# TECHNICAL NOTE

Date: 13th September 2024

Ref: TN612

Raised by: ARD

Distributed to : As Required

## <u>Quantum 852 MIXER</u>

## Engine Replacement

**Important Note:** These instructions are a guide to replacing the engine in the Quantum 852 mixer. This note is for the use of factory approved technicians only.

Read the instructions carefully before starting and leave yourself time to perform the work. You will need to have the following tools to hand:

- Flat screwdriver
- Replacement MOD-Q8-ENG.


**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.

**Before you start**:

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

**Remove the Old Engine**

Remove the 4 x Thumbscrews on the engine.

Remove the ribbon cable and connectors paying attention to the connector locks under the connectors.



**Fit the New Engine**

Place the new engine in the engine slot and re-connect the cables.

Switch the console on.

'Hardware change detected' dialog box will appear.
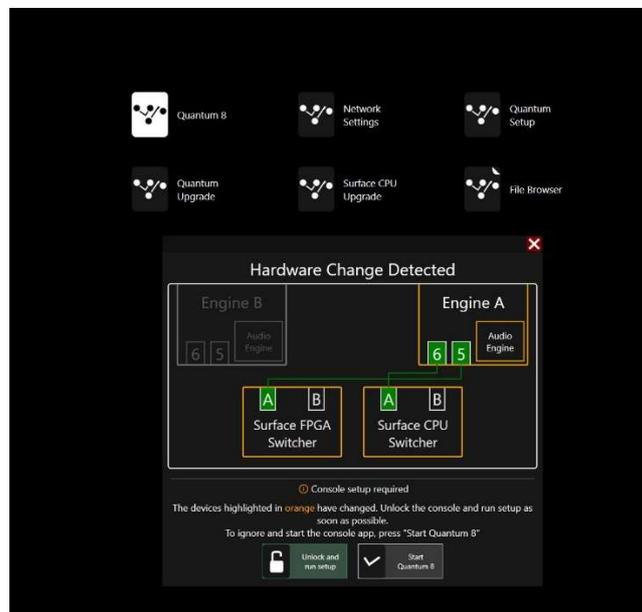


Click on Unlock and run Setup.

Allow the console to Restart.

Quantum Setup Utility will open. Click Setup. Configuring devices appears on the screen.
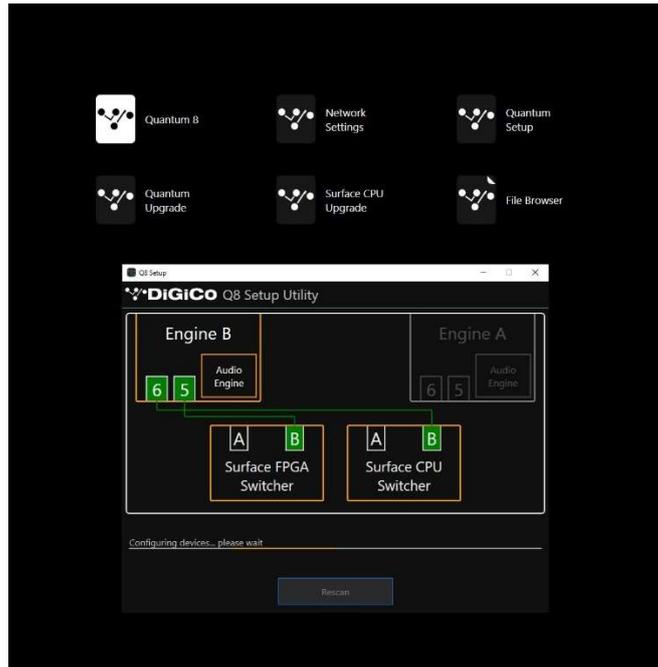
Once done, Setup successful message will be displayed.
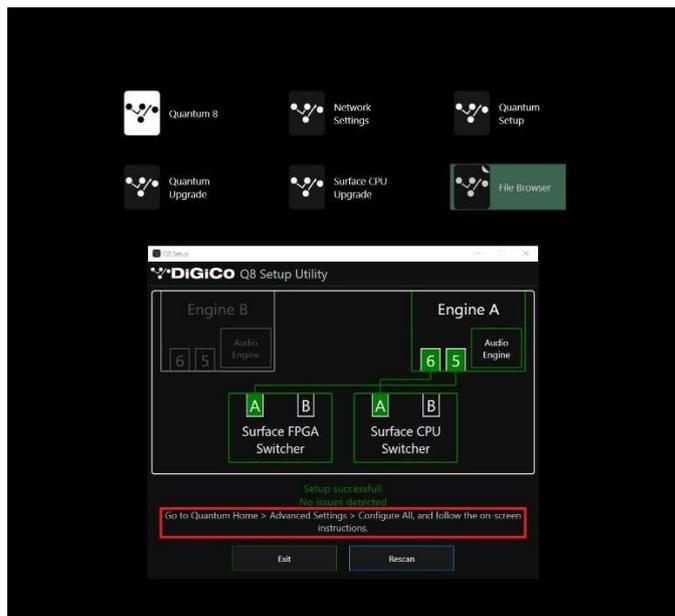


Next follow the on-screen prompt as highlighted.

Click exit.

