

HE-LR Load resistors

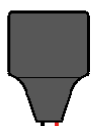
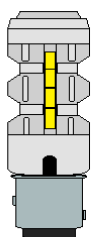
When upgrading accessory bulbs on newer vehicles, it is important to balance the circuit so that the replacement LED bulbs are not miss detected as blown. This issue is caused by the reduced current draw and circuit load that the LED present to the system compared to the factory filament bulbs. If this error occurs, some of the common issues that appear are a bulb out warning light on the dash, a check engine code, hyper-flashing, and in some cases no light output due to the vehicle shutting down power to the circuit. All of the replacement bulbs in the Heise line have special circuitry to prevent these issues from occurring; but due to the variety of requirements by different vehicles, occasionally additional parts are needed to balance the circuit.

Accessory replacement bulbs

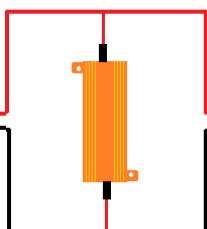
Accessory replacement bulbs can use **load resistors (HE-LR)** to balance the circuit. They are installed across the positive and negative leads of the light bulb, and between the vehicle and the replacement bulb. The load resistor is not directional and can be installed either way. Depending on the requirements of the vehicle it may be necessary to install one load resistor per circuit, or one load resistor per bulb. Please note that load resistors can become hot during use and should be mounted to a solid metal surface to prevent damage to wires or plastic parts.

Load resistors

LED Bulb



Load Resistor



Vehicle

