FITTING NOTE

SUBJECT	Avantis RackUltra FX Module Fitting Note ISS1
DATE	March 2026
DOCUMENT	
MODEL(S)	Avantis, Avantis Solo

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Before Starting

- ⓘ RackUltra FX cards are **not** interchangeable. For example, a RackUltra FX card for Avantis Solo will not work in Avantis Dual Screen.
- ⓘ Fitting of this module must be carried out by technically qualified personnel only. Any damage caused by mishandling or incorrect installation will not be covered under warranty.

This fitting note is intended to aid in the fitting of a RackUltra FX module to an Avantis console.

Ensure a suitably sized worksurface is available. Ensure this is clear of dirt, debris and obstructions which may damage the equipment surfaces. Ensure adequate lighting. Use the correct tools for the job and ensure that they are in good working order. Ensure all workshop safety requirements are adhered to.

Tools Required

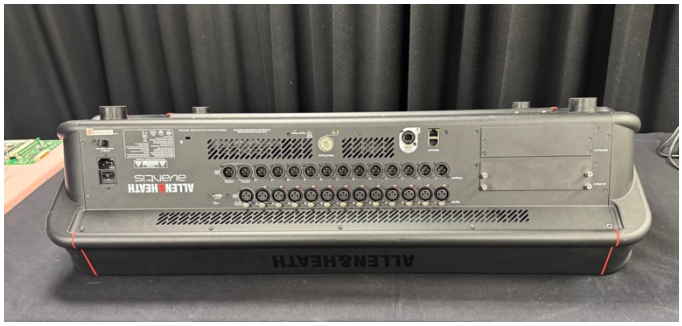
T8	Screwdriver
T10	Screwdriver
T30	Screwdriver
6mm	Nut Setter / Hex Socket
Side Cutters	
Cable Ties	
Grounding Strap	

M-AVS-ULTRAFX-A	RackUltra FX module (Avantis Solo)
Or	
M-AV-ULTRAFX-A	RackUltra FX module (Avantis Dual Screen)

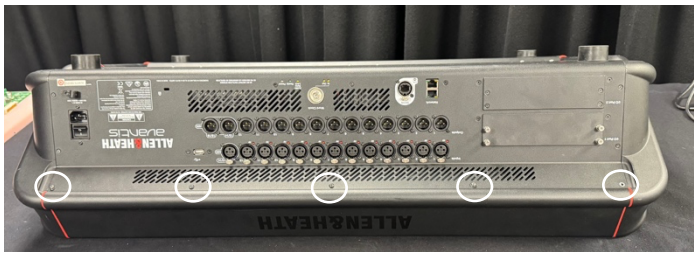
Avantis (Dual Screen)

1) **Begin with the console positioned as shown.**

   ⓘ **Use a protective mat under the console.**



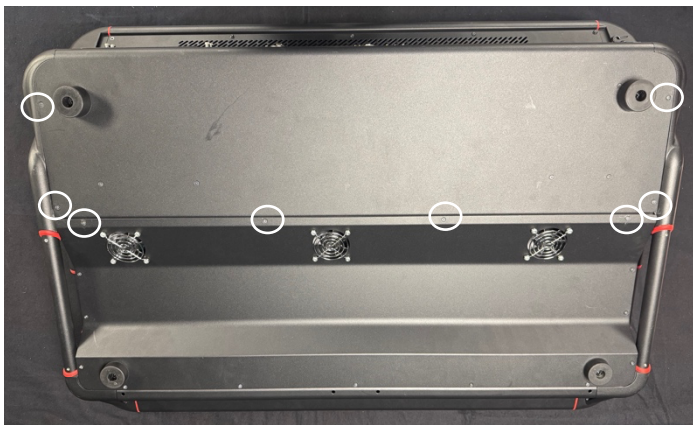
2) **Remove AB2909 screws (x5) T10 shown.**



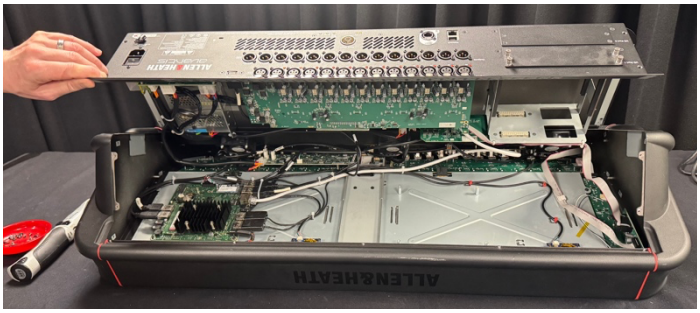
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3) **Remove** AB8592 screws (x12) T8 shown.



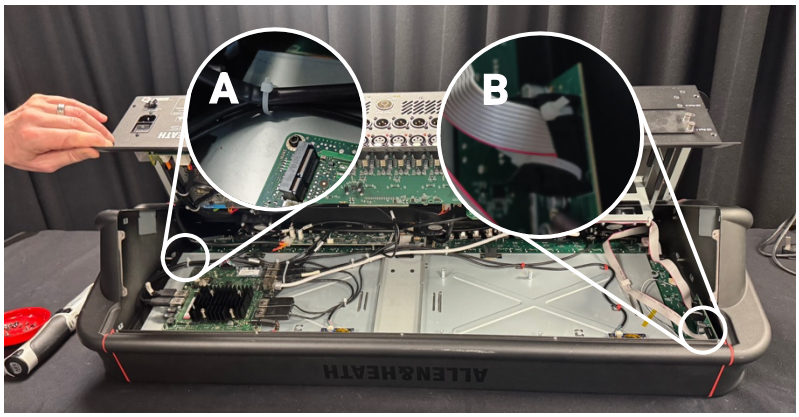


4) **Partially** remove rear panel.

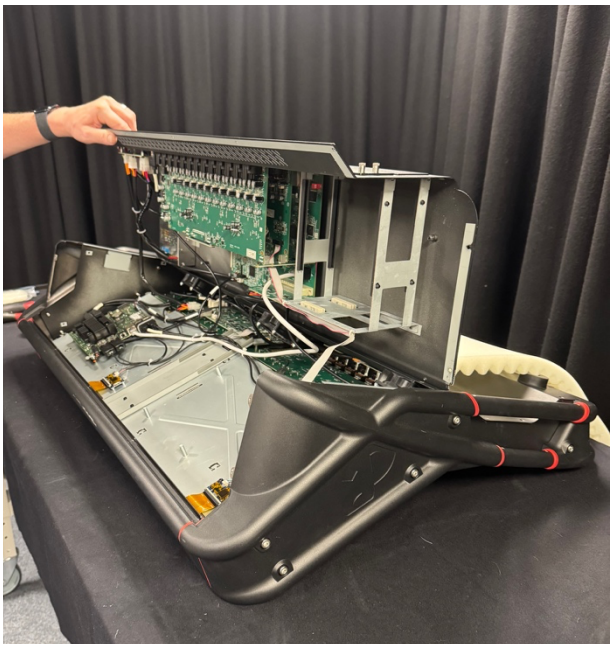


5) **Cut** the cable ties shown.

