How to fix the display issue on Maschine MKII

Maschine is a great product, but it's construction has not been thought through entirely. Here's how to fix a common issue with the Mk2 units.

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INTRODUCTION

Here's what you'll need:

- a screwdriver

- a little bit of a steady hand

- preferably use an anti-static device so you don't fry any chips on the mainboard!

in most cases it will void your warranty! which doesn't cover this issue anyway, because it is by design, and as such, intentional.

🔧 TOOLS:

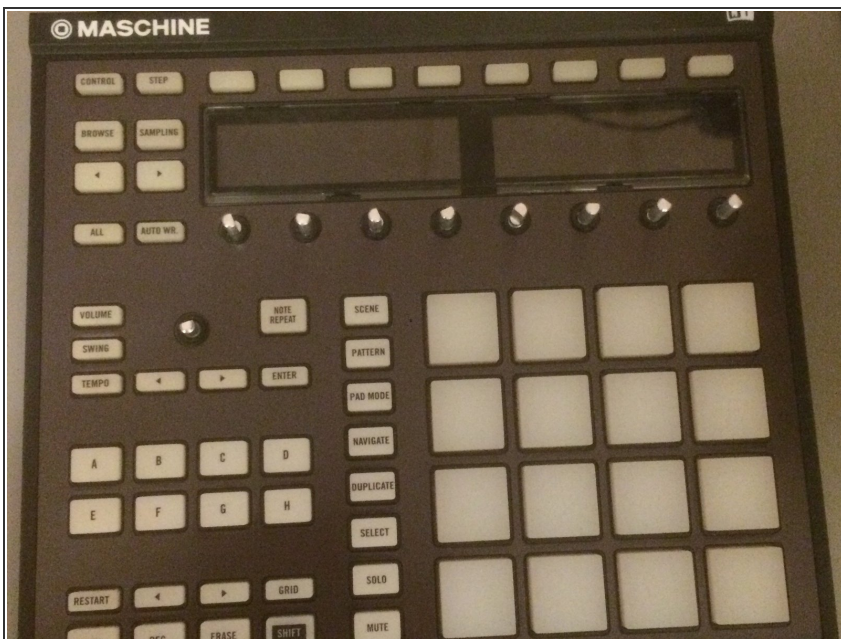- Phillips Screwdriver 4-5mm (1)

Step 1 — Diagnose

- As you can see the right display is brighter, and fuzzy.
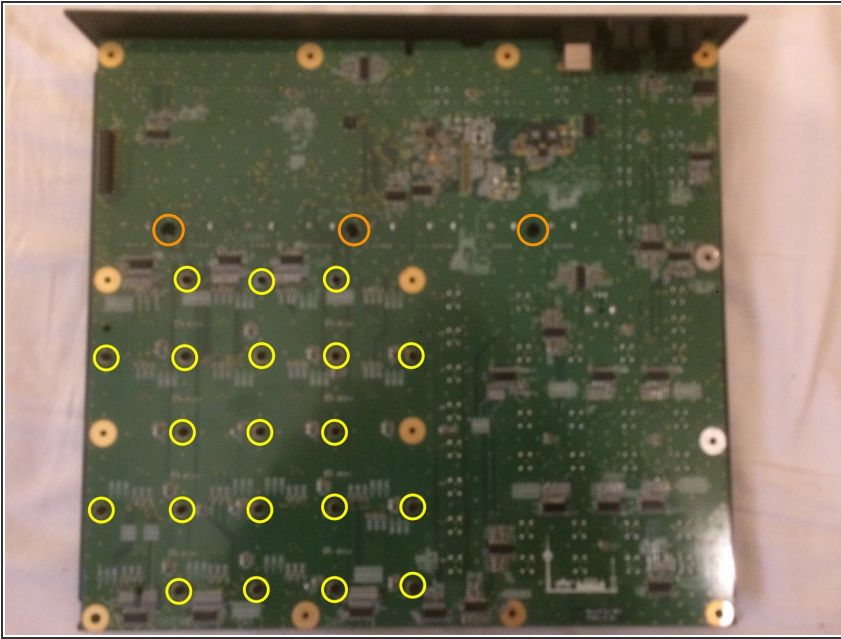
Step 2 — Remove all knobs

