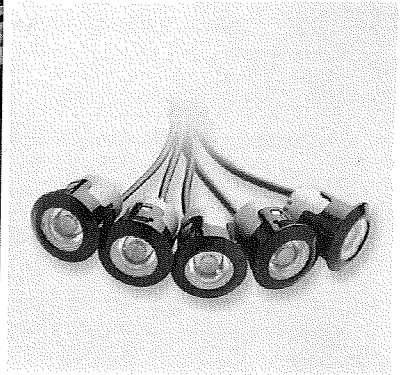
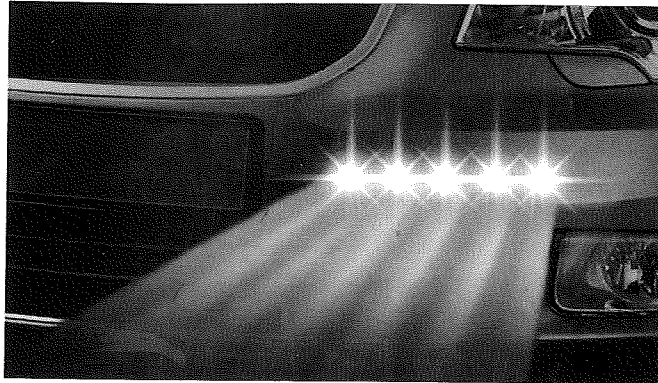




## Built-in Daytime Running Lights

DTRL502 manual



## Introduction

A daytime running lights (DRLs) is an automotive lighting device on the front of a roadgoing motor vehicle, automatically switched on when the vehicle is moving forward, emitting white light to increase the conspicuity of the vehicle during daylight conditions. Numerous studies done worldwide since the 1970s have tended to conclude that daytime running lights improve safety.

DTRL502 series DRLs are the best choice, it's power consumption is only 5~10 W and the brightness is very high, it can be installed in cars, caravans, buses, trucks and motorcycles.

## Main Features

- **Easy installation and wide vehicle compatibility**
  - 1) Independent LED lights with a hole cutter, that can be easily installed in all vehicles such as cars, caravans, bus and trucks.
  - 2) Connect the power cable to the battery, making installation easy.
  - 3) Each LED light works independently, and can be coloured to match the vehicles bumper.
- **More safety**
  - 1) Using super bright LED with full colour greatly increases the visibility of vehicles.
  - 2) The design of independent and mosaic structure makes it easy to radiate heat.
  - 3) Waterproof, the system can work in all weather condition.
- **Design your own light pattern as you wish**

Install 10~20 independent LED lights in any your own designed pattern, making your vehicle look extremely stylish.

## Parameters

<b>Model:</b>	DTRL502
<b>Number of LED lamps:</b>	10 pcs (can be upgraded to 20 pcs)
<b>Lifetime:</b>	50,000 hours
<b>Suitable vehicles:</b>	cars, caravans, buses, trucks and motorcycles (12V & 24V)
<b>Drilling-hole diameter:</b>	19.5mm
<b>Working temperature:</b>	- 40°C ~ 80°C
<b>Input voltage:</b>	9-32 VDC
<b>Colour:</b>	Silver /white /gloss black /matte black

## Installation Instructions

- 1) Select the position to install the LED lights in the bumper. Ensure there is enough space for the DRLs in the back of the bumper. Optimal distance between two LED lamps is 30 mm.
- 2) Stick the positioning stickers to the bumper according to your favorite light pattern (Figure 1 is an example). To make sure it looks good.
- 3) Drill the holes in the bumper (Figure 2).
- 4) Push the LED lights into the holes (Figure 3).

## Installation Instructions

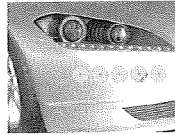


Figure 1

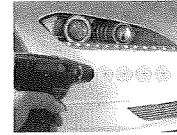


Figure 2

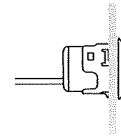


Figure 3

### 5) Wiring methods:

**Wiring diagram I:** When you want the ECU to work on engine running sense, connect the red wire of the ECU to Battery (+12V/24V).

**Wiring diagram II:** When you want the ECU to work on ignition sense, connect the red wire of the ECU to an ignition sense and then cut the black loop.

