



MB G-Class Light Effects Module

Installation Guide

Contents

Warning	3
Preface	4
Audience	4
Pre Installation Skills	4
Point location	5
Module connection points	6
Wiring harness	7
Module installation	8
Front roof spoiler high beam additional lamp connection	11
Strobe activation/deactivation	12
Software. Main features	13
Software. Main menu	14
Software. Submenu Lock/Unlock car config	15
Software. Submenu Animation library	16
Software. Submenu Spot light	17
Software. Submenu Club strobe	17
Software. Submenu Settings	17
Application and headlights limitation	18
Pixels matrix limitations	19
Text scrolling limitation	20
Package list	20
Contacts	21

WARNING

This device is designed solely for use by properly trained and qualified automotive electronics experts, who are familiar with the dangers related to handling electrical equipment and systems. This manual intends to serve as a guide in the installation of an adapter, failure to follow these instruction could result in a hazardous condition, destruction of car equipment and the retrofit adapter.

DISCONNECT ANY CHARGING EQUIPMENT BEFORE INSTALLATION AND CODING:

car battery charger, notebook charger, etc.

There are **NO** user serviceable parts contained in a retrofit adapter. Unscrewing or opening your adapter will render your warranty void. Should your retrofit adapter require repair, please contact us directly and we will assist you.

The manufacturer shall not be legally responsible for any equipment damage or personnel injury caused by incorrect installation by unqualified technicians.



Preface

This document will help you install the MB G-Class Light Effects Module in Mercedes Benz G-Class

Audience

This document is intended for CarSystems customers, partners, and employees to get familiar with MB G-Class Light Effects Module. It provides instructions and graphical content for a user to get started with his first installation.

Pre Installation Skills

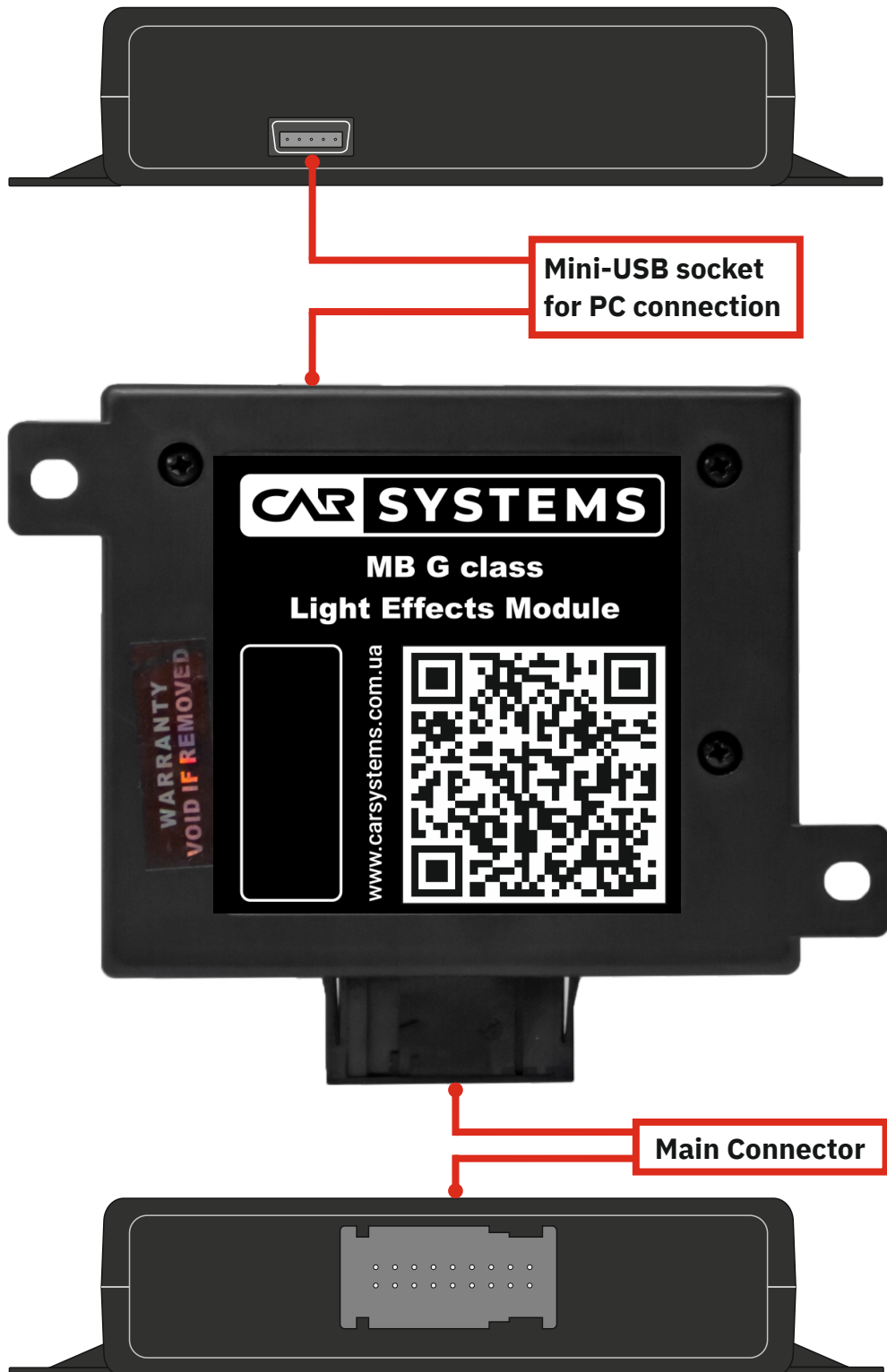
This document expects that you are familiar with automotive electronics, knowledge and experience in that field. High automotive diagnostic skills are welcome.