6) **Disconnect** Headphone Audio Ribbon Cable shown at “B”.

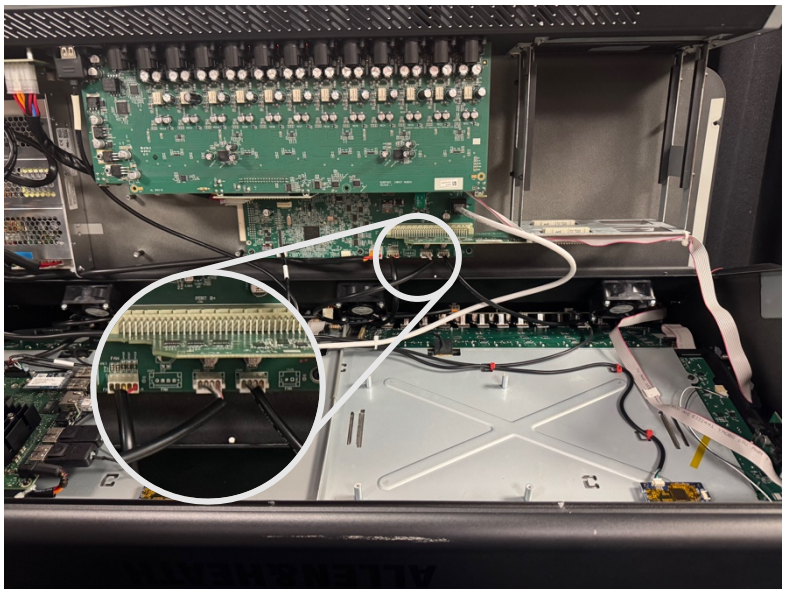


7) **Position** Rear Panel to 90° as shown.



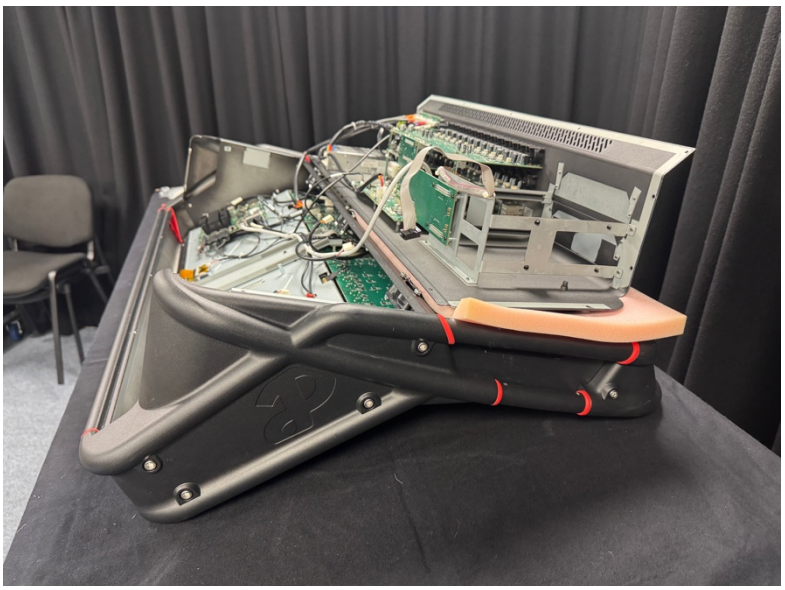
8) **Disconnect** 3x connectors shown here.

ⓘ Note the order and location of these connectors.

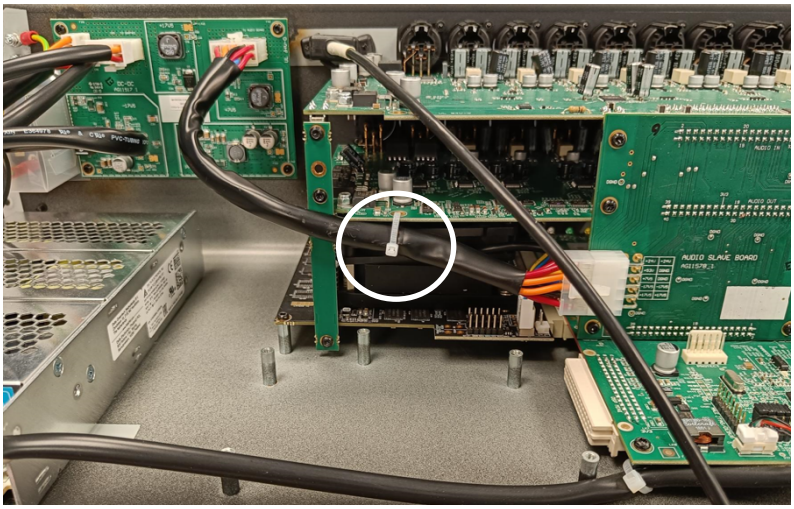


9) **Position** Rear Panel as shown.

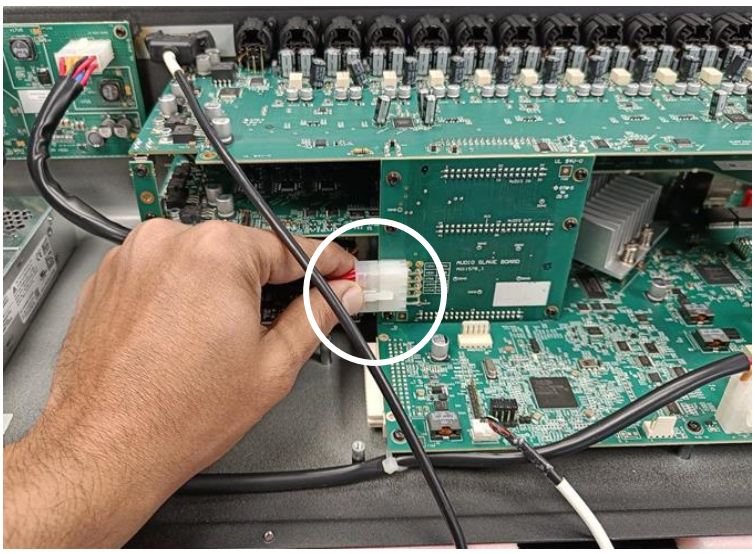
ⓘ Use a protective mat on the base of the console.

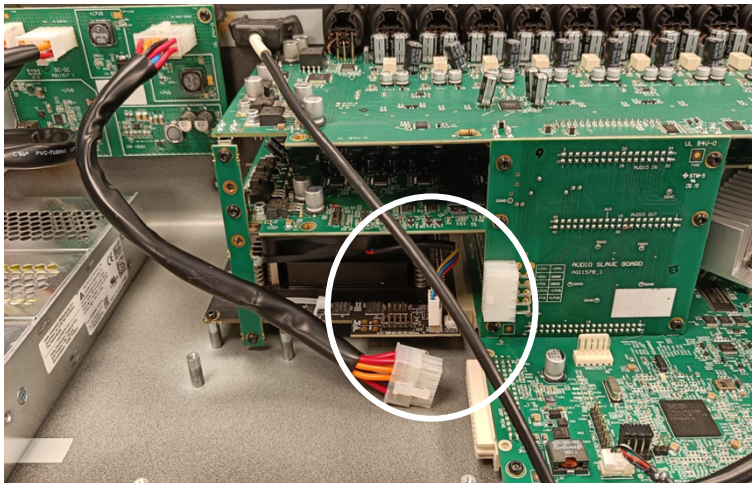


10) **Cut** cable tie shown.

