

VotingWorks  
VxScan v4.0 Work Instructions Rev A

November 14<sup>th</sup>, 2024



# VxScan V4.0

## Revision History

REVISION	DESCRIPTION	DATE	AUTHOR
A	INITIAL RELEASE	11/13/24	DBC

# VxScan V4.0

## Top Level Overview



VX~00-00001 Assembly, VxScan V4

# Bill of Materials

## Subassemblies

<b>QTY</b>	<b>Part Number</b>	<b>Description</b>
1	<b>VX~01-00002</b>	Assembly, Subpanel Bracket, Right with 24V PSU
1	<b>VX~01-00003</b>	Assembly, Subpanel Bracket, Left with Card Reader
1	<b>VX~01-00004</b>	Assembly, Subpanel Bracket, Right with 12V PSU and Printer Control
1	<b>VX~01-00005</b>	Assembly, Subpanel Bracket, Left with Latch
1	<b>VX~01-00006</b>	Assembly, Tub Component
1	<b>VX~01-00007</b>	Assembly, Panel, Pollworker with Bolt
1	<b>VX~01-00008</b>	Assembly, SBC with Bracket
1	<b>VX~01-00009</b>	Assembly, Scanner with Bracket and Infeed
1	<b>VX~01-00010</b>	Assembly, Printer with Bracket and Redirector
1	<b>VX~01-00011</b>	Assembly, Paper Roll Holder
1	<b>VX~01-00012</b>	Assembly, Paper Roll Holder Spring with Cap
1	<b>VX~01-00013</b>	Assembly, Panel, Main, Left with Hinge
1	<b>VX~01-00014</b>	Assembly, Panel, Printer Access
1	<b>VX~01-00015</b>	Assembly, Lid
1	<b>VX~01-00016</b>	Assembly, Touch Display with Bracket
1	<b>VX~01-00017</b>	Assembly, Mounting Bracket, SBC
1	<b>VX~01-00018</b>	Assembly, MCM Case
1	<b>VX~01-00087</b>	Assembly, Subframe, USB Latch Card

# Bill of Materials (continued)

## Manufactured Parts

QTY	Part Number	Description	Process
1	VX~02-00019	Foot	Injection Mold/CNC
1	VX~02-00020	Subpanel Plate	Sheet Metal
1	VX~02-00021	Latch Arm	Injection Mold/CNC
1	VX~02-00022	Retention Bracket, USB Cable	Sheet Metal
1	VX~02-00023	Mounting Plate, SBC	Sheet Metal
1	VX~02-00024	Retention Bracket, SBC	Sheet Metal
1	VX~02-00025	Subpanel Bracket, Right, Exterior	Sheet Metal
1	VX~02-00026	Subpanel Bracket, Right, Interior	Sheet Metal
1	VX~02-00027	Subpanel Bracket, Left, Interior	Sheet Metal
1	VX~02-00028	Subpanel Bracket, Left, Exterior	Sheet Metal
1	VX~02-00029	Card Reader Mount	Injection Mold/CNC
2	VX~02-00030	Hinge Spacer Clamp	Injection Mold/CNC
1	VX~02-00031	Panel, Pollworker	Sheet Metal
1	VX~02-00032	Bracket, Slide Bolt	Sheet Metal
1	VX~02-00033	Slide Bolt	CNC
1	VX~02-00034	Slide Bolt Shroud	Injection Mold/CNC
1	VX~02-00035	Ballot Redirector, Rear	Injection Mold/CNC
1	VX~02-00036	Ballot Redirector, Front	Injection Mold/CNC
1	VX~02-00037	Bracket, Printer	Sheet Metal
2	VX~02-00038	Cable Wrap Shim	Injection Mold/CNC
1	VX~02-00039	Bracket, Scanner Mount	Sheet Metal
1	VX~02-00040	Infeed Tray, Top	Injection Mold/CNC
2	VX~02-00041	Mount, Infeed Tray, Top	Injection Mold/CNC
1	VX~02-00042	Paper Roll Holder, Left	Injection Mold/CNC
1	VX~02-00043	Paper Roll Holder, Right	Injection Mold/CNC
1	VX~02-00044	Platen and Roll Holder, Top	Injection Mold/CNC
1	VX~02-00045	Tear Bar, Serrated	Injection Mold/CNC

QTY	Part Number	Description	Process
1	VX~02-00046	Roll Holder Spring Cap	Injection Mold/CNC
1	VX~02-00047	Spring, Roll Holder	Sheet Metal
1	VX~02-00048	Display Cable Guide	Injection Mold/CNC
1	VX~02-00049	Panel, Main, Left	Sheet Metal
1	VX~02-00050	Panel, Pollworker Access	Sheet Metal
1	VX~02-00051	Panel, Main, Right	Sheet Metal
1	VX~02-00052	Panel, Printer	Sheet Metal
1	VX~02-00053	Panel, Printer, Stiffener	Sheet Metal
1	VX~02-00054	Infeed Tray, Bottom	Injection Mold/CNC
1	VX~02-00055	Lockout Back	Injection Mold/CNC
1	VX~02-00056	Lockout Slider	Stamp/Die-Cut
2	VX~02-00057	Base Subpanel Shim	Sheet Metal
1	VX~02-00058	Bracket, Lid Display	Sheet Metal
2	VX~02-00059	Foam, Display Back	Stamp/Die-Cut
1	VX~02-00060	Panel, Lid	Sheet Metal
1	VX~02-00061	Display Cable Conduit, Lid	Make to Stock
1	VX~02-00062	Lockout, Flex	Stamp/Die-Cut
2	VX~02-00063	Attachment Plate, Lid	Sheet Metal
2	VX~02-00064	Display Bracket Mount, Lid	Injection Mold/CNC
1	VX~02-00065	Power Cord Wrap	Injection Mold/CNC
1	VX~02-00066	Guard, High Voltage	Stamp/Die-Cut
1	VX~02-00067	Nameplate, Lid	Sheet Metal
1	VX~02-00084	Paddle, Platen Release	Injection Mold/CNC
1	VX~02-00090	VHB, Display, Long	Cut to Length
1	VX~02-00091	VHB, Display, Short	Cut to Length
1	VX~02-00092	Flexible Cable Conduit	Cut to Length
1	VX~02-00093	Label, Poll Worker Door	Label

# Bill of Material (Continued)

Custom cables

QTY	Part Number	Description
1	<b>VX~02-00069</b>	Cable, Power Entry Stage 1, Module Jumper
1	<b>VX~02-00070</b>	Cable, Power Entry Stage 2, Jumper Harness
1	<b>VX~02-00071</b>	Cable, Lid Ground Strap
1	<b>VX~02-00072</b>	Cable, Power Supply Ground
1	<b>VX~02-00073</b>	Cable, Scanner Ground
1	<b>VX~02-00074</b>	Cable, Ground Daisy Chain
1	<b>VX~02-00075</b>	Cable, Hot Daisy Chain
1	<b>VX~02-00076</b>	Cable, Neutral Daisy Chain
1	<b>VX~02-00077</b>	Cable, Scanner Power, 24V
1	<b>VX~02-00078</b>	Cable, Printer Power, 24V
1	<b>VX~02-00079</b>	Cable, SBC Power, 12V
1	<b>VX~02-00080</b>	Cable, SBC to Card Reader and Printer
1	<b>FTP-62EY001-R</b>	Cable, Internal Printer, 34-pos
1	<b>VX~02-00082</b>	Cable Assembly, 15.6" Display to Speaker
1	<b>VX~02-00083</b>	Cable, Printer Panel Ground Strap

# Bill of Materials

## COTS Components

QTY	Part Number	Description
1	<b>ELO~E976783</b>	ELO Touch Display, 15.6", E976783
1	<b>PELICAN~014850-0001-110</b>	Pelican Air Case 1485, Black, 014850-0001-110
1	<b>PUI~AS07004PO-R</b>	PUI Speaker, 40HM, 86DB, AS07004PO-R
1	<b>COOLGEAR~CG-3510S4</b>	Coolgear USB3.1 4-Port Hub
1	<b>FUJITSU~FTP-62EDSL201-R</b>	Fujitsu Printer Control Board
1	<b>MEANWELL~LRS-150-24</b>	Mean Well 24V Power Supply
1	<b>MEANWELL~LRS-75-12</b>	Mean Well 12V Power Supply
1	<b>HID~R31210320</b>	HID Omnikey Card Reader
2	<b>TRIP-LITE~U324-001-APM</b>	Trip-Light Panel Mount USB Connector
1	<b>AAEON~UPN-ADLN97-A10-0864</b>	AAEON UP 7000 Squared Dev Board
1	<b>FUJITSU~FTP68E-HEAD</b>	Fujitsu Printer Print Head
1	<b>FUJITSU~FTP68E-PLATEN</b>	Fujitsu Printer Print Platen
1	<b>PDI~PS6</b>	Peripheral Dynamics Page Scan 6
1	<b>USB-FIREWIRE~RR-ADBU-10GR</b>	USB Firewire SBC to Hub, Down A, Up B Cable
1	<b>GLOBTEK~USBCW1M0USBC2SLEMBK</b>	Globtek USB C SBC to Display Cable, Screw lock Left
6	<b>ESSENTRA~167204069902</b>	Push-In Rivet, Nylon, Black
1	<b>L-COM~CAABLK-90RB-05M</b>	USB 3.0 HUB to Scanner, USB 2.0 A to B Cable
1	<b>ADATA~IM2P32A8-128GCTB5</b>	Solid State Drive (SSD) FLASH - NAND (TLC) 128GB NVMe M.2 Module 3.3V

# Subassembly Instructions

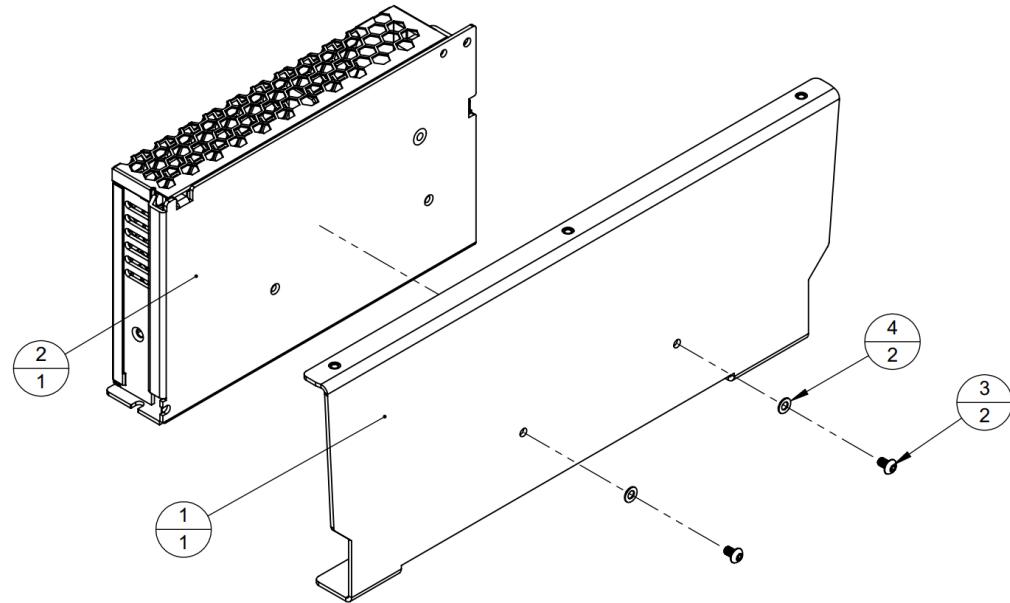
VX~01-00002, Assembly, Subpanel Bracket,  
Right with 24V PSU

# VX~01-00002

## Assembly, Subpanel Bracket, Right with 24V PSU

### Tools/Supplies Required:

- 2mm Hex Driver
- Loctite 425 Thread-Locking Adhesive

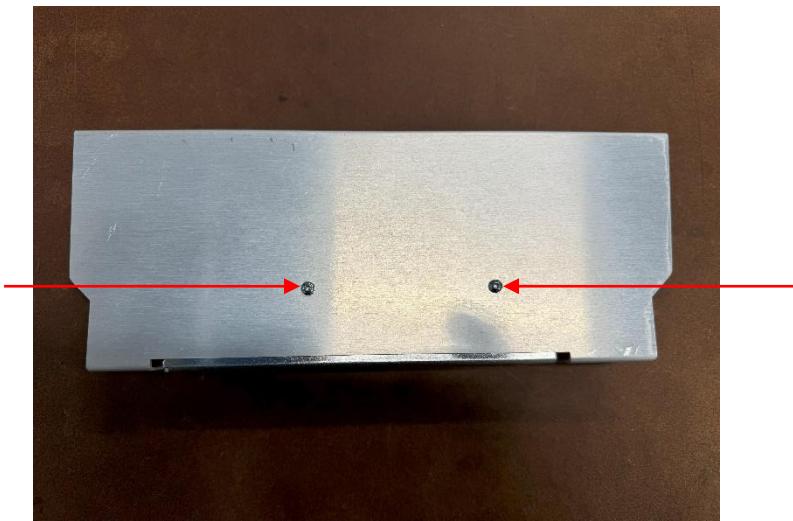


### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
4	2	VX-99-00131	WASHER, M3, ZINC-PLATED STEEL
3	2	VX-99-00120	M3x0.5Px5L, BHCS, ZINC-PLATED STEEL
2	1	MEANWELL~LRS-150-24	POWER SUPPLY, 24V, 150W
1	1	VX-02-00025	SUBPANEL BRACKET, RIGHT, EXTERIOR

# VX~01-00002

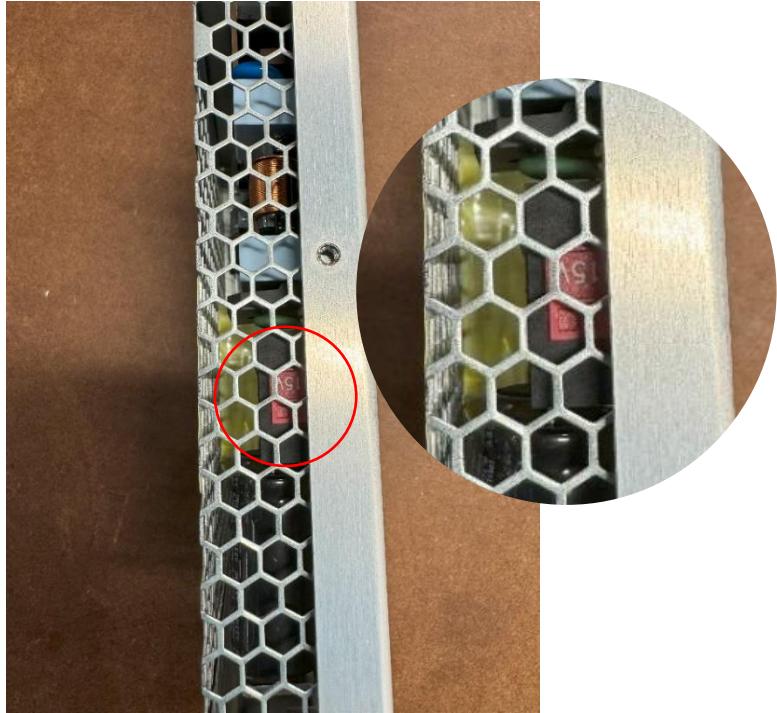
Assembly, Subpanel Bracket, Right with 24V PSU



## Step 1:

Align 24V Power Supply (MEANWELL~LRS-150-24) mounting holes with holes in Right, Exterior Subpanel Bracket (VX~02-00025).

Fasten using 2x M3x0.5x5 BHCS (VX~99-00120) and 2x M3 Washers (VX~99-00131). Apply Loctite 425 to screw threads.



## Step 2:

Adjust input selection voltage to 115VAC.

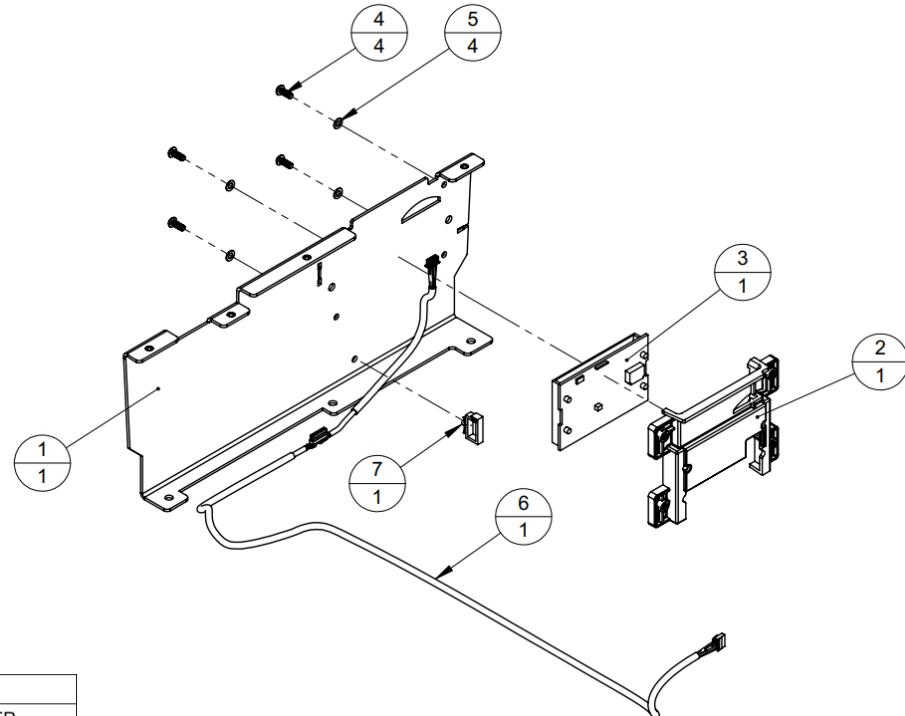
VX~01-00003, Assembly, Subpanel Bracket, Left  
with Card Reader

# VX~01-00003

## Assembly, Subpanel Bracket, Left with Card Reader

### Tools/Supplies Required:

- 2mm Hex Driver
- Loctite 425 Thread-Locking Adhesive
- Acetate Cloth Electrical Tape



### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
7	1	ESSENTRA-WSLC-6-01	CABLE CLIP, ARROWHEAD
6	1	VX~02-00080	CABLE, SBC TO CARD READER AND PRINTER
5	4	VX~99-00131	WASHER, M3, ZINC-PLATED STEEL
4	4	VX~99-00121	M3X0.5PX8L, BHCS, ZINC-PLATED STEEL
3	1	HID-R31210320	HID OMNIKEY CARD READER
2	1	VX~02-00029	CARD READER MOUNT
1	1	VX~02-00028	SUBPANEL BRACKET, LEFT, EXTERIOR

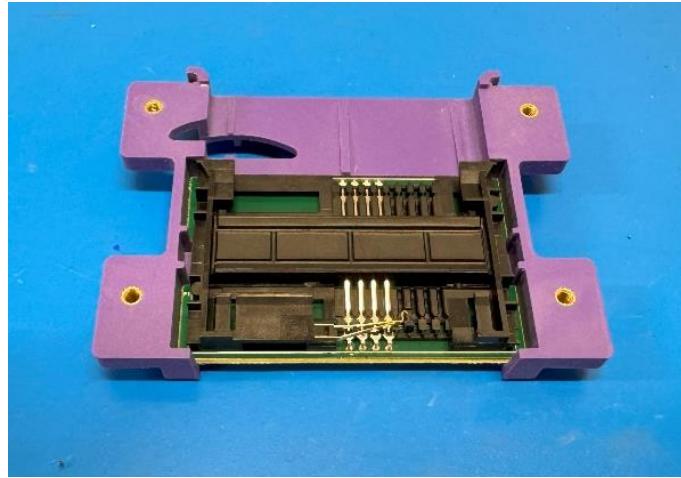
# VX~01-00003

## Assembly, Subpanel Bracket, Left with Card Reader



### Step 1:

Remove cable from HID Card Reader (HID~R3120320) and discard.

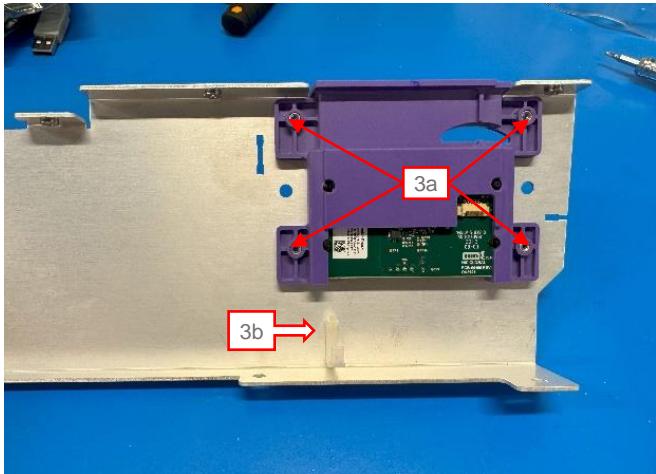


### Step 2:

Place HID Card Reader into Card Reader Mount (VX~02-00029) as indicated.

# VX~01-00003

## Assembly, Subpanel Bracket, Left with Card Reader



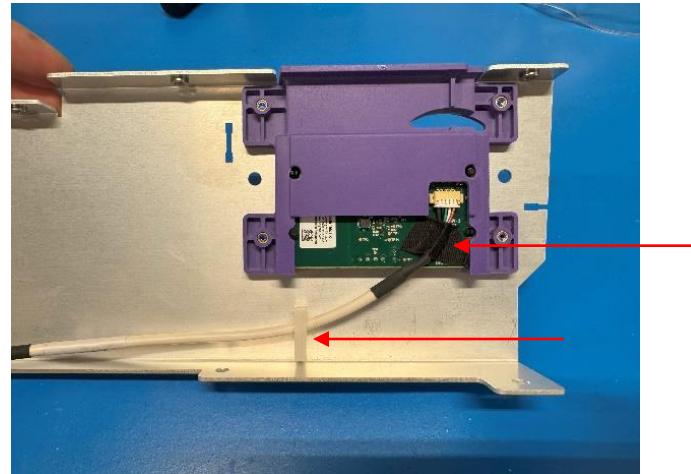
Step 3a:

Align Card Reader with Mount to Left Exterior Bracket (VX~02-00028) as indicated.

Fasten using 4x M3x0.5x8 BHCS (VX~99-00121) and 4x M3 Washers (VX~99-00131). Apply Loctite 425 to screw threads.

Step 3b:

Press in Cable Clip (ESSENTRA~WSLC-6-01)



Step 4:

Route SBC-to-Card-Reader Cable (VX~02-00080) through Cable Clip and tape cable to PCB for strain relief.

Apply cloth electrical tape as indicated.

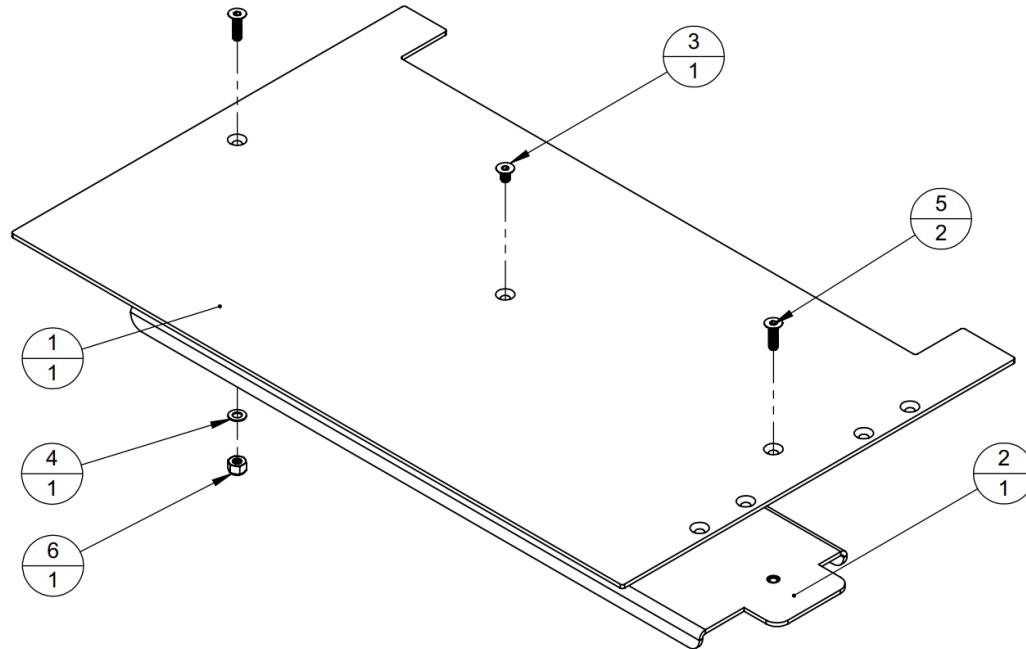
# VX~01-000014 Assembly, Panel, Printer Access

# VX~01-000014

## Assembly, Panel, Printer Access

### Tools/Supplies Required:

- 2mm Hex Driver
- 5.5mm Combination Wrench
- Loctite 425 Thread-Locking Adhesive

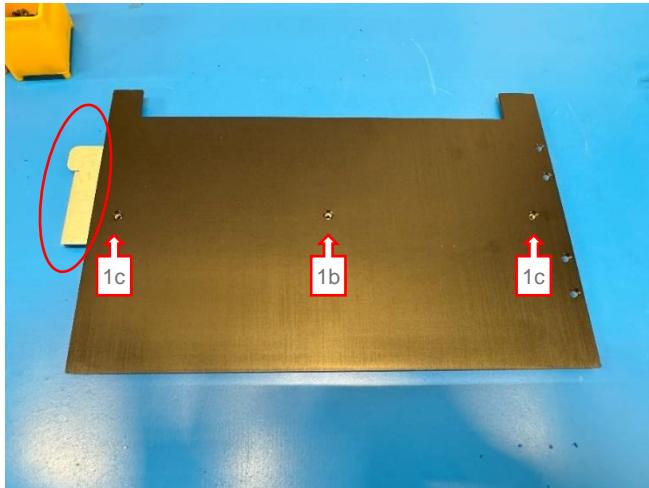


### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
6	1	VX~99-00107	NUT, M3X0.5P, NYLOCK, ZINC-PLATED STEEL
5	2	VX~99-00119	M3X0.5PX10L, FHCS, 90°, BLACK-OXIDE STEEL
4	1	VX~99-00131	WASHER, M3, ZINC-PLATED STEEL
3	1	VX~99-00117	M3x0.5Px5L, FHCS, 90°, BLACK OXIDE STEEL
2	1	VX~02-00053	PANEL, PRINTER, STIFFENER
1	1	VX~02-00052	PANEL, PRINTER
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION

# VX~01-000014

## Assembly, Panel, Printer Access



Step 1a:

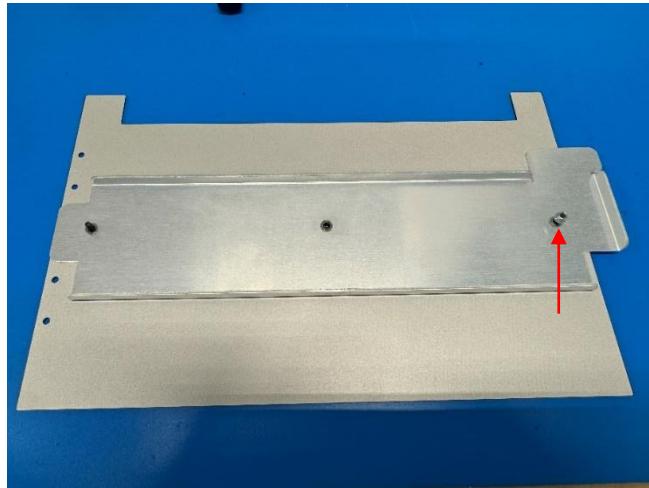
Align mounting holes of Printer Panel (VX~02-00052) to mounting holes of Printer Panel Stiffener (VX~02-00053) as shown. Ensure Stiffener is oriented so that access tab is leftward.

