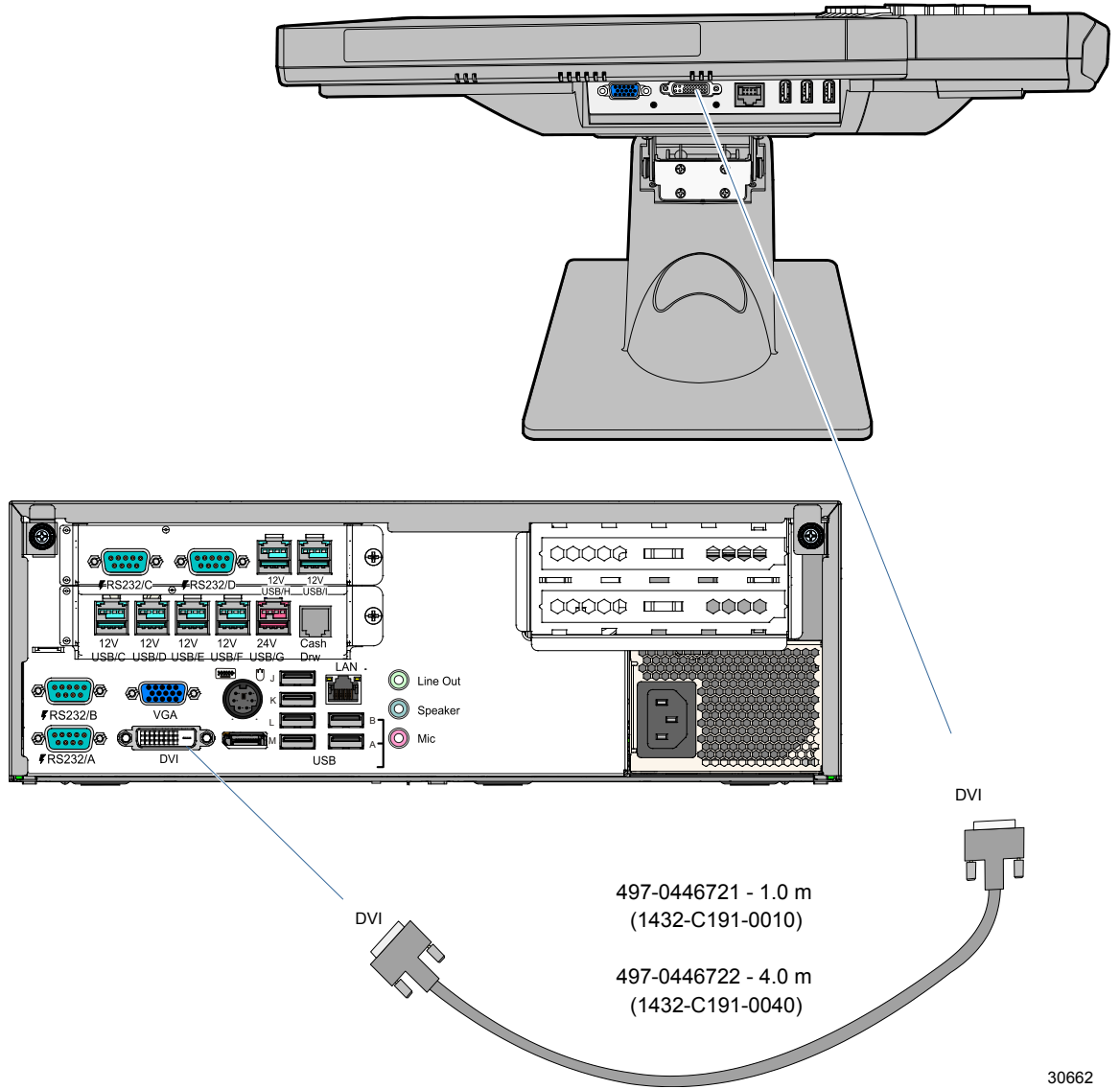
30669
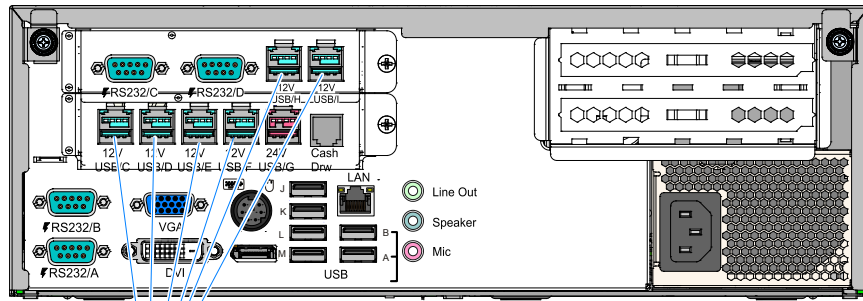
5954 USB DynaKey

31273

The DynaKey connects to the terminal via two cables.

