

TECHNICAL NOTE

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Quantum 225 MIXER FITTING WAVES ® OPTION

Important Note: These instructions are a guide to fitting the Waves option 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 install instructions and the operation manual.

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

You will need to have the following tools to hand:

Pozi or Philips screwdriver no 0

Pozi-screwdriver 1 pt

2.0 Hexagonal driver (Allen Key)

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

You should also have:

- 1) Authorisations for Waves Multitrack, Superack, Waves Studio or a PC driver for recording at least, as obtained from Waves (<http://www.waveslive.com/html/soundgrid-for-digico.aspx>) This will be required to use the installation.
- 2) To fully test Waves functionality, you will also require a compatible PC to run the Waves software required, also usually a Soundgrid Server, a Waves approved 1GB Network switch and 3 CAT5e/CAT6 network cables. Details of approved switches and appropriate Cables can be found at <http://www.waveslive.com/html/soundgrid-switches.aspx>

Ensure you have taken appropriate anti-static precautions

The kit includes a disposable wrist strap and heel strap. Ensure you wear both. The wrist strap should be connected to the chassis of the engine whilst you work on it, in or out of the mixer. The heel strap ensures the skin of your leg is connected to the floor and not isolated by a rubber soled shoe.

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.

Before you start:

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

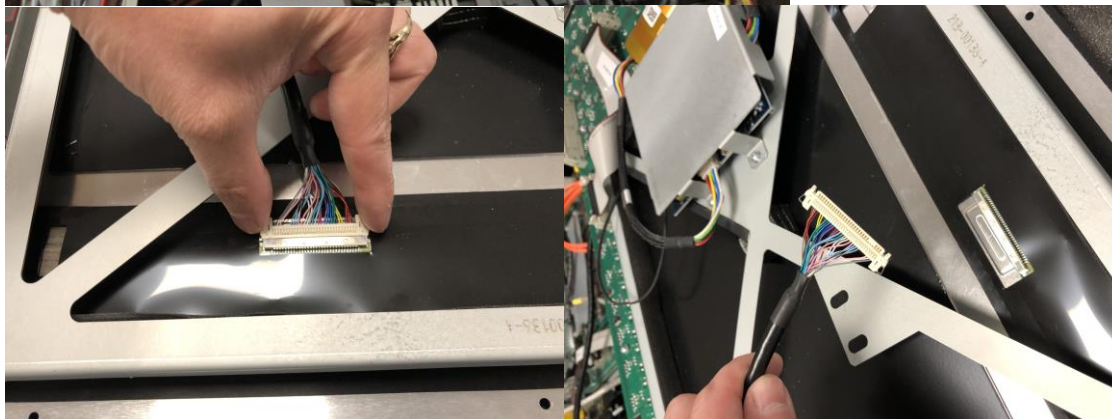
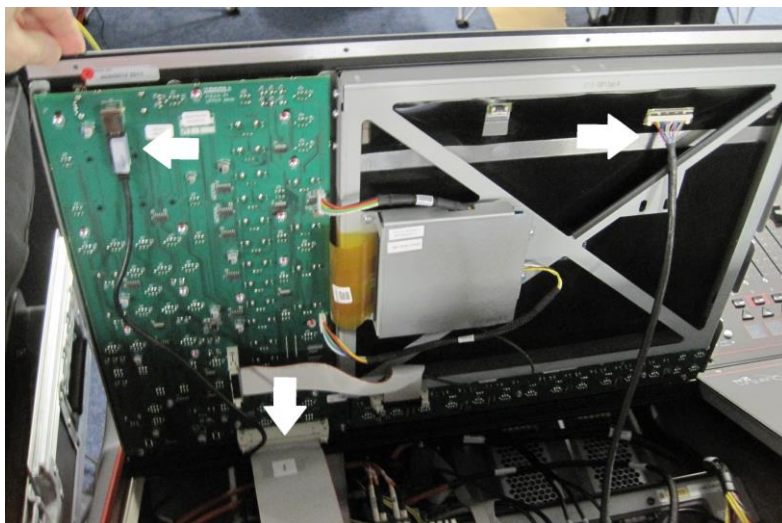
Access to mixer interior

Note that if the console is fitted with an external monitor mounted on the left upper panel it may be required to first remove the monitor in order to access the master upper panel.

Remove screws from the master panel surface.



Lift the panel and tip forward, Disconnect the USB cable, grey ribbon cable connecting to the lower surface and the display drive cable from the rear of the screen (squeeze the 2 ends of the connector to release) and then remove the master panel completely.



Waves Option PCB Module

Remove the blanking plate fitted by removing the screws on the rear of the console. Note the screws go into nuts on the inside of the console.



