



Mercedes Benz W217 OLED Tail Lights Retrofit Adapter

Installation Guide

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 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 the retrofit adapter. Unscrewing or opening your adapter will render your warranty void. If your retrofit adapter require repair, please contact us directly and we will assist you.

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



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Preface

Mercedes Benz W217 OLED Tail Lights Retrofit Adapter is designed for retrofitting Tail Lights with PRE LCI Mercedes Benz W217.

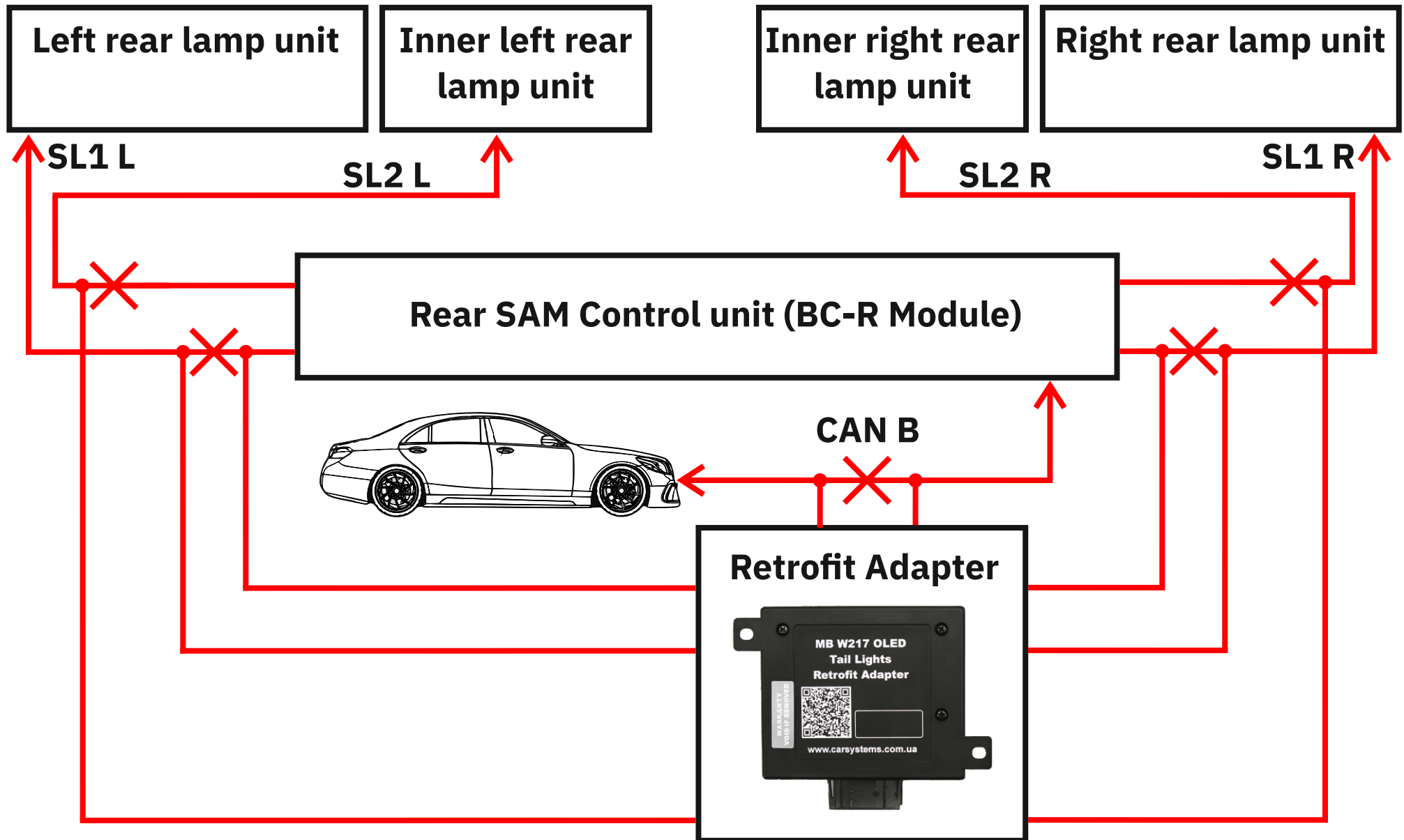
Audience

This document is intended for CarSystems customers, partners, and employees to get familiar with Mercedes Benz W217 OLED Tail Lights Retrofit Adapter. It provides instructions and graphical content for a user to get started with his first installation.