PER CAN Potential Distributor, positive point and ground point location

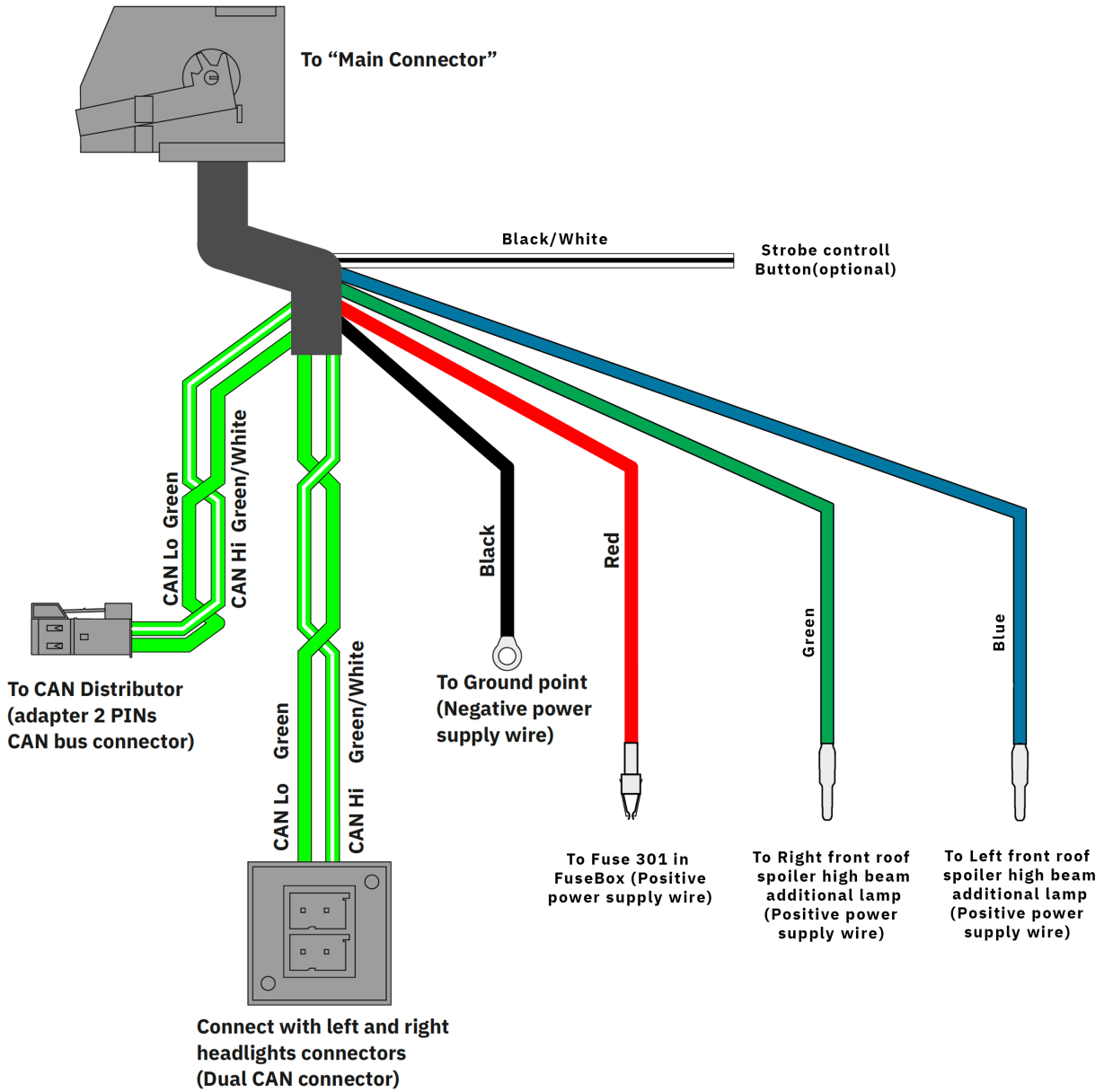
Retrofit adapter connection points - depending on the car body model (see the table below)

Body type	PER CAN Distributor	PER CAN Color	Positive point	Ground point
W463A	X30/27	Green/White Green	Fuse f204 (K40/6)	W29/1