- Digital Video Interface (DVI) cable for video

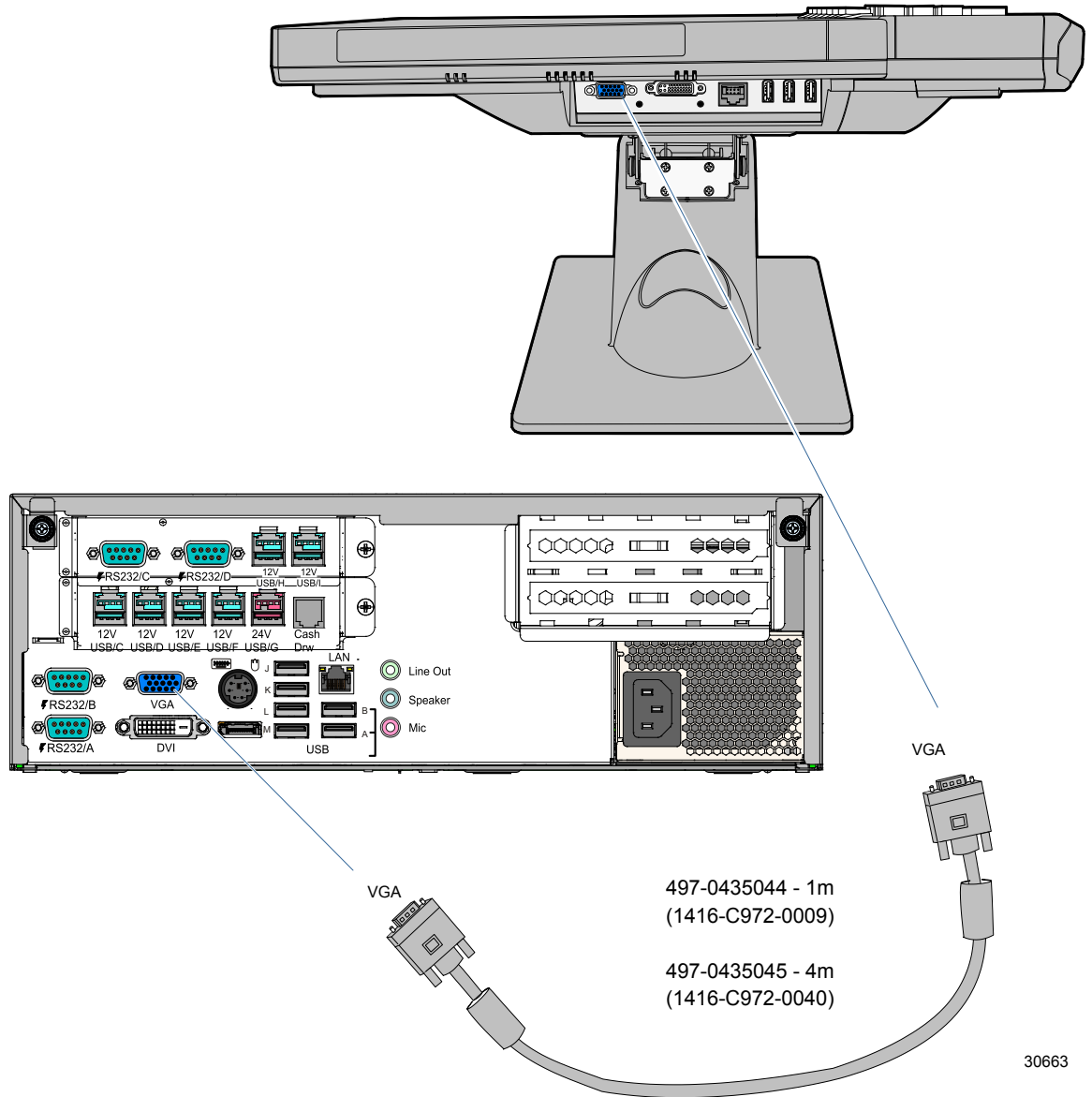- Powered Universal Serial Bus (USB) for data and power

DVI Cable Connections

Connect the cable to the DVI connectors on the DynaKey and terminal.

DVI

497-0446721 - 1.0 m
(1432-C191-0010)

497-0446722 - 4.0 m
(1432-C191-0040)

DVI

30662

DVI Cable Connections

Connect the cable to the VGA connectors on the DynaKey and terminal.

Powered USB Cable Connections

Connect the Powered USB Cable to the DynaKey and to one of the Powered USB connectors terminal.

USB/Power

12V USB

497-0445076 - 1 m
(1432-C156-0010)

497-0445077 - 4 m
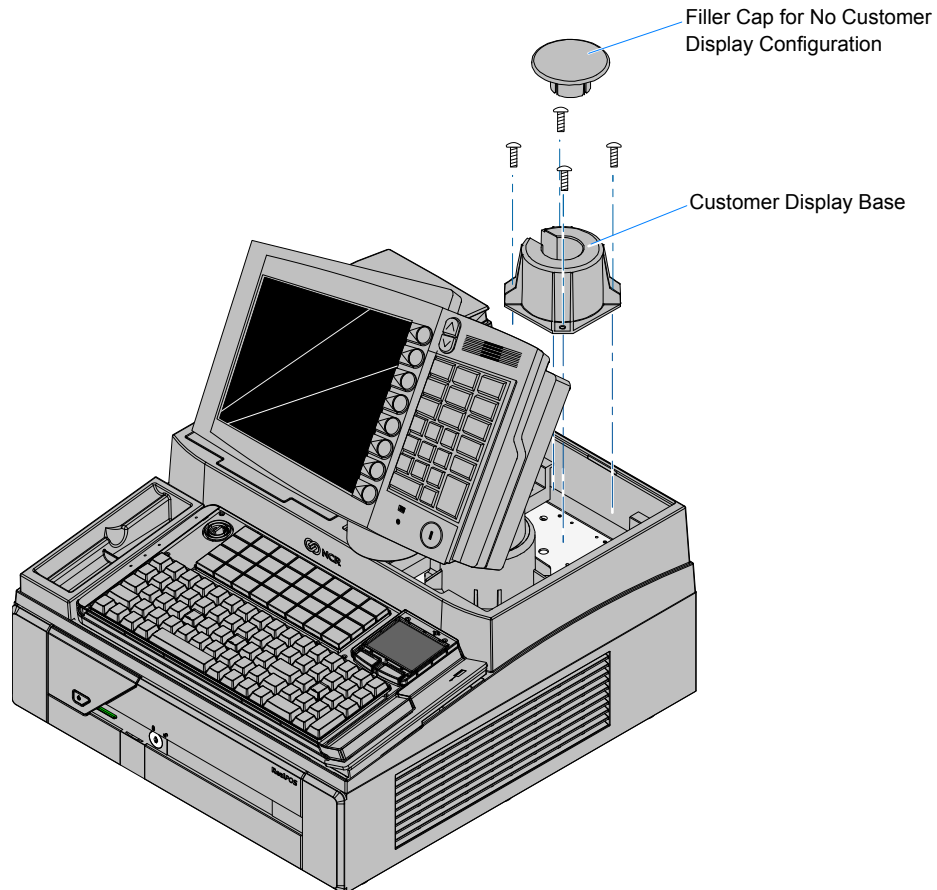(1432-C156-0040)

