


Avolites LTD Engineering Change Notice

ECN title	D7 USB-C Clamps		
ECN Number	ECN-0225		
Related Products	D72-00001 – D72-00487 D73-00001 – D73-00114		
Date / Author	25/04/2026	GK	
Reasons for ECN	Ensuring a more reliable holding of the internal USB-C LCD panel connection		
Parts required	1x Sems SCREW M3 X 8 PAN SUPA ZN/CLR (0210-2082-SM) 6x Socket Head Button Screw M3 x 8mm (0210-2088) 13x Socket Head Button Screw M3 x 5mm (0210-2089) 2x SCREW M3 X 12 PAN SUPA Z/CLR (0210-2122) 4x SCREW SEMS M4X8 PAN SUPA BLACK (0210-4082BSM) 1x SCREW M4 X 8 CSK POZI BLACK (0210-4083B) 2x NUT M3 NYLOC Z/CLR (0213-1240) 1x CABLE TIE 98x 2.5 Black (04-03-0043) 1x D7-USB-C Clamps 3d printed support set (1358-0161) 1x Manual ECN-0225 (8200-0225M)		
Tools required	Drivers: PZ1, PZ2, 2mm HEX Side cutters		
Estimated time	55 Minutes		

Introductory information:

- *In this document the D7-USB-C Clamps are coloured red for better contrast in photos. The included clamps are black.*
- *The instructions are written for the D7-215, therefore some screw counts in the instructions differ from the D7-330.*

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1. Safety

Switch off the console and disconnect it from the mains supply and other connections.

Make sure you do the work in a well lit work environment and have the console on a steady work surface.

2. LCD Panel disassembly

- a. Remove the LCD panel cover screws in the following order. Only remove the indicated screws.

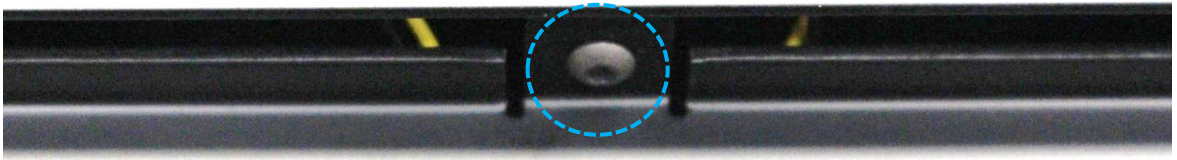
1st – front, above LCD screw(s) - Socket Head Button Screw M3 x 5mm (0210-2089)

2nd – **side screws** - 6x Socket Head Button Screw **M3 x 8mm (0210-2088)**

3rd – back screws - Socket Head Button Screw M3 x 5mm (0210-2089)

4th - bottom screws - Socket Head Button Screw M3 x 5mm (0210-2089)

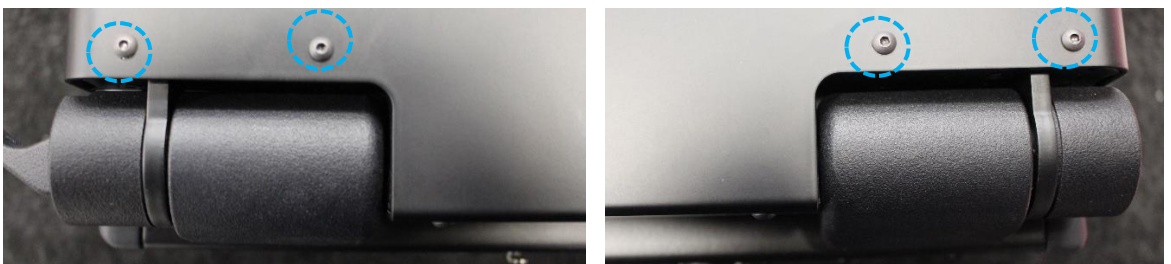
1st 2x (D7-330) or 1x (D7-215) screws in the front above the LCD screens