Step 1b:

Fasten 1x M3x0.5x5 FHCS (VX~99-00117). Apply Loctite 425 to screw threads.

Step 1c:

Fasten 2x M3x0.5x10 FHCS (VX~99-00119). Apply Loctite 425 to screw threads.



Step 2:

Fasten via M3x0.5 Locknut (VX~99-00107) and M3 Washer (VX~00131).

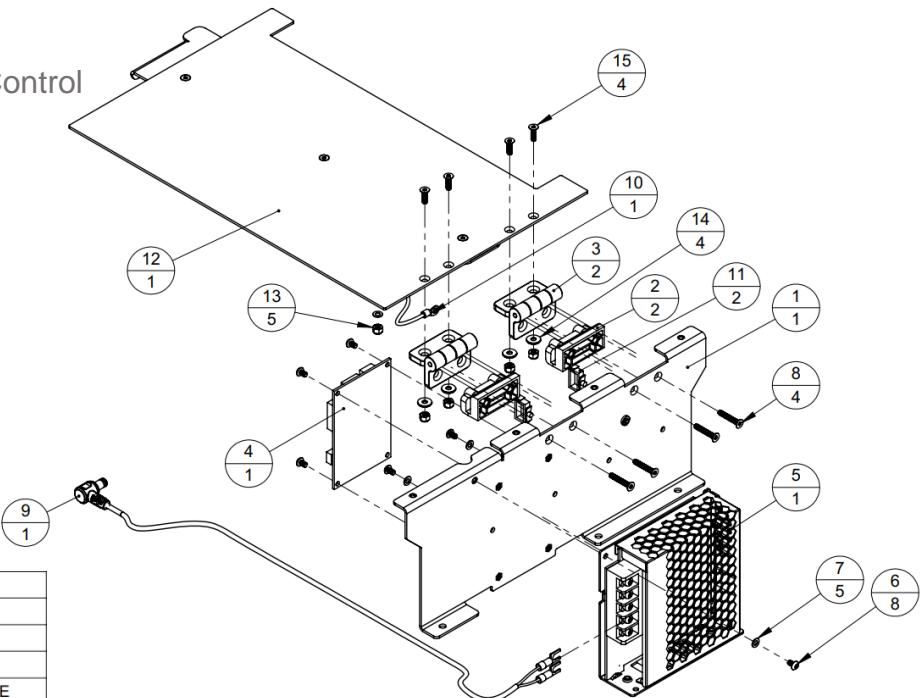
VX~01-00004, Assembly, Subpanel Bracket,  
Right with 12V PSU and Printer Control

# VX~01-00004

## Assembly, Subpanel Bracket, Right with 12V PSU and Printer Control

### Tools/Supplies Required:

- 2mm Hex Driver
- 5.5mm Combination Wrench
- Phillips PH2 Screwdriver
- Loctite 425 Thread-Locking Adhesive

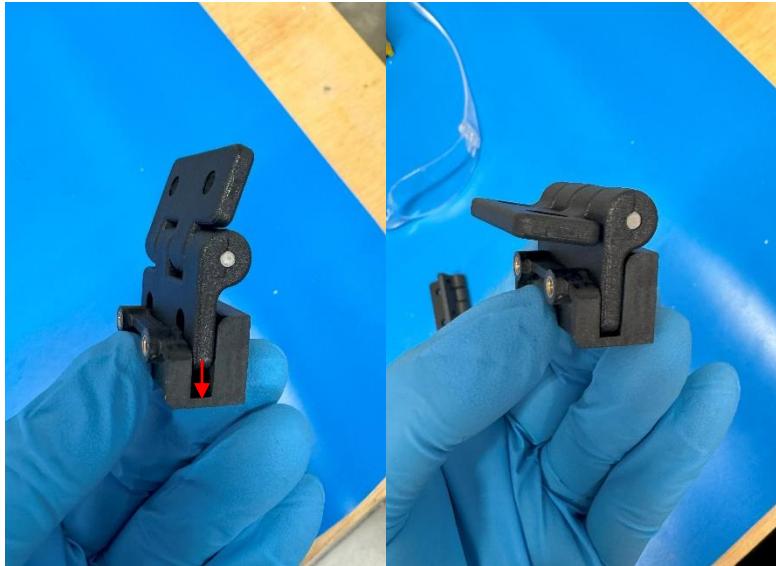


### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
15	4	VX~99-00119	M3x0.5Px10L, FHCS, 90°, BLACK-OXIDE STEEL
14	4	VX~99-00111	WASHER, OVERSIZED, M3, 9MM OD, ZINC-PLATED STEEL
13	5	VX~99-00107	NUT, M3x0.5P, NYLOCK, ZINC-PLATED STEEL
12	1	VX~01-00014	ASSEMBLY, PANEL, PRINTER ACCESS
11	2	ESSENTRA-WSLC-6-01	CABLE CLIP, WIRE SADLE, HINGED TOP LOCK, 3.51MM HOLE
10	1	VX~02-00083	CABLE, PRINTER PANEL GROUND STRAP
9	1	VX~02-00079	CABLE, SBC POWER, 12V
8	4	VX~99-00116	M3x0.5Px18L, FHCS, 90°, ZINC-PLATED STEEL
7	5	VX~99-00131	WASHER, M3, ZINC-PLATED STEEL
6	8	VX~99-00120	M3x0.5Px5L, BHCS, ZINC-PLATED STEEL
5	1	MEANWELL-LRS-75-12	12V, 75W POWER SUPPLY
4	1	FUJITSU-FTP-62EDSL201-R	FUJITSU PRINTER CONTROLLER BOARD
3	2	VX~99-00105	HINGE, SCREW ON, 1-1/2"H x 13/16"W LEAF, NYLON
2	2	VX~02-00030	HINGE SPACER CLAMP
1	1	VX~02-00026	SUBPANEL BRACKET, RIGHT, INTERIOR

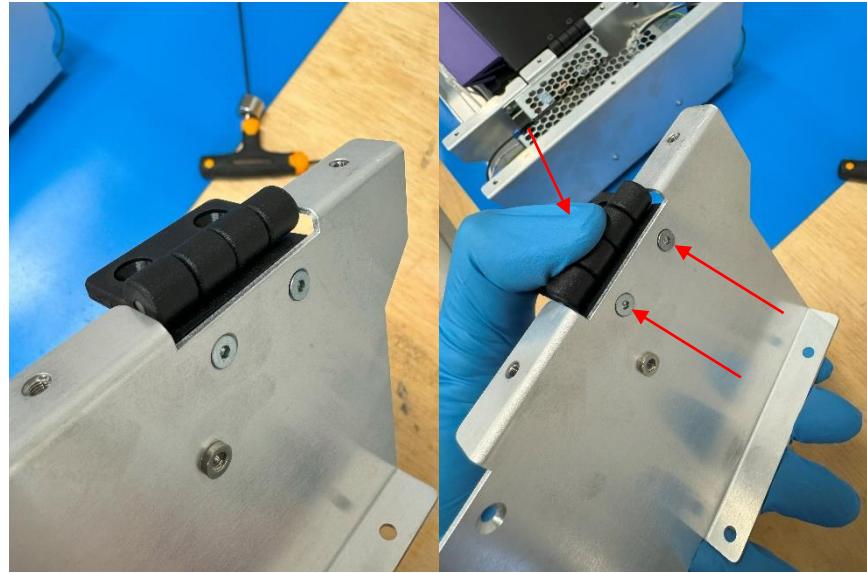
# VX~01-00004

Assembly, Subpanel Bracket, Right with 12V PSU and Printer Control



Step 1:

Insert 2x Hinge (VX-99-00105) into 2x Hinge Spacer Clamp (VX-02-00030) until hinge is fully seated into clamp.



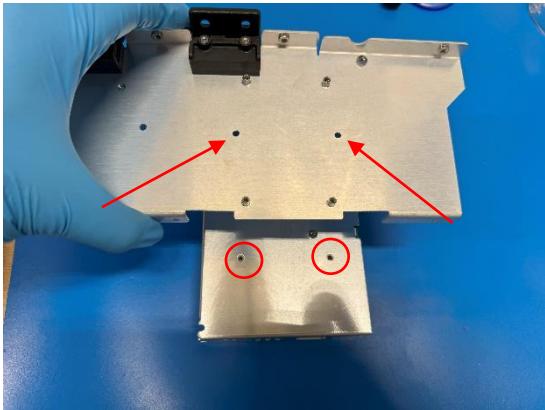
Step 2:

While applying downward force on the Hinge, fasten the Hinge Spacer Clamp to the Right Interior Subpanel Bracket (VX-02-00026) via 2x M3x0.5x18 FHCS (VX-99-00116). Apply Loctite 425 to screw threads.

Repeat for remaining Hinge and Hinge Clamp.

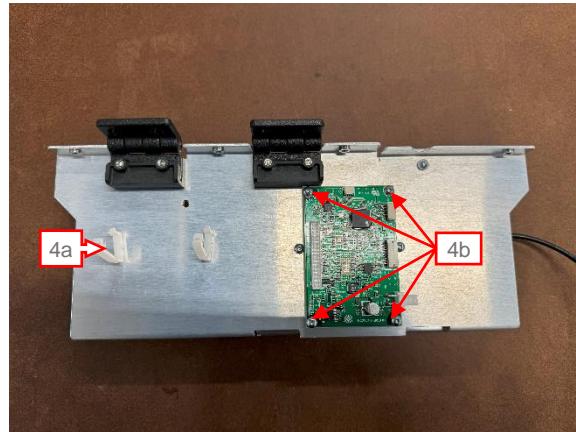
# VX~01-00004

## Assembly, Subpanel Bracket, Right with 12V PSU and Printer Control



Step 3:

Align 12V Power Supply (MEANWELL~LRS-75-12) mounting holes with Right Interior Subpanel Bracket and fasten via 2x M3x0.5x5 BHCS (VX~99-00120) and 2x M3 Washers (VX~99-00131). Apply Loctite 425 to screw threads.

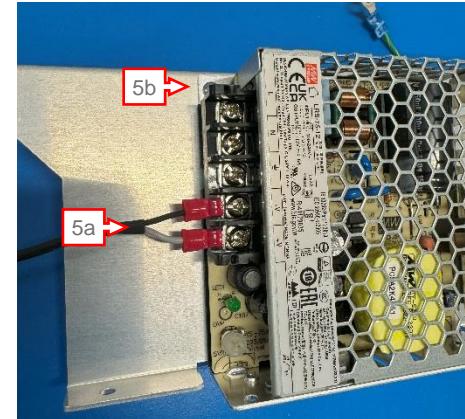


Step 4a:

Press in 2x Cable Clip (ESSENTRA~WSLC-6-01).

Step 4b:

Align Printer Controller Board (FUJITSU~FTP-62EDSL201-R) mounting holes with standoffs and fasten via 4x M3x0.5x5 BHCS (VX~99-00120) and 4x M3 Washers (VX~99-00131).



Step 5a:

Loosen screw terminals on 12V Power Supply. Connect SBC Power Cable (VX~02-00079) to Power Supply as indicated:

- V: Black Wire
- +V: Red Wire

Tighten screw Output Screw Terminals.

Step 5b:

Fasten M3x0.5x5 BHCS (VX~99-00120) and M3 Washer (VX~99-00131). Apply Loctite 425 to screw threads.

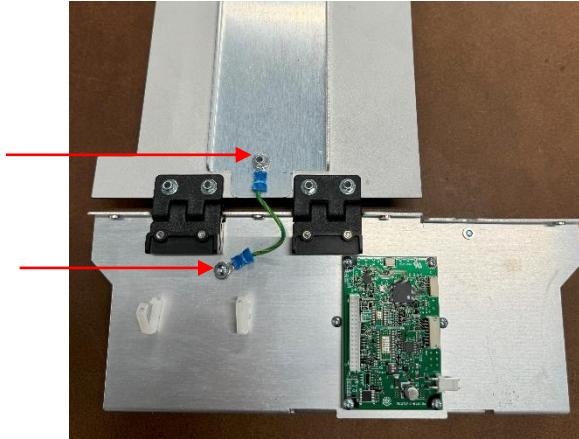
# VX~01-00004

## Assembly, Subpanel Bracket, Right with 12V PSU and Printer Control



Step 6:

Secure Printer Access Panel Assembly (VX~01-00014) to Hinges by hand-tightening 4x M3x0.5x10 FHCS (VX~99-00119), 4x M3 Oversized Washers (VX~99-00111) and 4x M3X0.5 Lock Nuts (VX~99-00107). Apply Loctite 425 to screw threads.



Step 7:

Mount Printer Panel Ground Cable (VX~02-00083) to Bracket and Panel Stiffener via 1x M3x0.5x5 BHCS (VX~99-00120), 2x M3 Washers (VX~99-00131) and 1x M3X0.5 Lock Nuts (VX~99-00107). Apply Loctite 425 to screw threads.

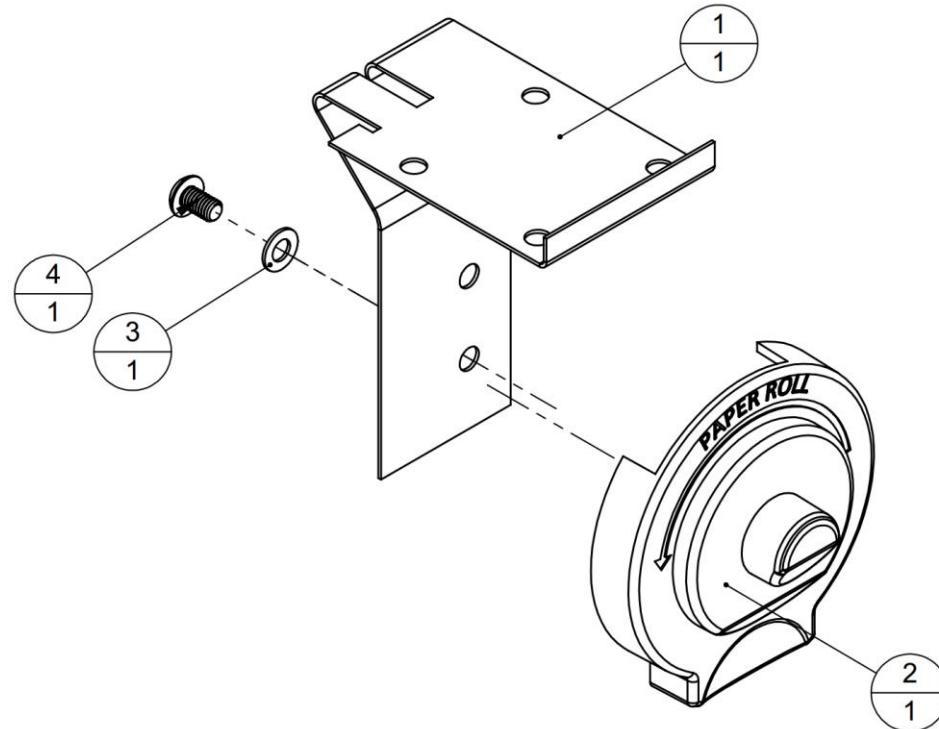
VX~01-00012 Assembly, Paper Roll Holder  
Spring with Cap

# VX~01-00012

## Assembly, Paper Roll Holder Spring with Cap

### Tools/Supplies Required:

- 2mm Hex Driver
- Loctite 425 Thread-Locking Adhesive

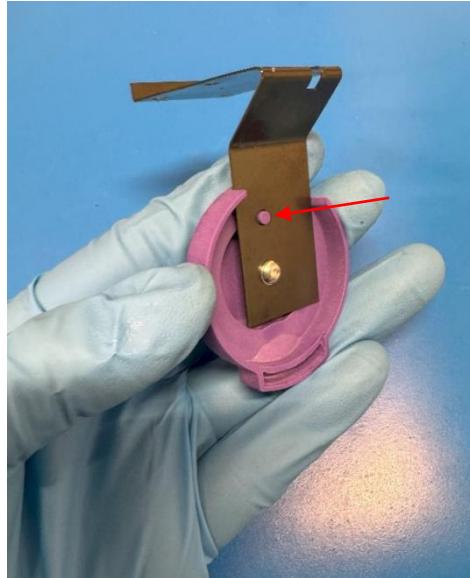


### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
4	1	VX~99-00120	M3x0.5Px5L, BHCS, ZINC-PLATED STEEL
3	1	VX~99-00131	WASHER, M3, ZINC-PLATED STEEL
2	1	VX~02-00046	ROLL HOLDER, SPRING CAP
1	1	VX~02-00047	SPRING, ROLL HOLDER

# VX~01-00012

Assembly, Paper Roll Holder Spring with Cap



Step 1:

Align mounting hole in Roll Holder Spring (VX-02-00047) with alignment boss in Roll Holder Spring Cap (VX-02-00046) and fasten via M3x0.5x5 BHCS (VX-99-00120) and M3 Washer (VX-99-00131). Apply Loctite 425 to screw threads.

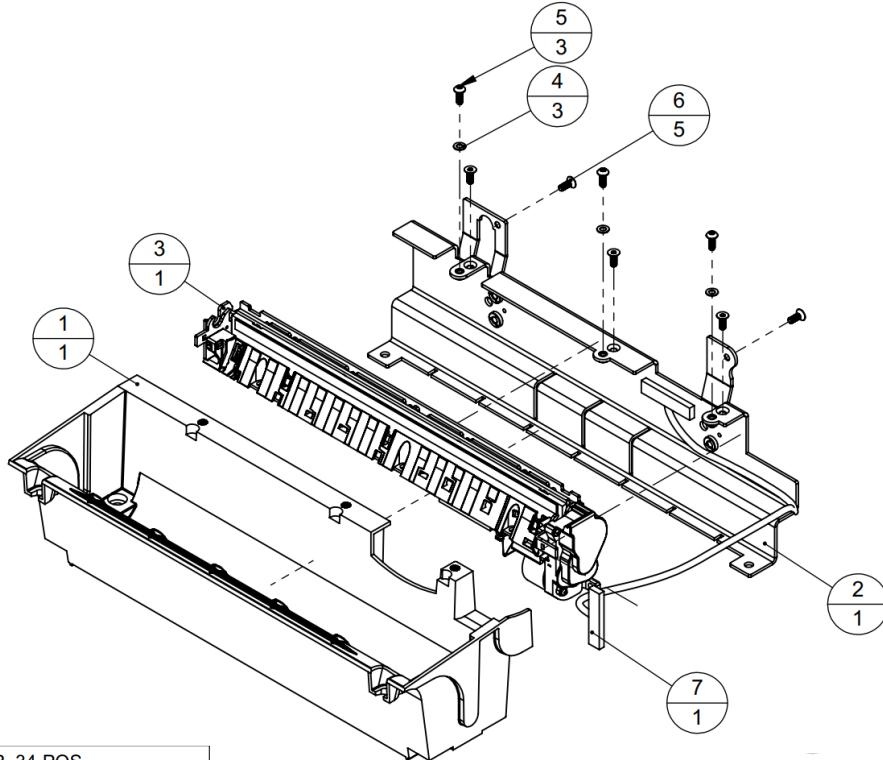
VX~01-00010, Assembly, Printer with Bracket  
and Redirector

# VX~01-00010

## Assembly, Printer with Bracket and Redirector

### Tools/Supplies Required:

- 2mm Hex Driver
- Loctite 425 Thread-Locking Adhesive



### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
7	1	VX-02-00081	CABLE, INTERNAL PRINTER, 34-POS
6	5	VX-99-00118	M3X0.5PX8L, FHCS, 90°, BLACK-OXIDE STEEL
5	3	VX-99-00121	M3X0.5PX8L, BHCS, ZINC-PLATED STEEL
4	3	VX-99-00131	WASHER, M3, ZINC-PLATED STEEL
3	1	FUJITSU-FTP68E_HEAD	FUJITSU THERMAL PRINTER HEAD
2	1	VX-02-00037	BRACKET, PRINTER
1	1	VX-02-00035	BALLOT REDIRECTOR, REAR

# VX~01-00010

## Assembly, Printer with Bracket and Redirector



### Step 1:

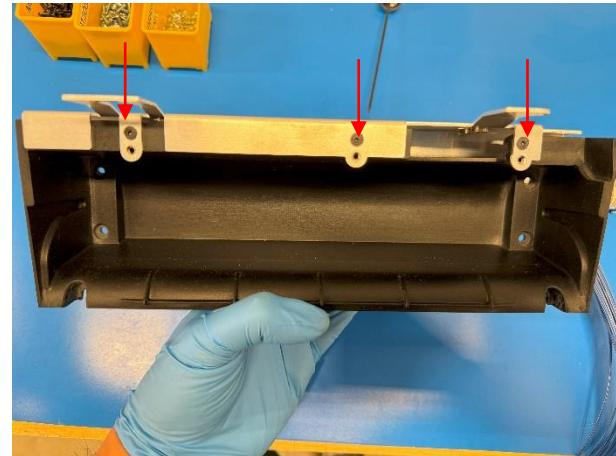
Detach Fujitsu Printer Platen (FUJITSU-FTP68E\_PLATEN) from Printer Head (FUJITSU-FTP68E\_HEAD) by pressing down on the green release latch.

Place Printer Platen aside.



### Step 2:

Connect Internal Printer Cable (FTP-62EY001-R) to Printer Head.

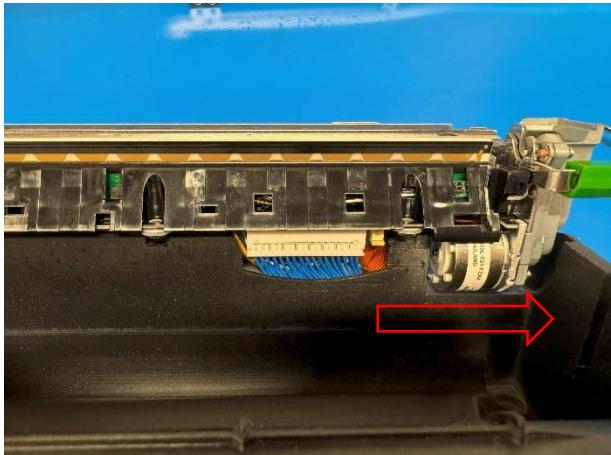


### Step 3:

Mount Printer Bracket (VX~02-00037) to Rear Ballot Redirector (VX~02-00035) via 3x M3x0.5x8 FHCS (VX~99-00118). Apply Loctite 425 to screw threads.

