

# Team 7700B Texas Instrument Electronics Online Challenge: Sony Laptop

For our Texas Instrument Online Challenge, we decided to take apart our Sony Laptop. The Reason why we chose the Sony Laptop is because most laptops have a Texas Instrument chip. We originally tried to take apart a camera but sadly we could not find a TI chip in it. Most of the electronics we knew had a Texas Instrument in them But they were all working. So we decided to change our plan. We decided to take apart an electronic that is partially working, and fix the part it's having difficulty with or is not working at all. We ended up with a Sony Laptop.

Since our Sony Laptop is very old, we saw the main board of the laptop (Fig. 1) right when we took the bottom cover off. We also found three Texas Instrument Components. We realized that each part has different number and letters. It was called the part number. The first Texas Instrument that we found had a part number: TPA6017. We thought that there was a code of some sort that Texas Instrument uses as a part number. So we tried to "decode" the number letter code. We found that the chip is used in audio speakers. It helps you to decode the code and turn it into audio. The second and third chip (2062) (Fig. 2&3) is used in preventing short circuits in a power distribution scenario.

We learned a lot in taking apart this computer. We found many chips inside the computer even if they all weren't TI components. We learned a lot about how computers are built as we did this project. We did not know how many different chips were used for different purposes.

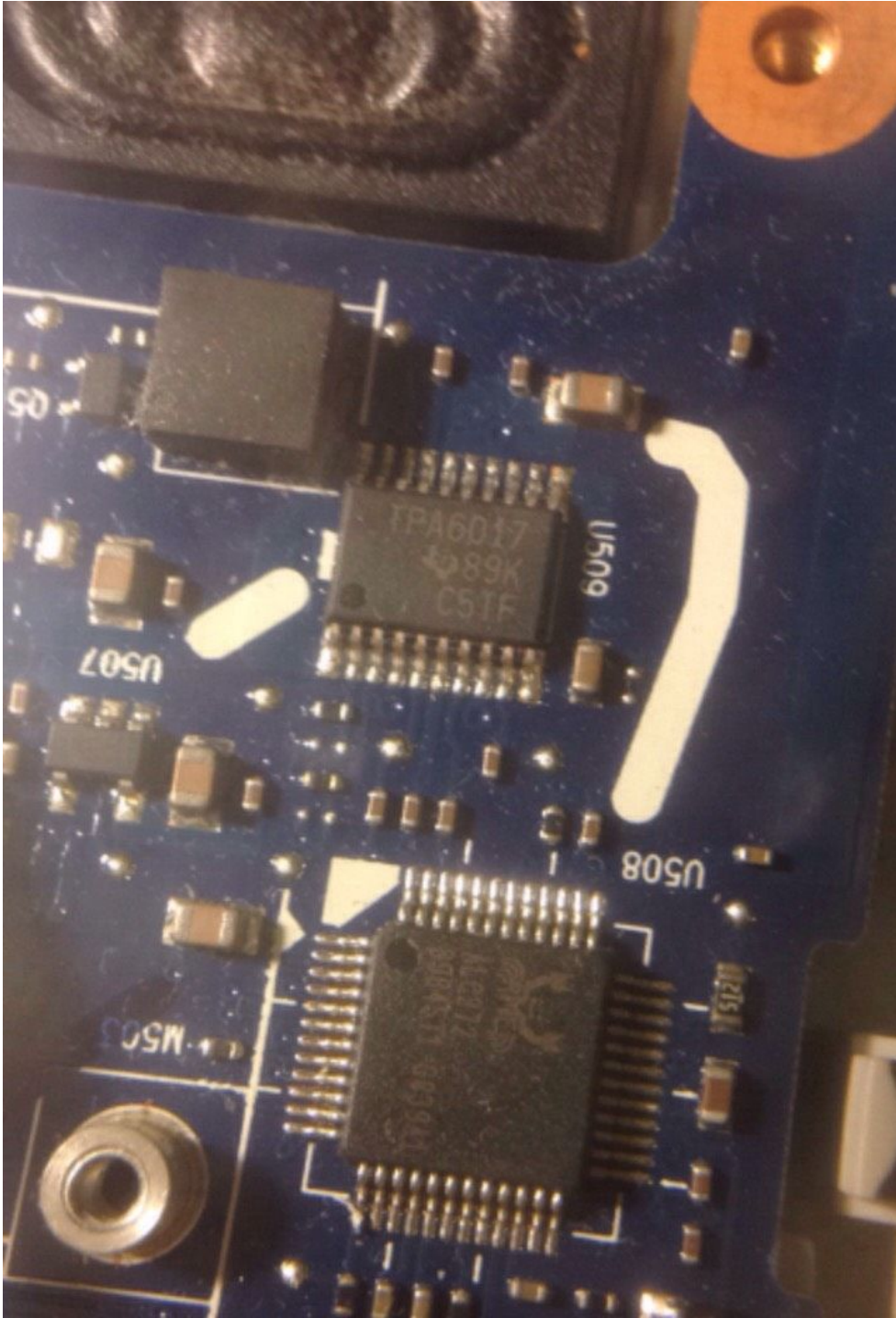


Fig. 1

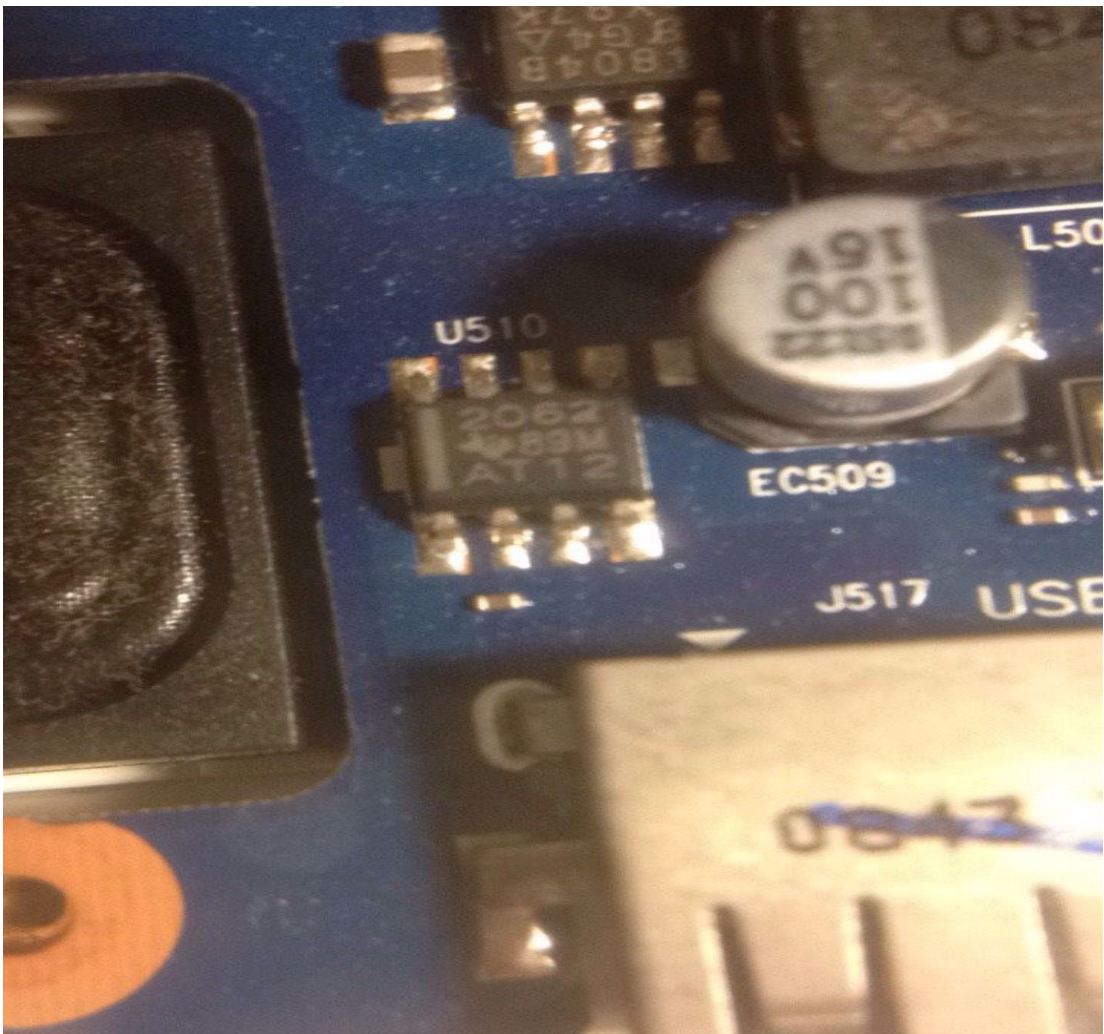


Fig. 2

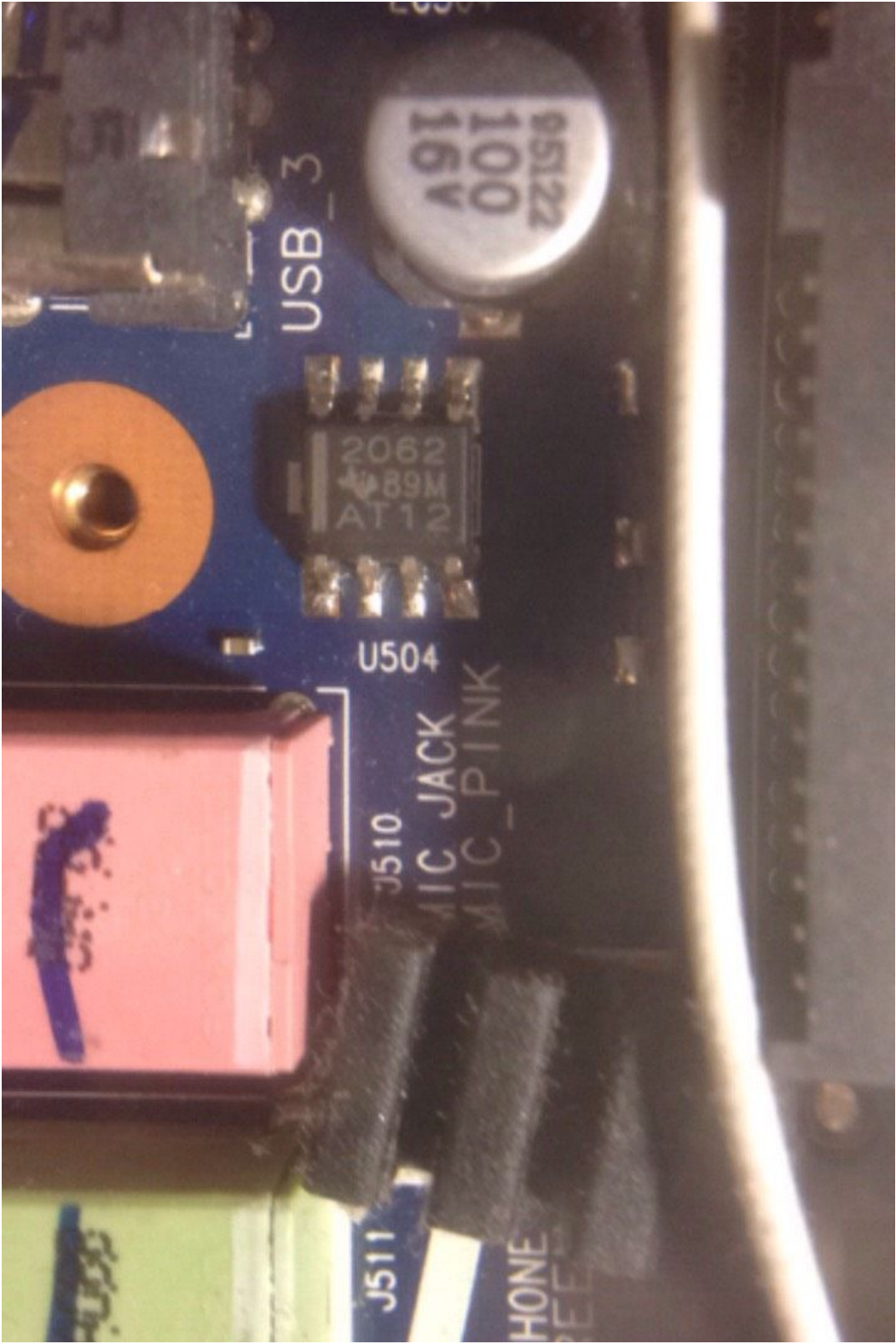


Fig. 3