



MBLight STAR3 Beam Effects Module

Installation manual

Revision 0.51

08/2023

WARNING:

General precautions:

It is strongly recommended to install the product with the help of a qualified personnel with experience in automotive electronics, who knows safety measures related to the use of electrical equipment and conversant with the contents of this manual.

We will not in any way be liable to you for any kind of loss or damage incurred as a result of your use of our product or any of the information provided that may affect you while you use our product.

The warranty is limited to defects in materials and workmanship and does not cover damage or abnormal wear and tear resulting from abuse, misuse, or accidental damage. Unauthorized repairs or alterations void the product warranty.

Precautions during installation:

It is strongly recommended to detach ground line of on-board electrical system battery during an installation.

ANY EXTERNAL CHARGER EQUIPMENT MUST BE DISCONNECTED

The manufacturer is not responsible for damaged equipment during the installation of the Module, or during the operation of the Module, as well as material, moral damage, or loss of health.

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1. Preface

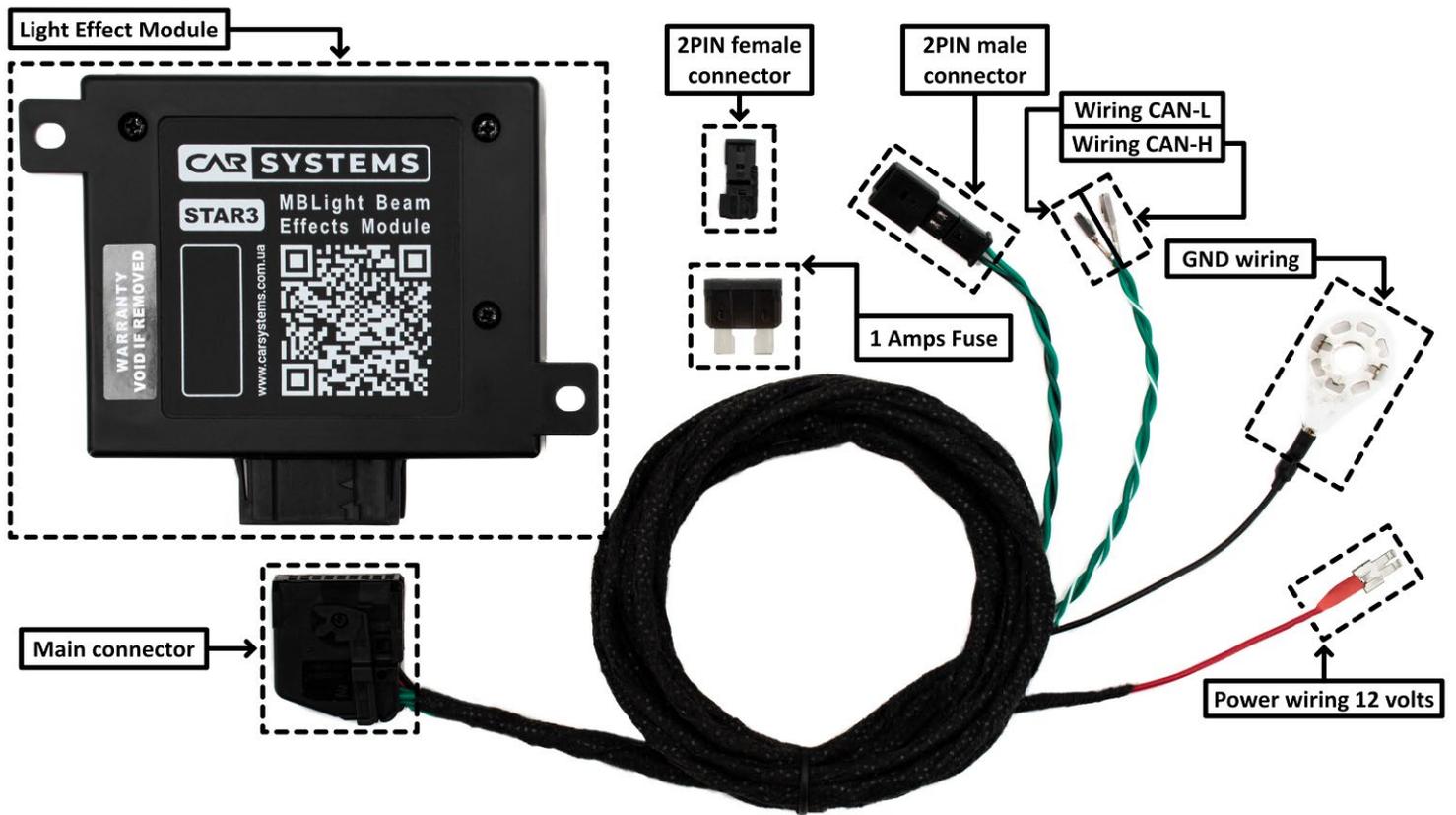
This manual contains a module installation guide and will help you to install the **MBLight STAR3 Beam Effects Module** (hereinafter **Light Effect Module**).

1.1. Audience

The document describes **Light Effect Module** installation procedure and is intended for customers, partners, and employees of CarSystems.

This document provides instructions and graphics needed for the **Light Effect Module** installation.

