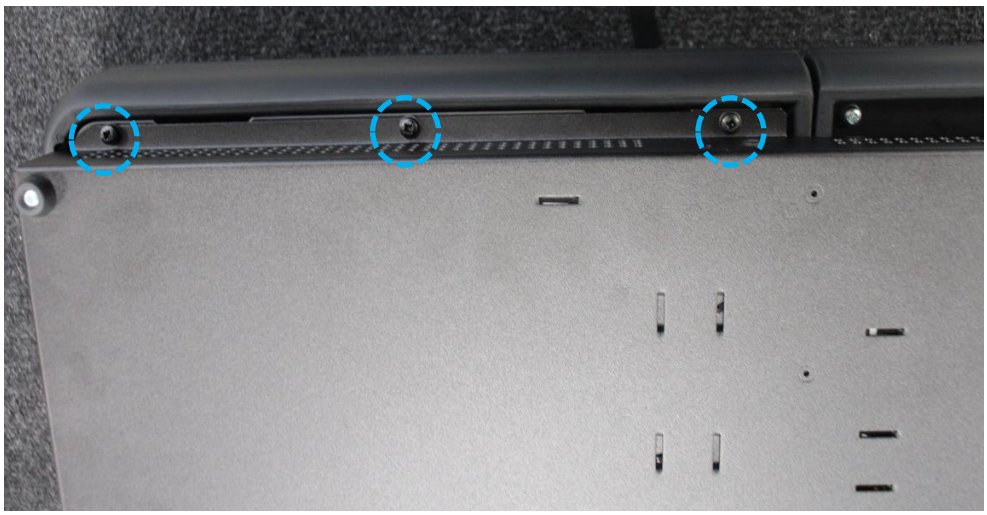
Avolites LTD Engineering Change Notice

ECN title	D7 Macro LCD Touch component changes	
ECN Number	ECN-0224	
Related Products	D72-00001 – D72-00267 D73-00001 – D73-00047	
Date / Author	23/01/2026 GK	
Reasons for ECN	Macro LCD touch not responding	
Parts required	2x SM.RES 47K 1% 0.1W (0603)(06-01-2387) – *1x spare* 10x CABLE TIE TYPE 320 30 (04-03-0039) 5x D7 Intensity Wheel O ring (1358-9991)	
Tools required	Drivers: PZ1, PZ2 Side cutters Tweezers Solder iron	
Estimated time	30 Minutes	

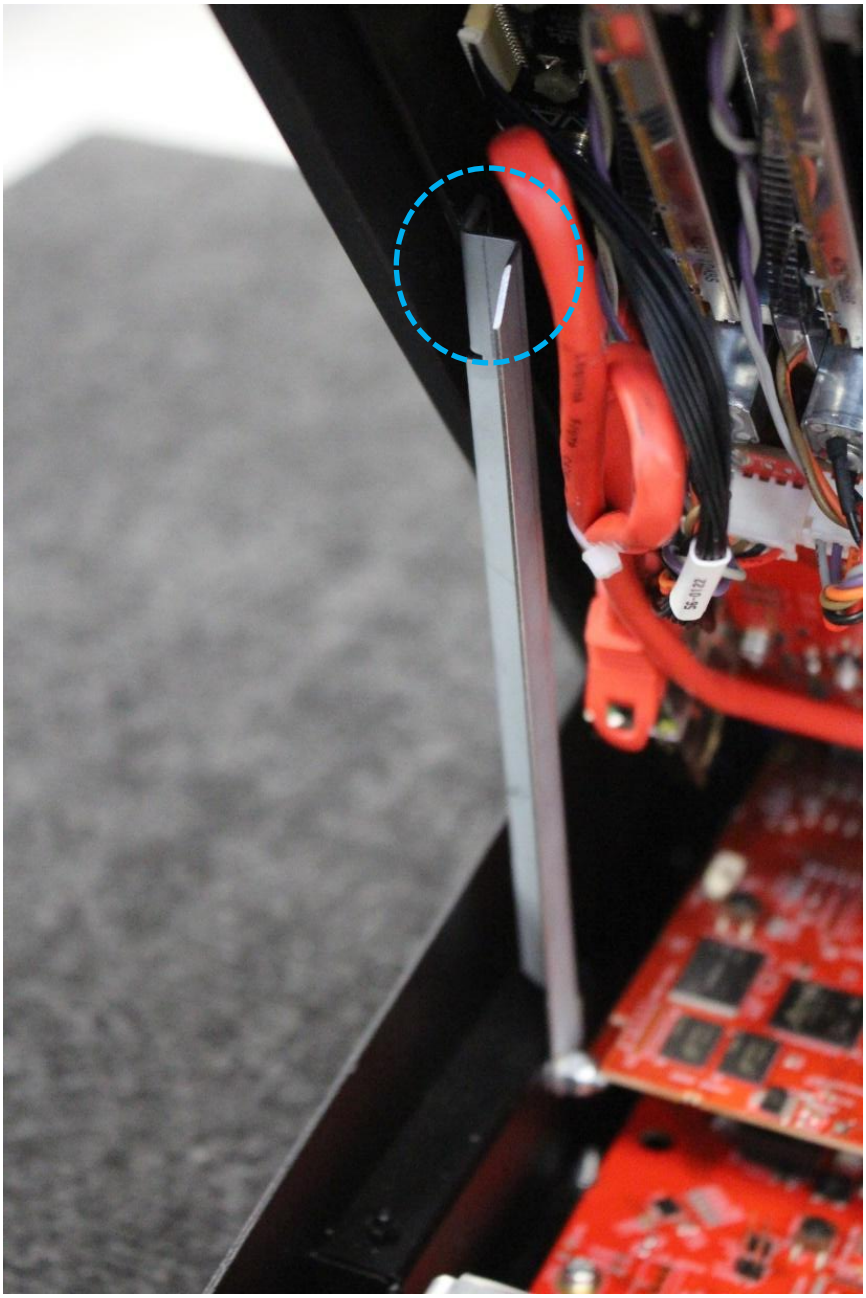
1. Opening the console

a. *Unscrew the 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*



2. Checking the R10 resistor on DX-PPC board

a. Check that the **R10** resistor **is NOT fitted** on the DX-PPC board.