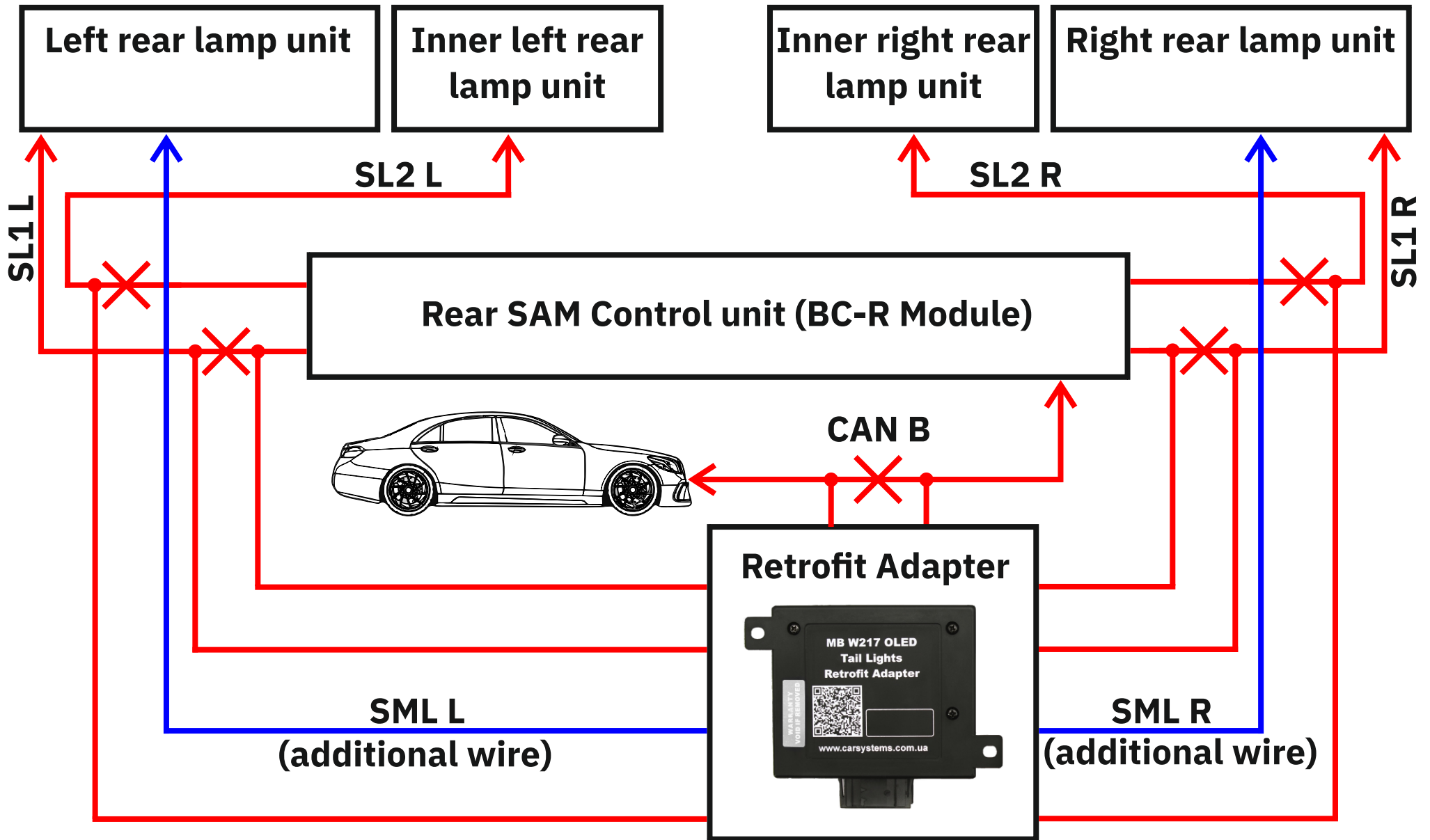
Pre Installation Skills

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

Facelift Block Diagram for ECE cars



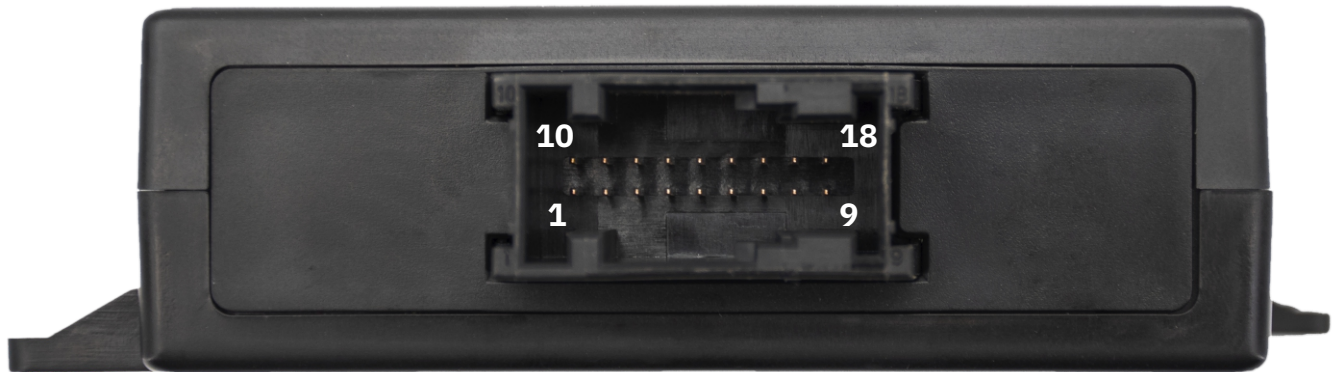
Facelift Block Diagram for USA cars



MB W217 OLED Tail Lights Retrofit Adapter connection points

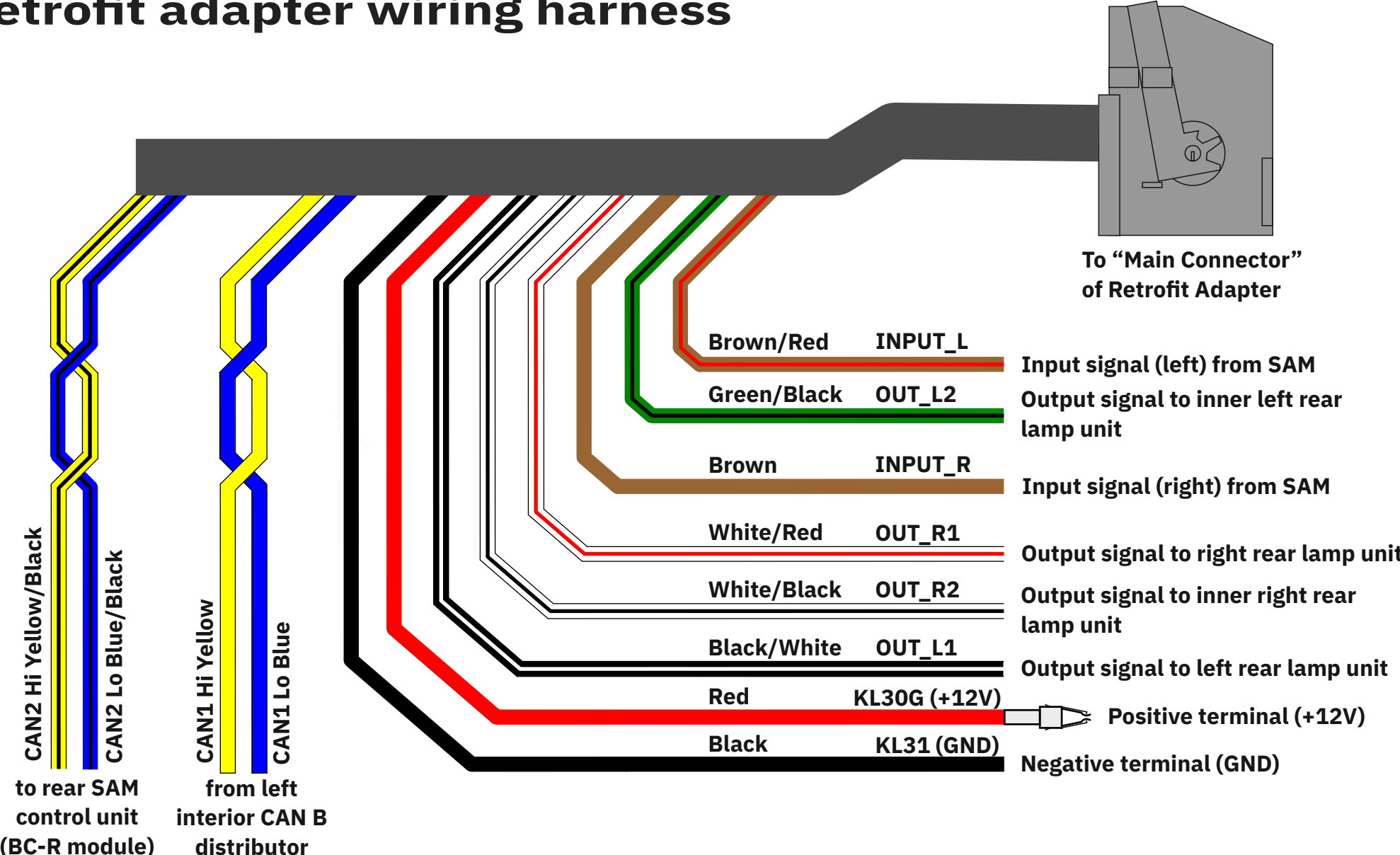


Retrofit Adapter main connector pinout



Pin	Pin name	Wire color	Description
1	KL31	black	Negative terminal (GND)
10	KL30G	red	Positive terminal (+12V)
8	CAN1	Hi	CAN Hi from left interior CAN B distributor
17		Lo	CAN Lo from left interior CAN B distributor
9	CAN2	Hi	CAN Hi to rear SAM control unit (BC-R module)
18		Lo	CAN Lo to rear SAM control unit (BC-R module)
6	INPUT_L	brown/red	Input signal (left) from SAM
4	OUT_L1	black/white	Output signal to left rear lamp unit
5	OUT_L2	green/black	Output signal to inner left rear lamp unit
15	INPUT_R	brown	Input signal (right) from SAM
2	OUT_R1	white/red	Output signal to right rear lamp unit
3	OUT_R2	white/black	Output signal to inner right rear lamp unit

Retrofit adapter wiring harness



must be connected to the CAN bus break!
See page 5-6.

Rear lamp unit(ECE LCI) connector pinout (harness side)