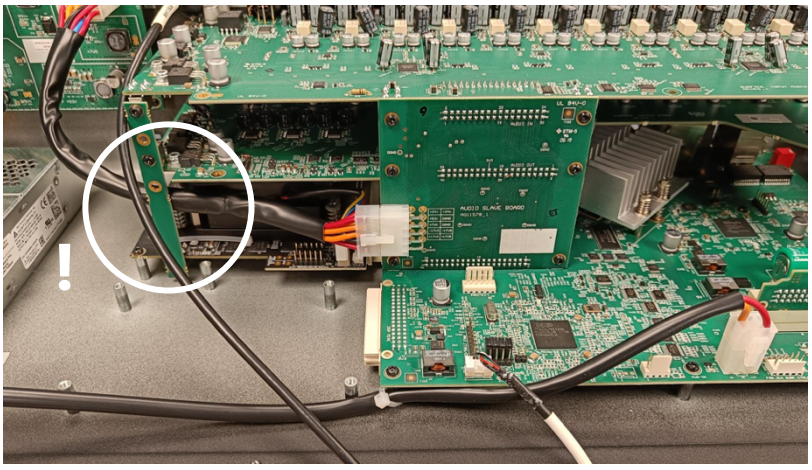


11) **Disconnect** Audio Slave to DC/DC Board Connector.

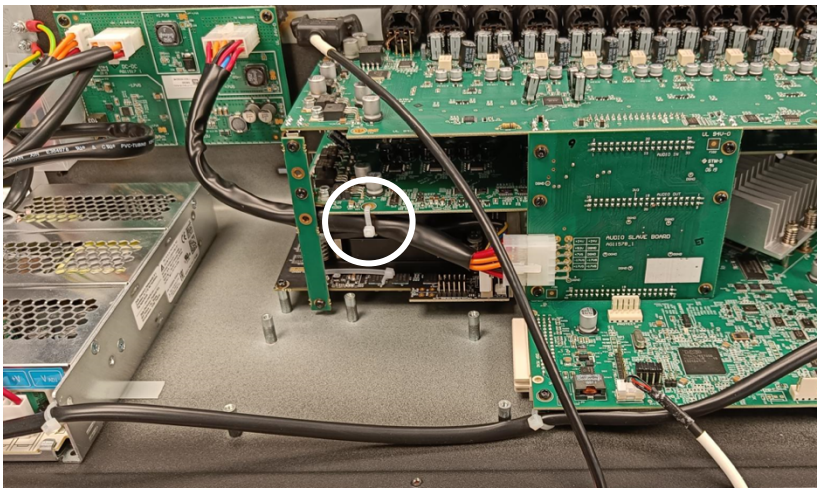




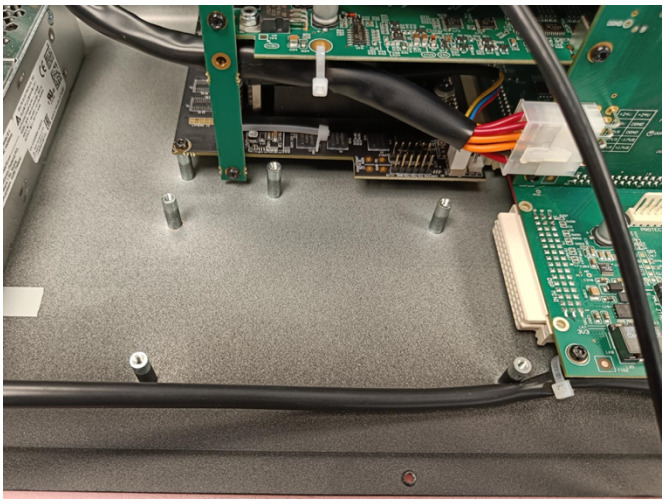
12) **Connect** Audio Slave to DC/DC Board Connector as shown.

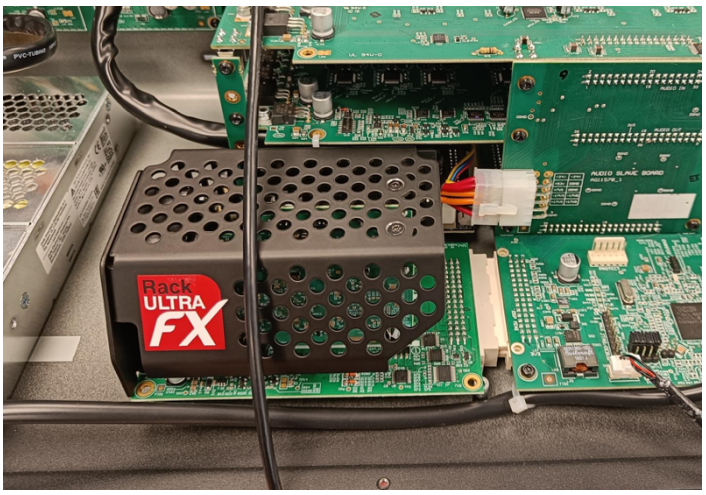


13) **Secure** Audio Slave to DC/DC Board Connector as shown with a cable tie.

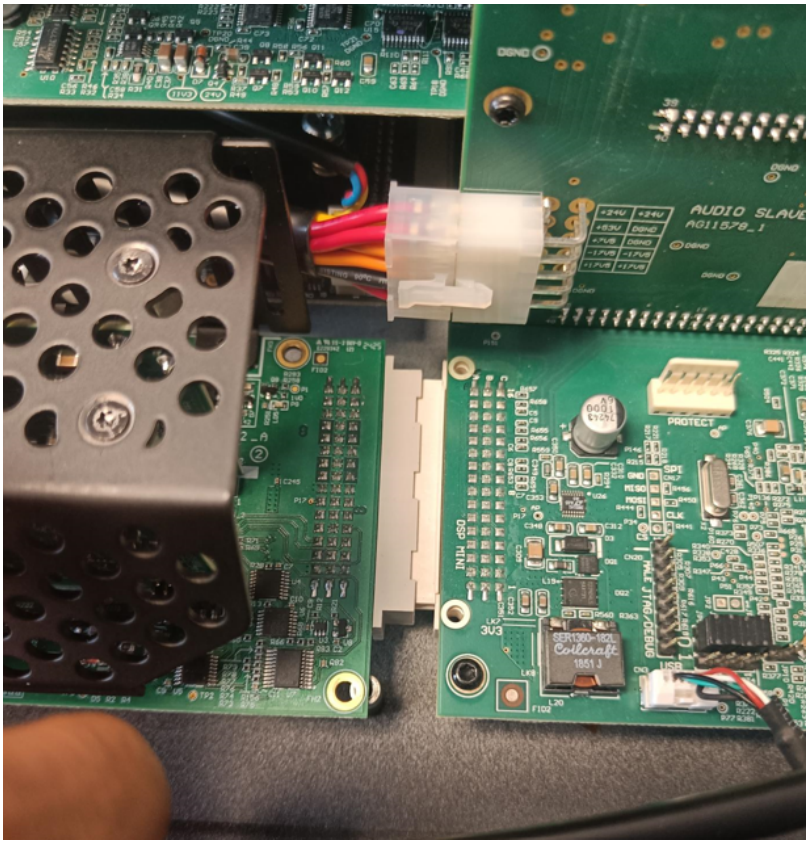


14) **Partially** fit RackUltra FX Module as shown.