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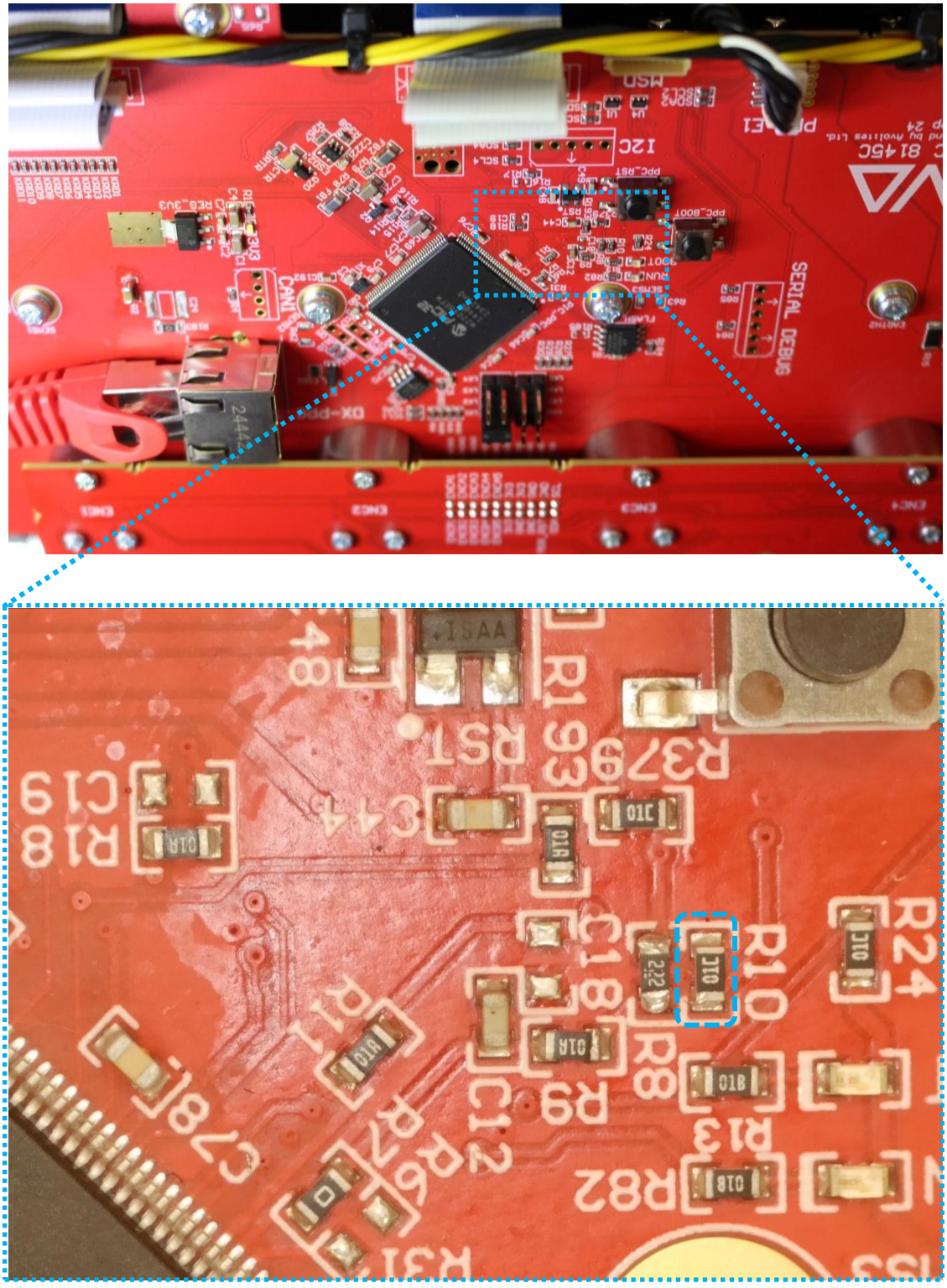
*In case that the **R10** resistor **is NOT fitted** on pcb no further action needed (close the console; jump to subsection 4)*



3. Removing R10 and replacing R8 resistor

Follow the instruction below in case the R10 resistor is soldered on

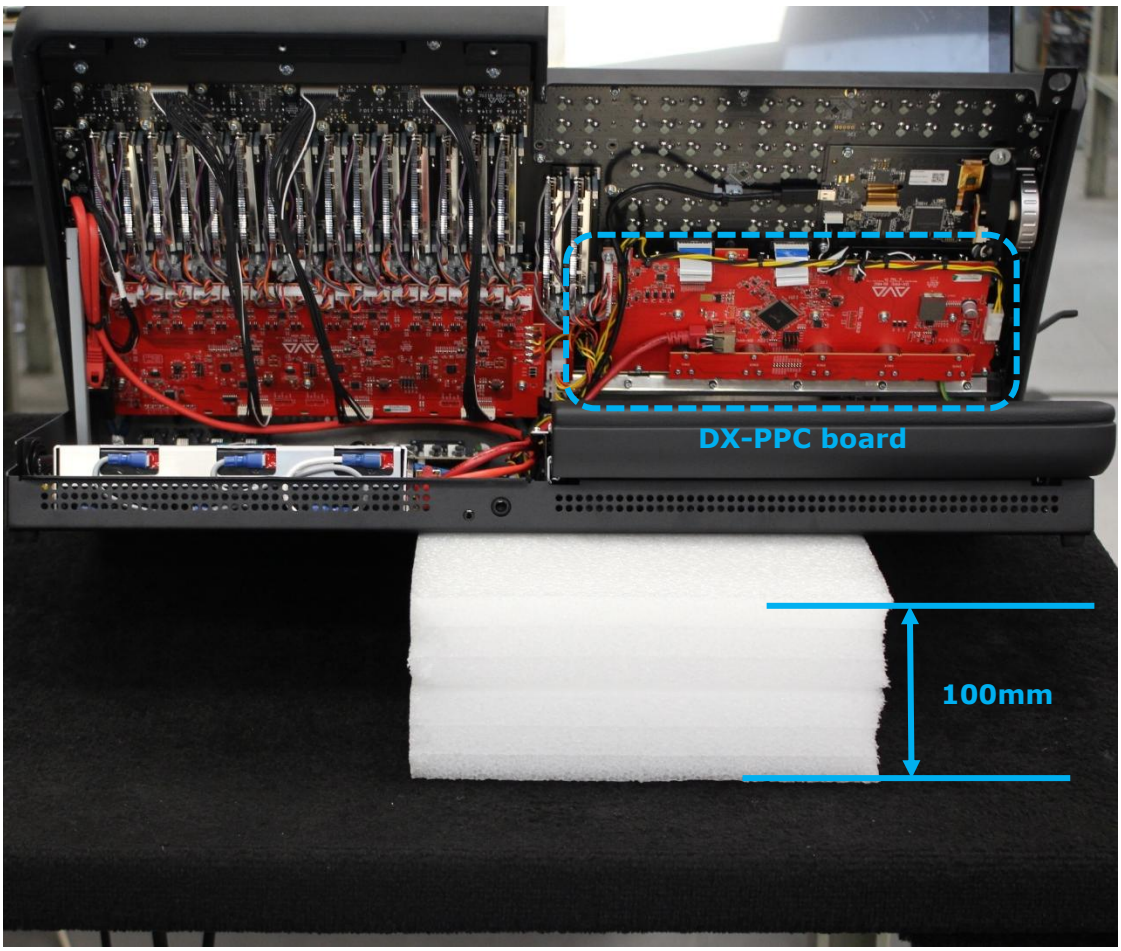
Important notice: There are two ways to solder on the resistor.