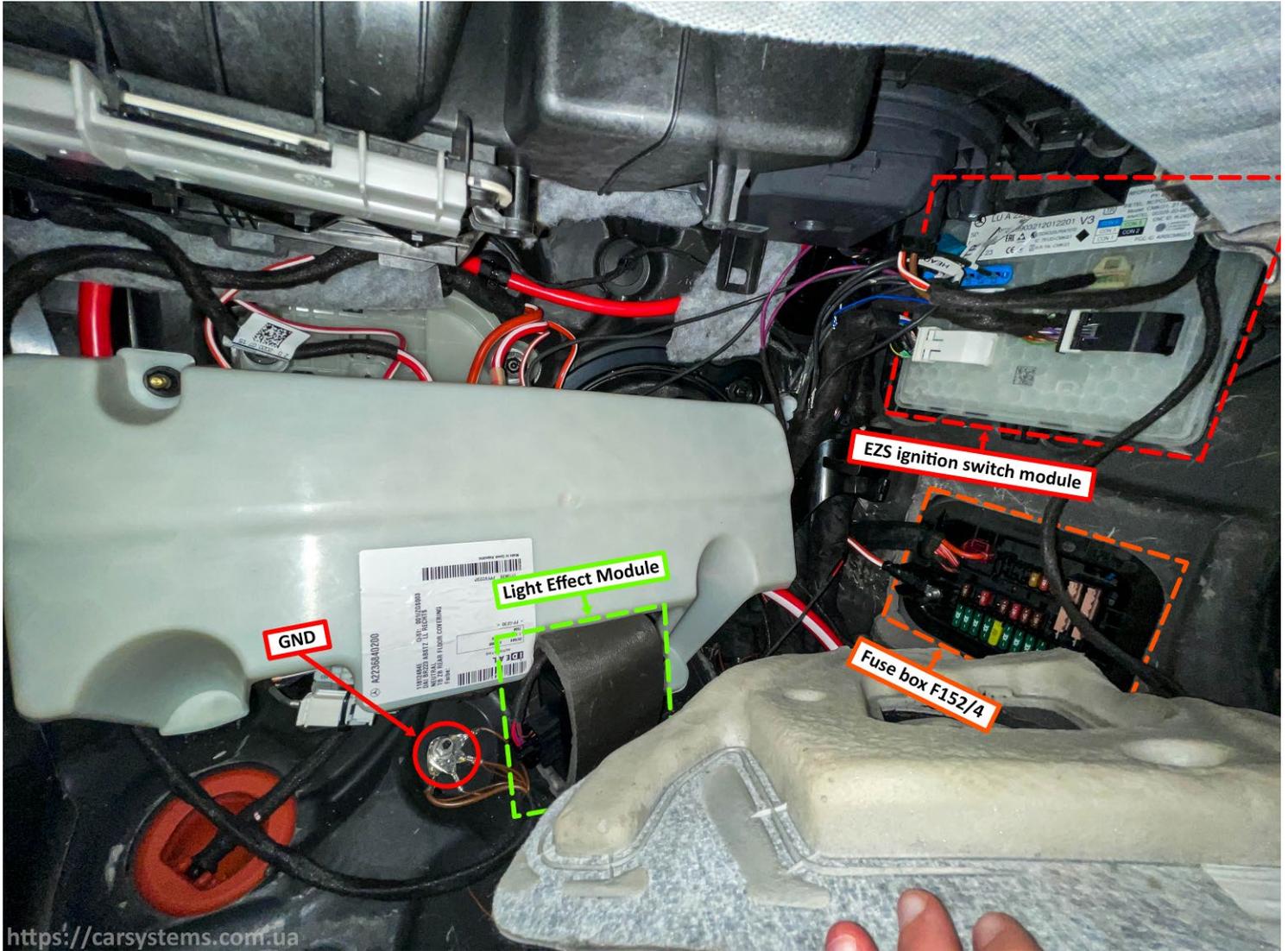
2. Delivery kit and appearance



Picture 1 Delivery kit and appearance

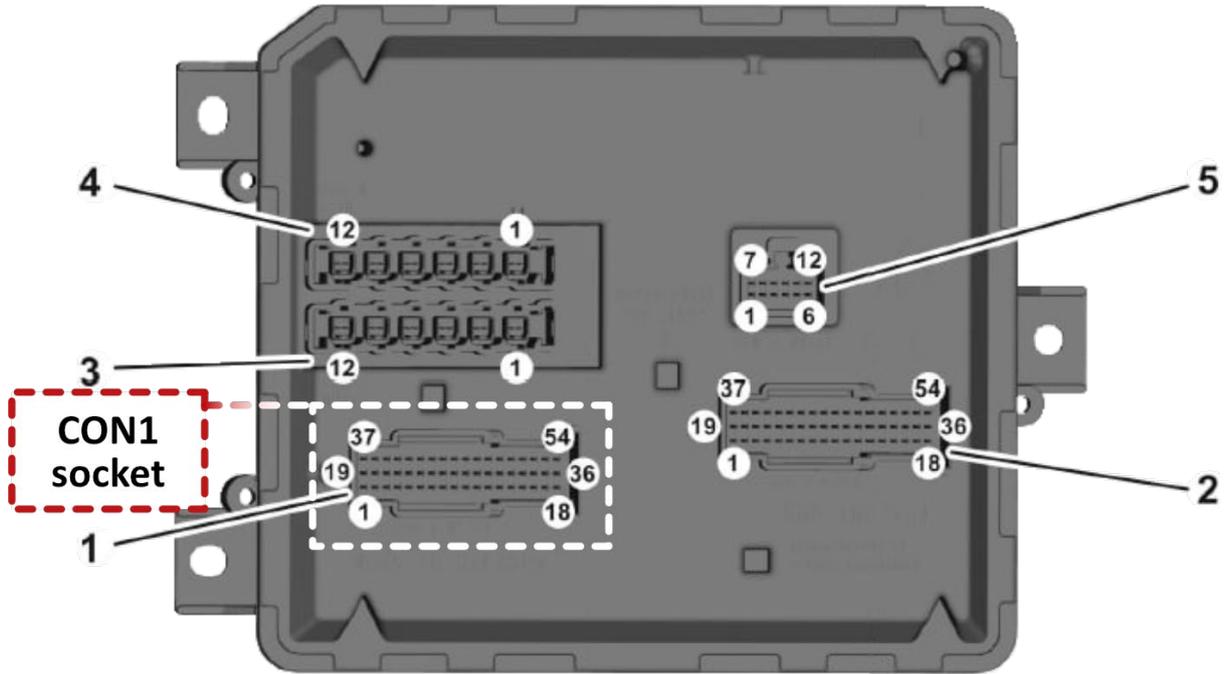
- Delivery kit:
 - **Light Effect Module;**
 - Main connector;
 - 2PIN female connector.
 - 1 Amps FUSE.
 - One plastic tie (3,6 mm x 150 mm)