Go to Quantum Home>Advanced settings> Configure All. This will configure the left, centre and right screens in the appropriate position and Orientation confirmed by the screen highlighted in blue in the respective screens.
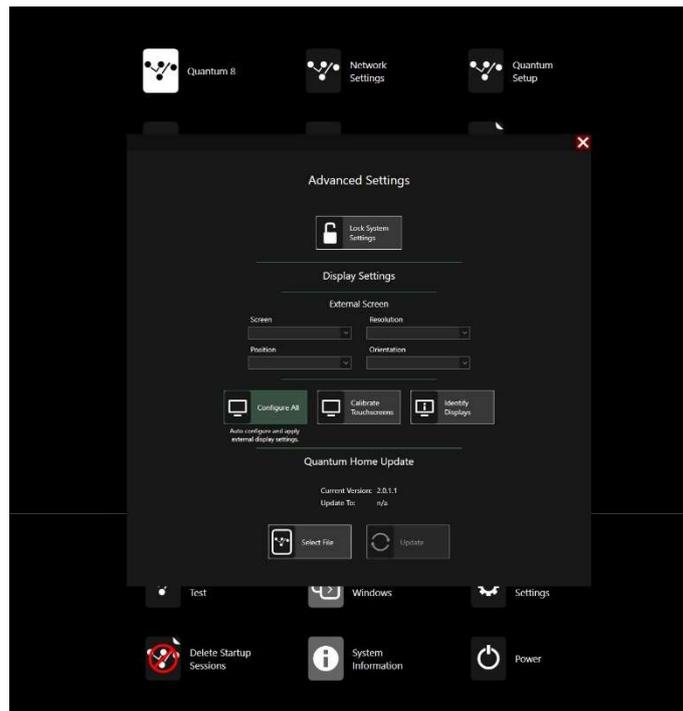
Configuration Successful message will be displayed.
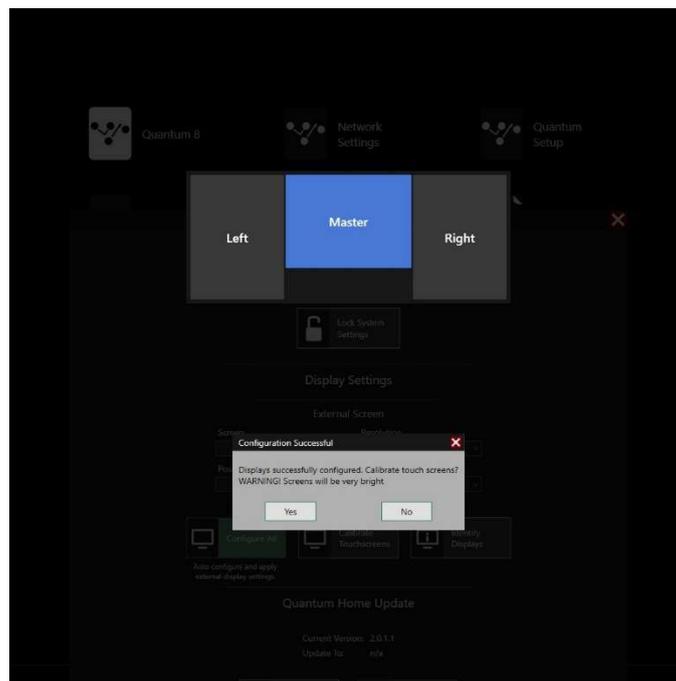


Next calibrate touchscreens.

Warning- Screen will be very bright for the next few steps.

Follow the on-screen instructions to tap the screen with a finger. Press Enter.

Tap this screen with a single finger to identify it as the touchscreen.

If this is not the Tablet PC screen, press Enter to move to the next screen. To close the tool, press Esc.

Follow the same procedure for the next two screens.

Once all the screens are done, Calibration Successful message will be displayed.
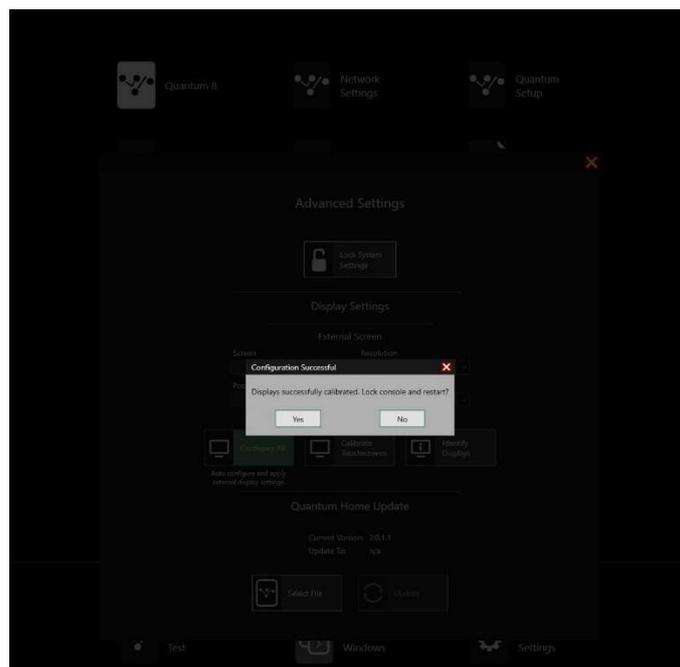


Click Yes on the Configuration successful to lock and Restart.

The console will restart and boot into the Quantum Application software.

Repeat this procedure with the second Engine if necessary, as prompted by the Hardware change detection utility.