2nd – 3x screws on both sides



3rd – 4x screws at the back



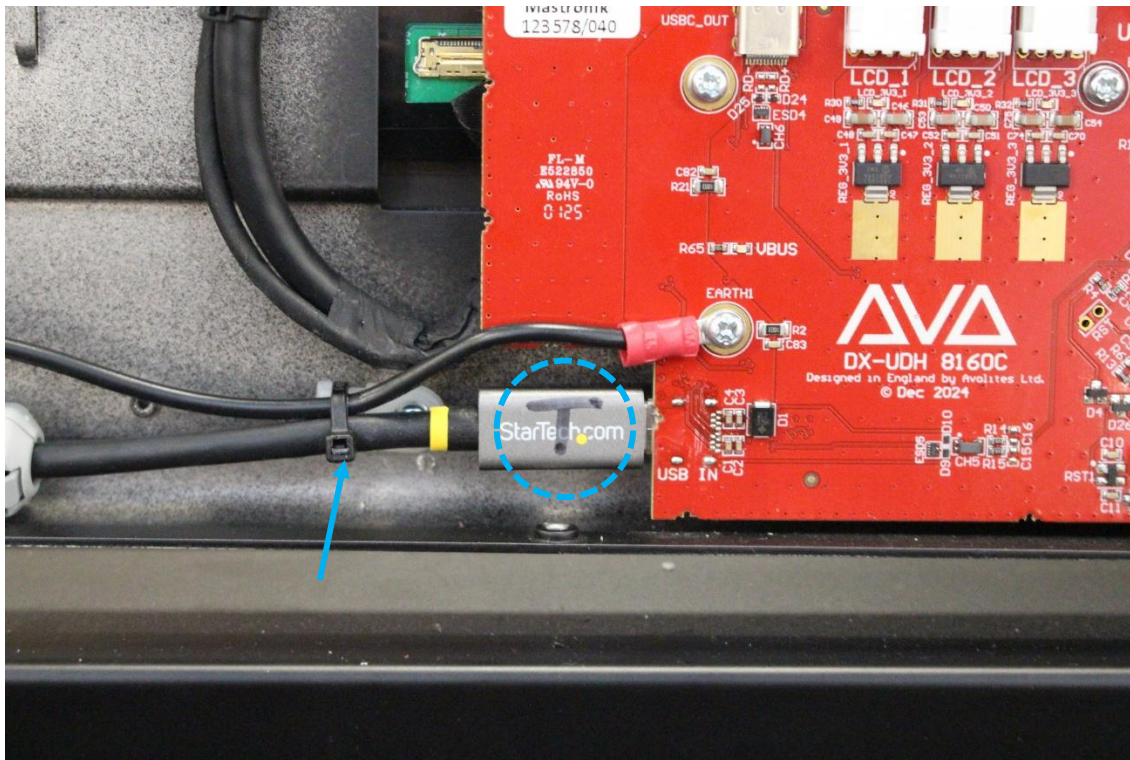
4th – 7x (5x) screws at the bottom



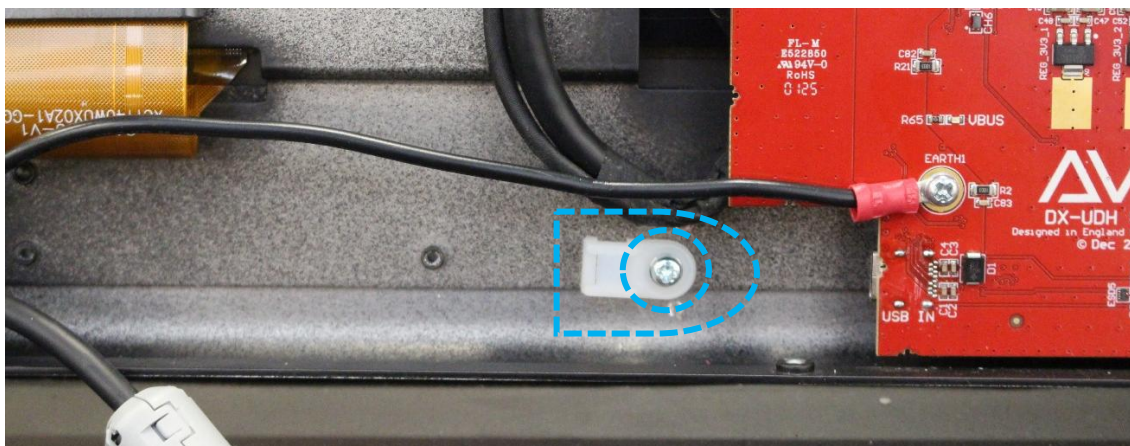
- b. Disconnect the 3x (2x) from Desk Lamp looms from **DL_1 DL_2** and **DL_3** ports on DX-UDH board
- c. Remove the LCD Cover

3. Installing the USB-C cable holder at the end of the DX-UDH board

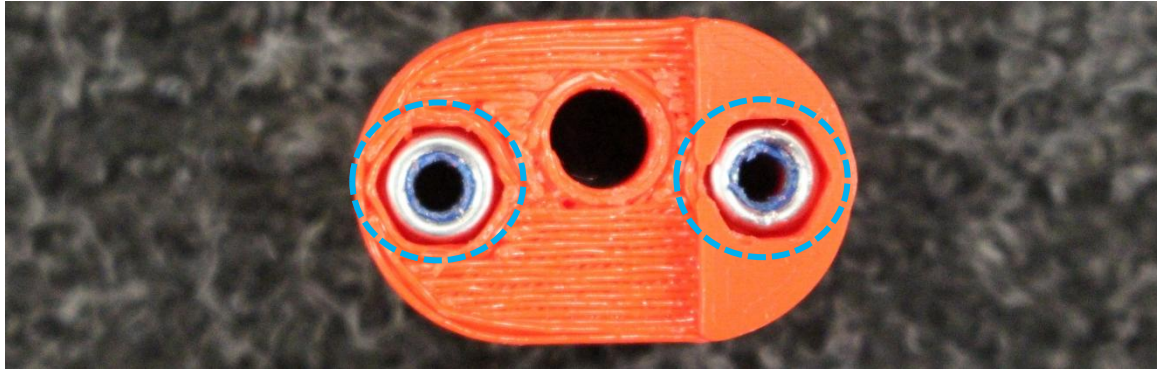
- a. Mark the USC-C cable connector - **T** - (Top). The cable orientation is important.
- b. Cut the cable-tie (arrow)
- c. Disconnect the USB-C cable



- d. Unscrew the D-shape base and remove the D-shape base and the spacer underneath it

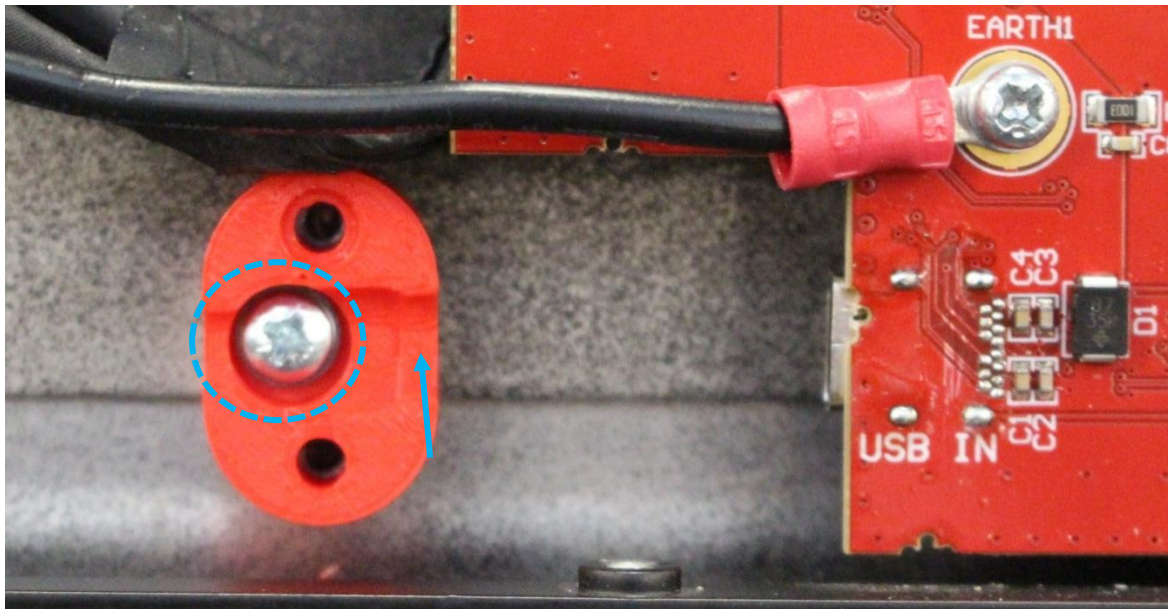


- e. Insert 2x M3 nyloc nuts (0213-1240) (with the nylon insert up) into the USB-C clamp

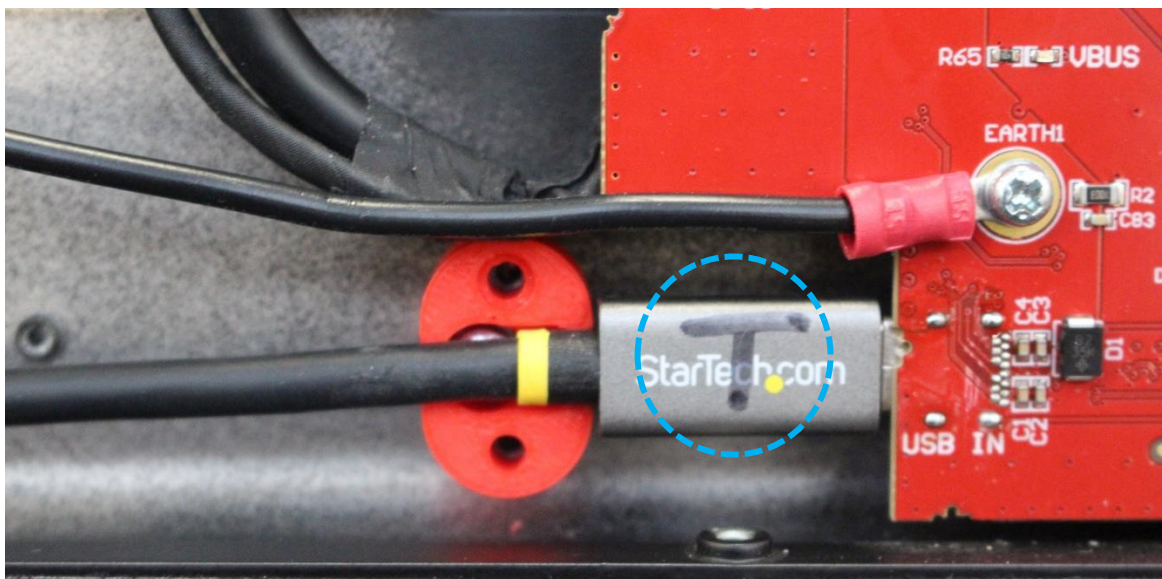


- f. Fix the USB-C Clamp with Sems SCREW M3 X 8 PAN SUPA ZN/CLR (0210-2082-SM)

