
Pantera Electronics Bosch P/N 0336401004 Replacement Signal Flasher Installation Manual

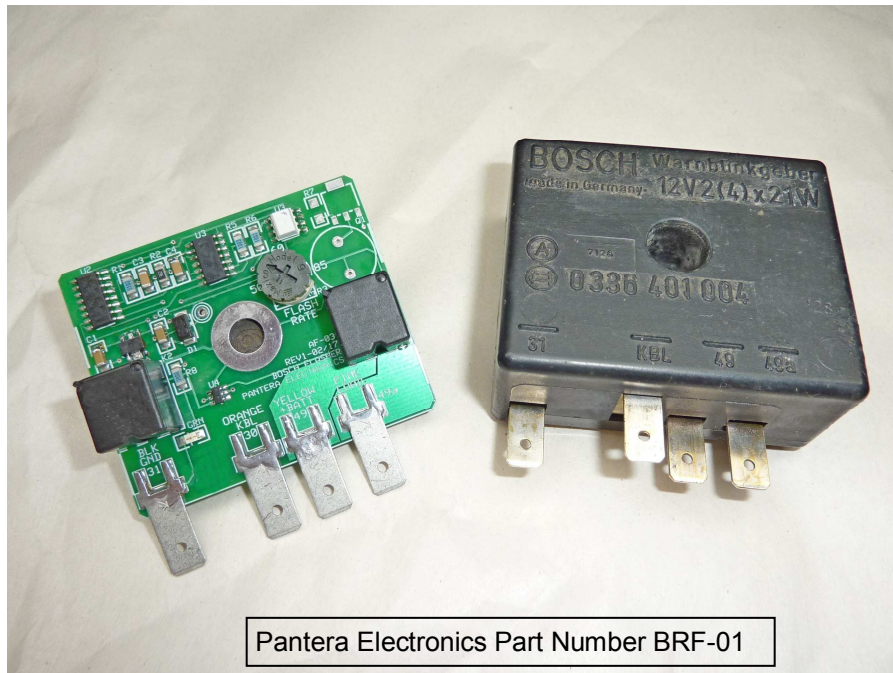
REV 2

This Bosch replacement flasher is a direct replacement for the Bosch flasher used in many 1970's European cars. The Bosch case is opened and the Bosch board removed and the Pantera Electronics board installed.

This Bosch replacement flasher will operate conventional light bulbs or LEDs lamps or any combination of both **without** the need of additional resistors or loads.

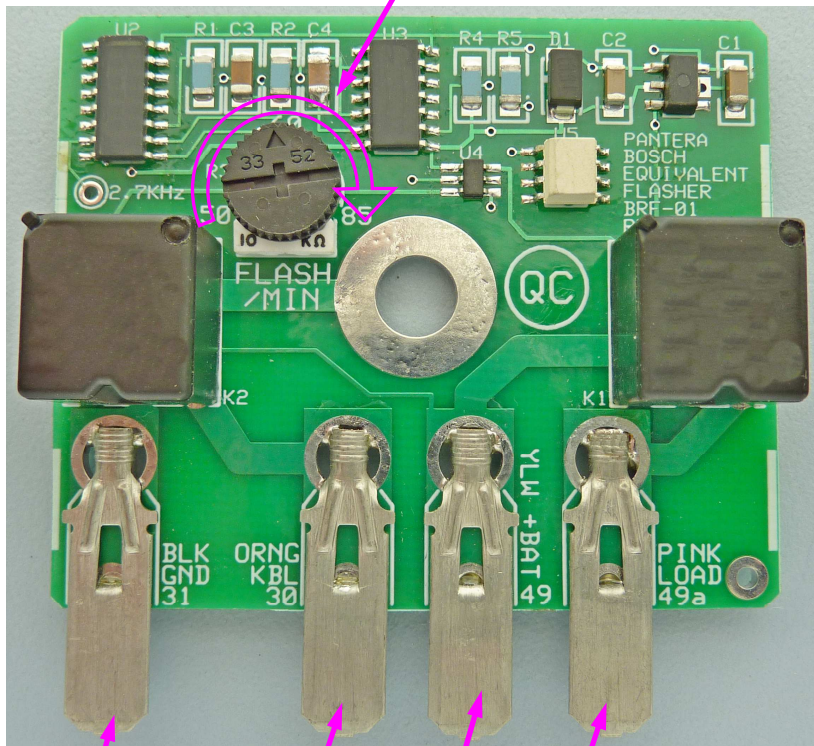
This Bosch replacement flasher also has an adjustable rate flashing control that can be set for the desired speed of flashing. This may be needed for sequential or scrolling LED turn signals.