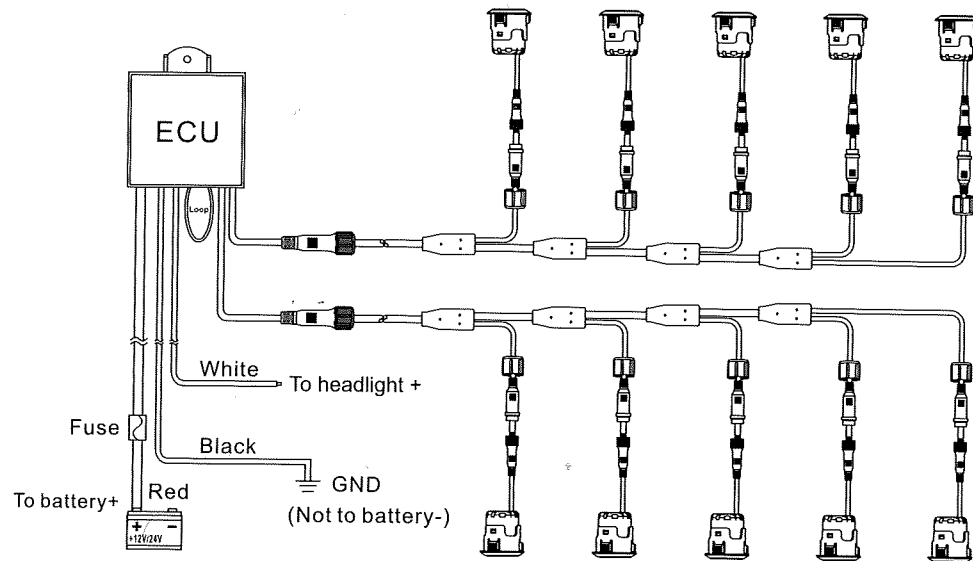
### 6) Check the DRLs function after installation.

After finish all installation:

Start engine, switch headlights off, the DRLs should turn on, then stop engine running, DRLs will turn off in 15 seconds.

Start engine, switch headlights on, the DRLs should turn off.

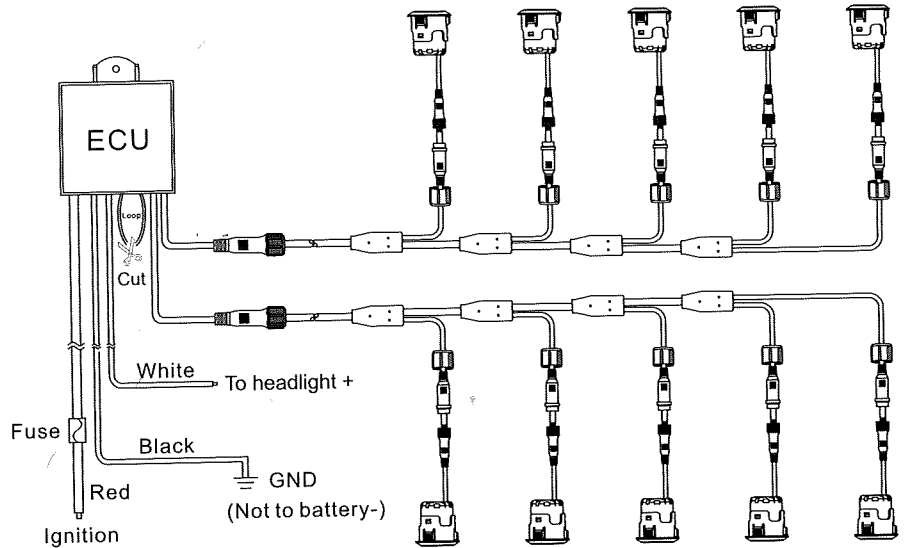
### Wiring Diagram I



Make sure the red wire to the ECU is energized (+12V/24V).

## Wiring Diagram II

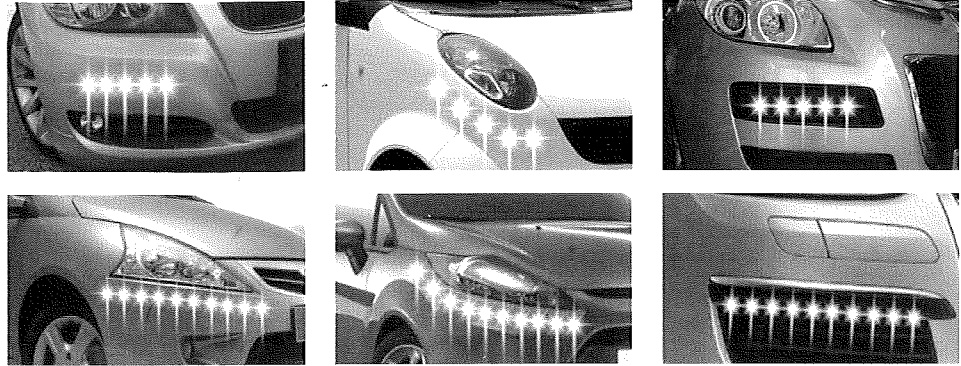
When you want the ECU to work on ignition sense, connect the red wire of the ECU to an ignition sense and then cut the black loop.



## Notes

- 1) Only when the vehicles engine is running will the DRLs turn on.
- 2) Make sure the red wire to the ECU is energize (connected to the battery).
- 3) Check the black wire is grounded correctly.

## Some consumer's favourite light patterns:





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