

PHILIPS

Automotive lighting



CANbus adapters for LED Headlights and Fog Lights

bHIFib2

The simple, easy-to-install solution for common LED bulb issues.

LED upgrade headlights and fog lights are great. They're rugged, they last far longer than conventional bulbs, and they offer brilliant illumination. But in some vehicles, they can also trigger a false bulb failure warning.

Avoid false bulb failure warnings by installing the Philips LED CANbus Adapter.

Some cars use the vehicle's computer network (CANbus) system to verify the functioning of the vehicle's lights. Because LED bulbs have a lower wattage and draw much less power than conventional bulbs, when the system runs a check, the electrical resistance of an LED may be too low to be detected. This creates a false warning that one of the lights has failed. Philips LED CANbus Adapters help prevent false bulb failure warnings. Installation of the adapters takes just minutes.

In addition, a lot of auto manufacturers use PWM (or pulse width modulation) to precisely control the voltage to a bulb. One of the benefits of doing this is to improve bulb life.

These quick, voltage pulses (PWM) do not give a bulb filament time to cool down and dim, so for halogen bulbs the pulses are not noticeable. However, with an LED bulb, these pulses are enough to turn the LEDs off and on very quickly, which results in a flashing of the light.

The CANbus adapter we have for fog lights eliminates any issues introduced when installing an LED in place of a halogen bulb. Installation of the adapters takes just minutes.



See other side for Frequently Asked Questions.



Philips CANbus Adapter Frequently Asked Questions

After installation of LEDs, my car does not start or runs/performs poorly. What should I do?

After installation of LED bulbs, some cars may go into 'limp home' mode. The car's computer is looking for the resistor value of an incandescent bulb, but the LED has a different resistor value. This difference in resistor values can cause a false message that the car has a problem. Thankfully, this happens rarely, and the issue can be easily resolved.

First, verify that the 'limp home' mode is being caused by the LEDs by reinstalling the conventional bulbs. If the 'limp home' mode clears, it was most likely caused by the LED bulbs. This means that you'll want to install a Philips LED CANbus Adapter to provide the resistor value that the vehicle's computer expects to see.

After installation of the LED my bulbs flash or flicker, as if my light is defective. What should I do?

LED bulbs can appear to flash because a lot of auto manufacturers use PWM (or pulse width modulation) to precisely control the voltage to a bulb to improve bulb life. These quick, voltage pulses (PWM) do not give a bulb filament time to cool down and dim, so for halogen bulbs the

pulses are not noticeable. However, with an LED bulb, these pulses are enough to turn the LEDs off and on very quickly, which results in a flashing of the light.

If your LED lights flash or flicker after installation, you'll want to install a Philips CANbus Adapter. Installing the adapter in the circuit prevents this problem, and installation takes only minutes.

My dashboard displays a 'bulb out' message even though all lights are working. What should I do?

Some CANbus systems see the low power consumption from LEDs as a sign of a burned-out bulb. This causes a false warning on the dashboard. If your car has a dashboard error message after installing an LED light, you'll want to install a Philips LED CANbus Adapter.



Philips LED Headlight and Fog Light CANbus Adapters are available in:

Part No.	Fits	Application
CANbus H7	H7	Headlight (H7), Fog Light (H7)
CANbus H8 H11 H16	H8, H11, H16	Headlight (H11), Fog Lights (H8, H11, H16)
CANbus HB3 HB4	9005, 9006, 9012	Headlights (9005, 9006, 9012), Fog Light (9006)
CANbus H4	9003	Headlight only (9003)
CANbus 9004	9004	Headlight only (9004)
CANbus 9007	9007	Headlight only (9007)
CANbus 9008	9008	Headlight only (9008)
CANbus 9145	9145	Fog Light only (9145)

Note: in rare cases, vehicles may not adapt to a CANbus Adapter.

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