

LEDMaster adapter LS91207-00

What LEDMaster does

The LEDMaster adapter makes trailers with LED lights compatible with all towing vehicles.

How it works

LEDMaster is a seven-channel in-line device that sits between the trailer plug and the trailer's LED lights. Each channel relates to one light circuit (e.g. the LH or RH tail light, or the brake lights).

Filter and load simulator

In each channel there is a filter and a load simulator. The filter removes any test signals from the towing vehicle that could cause the LED trailer lights to flash randomly. The load simulator adds a load to the circuit that the vehicle will accept as a working bulb.

Indicators are conditional

The two indicator channels also have built-in conditionality. That means that the load simulators on the indicator circuits will not work unless the LED indicator lamps are working.

LED Lights only: See next page for mixed bulb circuits

The LEDMaster is for LED lamps only and has built in resetting fuses to prevent overload. For mixed bulb circuits see the technical data on the next page.

How it fits into the trailer's wiring

The LEDMaster can be used as a portable plug-in device or it can be permanently fixed to the trailer and hard wired. The illustration shows a LEDMaster with cables installed.

Plug-in (LS91207-00 plus LSLOOM07 or LSLOOM13)

The plug-in version requires a 1.2 metre input cable (the one that connects to the vehicle) and a 200mm output cable, with 7-pin or 13-pin plugs and sockets fitted to the input and output cables. These are connected into the box by the user. The trailer's plug plugs into the LEDMaster's output socket and the LEDMaster plugs into the vehicle. The device can then be strapped to the A frame. (*Plugs and sockets are supplied separately.*)

Hard wired (LS91207-00)

The hard wired version should be fixed to the chassis and connected in line into the existing loom on the trailer.

Both types are also available in 24 volt (LS92408)

Fixing to the trailer

The plug-in LS91207-310 can be strapped to the A frame, possibly using cable ties.

The hard-wired LS91207-22 should be permanently fixed to the trailer. There are two mounting holes on the back and the unit is supplied with suitable screws for these holes.

Fixing plate

An optional fixing plate, LS91207FP is available. This gives the box a fixing flange as shown in the pictures.



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Data sheet

LEDMaster Vehicle to LED Lamp Adapter

The LEDMaster 8-channel adapter reconciles the lamp-monitoring capabilities of vehicles with incompatible features of LED road lights. It connects inline to the cables supplying the lights.

LEDMaster lets the vehicle “see” LED rear lights and cuts out random flashing

It can be fixed to the draw bar of a trailer (or elsewhere if appropriate) and plugged in between the socket of the towing vehicle and the LED lights of the trailer. Alternatively, it can be hard-wired directly into the trailer wiring loom.

Conditional on flashers only

The trailer flasher circuits are monitored and, if the trailer flashers fail, the vehicle will detect the bulb failure. This is usually indicated by a doubling of the flash rate.

PLEASE NOTE that when the flashers are working correctly, the vehicle may give a double flash rate for about two seconds when an indicator is switched on BUT this will correct very quickly. It is caused by the time delay (a few milliseconds) between the flasher coming on and the conditional load being applied. The indicators on the trailer will, however, function correctly.

No conditionality on other circuits.

The remaining circuits, side lights, brake lights, fog lights and reverse lights are not monitored for failure of the LED lights.

Overload protection and filament bulbs

Each channel is overload protected with a resetting fuse. These fuses will not support filament bulbs so it is preferable to replace filament bulbs with LED ones. Alternatively, on any channels where filament bulbs are present, the connections within the LEDMaster box can be made so these circuits pass directly through. Use the loose butt connectors included.

Additional Resistors. The test signals on some vehicles' flasher circuit are strong enough to get through the filters. A resistor kit (LS912R100) is included to fix this. Instructions are in the resistor kit.

Push-in connections for simplicity

All connections, input and output cables and the ballasts, are made with plug-in connectors on the printed circuit board. Plug-in models have cables supplied, to be fitted by the user; hard wire models accept the trailer loom cables directly into the push-in connectors.

[Link to web site page](#)

Inside view, showing the input, output and ballast connections



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