# VX~01-00010

## Assembly, Printer with Bracket and Redirector



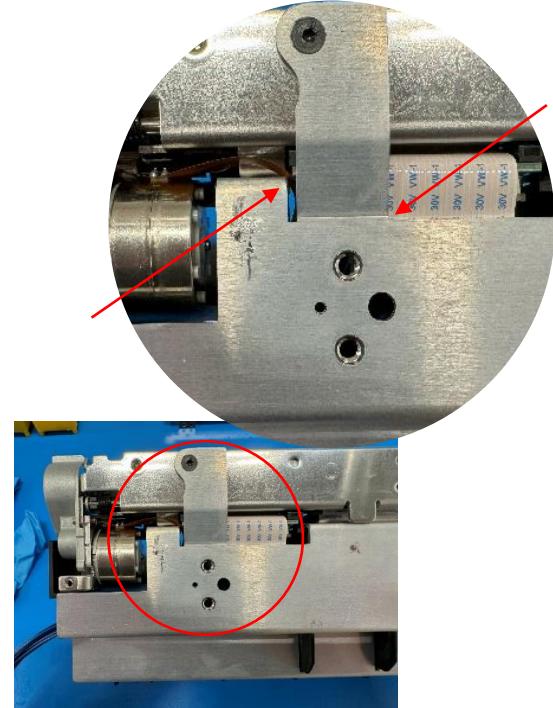
Step 4:

Route Printer Cable to the right.



Step 5:

Route the cables through the channel as indicated, ensuring no wires are pinched.

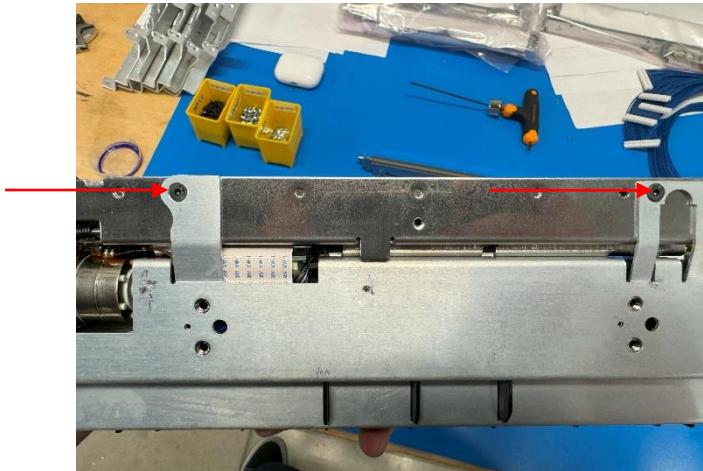


Step 6:

Ensure the flex cables are not pinched by the Printer or Bracket.

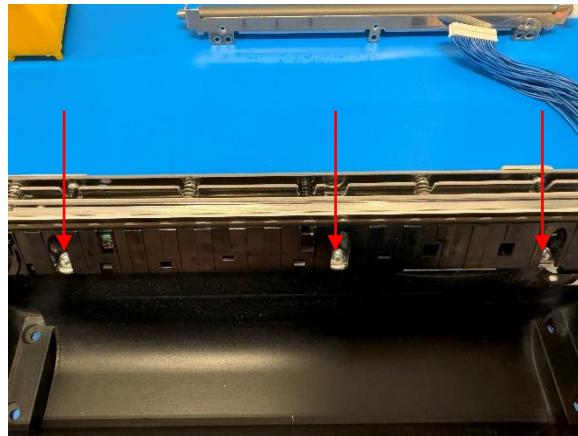
# VX~01-00010

## Assembly, Printer with Bracket and Redirector



Step 7:

Mount Printer to Bracket via 2x M3x0.5x8 FHCS (VX~99-00118).  
Apply Loctite 425 to screw threads.



Step 8:

Fasten via 3x M3x0.5x8 BHCS (VX~99-00121). Apply Loctite 425  
to screw threads.

VX~01-00011, Assembly, Paper Roll Holder

# VX~01-00011

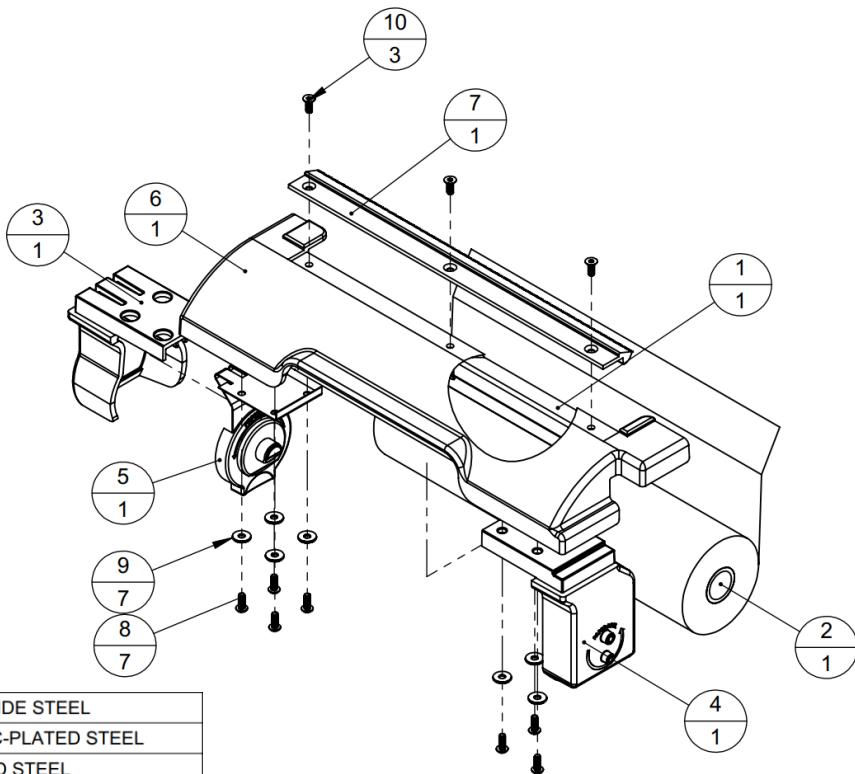
## Assembly, Paper Roll Holder

### Tools/Supplies Required:

- 2mm Hex Driver
- Phillips PH1 Screwdriver
- Loctite 425 Thread-Locking Adhesive

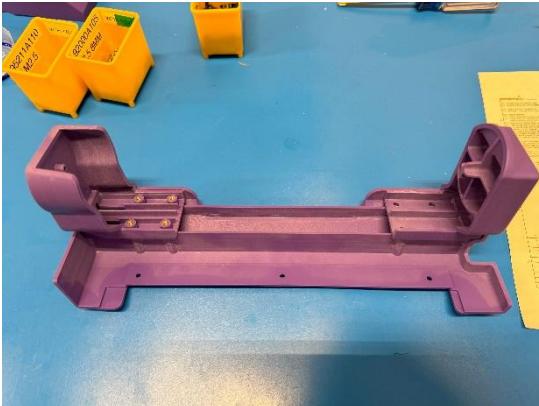
### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
10	3	VX-99-00118	M3X0.5PX8L, FHCS, 90°, BLACK-OXIDE STEEL
9	7	VX-99-00111	WASHER, OVERSIZED, M3, 9MM OD, ZINC-PLATED STEEL
8	7	VX-99-00121	M3X0.5PX8L, BHCS, ZINC-PLATED STEEL
7	1	VX-02-00045	TEAR BAR, SERRATED
6	1	VX-02-00044	PLATEN AND ROLL HOLDER, TOP
5	1	VX-01-00012	ASSEMBLY, PAPER ROLL HOLDER SPRING WITH CAP
4	1	VX-02-00043	PAPER ROLL HOLDER, RIGHT
3	1	VX-02-00042	PAPER ROLL HOLDER, LEFT
2	1	VX-99-00099	THERMAL PAPER, A4, 52MM OD, 15MM ID
1	1	FUJITSU~FTP68E_PLATEN	FUJITSU THERMAL PRINTER PLATEN



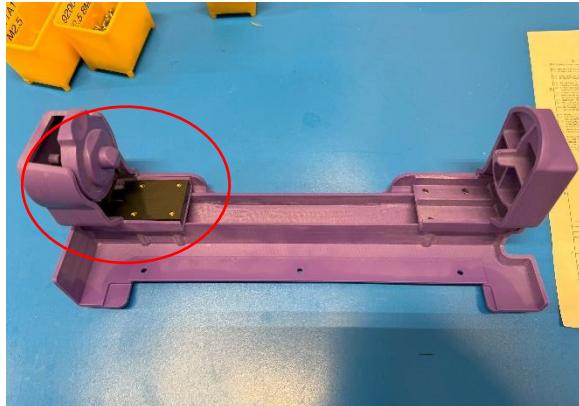
# VX~01-00011

## Assembly, Paper Roll Holder



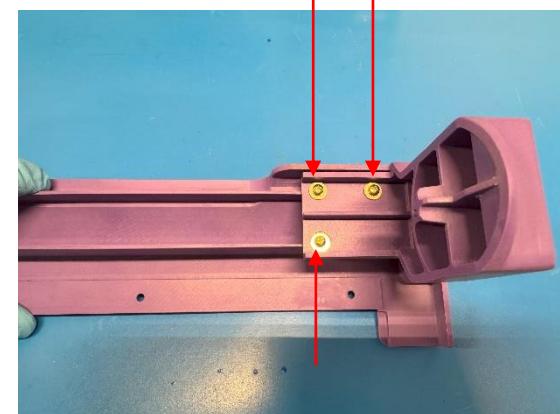
### Step 1:

Lay Left Paper Roll Holder (VX~02-00042) and Right Paper Roll Holder (VX~02-00043) in place with Platen and Roll Holder Top (VX~02-00044) as indicated.



### Step 2:

Lay Paper Roll Holder Spring with Cap Assy (VX~01-00012) into place with Left Paper Roll Holder.

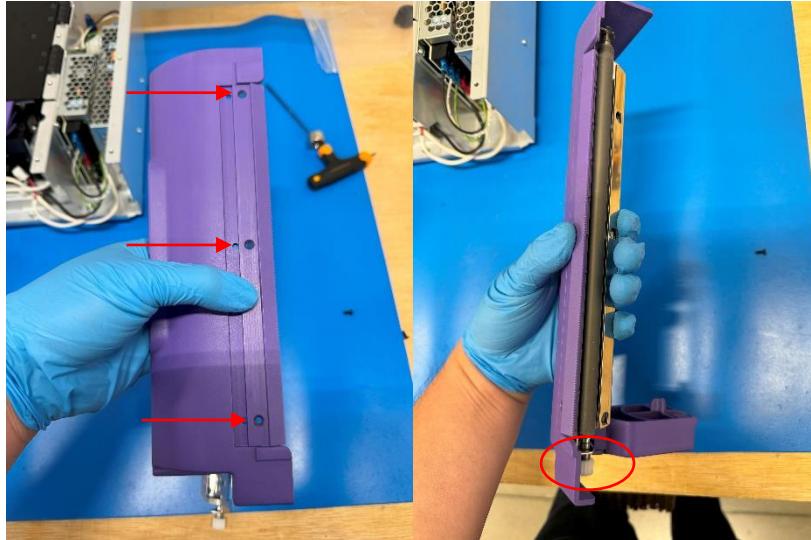


### Step 3:

Mount Left and Right Roll Holders via 7x M2.5x0.5x8 Pan Head Screws (VX-99-00122) and 7x M2.5 Washers (VX-99-00125). Apply Loctite 425 to screw threads.

# VX~01-00011

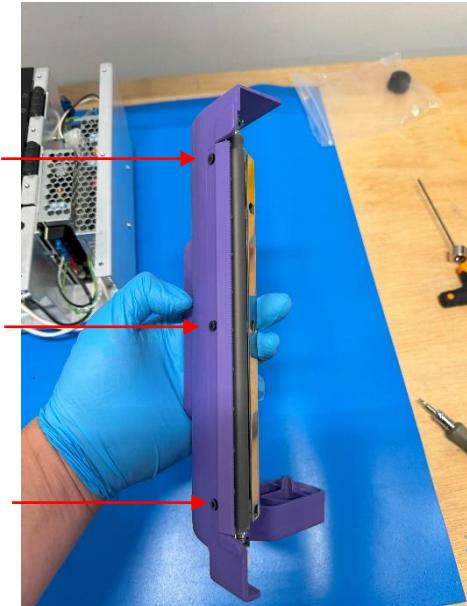
## Assembly, Paper Roll Holder



Step 4:

Align Serrated Tear Bar (VX~02-00045) with Mounting Holes of Platen and Roll Holder Top and Fujitsu Printer Platen (FUJITSU-FTP68E-PLATEN).

Ensure Platen is positioned so that the Platen Gear is positioned toward Right Roll Holder.

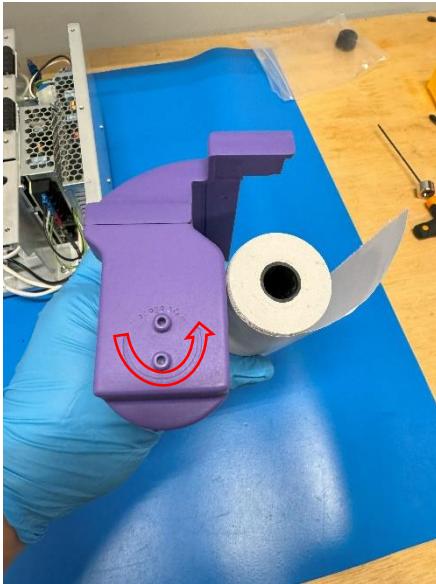


Step 5:

Secure Platen and Serrated Tear Bar to Roll Holder Top via 3x M3x0.5x8 FHCS (VX~99-00118). Apply Loctite 425 to screw threads.

# VX~01-00011

## Assembly, Paper Roll Holder



Step 6:

Position Thermal Paper Roll (VX-99-00099) in the direction indicated on the Roll Holders.



Step 7:

Insert Paper Roll into Holder by inserting right side into Right Roll Holder, depressing the Spring Cap and inserting left side of Paper roll until seated.

VX~01-00009 Assembly, Scanner with Bracket  
and Infeed

# VX~01-00009

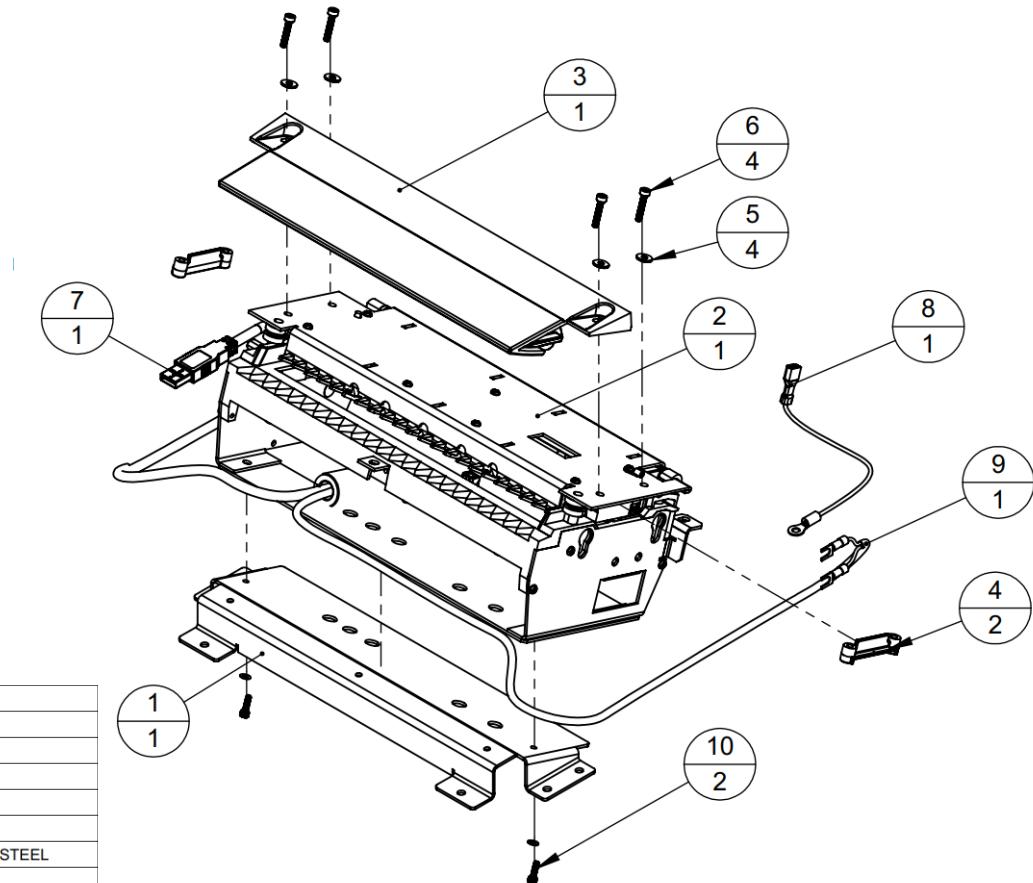
## Assembly, Scanner with Bracket and Infeed

### Tools/Supplies Required:

- 2mm Hex Driver
- Loctite 425 Thread-Locking Adhesive
- Side cutting pliers

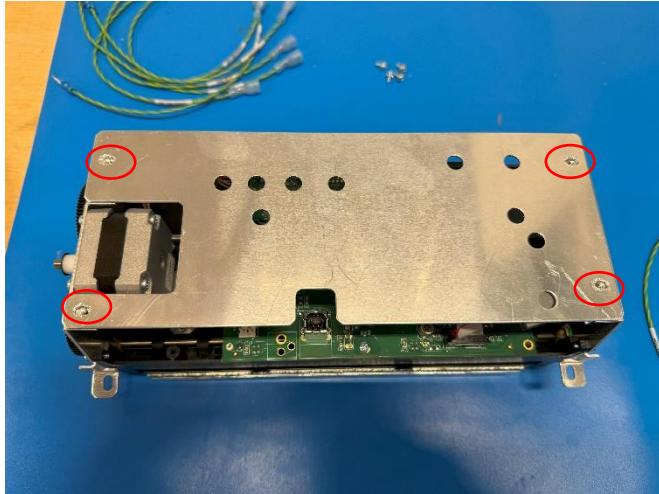
### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
11	2	VX-99-00131	WASHER, M3, ZINC-PLATED STEEL
10	2	VX-99-00166	4-40X3/8"L, BHCS, ZINC PLATED STEEL
9	1	VX~02-00077	CABLE, SCANNER POWER, 24V
8	1	VX~02-00073	CABLE, SCANNER GROUND
7	1	L-COM-CAABLK-90RB-05M	CABLE, USB 2.0 A TO B, 0.5M
6	4	VX-99-00108	M3X0.5PX16L, SHCS, ZINC-PLATED STEEL
5	4	VX-99-00111	WASHER, OVERSIZED, M3, 9MM OD, ZINC-PLATED STEEL
4	2	VX-02-00041	MOUNT, TOP INFEED TRAY
3	1	VX-02-00040	INFEED TRAY, TOP
2	1	PDI-PS6	PDI PAGE SCAN 6 DOCUMENT SCANNER
1	1	VX-02-00039	BRACKET, SCANNER MOUNT
ITEM NO. QTY. PART NUMBER DESCRIPTION			



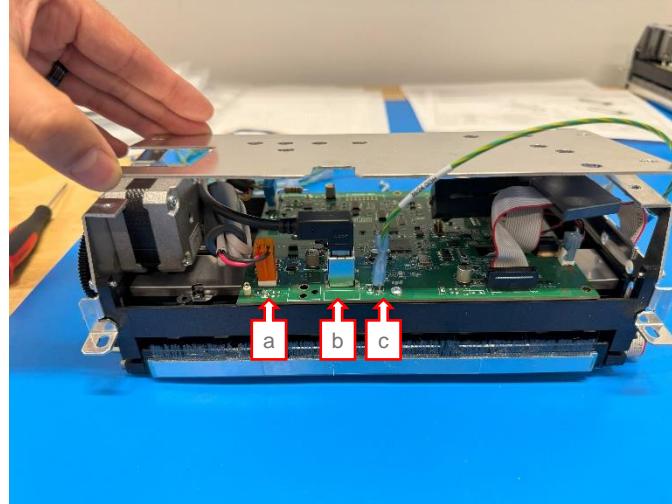
# VX~01-00009

## Assembly, Scanner with Bracket and Infeed



Step 1:

Place PDI Document Scanner (PDI~PS6) upside-down on work bench. Remove 4x screws with washers and discard 2x.



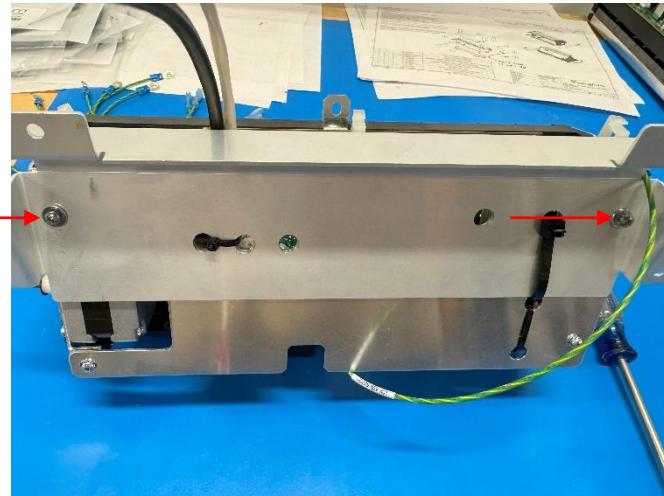
Step 2:

Lift plate to allow enough clearance to connect:

- a. 24V Scanner Power Cable (VX~02-00077)
- b. USB 2.0 A to B, Scanner Cable (L-COM~CAABLK-90RB-05M)
- c. Scanner Ground Cable (VX~02-00073)

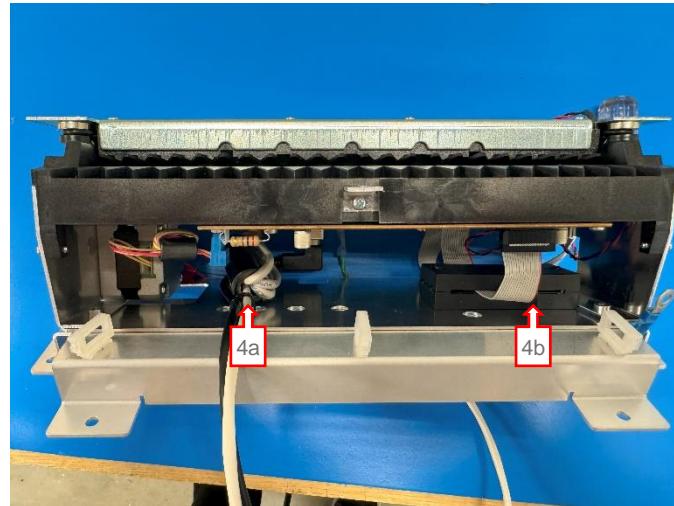
# VX~01-00009

## Assembly, Scanner with Bracket and Infeed



Step 3:

Secure Scanner Mount Bracket (VX~02-00039) to Printer via  
2x 4-40x3/8" BHCS and 2x M4 Washers (VX~99-00131).  
Apply Loctite 425 to screw threads.



Step 4a:

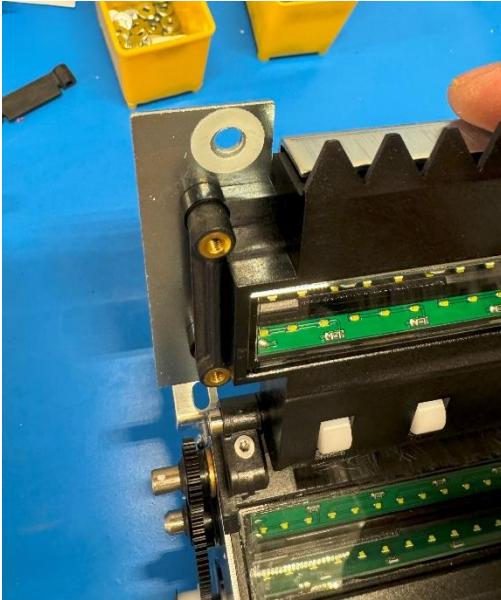
Secure 24V Scanner Power and USB cable to Scanner Mount  
Bracket via cable tie (VX~99-00104). Trim excess cable tie  
material.

Step 4b:

Secure Ferrite Core to Scanner Mount Bracket via cable tie  
(VX~99-00103). Trim excess cable tie material.

# VX~01-00009

## Assembly, Scanner with Bracket and Infeed



Step 5:

Place and hold Top Infeed Tray Mount (VX~02-00039) as shown.



Step 6:

Tighten rear fastener of Top Infeed Tray Mount via M3x0.5x16 FHCS (VX~99-00108) and M3 Oversized Washer (VX~99-00111). Apply Loctite 425 to screw threads.

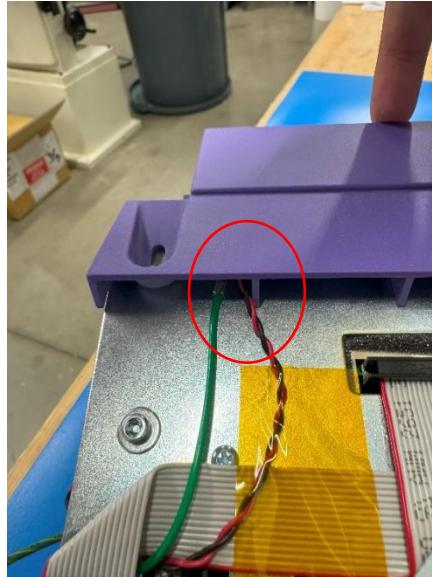
# VX~01-00009

## Assembly, Scanner with Bracket and Infeed



Step 7:

Position Top Infeed Tray (VX~02-00040) as shown.



Step 8:

Ensure Top Infeed Tray is clear of Scanner wires/cables.



Step 9:

Tighten fastener through Top Infeed Tray via M3x0.5x16 FHCS (VX~99-00108) and M3 Oversized Washer (VX~99-00111). Apply Loctite 425 to screw threads.

