TECHNICAL NOTE

Date: March 2026
Ref: TN 652
Raised by: VL
Distributed to: As Required

DiGiCo (UK) Ltd.
No.5 The Distillery, Silverglade Business Park, Leatherhead Road, Chessington, KT9 2QL, England.
Tel: +44 1372 845600 | email: support@digiconsoles.com | www.DiGiCo.biz

Fitting Fourier Interface Option Card
SD9

Important Note: These instructions are a guide to fitting the Fourier Interface Option Card to this mixer. This option is normally supplied factory fitted and is not considered a user installed option. This note is for the use of factory approved technicians only. The USB key included in the kit includes these installation instructions and the operation manual.

Before proceeding, first check the version of software and computer hardware in use.

Confirm the version of software presently running on the mixer. See master screen when the mixer is running.

If the existing mixer system is V760 (or below) and it is not intended to purchase Core 2 be aware V760 does not support Fourier and the option should NOT be fitted. Contact local support for advice.

Console is required to run v2126 to be able to support the Fourier Interface Card.

The console should be fitted with 8GB drive and 1GB RAM, which can be ordered with the Fourier Interface Update Kit.

Generally, mixers built and supplied after Mid 2013 are fitted with 8GB drive and 1GB RAM.

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 fitment, water pipe etc.

This is important as parts of this kit 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.

Read the instructions carefully before starting as there are several different versions of SD9 over the life of the system requiring different work to be performed. Leave yourself plenty of time to perform the upgrade.

You will need to have the following tools to hand:

- Pozi-screwdriver no.1.
- 2.0 Hexagonal driver (Allen key)
- 4.0 Hexagonal driver (Allen key)

You should also have:

- A Fourier transform.engine or another Dante audio device for post installation testing.

Procedure

Before you start:
Shut the SD9 down, switch off, and remove power leads. Remove all connections [MADI, MIDI, Audio, Keyboard and Mouse, VGA etc]

Removal of installed Waves card.
If the console was previously fitted with a Waves card, please consult TN244.
The removal of the card is the reverse procedure of the steps described in this Technical Note.

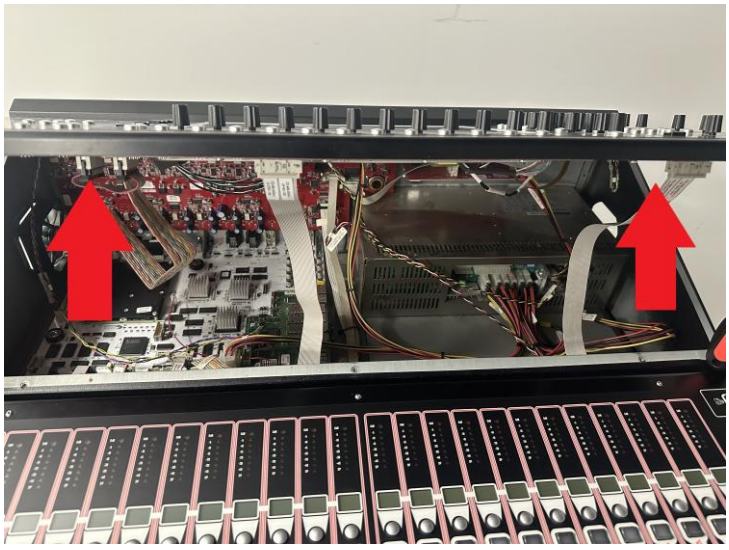
Note: These instructions are illustrated with a Mk 2 engine PCB, built up after 2013. Older mixers use the Mk 1 PCB which has small differences, notably a different colour main PCB which will be red.