This is a functional equivalent of the [Bosch flasher P/N 0336401004](#)



Before installing the replacement board the flash rate adjustment can be set by plugging in the harness and operation the flasher.

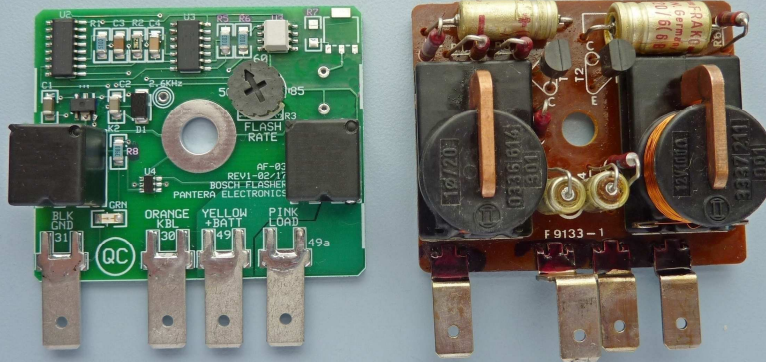
While the flasher is activated rotate the "Flash Rate" adjustment control. Counter-clockwise rotation causes the flash rate to be slower. Clockwise rotation causes the flash rate to be faster.



Connect the wire harness terminals to these tabs in the same order as the Bosch factory flasher.

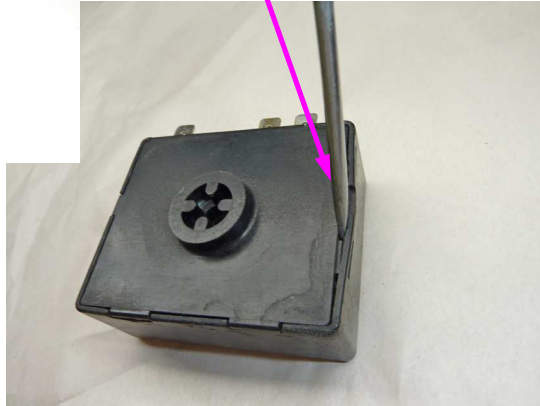
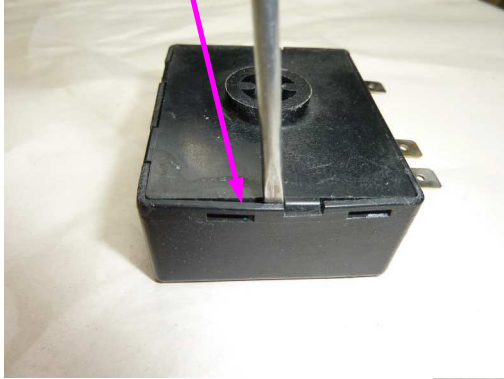
After adjusting the flash rate disconnect the wire harness connector and proceed with the board replacement.

The Pantera Electronics flasher board is the same size as the Bosch flasher board and fits inside the Bosch flasher box.

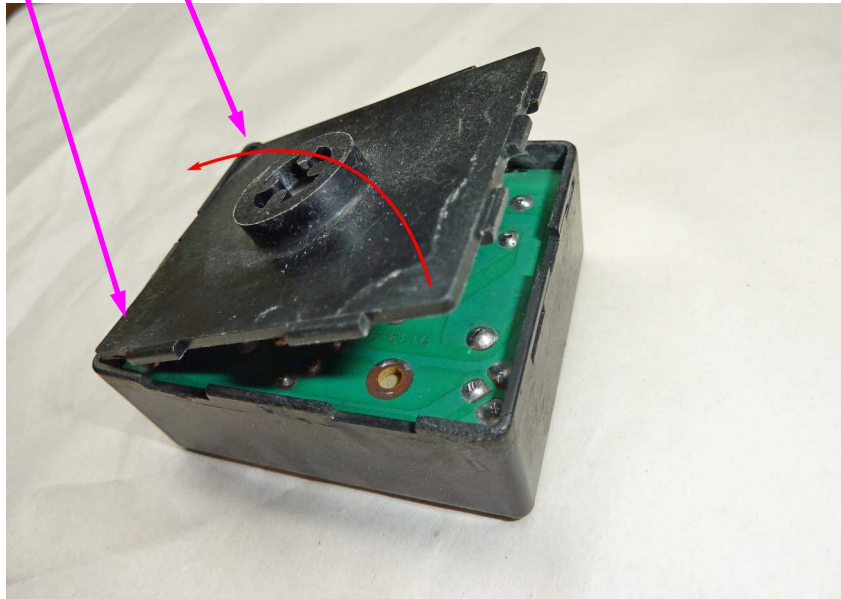


The Pantera Electronics flasher terminals have the same function and in the same order as the Bosch flasher terminals.