Repeat steps 5,6,9 for left side.

VX~01-00005 Assembly, Subpanel Bracket, Left  
with Latch

# VX~01-00005

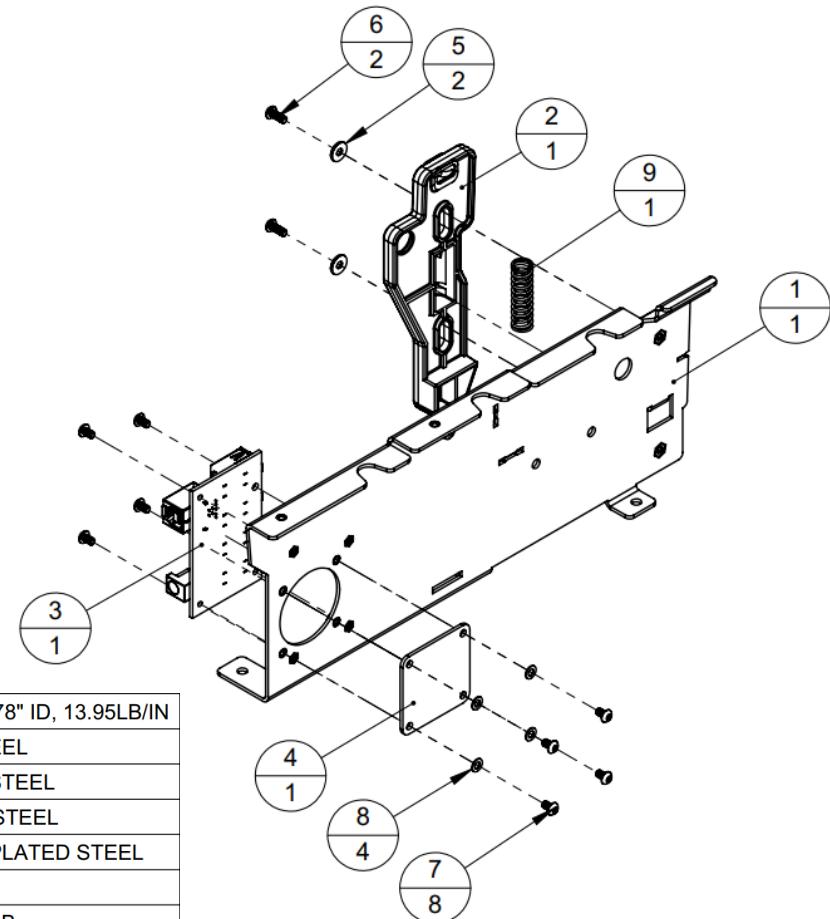
## Assembly, Subpanel Bracket, Left with Latch

### Tools/Supplies Required:

- 2mm Hex Driver
- Flathead Screwdriver
- Loctite 425 Thread-Locking Adhesive
- Liquid Electrical Tape, Black Vinyl

### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
9	1	VX~99-00165	SPRING, COMPRESSION, 1.25"L, 0.36" OD, 0.278" ID, 13.95LB/IN
8	4	VX~99-00131	WASHER, M3, ZINC-PLATED STEEL
7	8	VX~99-00120	M3x0.5Px5L, BHCS, ZINC-PLATED STEEL
6	2	VX~99-00121	M3x0.5Px8L, BHCS, ZINC-PLATED STEEL
5	2	VX~99-00111	WASHER, OVERSIZED, M3, 9MM OD, ZINC-PLATED STEEL
4	1	VX~02-00085	PLATE, CHASSIS FAN
3	1	COOLGEAR~CG-3510S4	COOLGEAR USB3.1 4-PORT HUB
2	1	VX~02-00021	LATCH ARM
1	1	VX~02-00027	SUBPANEL BRACKET, LEFT, INTERIOR



# VX~01-00005

Assembly, Subpanel Bracket, Left with Latch



Step 1:

Insert an end of the Compression Spring (VX~99-00165) into alignment feature in Latch Arm (VX~02-00021).



Step 2:

Insert blade of flat head screw driver into window of Latch Arm as shown.



Step 3:

Compress the spring and slide the blade of the flat head screw driver so that the spring is seated on the screw driver.

# VX~01-00005

## Assembly, Subpanel Bracket, Left with Latch



Step 4:

While maintaining compression of spring with screw driver blade, carefully lay the Latch Arm and Spring onto the Left Interior Subpanel Bracket (VX~02-00027). Ensure the entire screw driver blade is above the spring retaining tab and remove the screw driver blade.

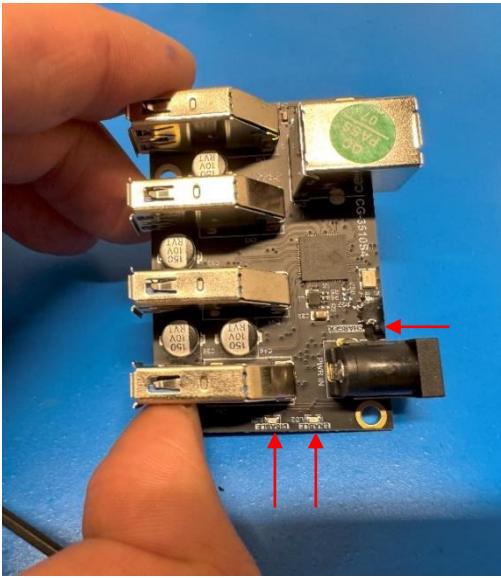


Step 5:

Fasten 2x M3x0.5x8 BHCS (VX-99-00121) and 2x M3 Oversized Washer (VX-99-00111). Apply Loctite 425 to screw threads.

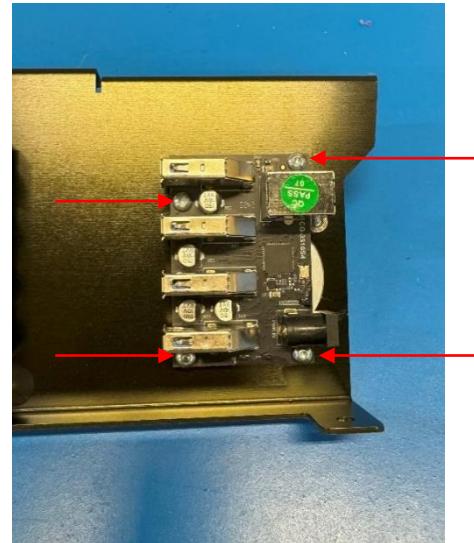
# VX~01-00005

## Assembly, Subpanel Bracket, Left with Latch



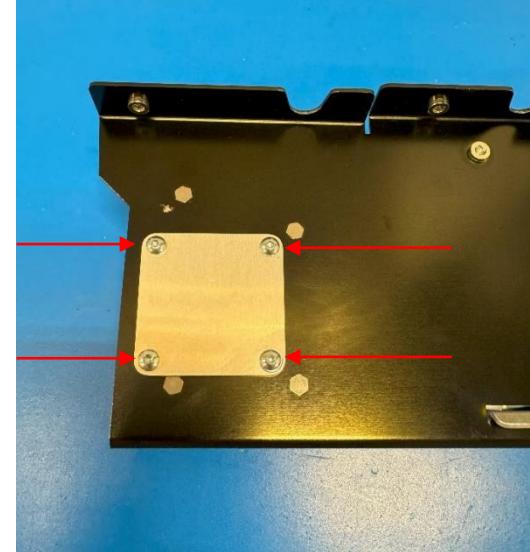
### Step 6:

Apply Liquid Electrical Tape over 3x board-mounted LEDs on the USB 4-Port Hub (COOLGEAR-CG-3510S4). Ensure the entire LED housings are covered.



### Step 7:

Mount USB 4-Port Hub to Left Interior Subpanel Bracket via 4x M3x0.5x5 BHCS (VX~99-00120).  
Apply Loctite 425 to screw threads.



### Step 8:

Mount Chassis Fan Plate (VX~02-00085) to Left Interior Subpanel Bracket via 4x M3x0.5x5 BHCS (VX~99-00120) and 4x M3 Washers (VX~99-00131). Apply Loctite 425 to screw threads.

VX~01-00007 Assembly, Panel, Pollworker with  
Bolt

# VX~01-00007

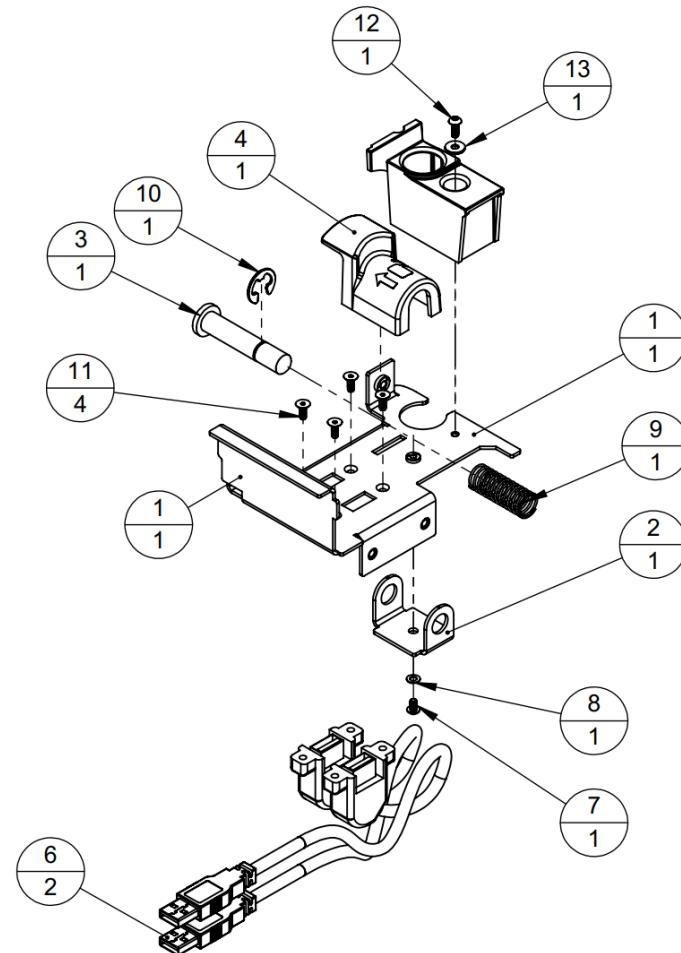
## Assembly, Panel, Pollworker with Bolt

### Tools/Supplies Required:

- 2mm Hex Driver, T-Handle, Magnetic, 6" Overall Length
- 1/16" Hex Driver
- Loctite 425 Thread-Locking Adhesive
- Needle Nose Pliers

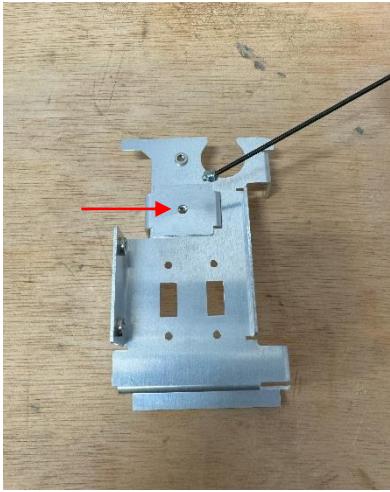
### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
13	1	VX-99-00111	WASHER, OVERSIZED, M3, 9MM OD, ZINC-PLATED STEEL
12	1	VX-99-00121	M3x0.5Px8L, BHCS, ZINC-PLATED STEEL
11	4	VX-99-00115	4-40x5/16"L, FHCS, 82°, BLACK-OXIDE STEEL
10	1	VX-99-00130	RETAINING RING, FOR 3/8" OD, BLACK-PHOSPHATE STEEL
9	1	VX-99-00129	SPRING, COMPRESSION, 1.25", 5.7LB
8	1	VX-99-00131	WASHER, M3, ZINC-PLATED STEEL
7	1	VX-99-00120	M3x0.5Px5L, BHCS, ZINC-PLATED STEEL
6	2	TRIP-LITE-U324-001-APM	TRIP-LITE PANEL MOUNT USB CONNECTOR
5	1	VX-02-00048	DISPLAY CABLE GUIDE
4	1	VX-02-00034	SLIDE BOLT SHROUD
3	1	VX-02-00033	SLIDE BOLT
2	1	VX-02-00032	BRACKET, SLIDE BOLT
1	1	VX-02-00031	PANEL, POLLWORKER



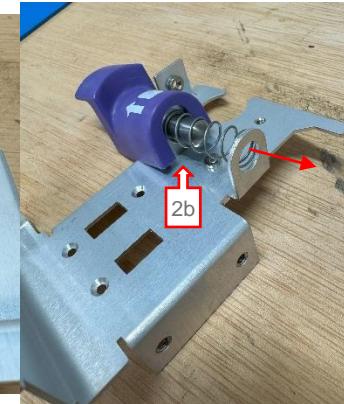
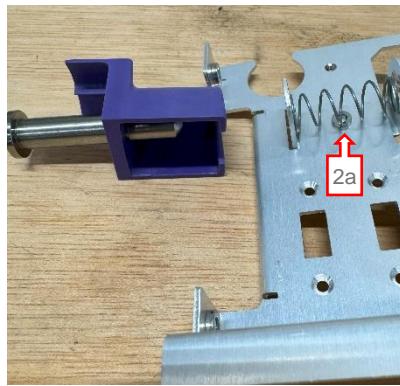
# VX~01-00007

## Assembly, Panel, Pollworker with Bolt



### Step 1:

Mount Slide Bolt Bracket (VX~02-00032) to Pollworker Panel (VX~02-00031) via M3x0.5x5 HCBS (VX~99-00120) and M3 Washer (VX~99-00131). Apply Loctite 425 to screw threads.



### Step 2a:

Place Compression Spring (VX~99-00129) retained between Slide Bolt Bracket tabs.

### Step 2b:

Feed Slide Bolt (VX~02-00033) through Slide Bolt Shroud (VX~02-00034) hole and into Bracket tabs. Ensure Slide Bolt Shroud is captured within left tab of Bracket.

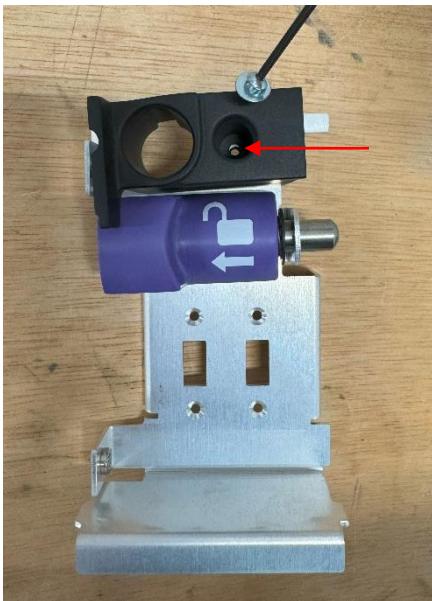


### Step 3:

Compress spring using Retaining Ring (VX~99-00130) and seat Ring into groove.

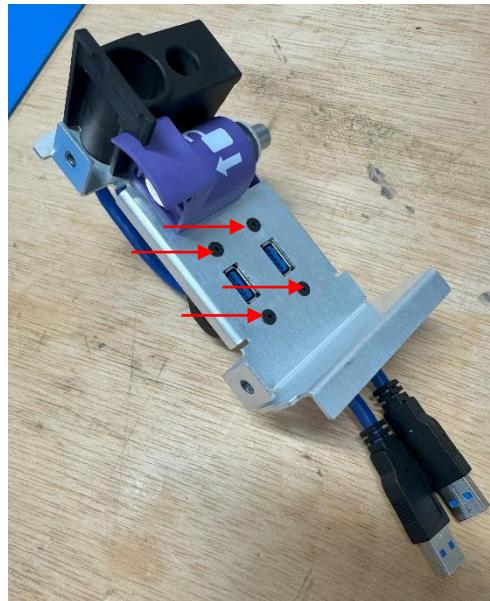
# VX~01-00007

## Assembly, Panel, Pollworker with Bolt



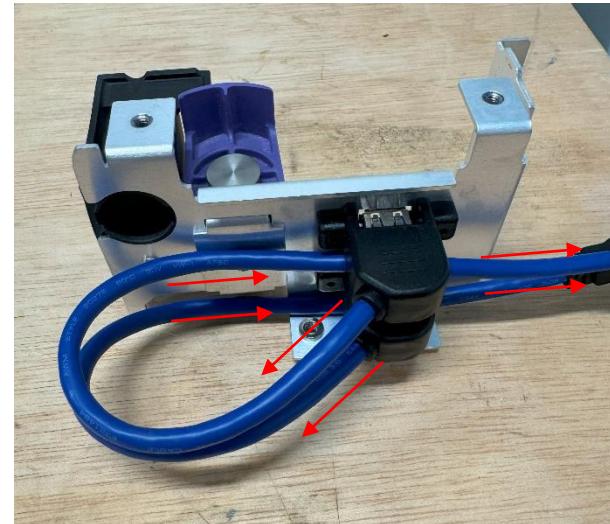
Step 4:

Mount Display Cable Guide (VX~02-00048) to Poll Worker Panel via M3x0.5x8 BHCS (VX~99-00121) and M3 Oversized Washer (VX~99-00111). Apply Loctite 425 to screw threads.



Step 5:

Mount x2 USB Panel Mount Connectors (TRIP-LITE~U324-001-APM) to Poll Worker Panel via 4x 4-40x5/16" FHCS (VX~99-00115). Apply Loctite 425 to screw threads.



Step 6:

Ensure the Panel Mount Connectors are oriented such that the cable routes toward the rear. Loop USB cable as shown.

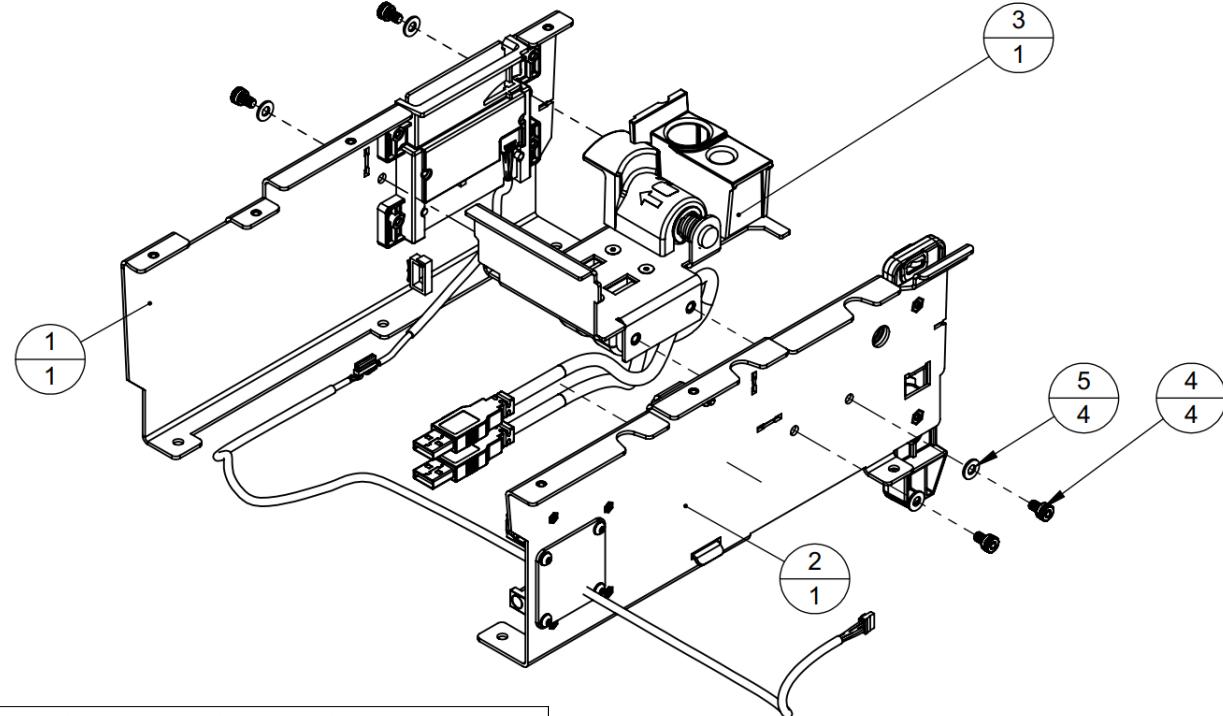
# VX~01-000087 USB Latch Card Subframe Assembly

# VX~01-000087

## USB Latch Card Subframe Assembly

### Tools/Supplies Required:

- 3mm Hex Driver
- Loctite 425 Thread-Locking Adhesive



### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
5	4	VX~99-00113	WASHER, M4, ZINC-PLATED STEEL
4	4	VX~99-00106	M4X0.7PX6L, SHCS, ZINC-PLATED STEEL
3	1	VX~01-00007	ASSEMBLY, PANEL, POLLWORKER WITH BOLT
2	1	VX~01-00005	ASSEMBLY, SUBPANEL BRACKET, LEFT WITH LATCH
1	1	VX~01-00003	ASSEMBLY, SUBPANEL BRACKET, LEFT WITH CARD READER

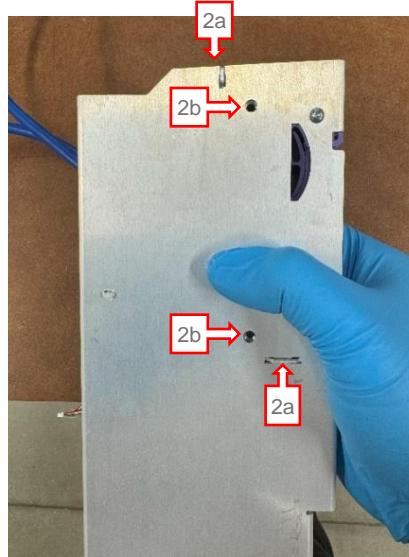
# VX~01-000087

## USB Latch Card Subframe Assembly



Step 1:

Hold Left Subpanel Bracket Assembly with Card Reader (VX~02-00003) to Pollworker Panel Assembly (VX~02-00007) as shown.



Step 2a:

Align Poll Worker Panel Tabs with Exterior Subpanel Bracket Slots.

Step 2b:

Fasten via 2x M4x0.7x6 SHCS (VX~99-00106) and 2x M4 Washer (VX~99-00113). Apply Loctite 425 to screw threads.

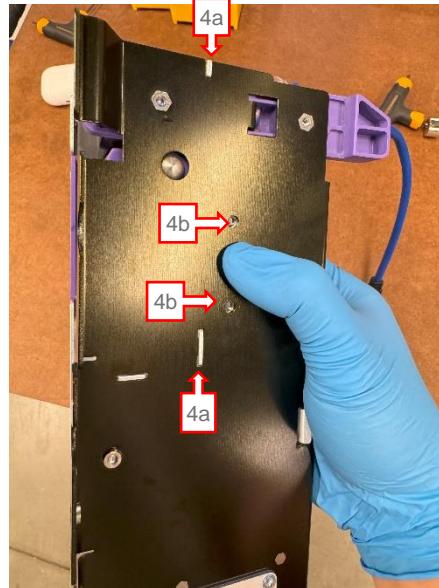
# VX~01-000087

## USB Latch Card Subframe Assembly



Step 3:

Hold Left Subpanel Bracket with Latch (VX~02-00005) to Pollworker Panel Assembly (VX~02-00007) as shown.



Step 4a:

Align Poll Worker Panel Tabs with slots in Subpanel Bracket with Latch.

Step 4b:

Fasten via 2x M4x0.7x6 SHCS (VX~99-00106) and 2x M4 Washer (VX~99-00113). Apply Loctite 425 to screw threads.

