



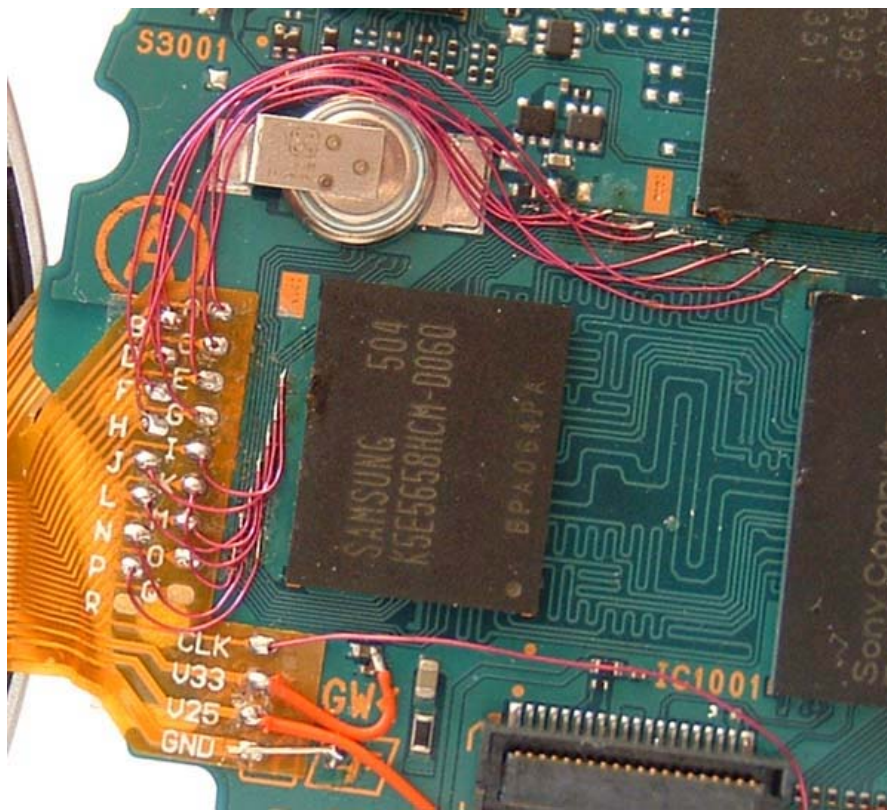
## **Installation Guidelines**

### **Precautions**

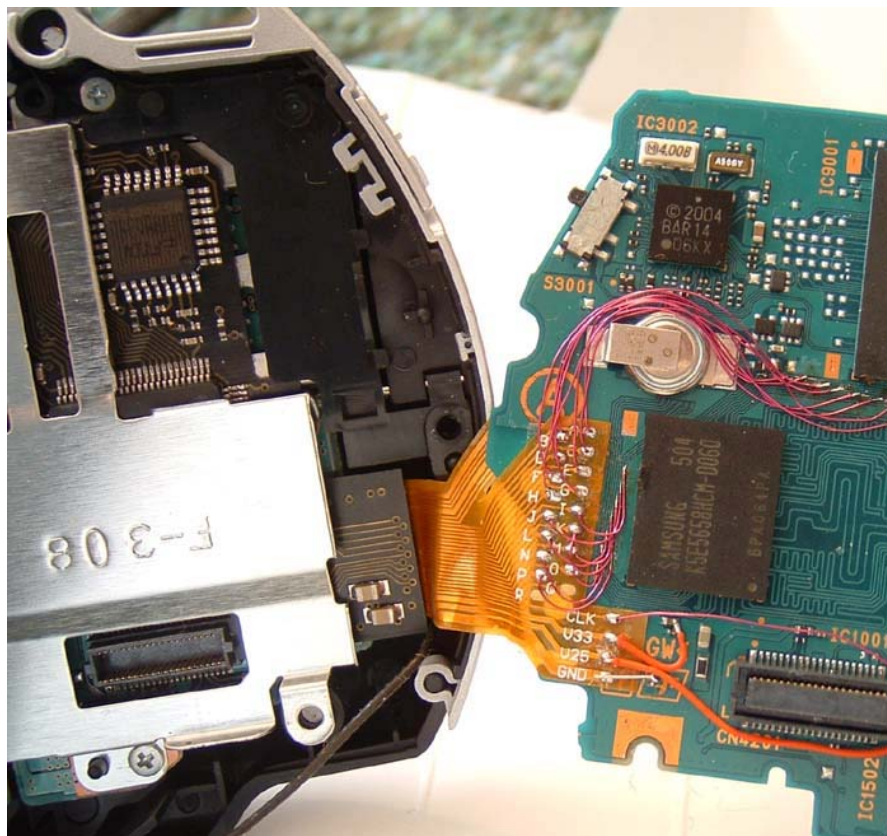
1. Installation is for skilled professionals ONLY and should not be attempted by amateurs.
2. Removal of the soldermask is the most difficult and hazardous part of the installation and requires the most patience.
3. The PSP motherboard contains highly condensed traces and components which means a visual aid such as a microscope or magnifying glass will be required. We recommend the use of a video or optical microscope.