3. Location of the elements for the Light Effect Module installation

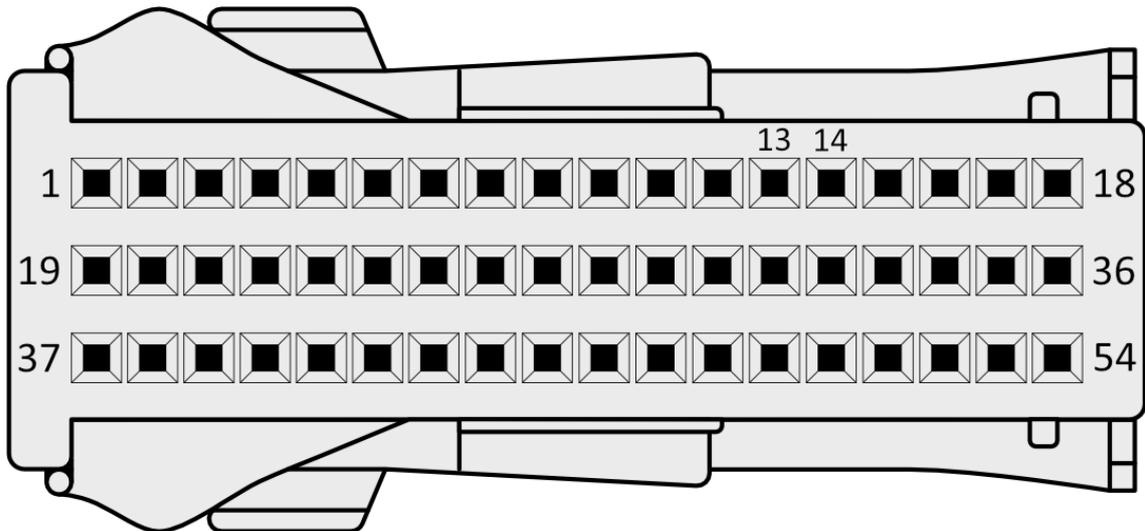


Picture 2 Location of the elements for the **Light Effect Module** installation

4. Brief information for the Light Effect Module connection.

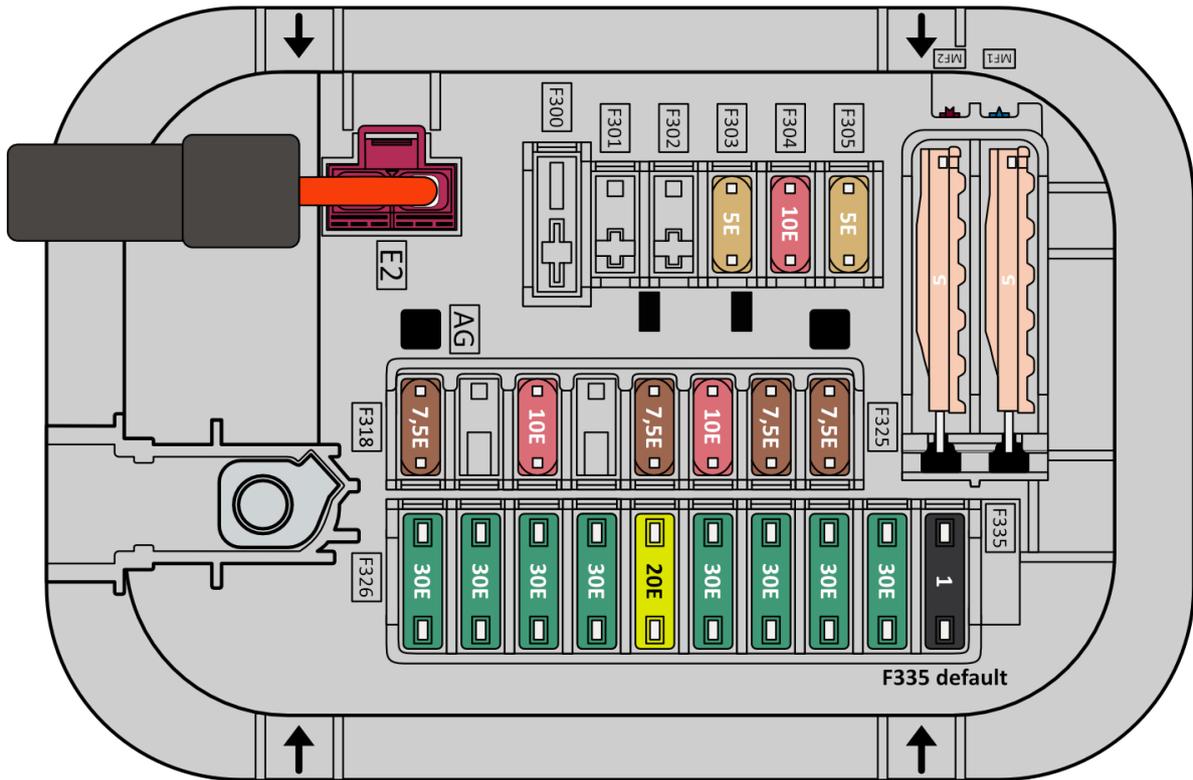


Picture 3 EZS ignition switch module

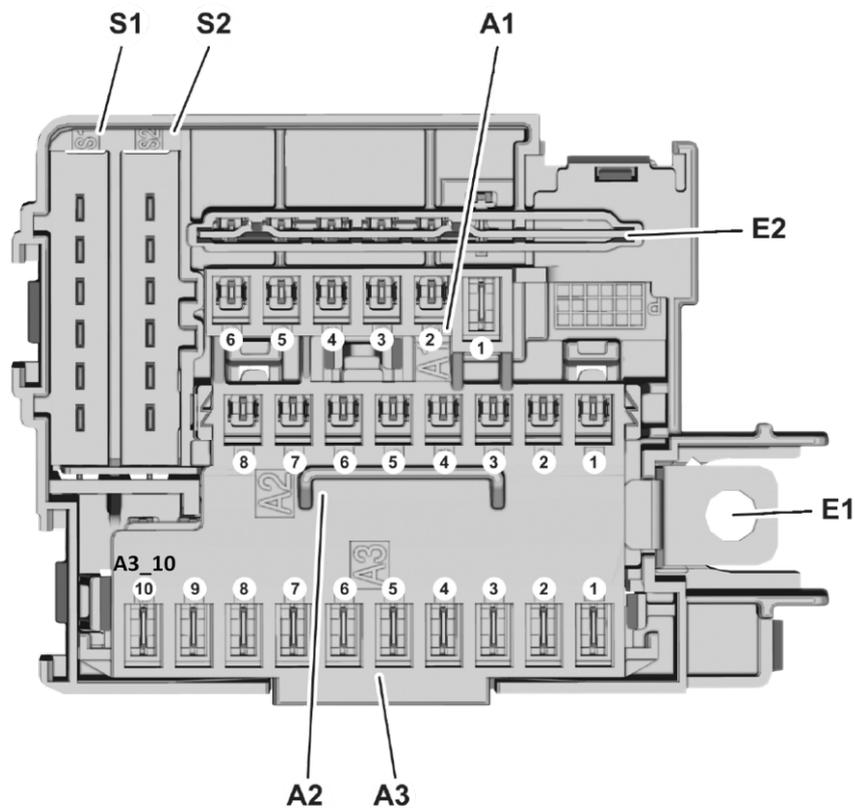


Picture 4 CON1 white plug connector (hereinafter CON1 plug)