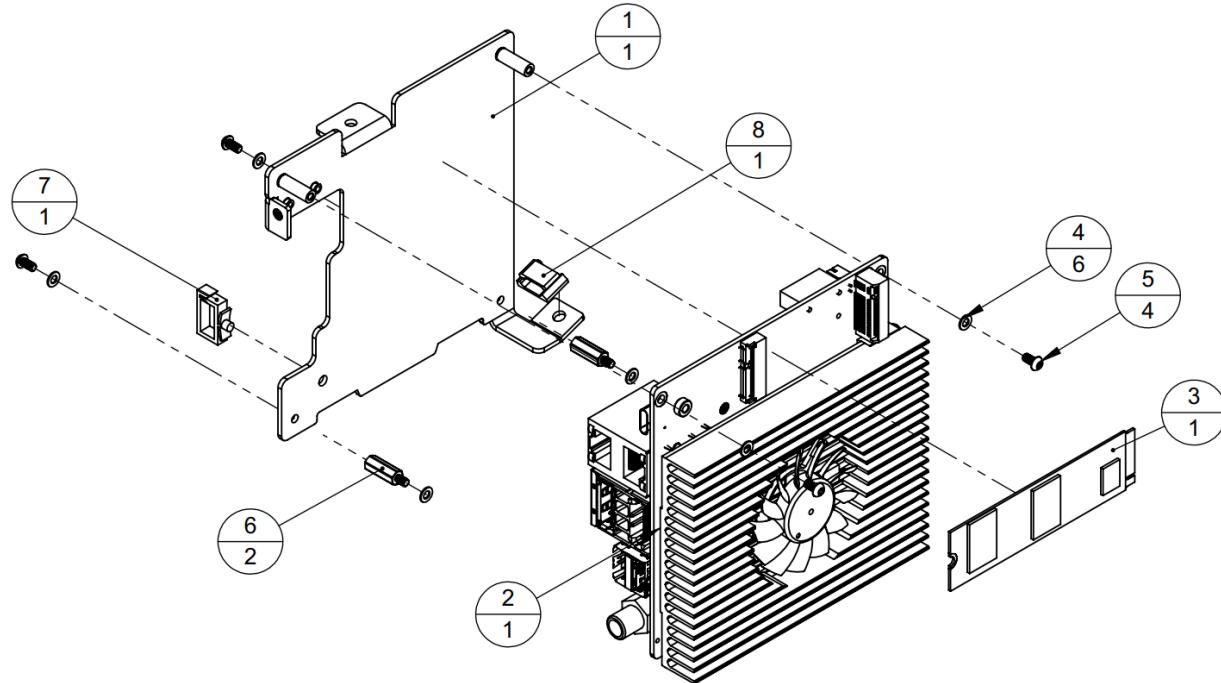
# VX~01-00008 Assembly, SBC with Bracket

# VX~01-00008

## Assembly, SBC with Bracket

### Tools/Supplies Required:

- 1.5mm Hex Driver
- 4.5mm Combination Wrench
- Phillips PH1 Screw Driver
- Phillips PH2 Screw Driver
- Loctite 425 Thread-Locking Adhesive

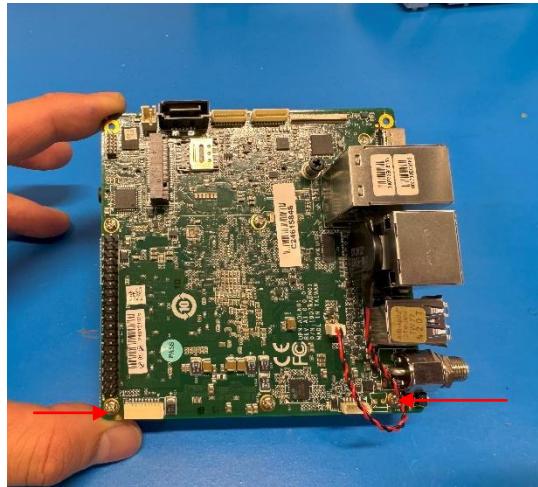


### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
8	1	ESSENTRA-MBHWSS-1-01	CABLE CLIP, WIRE SADLE, SIDE ENTRY, 3.96MM HOLE
7	1	ESSENTRA~WSLC-6-01	CABLE CLIP, WIRE SADLE, HINGED TOP LOCK, 3.51MM HOLE
6	2	VX~99-00124	M2.5x0.45Px12L, HEX STANDOFF, MALE-FEMALE, ZINC-PLATED BRASS
5	4	VX~99-00123	M2.5x0.45Px5L, BHCS, STAINLESS STEEL
4	6	VX~99-00132	WASHER, M2.5, STAINLESS STEEL
3	1	ADATA~IM2P32A8-128GCTB5	SOLID STATE DRIVE, 128GB NVME M.2, 3.3V
2	1	AAEON~UPN-ADLN97-A10-0864	AAEON UP 7000 SQUARED PRO SBC
1	1	VX~01-00017	ASSEMBLY, MOUNTING BRACKET, SBC

# VX~01-00008

## Assembly, SBC with Bracket



Step 1:

Remove 2x lower corner screws and discard.

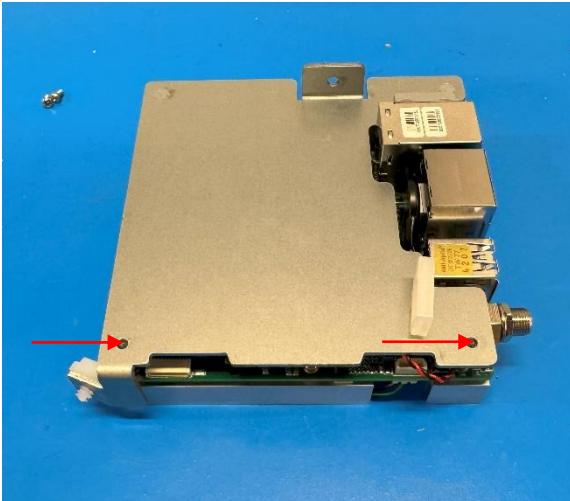


Step 2:

Fasten lower corners with 2x M2.5x0.45x12 Hex Standoff (VX-99-00124) and 2x M2.5 Washers (VX-99-00132).

# VX~01-00008

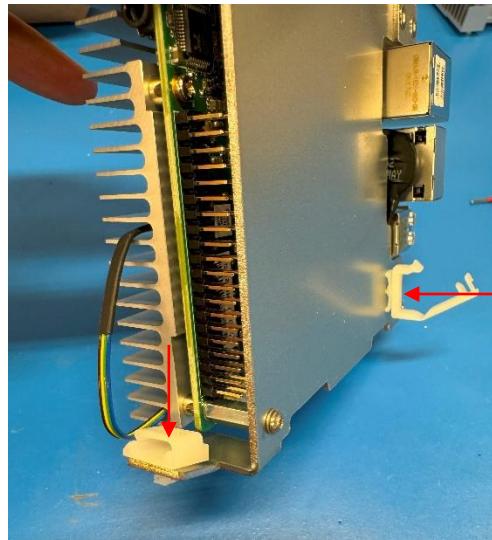
## Assembly, SBC with Bracket



Step 3:

Align hex standoffs with thru holes in SBC Mounting Bracket (VX-01-00017) and loosely fasten via 2x M2.5x0.45x5 BHCS (VX-99-00123) and 2x M2.5 Washer (VX-99-00132).

Apply Loctite 425 to screw threads.



Step 4:

Press in Side Entry Cable Clip (ESSENTRA-MBHWSS-1-01) and Hinged Top Lock Cable Clip (ESSENTRA-WSLC-6-01).

# VX~01-00008

## Assembly, SBC with Bracket – Installing SSD



Step 5:

Remove Solid State Drive Mounting Screw.



Step 6:

Insert Solid State Drive until fully seated.



Step 6:

Lightly hold down Solid State Drive while fastening retaining screw.

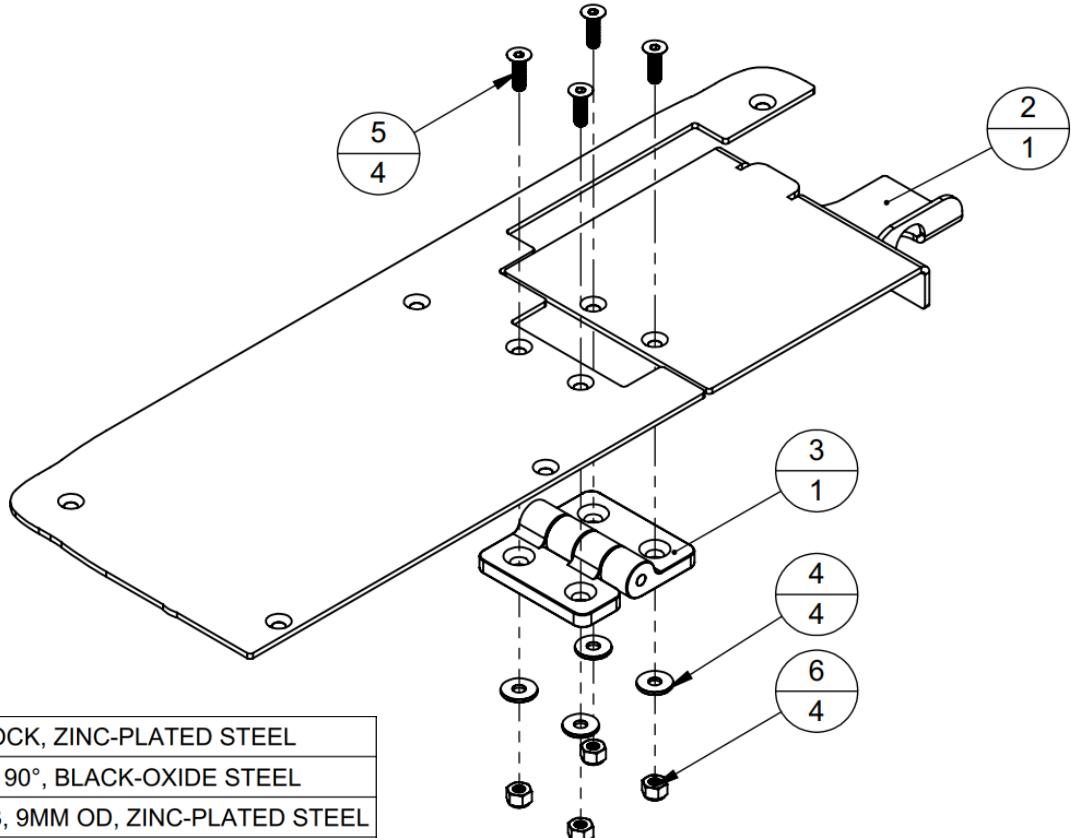
VX~01-00013 Assembly, Panel, Main, Left with  
Hinge

# VX~01-00013

## Assembly, Panel, Main, Left with Hinge

### Tools/Supplies Required:

- 2mm Hex Driver
- Loctite 425 Thread-Locking Adhesive
- Assembly Jig



### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
6	4	VX~99-00107	NUT, M3x0.5P, NYLOCK, ZINC-PLATED STEEL
5	4	VX~99-00119	M3x0.5Px10L, FHCS, 90°, BLACK-OXIDE STEEL
4	4	VX~99-00111	WASHER, OVERSIZED, M3, 9MM OD, ZINC-PLATED STEEL
3	1	VX~99-00105	HINGE, SCREW ON, 1-1/2"H x 13/16"W LEAF, NYLON
2	1	VX~02-00050	PANEL, POLLWORKER ACCESS
1	1	VX~02-00049	PANEL, MAIN, LEFT
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION

# VX~01-00013

Assembly, Panel, Main, Left with Hinge



Step 1:

Populate assembly jig with hardware:

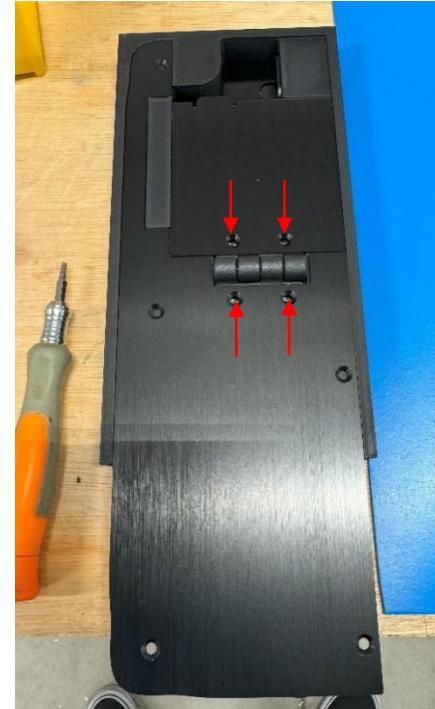
4x M3x0.5 Locknuts (VX~99-00107)

4x M3 Oversized Washers (VX~99-00111)



Step 2:

Lay Hinge (VX~99-00105) in place.



Step 3:

Fasten Main Left Panel (VX~02-00049) and Pollworker Access Panel (VX~02-00050) to hinge via 4x M3x0.5x10 FHCS (VX~99-00107).

Apply Loctite 425 to screw threads.

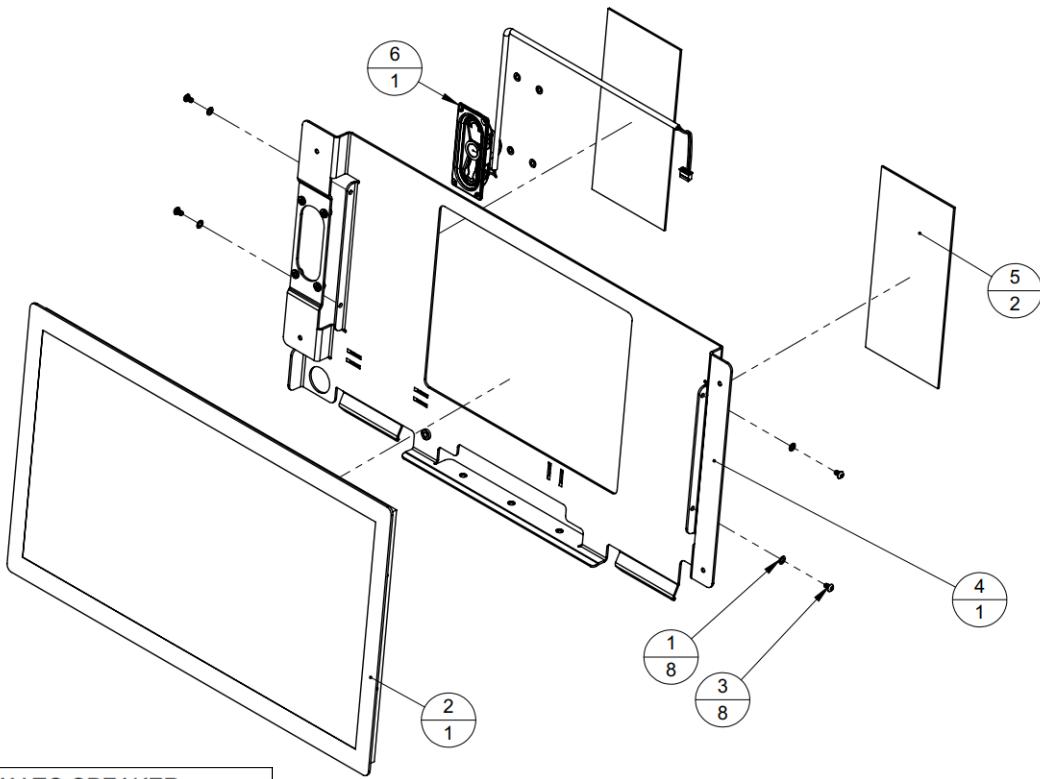
VX~01-00016 Assembly, Touch Display with  
Bracket

# VX~01-00016

## Assembly, Touch Display with Bracket

### Tools/Supplies Required:

- 2mm Hex Driver
- Loctite 425 Thread-Locking Adhesive
- Side cutting pliers

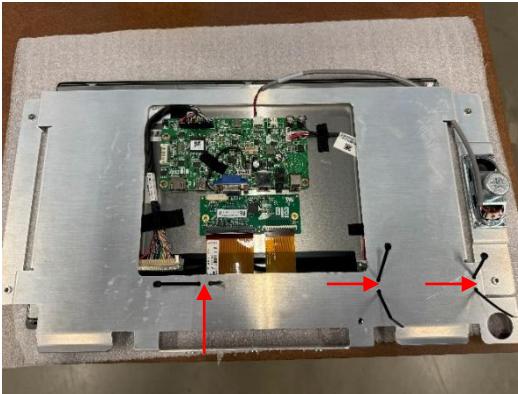


### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
6	1	VX~02-00082	CABLE ASSEMBLY, DISPLAY TO SPEAKER
5	2	VX~02-00059	FOAM, DISPLAY BLACK, 6.3x2.95 IN
4	1	VX~02-00058	BRACKET, LID DISPLAY
3	8	VX~99-00120	M3x0.5Px5L, BHCS, ZINC-PLATED STEEL
2	1	ELO-E976783	ELO TOUCH DISPLAY, 15.6"
1	8	VX~99-00131	WASHER, M3, ZINC-PLATED STEEL

# VX~01-00016

## Assembly, Touch Display with Bracket



Step 1:

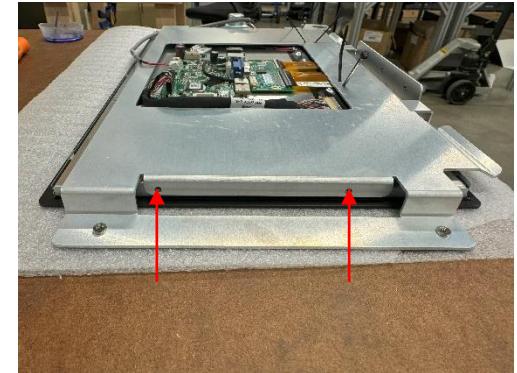
Feed Cable Ties (VX~99-00104) through holes of Lid Display Bracket (VX~02-00058) as shown.



Step 2:

Mount Speaker and Speaker Cable (VX~02-00082) to Display Bracket via 2x M3x0.5x8 BHCS (VX~99-00121), 2x M3 Washers (VX~99-00131), and 2x M3x0.5 Thin Hex Nuts (VX~99-00135). Apply Loctite 425 to screw threads.

Connect speaker cable to SPK connector on Touch Display (ELO~E976783) PCB.



Step 3:

Align side holes of Display Bracket with Mounting holes of Elo Display.

# VX~01-00016

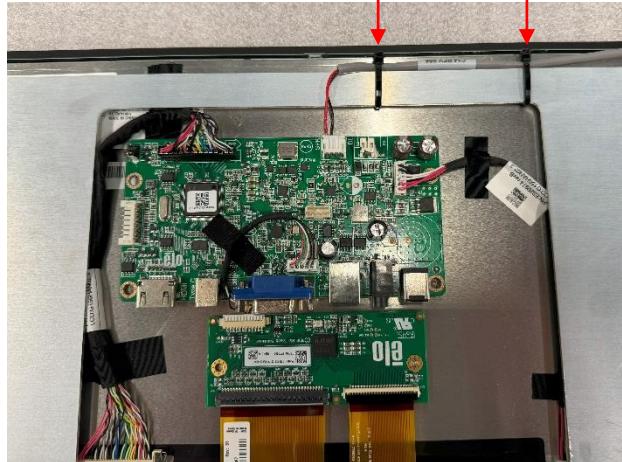
## Assembly, Touch Display with Bracket



Step 4:

Fasten Touch Display to Display Bracket via 2x M3x0.5x5 BHCS (VX~99-00120) and 2x M3 Washers (VX~99-00131). Apply Loctite 425 to screw threads.

Repeat for other side.



Step 5:

Secure Speaker cable via x2 Cable ties (VX~99-104) as shown. Trim excess cable tie length.



Step 6:

Affix Display Back Foam (VX~02-00059) to Left and Right rear face of Display Bracket as shown.

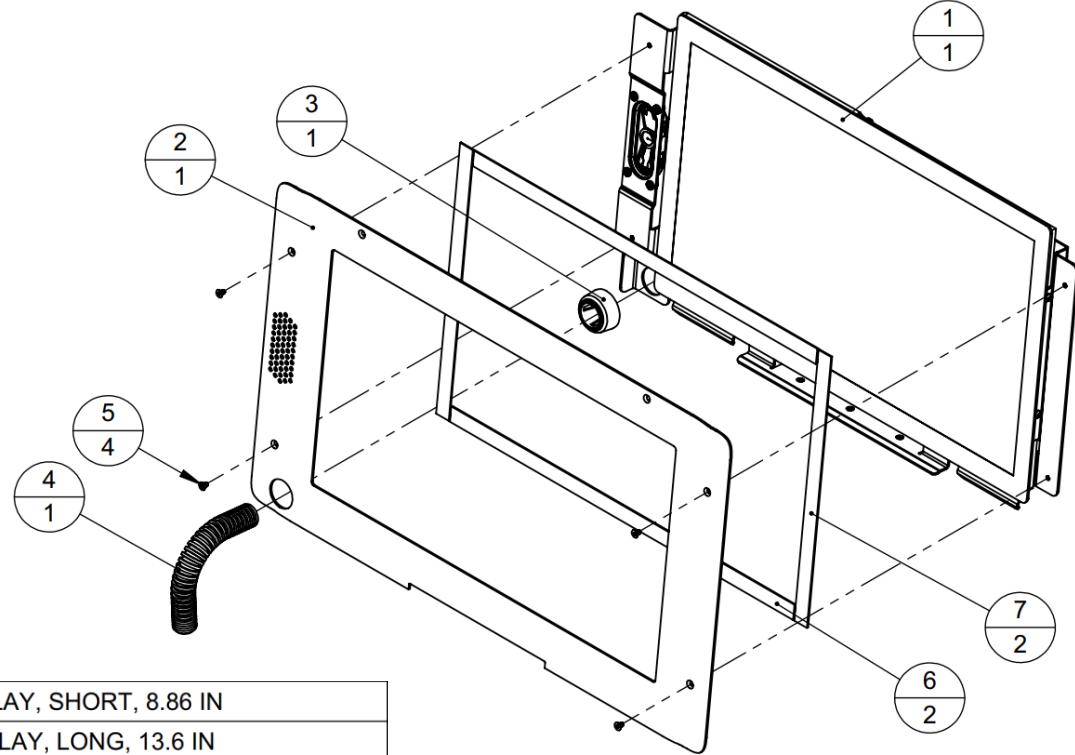
# VX~01-00015 Assembly, Lid

# VX~01-00015

## Assembly, Lid

### Tools/Supplies Required:

- 2mm Hex Driver
- Loctite 425 Thread-Locking Adhesive
- Side cutting pliers
- Fine Tweezers



### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
7	2	VX~02-00091	VHB, DISPLAY, SHORT, 8.86 IN
6	2	VX~02-00090	VHB, DISPLAY, LONG, 13.6 IN
5	4	VX~99-00117	M3X0.5PX5L, FHCS, 90°, BLACK OXIDE STEEL
4	1	VX~02-00092	FLEXIBLE CABLE CONDUIT
3	1	VX~02-00061	DISPLAY CABLE CONDUIT, LID
2	1	VX~02-00060	PANEL, LID
1	1	VX~01-00016	ASSEMBLY, TOUCH DISPLAY WITH BRACKET

# VX~01-00015

## Assembly, Lid



Step 1:

Affix 2x Short Display VHB Tape (VX~02-00091) and 2x Long Display VHB Tape (VX~02-00090) to the rear of Lid Panel (VX~02-00060) as shown.



Step 2:

Remove protective film from Elo Touch Display.

# VX~01-00015

## Assembly, Lid



Step 3:

Feed Flexible Cable Conduit (VX~02-00092) through Display Cable Conduit Stop (VX~02-00061). Ensure two ribs pass through retaining tabs of Conduit Stop.



Step 4:

Place Cable Conduit and Stop into Display Bracket Hole.



Step 5:

Remove VHB Liner from Lid Display Panel. Align 4x holes of Display Panel with PEM nuts in Display Bracket and feed cable conduit through Display Panel hole.

Fasten with 4x M3x0.5x5 FHCS (VX-99-00117).

Apply Loctite 425 to screw threads. Apply firm pressure around perimeter of Display Viewing Area to ensure proper bonding with glass.

