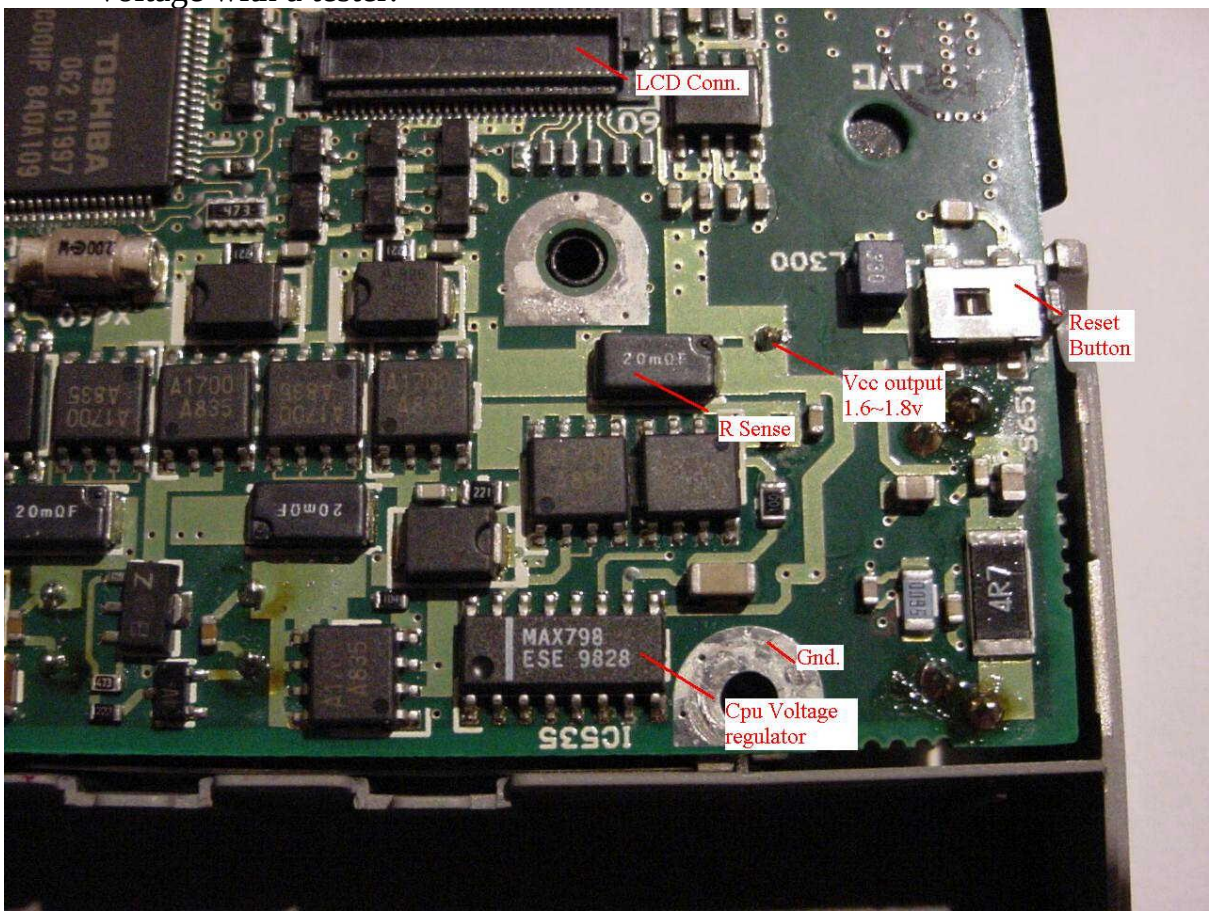
ADJUSTING CPU VOLTAGE ON 110CT

This procedure is used to adjust the internal Vcc (Typical 1.6v on my own L110**) if you have problems working at 300Mhz (75Mhz * 4).**

Intel indicates on P55C Mobile at 233Mhz specifications the voltage limits between 1.665v and 1.850v, but…on my libretto L110CT is set to 1.6v (Under Standard).
Working with bus at 66Mhz don't have problems, but setting bus at 75Mhz Windows have problems with expansion ram.

