

Porsche 964/993 3rd brake light LED kit

The Porsche 964 and 993 3rd brake light has 24 filament bulbs that are prone to failure. This kit enables you to upgrade to modern LED lamps by exchanging the complete PCB without the need for soldering. The kit has the following benefits:

- Significantly brighter than stock bulbs (each LED is 35 000 mcd)
- 20 times lower current consumption: ,0,13A (original: 2,5A)
- Significantly lower heat emission
- Significantly longer service life
- Immediate light when braking, faster than original bulbs

Kit contents

Two interconnected printed circuit boards with a total of 24 high-intensity LED lamps.



Light disassembly

The third brake light have two mounting positions: (1) On top of the rear window, or (2) on a "basket handle" type of spoiler mounted on the engine compartment lid. Some aftermarket spoiler also use the same type of light.

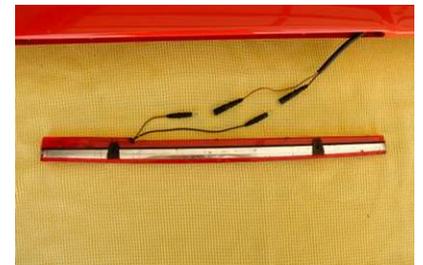
Rear window

Remove the 3rd brake light cover by gently pulling cover upwards with your fingers. Remove the two 10mm nuts and remove the brake light housing. Disconnect the two electrical wires. Unscrew the two Phillips screws on the bottom, and remove the third brake light housing. Remove the four screws that hold the two red plastic parts together. Remove the old PCB with bulbs.



"Basket handle" spoiler

Two screws located on the underside of the basket handle retain the third brake light on early 993s. There isn't much working room, so you will need an offset ratcheting screwdriver, widely available at various tool sources, such as Sears and Harbor Freight. If you don't have one of these neat tools, now is the time to get one. Place a drape over the engine lid grille to prevent losing anything into the engine bay.



Remove the two screws, withdraw the light module, and unplug the two "banana" connectors by gently pulling them apart. Proceed with changing out the light module as described below.

Alternately, the basket handle can be removed from the car before removing the light module. It is retained by two nuts, one on each end, on the underside of the engine lid.

Installation of PCB

Insert the new PCB's with LED's. Due to manufacturing tolerances will maybe the individual LEDs need some fine sideways adjustment in order to properly enter their tubes. **Do not force the LEDs** into the tubes, this can cause damage to the PCB tracks.

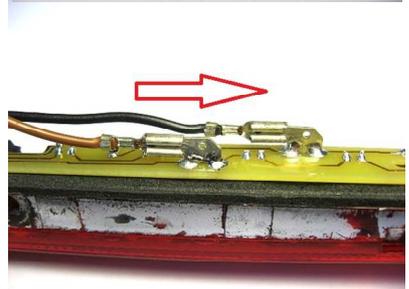
The light strip consists of two halves, to ease production and consignment. The halves are interconnected with copper wires. **Do not** straighten/collapse the two halves, and thus **bending these wires more than two to three times**, you will risk breaking them.

Ensure that the two interconnecting wires in the middle are neatly placed and not obstructing the stud in the red plastic lid or the rubber gasket below the PCB.

Insert both wires **fully** onto the spade connector on the PCB. This will ensure that no short circuit occurs between the connectors and the PCB below. Give the spade connectors a light squeeze with pliers if they have a loose fit. Brown wire goes to spade marked with GND, the LED strip will not work with wrong polarity.

Reinstall the red plastic back cover. Be sure to **NOT overtighten** the screws on the red plastic cover, this will stress the plastic and cause cracks.

Reconnect wires, turn on the ignition and press the brake pedal to test the lights before reinstallation.



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