# VX~01-00006, Assembly, Tub Component

# VX~01-00006

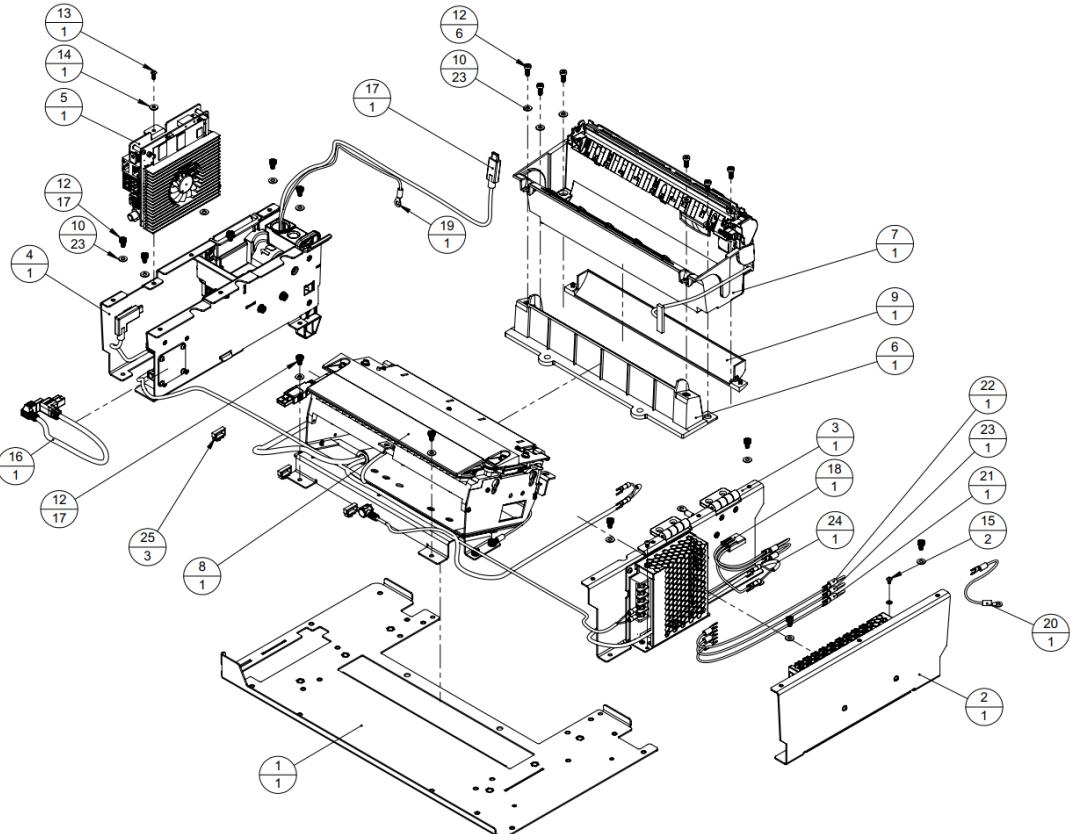
## Assembly, Tub Component

### Tools/Supplies Required:

- 2mm Hex Driver
- 2.5mm Ball End Hex Driver, T-Handle, Magnetic, 6" Overall Length
- 3mm Ball End Hex Driver, T-Handle, Magnetic, 6" Overall Length
- Phillips PH2 Screw Driver
- Loctite 425 Thread-Locking Adhesive
- Side cutting pliers

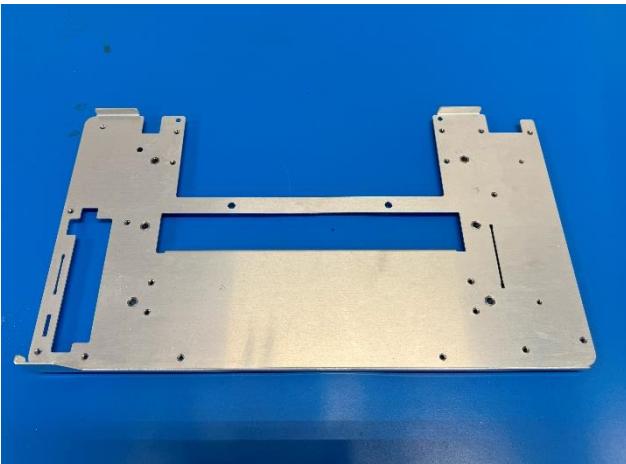
### Parts in Subassembly:

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
26	2	VX-99-00131	
25	3	ESSENTRA-WSLC-6-01	WASHER, M3, ZINC-PLATED STEEL
24	1	VX-02-00078	CABLE CLIP, ARROWHEAD
23	1	VX-02-00076	CABLE, PRINTER POWER, 24V
22	1	VX-02-00075	NEUTRAL, DAISY CHAIN
21	1	VX-02-00074	CABLE, HOT DAISY CHAIN
20	1	VX-02-00072	CABLE, GROUND DAISY CHAIN
19	1	VX-02-00071	CABLE, POWER SUPPLY GROUND
18	1	VX-02-00070	CABLE, LID GROUND STRAP
17	1	GLOBTEK-USBCW1M0USBC2SLEMBK	POWER ENTRY STAGE 2, JUMPER HARNESS
16	1	USB-FIREWIRE-RR-ADBU-10GR	CABLE, USB-C, STRAIGHT C, LEFT C WITH SCREW LOCK, 1.00M
15	2	VX-99-00120	CABLE, USB3.0, DOWN A, UP B, 10"
14	1	VX-99-00111	M3x0.5Px5L, BHCS, ZINC-PLATED STEEL
13	1	VX-99-00121	WASHER, OVERSIZED, M3, 9MM OD, ZINC-PLATED STEEL
12	6	VX-99-00110	M3x0.5Px8L, BHCS, ZINC-PLATED STEEL
12	17	VX-99-00106	M4x0.7Px10L, SHCS, LOW-PROFILE, ZINC-PLATED STEEL
10	23	VX-99-00113	WASHER, M4, ZINC-PLATED STEEL
9	1	VX-02-00055	LOCKOUT, BACK
8	1	VX-01-00009	ASSEMBLY, SCANNER WITH BRACKET AND INFED
7	1	VX-01-00010	ASSEMBLY, PRINTER WITH BRACKET AND REDIRECTOR
6	1	VX-02-00036	BALLOT REDIRECTOR, FRONT
5	1	VX-01-00008	ASSEMBLY, SBC WITH BRACKET
4	1	VX-01-00087	ASSEMBLY, SUBFRAME, USB LATCH CARD
3	1	VX-01-00004	ASSEMBLY, SUBPANEL BRACKET, RIGHT WITH 12V PSU AND PRINTER CONTROL
2	1	VX-01-00002	ASSEMBLY, SUBPANEL BRACKET, RIGHT WITH 24V PSU
1	1	VX-02-00020	SUBPANEL PLATE



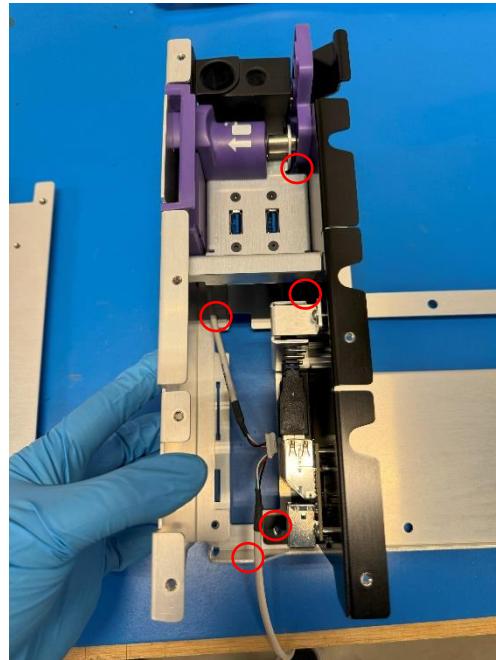
# VX~01-00006

## Assembly, Tub Component



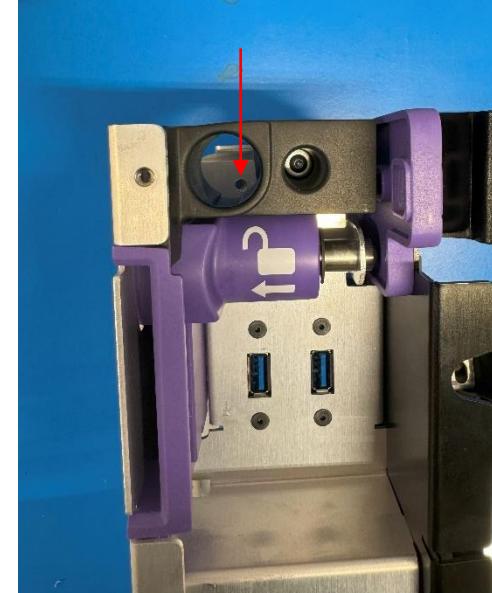
### Step 1:

Set Subpanel (VX~02-00020) on flat surface



### Step 2:

Mount USB Latch Card Subframe Assembly (VX~01-00087) to Subpanel via 5x M4x0.7x6 SHCS (VX~99-00106) and 5x M4 Washers (VX~99-00113). Apply Loctite 425 to screw threads.

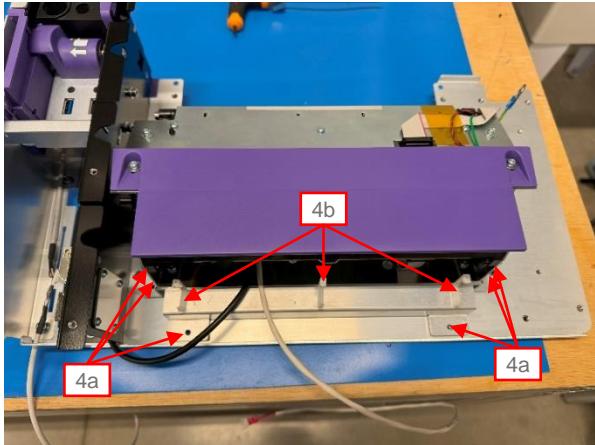


### Step 3:

Note: Leave this mounting location for later step.

# VX~01-00006

## Assembly, Tub Component

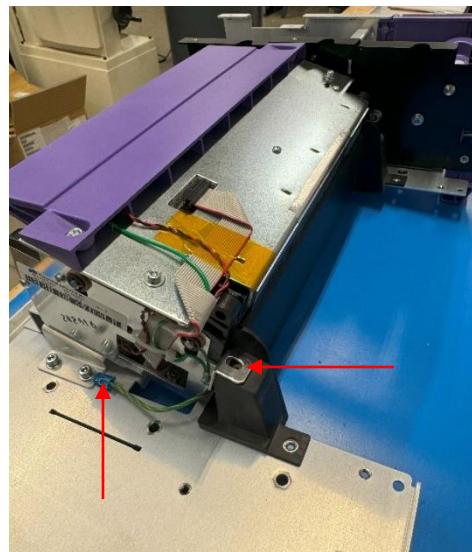


Step 4a:

Mount Scanner with Bracket and Infeed Assembly (VX-01-00009) to Subpanel via 6x M4x0.7x6 SHCS (VX-99-00106) and 6x M4 Washers (VX-99-00113). Apply Loctite 425 to screw threads. Do not fully tighten.

Step 4b:

Press in 3x Hinged Cable Clips (ESSENTRA~WSLC-6-01) as shown.



Step 5:

Place Front Ballot Redirector (VX-02-00036) as shown. Ensure Scanner Mounting Tabs rest on mounting surface of Redirector.

Ensure Scanner Ground Cable (VX-02-00073) is connected to lug as shown.

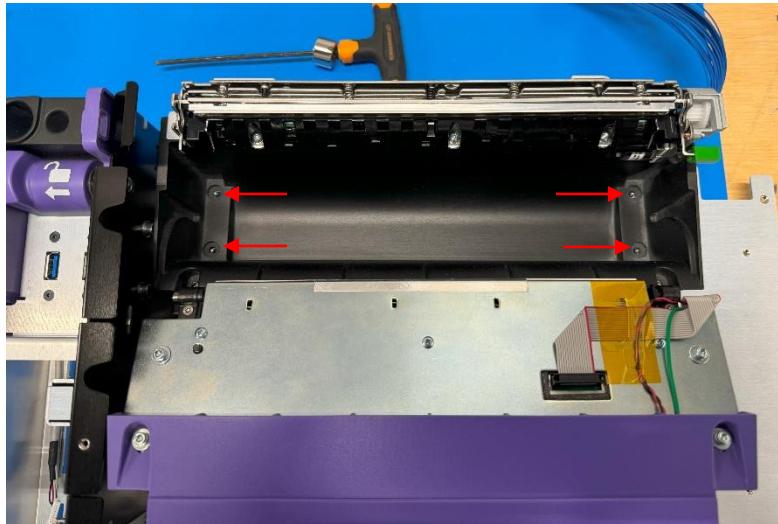


Step 6:

Place Printer with Redirector Assembly (VX-01-00010) onto Subpanel as shown. Ensure alignment boss of Redirector is seated with Front Redirector.

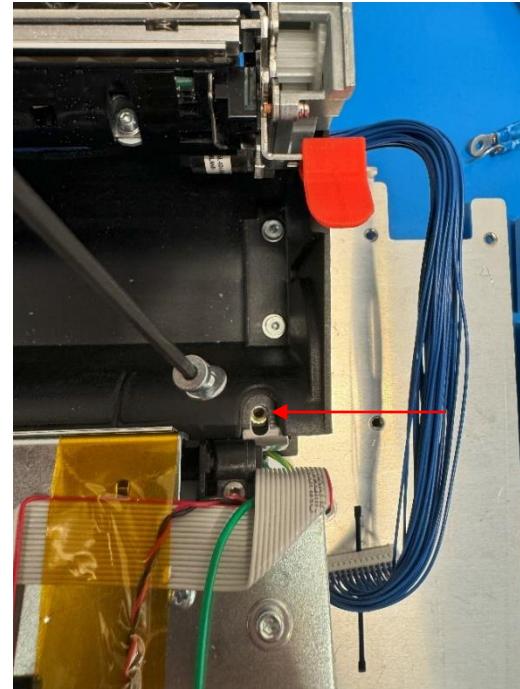
# VX~01-00006

## Assembly, Tub Component



Step 7:

Mount Printer with Redirector Assembly (VX-01-00010) to Subpanel via 4x M4x0.7x10 Low Profile SHCS (VX-99-00110) and 4x M4 Washers (VX-99-00113). Apply Loctite 425 to screw threads.



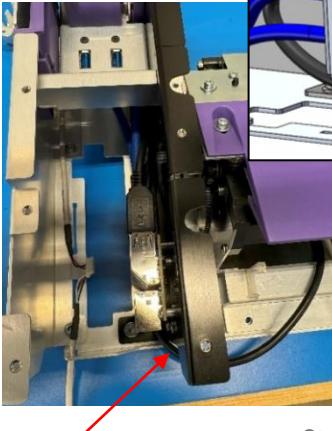
Step 8:

Fasten 2x M4x0.7x10 Low Profile SHCS (VX-99-00110) and 2x M4 Washers (VX-99-00113). Apply Loctite 425 to screw threads.

Fully tighten fasteners from Steps 2 and 4.

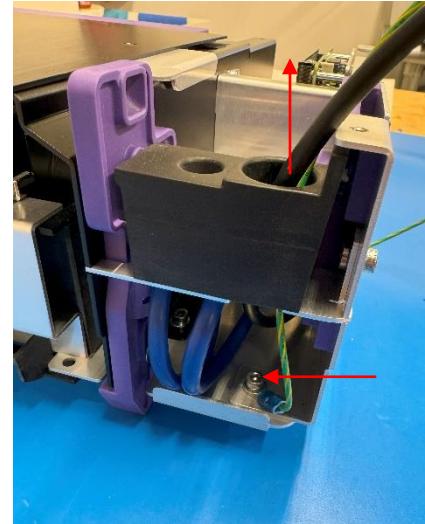
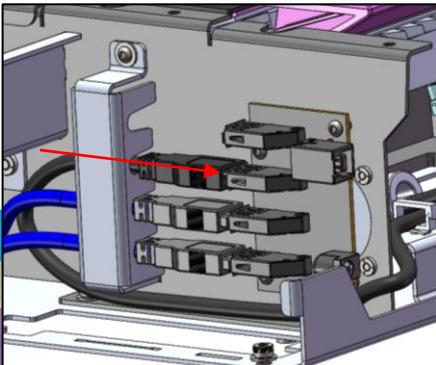
# VX~01-00006

## Assembly, Tub Component



Step 9:

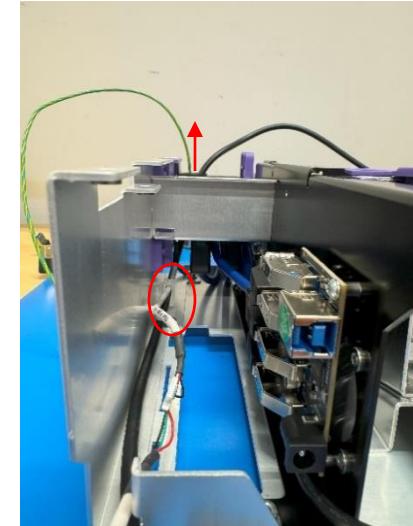
Route Scanner USB Cable across Interior Subpanel Bracket, under USB Hub, and up between Panel Mount USB Cables.



Step 10:

Mount Lid Ground Strap Cable (VX~02-00071) via M4x0.7x6 BHCS (VX~99-00106) and M4 Washer (VX~99-00113). Apply Loctite 425 to screw threads.

Route the Ground Strap Cable up through the Cable Conduit Guide.



Step 11:

Route USB-C Display Cable with Screw Lock (GLOBTEK-USBCW1M0USBC2SLEMBK) as shown. Retain USB-C Cable in Cable Clip and route Straight USB-C end through Cable Conduit Guide.

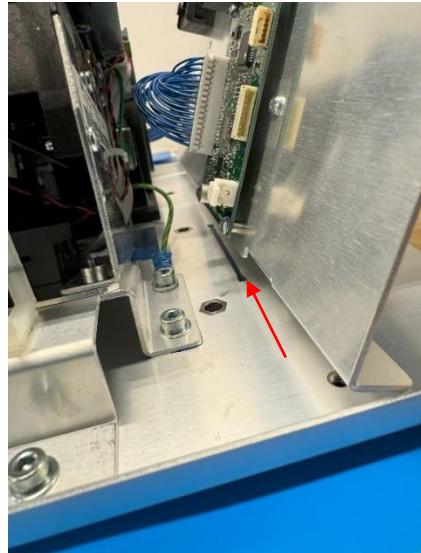
# VX~01-00006

## Assembly, Tub Component



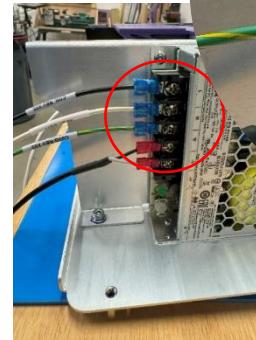
Step 12:

Position Right Subpanel Bracket with 12V PSU (VX~01-00004) on its side and connect Internal Printer Cable (FTP-62EY001-R) to the Printer Control Board as shown.  
Route the cable through the cable clips and lock top hinge.



Step 13:

Insert alignment tab into slot within Subpanel.



Step 14:

Connect Daisy Chain Cables as indicated:

L: Hot Daisy Chain Cable – Black Wire (VX~02-00075)

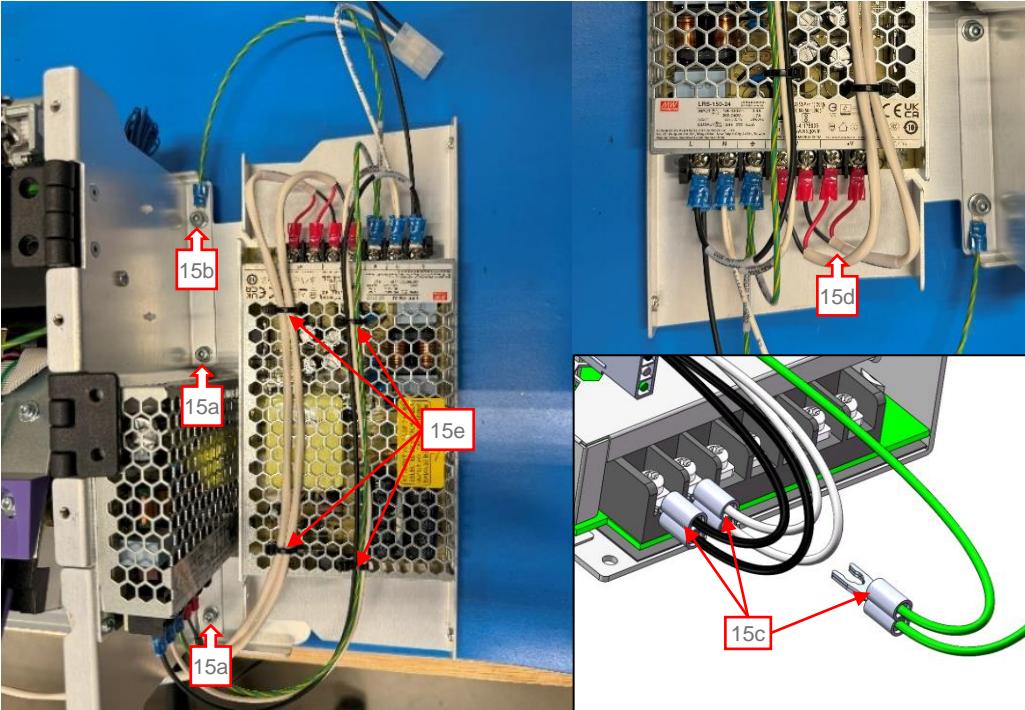
N: Neutral Daisy Chain Cable – White Wire (VX~02-00076)

GND: Ground Daisy Chain Cable – Green/Yellow Wire (VX~02-00074)

Tighten all screw terminals.

# VX~01-00006

## Assembly, Tub Component



### Step 15a:

Fasten 2x M4x0.7x6 SHCS (VX-99-00106) with 2x M4 Washers (VX-99-00113). Apply Loctite 425 to screw threads.

### Step 15b:

Mount Ground Wire of Power Entry Stage 2 Jumper Harness (VX-02-00070) to Subpanel via M4x0.7x6 SHCS (VX-99-00106) with M4 Washer (VX-99-00113). Apply Loctite 425 to screw threads.

### Step 15c:

Position 24V Power Supply as shown and loosen all screw terminal blocks. Connect the following cables to 24V Power Supply Inputs as indicated:

- L: Hot Daisy Chain Cable (VX-02-00075) and Power Entry Stage 2 Jumper Harness – Black Wire (VX-02-00070)
- N: Neutral Daisy Chain Cable (VX-02-00076) and Power Entry Stage 2 Jumper Harness – White Wire (VX-02-00070)
- GND: Ground Daisy Chain Cable (VX-02-00074) and Power Supply Ground Cable (VX-02-00072)

Note: Two wires are connected to each L, N, and GND terminal block. Insert into each terminal block by positioning spade connectors back-to-back, ensuring that the Daisy Chain Cables are positioned on top (screw-side). Tighten all Input screw terminals.

### Step 15d:

Connect the following cables to 24V Power Supply Outputs as indicated (from Left to Right):

- V: Printer Power Cable – Black Wire (VX-02-00078)
- V: Scanner Power Cable – Black Wire (VX-02-00077)
- +V: Printer Power Cable – Red Wire (VX-02-00078)
- +V: Scanner Power Cable – Red Wire (VX-02-00078)

Tighten all Output Screw Terminals.

### Step 15e:

Route all cables as indicated and secure to 24V Power Supply Cage via 4x Cable Ties (VX-99-00104). Trim excess cable tie length.

# VX~01-00006

## Assembly, Tub Component



Step 16a:

Position the Right Subpanel Bracket Assembly (VX~01-00002) and fasten to Subpanel via M4x0.7x6 SHCS (VX~99-00106) with M4 Washer (VX~99-00113). Apply Loctite 425 to screw threads.

Step 16b:

Fasten via M3x0.5x5 BHCS (VX~99-00120) and M3 Washer (VX~99-00131). Apply Loctite 425 to screw threads.

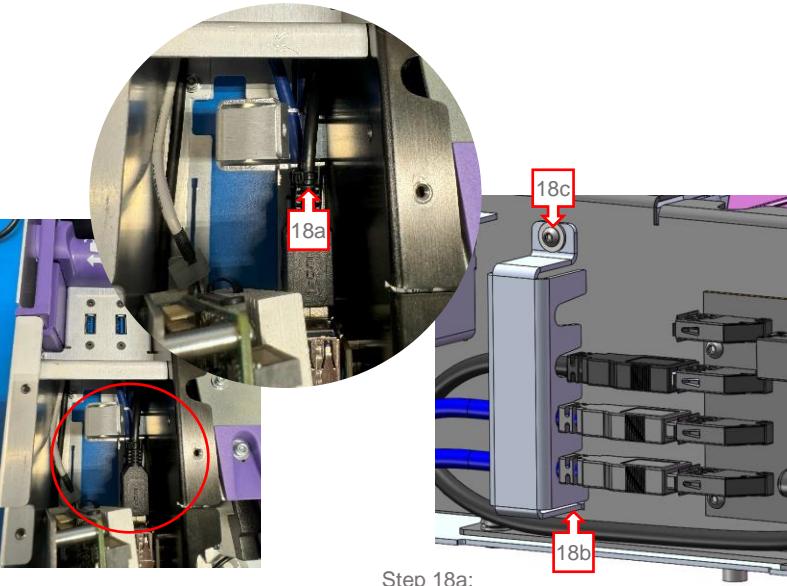


Step 17:

Mount Power Supply Ground Cable (VX~02-00072) to Chassis Ground via M4x0.7x6 SHCS (VX~99-00106) with M4 Washer (VX~99-00113). Apply Loctite 425 to screw threads.

# VX~01-00006

## Assembly, Tub Component



Step 18a:

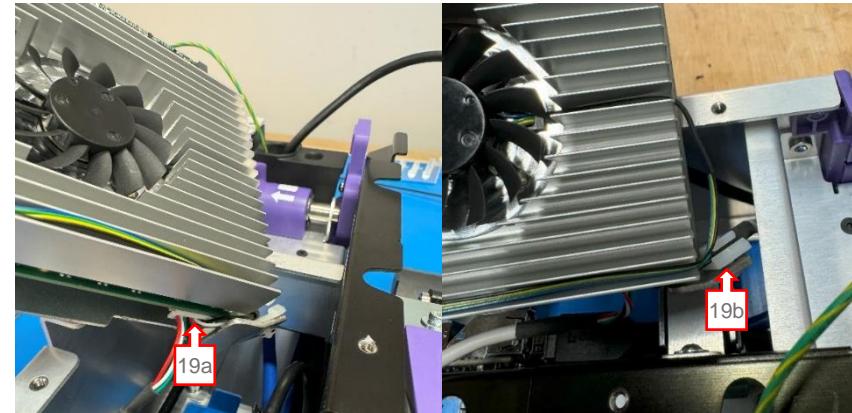
Add cable tie to end of Scanner USB Cable overmold and trim excess cable tie length.

Step 18b:

Toe-in the bottom of the USB Cable Bracket (VX~02-00022) and route USB cables M3x0.5x8 BHCS (VX~99-00121) and M3 Oversized Washer (VX~99-00111). Route cables through USB Cable Bracket as shown.

Step 18c:

Fasten via M3x0.5x8 BHCS (VX~99-00121) and M3 Oversized Washer (VX~99-00111).  
Apply Loctite 425 to screw threads.



Step 19a:

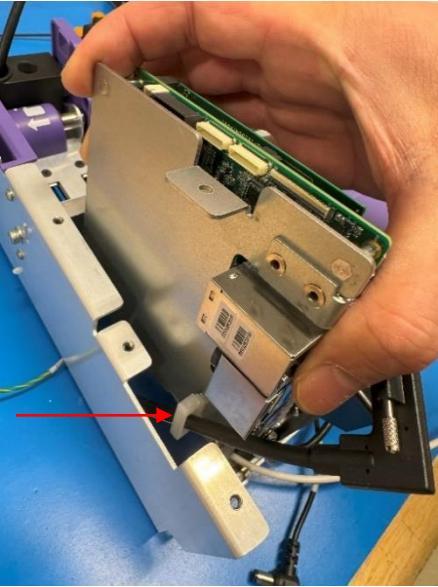
Connect SBC to Card Reader Cable (VX-02-00080) 10-pin connector to SBC Assembly (VX~01-00008).