1st Recommended: The way without DX-PPC board disassembling (subsection 3.1)
Plus: the DX-PPC board doesn't need to be taken off (less complication)
Minus: Limited access

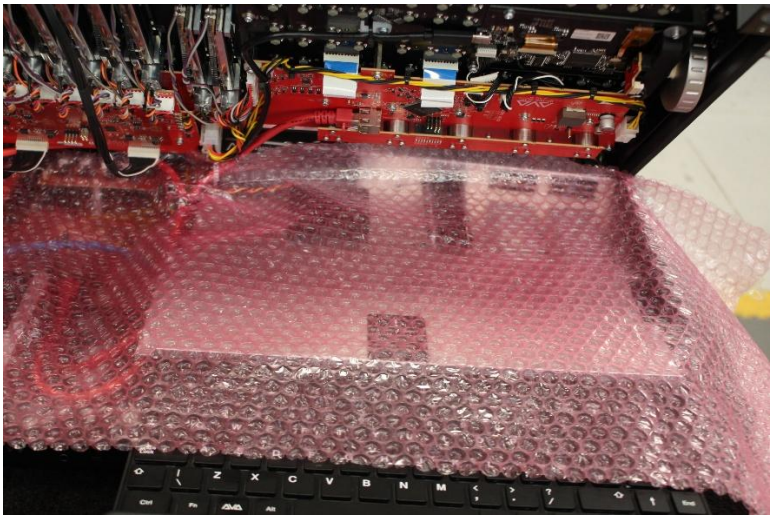
2nd If you think it will be too difficult to solder resistor when the board is in the console remove the DX-PPC board then solder the resistor (subsection 3.2)
Plus: Better access to components
Minus: the DX-PPC board needs to be disconnected, removed from the console then assembled and connected back

3.1 Soldering without DX-PPC board removing

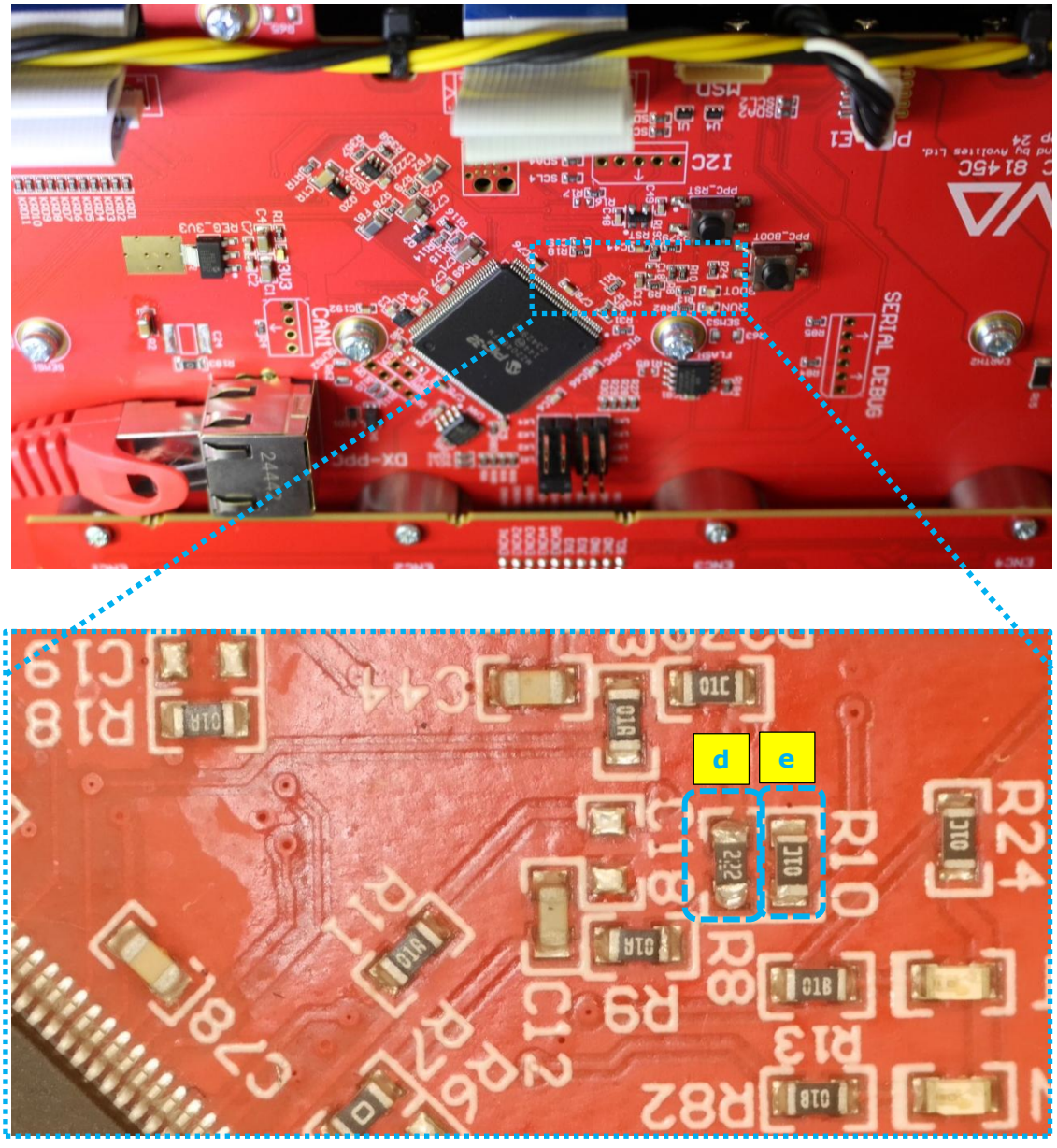
a. Disconnect all cables from the back panel
b. Raise the front of the console by fitting 100mm foam underneath (for getting better access/angle to the board)