Steps to work:

1st: You need to locate the voltage controller named MAX798 near to display connector. Find the 20 mOhm Resistor close to the IC and test the output voltage with a tester.



If you have hang-ups working with windows it´s possible to adjust the voltage for more stability but if you increase the voltage increase internal heat.

2nd Adjust the output voltage from Max798:

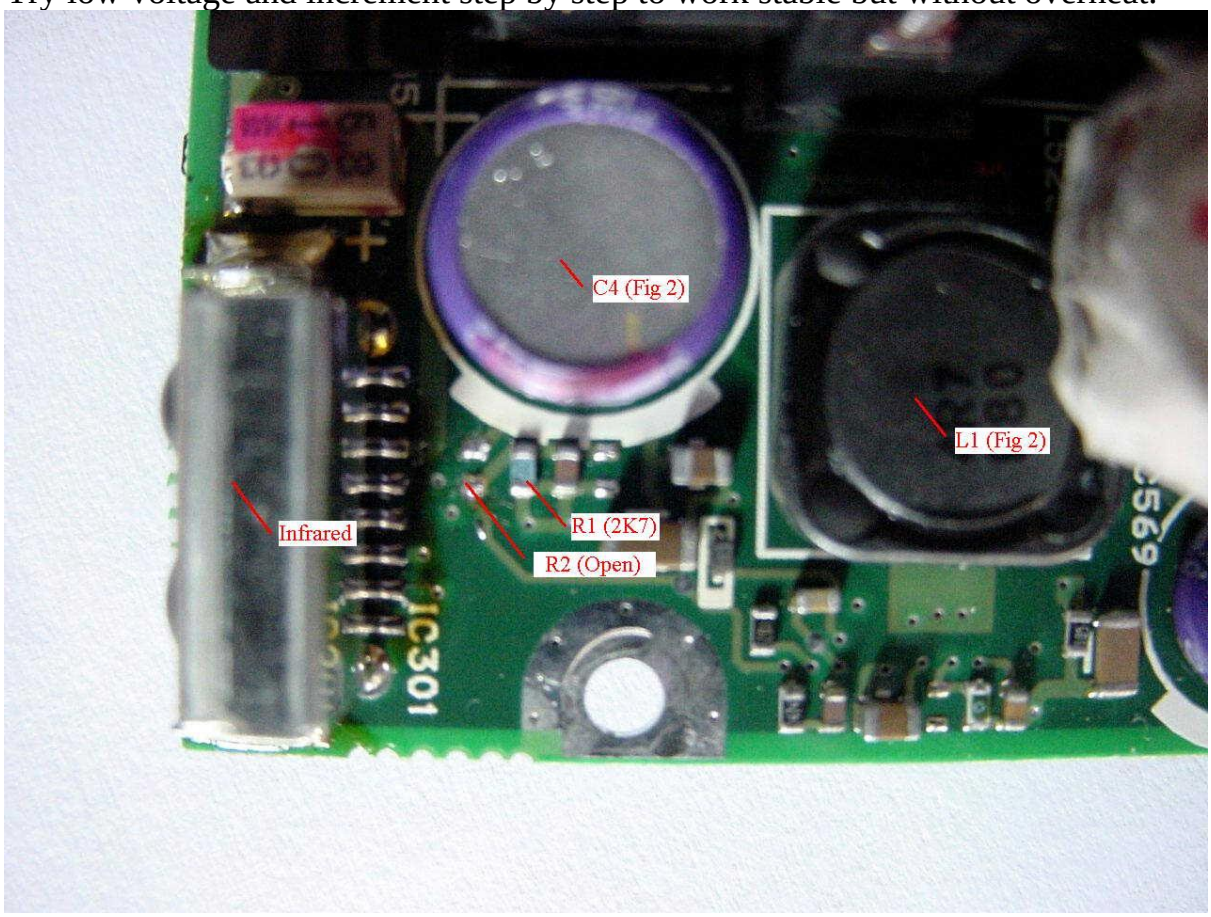
On L110CT the R1 resistor is a 2K7 and don't have R2.Without R2 the voltage output is set at 1,6v

To set more voltage you need to sold one resistor on R2 place calculating resistance to set the desired voltage.

