ORIGINAL PAGE ELMB_MB_v6.5.3A_manual

3. Improvement of five drawer sense line measurements: +3VDIG, +5VDIG, -5VMB, +5VMB, +15VMB. See further ELMB_MB scheme detail on page 9, Fig.12 for more information.

(a) Cut +5VMB pcb trace from pin5 on connector J12 on the ELMB_MB bottom side, see Fig.3. The pcb trace is under the surface level, so a milling cutter has to be used.

(b) Cut two traces, between R27 and pin1 of U7 isolation amplifier, and pcb path between R27 and pin8 of opamp U13, see Fig.3, 4.

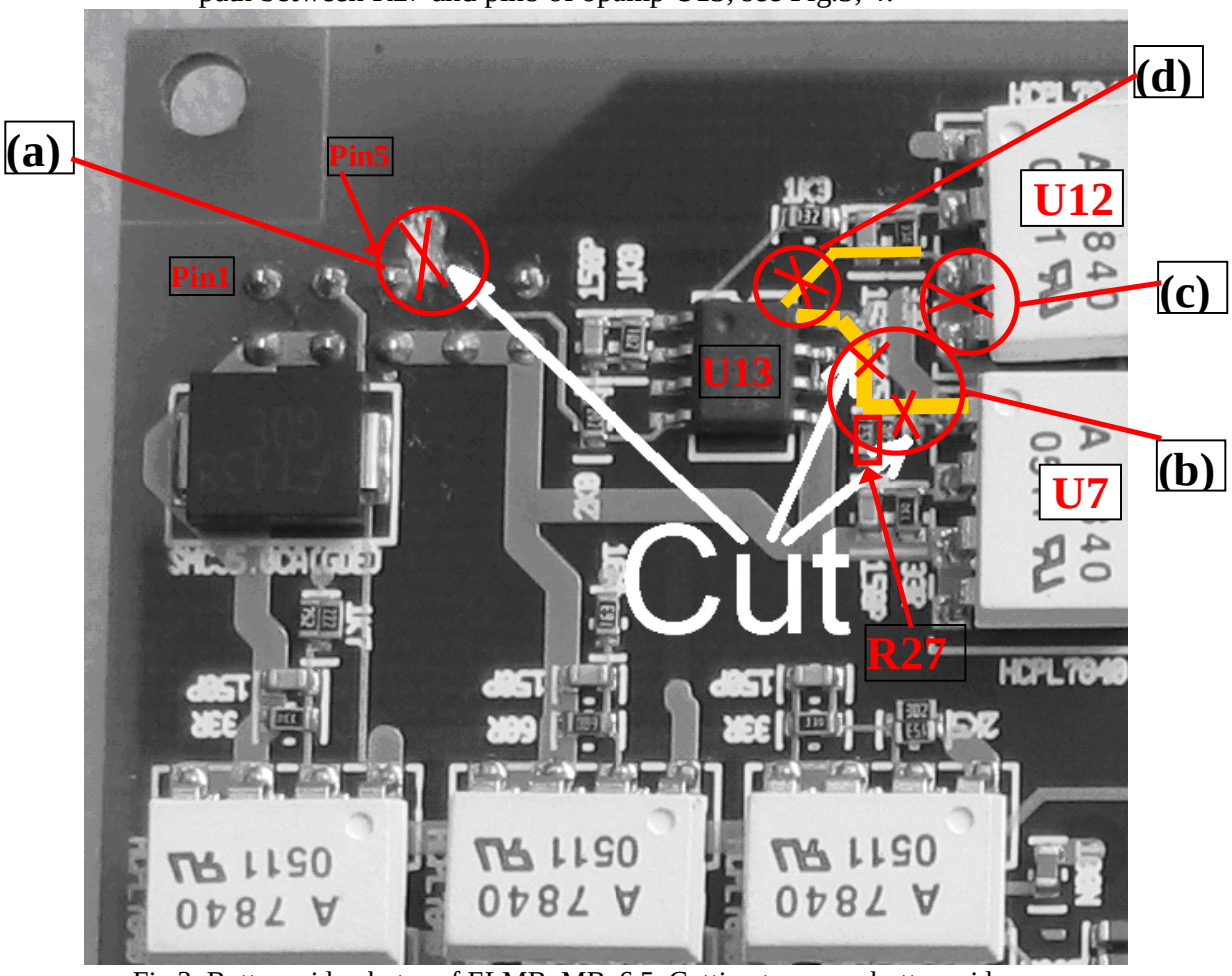


Fig.3: Bottom side photos of ELMB_MBv6.5. Cutting traces on bottom side.

(c) Cut trace between pin3 and pin4 of U12 isolation amplifier, see Fig.3, 4.

(d) Cut trace going to gnd from C22 and R38, see Fig.3, 4.

IMPORTANT NOTE 3.b.

3.(b) Cut two traces, between R27 and pin1 of U7 isolation amplifier **(3b1)**, and pcb path between R27 and pin8 of opamp U13 **(3b2**) far enough from R27, see Fig.3.