Step 19b:

Route the 4-position cable (HID Card Reader Side) through guide and insert into Side Entry Cable Clip as shown.

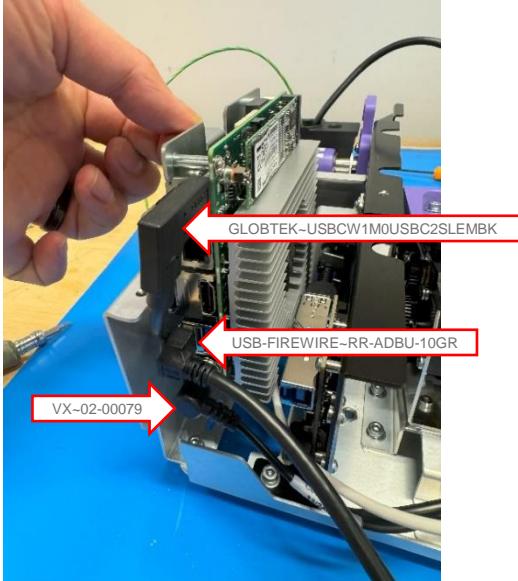
# VX~01-00006

## Assembly, Tub Component



Step 20:

Hold SBC Assembly in place and insert USB-C Cable into Hinged Cable Clip as shown.



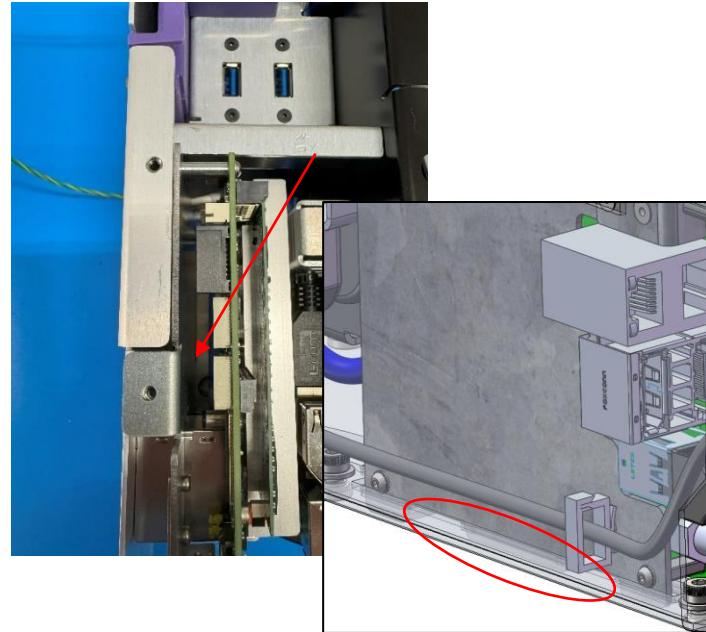
Step 21:

Connect the following cable ends to the SBC Assembly as indicated:

USB-C Left Angle, Screw Lock Cable  
(GLOBTEK-USBCW1M0USBC2SLEMBK)

USB 3.0, A to B Cable (USB-FIREWIRE-RR-ADBU-10GR)

SBC 12V Power Cable (VX-02-00079)

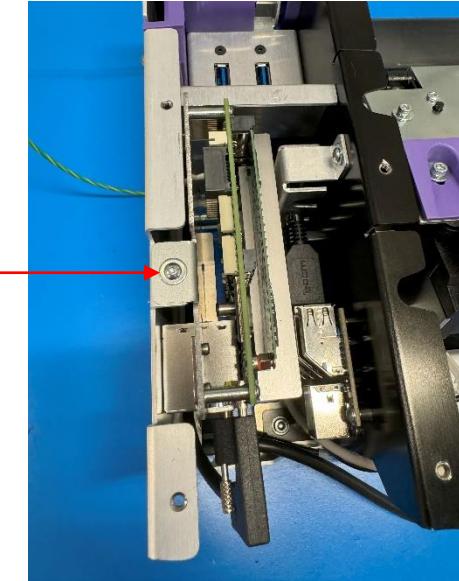


Step 22:

Align tab of SBC Bracket with locating slot within Subpanel until SBC Assembly is fully seated.

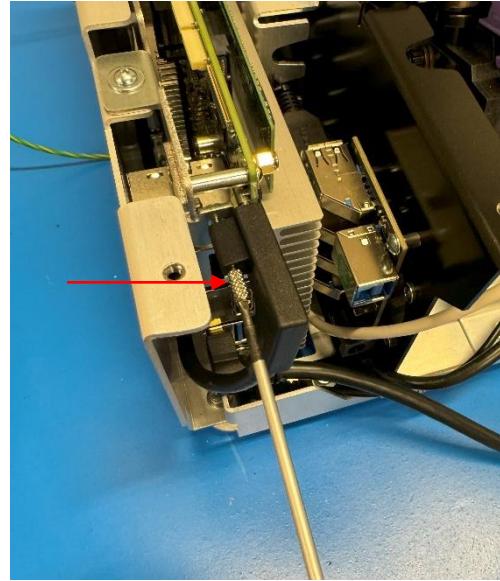
# VX~01-00006

## Assembly, Tub Component



Step 23:

Secure SBC Assembly to Left Bracket Assembly via M3x0.5x8 BHCS (VX-99-00121) and M3 Oversized Washer (VX-99-00111). Apply Loctite 425 to screw threads.



Step 24:

Tighten USB-C Left Angle Connector screw lock.

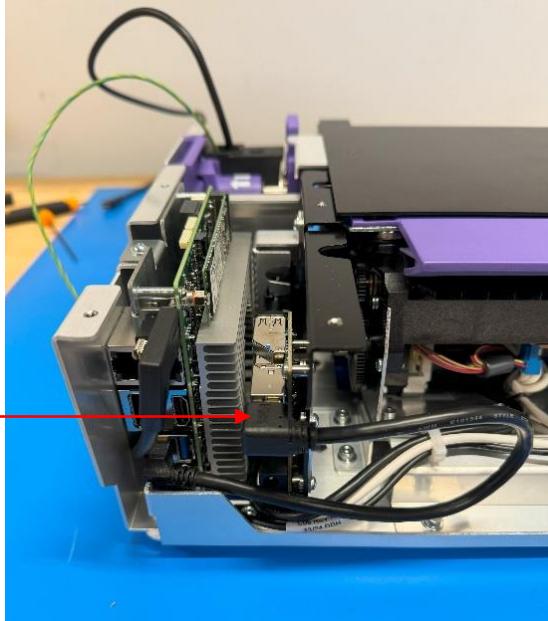


Step 25:

Ensure Subpanel tab is positioned directly behind USB-A Connector overmold.

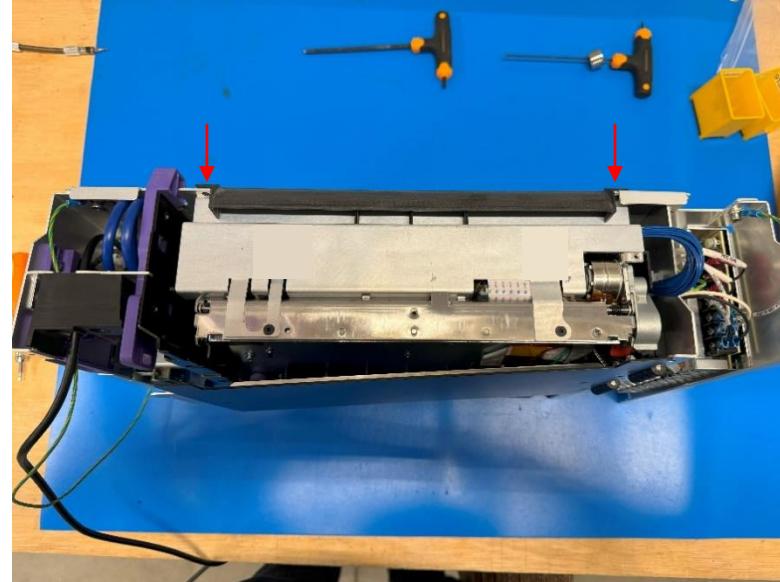
# VX~01-00006

## Assembly, Tub Component



Step 26:

Connect USB3.0 B Cable End to USB Hub and route as shown.

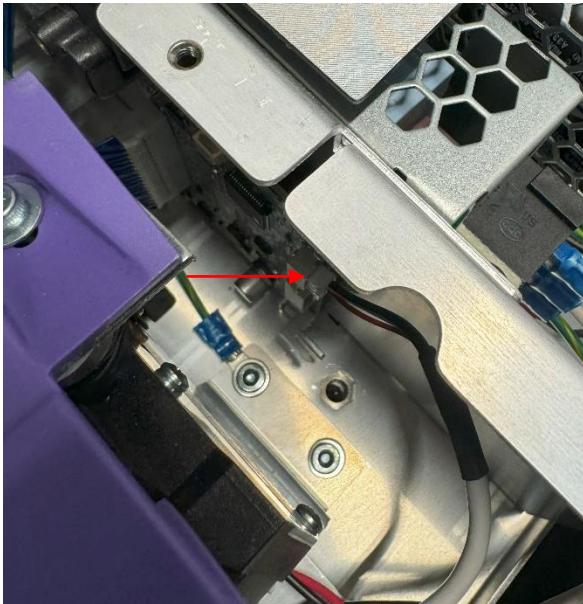


Step 27:

Stand Tub Component Assembly onto its front face. Snap Back Lockout in place as shown.

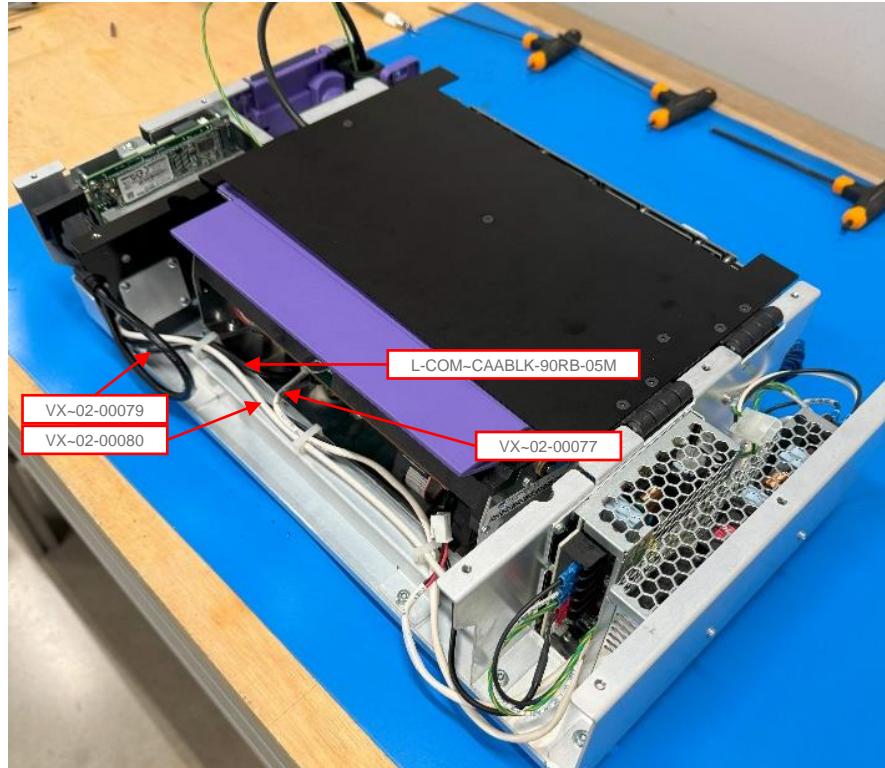
# VX~01-00006

## Assembly, Tub Component



Step 28:

Connect SBC to Printer Control Board Cable (VX-02-00080) to Printer Control Board as shown.



Step 29:

Route cables through the 3x Hinged Cable Clips as Shown.

# VX~01-00018, Assembly, MCM Case

# VX~01-00018

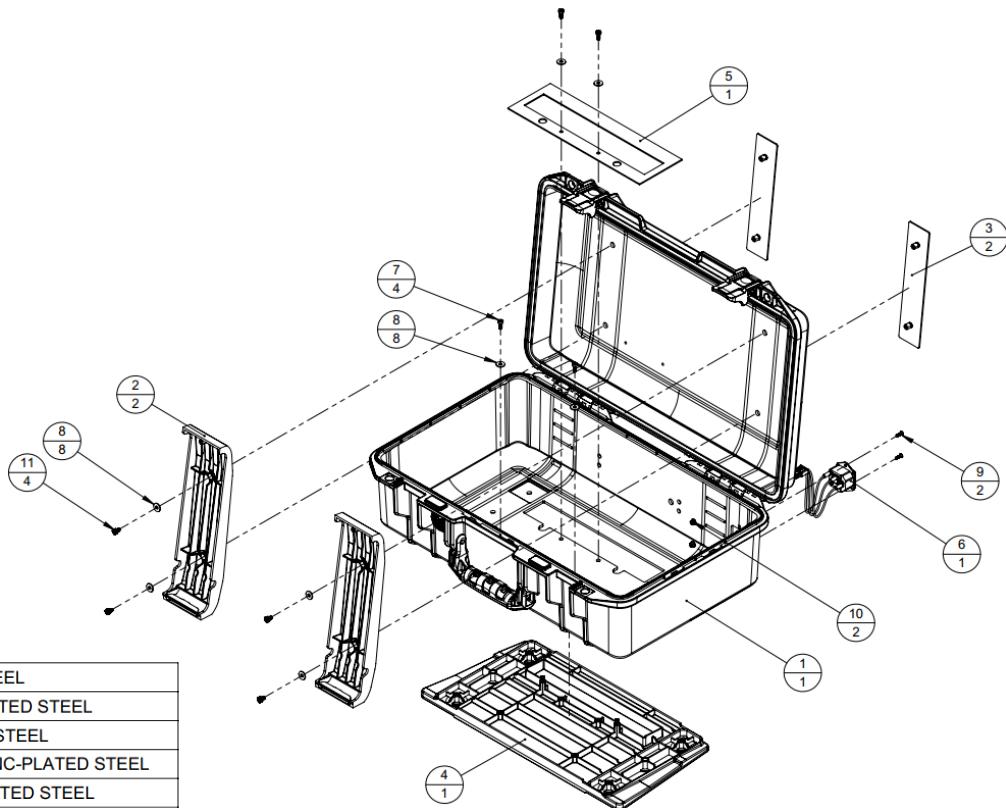
## Assembly, MCM Case

### Tools/Supplies Required:

- 2.5mm Ball End Hex Driver, T-Handle, Magnetic, 6" Overall Length
- 3mm Hex Driver
- Loctite 425

### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
11	4	VX-99-00106	M4X0.7PX6L, SHCS, ZINC-PLATED STEEL
10	2	VX-99-00127	M3X0.5P, NUT, SERRATED FLANGE, ZINC-PLATED STEEL
9	2	VX-99-00119	M3X0.5PX10L, FHCS, 90°, BLACK-OXIDE STEEL
8	8	VX-99-00112	WASHER, OVERSIZED, M4, 4.4MM ID, 11.7MM OD, ZINC-PLATED STEEL
7	4	VX-99-00110	M4X0.7PX10L, SHCS, LOW-PROFILE, ZINC-PLATED STEEL
6	1	VX-02-000069	POWER ENTRY STAGE 1, MODULE JUMPER
5	1	VX-02-000056	LOCKOUT SLIDER
4	1	VX-02-00019	FOOT
3	2	VX-02-000063	ATTACHMENT PLATE, LID
2	2	VX-02-000064	DISPLAY BRACKET MOUNT, LID
1	1	VX-02-000068	PELICAN 1485 WITH MODIFICATIONS



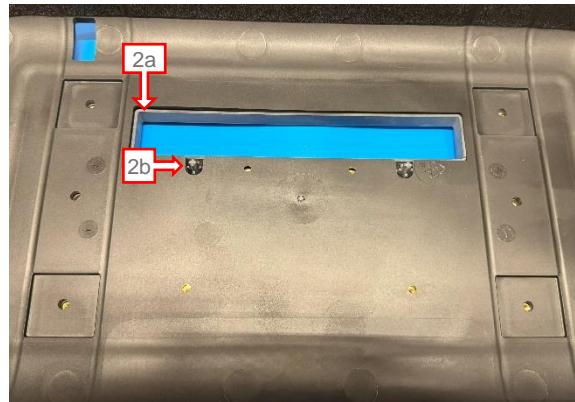
# VX~01-00018

## Assembly, MCM Case



### Step 1:

Set foot (VX-02-00019) on flat surface. Place modified Pelican case (VX-02-00068) on top of foot and press down firmly until case is seated.

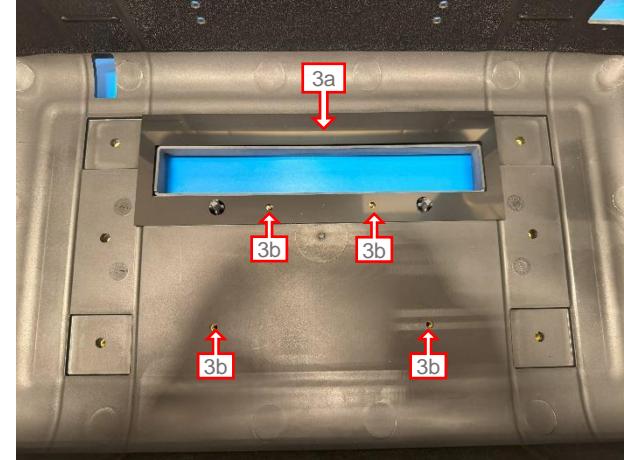


### Step 2a:

Ensure shroud opening of foot is nested within slot of Pelican case.

### Step 2b:

Ensure 2x alignment bosses and support ribs pass through Pelican case cutouts as indicated.



### Step 3a:

Lay lockout slider plate (VX-02-00056) into place. The lockout slider aligns via alignment bosses and foot shroud.

### Step 3b:

Fasten using 4x M4x0.7x10 Low-Profile SCHS (VX-99-00110) and 4x M4 Oversized Washers (VX-99-00112). Apply Loctite 425 to all screw threads.

# VX~01-00018

## Assembly, MCM Case



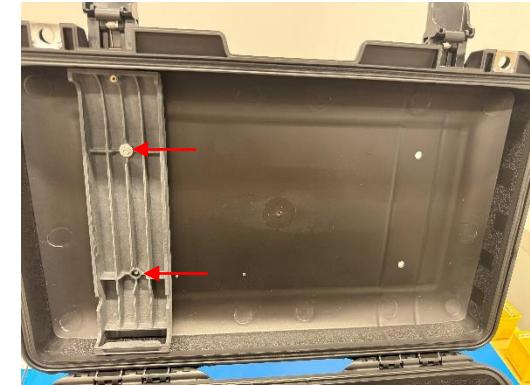
### Step 4:

Lay Lid Attachment Plate (VX~02-00063) into place as shown and hold in place with free hand.



### Step 5:

While holding the Lid Attachment Plate in place with free hand, align threaded standoffs with Display Bracket Mount (VX~00064).



### Step 6:

Fasten using 2x M4x0.7x6 SCHS (VX~99-00106) and 2x M4 Oversized Washers (VX~99-00112). Apply Loctite 425 to all screw threads.  
Repeat Steps 4-6 for the right side.

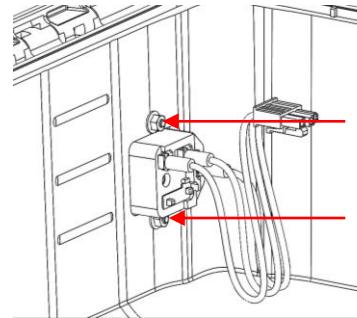
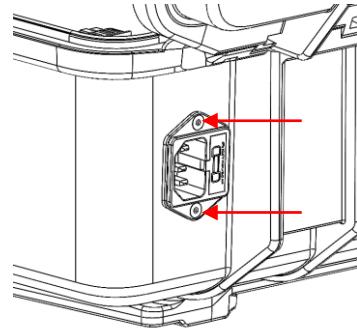
# VX~01-00018

## Assembly, MCM Case



### Step 8:

Position the Power Entry Module Jumper (VX~02-00069) with the fuse holder biased inward as shown.



### Step 9:

Fasten using 2x M3x0.5x10 Flat Head Screws (VX~99-00119) and 2x M3x0.5 Serrated Flanged Nuts (VX~99-00127). Apply Loctite 425 to all screw threads.

VX~01-00001 Assembly, VxScan 4

# VX~01-00001

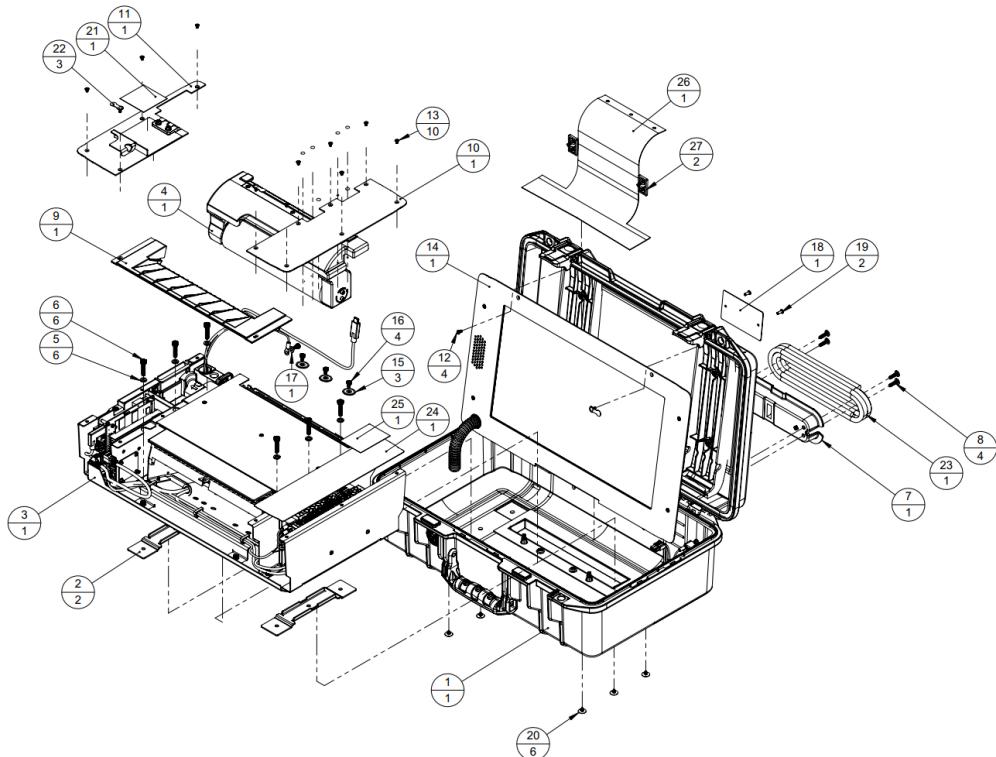
## Assembly, VxScan 4

### Tools/Supplies Required:

- 2mm Hex Driver
- 2.5mm Hex Driver
- 3mm Ball End Hex Driver, T-Handle, Magnetic, 6" Overall Length
- 4mm Ball End Hex Driver, T-Handle, Magnetic, 6" Overall Length
- Loctite 425 Thread-Locking Adhesive
- Side cutting pliers
- Rivet Gun

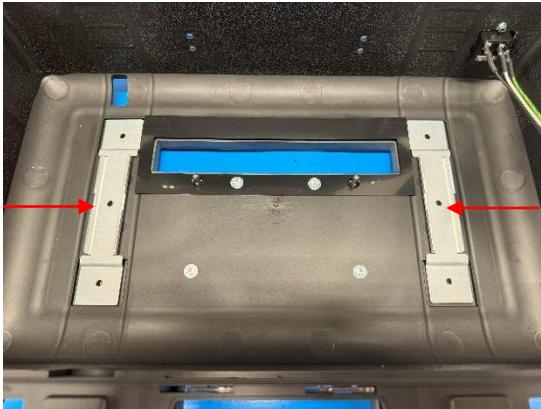
### Parts in Subassembly:

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
27	2	VX-02-00038	CABLE WRAP SHIM
26	1	VX-02-00062	LOCKOUT FLEX
25	1	VX-02-00095	LABEL, HIGH VOLTAGE
24	1	VX-02-00066	HIGH VOLTAGE GUARD
23	1	CUI-AC-C13 NA	AC POWER CORD, C13, 18AWG, 6"
22	3	VX-99-00094	SEAL, TAMPER EVIDENT, BARBELL
21	1	VX-02-00093	LABEL, POLL WORKER DOOR
20	6	ESSENTRA-167204069902	PUSH-IN BARBED RIVET, NYLON
19	2	VX-99-00137	RIVET, BLIND, 0.3125" DIA, BLACK
18	1	VX-02-00067	NAMEPLATE, V4
17	1	VX-99-00113	WASHER, M4, ZINC-PLATED STEEL
16	4	VX-99-00106	M4X0.7PX6L, SHCS, ZINC-PLATED STEEL
15	3	VX-99-00133	WASHER, OVERSIZED, NO.8, 0.172"ID, 0.75"OD, BLACK-OXIDE
14	1	VX-01-00015	ASSEMBLY, LID
13	10	VX-99-00117	M3X0.5PX5L, FHCS, 90°, BLACK OXIDE STEEL
12	4	VX-99-00118	M3X0.5PX8L, FHCS, 90°, BLACK-OXIDE STEEL
11	1	VX-01-00013	ASSEMBLY, PANEL, MAIN, LEFT WITH HINGE
10	1	VX-02-00051	PANEL, MAIN, RIGHT
9	1	VX-02-00054	INFEED TRAY, BOTTOM
8	4	VX-99-00136	M4X0.6PX16L, BHCS, FLANGED, BLACK-OXIDE STEEL
7	1	VX-02-00065	POWER CORD WRAP
6	6	VX-99-00109	M5X0.8PX22L, SHCS, ZINC-PLATED STEEL
5	6	VX-99-00114	WASHER, M5, ZINC-PLATED STEEL
4	1	VX-01-00011	ASSEMBLY, PAPER ROLL HOLDER
3	1	VX-01-00006	ASSEMBLY, TUB
2	2	VX-02-00057	BASE SUBPANEL SHIM
1	1	VX-01-00018	ASSEMBLY, VXSCAN V4
ITEM NO. QTY. PART NUMBER DESCRIPTION			



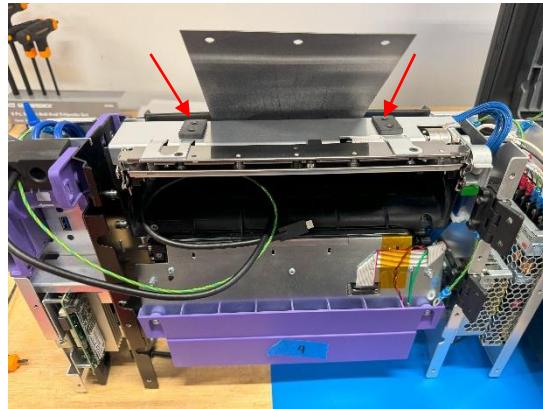
# VX~01-00001

## Assembly, VxScan 4



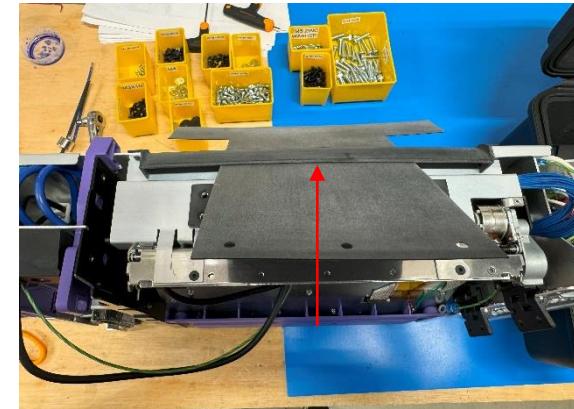
Step 1:

Place 2x Base Subpanel Shims (VX~02-00057) into position as shown.



