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## Pantera Electronics Installation Manual for Replacement Signal Flasher - Bosch 211 953 215 C

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REV 1

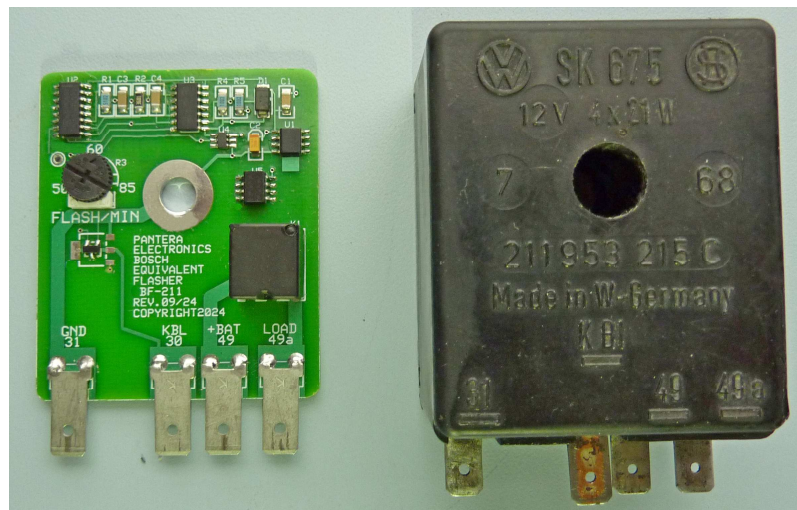
This Bosch replacement flasher is a direct replacement for the Bosch flasher used in many 1970's European cars. The Bosch case is opened, Bosch board removed and the Pantera Electronics board installed.

This Bosch replacement flasher will operate incandescent 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 rate of flashing. This may be needed for sequential or scrolling LED turn signals.

The KBL terminal functions as the same as the Bosch flasher relay.

Functional equivalent: [Bosch # 211 953 215C \(SK675\)](#)

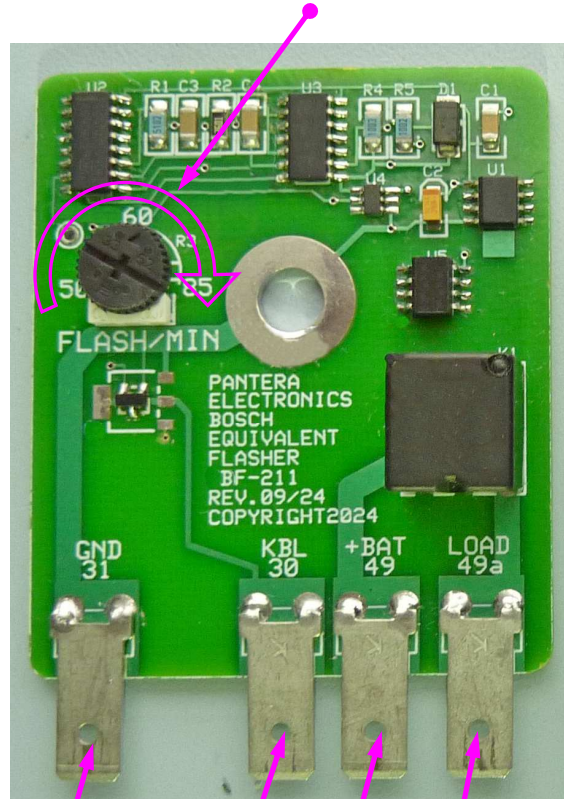


Pantera Electronics Part # BF211

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

While the flasher is active rotate the “Flash / MIN” adjustment control. Counter-clockwise rotation causes the flash rate to be slower. Clockwise rotation causes the flash rate to be faster.