c. Lay piece of bubble wrap (or paper) under the DX-PPC board.
It's easy to drop the resistor from tweezers



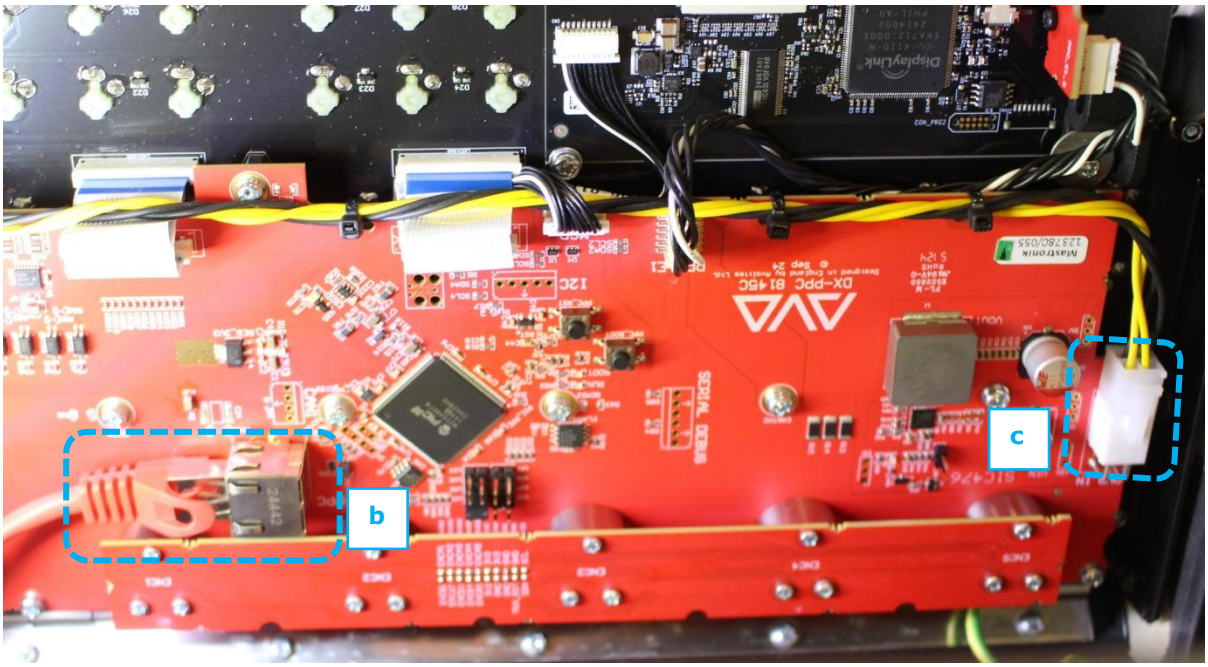
d. Solder the supplied SM.RES 47K 1% 0.1W (0603)(06-01-2387) **R8** - DX-PPC board *(remove existing one if fitted on)*
e. Remove **R10** resistor from DX-PPC board



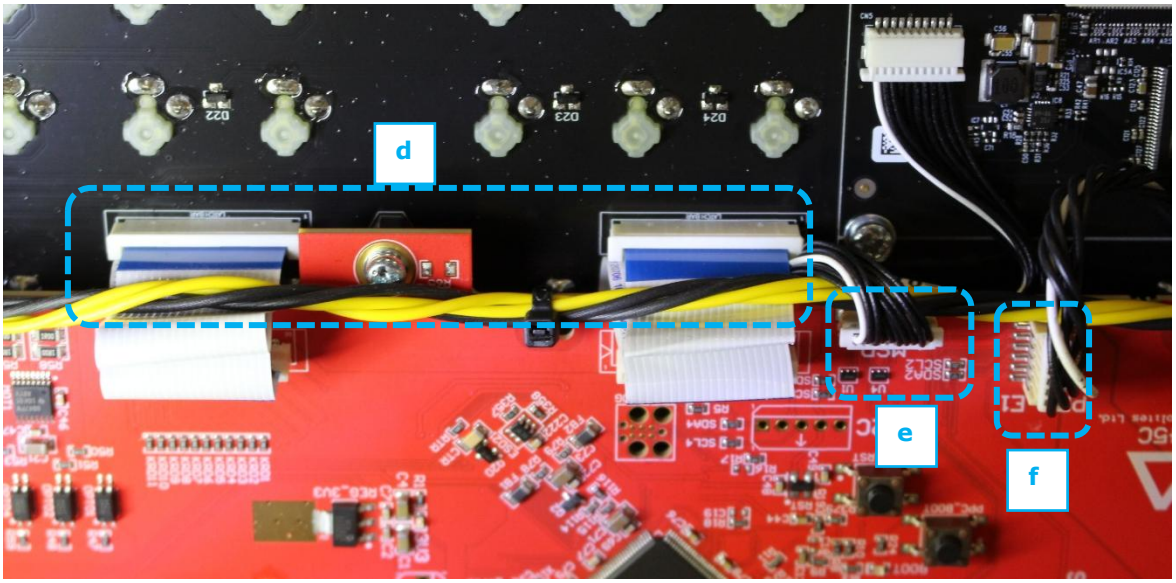
3.2 Soldering with DX-PPC board removing

