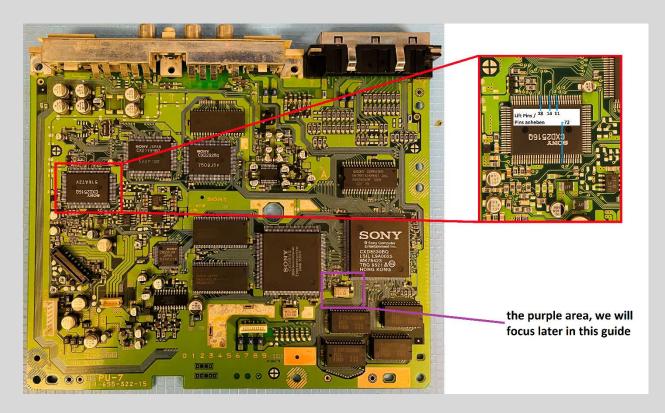


xStation ODE installation guide for PU-7 Playstation 1 motherboards

PU-7 mainboards can be found in:

- Japanese release consoles SCPH-1000 and SCPH-3000
- 1. You have to disassemble the Playstation 1 completely to get to the mainboard. PLEASE REMOVE ALL CABLES FROM THE POWER SUPPLY. MAKE SURE THAT THE POWER CORD IS DISCONNECTED!
- 2. Search for a 100 pin IC is labeled CXD2516Q. You will find it in the upper left corner. See picture below



(Remember the purple area as well. We will get to it later in this guide. For now we'll focus on the red area.)

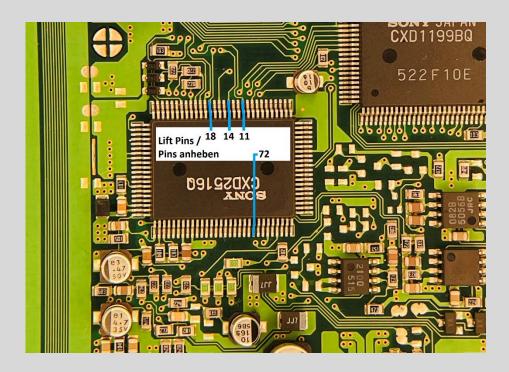




3. Find the chip labeled CXD2516Q as shown in the picture. Please make sure it has this name on it, otherwise this guide does not apply. It needs to have the following pins lifted:

11, 14, 18 and 72.

Please make sure that only the shown pins are lifted.



4. Please be careful not to damage the mainboard when lifting pins. Use a needle or x-acto knife and a fine soldering tip to simply touch the pin and apply some heat, then gently lift it from underneath using the needle or blade.



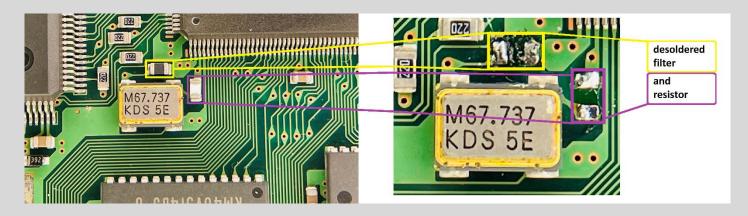




5. Please make sure that you have lifted the pins completely. They should not have contact with the motherboard, nor with each other.



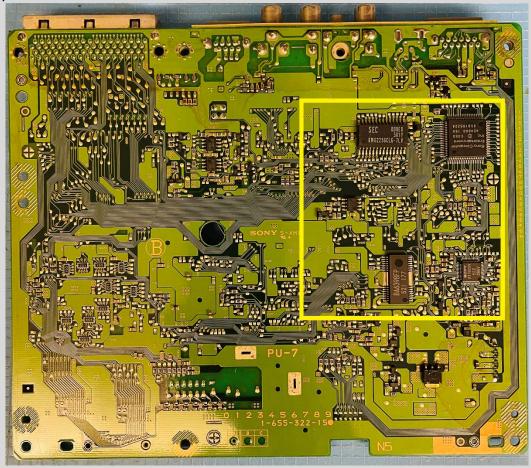
6. Now we'll get to the purple area on the mainboard top side. In this area you can see the 67mhz oscillator. You need to desolder/remove the small resistor and the filter. They are marked in the picture below.



