

# TECHNICAL NOTE

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## **S Series MIXER** **Replacement of Touch LCD Screen**

The following notes are to assist technicians in the replacement of the Touch LCD Screen fitted to the front panel assembly.

**Important note:** This is not considered an operator action. This note is for the use of technicians only.

Read the instructions carefully before starting and leave yourself time to perform the work.

### **Tools Required**

Pozi-screwdriver 1 pt (PZ1)

2mm Hexagonal driver (Allen Key)

5.5mm Socket driver for M3 nuts.

Soft material (e.g. bubble wrap) for resting panels flat on

### **Ensure you have taken appropriate anti-static precautions.**

Avoid working in areas with synthetic floor coverings or carpet, especially polypropylene material, as opposed to natural materials such as solid wood or wool. Ideally work at a proper workbench with ESD safe features, such as a metal frame. Before work, try to discharge yourself into a mains earth fitting, water pipe etc.

This is important as internal parts of the mixer are static sensitive and even if any damage is not immediately obvious, so called "latent damage" can occur, where a device may be partially degraded yet continue to perform its intended function. However, the operating life of the device may be reduced dramatically, leading to premature failure.

If you are unsure about any part of the upgrade procedure, seek advice before proceeding.

### **Before you start:**

Shut the mixer down, switch off, and remove power leads.

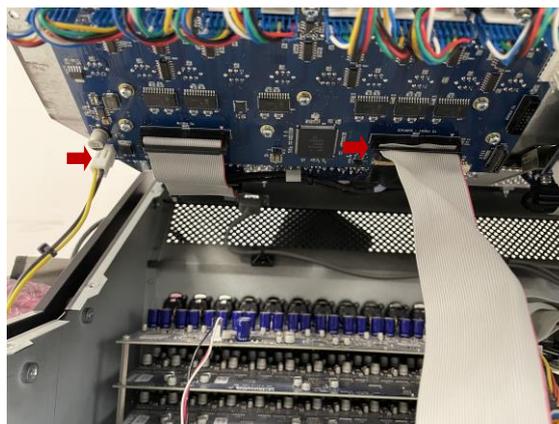
## Removing Panels

Step 1 - Remove all the encoder knobs from the encoders below the screen that is being replaced

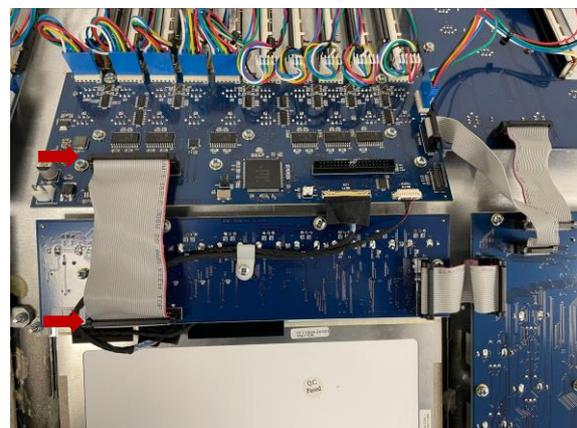
Step 2 - Remove hex screws from the front panel of the console using a regular 2mm hex driver.



Step 3 – Slowly lift the lower section first and disconnect the power and grey ribbon cable from the fader driver PCB which frees up the front panel to be removed from the console chassis.



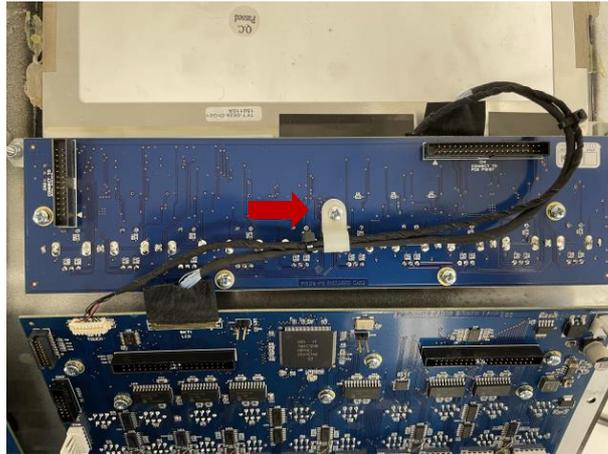
Step 4 - Unplug the grey ribbon cables connecting the fader driver card to the encoder card.



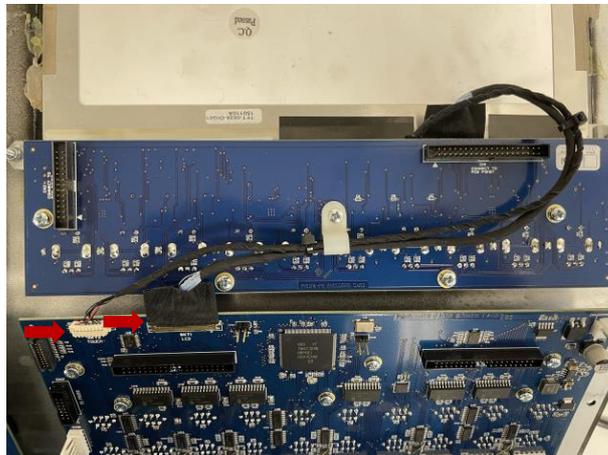
Step 5 – Unplug the USB cable from the USB socket in the top left.