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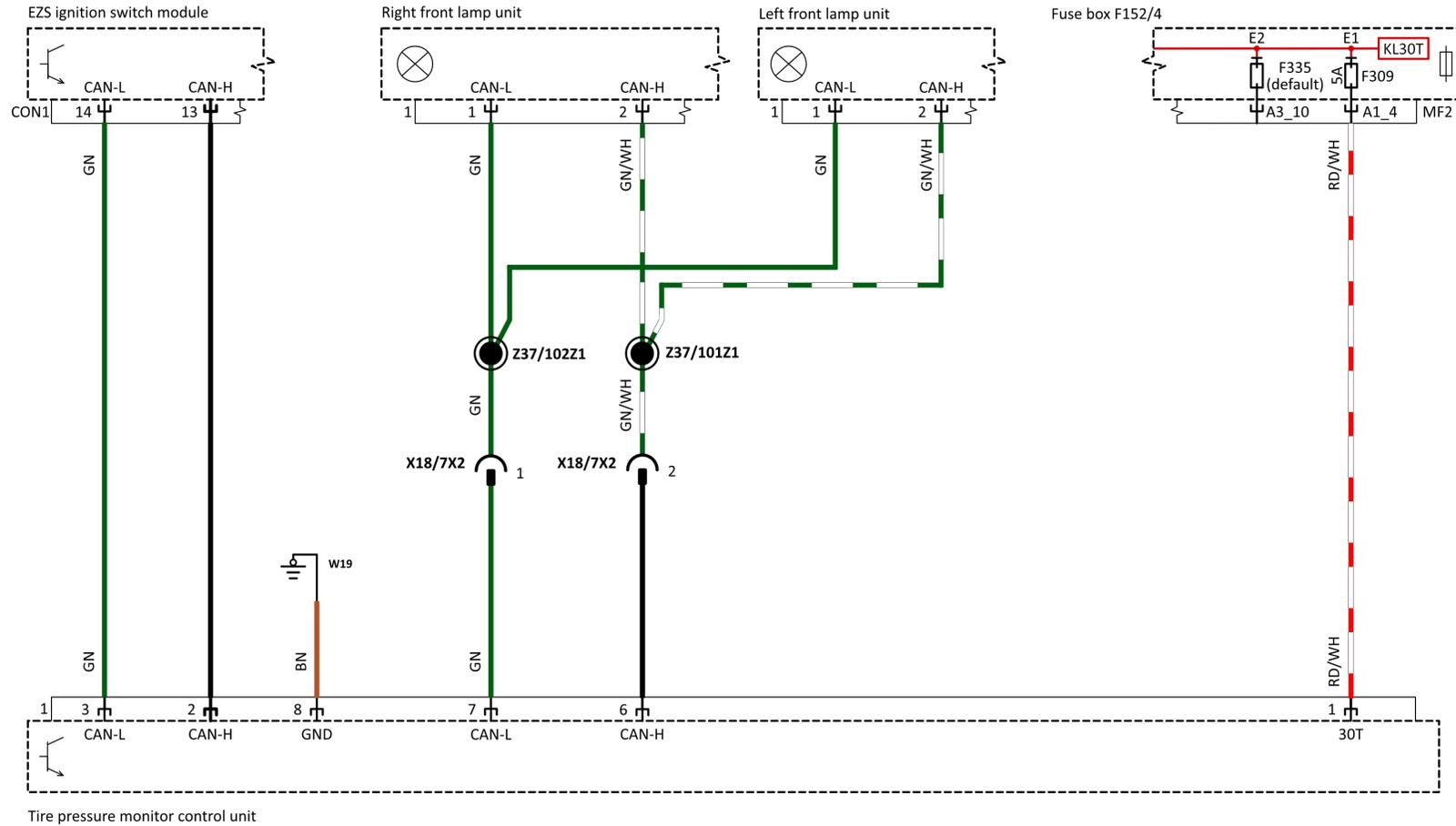


Picture 5 Front side of the Fuse box F152/4



Picture 6 Back side of the Fuse box F152/4

5. Schematic diagrams



Picture 7 Wiring connections (before the *Light Effect Module* retrofitting)