### **Guidelines**

1. The stencils are used to assist with the process of removing the soldermask from the motherboard PCB. This is done by first fixing the stencil in place (as shown by the installation diagrams) and then scratching the soldermask off the PCB with a sharp tool using the edge of the stencil as a guide. This is the most hazardous part of the installation since it is possible to cause permanent damage to the PCB traces during this procedure. Great care must be taken not to apply too much pressure whilst removing the soldermask, otherwise the traces can be damaged or even severed. Secure the stencil in place with hot glue. First position the stencil, then apply hot glue to hold it in place temporarily. Take care not to place glue over any surface mount components otherwise they may be damaged when the glue is removed.
2. Using a sharp tool such as a utility knife and the stencil as a guide, cut the PCB trace as indicated by the yellow spot on the installation diagram. Take care not to damage any of the adjacent traces! To verify that the trace has been severed perform a continuity test between points P and J as shown in the installation diagram. If the PCB trace has been severed the continuity test should fail.
3. Once the soldermask has been removed and the trace cut, carefully remove the hot glue and then the stencil.
4. Affix the FPC cable in place (as shown by the installation diagrams) using glue or double sided tape.
5. Using a low power soldering iron with a very fine tip, solder wires from points shown in the installation diagrams to their corresponding points on the FPC cable. Use the supplied copper enamel wire for all points except V33, V25 and GND where 30AWG Kynar should be used. If the soldermask has been removed properly using the guides there should not be any adjacent traces exposed in the same area of the PCB. This means it will be safe to use generous amounts of solder without shorting adjacent traces which should ensure a good solid connection between the wire and PCB and provide a decent degree of shock resistance to the install. Below is a completed reference installation:



6. Verify that no short circuits exist between the adjacent soldering points by performing continuity checks with a multi-meter (0 Ohm indicates a short circuit). You can use the FPC points rather than the soldering points on the motherboard to simplify this process.
7. Connect the Undiluted Platinum PCB to the FPC via the connector on the underside of the UP PCB.
8. Insulate the UP PCB using some thin tape, which will eliminate the possibility of a short circuit with the memory stick daughterboard.
9. Carefully place the UP PCB in between the memory stick daughterboard and metal shielding as shown below. Secure the metal shielding, whilst being careful not to place too much pressure on the PSP motherboard. Excess pressure may cause the FPC cable to come loose from the connector on the UP PCB.



10. Bring the PSP motherboard into position and press down to connect it to the memory stick daughterboard via the plastic connector. Depending on the PSP hardware version the FPC cable may be obstructed at this point

by the edge of the PSP case so you may be required to CAREFULLY push the FPC cable in-between the PSP motherboard and the UP PCB. Use a blunt object for this so no damage is done to the FPC cable.

11. Insert screws to secure the PSP motherboard in place with the UP PCB lodged in the correct position, then re-assemble the remaining parts of the PSP.
12. Undoubtedly, some dust will have accumulated on the LCD screen, the PSP front cover, or both. It is recommended that just before re-assembly is completed the dust is removed using a lint free cloth and compressed air.