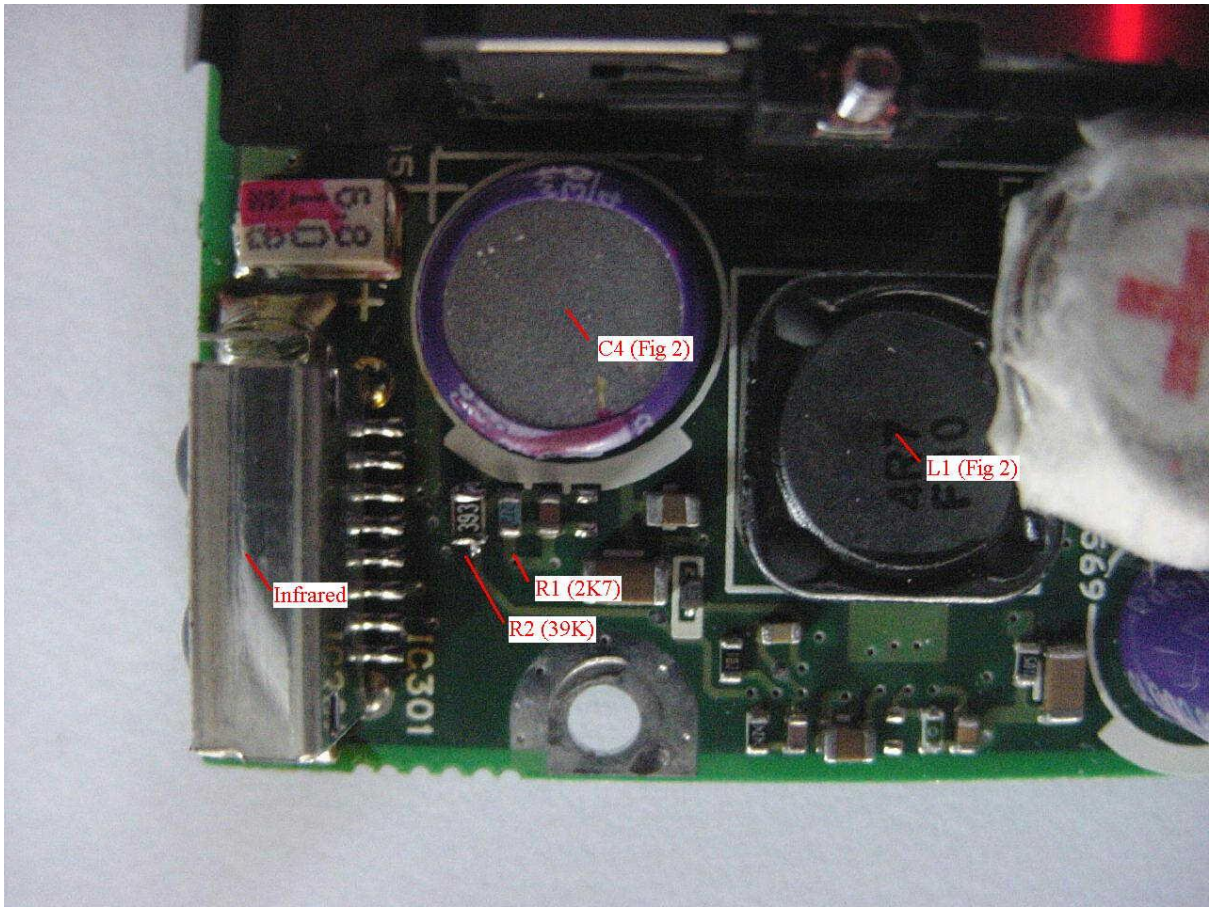
Solding a 39K resistor I take stability and a few overheat. (1,71v)

Use a formula to calculate your voltage but remember that R1 is 2K7
Examples: 14K=1,9v 20K=1,81v and 39K=1,71v

Try low voltage and increment step by step to work stable but without overheat.



R1/R2 Circuit (Without R2= 1.6v)



R1/R2 Circuit with R2 solded (39K to have 1.71v)