

Mazda CX-5

Installation instructions for the upgrade of windows LEDs. **Attention!**

All details have been made to the best of my knowledge. I take no responsibility for damage during installation, or use of this manual! This is a description of how I did the installation!

Enjoy rebuild 19Andi73.

What you need:

1x SMD- resistance 1Kohm.

<http://www.conrad.de/ce/de/product/433062/Dickschicht-Widerstand-1-k-SMD-0603-01-W-Samsung-Electro-Mechanics-RC1608F1001CS-RC1608F102CS-1-St>

1x SMD- resistance 1,3Kohm.

<http://www.conrad.de/ce/de/product/433642/Dickschicht-Widerstand-13-k-SMD-1206-025-W-Samsung-Electro-Mechanics-RC3216F1301CS-RC3216F132CS-1-St>

1x SMD- resistance 2,7Kohm.

<http://www.conrad.de/ce/de/product/435237/Dickschicht-Widerstand-27-k-SMD-1206-025-W-Samsung-Electro-Mechanics-RC3216F2701CS-RC3216F272CS-1-St>

4x SMD-LEDs in White (or equivalent in another color).

<http://www.conrad.de/ce/de/product/180479/Standard-Chip-LED-06-mm-Hoehe-im-0603-Gehaeuse-Avago-Technologies-HSMW-C191-Weiss-140-Lichtstaerke-IV-200-mcd-Durchlass?queryFromSuggest=true>

A soldering iron with solder, for example :

http://www.ebay.de/itm/Profi-Lotstation-Lotkolben-58-Watt-mit-Spitzen-Set-regelbar-150-450-C-/160859541015?pt=DE_Haus_Garten_Heimwerker_Elektrowerkzeuge&hash=item2573f9ce17

Depending on a small Phillips and flat screwdriver.

Furthermore, I have such a "special tool" from a pipe clamp tinkered to expand the window block.



And so I did it:

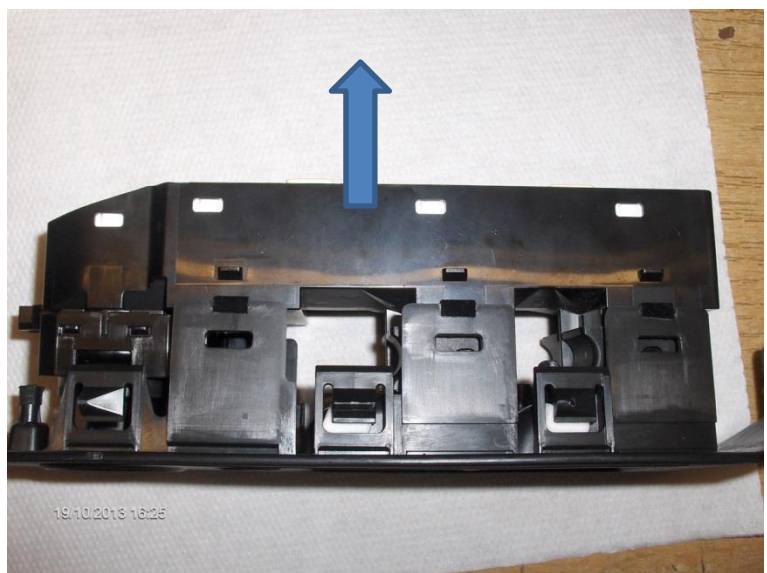
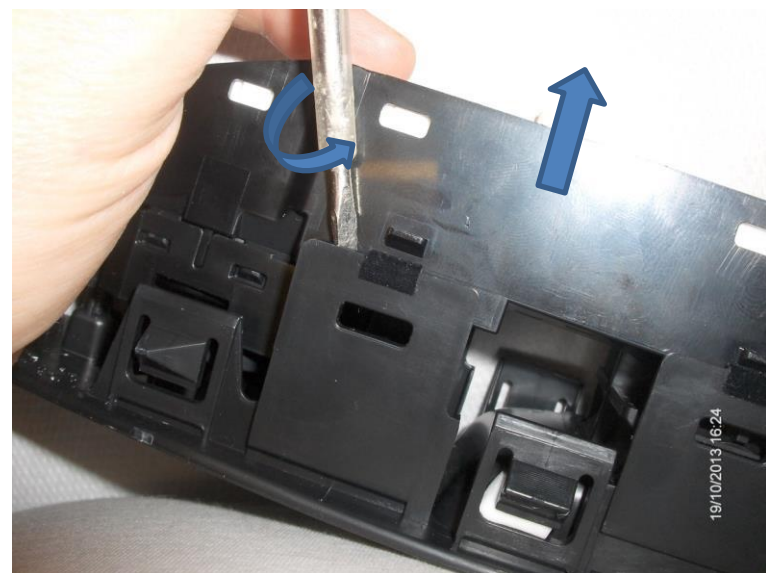
First I removed the block to remove the rubber insert.