## Panel Disassembly

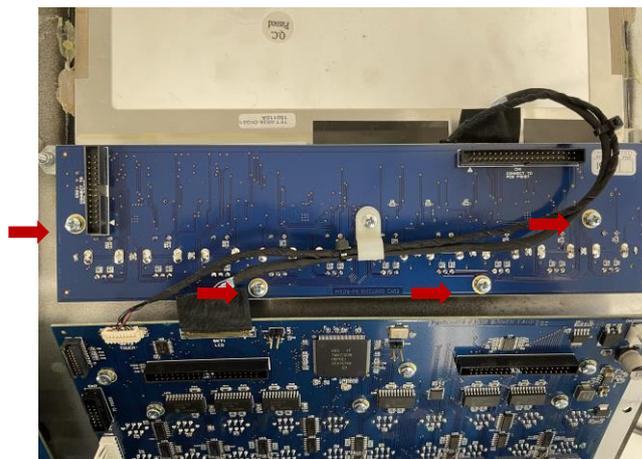
Step 1 - Unscrew the cable restraint from the encoder card.



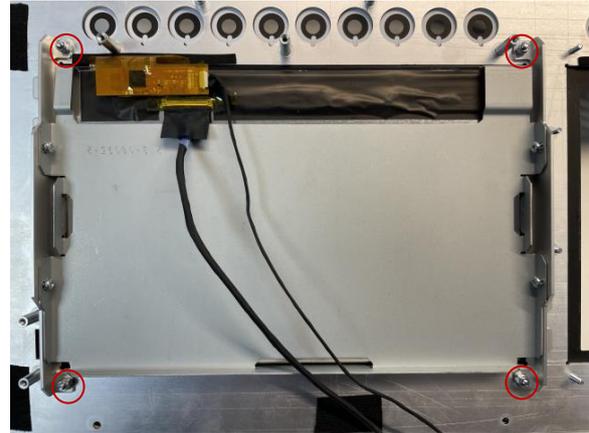
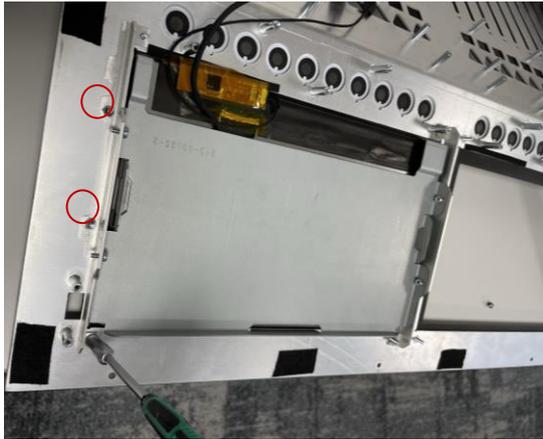
Step 2 - Unplug the display drive cable and the touch cable from the encoder card.



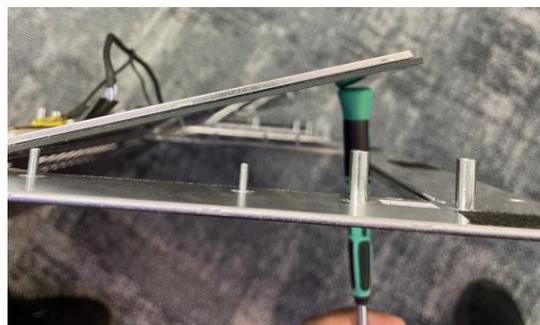
Step 3 – Remove the Phillips head screws from the encoder PCB and remove the PCB from the panel.



Step 4- Remove the nuts on the bracket holding the screen with a 5.5mm socket driver and remove the brackets.



Step 5 – Proceed with caution as any tear to the Vinyl on the panel can only be fixed by replacing the whole front panel metal assembly. The display is bonded to the panel metalwork with double sided tape. Carefully unbind this by applying pressure on the display at the edges. It may be required to apply some heat with a hot air gun around the edges to help remove this more easily.



Step 6 - Once the display has been released, remove any excess tape that may be left on the panel.

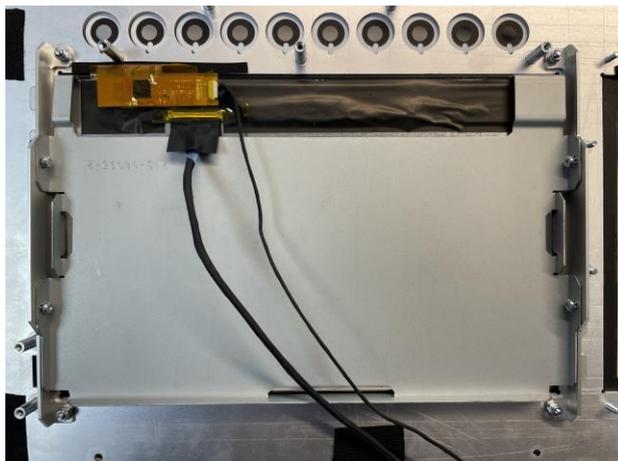
## Fit Replacement Display and Reassemble

Step 1 - Carefully lay screen side down on a clean surface.

Step 2 - Place the screen in its position on the vinyl ensuring the correct orientation for the connectors.



Step 3 – Re install the metal bracket to the panel and secure with the M3 nuts.



Step 4 - Place the encoder PCB and secure it with the Phillips screws.



Step 5 – Reconnect the Touchscreen driver cable and touch cable to the fader driver card.

Step 6 – Secure the cables in the cable restraint.

Step 7 – Reconnect the USB cable to the socket.

Step 8 – Reconnect the grey ribbon cables connecting the fader driver card to the encoder card.

Step 9 – Reconnect the grey ribbon cable from the Engine card to the fader driver PCB

Step 10 – Reconnect the power cables from the PSU.

Step 11 – Fit the hex screws of the front panel.

Power on and verify the screen display and touch are working as expected.