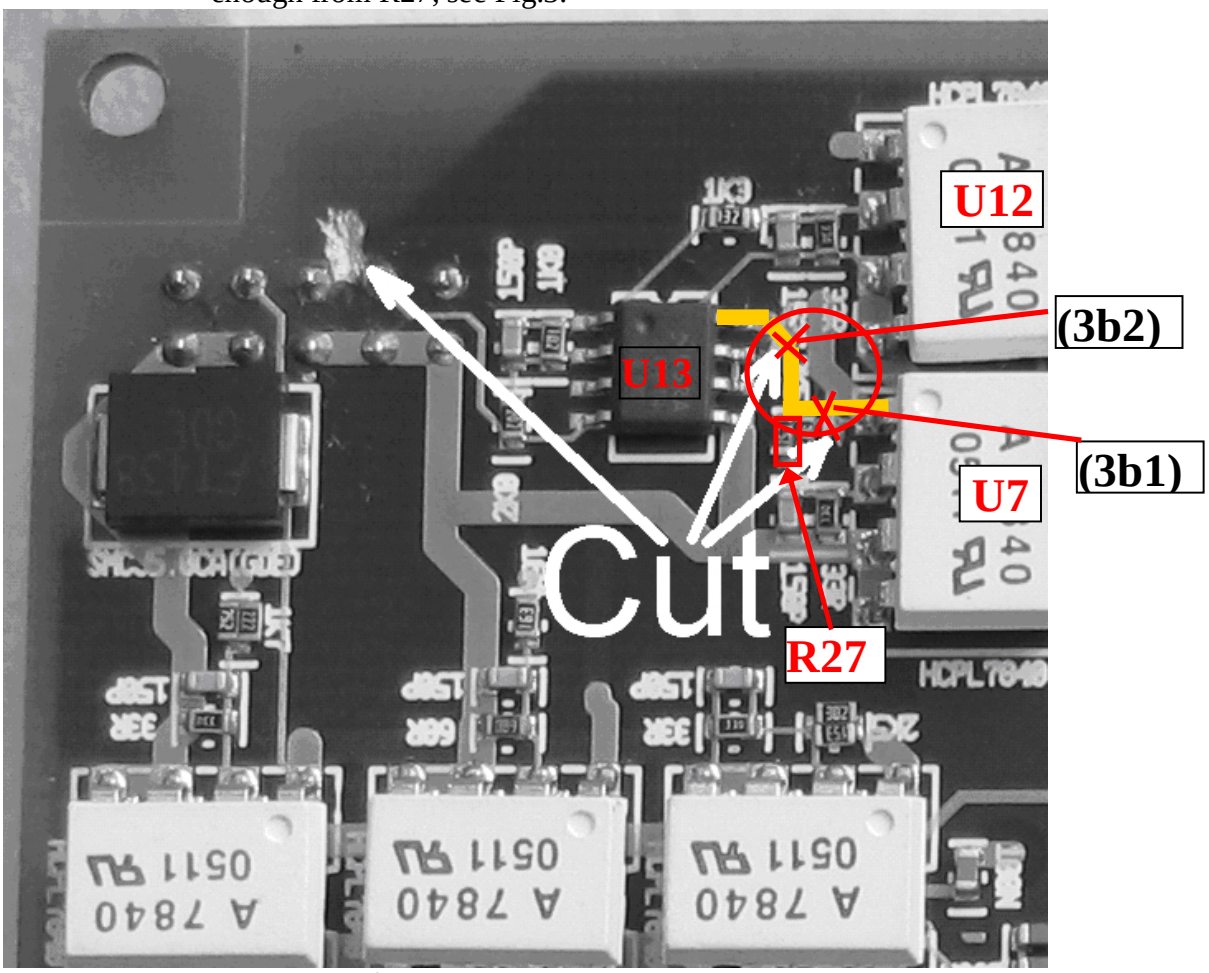
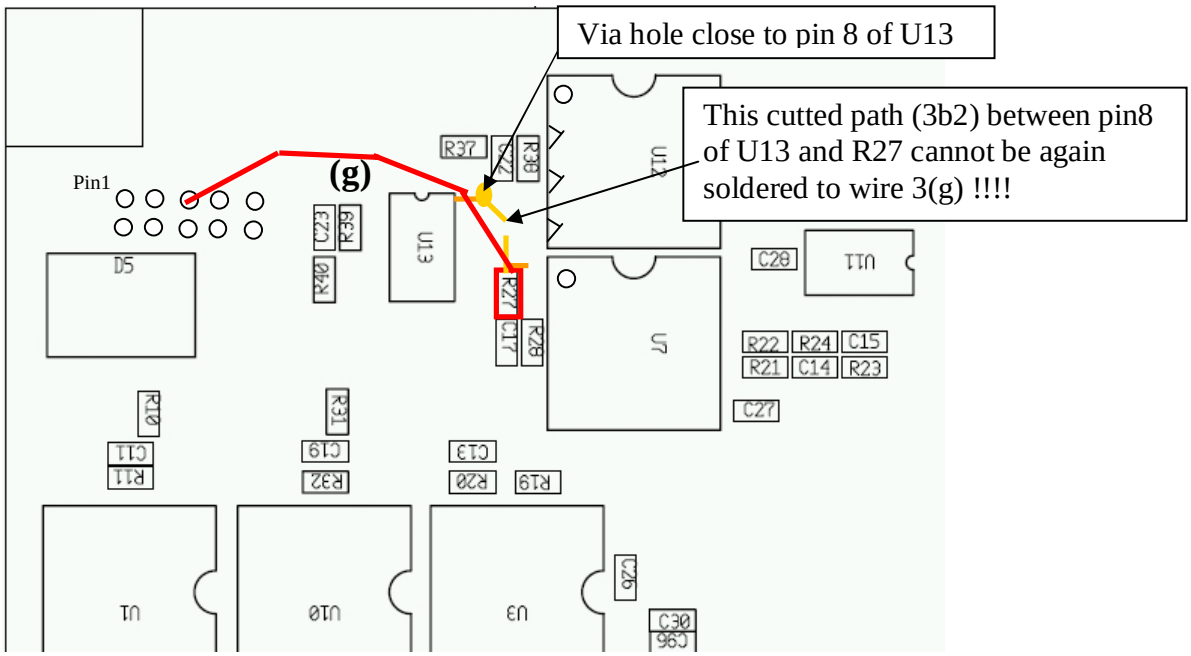


Fig.3: Bottom side photos of ELMB_MBv6.5. Cutting traces on bottom side.

We had several accidents when **(3b2)** upper cutted trace was again connected and accidentally soldered with new wire connection **3(g)** –see page 6,7- with R27 resistor.



3(g) **Wire connection – red line-** . Connect resistor R27 (part of +5VMB sense line divider) directly to pin5 of J12 connector by a 30mm piece of insulated wire.