MB G-Class Light Effects Module connection points



Wiring Harness



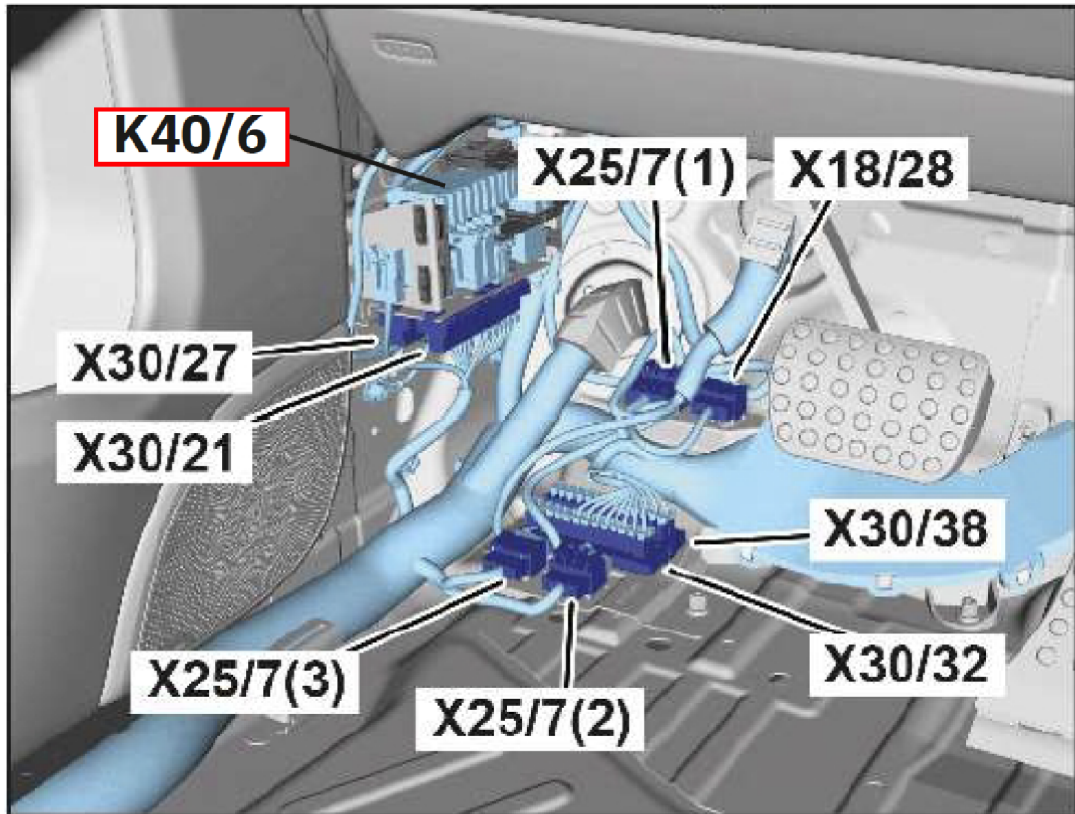
Module installation

When CAN Distributor(X30/27), fuse box(K40/6) and ground point(W29/1) identified, you can start the installation.

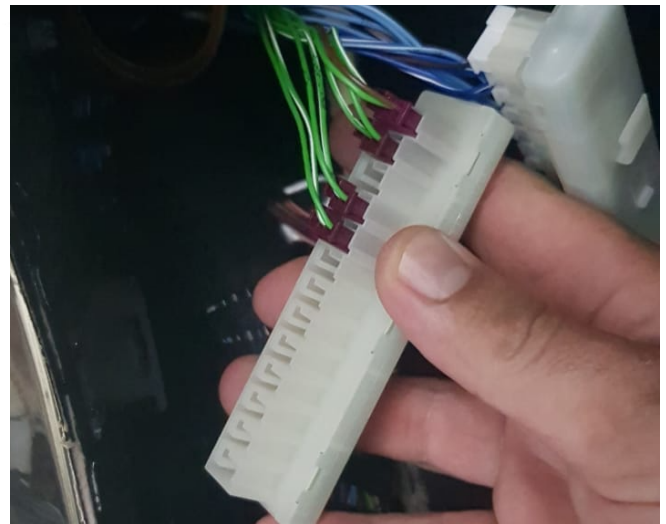
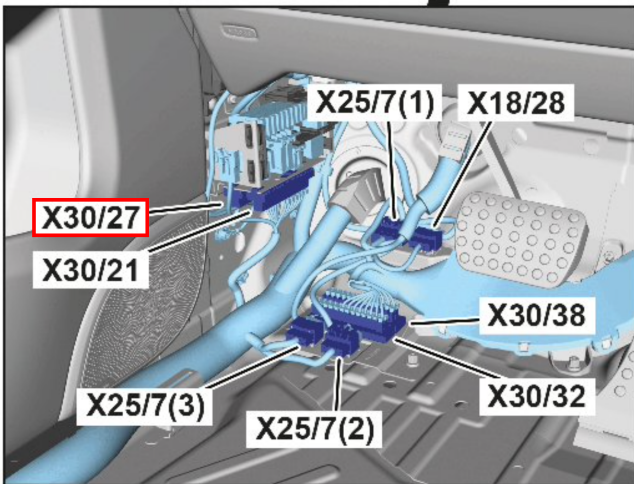
Start with connecting the black wire from the module to the ground point(W29/1)



Connect the red wire to the fuses in Fuse Box(K40/6) and install the fuse(F204) which we supply in the kit



Now you can connect male connector to CAN Distributor (X30/27). Then you should disconnect the Left and Right headlights 2 PINs CAN bus plugs from the Peripheral CAN Distributor(X30/27) and connect to dual connector from the beam effects module. To do this you first need to identify these two headlights CAN bus plugs in the CAN Distributor(X30/27). It is really easy, you need to turn on the ignition and remove one by one 2 PINs plugs from the CAN distributor when the headlight plug is disconnected the headlight without CAN bus connection enters limp-home mode and the headlight low beam start to illuminate. When 2 headlights connectors are identified you can connect them to a dual connector from the adapter.