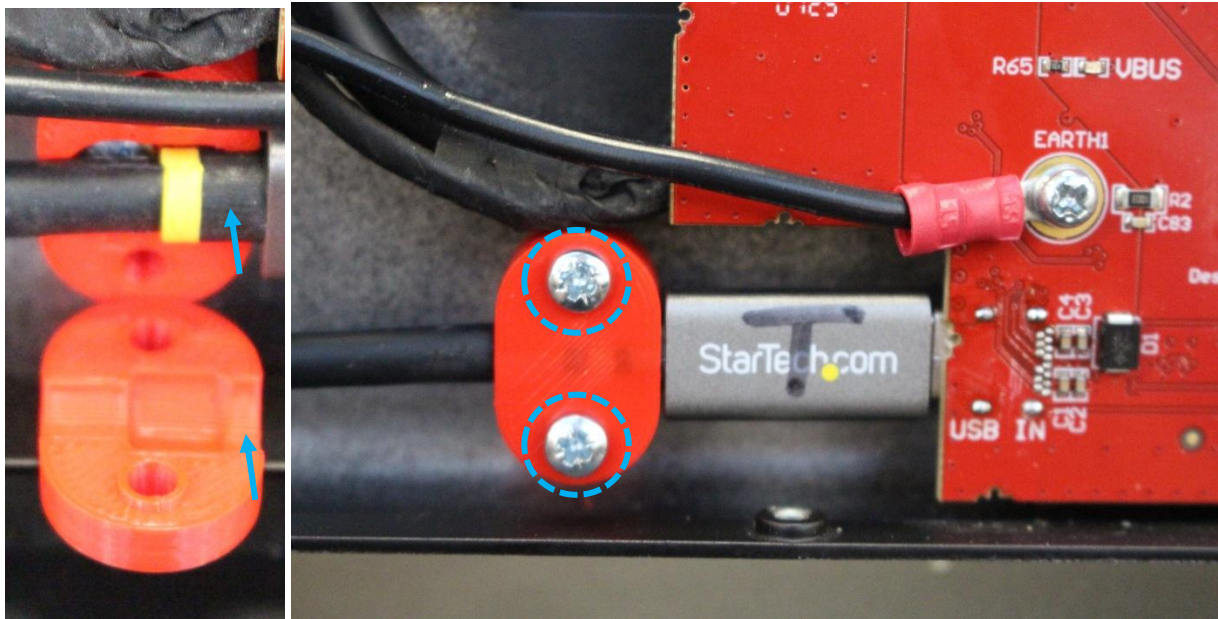
Note the wider opening for the cable connector (arrow)



- g. Connect the USB-C cable back to the **USB IN** port with the **T** mark on the top.

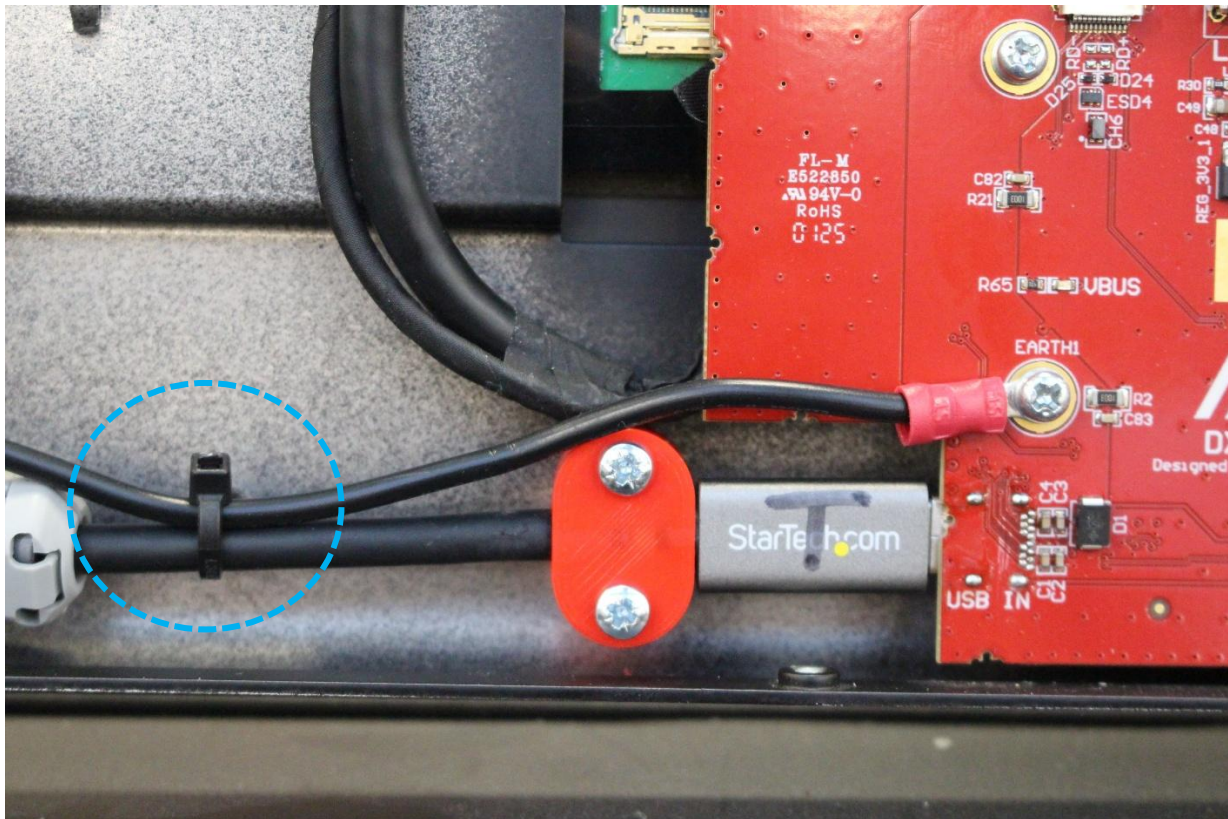


- h. Place the USB-C Clamp cover onto the USB-C clamp then secure it with 2x SCREW M3 X 12 PAN SUPA Z/CLR (0210-2122)



Note the wider opening for the cable connector (arrow)

- i. Secure the Earth loom to the USB-C cable with cable-tie (04-03-0043)



4. LCD Panel assembly

- a. Connect the 3x (2x) from Desk Lamp looms to **DL_1 DL_2** and **DL_3** ports on DX-UDH board (the order is not important)
- b. Fit back the LCD Cover

The LCD panel cover fixing order:

1st – bottom screws - Socket Head Button Screw M3 x 5mm (0210-2089)