15) **Fit** RackUltra FX module.

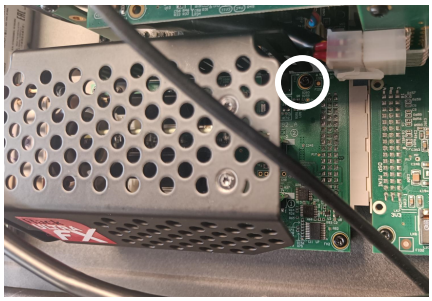


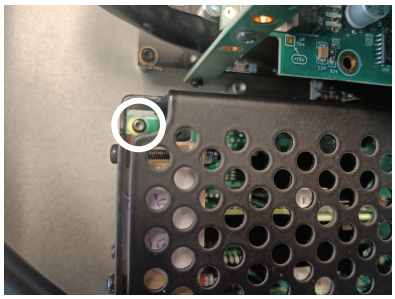
16) **Make sure** connector remains parallel while fitting.



17) **Secure** RackUltra FX module with screws AB0072 (x4 T10) as shown.

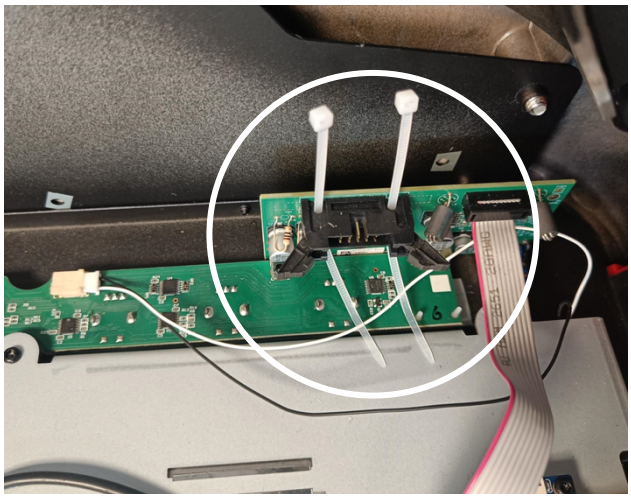






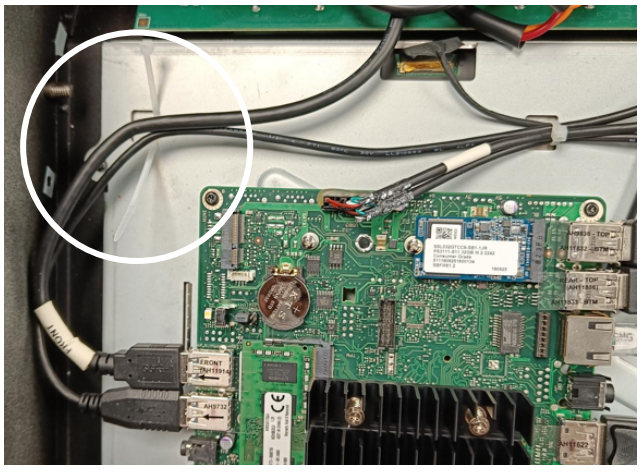
18) **Fit** two cable ties as shown

ⓘ **Location B** from step 5.

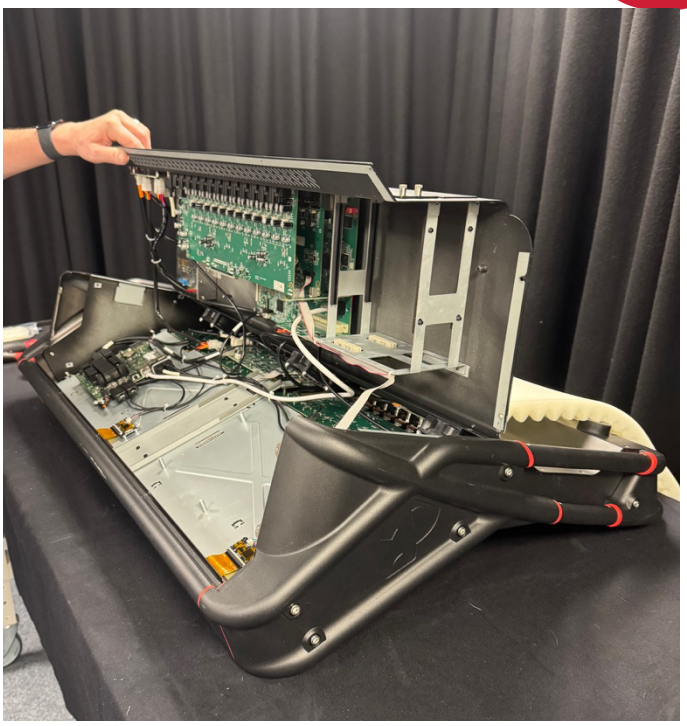


19) **Fit** cable tie as shown

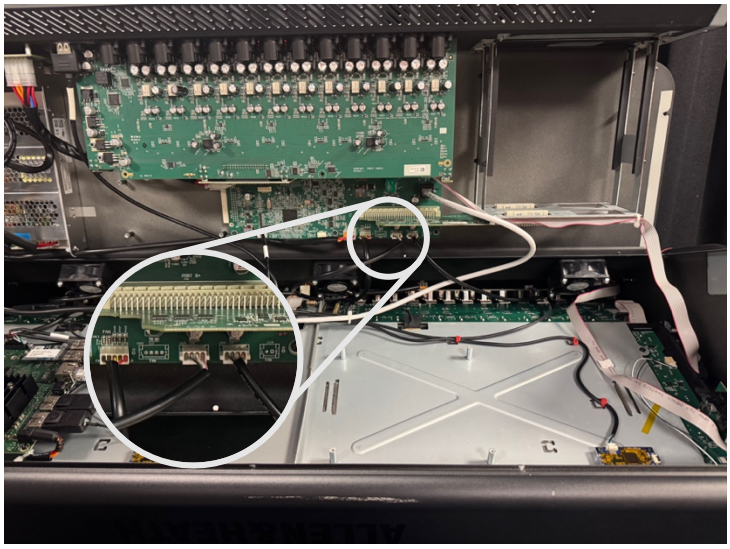
ⓘ **Location A** from step 5.