a. Remove the 5x Encoder wheels

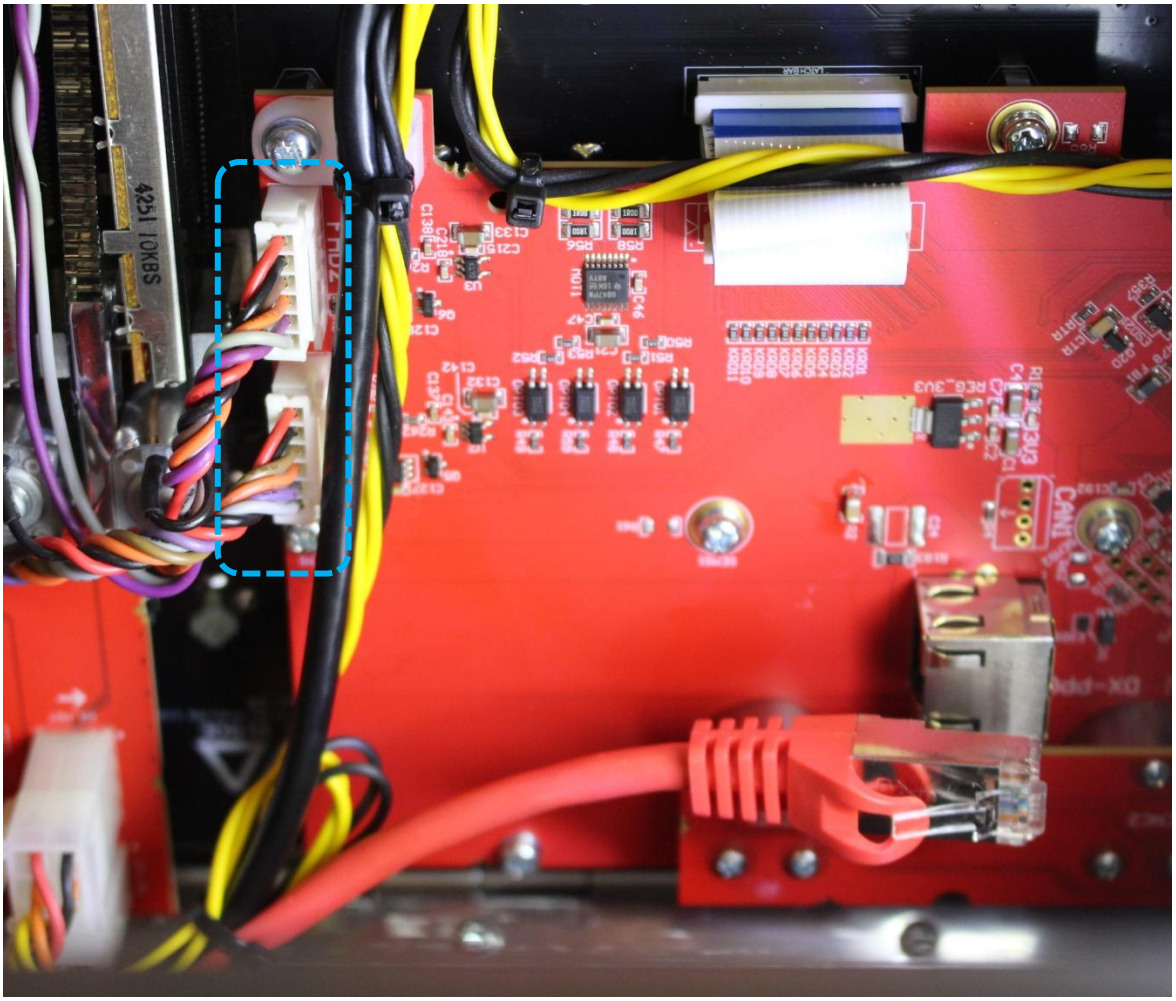
b. Disconnect RJ45 0.5m patch cable Red from the **DX-PPC** port on DX-PPC board
c. Disconnect 4way power loom from **PWR_IN** port on DX-PPC board



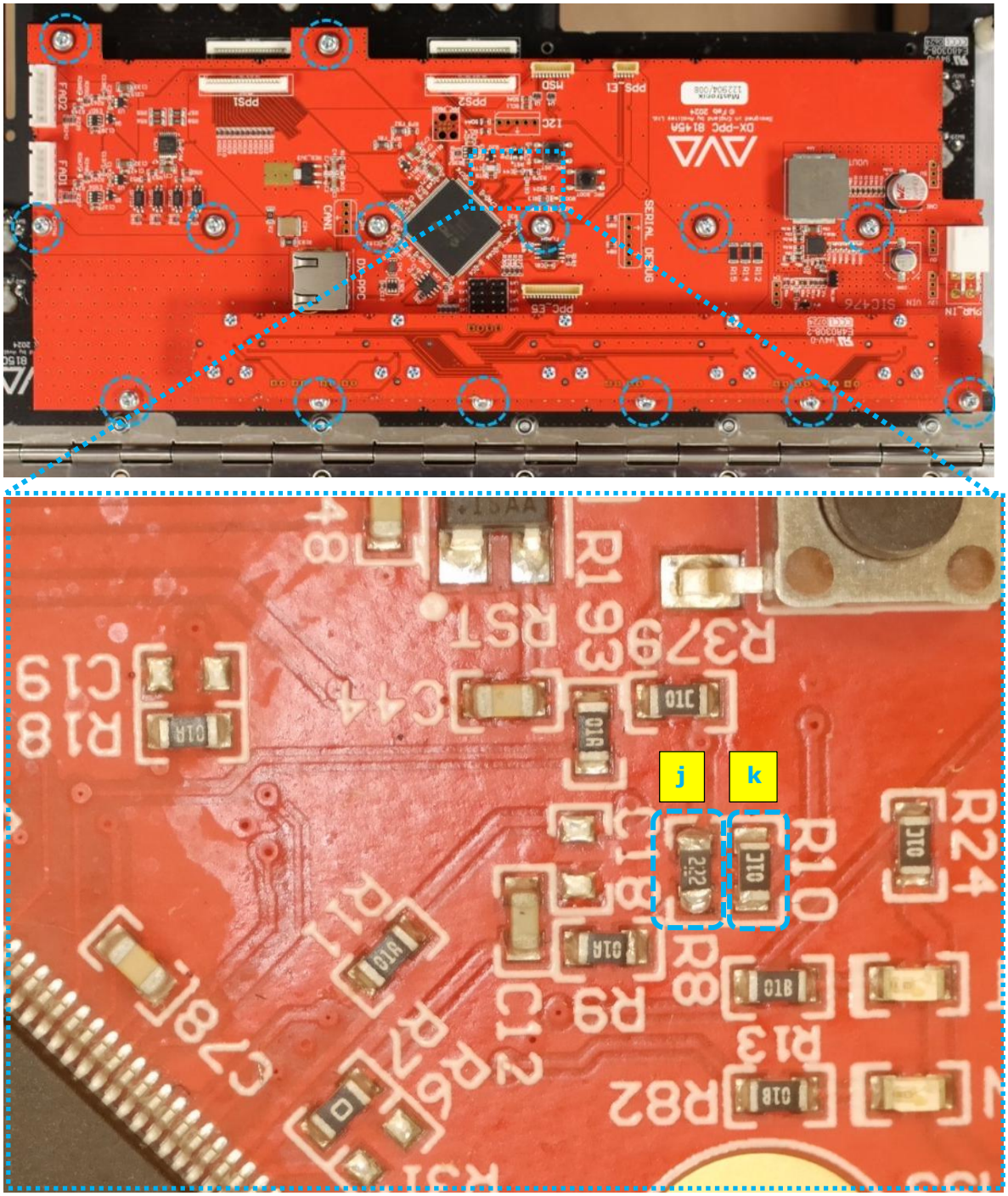
d. Disconnect 2x 20way FFC looms from **PPC1** and **PPC2** connectors on DX-PPS board
e. Disconnect 10way JST loom from **MSD** connector on DX-PPC board
f. Disconnect 6way picoSPOX loom from **PPC_E1** connector on DX-PPC board