2nd – back screws - Socket Head Button Screw M3 x 5mm (0210-2089)

3rd – **side screws** - Socket Head Button Screw **M3 x 8mm (0210-2088)**

4th - front screw - Socket Head Button Screw M3 x 5mm (0210-2089)

1st - 7x (5x) bottom screws - Socket Head Button Screw M3 x 5mm (0210-2089)



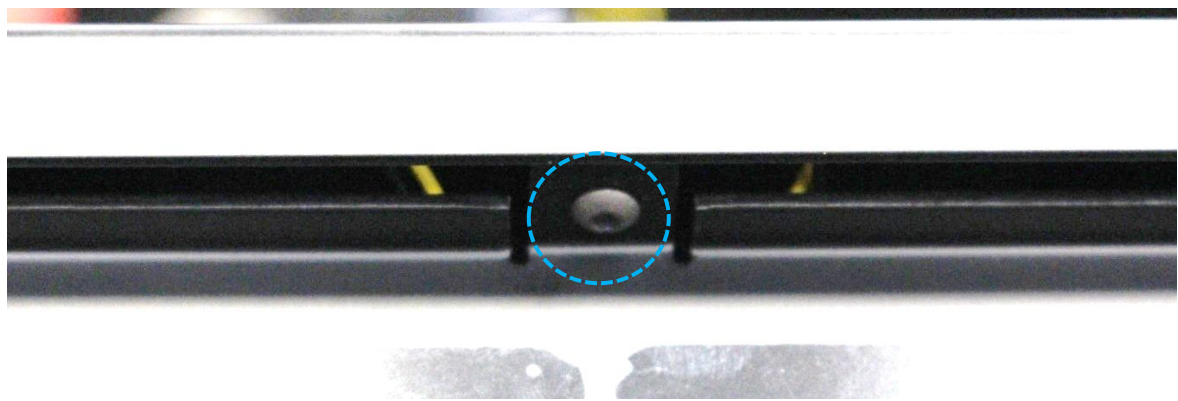
2nd – 4x back screws - Socket Head Button Screw M3 x 5mm (0210-2089)



3rd – 3x screws on each side - Socket Head Button Screw **M3 x 8mm (0210-2088)**



4th – 2x (1x) screws in the front of the console - Socket Head Button Screw M3 x 5mm (0210-2089)



5. Opening the Program Panel

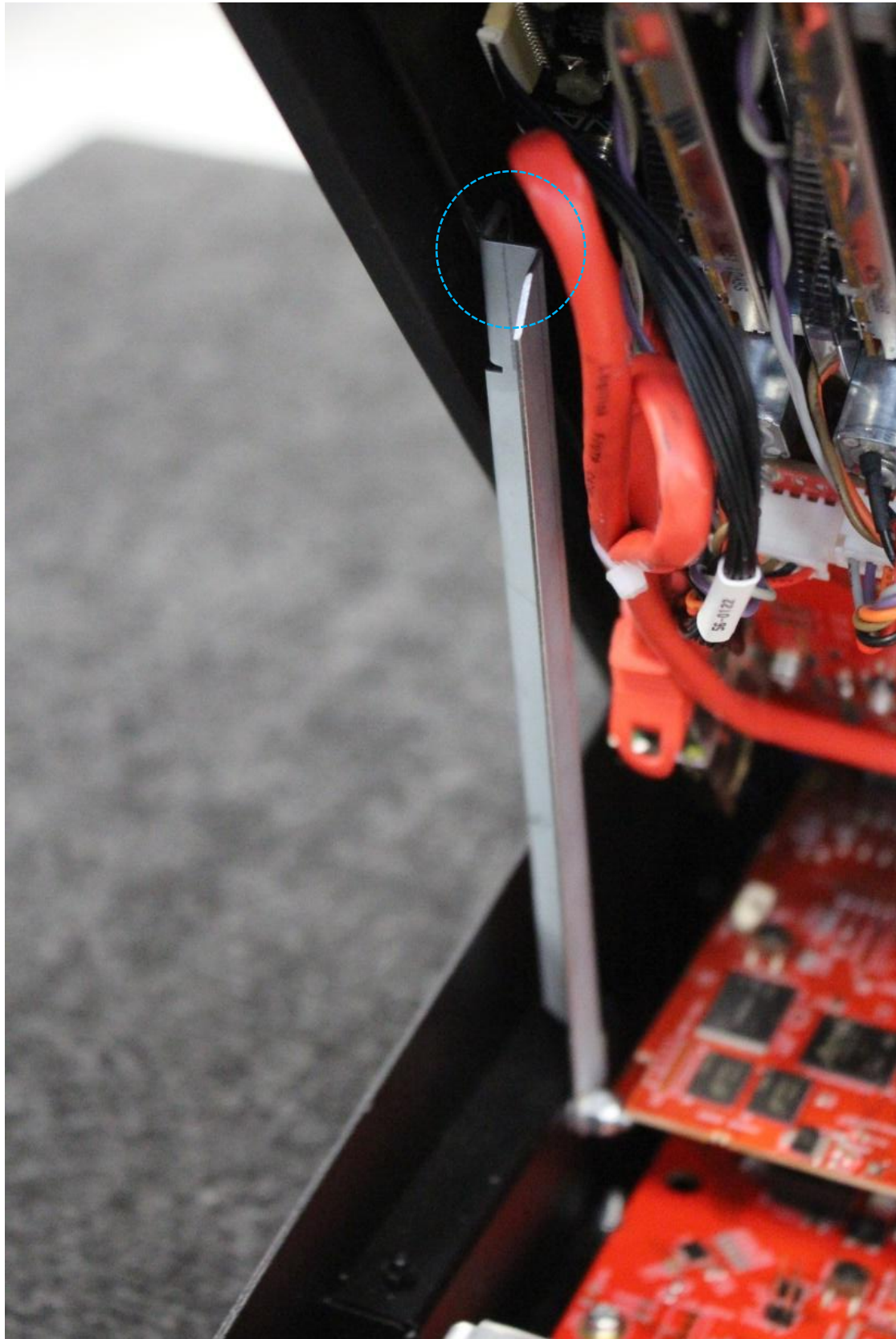
- a. Unscrew the 4x (3x) M4 black screws under the left hand side trim