30664
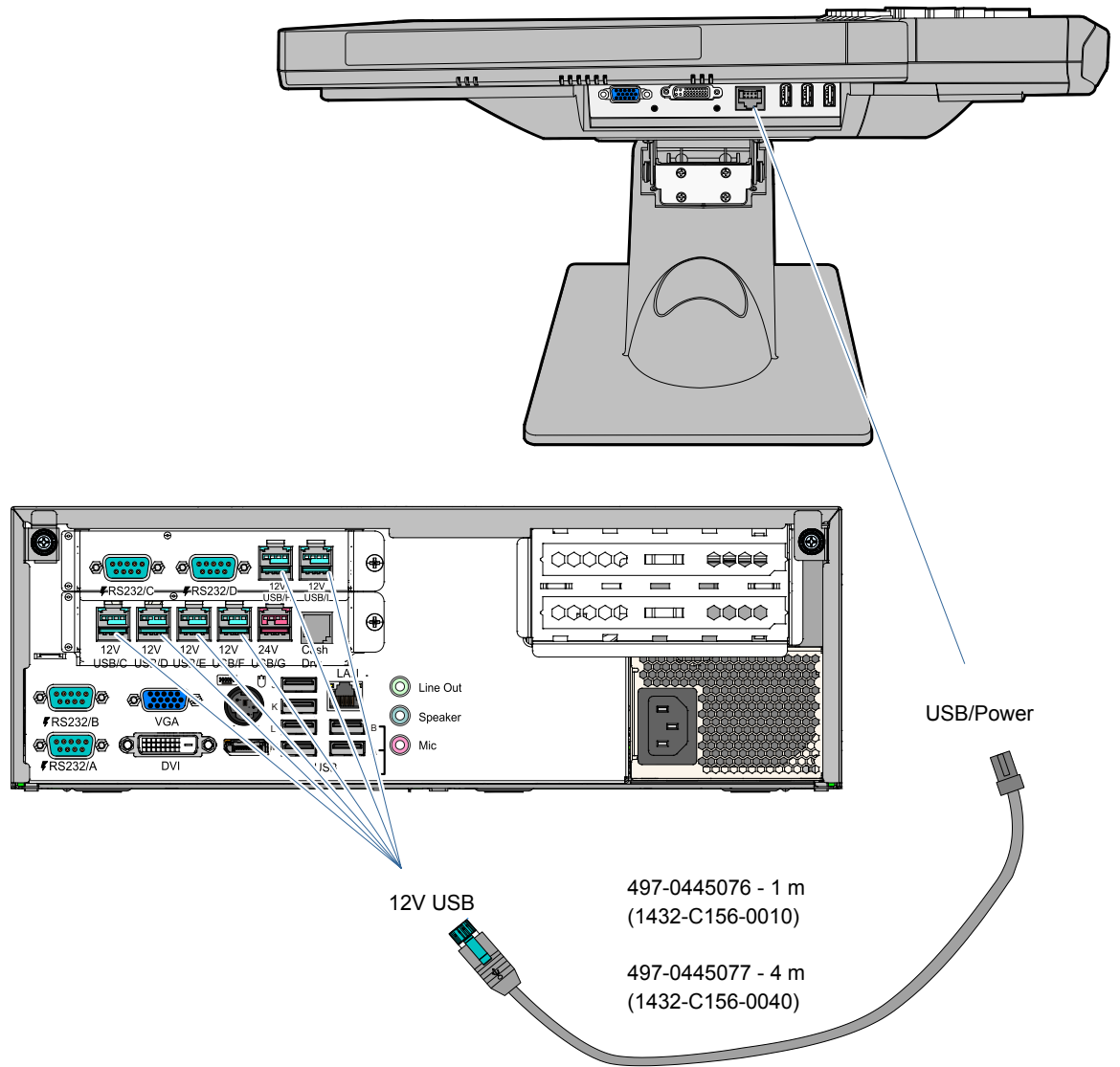
Installing an Integrated Customer Display

1. Install the Customer Display Base with screws (4). Install the post behind or in front of the Operator Display Arm.

> **Note:** A Filler Cap is available for when there is no Customer Display.