Then, the block from the bottom pulled out with the special tool top-left.



Taken the block from the mounting frame

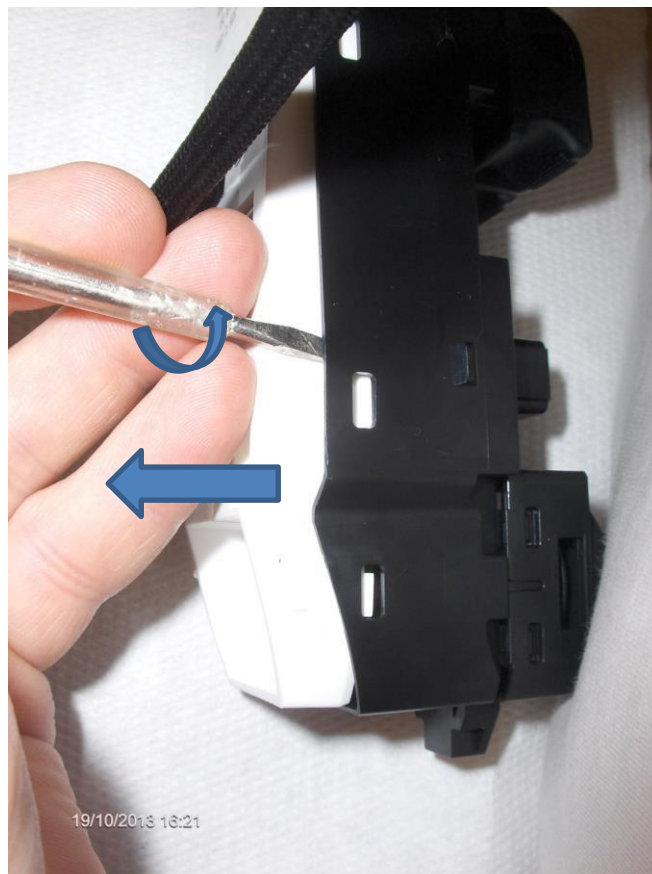


The button is simply removed upwards