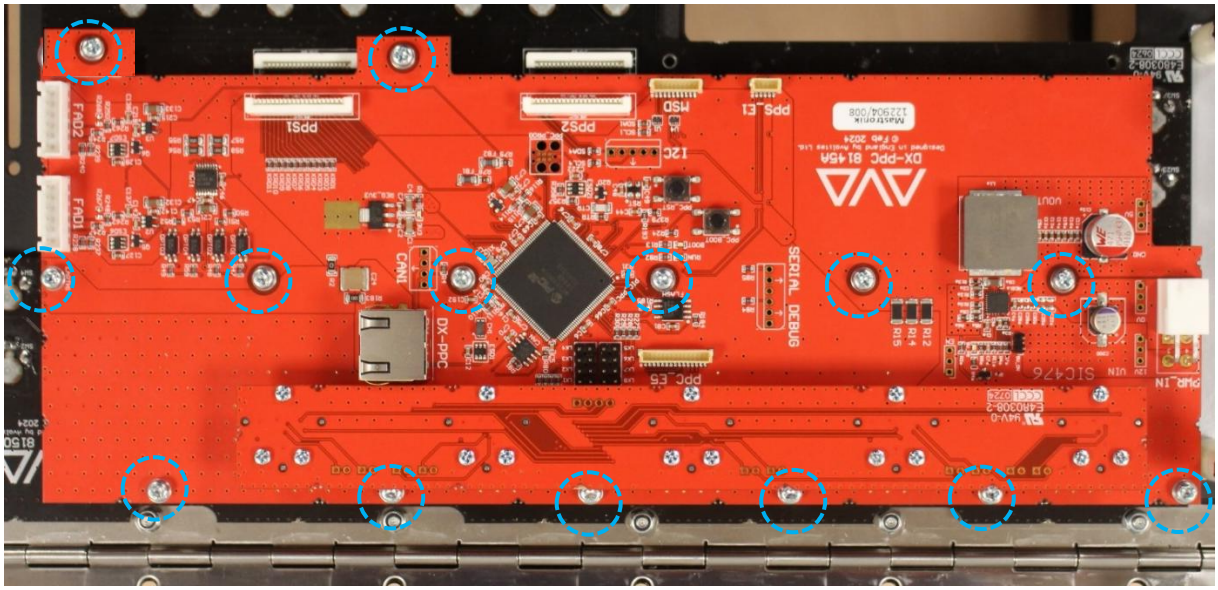
g. Disconnect 2x faders from **FAD1** and **FAD2** connectors on DX-PPC board



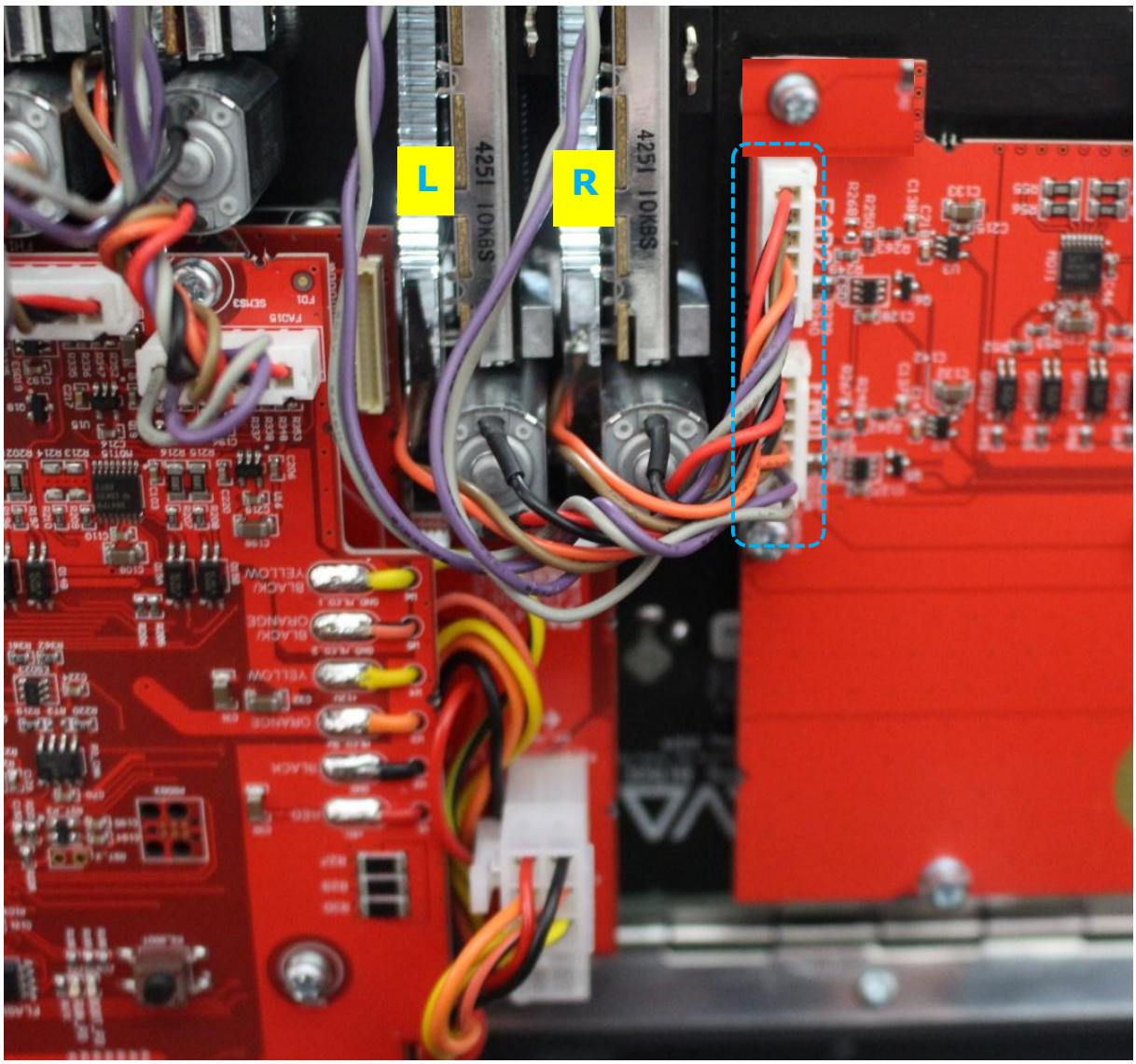
h. Cut all cable-ties attached to the DX-PPC board
i. Unscrew all 14x screws holding the DX-PPC board then remove the board
j. Solder the supplied SM.RES 47K 1% 0.1W (0603)(06-01-2387)
R8 – DX-PPC board *(remove existing one if fitted on)*
k. Remove **R10** resistor from DX-PPC board