Filler Cap for No Customer Display Configuration

Customer Display Base

31276

2. Route the display cables down through the Customer Display Base and out the back of the cabinet.

3. Insert the display into the Customer Display Base.

2 x 20 Customer Display

31277
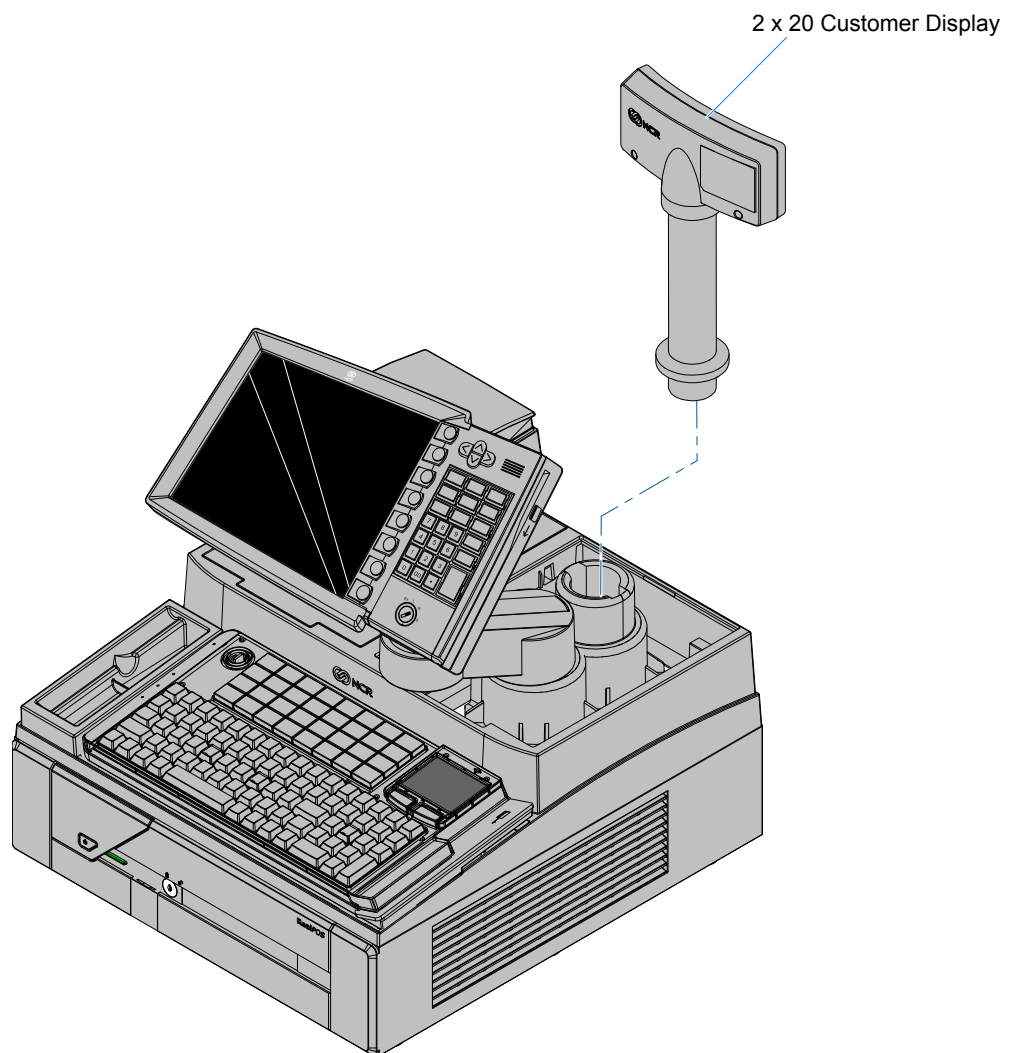
Installing the Swing Arm Skirts

Install the Left Swing Arm Skirt first. Then align the Right Swing Arm Skirt with the Left and snap it into position.

Right Swing Arm Skirt

Left Swing Arm Skirt

31278
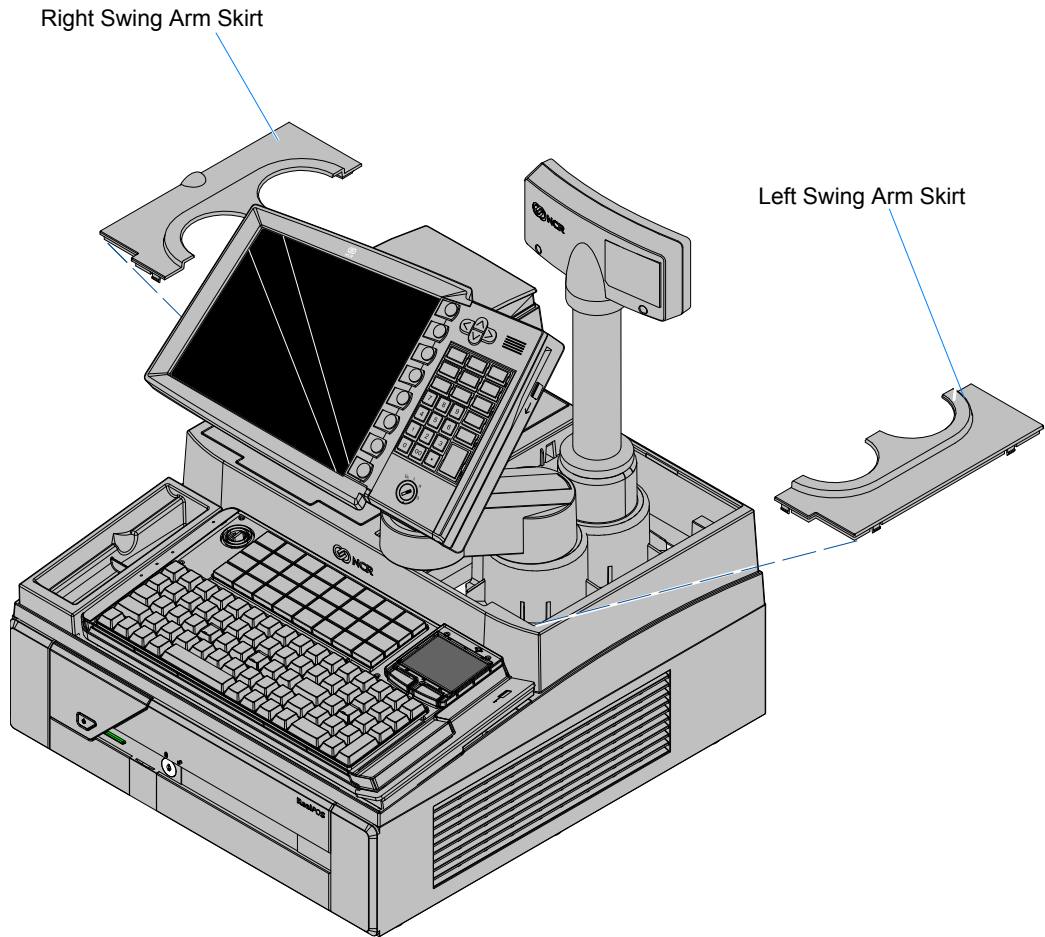
Installing the Cable Cover

1. Secure the cables to the Cabinet Bottom using cable ties looped through the anchor positions.

   Note: Note: Leave enough slack in the cables to allow the Motherboard Sled to be pulled approximately 1/3 out of the cabinet so you can add memory without disconnecting the cables.