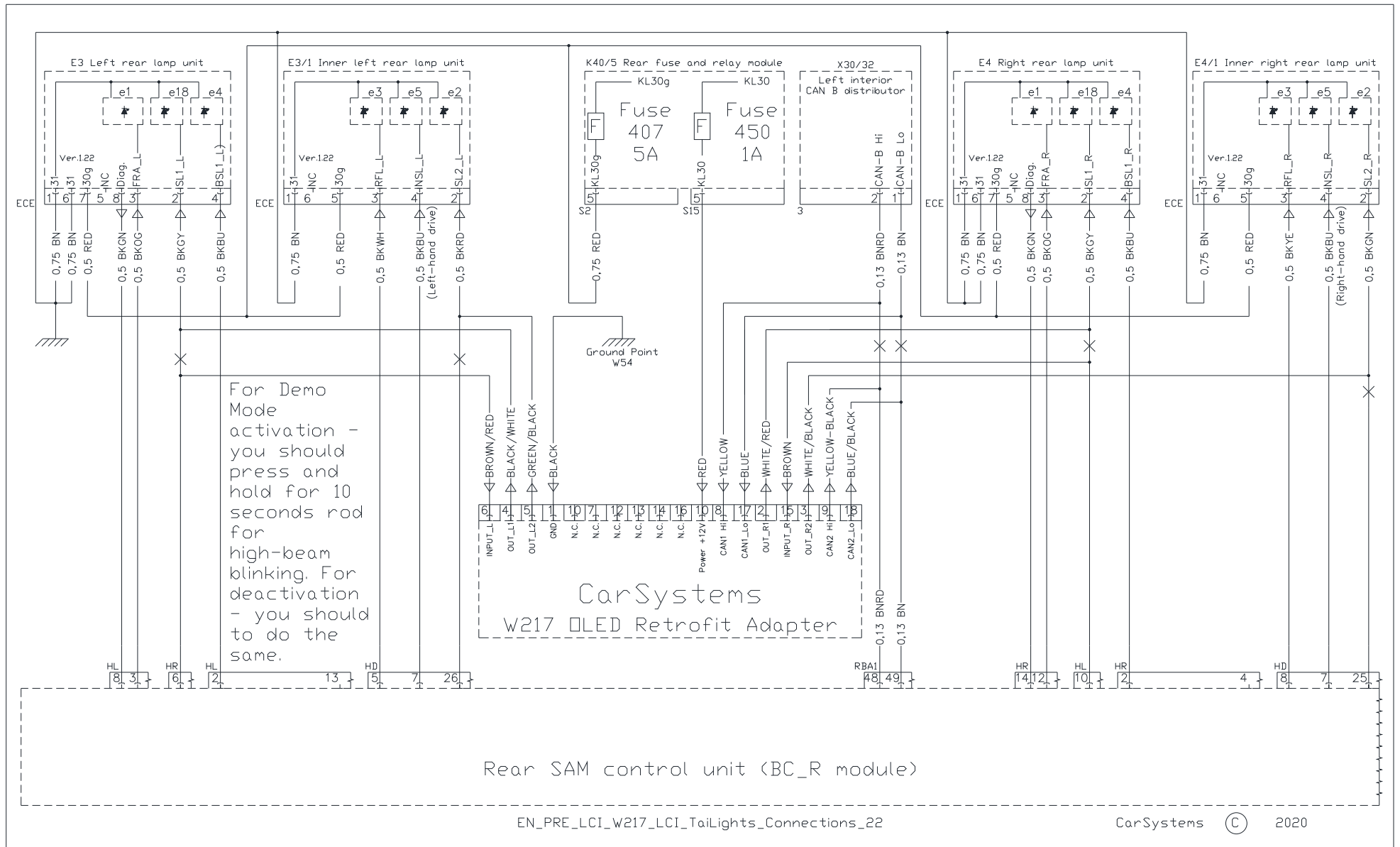
Pin	Left rear lamp unit		Right rear lamp unit	
	Pin name	Wire color	Pin name	Wire color
1	31	brown	31	brown
2	SL1_L	black/grey	SL1_R	black/grey
3	FRA_L	black/orange	FRA_R	black/orange
4	BSL1_L	black/blue	BSL1_R	black/blue
5	N.C.		N.C.	
6	31	brown	31	brown
7	30g	red	30g	red
8	Diag.	black/green	Diag.	black/green

Rear lamp unit(USA LCI) connector pinout (harness side)

