

Preventive lights for door edge

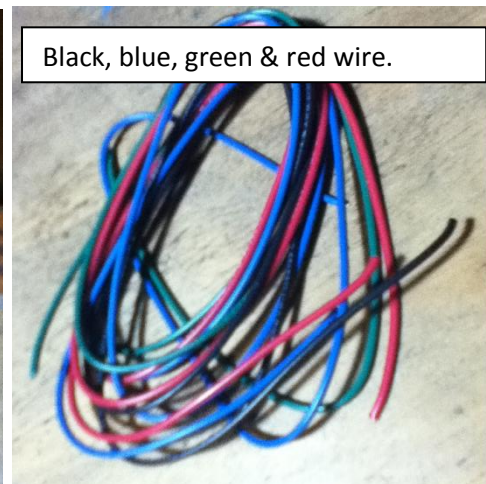
Materials:

- RGB LED SET for 12V
- Cable /Wire (6m)
- Welder wire & Solder Paste
- Soldering iron.
- Scissors / Tweezers

Vehicle: Nissan Tsuru 2004

We'll explain step by step the process to install the preventing lights for the door edge.

1. Buy the raw material, wich are:

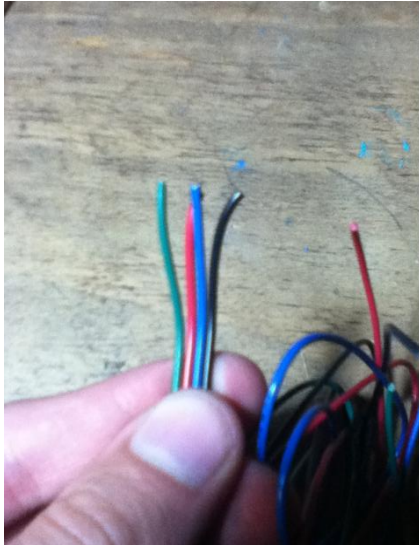


2. The LED set comes together in a big part, so then it's necessary to cut it in a way you found the desired size. In this case we used 3 LEDs. For these step you can use regular scissors.

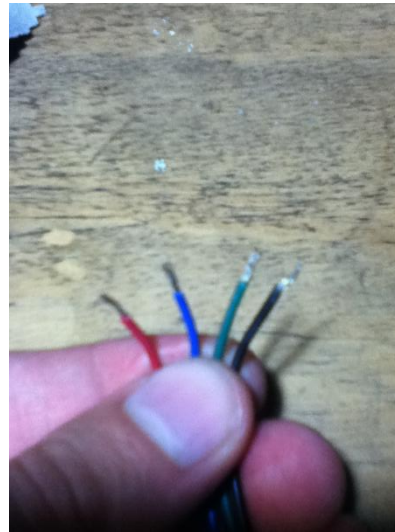


Here we can observe the cutting of the set, make sure to cut it nice and in the marked area.

3. In this occasion we used different wire colors to distinguish the positive alimentation and the color we will activate .We need to peel the wire tips.

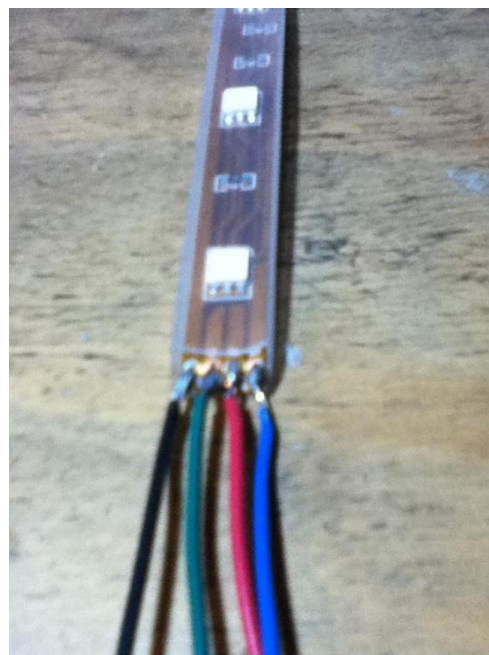


Wire without peeling



Peeled Wire

4. Weld each wire to their respective line using the soldering iron & welder wire 60/40. Also remember to respect the established colors, to avoid confusions.



5. Later we'll have to weld extra wire to every tip or terminal, for this we'll only need welder wire, the soldering iron and the solder paste.