2. Position the Cable Cover hooks over the studs on the Cabinet Extensions and snap it into position.

Cable Tie Anchor Positions
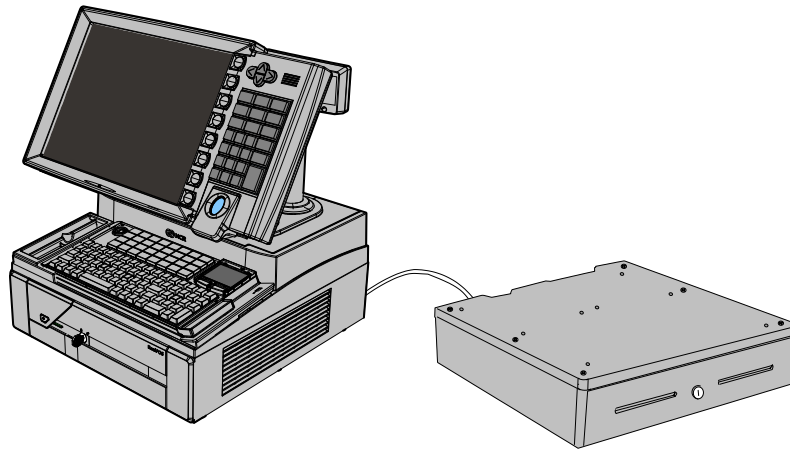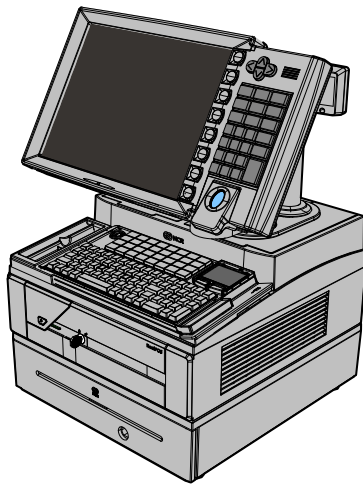
24593

Cable Cover
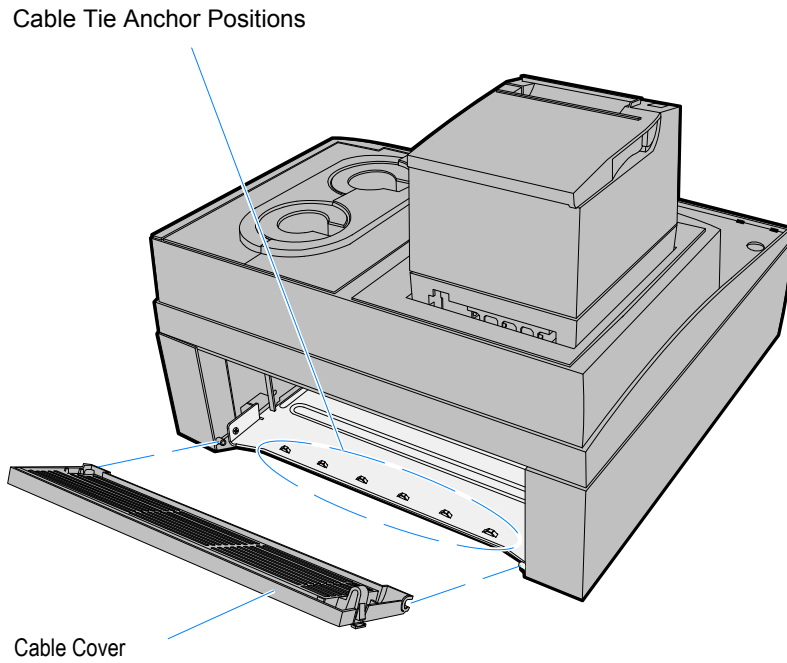
Installing a Cash Drawer

The Cash Drawer can be installed remotely or integrated with the terminal. It can be connected to the Cash Drawer connector on the terminal or to the transaction printer Cash Drawer Kickout.

Note: The NCR 2181 Cash Drawer, with its smaller footprint, is required for the integrated configuration.
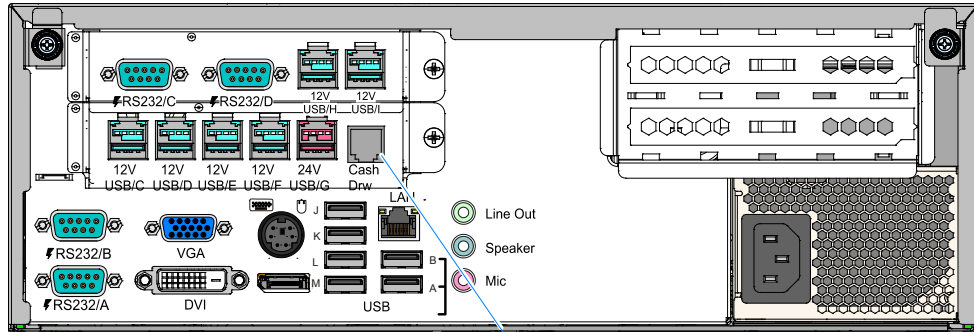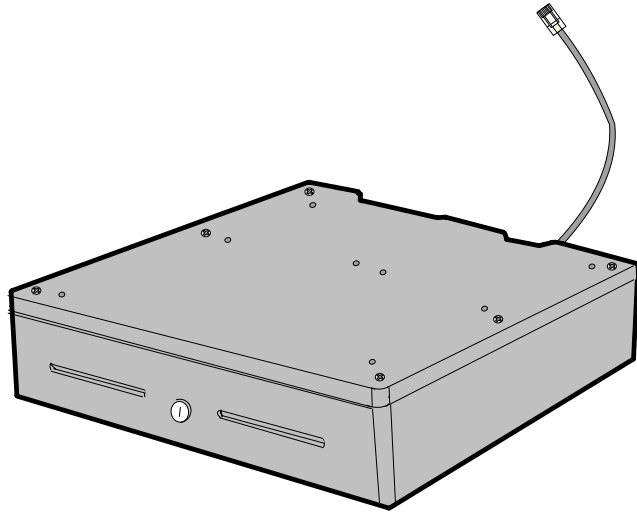
Remote Configuration