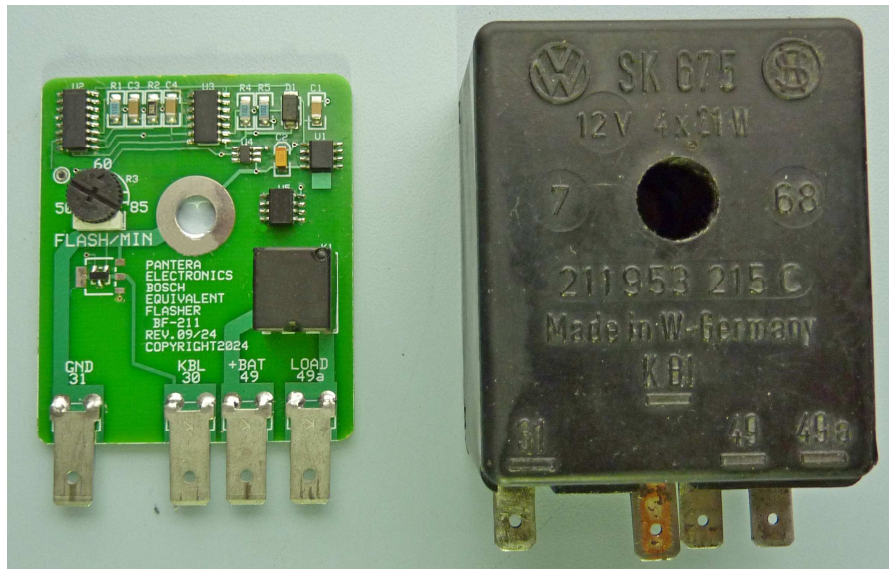
After adjusting the flash rate disconnect the wire harness terminals and proceed with the board replacement

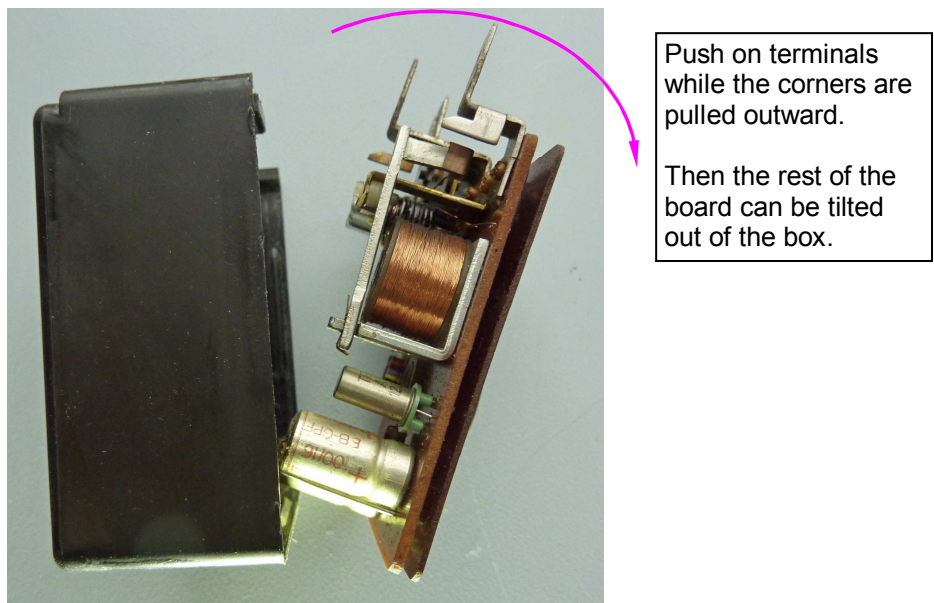
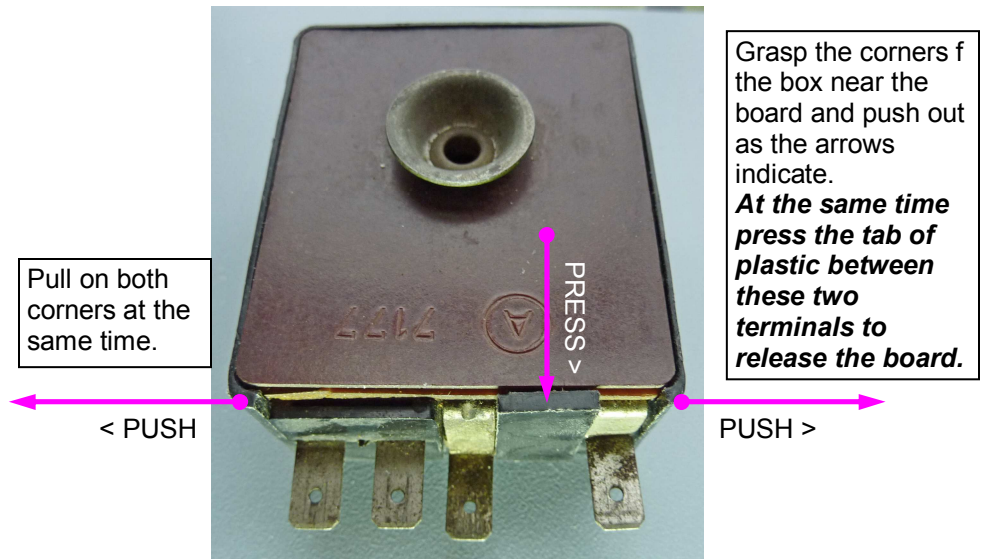