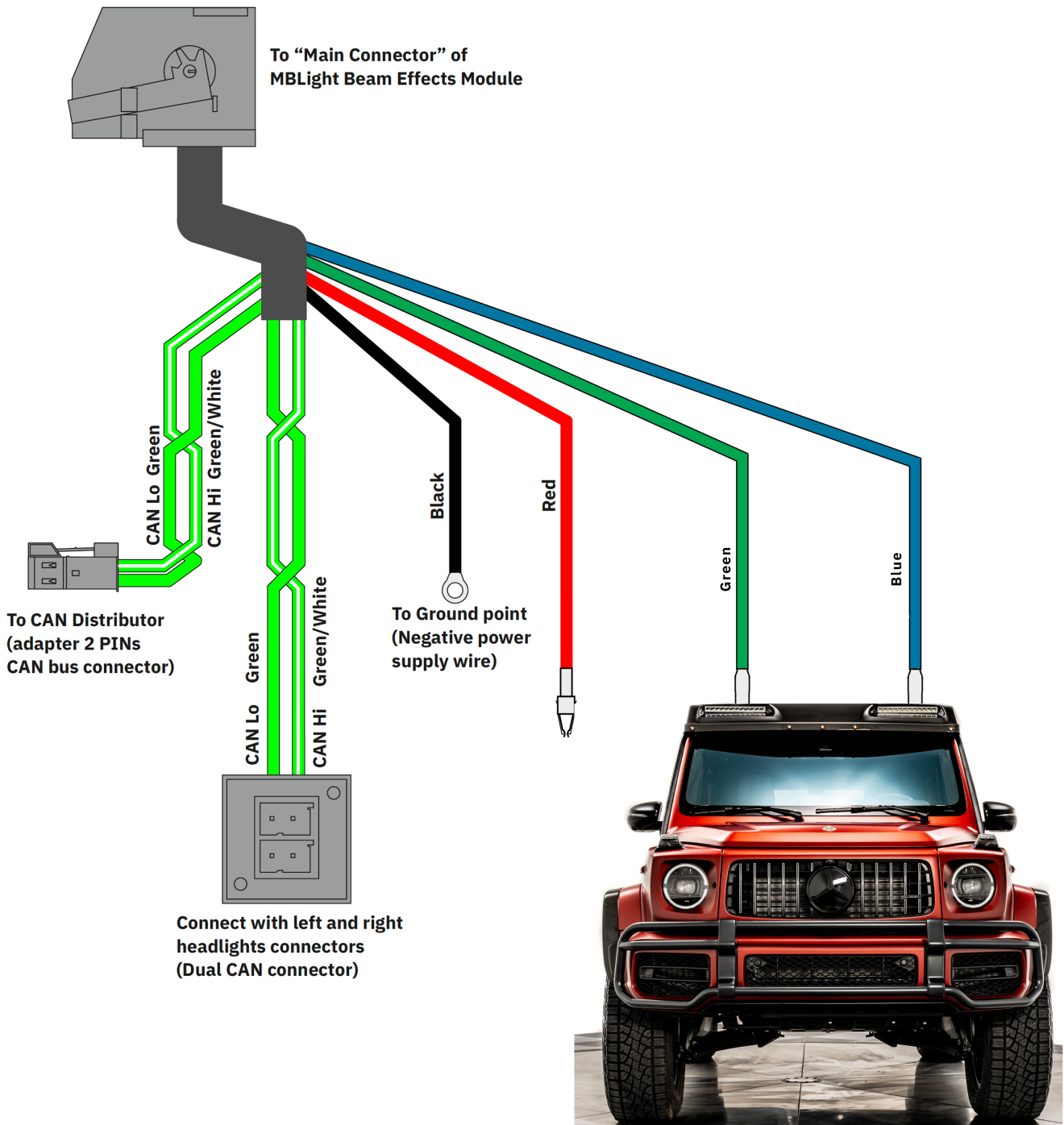


CAN Distributor

Front roof spoiler high beam additional lamp connection

Connect Right roof lamp to power supply (green wire) from the MB G-Class Light Effects Module.

Next connect Left roof lamp to power supply (blue wire) from the MB G-Class Light Effects Module.



Roof high beam lamp to MB G-Class Light Effects Module connection scheme

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.