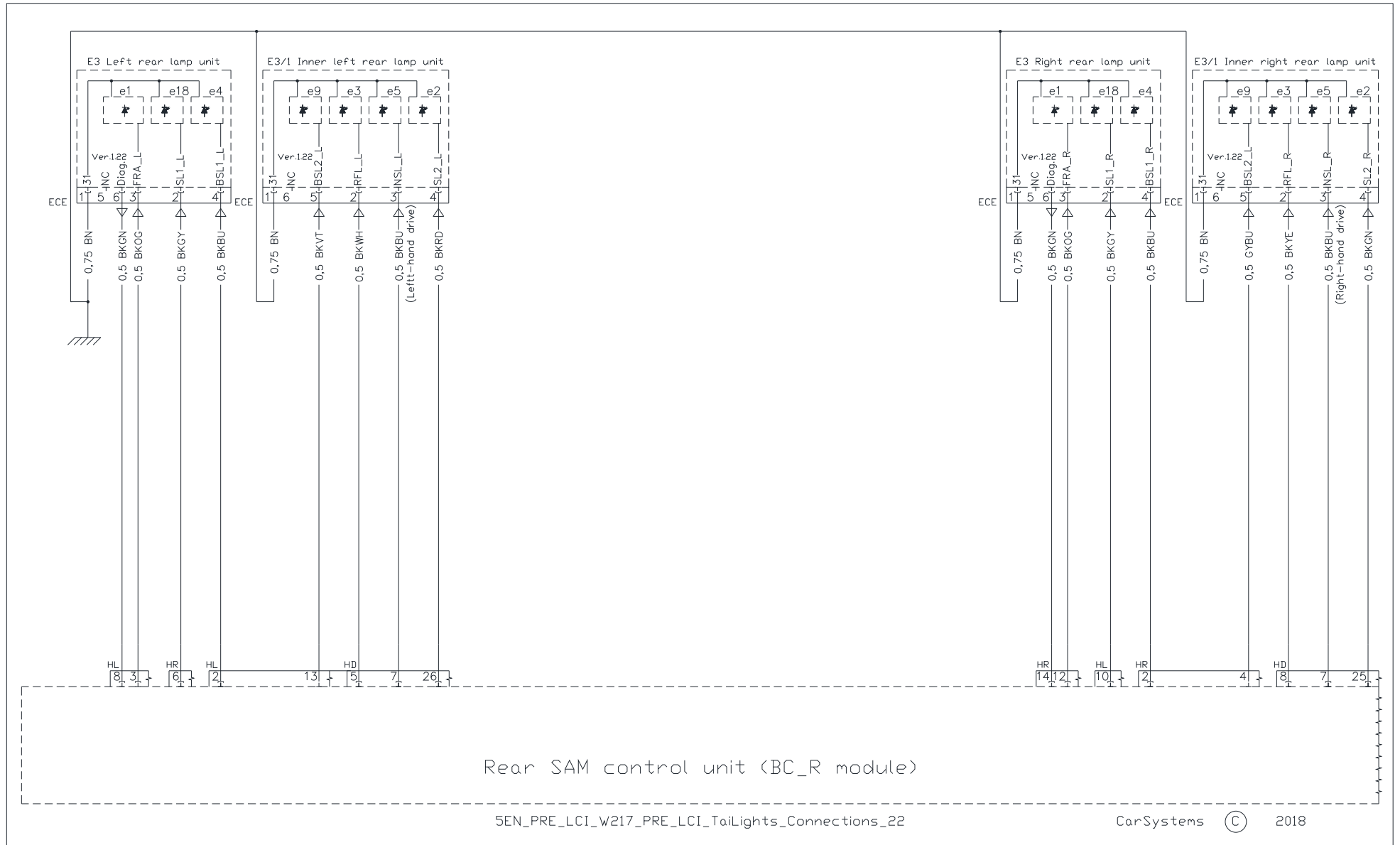


Pin	Left rear lamp unit		Right rear lamp unit	
	Pin name	Wire color	Pin name	Wire color
1	31	brown	31	brown
2	SL1_L	black/grey	SL1_R	black/grey
3	N.C.		N.C.	
4	BSL1_L	black/blue	BSL1_R	black/blue
5	SML_L	black/orange	SML_R	black/orange
6	31	brown	31	brown
7	30g	red	30g	red
8	Diag.	black/green	Diag.	black/green