- since we don't know if we're going to remove the PCB, or if it's fixed to the knobs, it's best to remove all plastic caps

Step 3

- remove all screws marked in red, make sure you put them in a bag or a box, so you don't lose any.
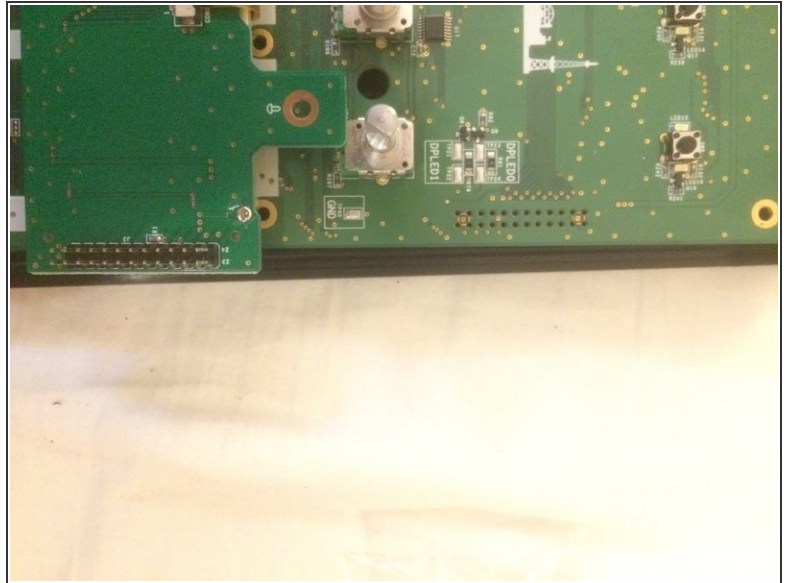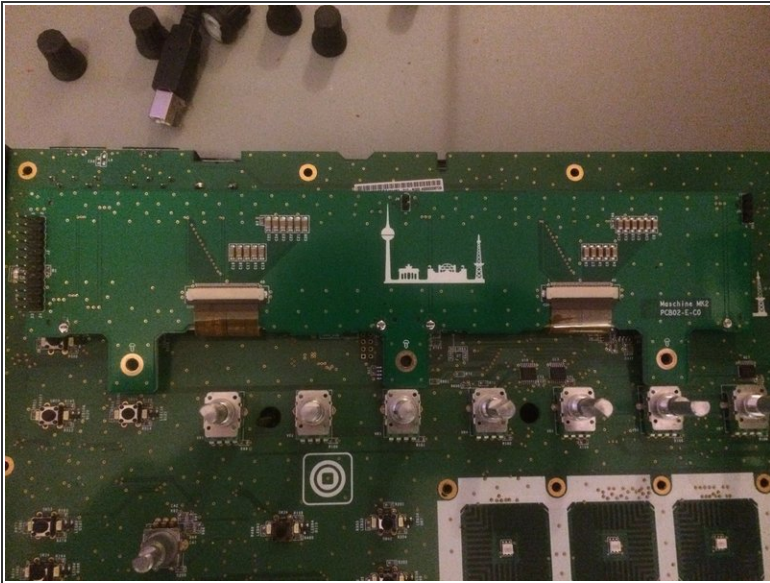
Step 4

- when you flip the device over you can remove the bottom, just gently lift it straight up.

- first remove all screws marked in yellow. put them in a bag or box, so you don't lose them.

- to fix the display issue, you won't need to remove the whole PCB!