- 1. Press and hold the hang up button (on the steering wheel) to enter the strobe mode.**
- 2. Use the high beam flashing lever to turn on the strobe. The stroboscope will flash as long as you hold the lever.**
- 3. To exit the strobe mode, press and hold the hang up button.**

Software. Main features.

We provide MBLight software for iOS10 and above.

With the MBLight app you'll get the most of your multibeam headlights! Custom animation and light effects - configured and controlled from your phone.

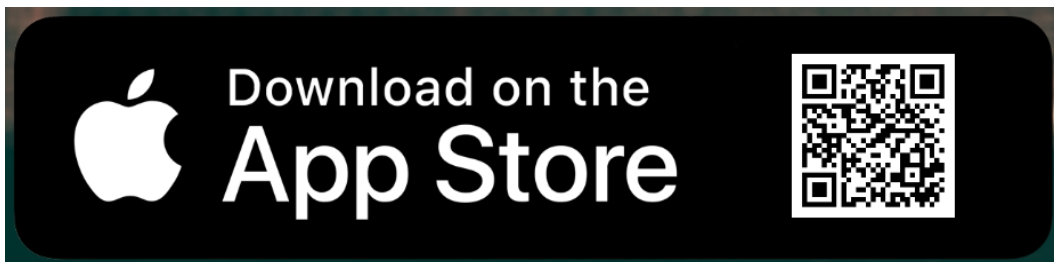
With MBLight app you can:

- **Select the text animation that will be played when you lock the car**
- **Select the text animation that will be played when you unlock the car**
- **Select a custom animation that will be played when you lock the car**
- **Select a custom animation that will be played when you unlock the car**
- **Select an animation from the animation library**
- **Create your own animation**
- **Edit animation**
- **Use the spotlight function**

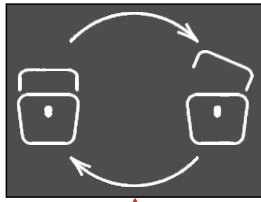
You can download this application by link:

<https://apps.apple.com/app/mblight/id1534711306>

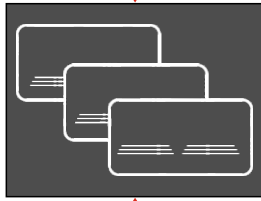
or with QR-code:



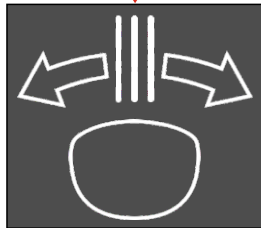
Software. Main menu.