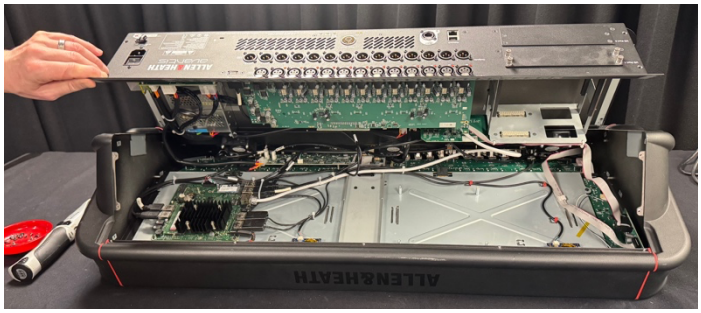
20) **Position** Rear Panel to 90° as shown.



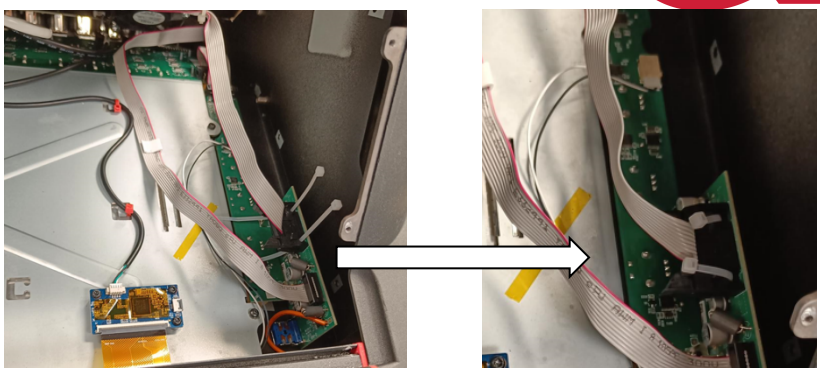
21) **Reconnect** connectors as shown.



22) **Partially Fit** Rear Panel

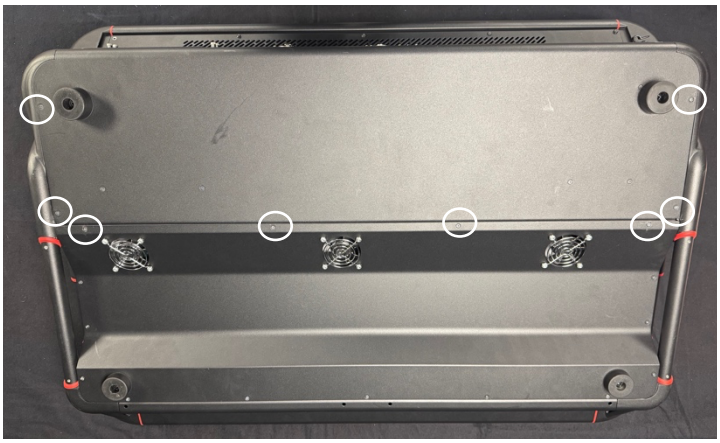


23) At **Location B Fit** Headphone Audio Ribbon cable

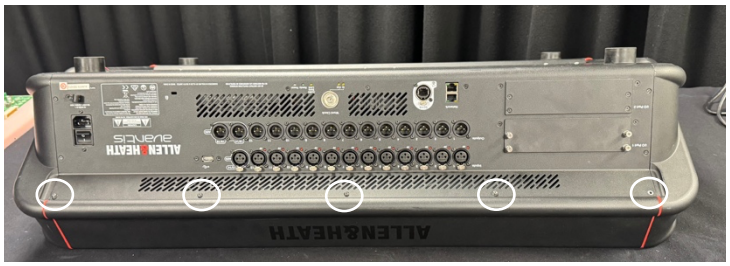


24) **Secure** AB8592 screws (x12 T8) shown.





25) **Secure** AB2909 screws (x5 T10) shown.



Please follow the Instructions for all consoles on page 24.

Avantis Solo

1) **Place** the console on a protective mat or surface.

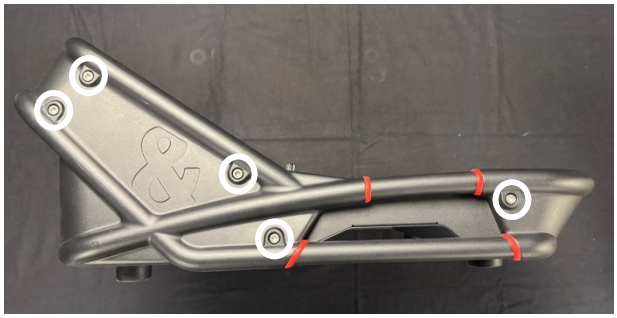
2) **Remove** the **Left** side trim

   a. AB11824 (x5) T30

   b. AB12099 (x1) T30

   c. AB8592 (x2) T8

a.



b.



c.



3) **Position** console as shown.

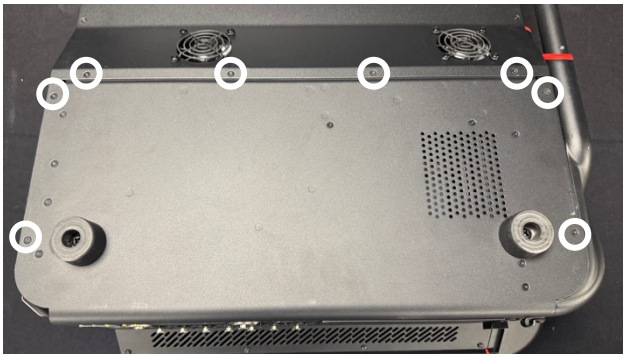


4) **Remove** AB2809 (x4) T10



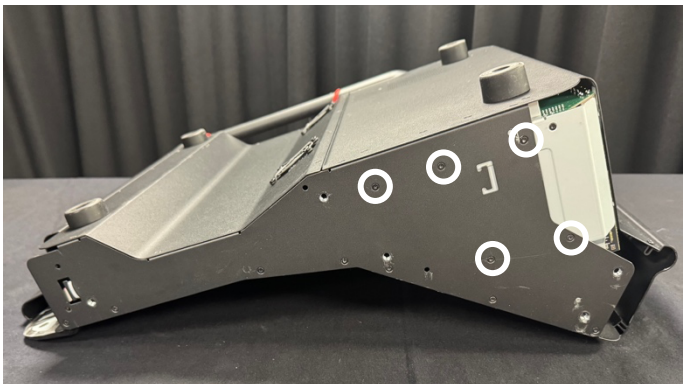
5) **Remove** AB8592 (x10) T8





6) **Remove** AB8592 (x5) T8 shown.

ⓘ Remove **only** the screws shown.



7) **Remove** Rear Panel to position shown.



