



Kit available on [ledperf.com](http://ledperf.com)

## Eliminate the residual current following the replacement of bulbs by leds

### The symptoms of this problem:

Following the replacement of your bulbs by leds (ceiling light, plate etc...), you can notice on certain vehicles that the leds remain slightly lit even when the car is closed.

### The causes:

A very weak current flows in the vehicle, even when the car is closed: this is the residual current. Since the bulbs require a 12V current to operate, they did not light up with the residual current. However, as the consumption of the leds is very low, they light up slightly because of the residual current.

### The solution:

Put a resistor in parallel of your led so that it picks up the residual current. The placement is done in 5 minutes.

### Resistors available here :

[http://www.ledperf.com/product\\_info.php?cPath=30\\_132roducts\\_id=361](http://www.ledperf.com/product_info.php?cPath=30_132roducts_id=361)

### Important :

The aim of this solution is purely aesthetic. If you don't mind the light lighting, you can leave this residual current without any risk to your battery.

Please note that during installation, it is advisable to disconnect the fuse from the element on which you place the resistor, to avoid a short circuit and therefore a fuse change.

**Example of the installation of a resistor :**

This is a ceiling light in which we removed the original shuttle light bulb:



Here is the result once the led is in place:



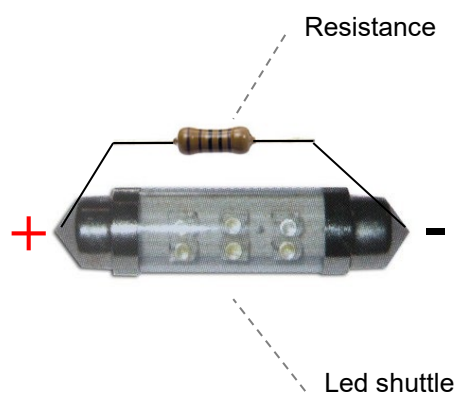
**Problem :** Same car closed, the led stays very slightly lit:



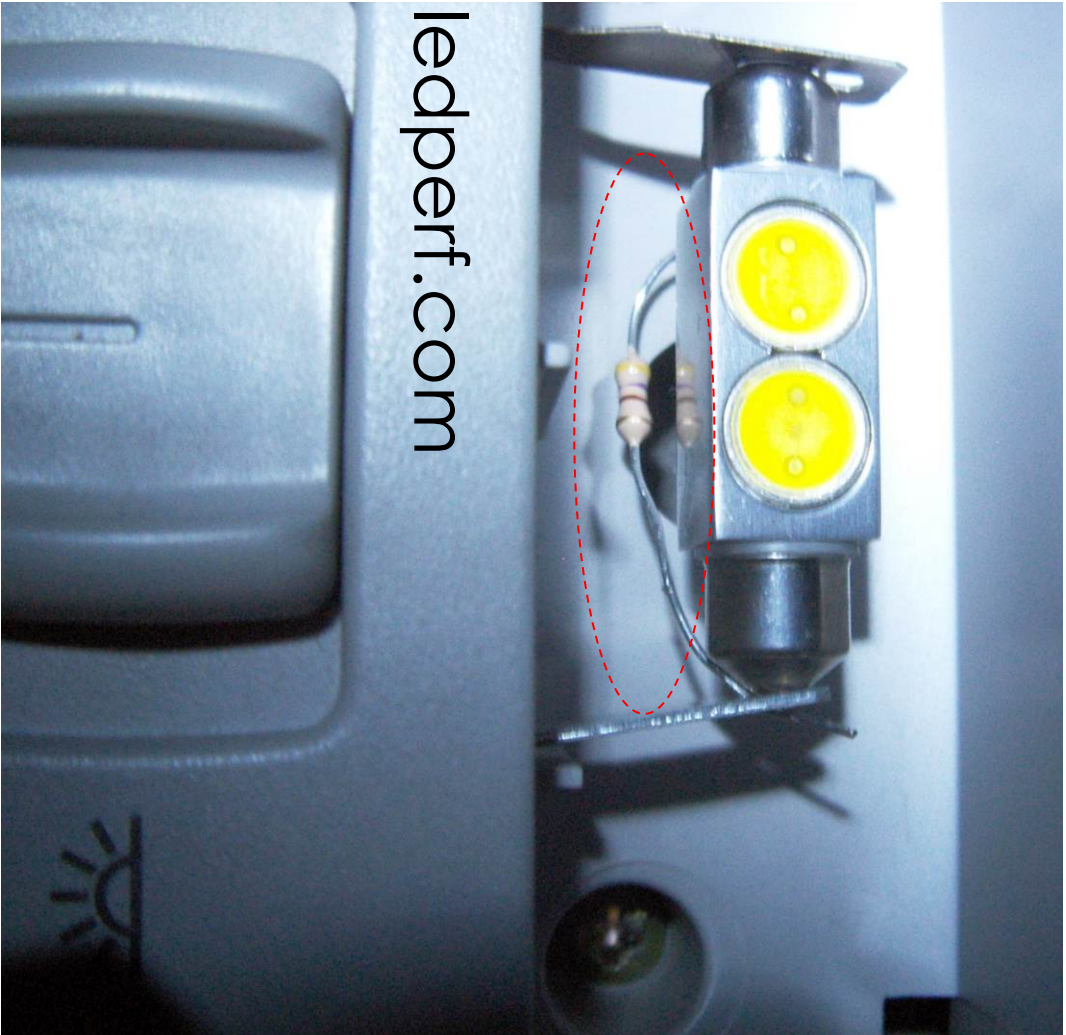
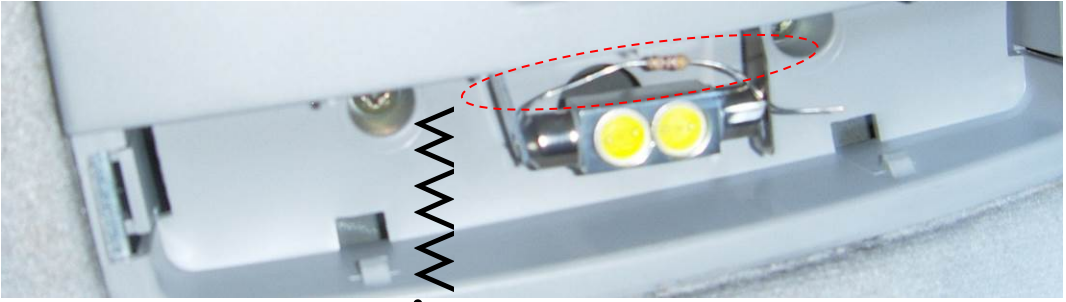
We will therefore place a resistor in parallel to limit this residual current. Here's the resistance:



It is useless to weld the resistance. Simply place it in contact with the led. Example with a shuttle led :



Resistor installed on the ceiling light :



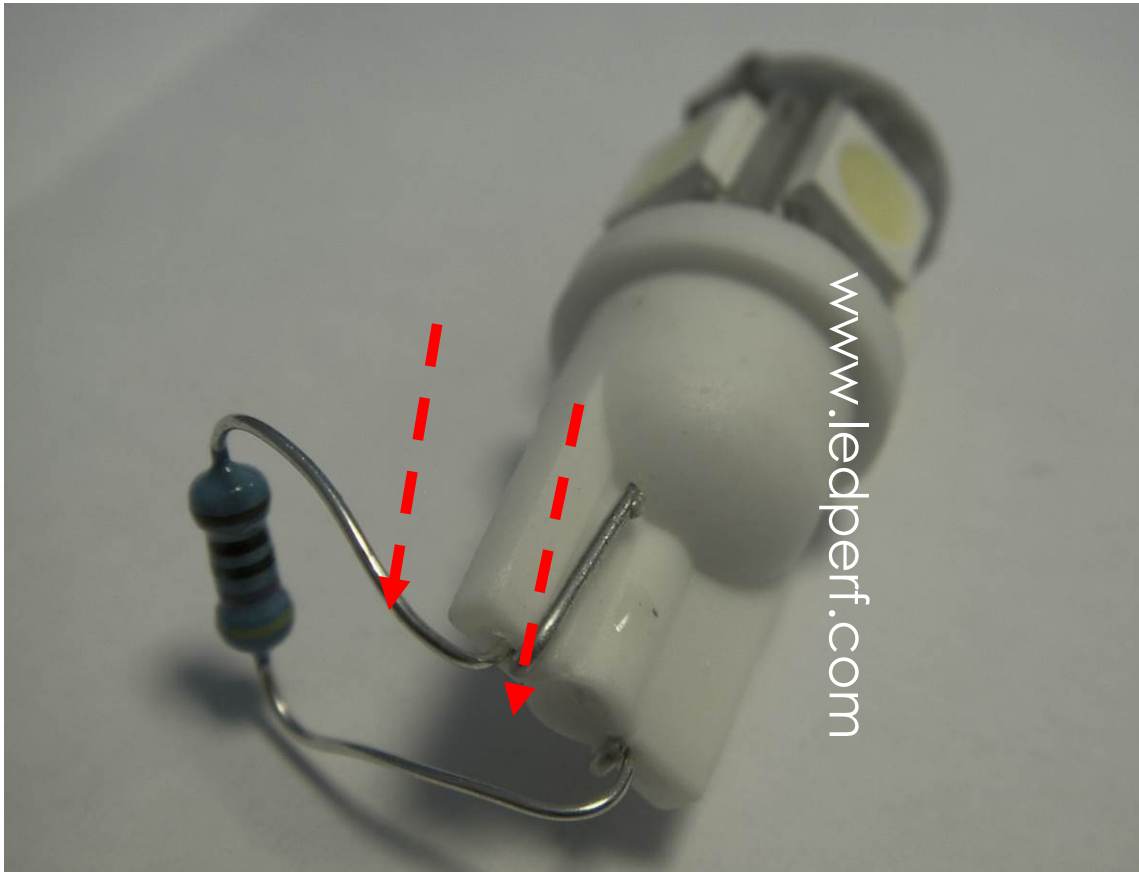
For T10 leds, it is also sometimes necessary to place a resistor. Here's how to place this resistor:



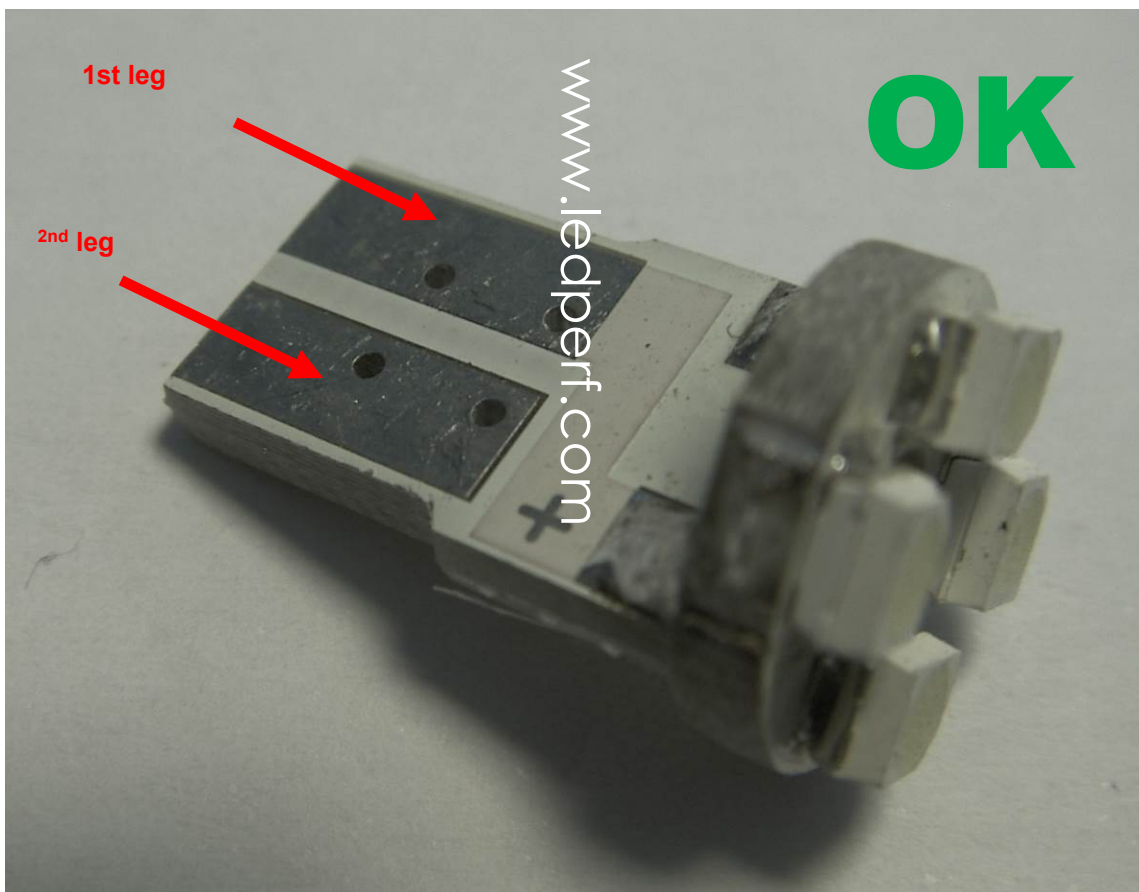
A closer look:



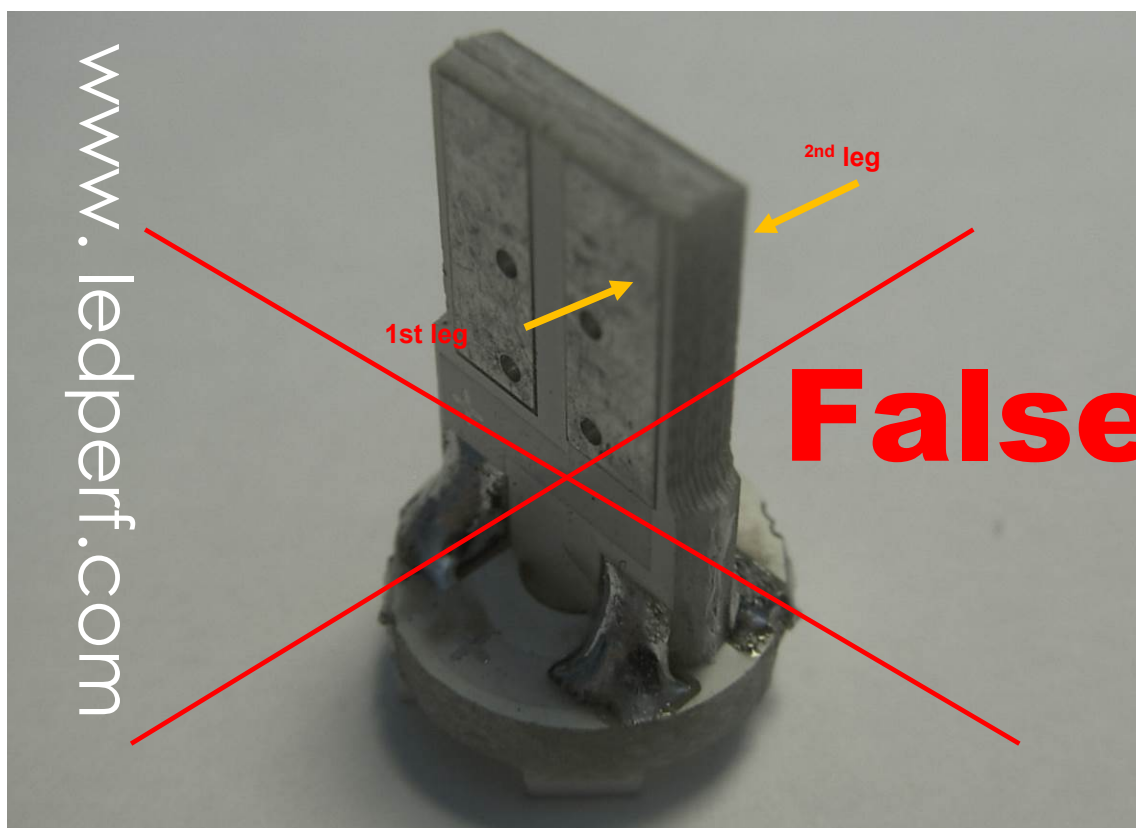
Installation of the resistance in contact with each leg :



If you are using a T10 Efficacy, the resistor must be put in contact with two contacts of the led, **but only on one side:**



**Not to be done** (connection of the resistor on each side of the efficiency led):



Result once the resistor is placed :



Before / After (car closed)



Also know that the ODB error-free leds of our site are also anti-current residual (so without addition of resistance...):

[http://www.ledperf.com/index.php?cPath=30\\_124](http://www.ledperf.com/index.php?cPath=30_124)