Access console interior

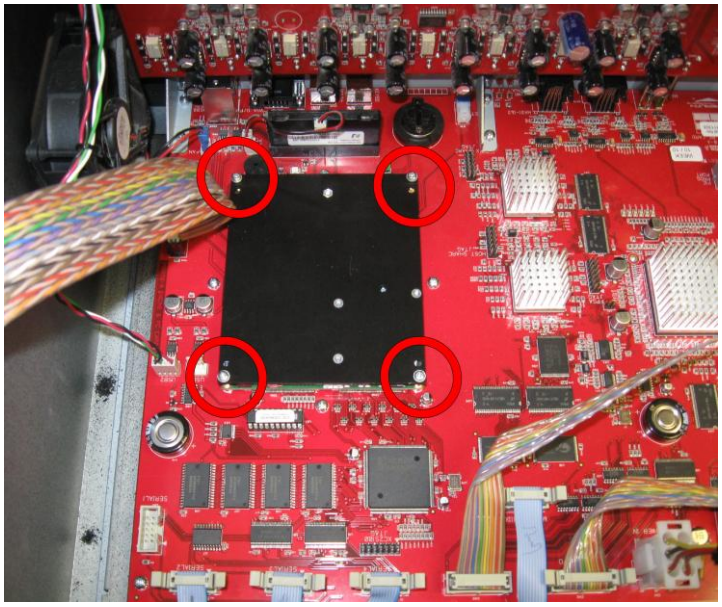
Remove the upper surface section by first removing the end cheeks; these are secured by 4 hex drive (4mm AF) bolts. Note the bolts are not all the same length and should go back in their original positions.

Next remove the 6x hex drive (2mm AF) screws that hold the upper surface panel in place.

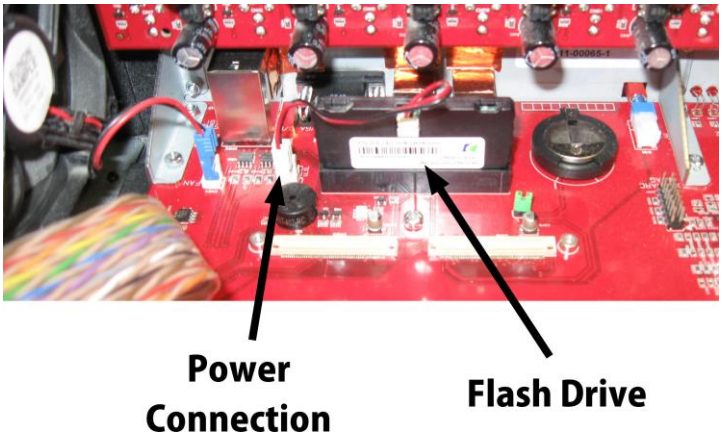
Lift the panel carefully and use a support to keep it lifted so the installation can be performed.



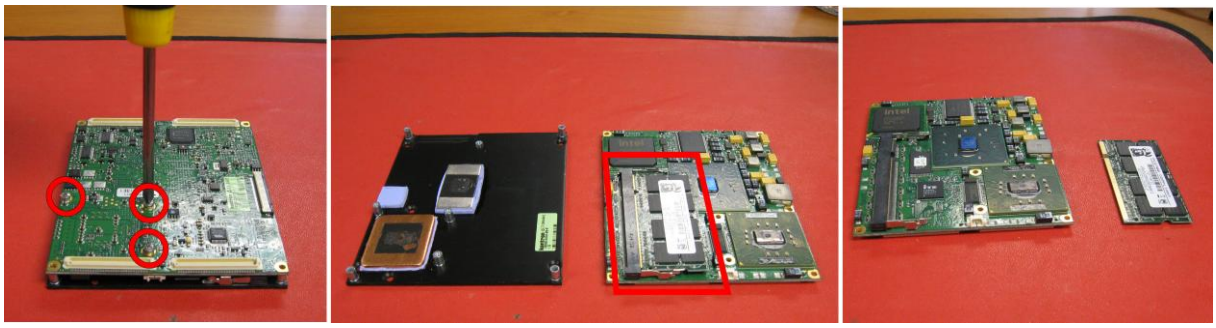
ONLY if required to update the computer hardware, locate the CPU assembly and remove the four securing screws, take care not to drop any washers from the screws into the console. Remove the CPU assembly.



Remove the Flash drive and replace with the Flash drive supplied in the kit. The new Flash drive is supplied with a power cable. Check connector orientation when unplugging and replugging.