8) **Location A - Disconnect** Network Cable (AH11116)

9) **Location B**

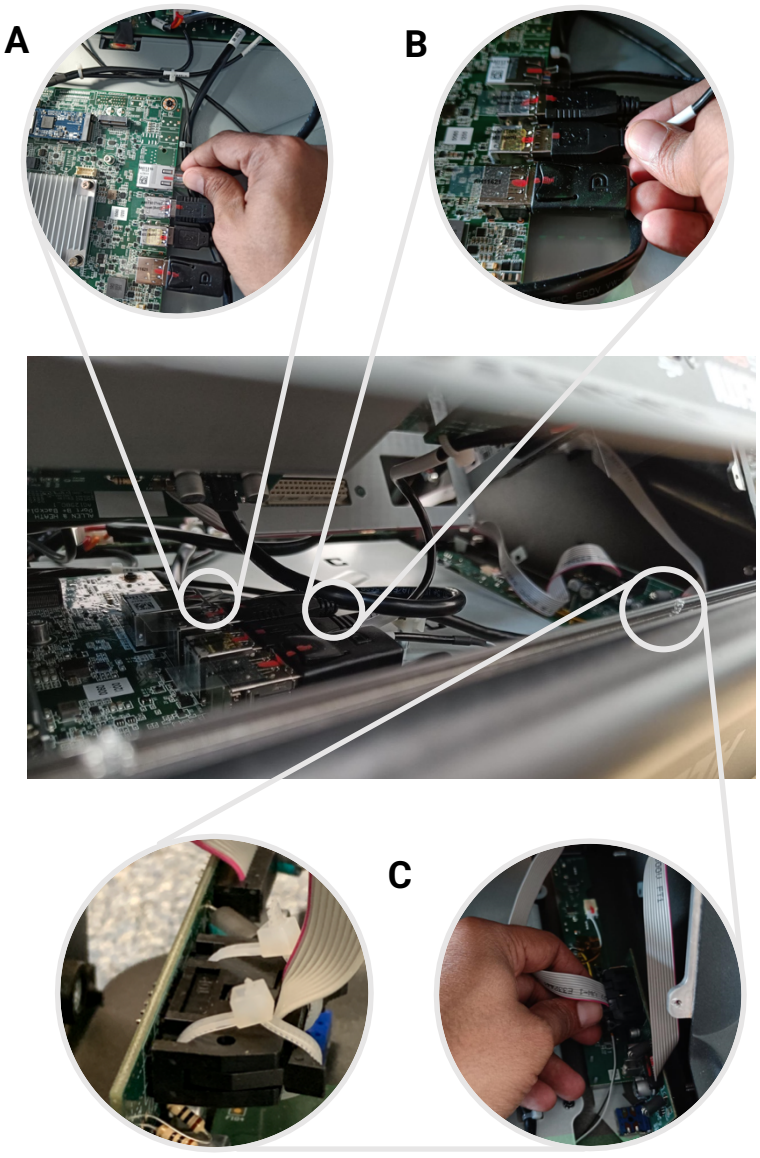
   a. **Cut** cable tie securing USB cable 004-1651.

   b. **Disconnect** USB cable 004-165.

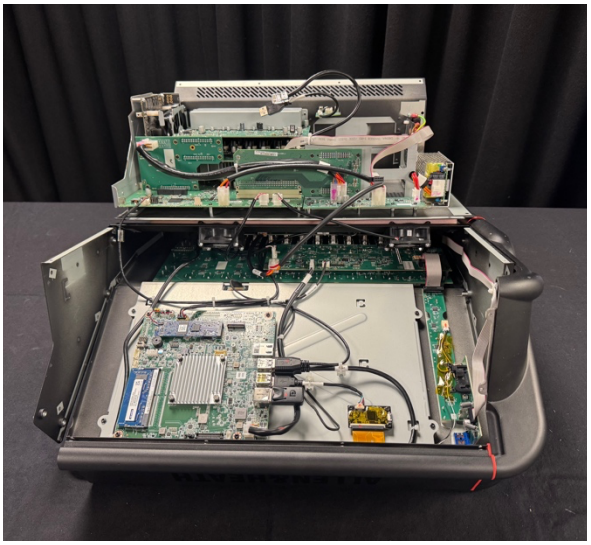
10) **Location C**

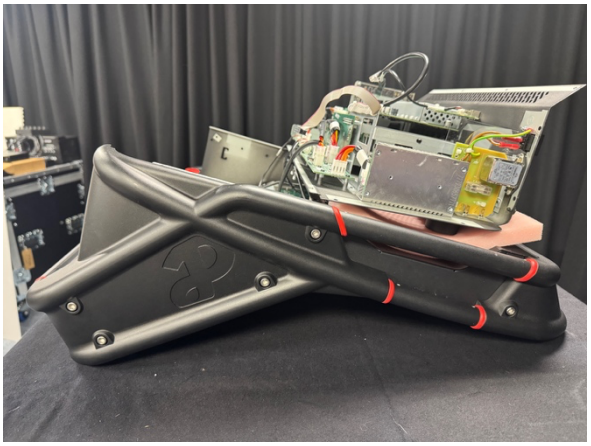
   a. **Cut** cable tie securing Audio Input Ribbon Cable.

   b. **Disconnect** Audio Input Ribbon Cable.

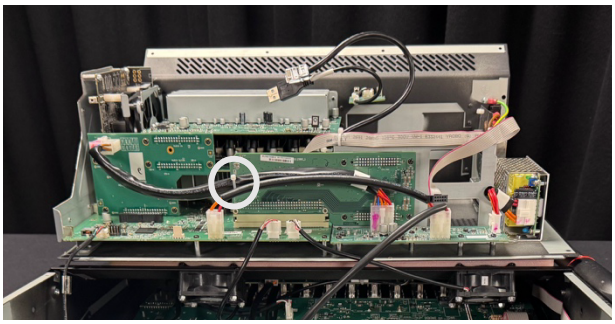


11) **Rotate** Rear Panel as shown.

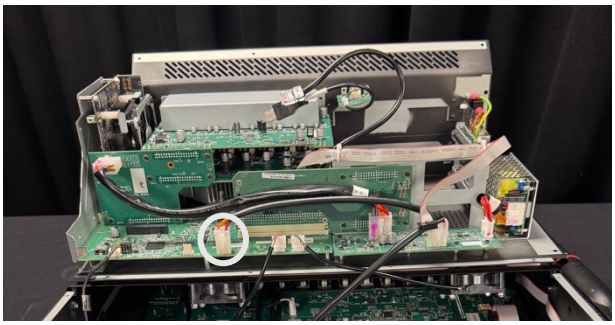




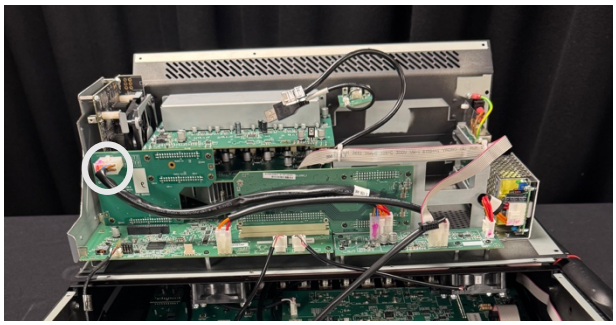
12) **Cut** cable tie securing cable 004-1621.