Integrated Configuration   31279
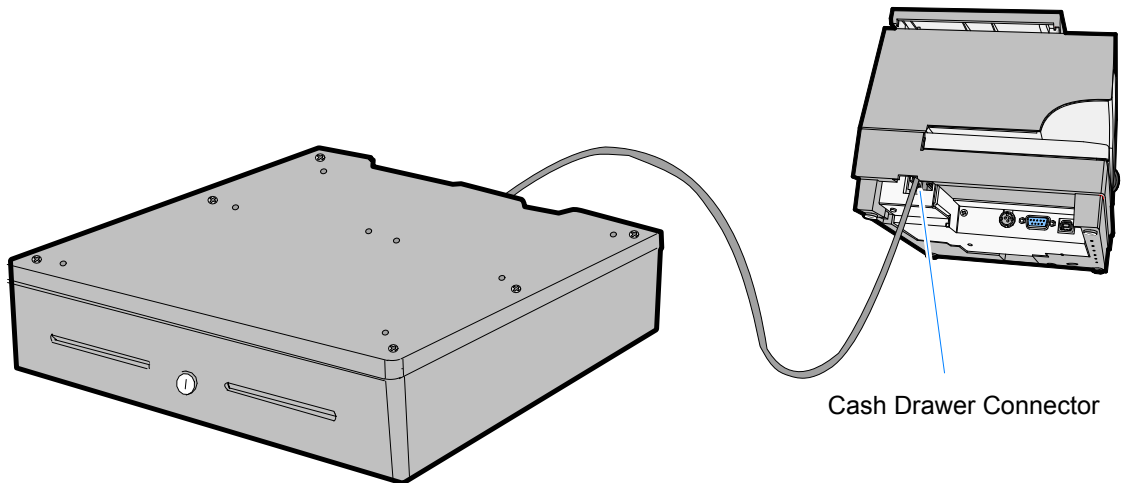
Cash Drawer Cable Connections

The Cash Drawer can be connected to the Cash Drawer connector or to the transaction printer.
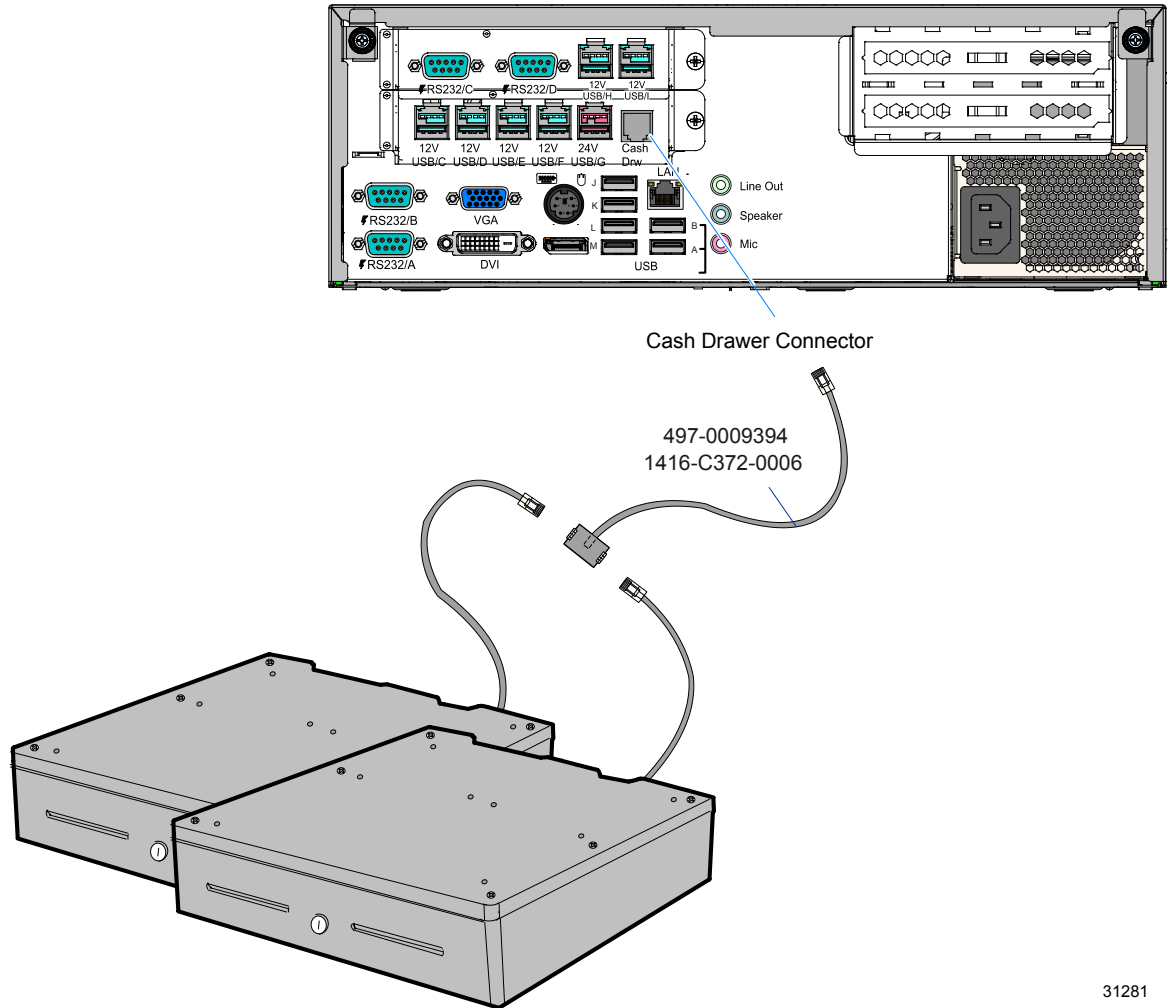
Cash Drawer Connector

31280

Cash Drawer Connector

20440

Second Cash Drawer Cable Connection

The terminal supports a 2-drawer configuration with a Y-cable

(1416-C372-0006). Connect the Y-cable to the terminal or transaction printer cash drawer
connector.