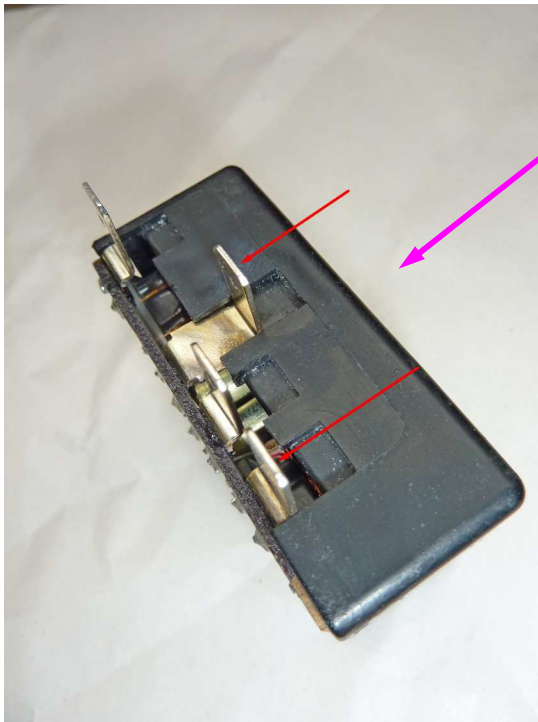
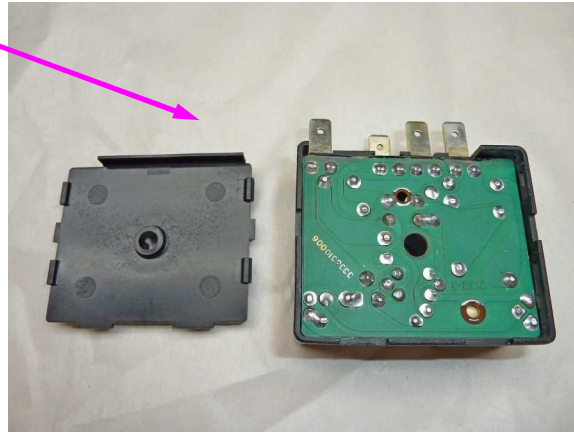
Using a small screw driver carefully pry the edge of the Bosch flasher case open. To not pry too far as to break the case.



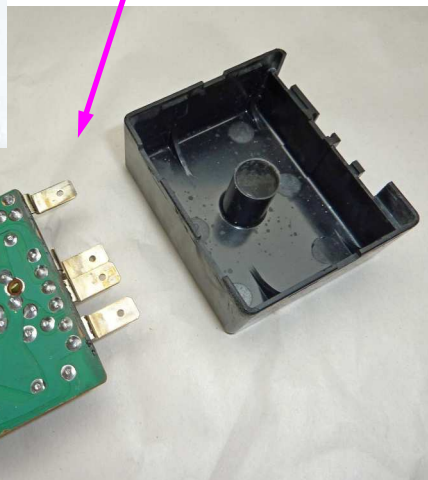
Carefully lift the lid and pull the lid out not to break the tabs on the other side of the case.



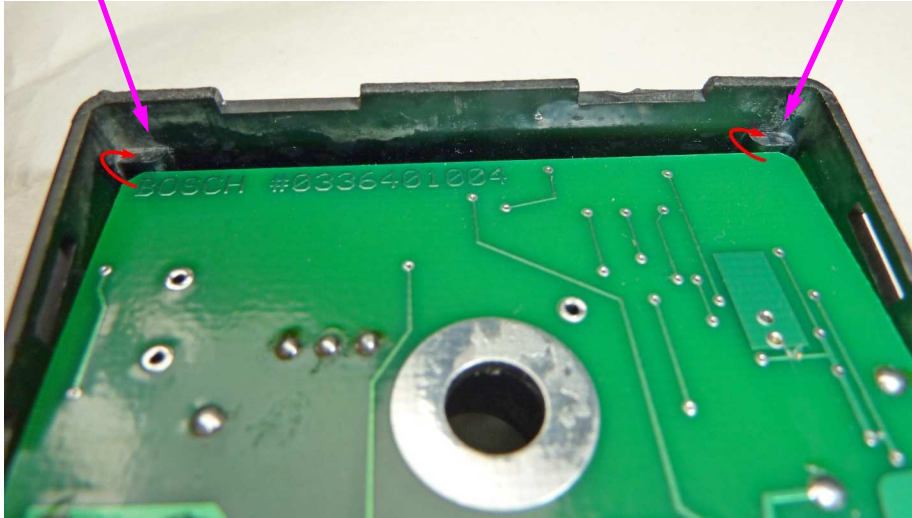
Remove the lid and set it aside, it should look like this.