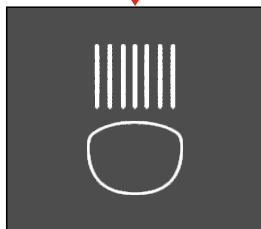
Lock/Unlock car config



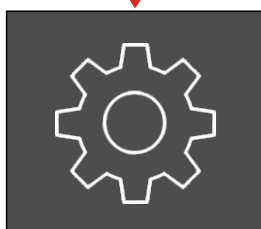
Animations library



Spot light

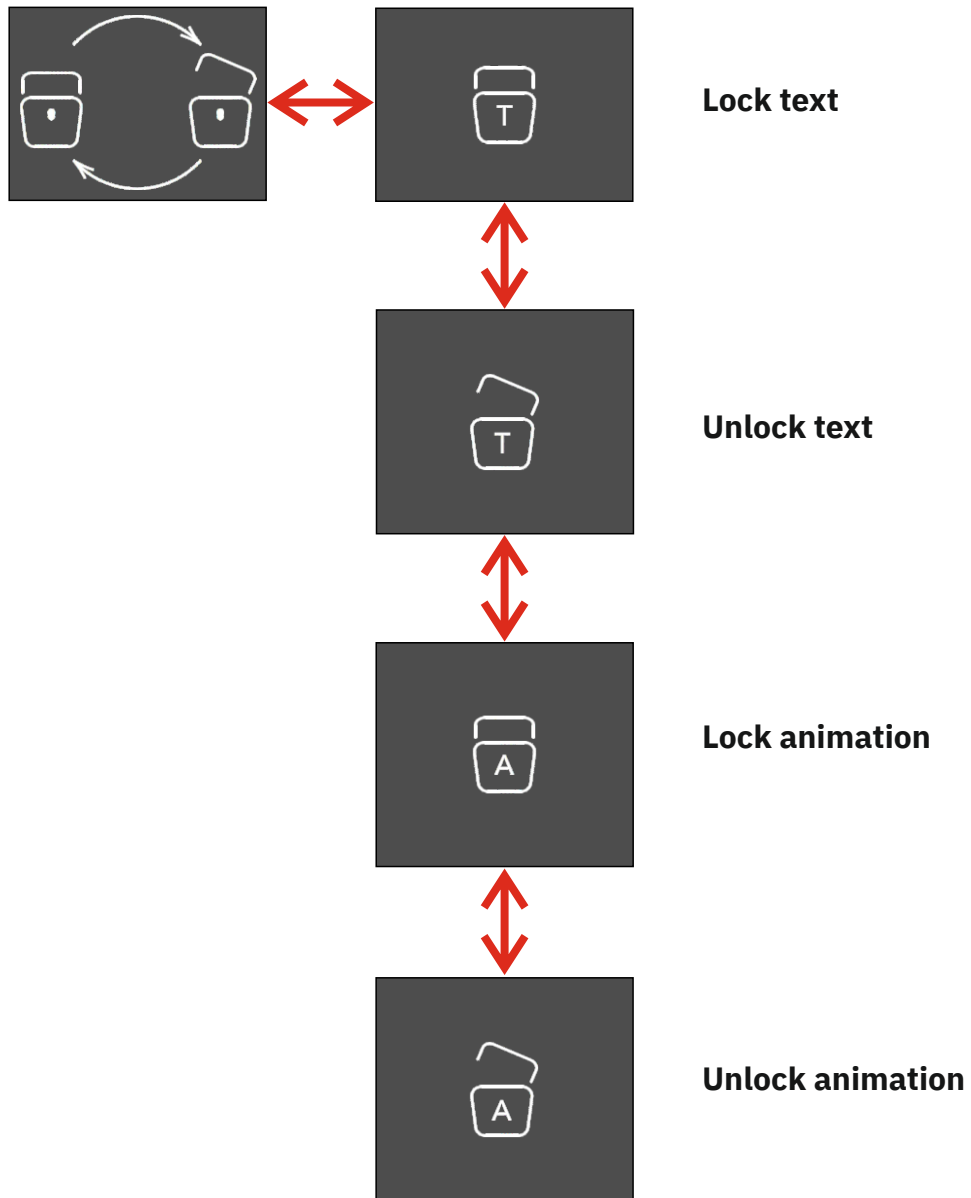


Club strobe

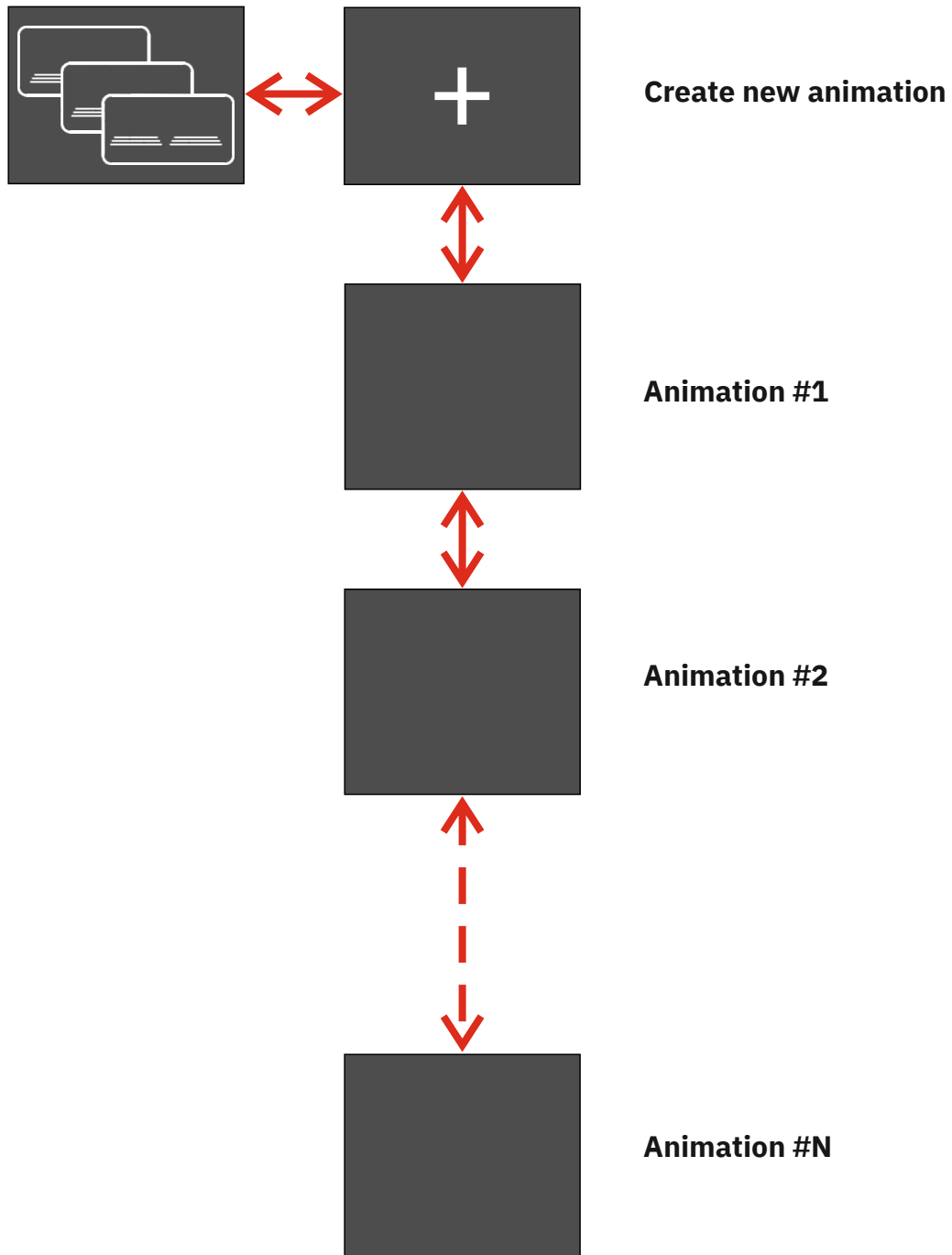


Settings

Software. Submenu Lock/Unlock car config.