Step 2:

Stand Tub Assembly (VX~01-00006) on its front face and press in 2x Cable Wrap Shims (VX~02-00038) into place as shown.

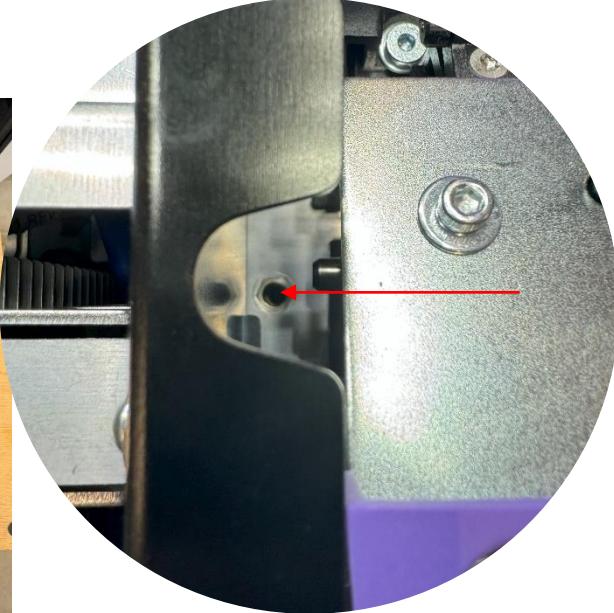
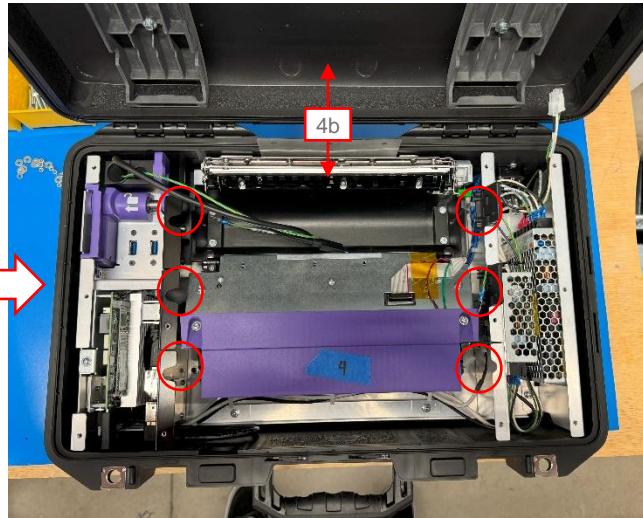
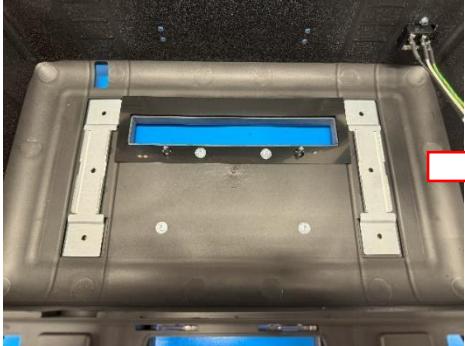


Step 3:

Insert Lockout Flexplate (VX~02-00062) into place as shown.

# VX~01-00001

Assembly, VxScan 4



#### Step 4a:

Lift Tub Assembly and lower into MCM Case Assembly (VX~01-000018).

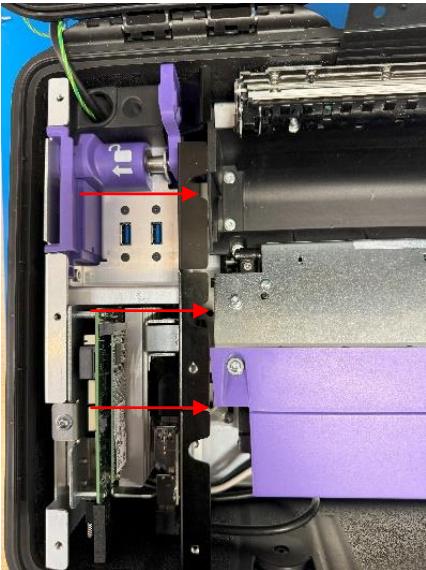
Note: Ensure 6x M5 mounting holes are not obstructed by the Base Subpanel Shims. If obstructed, use a T-handle Hex Driver to reach down into hole and clear.

#### Step 4b:

Ensure Lockout Flexplate is properly seated by lightly pulling up and pushing down with minimal resistance.

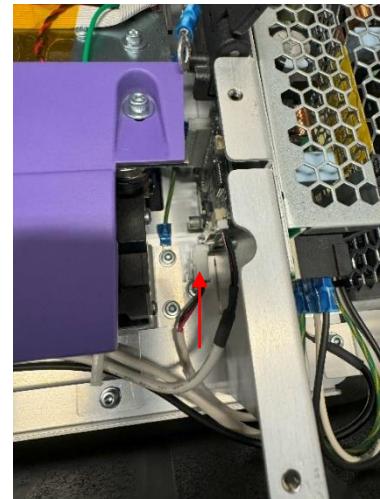
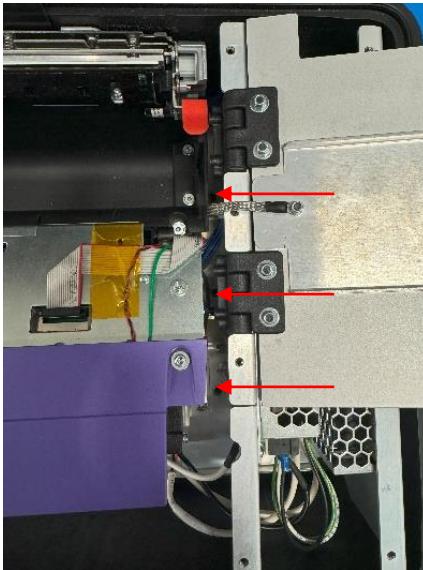
# VX~01-00001

## Assembly, VxScan 4



Step 5:

Mount Tub Assembly to MCM Case Assembly via 6x M5x0.8x22 SHCS (VX~99-00109) and M5 Washers (VX~99-00114). Apply Loctite 425 to all screw threads.



Step 6:

Connect Printer Power Cable (VX~02-00078) to Printer Control Board.

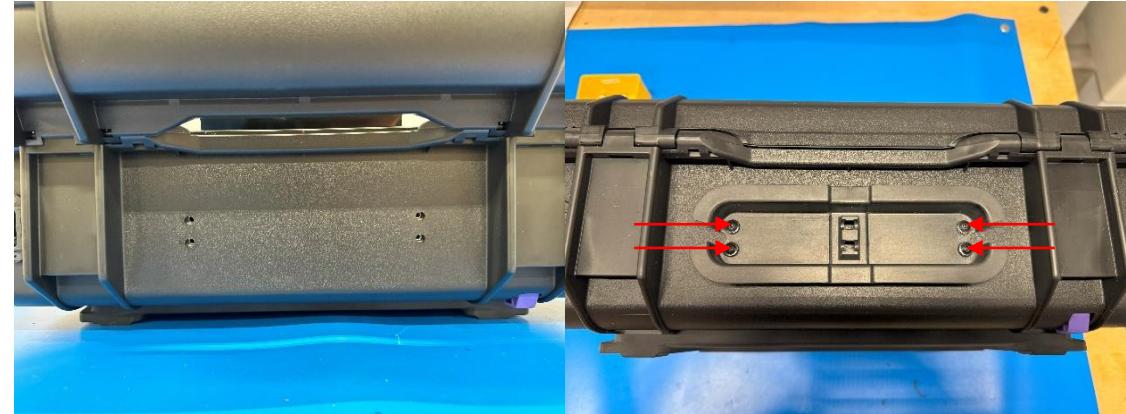
# VX~01-00001

## Assembly, VxScan 4



Step 7:

Connect Power Entry Module Stage 1 (VX~02-00069) Connector to Jumper Harness Stage 2 (VX~02-00070) as shown.

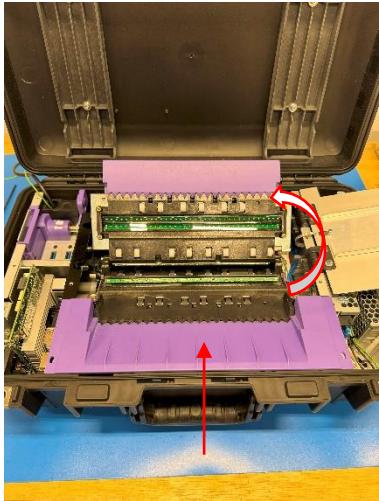


Step 8:

Mount Power Cord Wrap (VX~02-00065) via 4x M4x0.7x16 Flanged BHCS (VX~99-00136). Apply Loctite 425 to all screw threads.

# VX~01-00001

## Assembly, VxScan 4



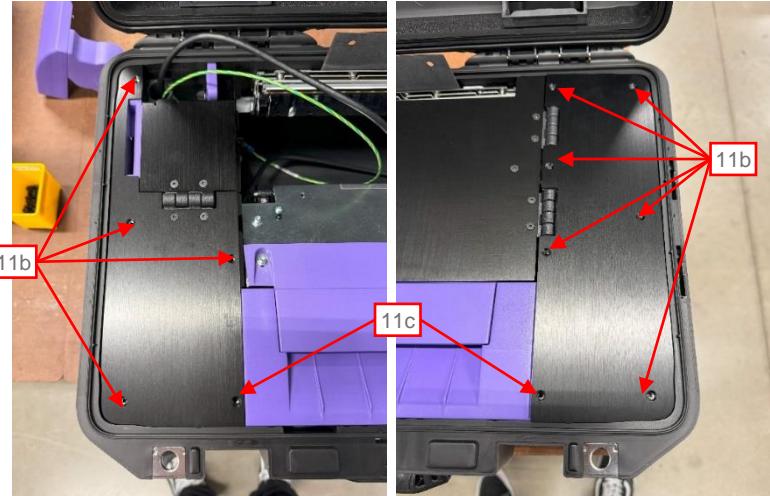
Step 9:

Open scanner lid and place Bottom Infeed Tray (VX~02-00054) into position as shown.



Step 10:

Affix High Voltage Label (VX~02-00095) onto High Voltage Guard (VX~02-00066) and place into position as shown.



Step 11a:

Place Right Main Panel (VX~02-00051) and Left Hinged Main Panel Assembly (VX~01-00013) into position as shown.

Step 11b:

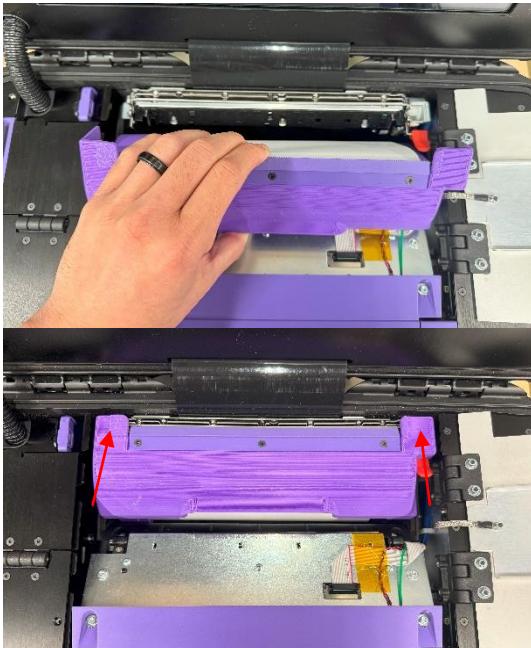
Fasten Panels to Assembly via 10x M3x0.5x5 FHCS (VX~99-00117).  
Apply Loctite 425 to all screw threads.

Step 11c:

Secure Top Infeed Tray by fastening 2x M3x0.5x8 FHCS (VX~99-00118). Adjust seam gaps to within 1mm by adjusting panels laterally before tightening. Apply Loctite 425 to all screw threads.

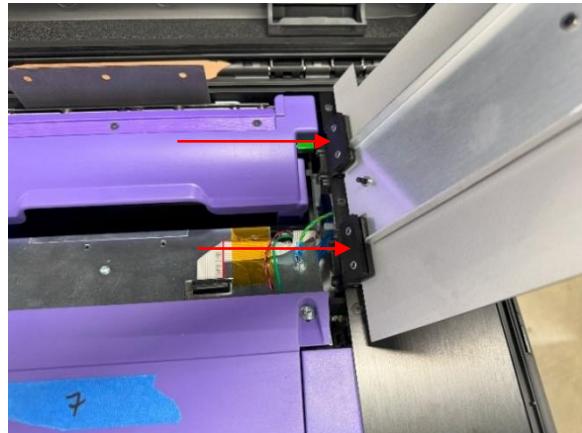
# VX~01-00001

## Assembly, VxScan 4



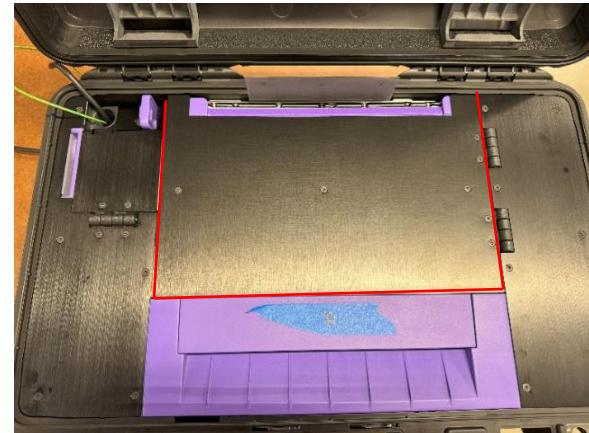
Step 12:

Install Paper Roll Holder Assembly (VX~01-00011) into the main assembly by lowering into position and pressing firmly on sides until audibly seated.



Step 13:

Attach Assembly Jigs to Poll Worker Hinge Locknuts. The Assembly Jigs will constrain the Hinge Locknuts and allow the 4x M3x0.5x10 FHCS (VX~99-00110) to be tightened from top side.



Step 14:

Adjust Seam Gaps around indicated edges of Printer Panel to within 1.00mm.

Tighten 4x M3x0.5x10 FHCS (VX~99-00110) and remove Assembly Jigs.

# VX~01-00001

## Assembly, VxScan 4



Step 15:

Lay Lid Assembly (VX-01-00015) face down on Tub Assembly. Place foam cushioning between Assemblies to prevent damage to cosmetic surfaces.



Step 16:

Route Lid Ground Cable and USB-C Display Cable through Cable Conduit as shown.

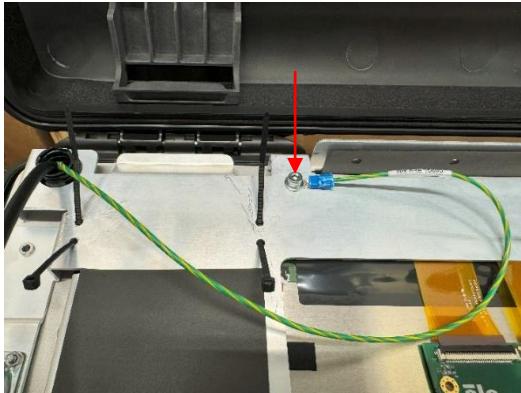


Step 17:

Feed loose end of Cable Conduit into Display Cable Guide as shown.

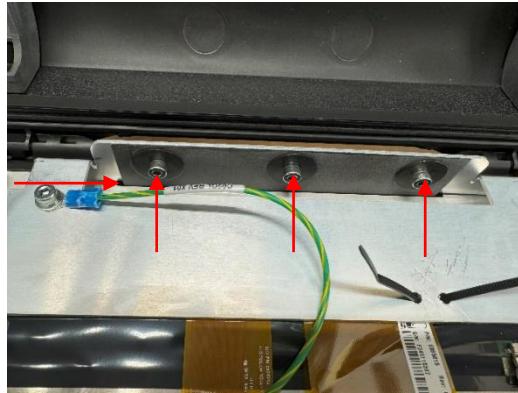
# VX~01-00001

## Assembly, VxScan 4



Step 18:

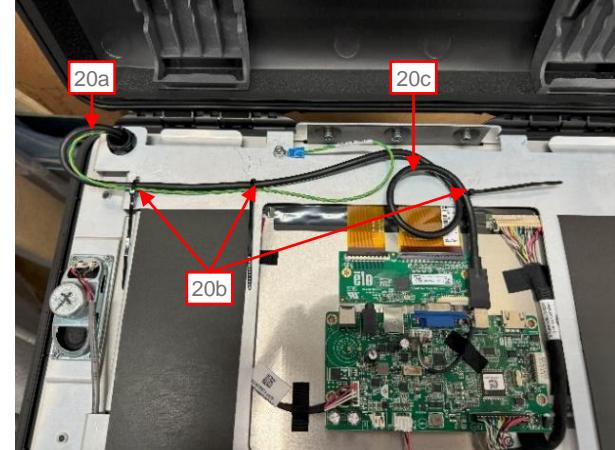
Mount Lid Ground Cable (VX~02-00071) to Display Bracket via M4x0.7x6 SHCS (VX~99-00106) with M4 Washer (VX~99-00113) as shown. Apply Loctite 425 to screw threads.



Step 19:

Adjust Lid Assembly so that the Lockout Flexplate is routed through indicated slot.

Secure Lockout Flexplate to Display Bracket via 3x M4x0.7x6 SHCS (VX~99-00106) with 3x NO.8 Oversized Washers (VX~99-00133) as shown. Apply Loctite 425 to screw threads.



Step 20a:

Route Lid Ground Cable and USB-C Display Cable as shown, leaving sufficient service loop on Conduit side.

Step 20b:

Loop excess USB-C Display Cable length as shown.

Step 20c:

Secure Cables to Display Bracket via 3x Cable ties and trim excess length.

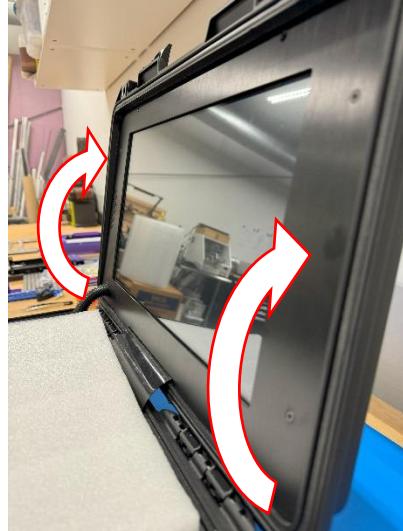
# VX~01-00001

## Assembly, VxScan 4



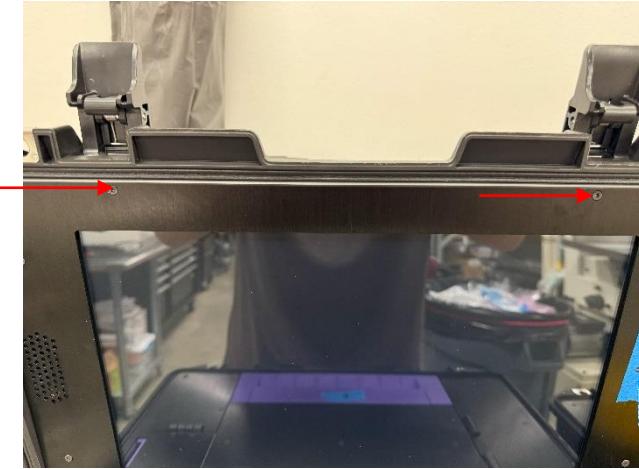
Step 21:

Align LH and RH Display Bracket toe-in features with Lid Display Bracket Mounts.



Step 21:

Rotate Lid Assembly back until seated within Pelican Case Lid.

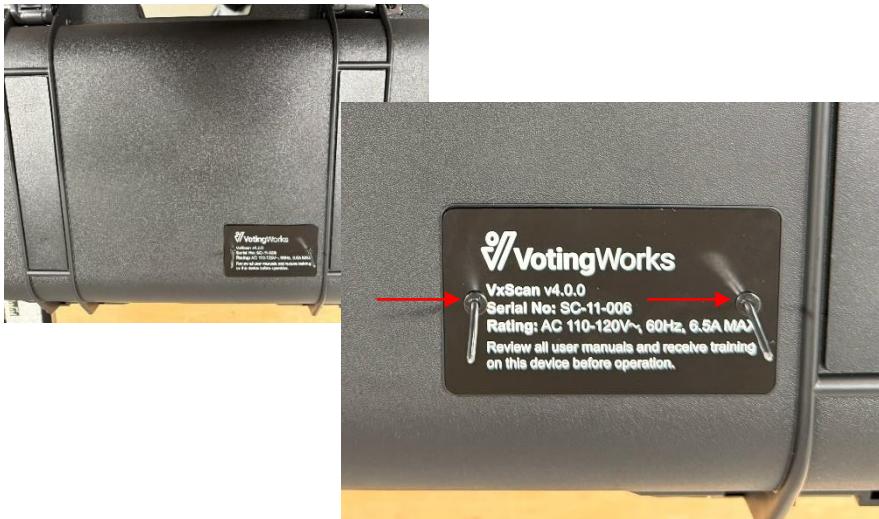


Step 22:

Mount Lid Assembly via 2x M3x0.5x5 FHCS (VX-99-00117) as shown. Apply Loctite 425 to screw threads.

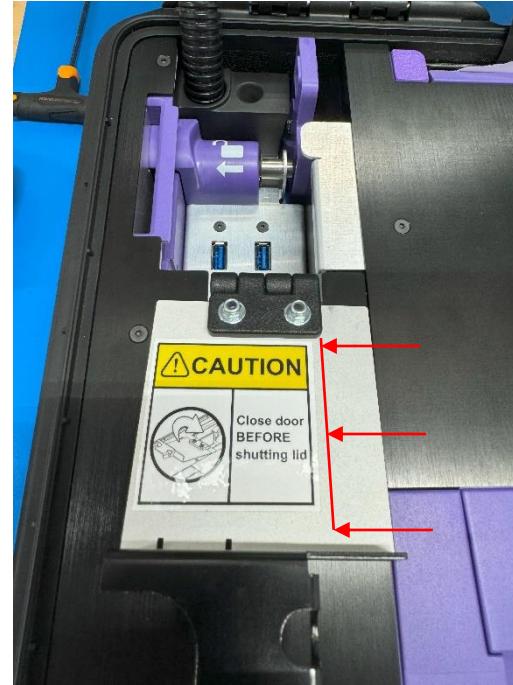
# VX~01-00001

## Assembly, VxScan 4



### Step 23:

Place V4 Nameplate (VX~02-00067) into position as shown. Fasten to Pelican Case via 2x 0.3125" Blind Rivets (VX~99-00137).



### Step 24:

Affix Poll Worker Door Label (VX~02-00093) to Poll Worker Door. Ensure the right-edge of label remains left of Hinge right-edge as indicated.

# VX~01-00001

Assembly, VxScan 4



Step 25:

Insert 6x Push-In Barbed Rivets  
(ESSENTRA-164204069902) into M5 threads of Foot.



Step 26:

Wrap AC Power Cord (CUI-AC-C13-NA) as shown.



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