- b. Open the keyboard drawer then unscrew the M4 CSK screw

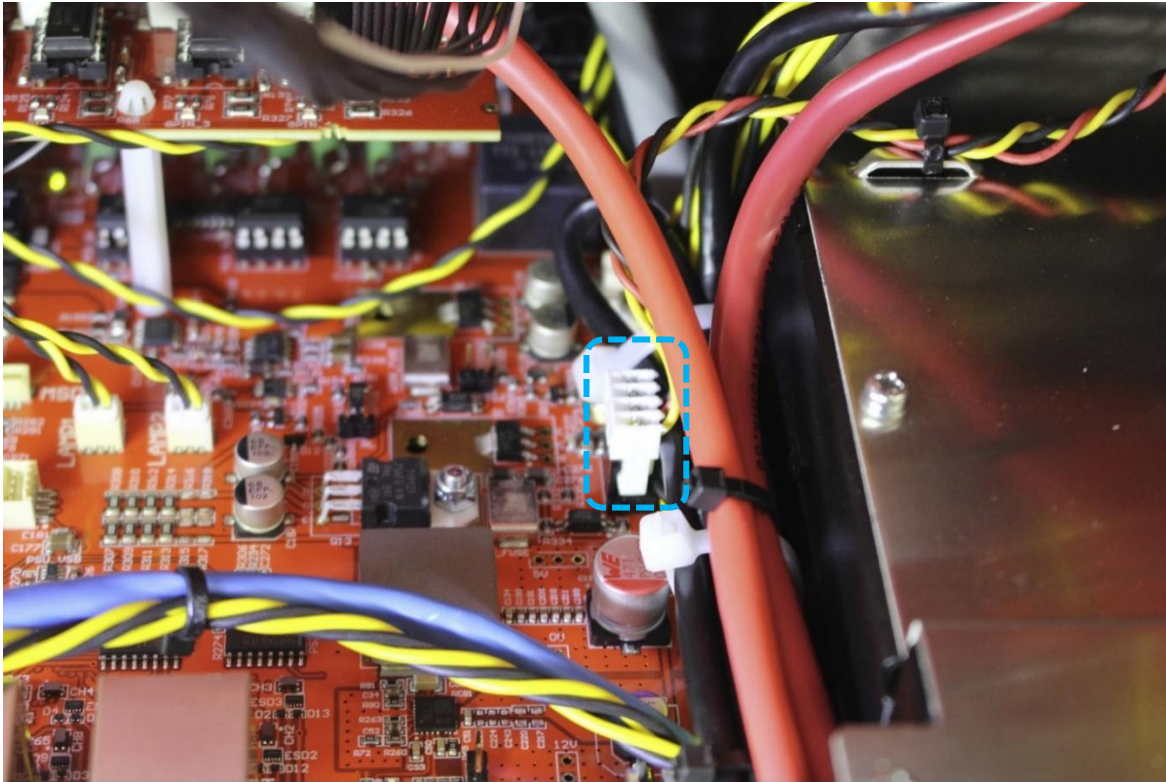


- c. Keep the keyboard drawer opened then secure the Program Panel on the Panel stay

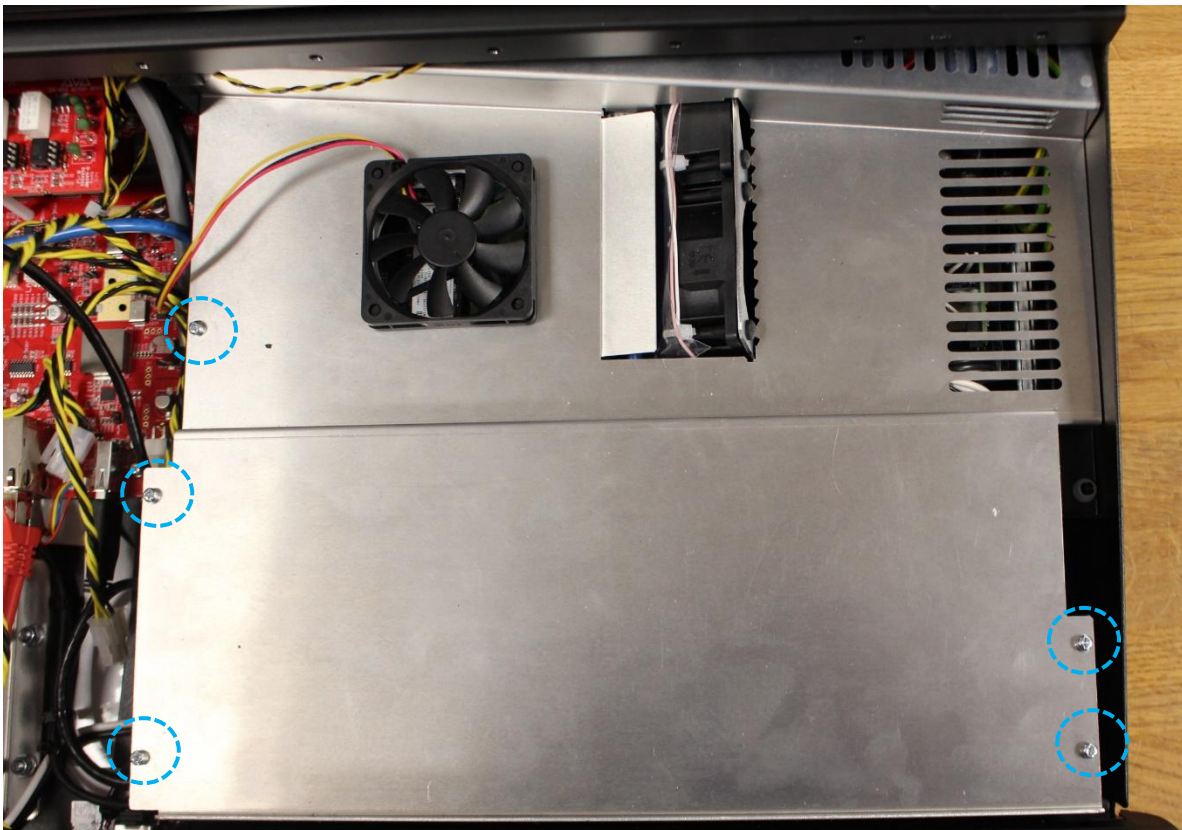


6. Installing the USB-C cable holder at the end of the motherboard

- a. Disconnect the fan loom from the **RAM_FAN** port on DX-SIO board



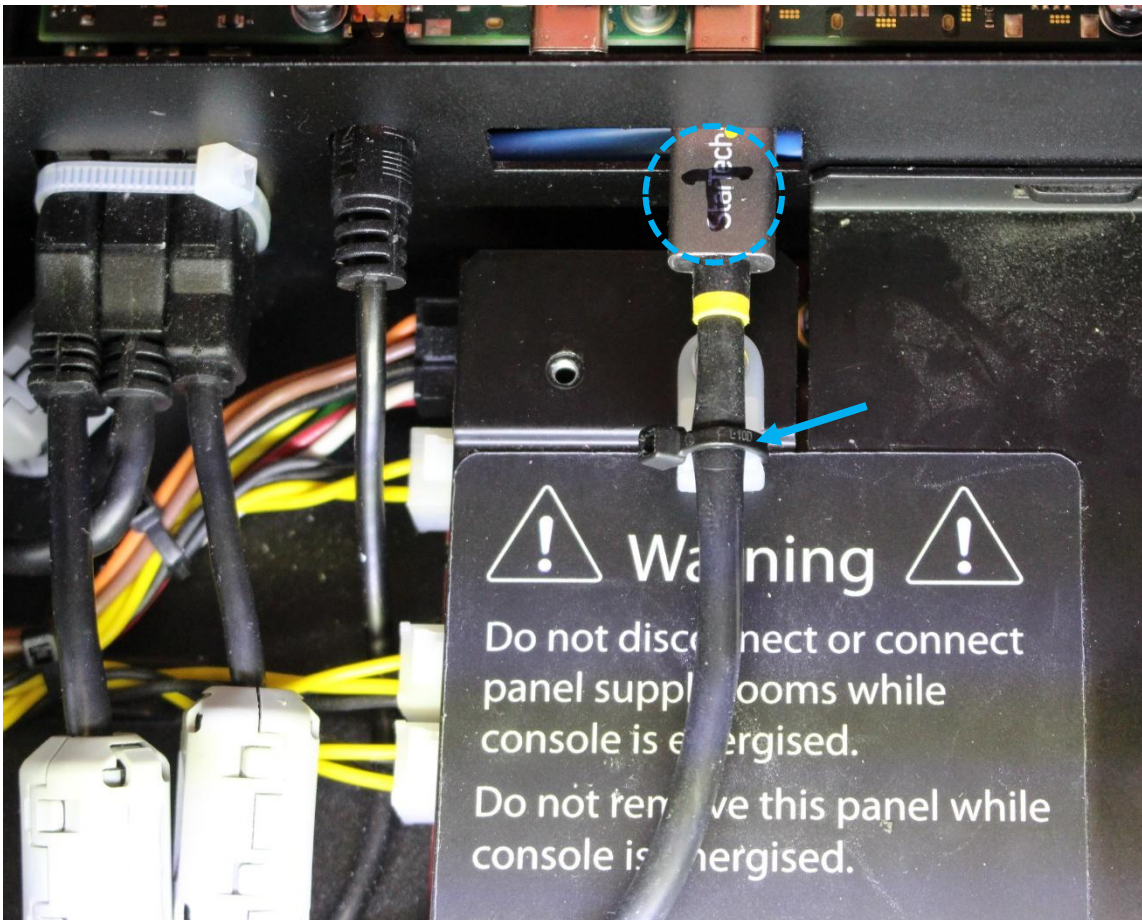
- b. Unscrew 5x SCREW SEMS M3 X 6 PAN SUPA then remove the Internal Cover (retain the screws)
c. Place the Internal Cover on the side of the console with the Earth loom connected (picture on the next side)