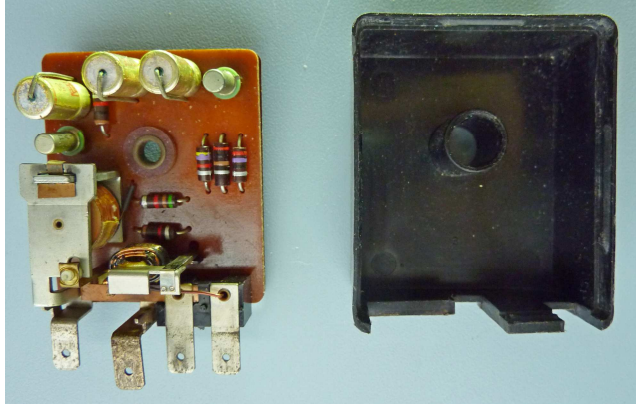
Connect the wire harness terminals to these tabs in the same order as the Bosch factory flasher.

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

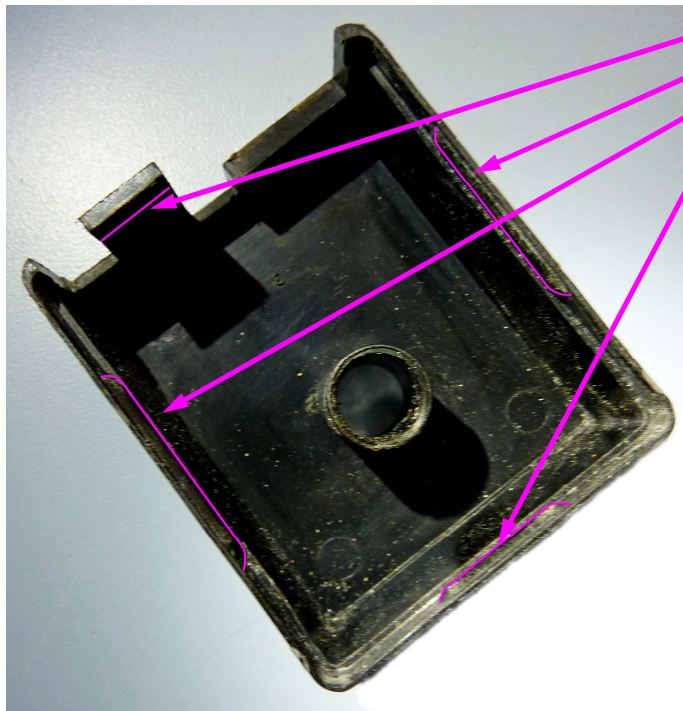
The Pantera Electronics signal flasher relay terminals are in the same order as the Bosch board terminals.



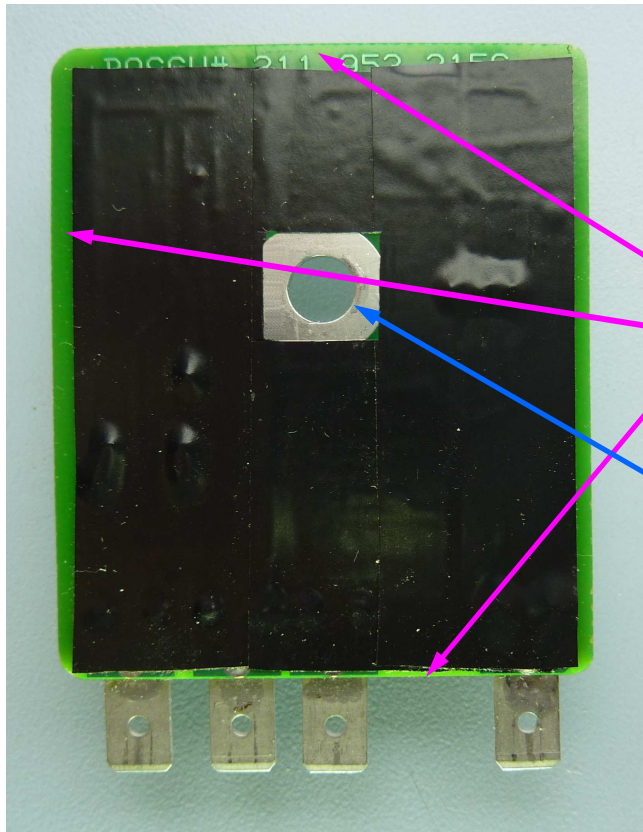




Remove the Bosch board and set it aside. The parts it should look like this.