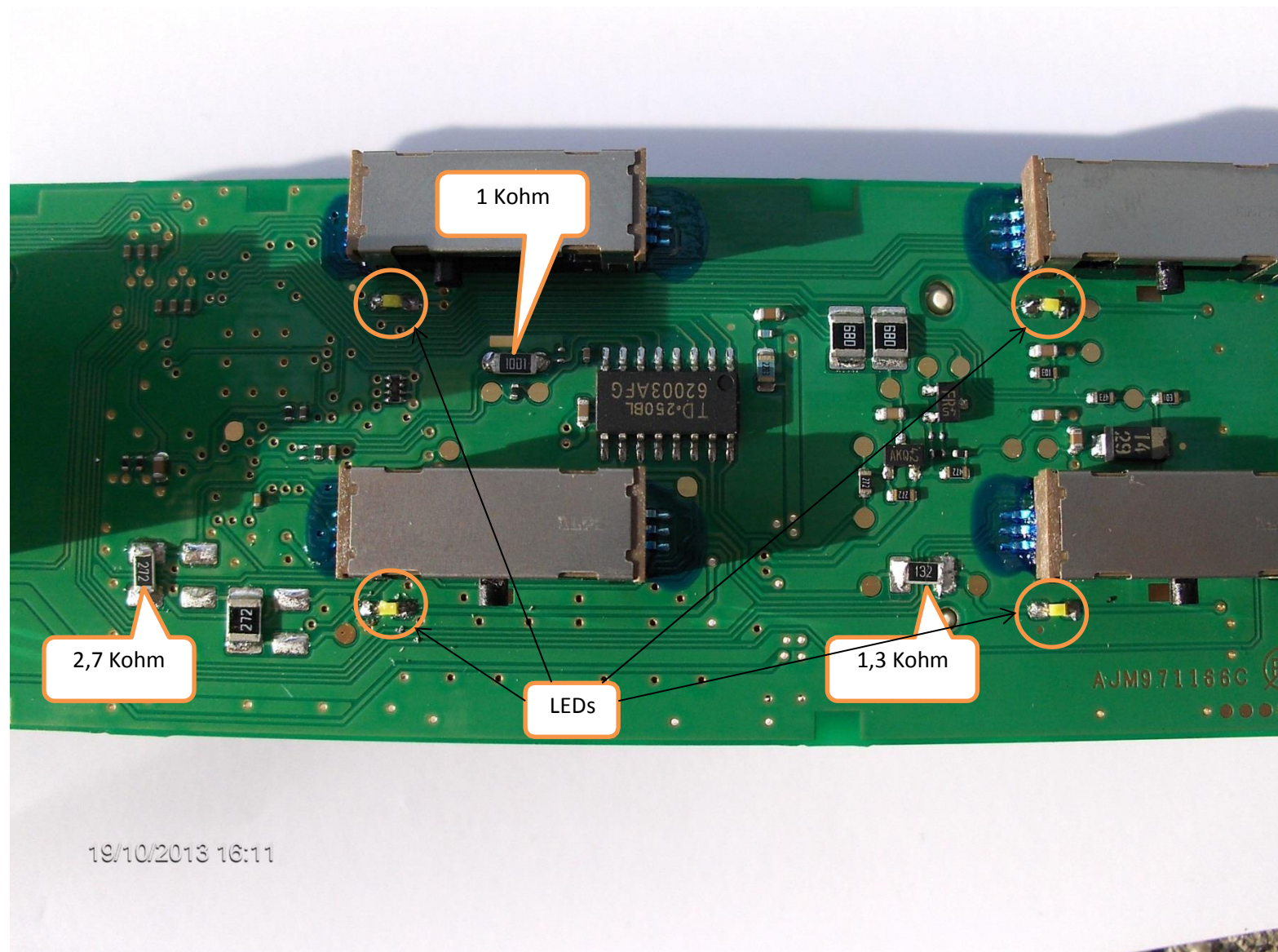


In the white cover are 2 screws that one turns out. Then you take out the cover from the block.

Caution: small parts!!