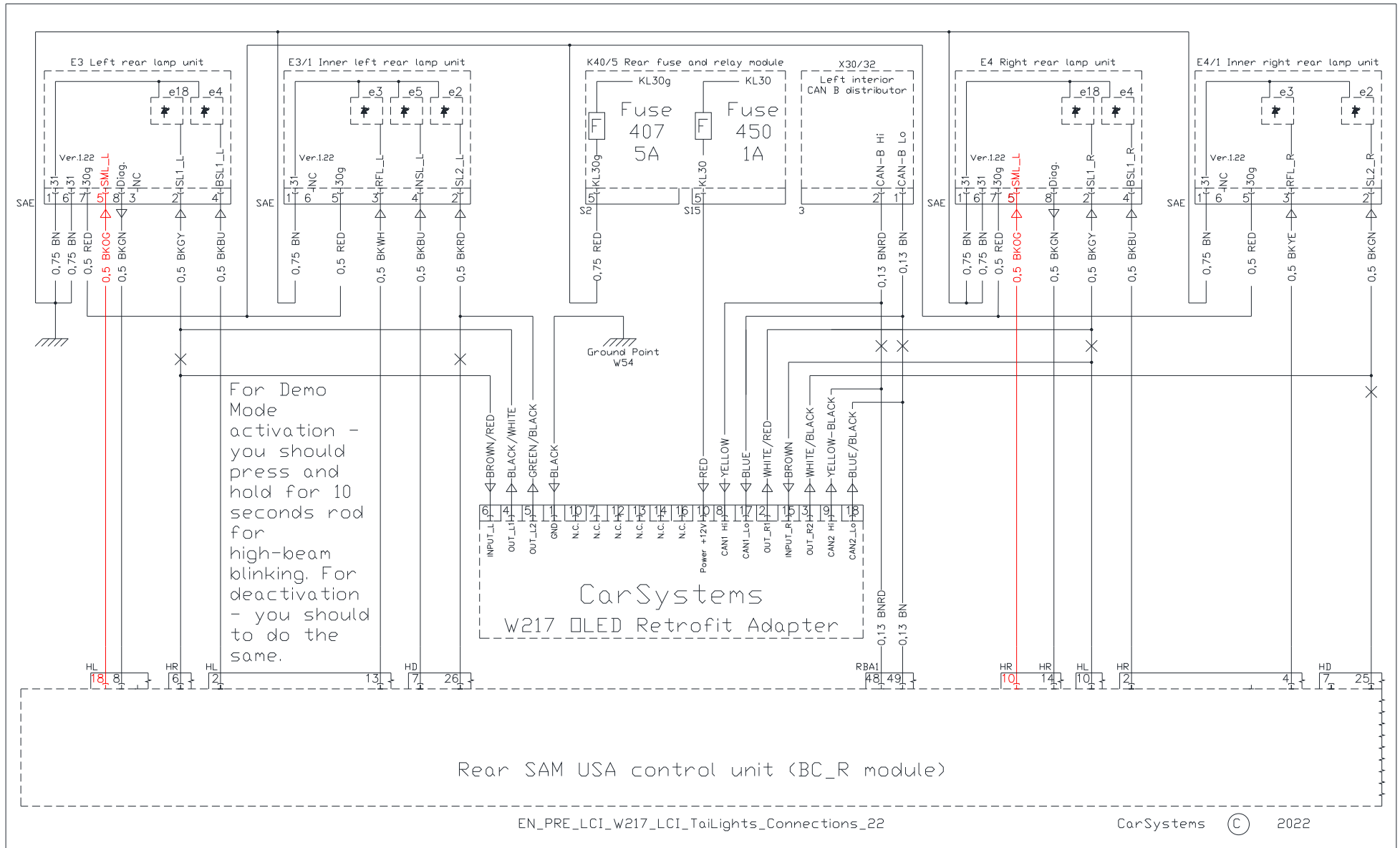
MB W217(PRE LCI) to LCI Tail Lights connections (ECE)