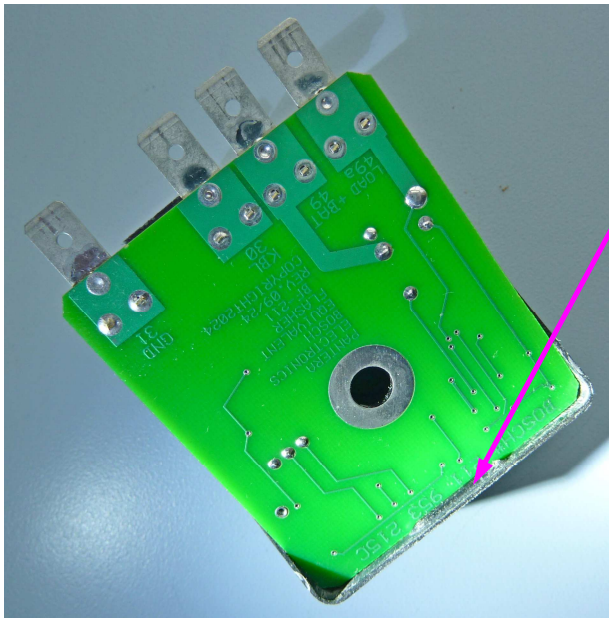


Notice there are 4 retaining tabs molded into the inside edge of the box. This retains the board in a slot inside the perimeter of the box.

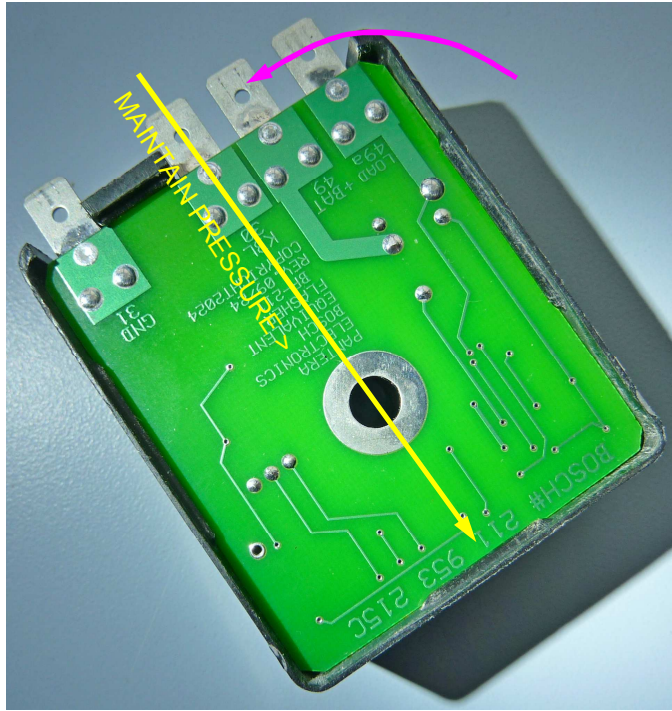


Insulate the bottom of the Pantera Electronics board with electrical tape. Leave a margin for the retaining tabs around the edge.

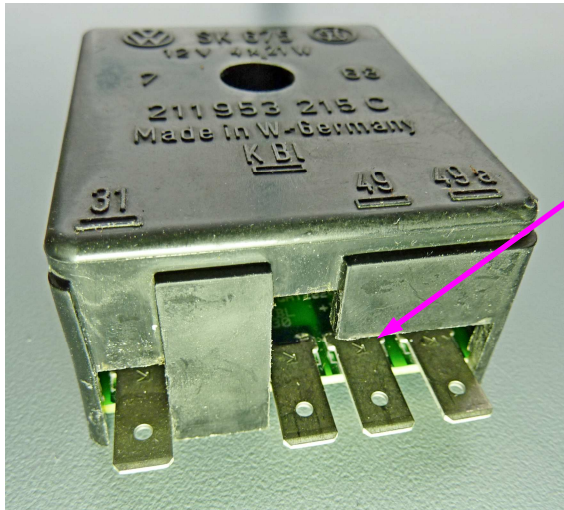
Cutout the mounting hole.



Insert the replacement board into the case tilted so that the edge of the board is underneath the retainer tab and in the slot.



While maintaining pressure on the board to keep it in the slot press the board into the box. The board will snap into the slot behind the retaining tabs.



After pressing the board into the case the completed assembly should look like this with the terminals in this position.

The flasher is now ready for installation in the car.