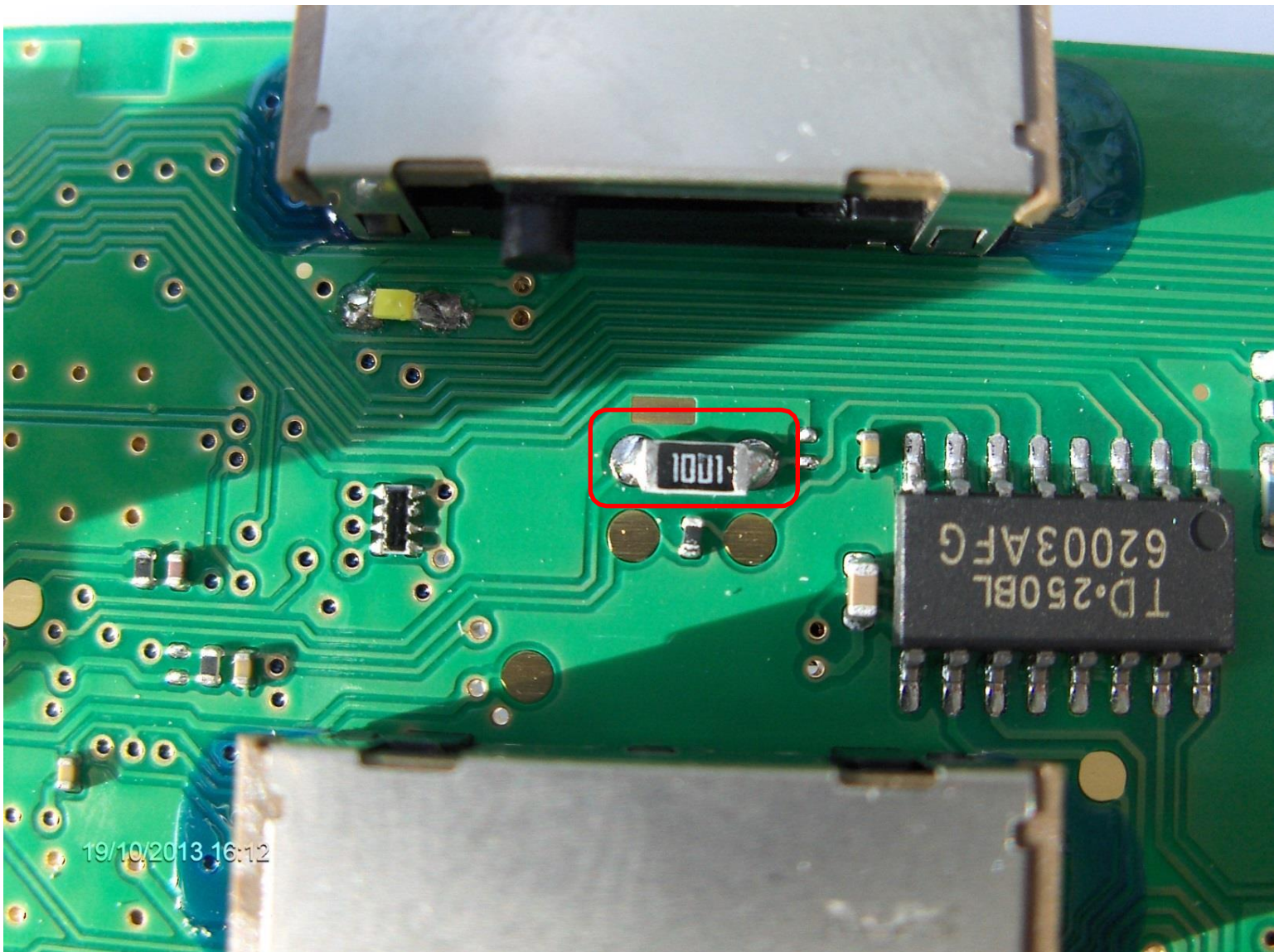
The board and take out the resistors and LEDs soldered.



My colleague had problems with the solder resistance of 1Kohm I brought, which was too small for him. He could not believe it. He then found in the larger and cross-soldered

Attention!!

In this procedure, you should make sure that you produce a short circuit. After the resistors soldered please be sure to measure.



How do I solder a LED?

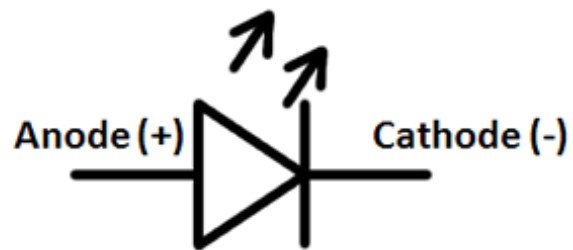
If you anlötet the wrong LEDs do not light the because the current flows only in one direction. Therefore, it is important to solder the LEDs correctly to not make them again later gone to. This can damage the LEDs under certain circumstances.

And so it is done.