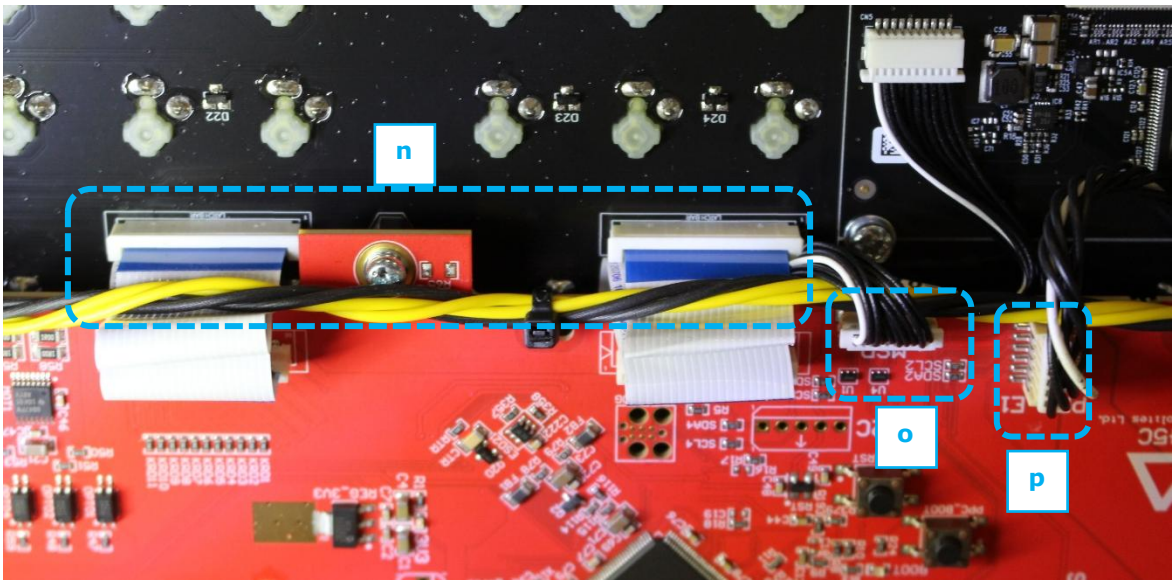
l. Fix the DX-PPC board with 14x SCREW SEMS M3 X 6 PAN SUPA (0210-2065SM)



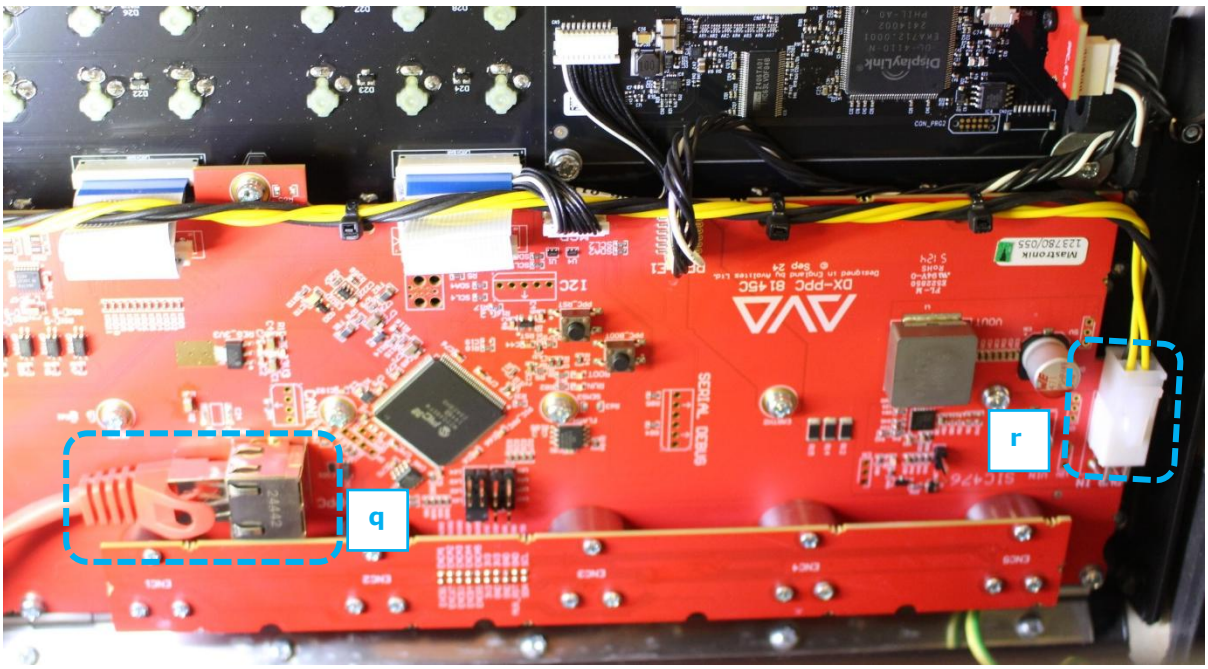
m. Connect the left fader **L** to **FAD1**, the right fader **R** to **FAD2** port on DX-PPC board