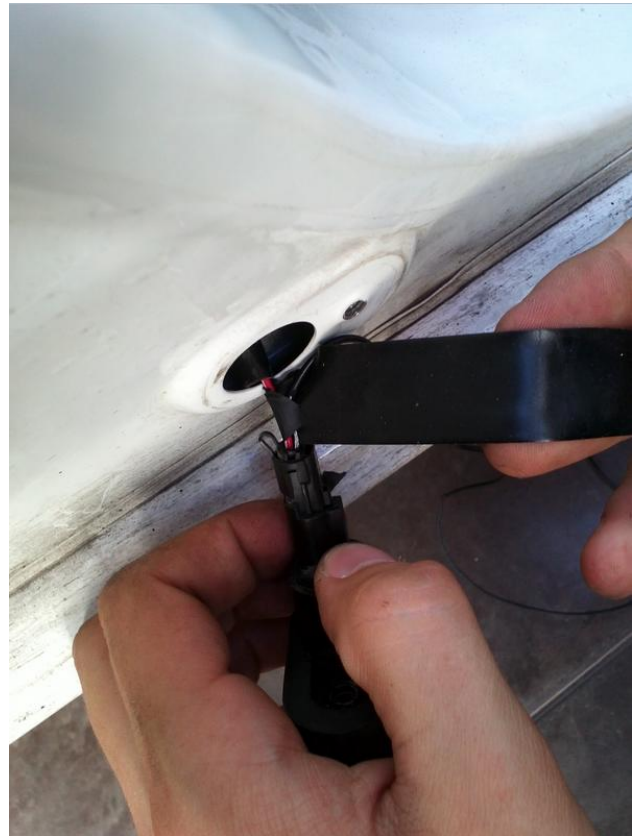


In this occasion we want to create the yellow color (preventive color). Connect the negative side (ground) from the red and green wires. Join the 2 grounds to one single wire.

For the positive side we only need to weld extra wire.

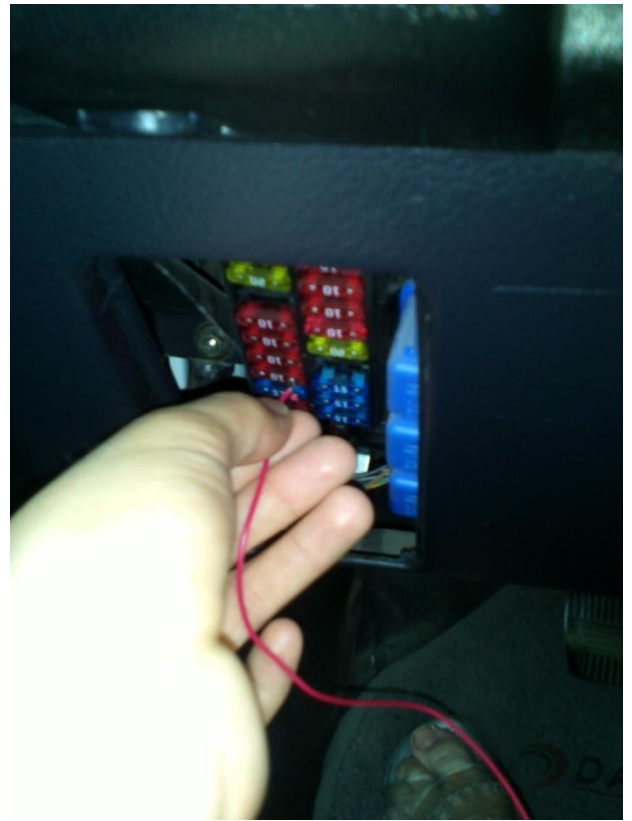
6. You have to find the switch that activates the inside lights on each door. It's frequently located in the door frame. It will provide the ground for activating the LED set when you open the door. It's typically fixed to the frame by a screw. To remove it, you just have to unscrew it.





7. Once you've removed the switch, you have to connect the ground line of the RGB LED set to it. This can be easily done by introducing the cable (previously stripped) from the back of the switch, so that it makes contact with the original cable of the switch. This way you can avoid cutting the cable.

Once inside, secure the cable to the switch using electrical tape and re-introduce the switch in its place.



8. The next step is connecting the positive line of the RGB LED set. First, you join all the positive lines of the LED sets in one. You can connect this line to any 12V positive current source of the vehicle. On this occasion we've connected it to a fuse, but you can connect it directly to the battery or find another practical spot.



9. For pasting the LED set on the edge of the door, most of the LED sets have an adhesive, but if they don't have, you can use any industrial glue.



10. Once you've pasted the LED set you have to adapt the cables so they don't hinder the
You can use electrical tape for fixing the cable or any other method if you want.



On the door, the cables can be easily hidden inside the gasket.



You have to leave extra cable on the joint of the door and the vehicle so the cable doesn't break when you open the door.



On these images, we can appreciate the preventive door edge lights working, we can observe how they Excel in the dark, warning the presence of a hazard.