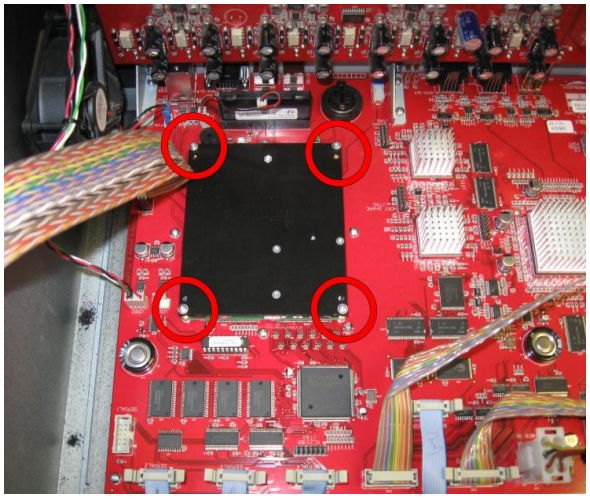


Place the CPU assembly on a suitable surface PCB side up and remove the three screws securing the heatsink. Lift off the PCB and place it down with the component side up. Release the clips securing the RAM module and remove the RAM module.



Fit the RAM module included in the kit; clip it down securely under the retaining clips at each end. Re fit the heatsink and three securing screws.

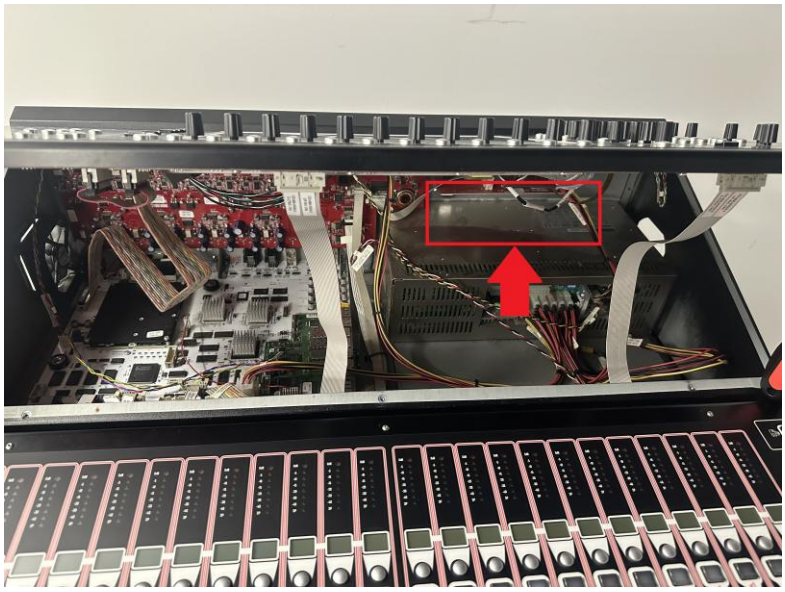
Re-fit the CPU assembly, making sure all four connectors click home; only after fitting the CPU replace the securing screws tightening them down evenly. DO NOT use the screws to draw the CPU to the base PCB