Cash Drawer Connector

497-0009394
1416-C372-0006

31281

Optional Mounting Configurations

Installing the Integration Tray on the Cash Drawer

1. Position the Tray Support Bracket on top of the Cash Drawer and secure it with screws (4).
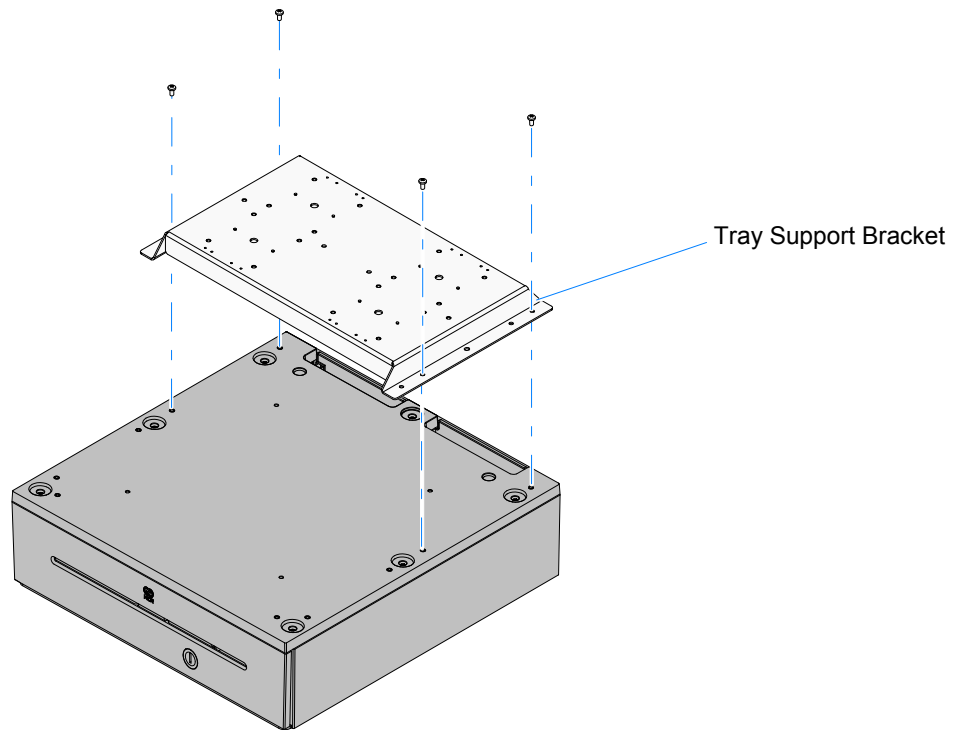
Tray Support Bracket

24614

2. Position the Integration Tray on top of the Tray Support Bracket and secure it with screws (4).
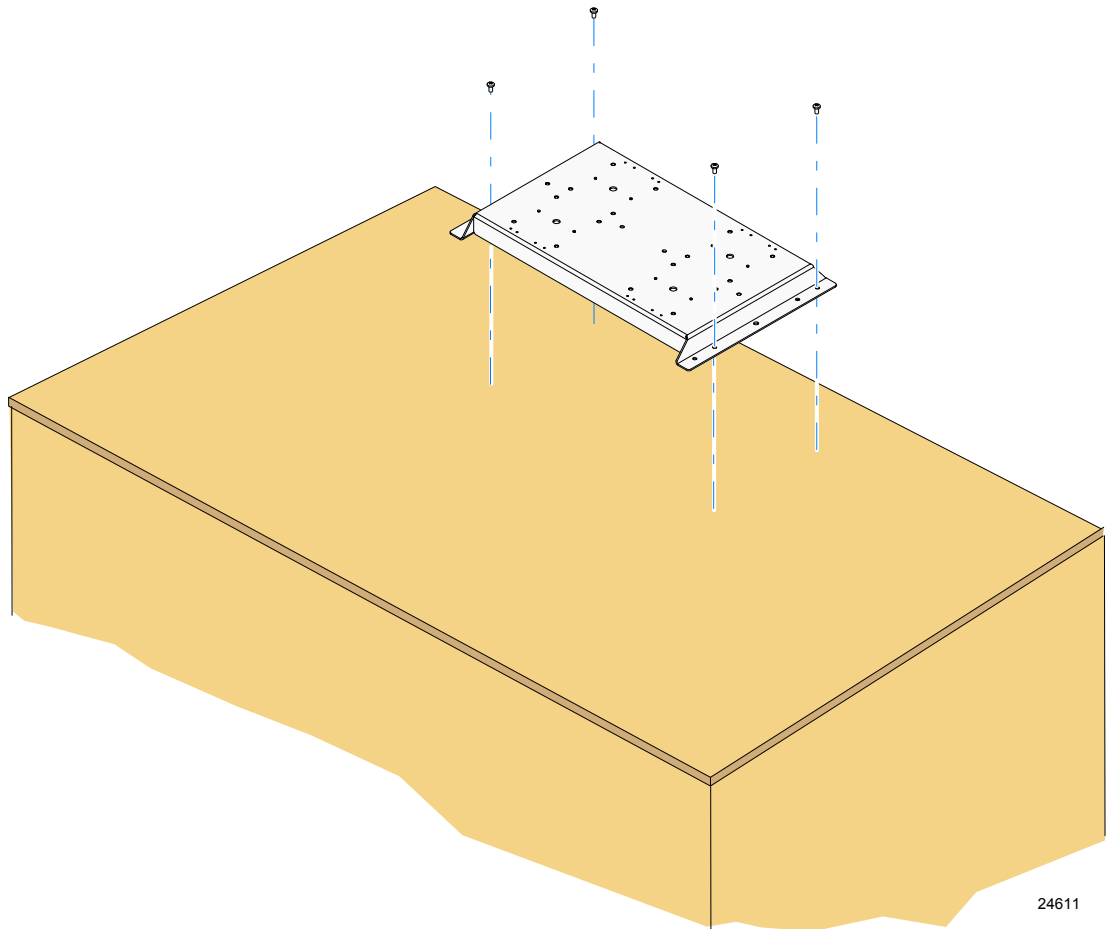
Peripheral Integration Tray
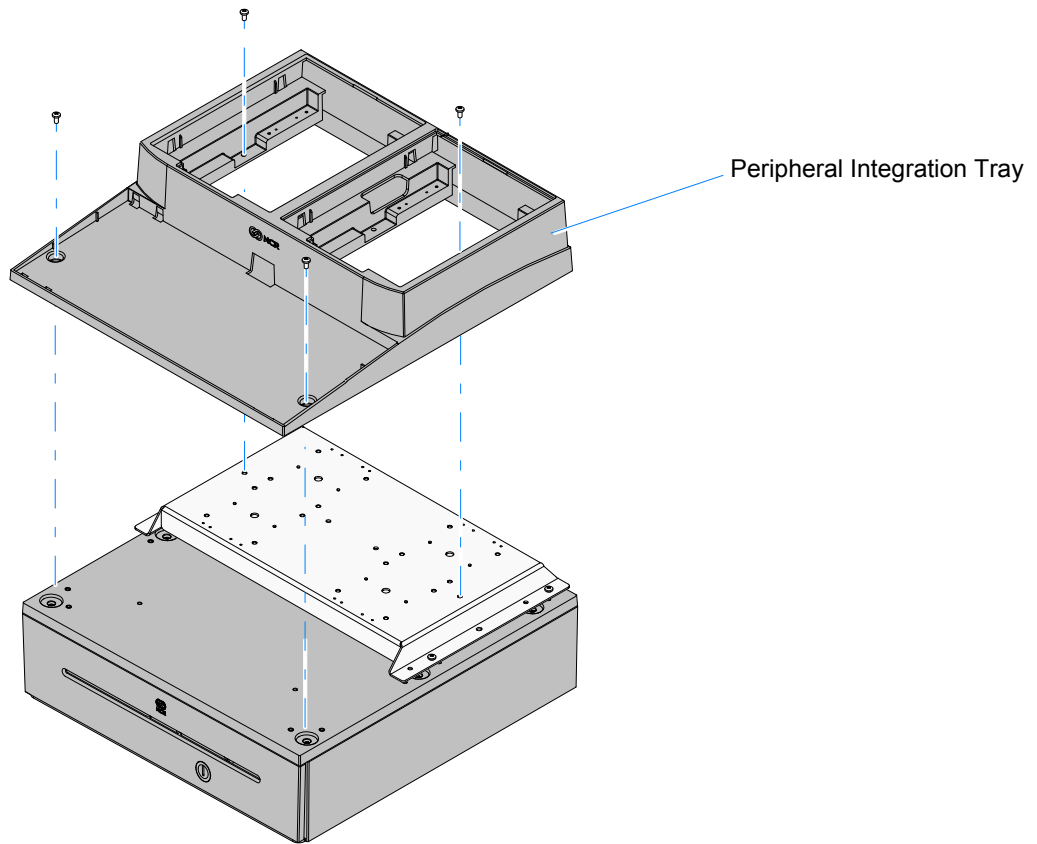
24612