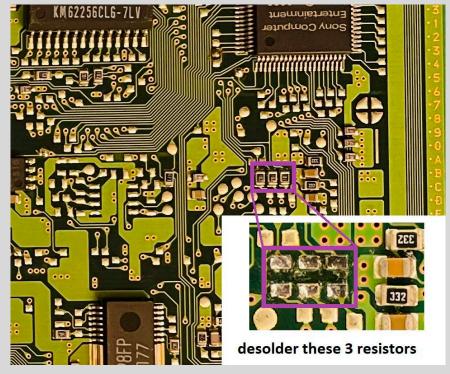




We are now finished with the top side of the mainboard; turn it bottom side up. Here, 3 resistors have to be desoldered and then the Quick Solder Board (QSB) installed.



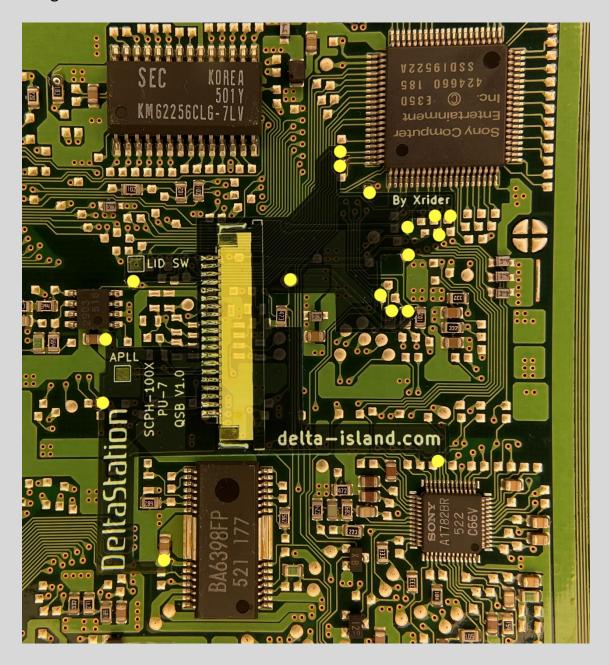
7. First we need to desolder the 3 resistors as shown







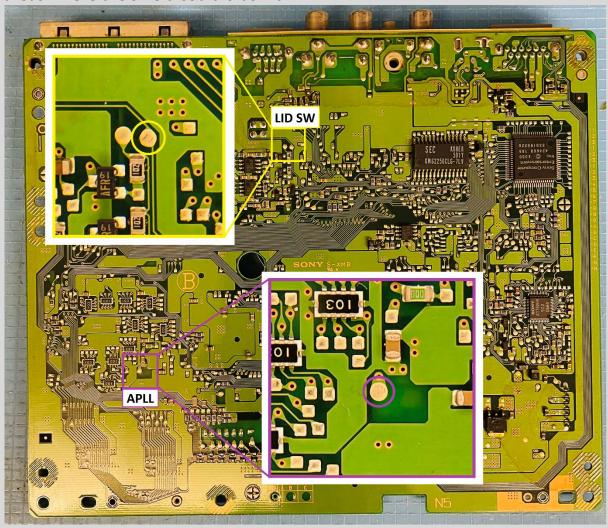
8. Place the QSB on the mainboard as shown, the yellow markings help with the alignment.







9. Connect the APLL (violet) and LID SW (yellow) pad from the QSB to the marked location. Please ensure that the cable does not run over the metal areas where the shield could crush it.