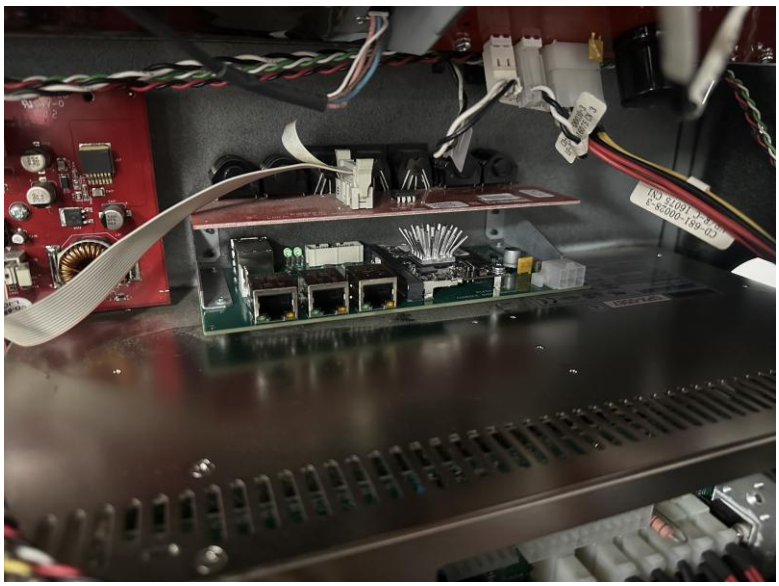
Fourier Interface Option PCB Module

Before fitting the Fourier interface module, remove all four screws on the back holding the blanking plate or waves card (if previously fitted) and place the sticker provided with the kit (see picture below).

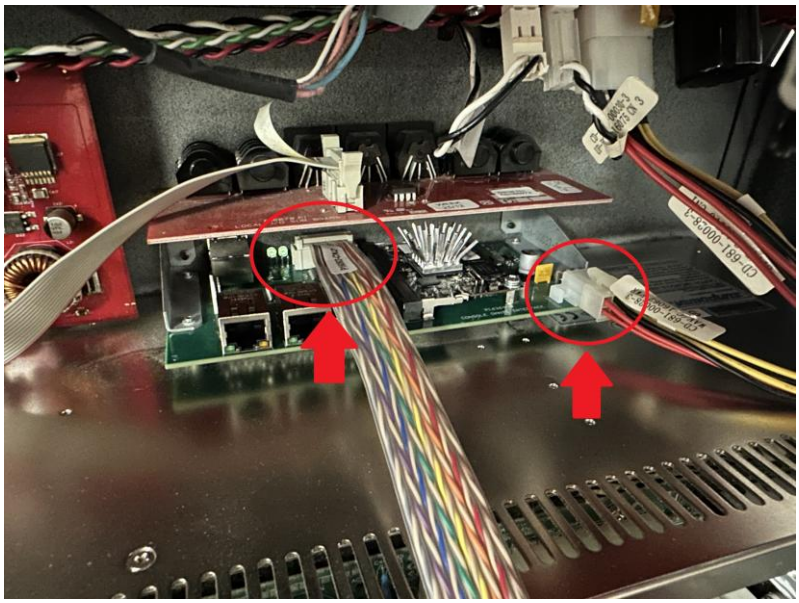
Inside the mixer locate where the Fourier interface will be installed.



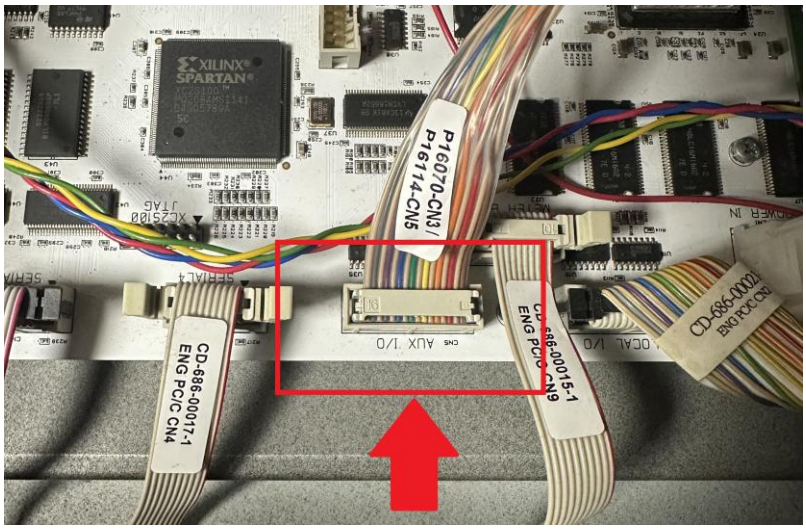
Fit the Fourier Interface module to the rear panel, using the screws provided.



Connect the ribbon and power cable to the Fourier PCB.



Connect the other end of the ribbon cable into the main engine, use the connector (marked CN5 Aux I/O).