Internal Cover on the side on the console



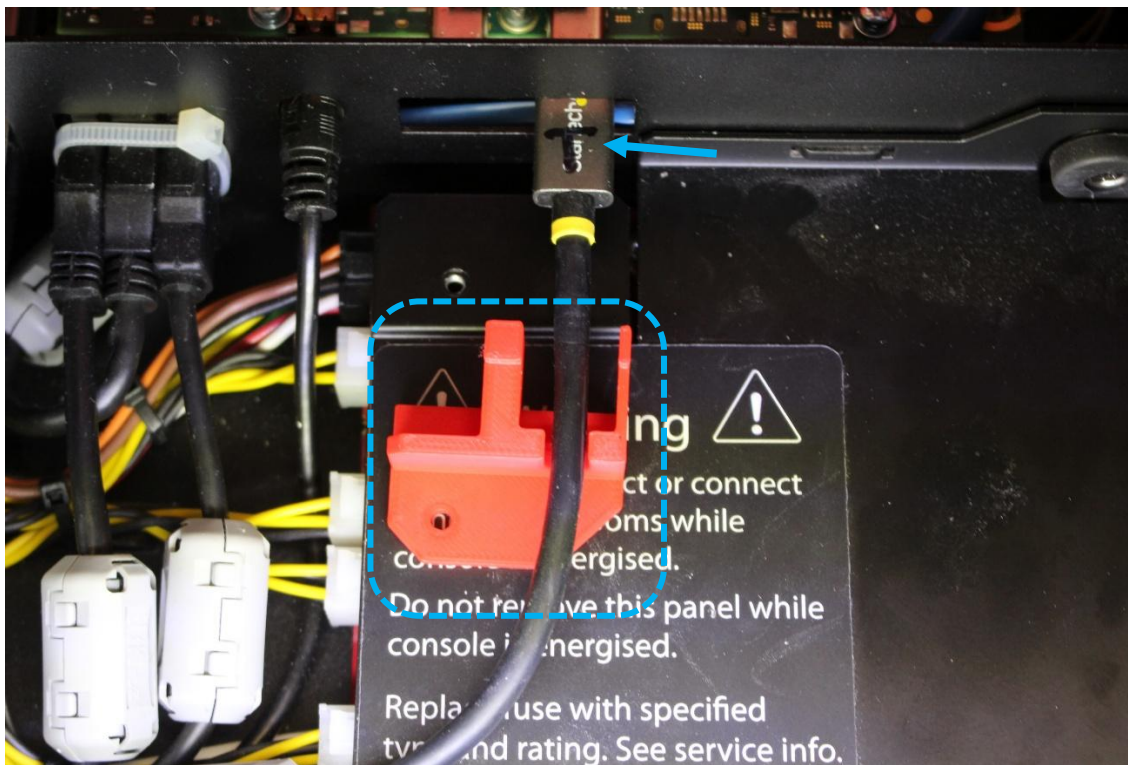
- d. Mark the USC-C cable connector - **T** - (Top). The cable orientation is important.
- e. Cut the cable-tie (arrow)
- f. Disconnect the USB-C cable



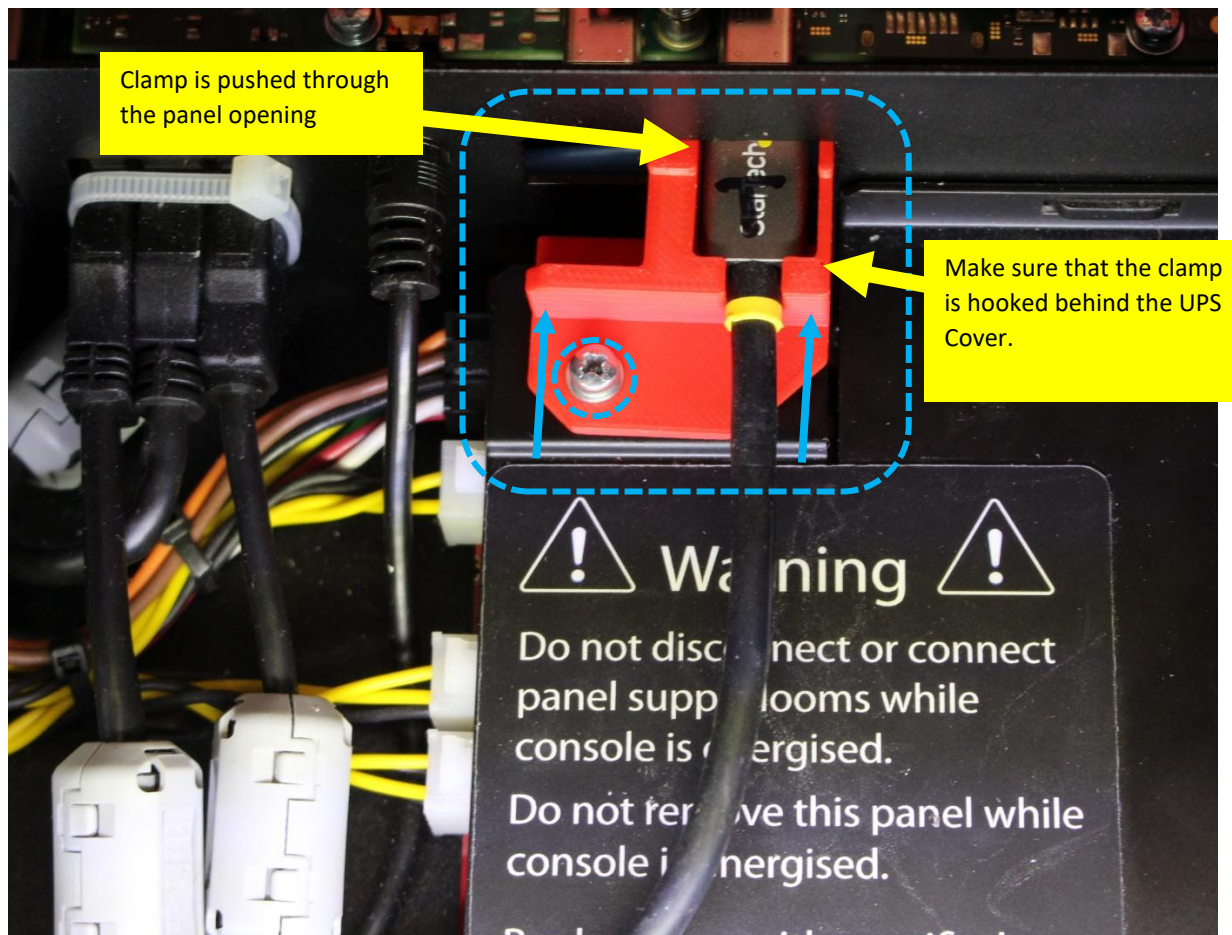
- g. Unscrew the screw and remove it with the D-shape base (square)