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6. Installation process

6.1 Dismantling of interior elements for the Light Effect Module installation

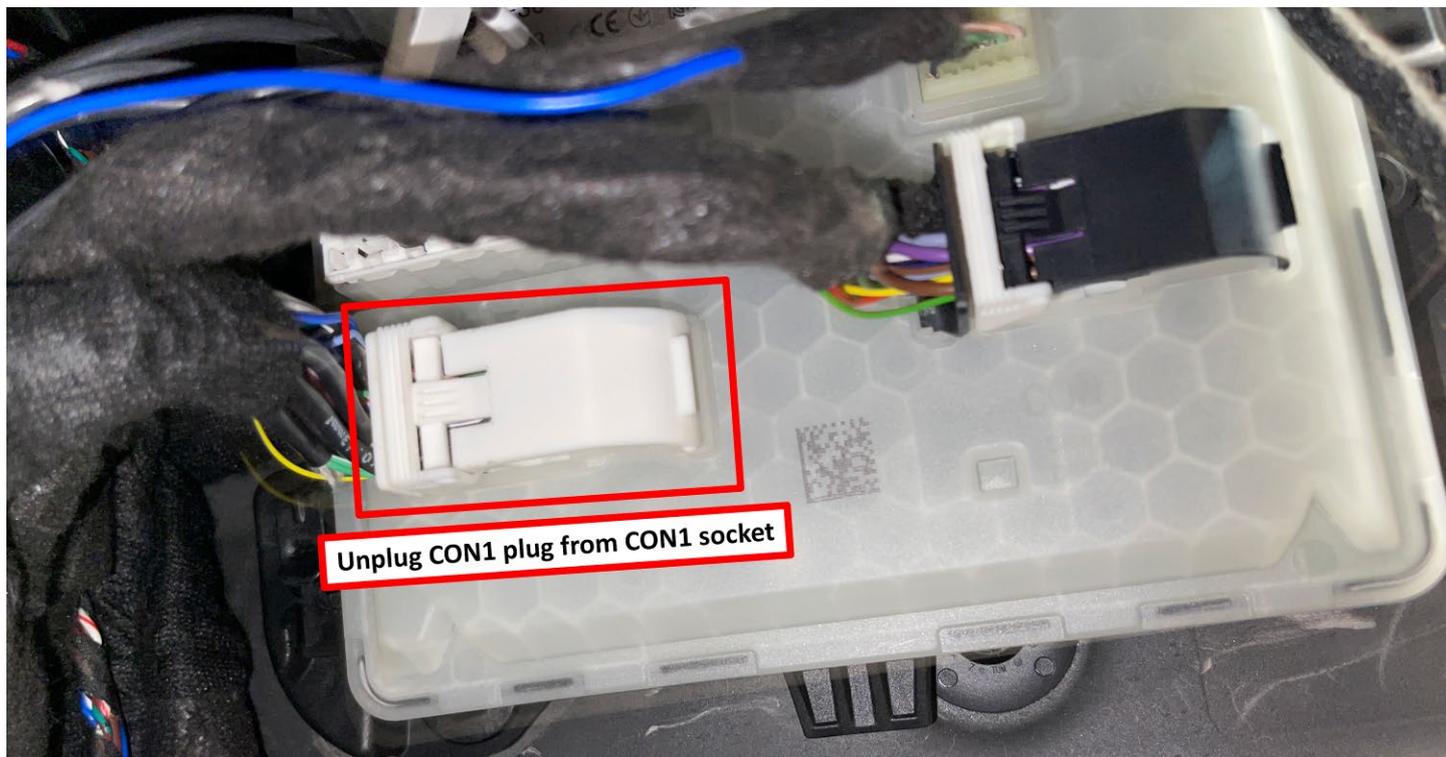


Picture 9

- Move front passenger seat into the end position toward the rear;
- Remove the front door sill (**Picture 9**);
- Remove the dashboard cover on passenger side (**Picture 9**);
- Remove bottom paneling for dashboard on passenger side (**Picture 10**):
 - 1) Remove screws (1);
 - 2) Unclip, detach and lower trim (2) until electrical connectors (3, 4, 5, 6) can be accessed;
 - 3) Disconnect electrical connectors (3, 4, 5, 6);
 - 4) Remove trim (2).
- Bend the floor mat;
- Connect GND from the **Light Effect Module** to vehicle (**Picture 11**).

6.2 Light Effect Module installation