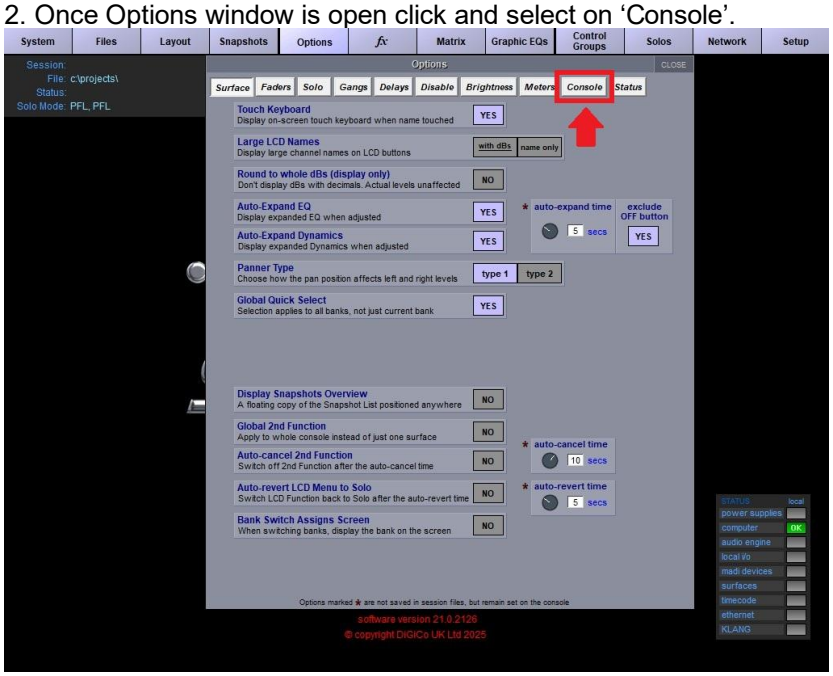
Reassemble the upper surface section to the console, referring to the disassembly instructions at the beginning of this document as necessary.

SOFTWARE SETUP NOTES

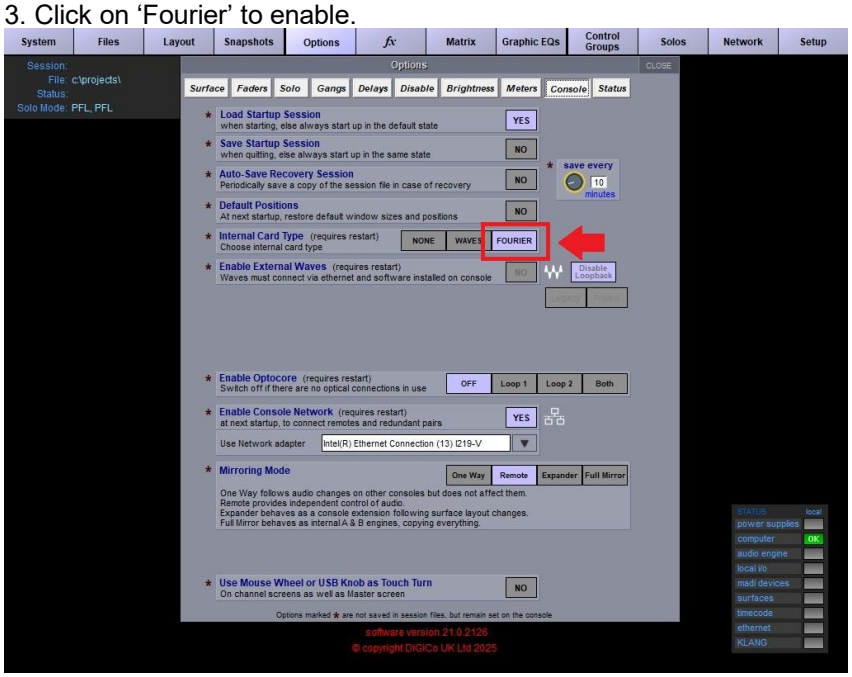
To enable Fourier Card:

1. On main screen click on ‘Options’.

2. Once Options window is open click and select on ‘Console’.



3. Click on ‘Fourier’ to enable.



4. Close and restart the console.

5. On the next boot, verify the Fourier port is enabled on the Audio I/O.

Installation has been completed.