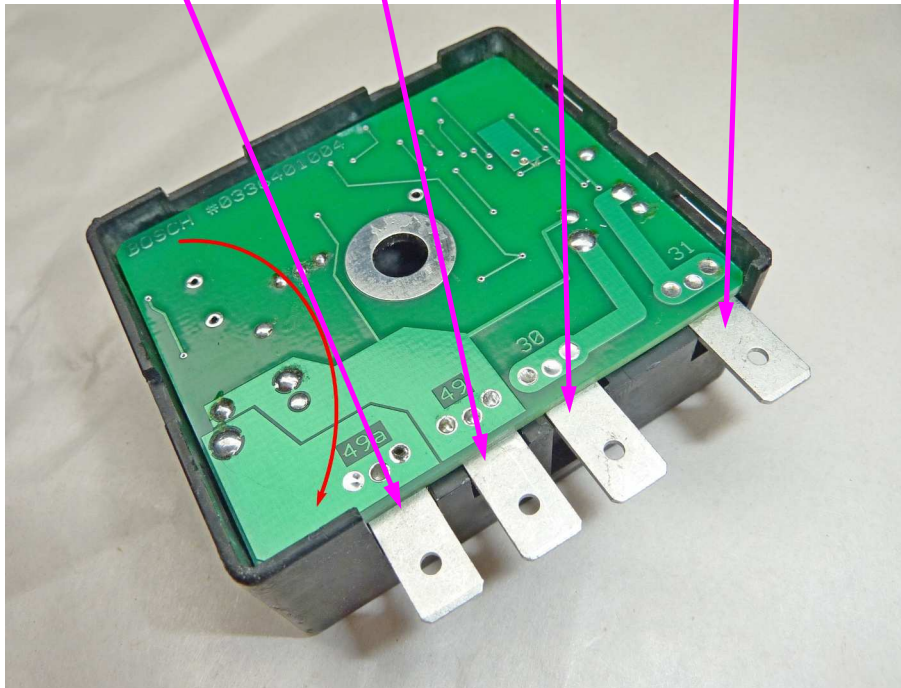
Press the tabs to start the internal board moving and continue by sliding the tabs away from the case. When all of the tabs have left the slots the board can be removed.



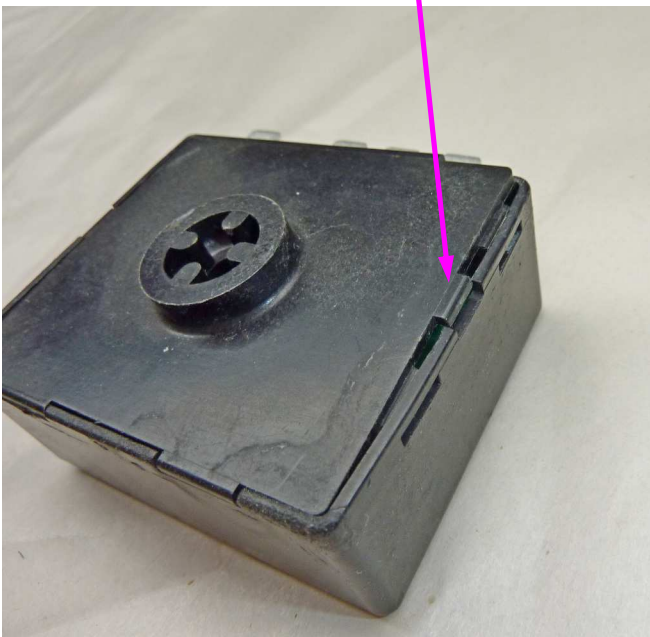
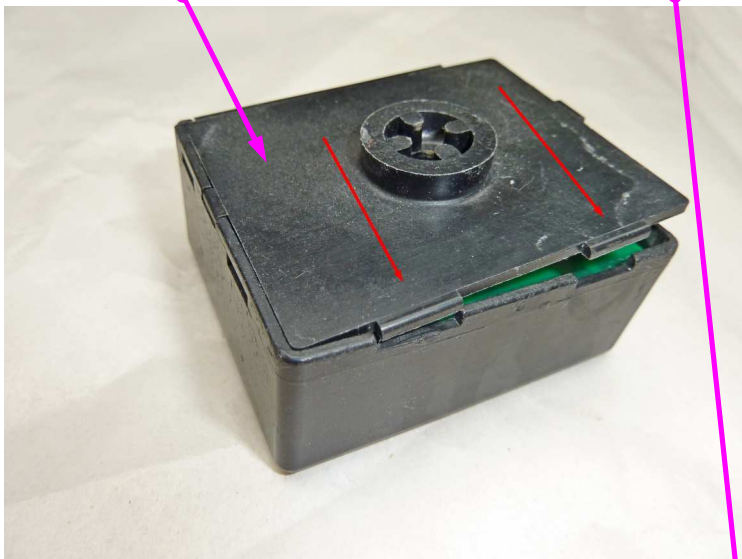
Place the replacement board into the case. Make sure the corners of the board sit on top of the bosses that are in the corners of the case.