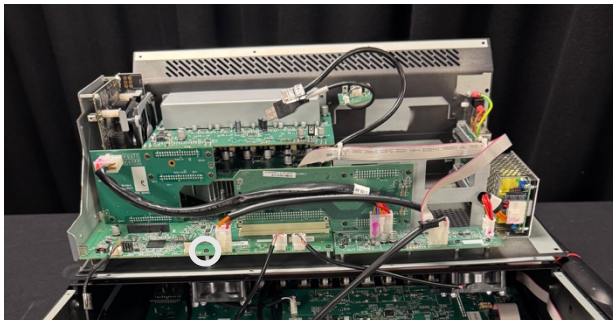
13) **Disconnect** 004-1621.



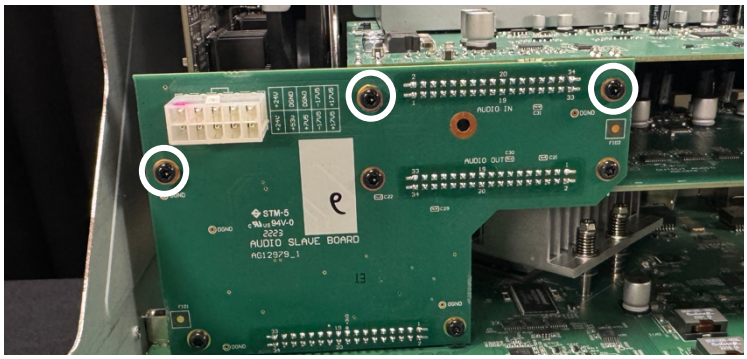
14) **Disconnect** 004-1620.



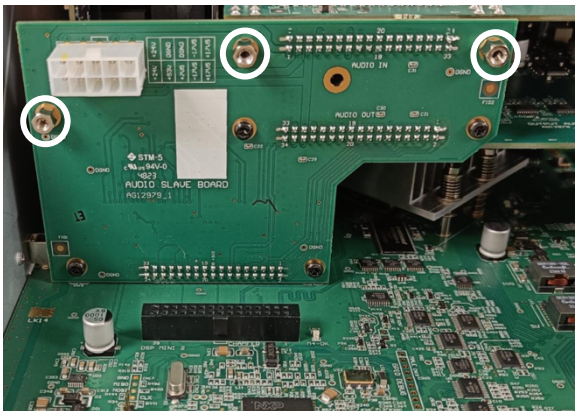
15) **Remove** screw AB0072 (x1) T8 shown.



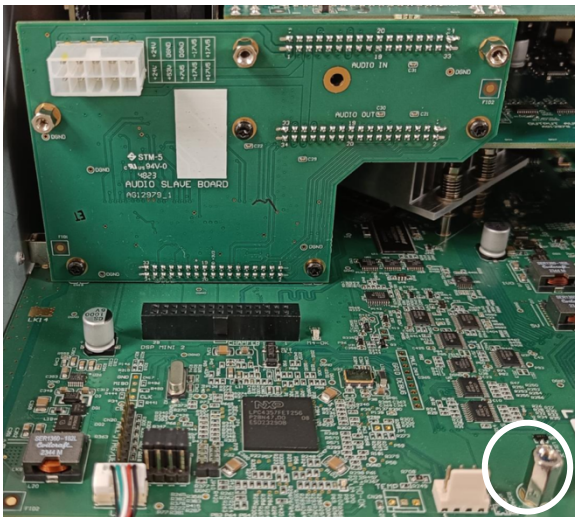
16) **Remove** screw AB0072 (x3) T10 as shown and discard screws.



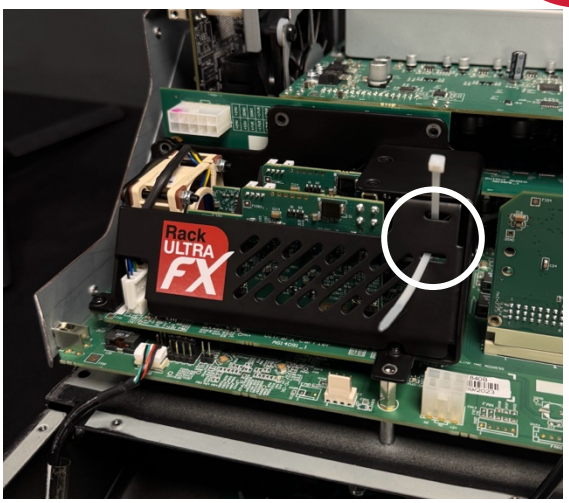
17) **Fit** AB4040 (x3) 6mm Hex Socket.



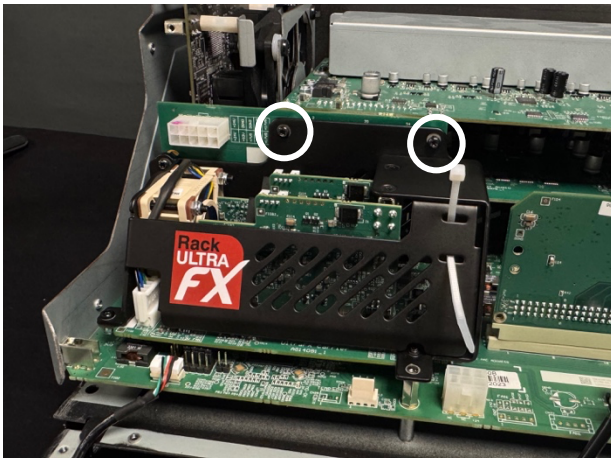
18) **Fit** AB14259 (x1) 6mm Hex Socket.



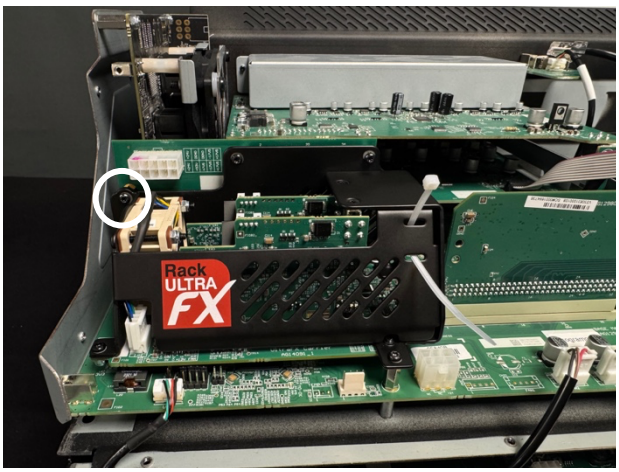
19) **Fit** Rack Ultra FX module and prepare with cable tie as shown.



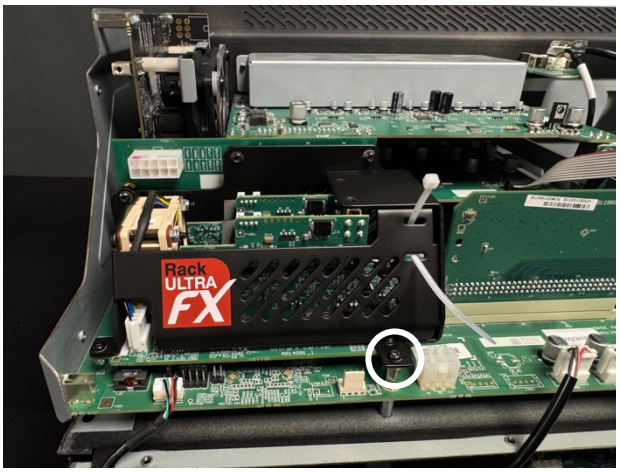
20) **Fit** Screw AB0072 (x2) T8.