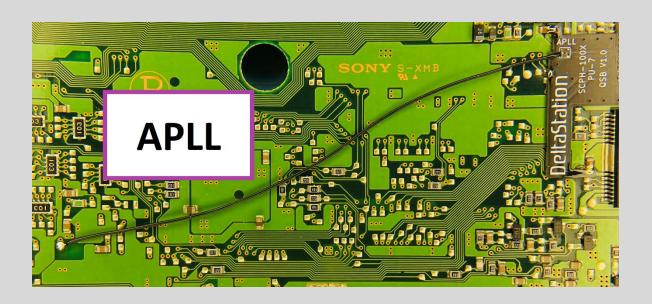


It should look like this:



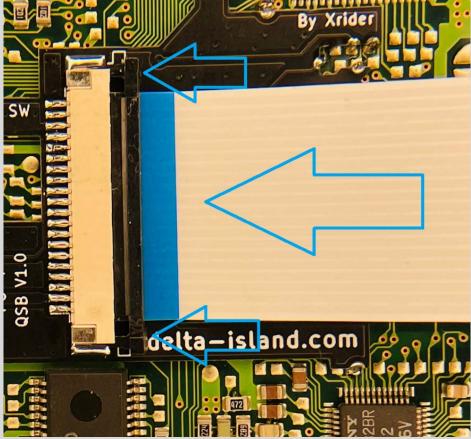






10. The difficult part is now finished, connect the flex cable to the cable holder

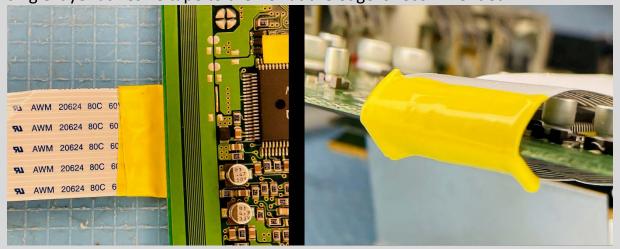
on the QSB (blue side up) and close the cable holder.







11. When this is done you can lead the flex cable to the top side. Attaching a single layer adhesive tape to the flex at the edge is recommended.



Next you can fold the flex like this. Make sure that the cable does not slip out of place. Route the flex cable through the hole and carefully apply back the top shield.

These steps are necessary to prevent the flex cable from pinching and taking damage during installation.

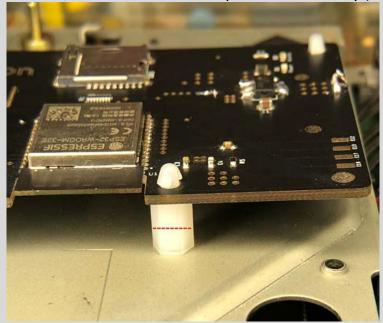




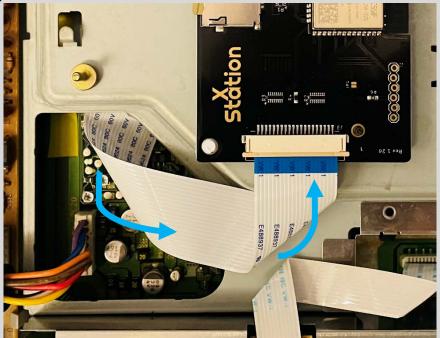


- 12. Prepare the PCB and push all 3 spacers into the xStation board. If you look at it from above they can be found in:
- the lower middle (right next to the ESP32)
- the upper right corner
- the upper left corner.

(The spacers are a bit too long for installation in a PU-7. We recommend that you shorten them a bit, so that the xStation pcb rests securely.)



13. Now grab the other side from the flex cable and carefully connect it to the cable holder on the xStation. When it is done you have to fold the flex cable a bit. Folding it like this is best:







14. Mount the xStation on the posts of the original Disc Drive. It should look like this:



When everything is ready, you have to reassemble the Playstation 1 in reverse order.

A freshly installed xStation:



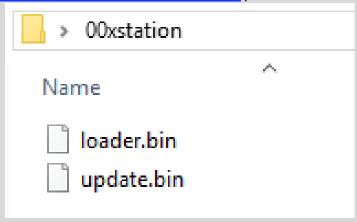




Initial Software Steps

- 1. Format a microSD card to either exFAT or FAT32.
- 2. Create a folder on your microSD card named "00xstation" (without quotation marks), then download the latest update files and copy the files **update.bin** and **loader.bin** to the 00xstation folder.

(<u>https://github.com/x-station/xstation-releases</u>)



From now on, your Playstation will boot right into the xStation loader!



