
Pantera Electronics Assembly Manual for Replacement Signal Flasher HF211 or HF211A

REV 1

The HF211 is a board level flasher relay is a direct replacement for the Hella relay flasher used in many 1960's through 1970's Volkswagen and other European cars.

The Hella case is opened, Hella electronic board is removed and the Pantera Electronics replacement board installed.

This replacement flasher relay board will operate incandescent light bulbs or LEDs lamps or any combination of both without the need of additional resistors or loads.

- This replacement flasher relay 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 Hella flasher relay for the turn signal indicator.

The HF211A version simulates a tick sound as an audio indication that the flasher is operating.

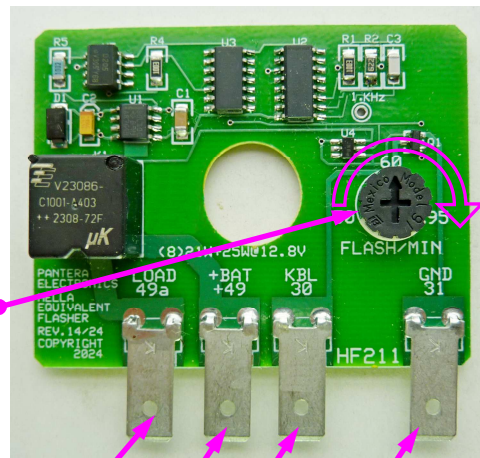
Functional equivalent: [Hella 211 953 215C](#)

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

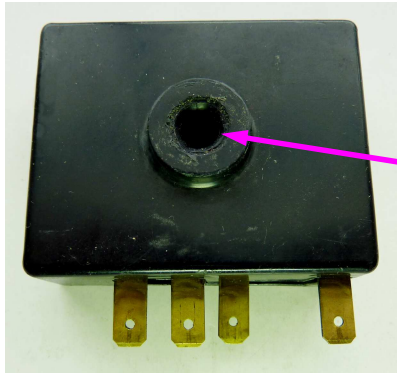
While the flasher is active rotate the "FLASH / MIN" adjustment control. Counter-clockwise rotation causes the flash rate to be slower.

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.



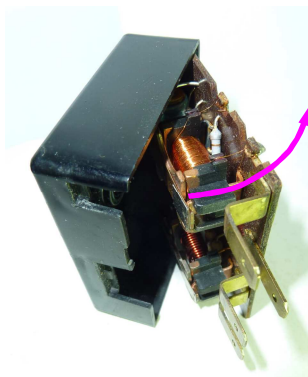
Connect the wire harness terminals to these tabs in the same order as the Hella factory flasher.



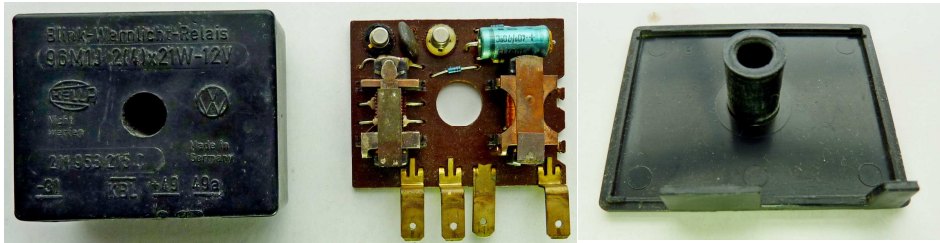
In the mounting hole there is a rivet that retains the plastic housing together. This must be removed without damaging the housing.

Use a 21/64" (0.328") drill and carefully drill down through the center of the hole.

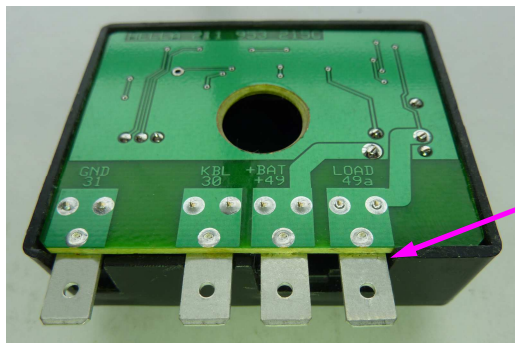
Stop drilling and check the progress of removing the rivet until it is removed.



Lift the Hella electronics out of the box.

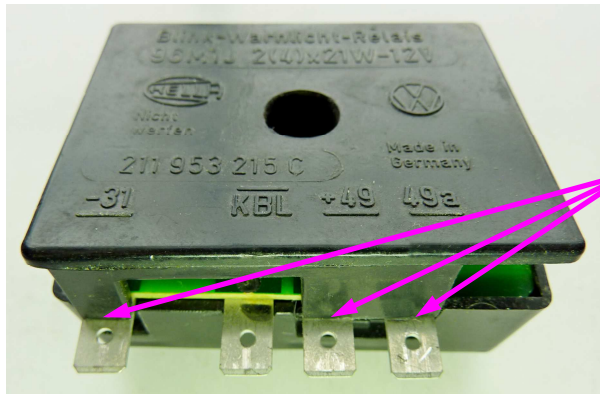


Remove the Hella board and set it aside, the parts it should look like this.

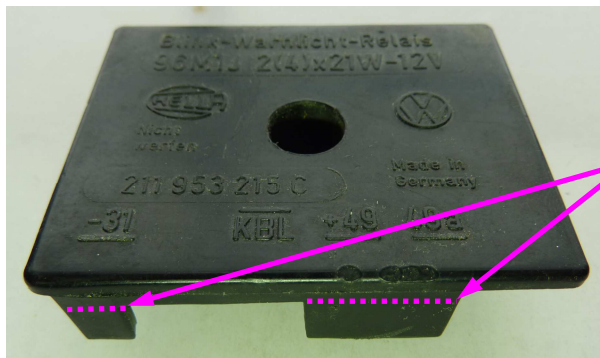


Position the Pantera Electronics flasher relay board in the bottom of the housing.

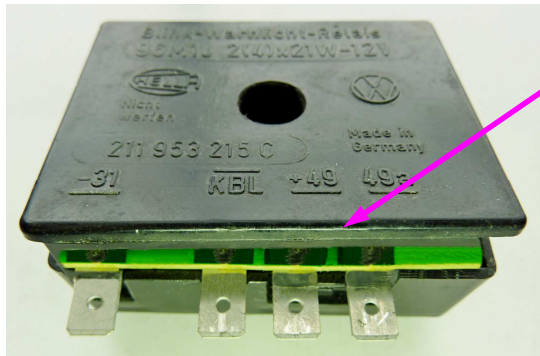
It should fit as in the picture with the tabs fitting into the slots.



Position the top of the housing on the board. Notice that the top does not fit because part of the top cannot fit over 3 of the tabs.



Use a hacksaw blade or something similar to cut the plastic tabs off the top. If preferred, use a marker to draw a line as a guide on where to cut. Use a file to smooth the cut surface.



Finished top with cut off plastic tabs. Insert the mounting screw and mount the flasher relay. Connect the wires to the tabs and perform a final test.

Disclaimer

The products from Pantera Electronics have been design and manufactured with the best quality components known to the engineer. The installation instructions have been written to assist the owner in the proper use and installation of the products. Pantera Electronics can not be held responsible or held liable for the interpretation or incorrect implementation of the products.