- Remove the screws marked in orange and put them in a bag or box

- the issue with the displays is caused by the main PCB lowering slightly when you hit the pads. They display is fixed too tightly to the front panel.
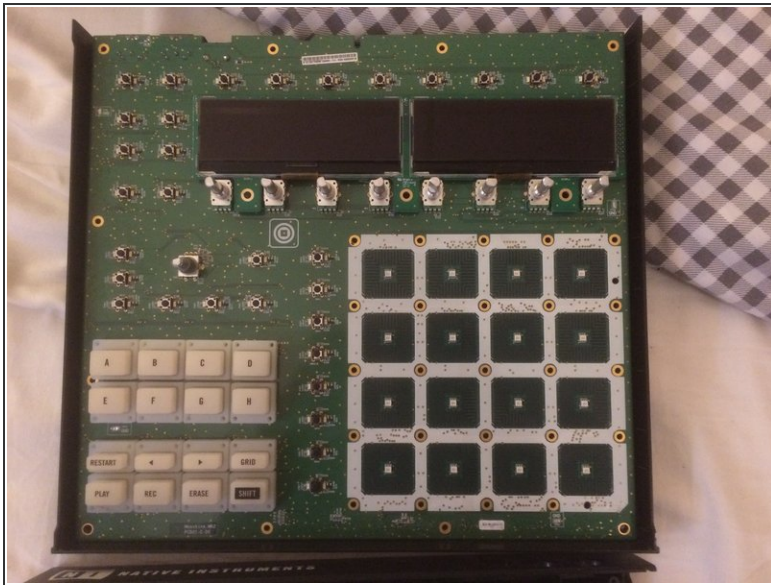
- Lift the pcb straight off the frontpanel.
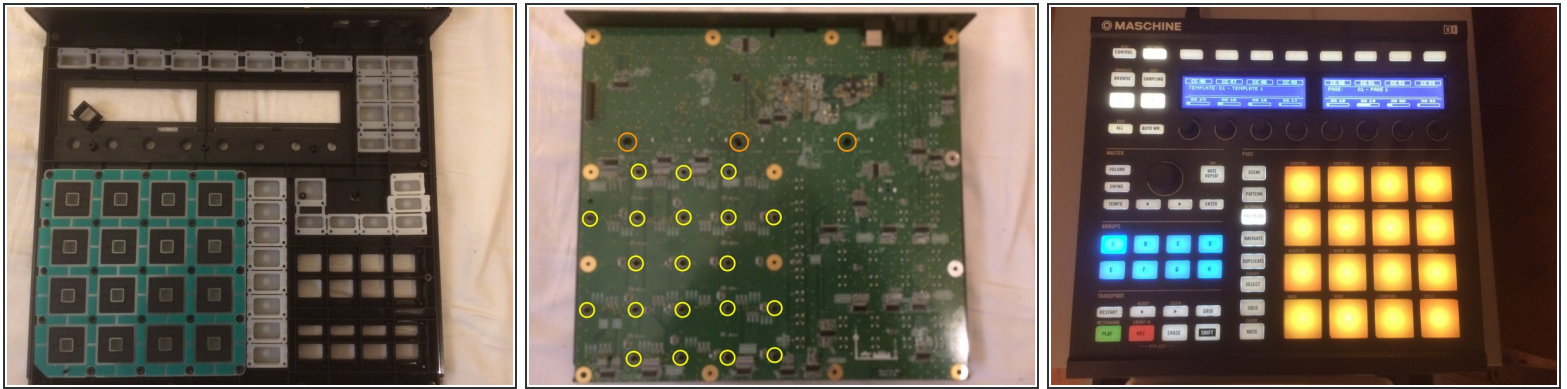
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Step 5

- this is the backside of the display unit.

- it connects with the main PCB using a push-through connection. They should have used longer pins, conductive springs for this instead.

Step 6

- I put it in the bottom panel, so I could test if the issue persisted on the PCB. I also inspected the PCB for oxidation to make sure it wasn't water damage, since I got it second hand.

- After plugging in the device, and fiddling with the display connection to the right it turned out to be functioning properly, but looked broken due to a design flaw.

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Step 7

- after fixing the connection I layed out my front panel. Note the USB fixing bracket on the left display, this should be attached to the PCB before putting it back in it's place

- After putting back the PCB, tighten the screws marked in yellow. These should be fixed. Don't overtighten them, but they should keep the pcb in it's place.

- it's VERY IMPORTANT you don't overtighten the screws marked in orange. These fix the displays to the front panel, but also pull up the displays, causing them to disconnect. They do not serve any purpuse for grounding the PCB, so you can leave a bit of clearance.

- you can test it first, which I'd recommend. If it now functions properly put the bottom of the housing back on, tightening the screws from step 3. Again, do not overtighten, as the housing is made of plastic which can crack from excessive stress.

Nice, it works. No need for expensive servicing!