6.2.1 Light Effect Module connection to the EZS ignition switch module



Picture 12

- Unplug **CON1 plug** from **CON1 socket**. Its location is highlighted in picture 3 (**Pictures 3 and 12**).

Wiring diagrams before and after retrofitting are shown on (**Pictures 7 and 8**)

- Remove wires from **CON1 plug** and connect them to **2PIN female connector** (**Picture 7 and Picture 8**) with the following order:

CON1 plug	2PIN female connector
Pin 14	Pin 1
Pin 13	Pin 2

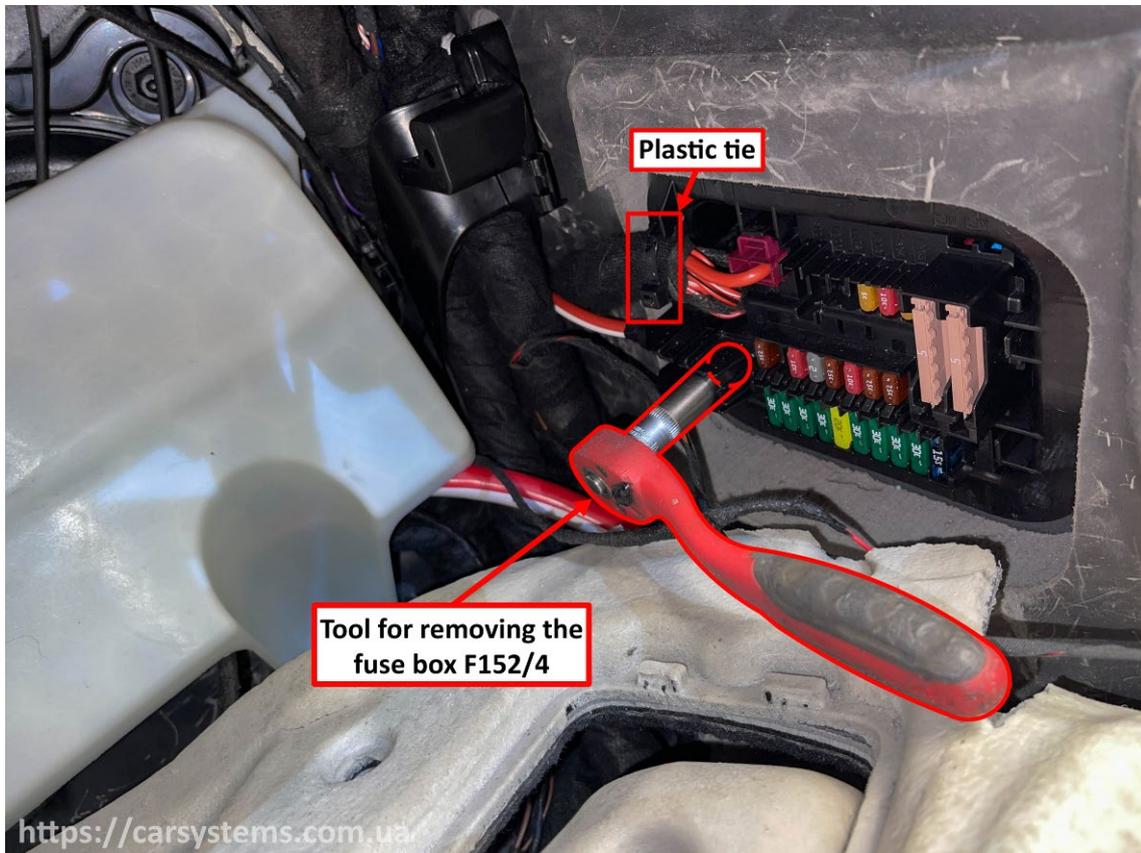
- Connect wires from **Light Effect Module** to **CON1 plug** (**Pictures 7 and 8**) with the following order:

Light Effect Module	CON1 plug
Green (GN)	Pin 14
Green-white (GN/WH)	Pin 13

- Lock the **2PIN female connector** in **2PIN male connector**.