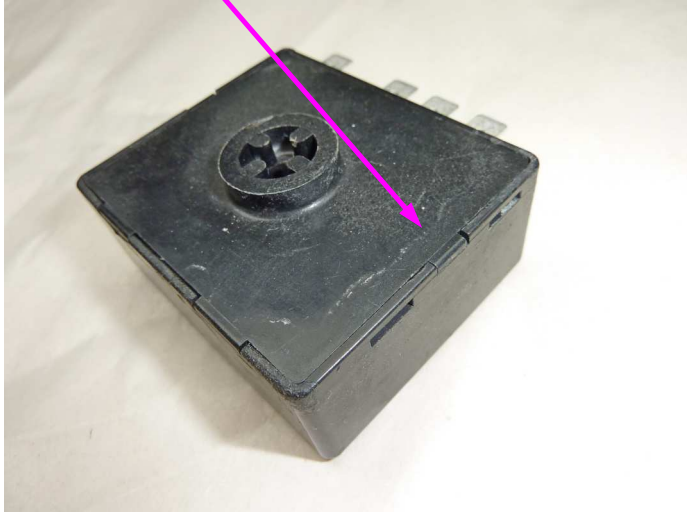
Lower the board while keeping the board sitting on the bosses and position the tabs in the slots. Make sure the board is flush with the edge of the case.



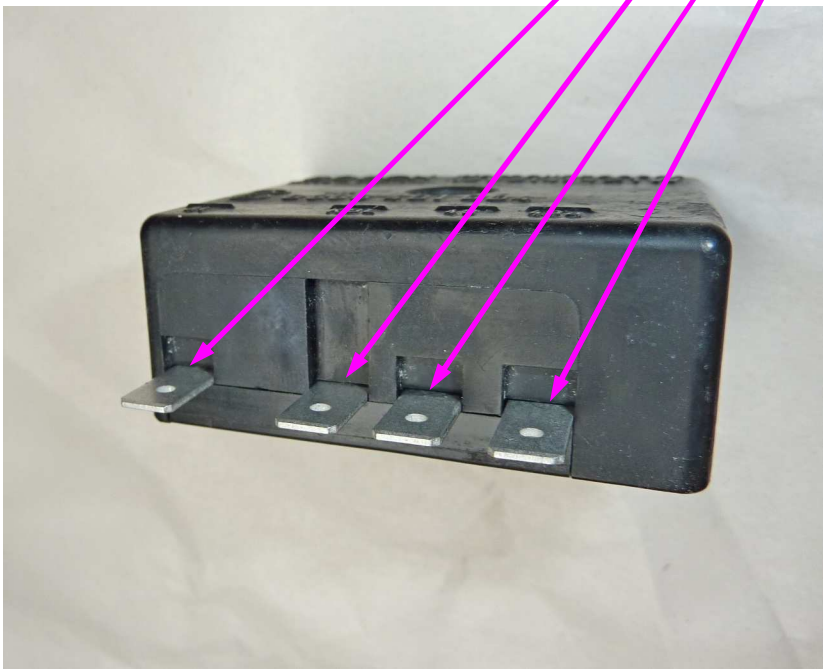
Lower the lid down and press the lid so that the lid fits into the slots in the case.



After pressing the lid into the case the finished flasher case should look like this.



Make sure the terminal tabs are in the slots properly.



The flasher is now ready for installation in the car.