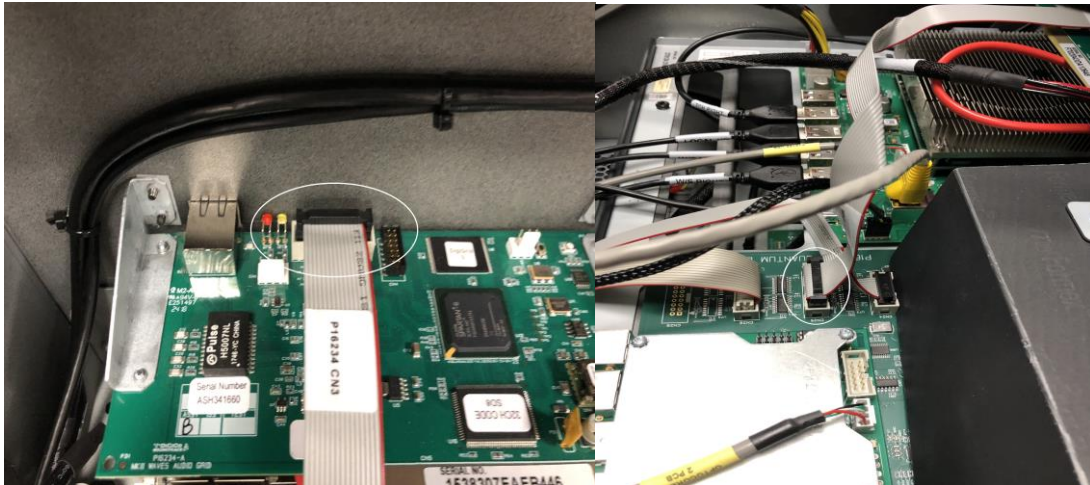
Within the mixer fit the Waves module to the rear panel, re-using the bolts from the blank.



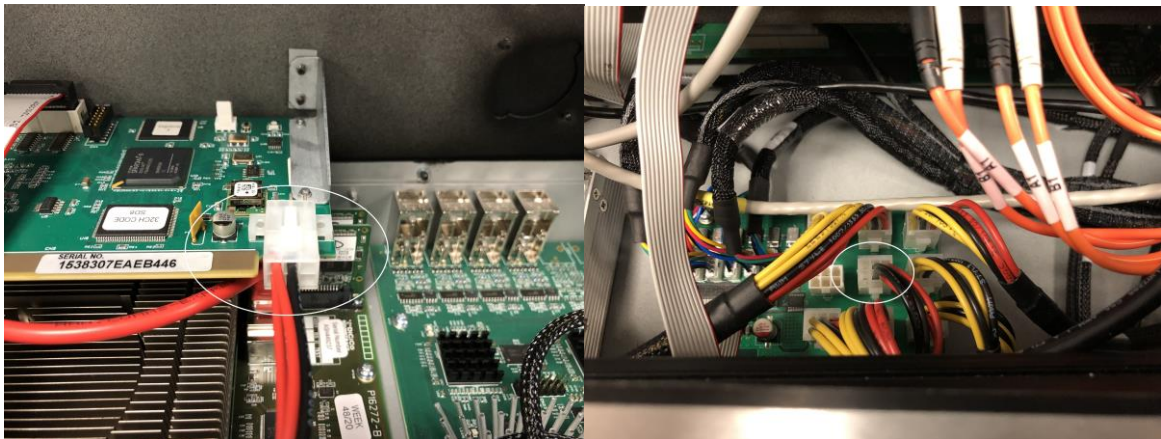
Take a note of the 12 character module Waves serial number on the PCB whilst this is being installed. This will be required for activating your Waves licence.

Waves Option cables

Fit the Waves interface loom 681-00373 from CN3 on the Waves card to CN25 on the P16163 Quantum Engine board.



Fit the Waves power loom 681-00347 from the Waves card to CN12 on the P16316 power distribution board.



The Waves hardware installation is now complete.

Reassemble the mixer

Reconnect the display drive cable and refit the master panel ensuring no cables are trapped.

Test the mixer functions

On completion of work connect the mixer to power and perform a functional test to confirm all screens and controls function correctly, prior to fixing the panel.

On completion of test, shut down and the switch off power.

Screw down panel.

SOFTWARE SETUP NOTES

Enable Waves in the Console options page and restart.

The Waves IO port will appear as an option and can be added in the audio IO page. The option will also activate external Waves control integration features allowing the Waves system to synchronize features such as snapshot firing and the session load and save, via Ethernet.

Q2 supports Waves only on a separate external control computer. Legacy internal Waves operation is not supported in any form.

Connect both the Waves port and one of the console network ports to the Waves compatible network switch.

Ensure the Waves computer is on the current version compatible with the mixer version installed on the mixer. Refer to your Waves Central account to download and install this, following instructions included from Waves.

The Waves port will appear as "Digico IO" in the Waves inventory. Refer to Waves instructions for the relevant Waves software for operation of the integration features.

If required, the PC waves audio only driver can be downloaded from Wave Central once an account has been created. This can be created at no initial cost by using the serial number recorded from the Wave module PCB above.