- h. Connect the USB-C cable back to the right USB-C port with the T mark on the top.
- i. Place the D7 USB-C Clamp under the USB-C cable as shown



- j. Slide the D7 USB-C Clamp towards the motherboard (arrows)
Make sure the clamp is pushed through the connector opening in the panel.
Make sure the Clamp is hooked behind the UPS cover
- k. Secure the D7 USB-C Clamp with Sems SCREW M3 X 8 PAN ZN/CLR (0210-2082-SM)(circle)

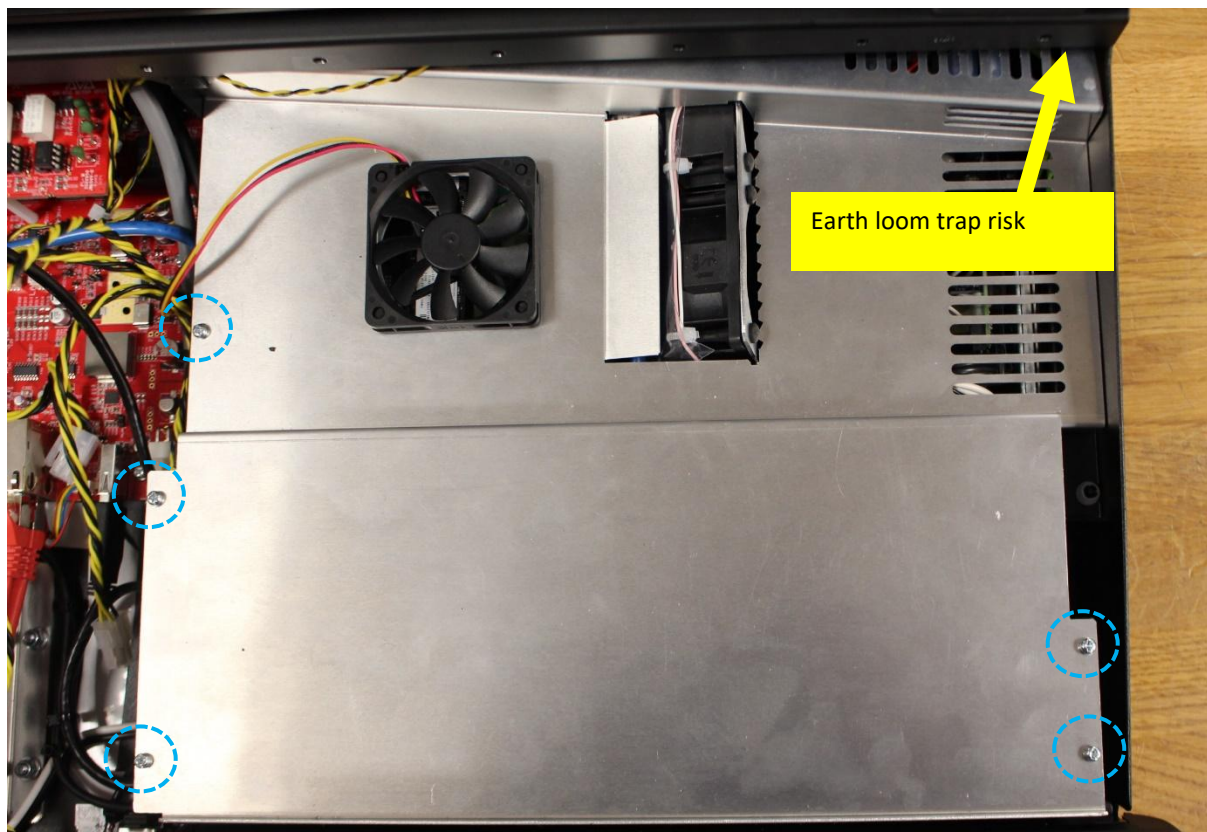


7. Closing the Program Panel

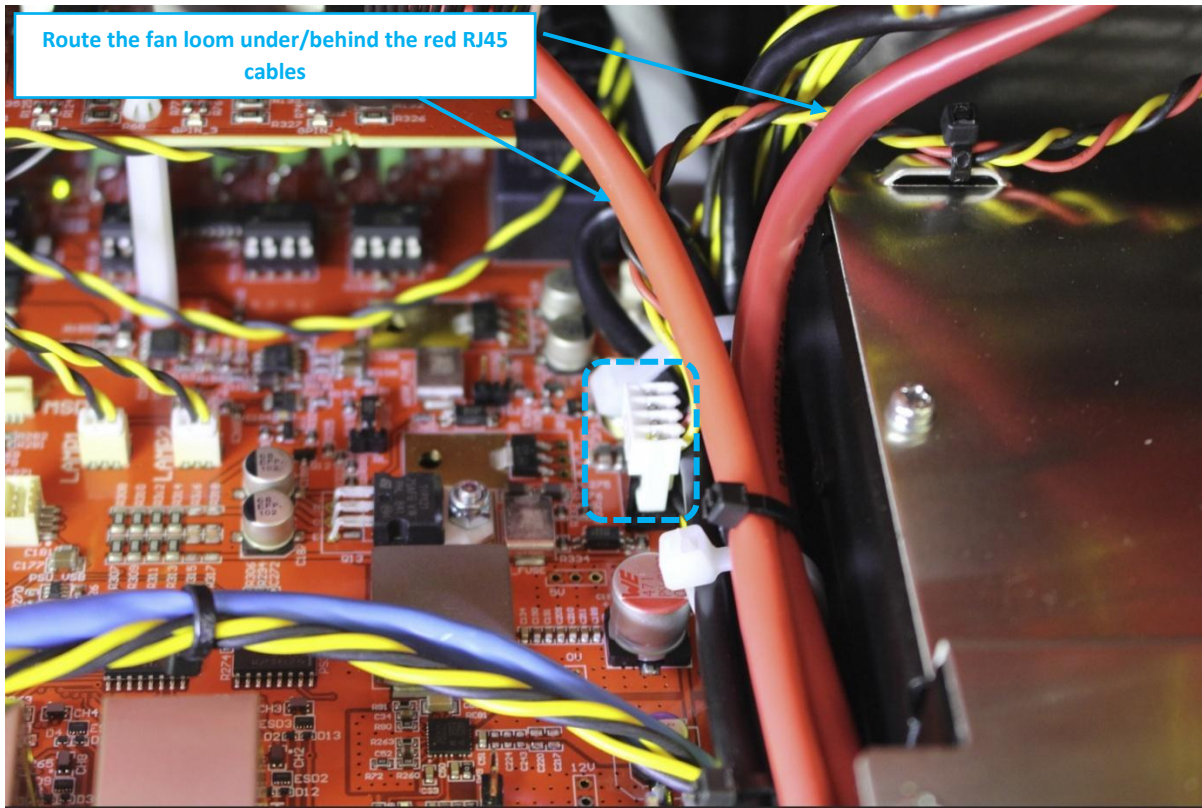
- a. Secure the Internal Cover with retained 5x SCREW SEMS M3 X 6 PAN SUPA