21) **Fit** Screw AB0073 (x1) T8.

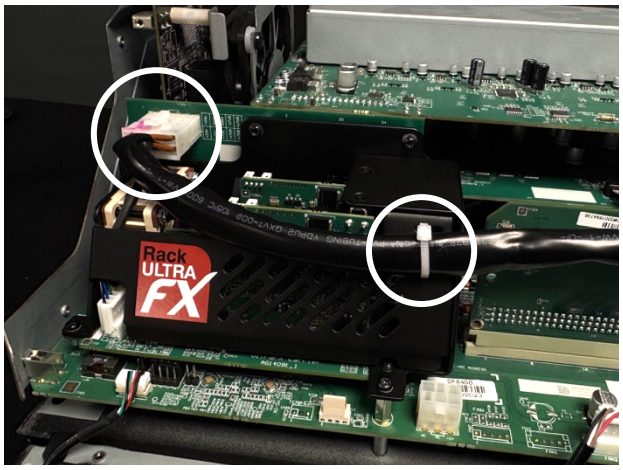


22) **Fit** Screw AB12313 (x1)

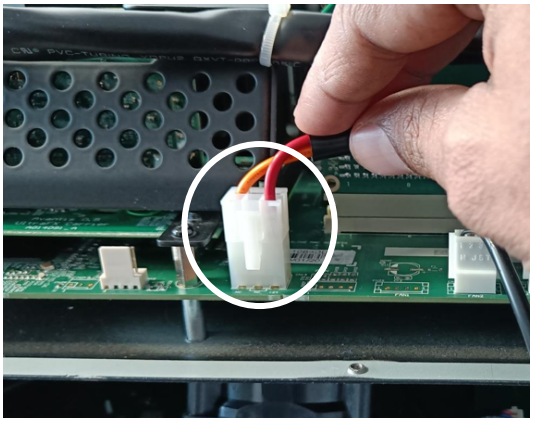


23) **Reconnect** 004-1621

24) **Secure** 004-1621 with cable tie.



25) **Reconnect** 004-1620



26) **Location A - Reconnect** Network Cable (AH11116)

27) **Location B**

a. **Reconnect** USB cable 004-165.

b. **Secure** 004-1651 using cable tie.

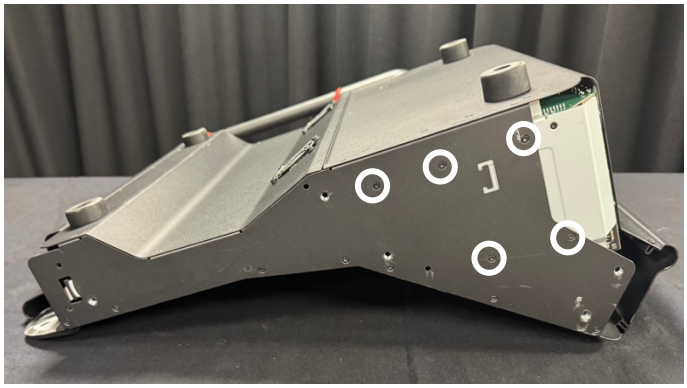
28) **Location C**

a. **Reconnect** Audio Input Ribbon Cable.

b. **Secure** Audio Input Ribbon Cable with cable ties as shown.

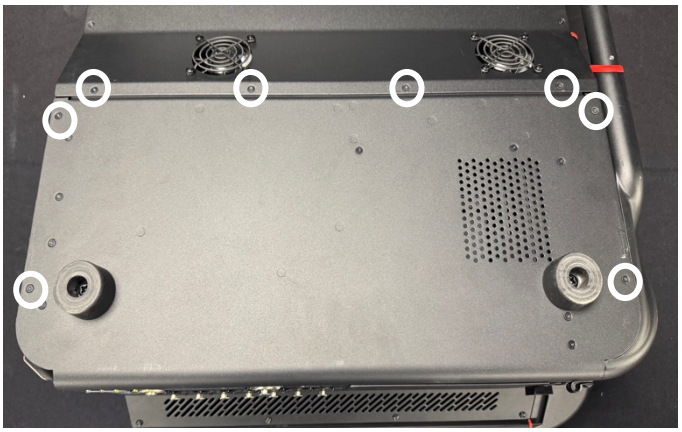


29) **Fit AB8592 (x9) T8 shown.**



30) **Fit AB8592 screws (x10) T8 shown.**





31) **Fit** AB2809 (x4) T10 shown.



32) **Fit** left side trim.

a. AB8592 (x2) T8

b. AB12099 (x1) T30

a.

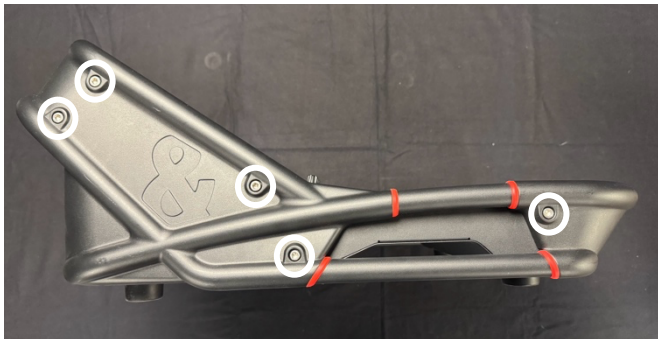


b.



c. AB11824 (x5) T30

c.



Please follow the Instructions for all consoles on page 24.

After Fitting (All Consoles)

After fitting the RackUltra FX module to Avantis or Avantis Solo **update** the console firmware.

The latest firmware can be found - https://www.allen-heath.com/hardware/avantis/avantis-dual-screen/resources/

For further assistance please refer to the Firmware Update Instructions - https://www.allen-heath.com/content/uploads/2023/06/Avantis-firmware-update-instructions-IssD.pdf

ⓘ The RackUltra FX Module **requires** Avantis Firmware V2.00 or greater.

ⓘ Avantis consoles *require* **dPack** *and* a **RackUltra FX Module** to access **RackUltra FX**.

All consoles should be inspected for any obvious damage and remedied.

Review the service manual for the console you're working on. Please pay particular attention to;

- Backlight cable routing
  - Please ensure cables are secure as per the instructions in the service manual.
- Touchscreen USB cables
  - Additional hot melt glue has been to the Touchscreen connector on newer consoles. Please ensure Touchscreen USB cables are affixed as per the instructions in the service manual.

Perform a Fader Motor Calibration and ensure all faders move correctly on layer changes.

Please confirm that the Rack Ultra FX card is successfully recognised by the Avantis.

- Navigate to **Utility / Status.**
- Touch **Console** to show the Console Status.
- You should see **Rack UltraFX** with a green tick as shown below.