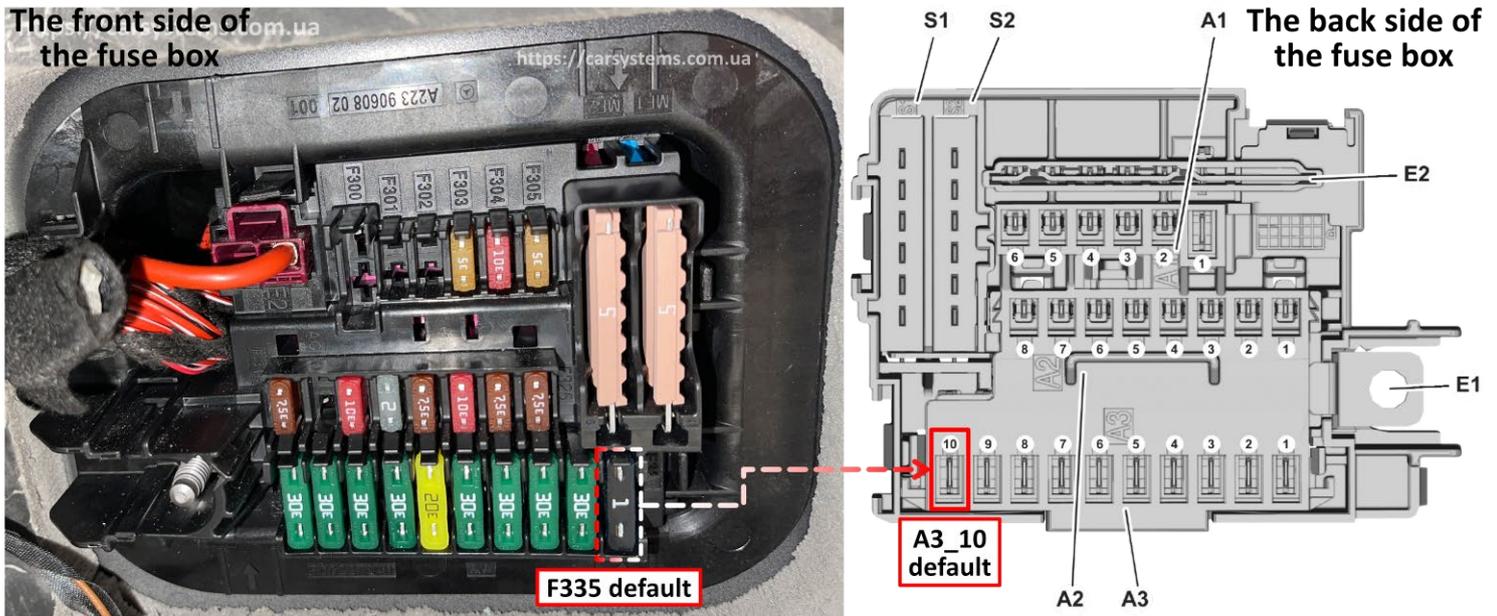
6.2.2 Power wire 12 volts connecting from the Light Effect Module to the fuse box F152/4

- Cut off the plastic tie and unscrew the screw of the power terminal



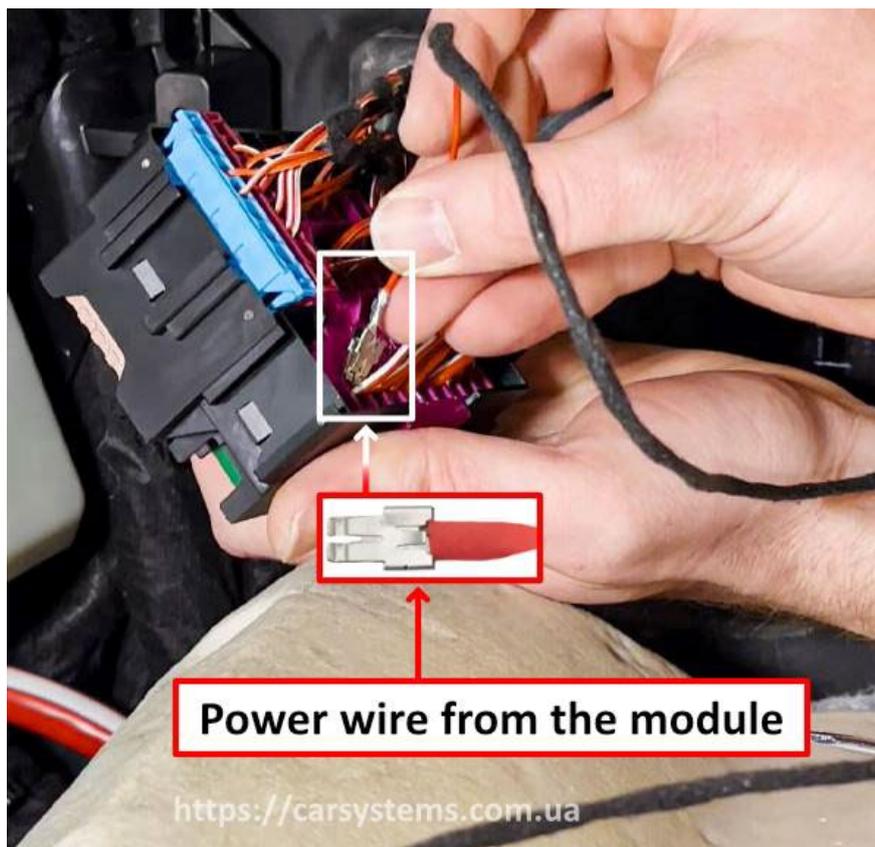
Picture 14

- Remove the fuse box F152/4.



