

## Load Resistor Use

The low power drain inherent in LED bulbs can often confuse your vehicle into thinking the bulb is out. This will create a “bulb out warning” on your dashboard, cause “fast flashing” of your bulbs, or even just completely shut your LED bulbs off. These situations can be remedied by using load resistors.



### Load Resistor LR12

Typically used for turn-signal, tail light, side-markers and license plate applications



### Load Resistor LR24

Typically used for turn-signal, tail light, side-markers and license plate applications

## Do I Need Load Resistors?

Possibly not. The primary applications that require their use are in tail lights, turn-signals, and sometimes in side-markers and license plates. These cases are also often limited to higher-end vehicles that are more likely to have "bulb-out" warning features. This is a feature also found in, but not limited to, many newer model year German made vehicles.

Due to the large number of vehicle makes, years, models, and lighting applications, we are unable to provide a list of vehicles that will require load resistors. If you are unsure if your vehicle will need these for the light application in which you are interested, we recommend the following:

Check your vehicle's owner's manual.

Search online user forums.

Purchase the lamps. If you need load resistors, you can always get them later. :)

**1 x 12v Load resistor (LR12) is equivalent to 1 x 12v 21w globe.**

**1 x 24v Load resistor (LR24) is equivalent to 1 x 24v 21w globe.**

## Correct Method for fitting Load Resistors - Applies to LR12 and LR24 Load Resistors

The Resistor wiring should ALWAYS be connected between the Input wires of the Lamp, NOT the Chassis of the vehicle or trailer!  
If fitted to the Chassis, a bad earth connection is possible, and can result in problems with the lighting system of the vehicle!

### Indicator Circuit

If fitting to the Indicator circuit, fit one lead of the resistor to the positive supply side (Yellow or Green Wire depending on which side of the vehicle or trailer) and the other lead of the resistor to the Negative supply or Ground Input Wire (White).

### Brake Circuit

If fitting to the Brake circuit, fit one lead of the resistor to the positive supply side (Red Wire) and the other lead of the resistor to the Negative supply or Ground Input Wire (White).

### Actual Fitting

To fit the Resistor use the 2 screw down points on the resistor to secure it to a metal chassis.

### Installation

Installation is very easy. The load resistor wires just need to be spliced into the LED bulb's wiring harness as shown in this illustration. A load resistor will get very hot when the bulb is lit, so it should not be mounted on plastic