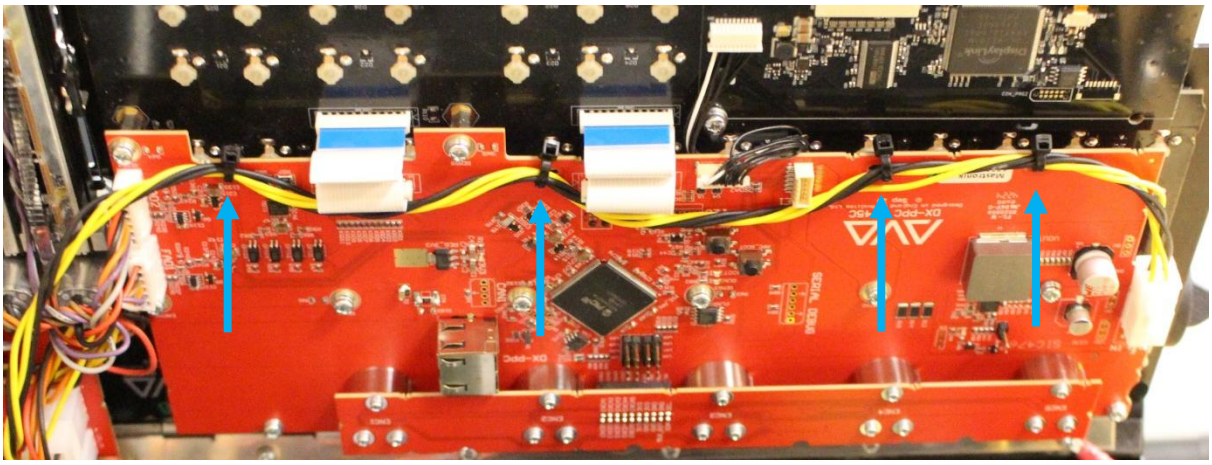
n. Connect the 2x 20way FFC looms to **PPC1** and **PPC2** connectors on DX-PPS board
o. Connect 10way JST loom to **MSD** connector on DX-PPC board
p. Connect 6way picoSPOX loom to **PPC_E1** connector on DX-PPC board



q. Connect RJ45 0.5m patch cable Red to the **DX-PPC** port on DX-PPC board
r. Connect 4way power loom to **PWR_IN** port on DX-PPC board



s. Route the PPC supply loom as shown then secure on the DX-PPC board with 4x cable-ties (arrows)

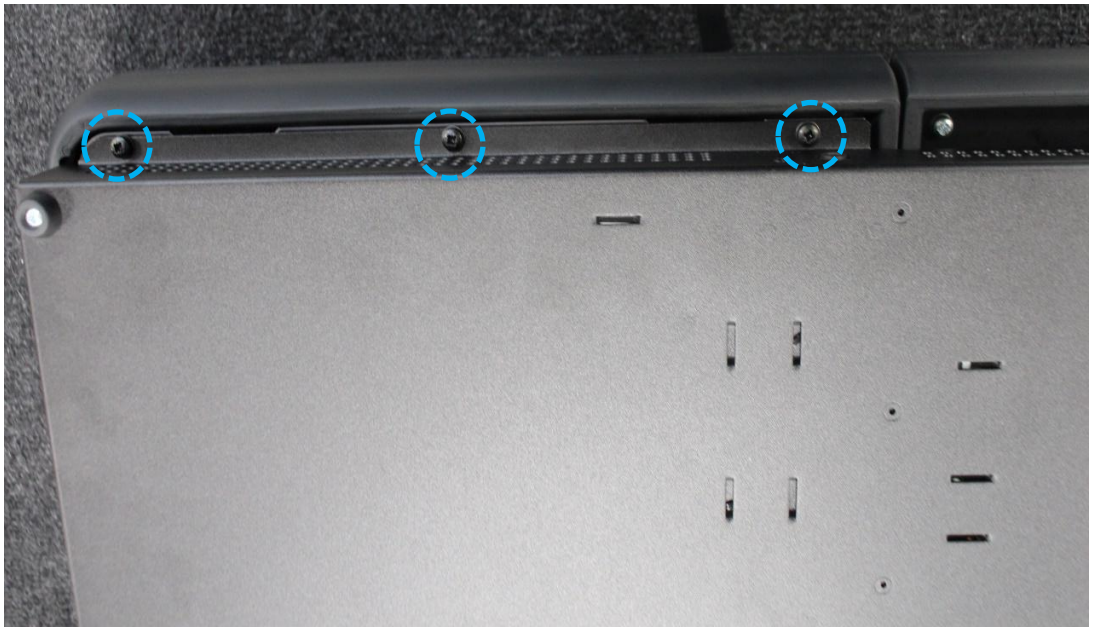


4. Closing the console

a. Keep the keyboard drawer opened then release the Program Panel from the Panel stay
b. Fix the Program Panel with the M4 CSK screw

Ensure the Power Button is moving freely and is not stuck when pressed arrow

c. *Fix the Program Panel with M4 black screws under the left hand side trim*



d. *If the Encoder Wheels were removed insert back the 5x Encoder wheels*

NOTE that there's an O-ring inside encoder wheel

Sometimes the O-ring can be damaged during inserting the wheel onto the shaft
That causes the Wheel is not sitting firmly on the shaft

In that case replace the O-ring in the Wheel with the supplied one:

D7Intensity Wheel O ring (1358-9991)