Picture 15 The front side and the back side of the fuse box F152/4

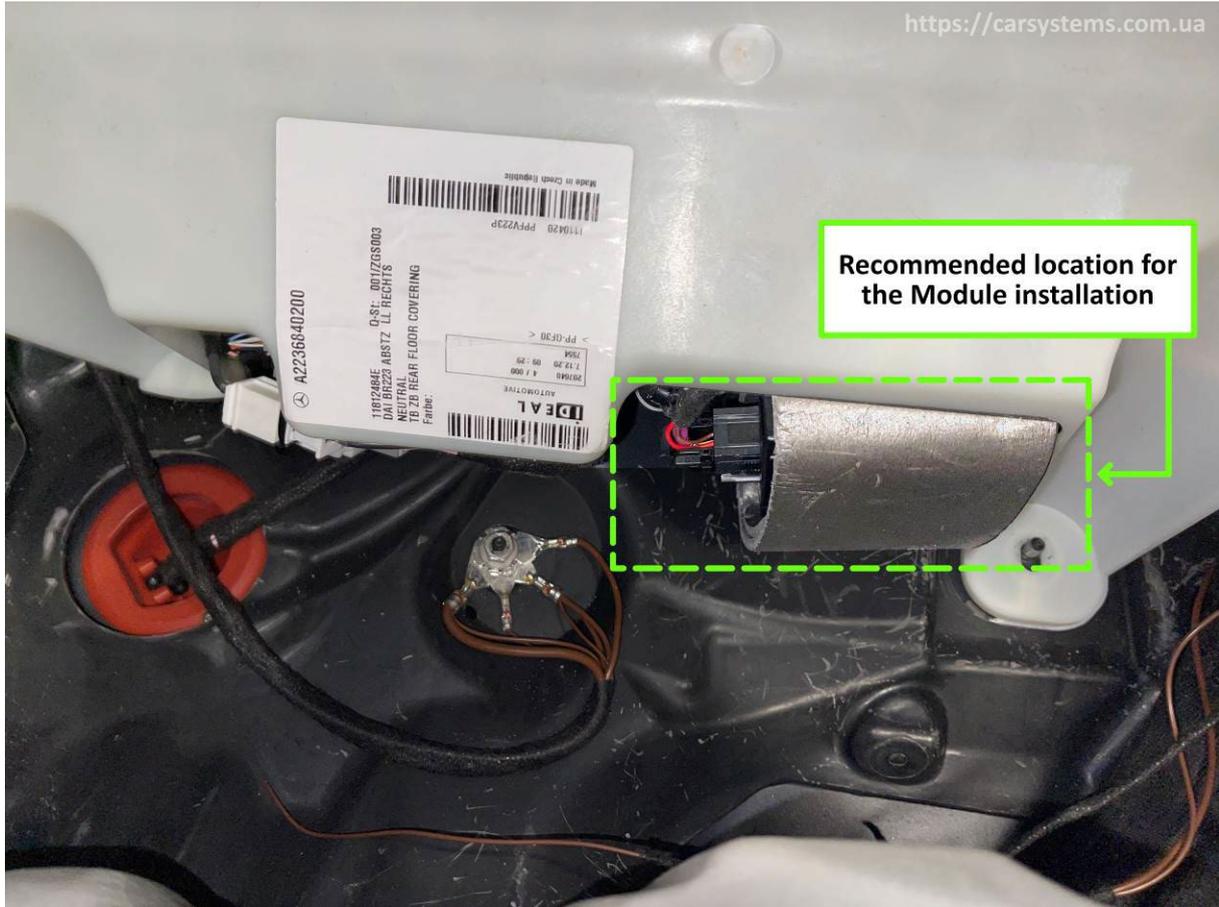
- Install **2Amps FUSE (from delivery kit)** in **F335 (default)** and plug **power wire 12 volts** from the **Light Effect Module** in **A3_10 (default) (Terminal 30t)**.



Picture 16 Power wire 12 volts connection (from the Light Effect Module)

- Put the fuse box F152/4 in place (Picture 14), fix the power wires with a plastic tie (Picture 14), tighten the screw (Picture 14).

6.3 Light Effect Module location



Picture 17

7. Strobe activation/deactivation

Attention! The use of a stroboscope on public roads may be prohibited in your country. Use this feature at your own risk. The manufacturer and the seller are not responsible for any direct or indirect damage caused as a result of using this function.

Use the high beam flashing lever to turn on the strobe. The stroboscope will flash as long as you hold the lever.

8. Our contacts



Email: support@carsystems.com.ua



Phone: [+38 \(096\) 809-00-11](tel:+380968090011)



Skype: [carsystems.support](https://www.skype.com/add?contact=carsystems.support)



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Telegram: [@CarSystems_Support](https://www.telegram.me/carsystems_support)

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