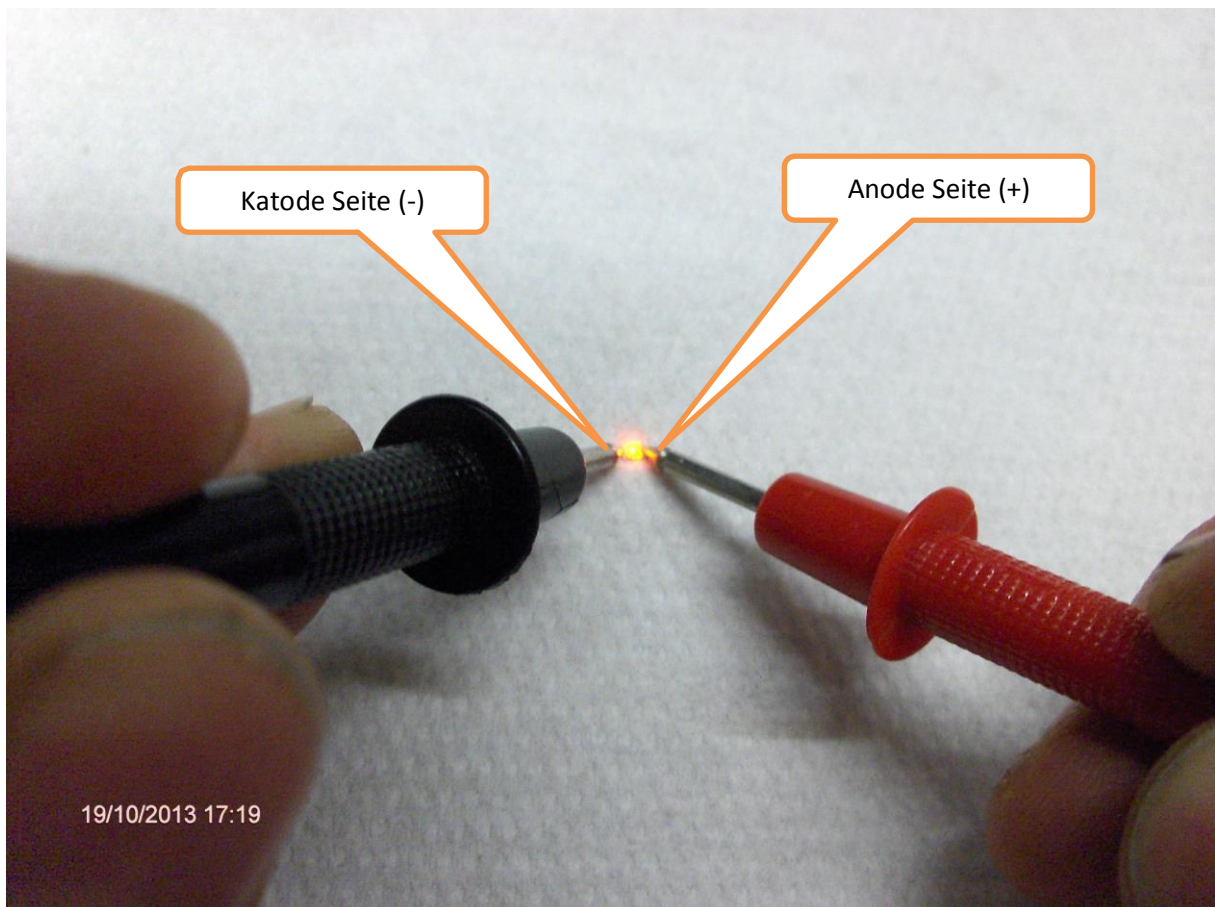
The switch of the multimeter to make this position to measure the LEDs.



So an LED looks icon.