3. Use the procedures in the Installation Procedures section to complete the installation.

Installing the Integration Tray on a Flat Surface

1. Position the Tray Support Bracket on mounting surface and secure it with screws (4) that are appropriate for the surface type.

24611

2. Position the Integration Tray on top of the Tray Support Bracket. Secure the tray to the Tray Support Bracket with screws (2). Secure the front of the tray to the mounting surface with screws (2) that are appropriate for the surface type.

Tray Support Bracket

24613
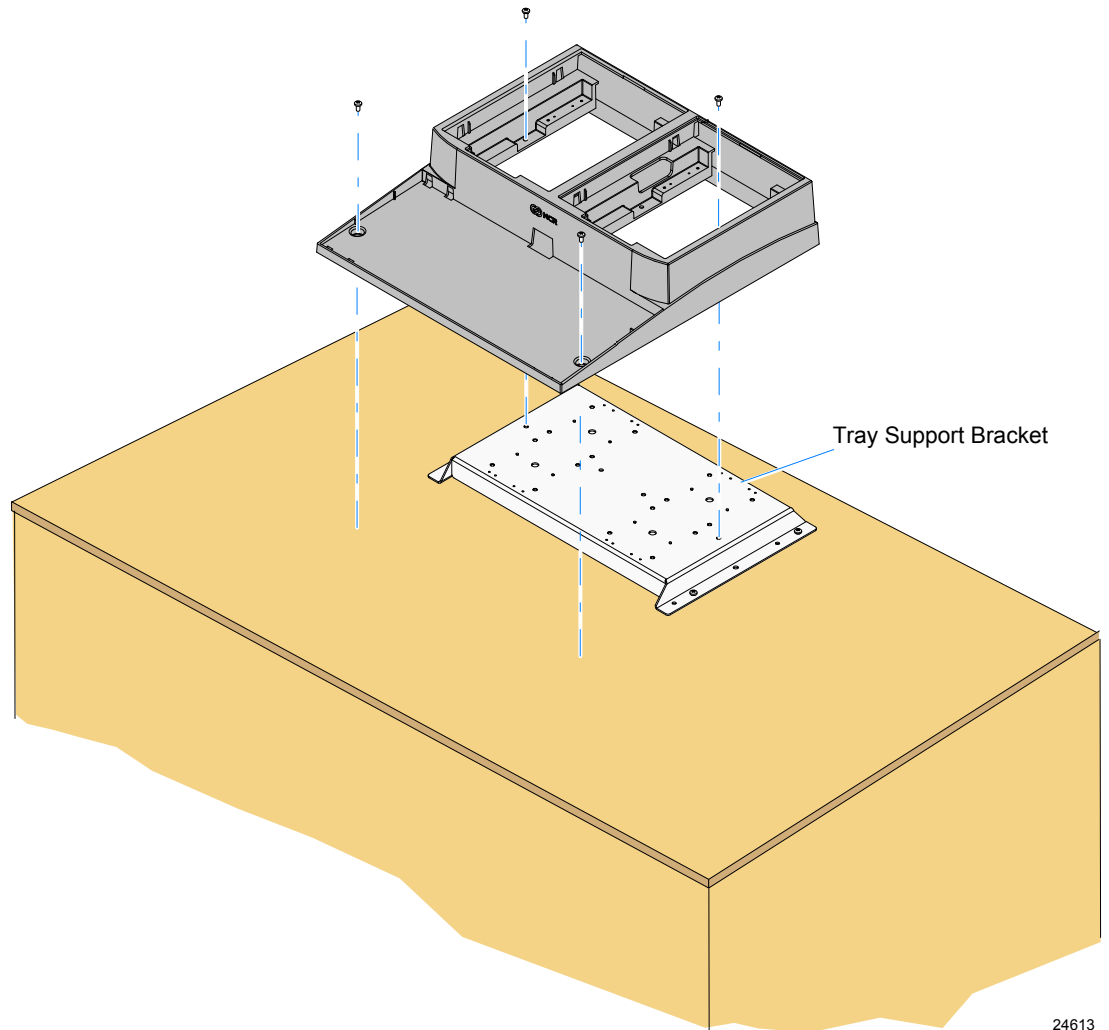
3. Use the procedure in the *Installation Procedures* section to complete the installation.