Software. Submenu Animation library.



Software. Submenu Spot light.



Software. Submenu Club strobe.



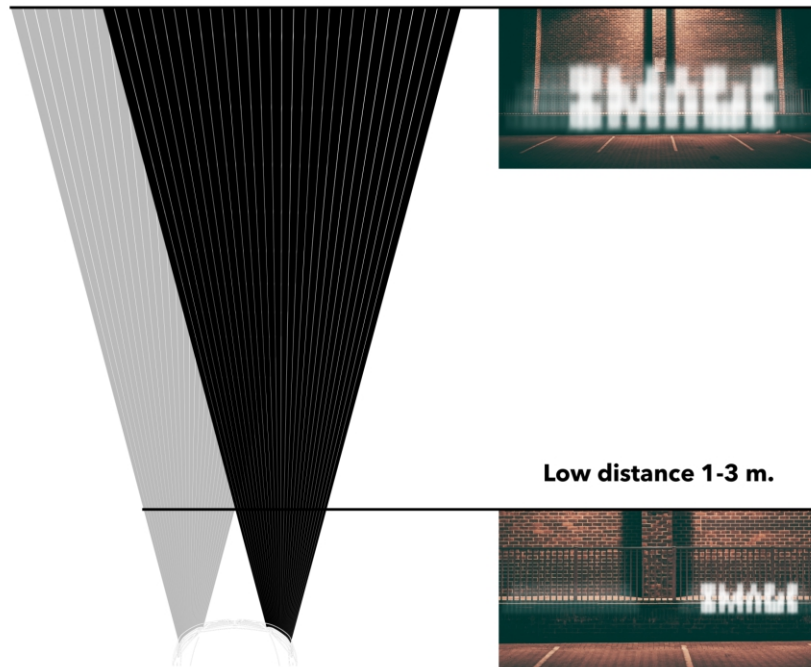
Software. Submenu Settings.



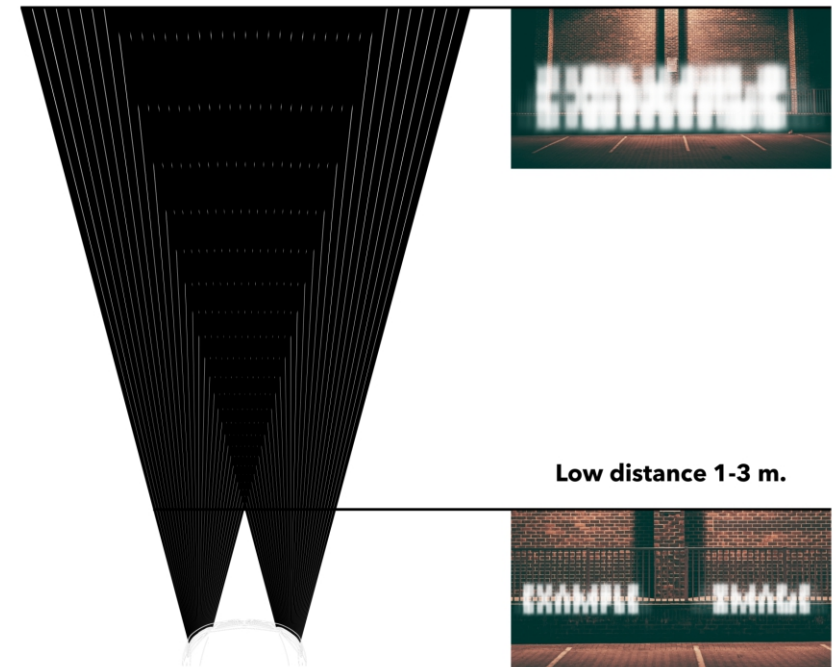
Application and headlights limitations

The quality of the animation depends on the distance between the front of the car and the wall. Also, the quality of the animation is affected by the simultaneous use of headlights. Better to use them one at a time.

Use only right light animation:

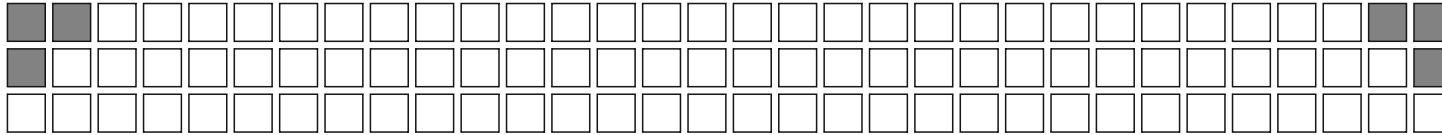


Use both lights animation:



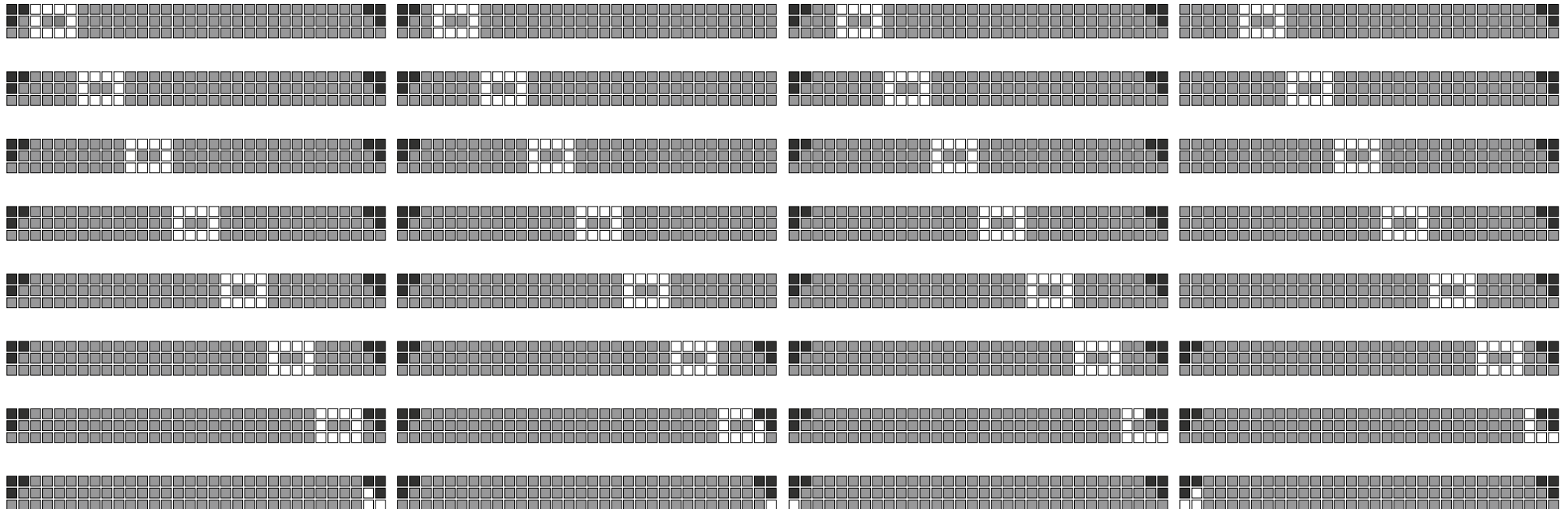
Pixels matrix limitations.

Image from every headlight consist of pixels matrix (32 x 3). 3 pixels on each side are not available.



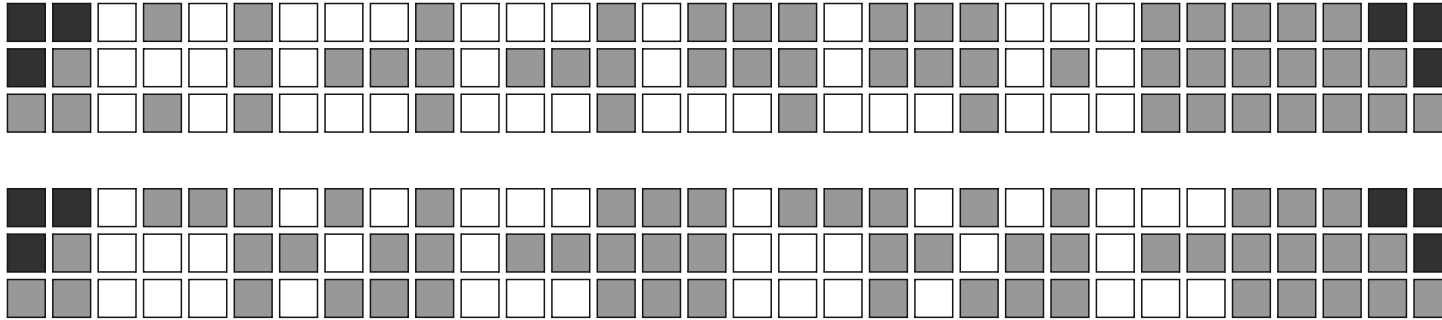
Animation limitations.

Animation is only 32 frames for each video scene.



Text scrolling limitations.

Scrolling text length is 15 symbols in lock and unlock mode.



Package list

1. MB G class Light Effects Module module - 1pcs
2. Wiring harness - 1pcs
3. Fuse - 1pcs

Contacts



Mail: support@carsystems.com.ua



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



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



Viber: [+38 \(096\) 809-00-11](https://www.viber.com/add?contact=+380968090011)



Telegram: [@CarSystems_Support](https://www.telegram.com/add?contact=@CarSystems_Support)

We provide technical support during our working hours:

**Monday to Friday (except public holidays),
from 10:00 to 19:00 (UTC+2:00).**

Due to the increasing amount of unsolicited emails we tightened anti-spam. If your letter has not been delivered, please contact us via Skype or through the inquiry form in our website **carsystems.com.ua**