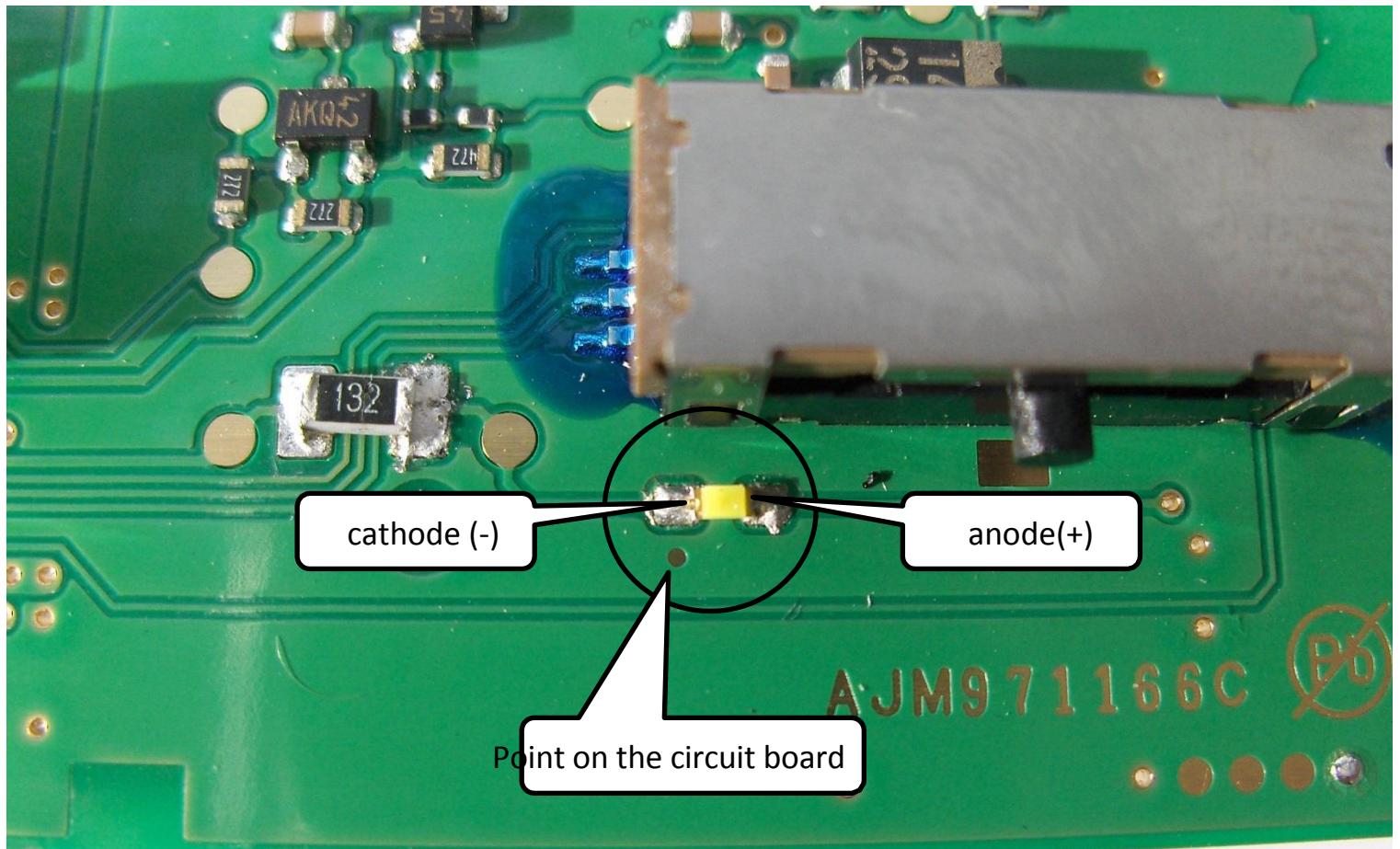


How we measure the LEDs.



If LED is not lit, you simply rotate it 180 degrees and measure again. LED must light up, then it looks like in the photo. Now one keeps in mind where the side of the cathode (-) is. This is important.

On the board at the location where the LEDs are soldered, is located on the side of a dot. It uses LED as did the cathode (-) in the direction of Point shows (see photo). On the board, at the point where the LEDs are soldered, is located on the side of a point. It uses LED so that the cathode (-) in the direction of Point shows (see photo).



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If everything is soldered, you can connect the board on a trial basis to the vehicle. Ignition on. And it should look like with me on the photo.



If it worked and the LEDs light up, the whole is built back together in reverse order.

PS: If the knob for the switch off of the power windows is pressed, only one LED and although the driver's lights, all others go out.

A good luck to you all. Greeting 19Andi73

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