Check that Earth loom is connected to Internal Cover

Check that there're no cables trapped between the Internal Cover and the Shell

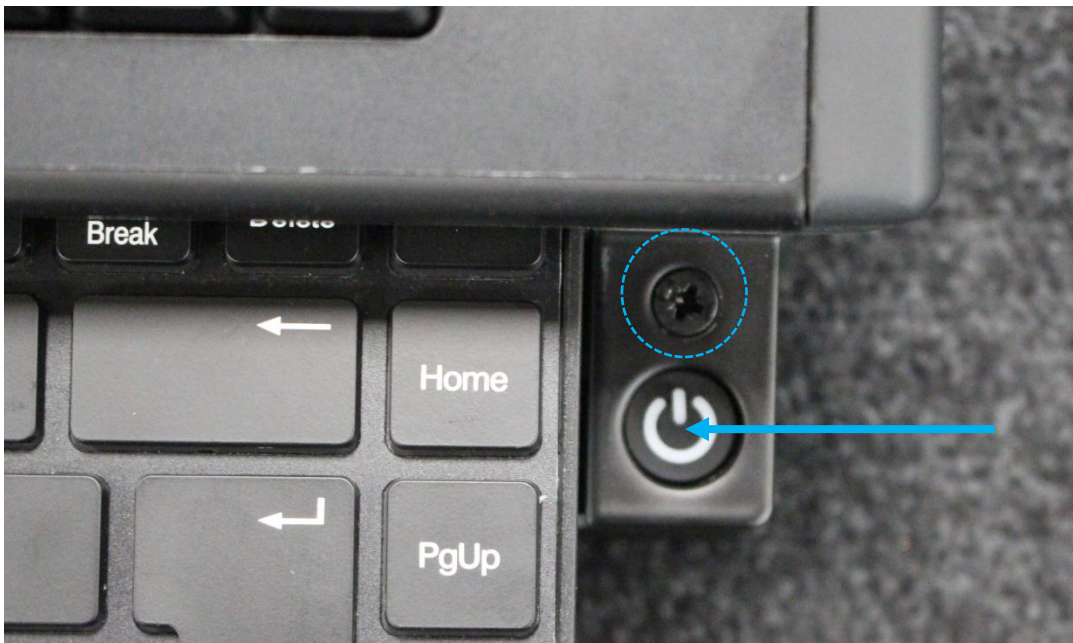


- b. Connect the fan loom to **RAM_FAN** port on SIO board

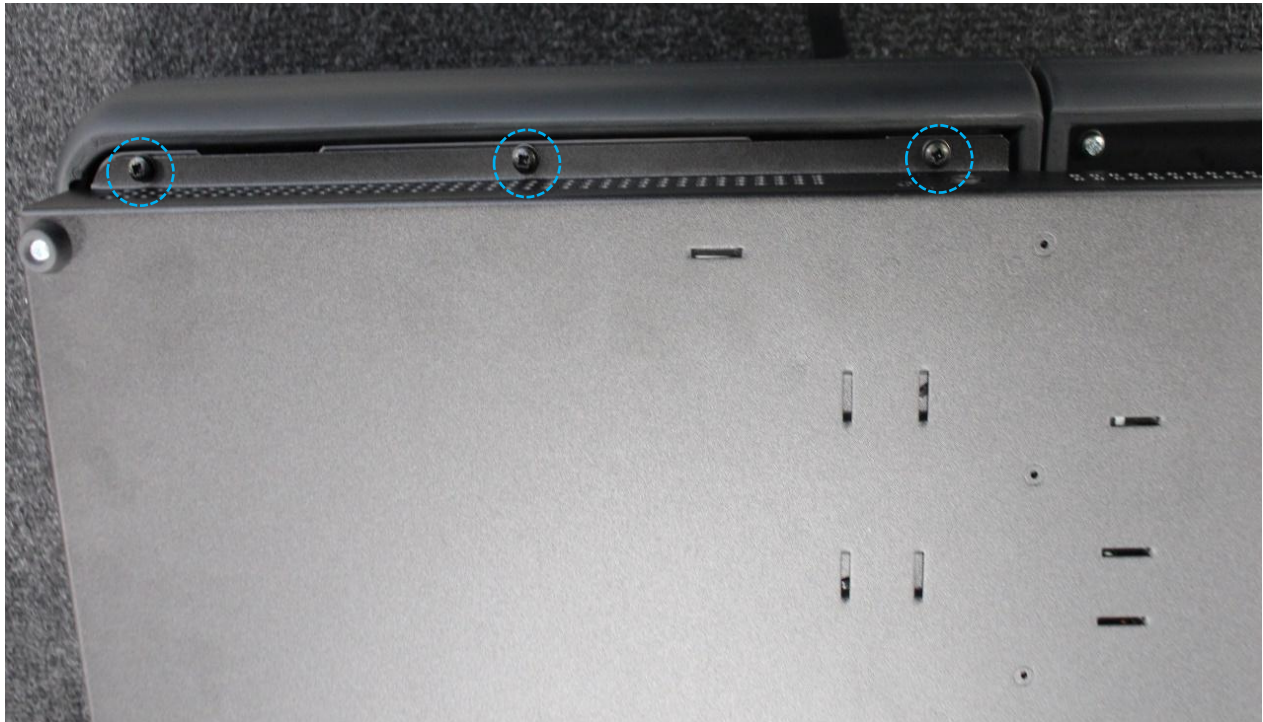


- c. Keep the keyboard drawer opened then release the Program Panel from the Panel stay
- d. Fix the Program Panel with the SCREW M4 X 8 CSK POZI BLACK (0210-4083B)

Ensure the Power Button is moving freely and is not sticking - arrow



- e. Fix the Program Panel with 4x (3x) SCREW SEMS M4X8 PAN SUPA BLACK (0210-4082BSM) under the left hand side trim



Test the console, by switching on and openign USB Expert.

1. Check that the screens fuction
2. Check that the touch function work
3. Check that screne control buttons work (USB Expert key codes)

Please Send an email to support@avolites.com with the flowing data in the subject line (idealy in this exact format)

D72-xxxxx, ECN 0225 fitted

Or

D73-xxxxx, ECN 0225 fitted