

Toshiba Satellite m35x, m115, HP NC6000 motherboard repair

By Igor Mateski

(imateski@gmail.com, imateski.blogspot.com)

In this text I will explain a common fault on several laptops: Toshiba Satellite m35, of Toshiba m115, HP NC6000, and other models of both HP and Toshiba, using the 48-pin Maxim1967 and the 40-pin Max1532a power drivers). The images however are from an m35 repair.

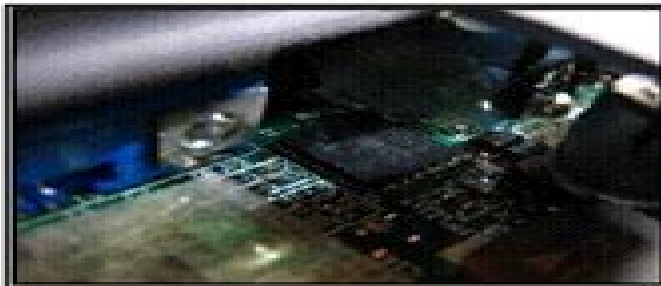
What are the common manifestations of this defect?

- The laptop does not boot,
- On power-on, the fans spin up for a few seconds, LEDs blink and everything goes dead,
- The laptop turns off even at the slightest movement of the LCD or power cord.

Toshiba's licensed service centers will tell you that the motherboard is dead and needs to be replaced. New motherboards range from \$350 up to \$500, plus installment fees.

The problem appears elegantly after the warranty expires, so there is no free service any more. Mine died after two years of faithful service. Official service centers will list buying a new motherboard as the **only** solution for this problem. However, a new motherboard is really **not** the only solution. Fixing the old motherboard is a better, faster and incomparably cheaper option. That's what you're up to, right?

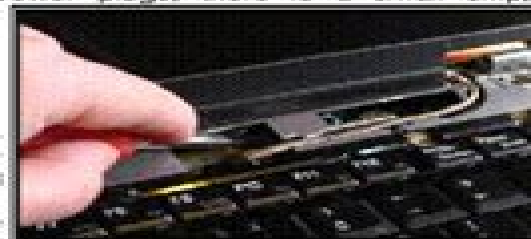
The entire process of opening up, repairing, and reassembly of the laptop will take about an hour, testing period included. With this repair, you will save the laptop AND save hundreds of dollars that you'd pay to get a used motherboard from Ebay. For this fix, you will need one Philips screwdriver, one flat screwdriver, pliers, a small sharp knife, a 25-35 watts soldering iron with a very, very fine circular tip, no larger than 2mm foothold (I used a 1mm tip), some soldering paste/flux and a digital camera.



The blue plastic part on the left of the photo is the VGA plug. Next to it, the black square is the problematic chip.

This is the MAXIM 1978 (in some cases 1532) chip, a power driver that regulates the power supply to all the components of the laptop. Place a screwdriver tip (or something made of hard plastic) on the chip, make sure you are not touching any solders. Now, apply pressure to the chip but not too much. As seen on the picture, the pressure will mostly be done by the index finger, not the wrist itself. This is to ensure that you will not damage the chip itself. Chips are firm, you can't break them so easily, but that does not mean that you should put all your power into this project. Be sensible. While pushing the chip down, press the Power button and see if there are any changes in the behavior of the laptop. If it made no signs of life before, and now you do get a spin-up, or even a startup, then you have located the problem, and you are half way to fix your laptop. Let's now continue with the second half.

In order to check if the problem is really a poor solder joint, remove the plastic bezel that is between the keyboard and the LCD. You can do this by placing a small screwdriver at the right hinge, between this bezel and the LCD. Gently lift up the bezel and then move your way toward the left end, slowly lifting the bezel up. You can do this without any tools, so that you make sure you don't scratch anything. Once the bezel is removed, notice that at the right half of the laptop, between the VGA and the power plugs, there is a small chip, 10x10mm.



To test the motherboard, apply pressure to the chip, but be careful. Chips are hard, but still breakable.

M35x Motherboard Repair Manual

Lauren Gardner



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