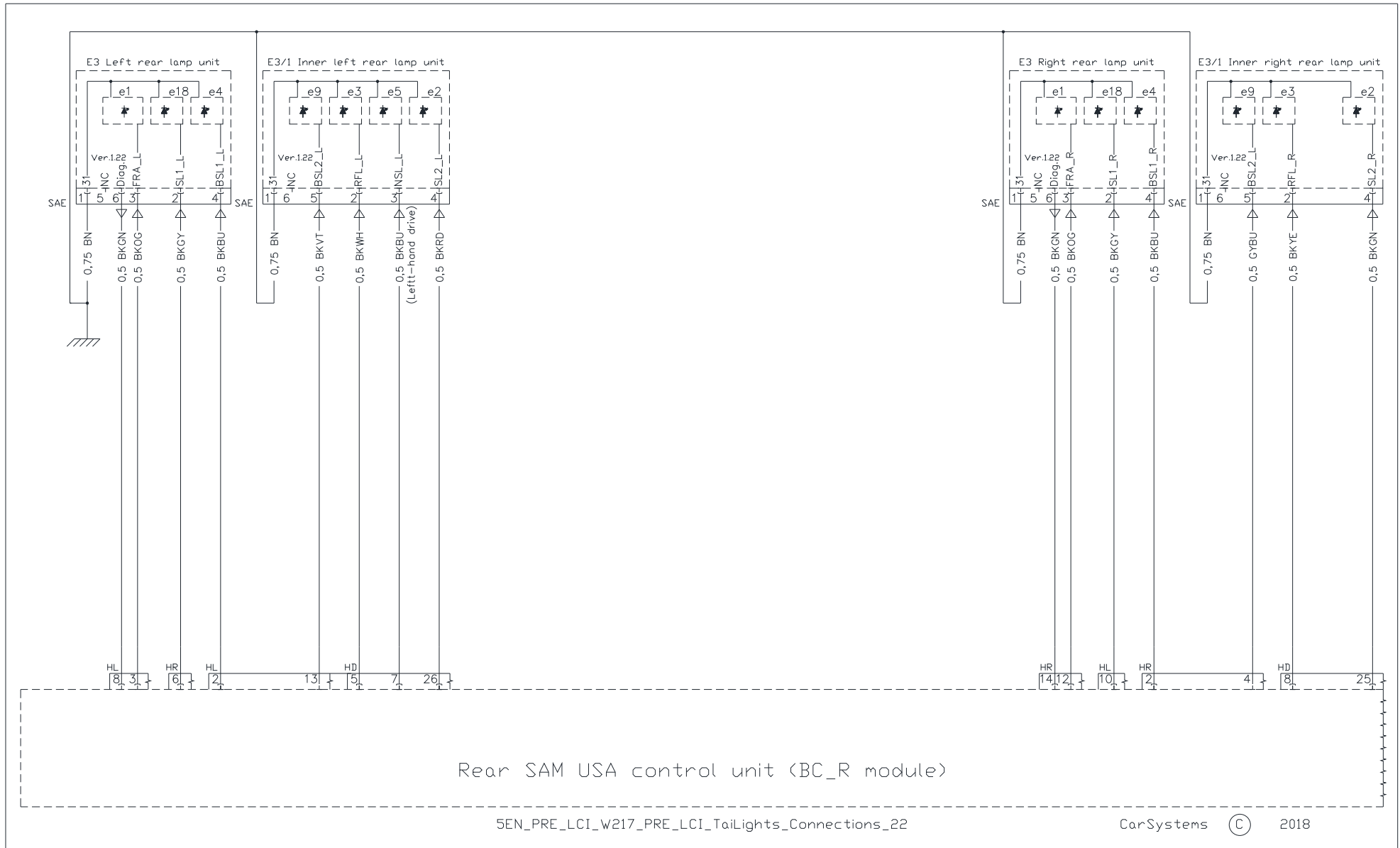
MB W217(PRE LCI) Tail Lights connections (OEM ECE)



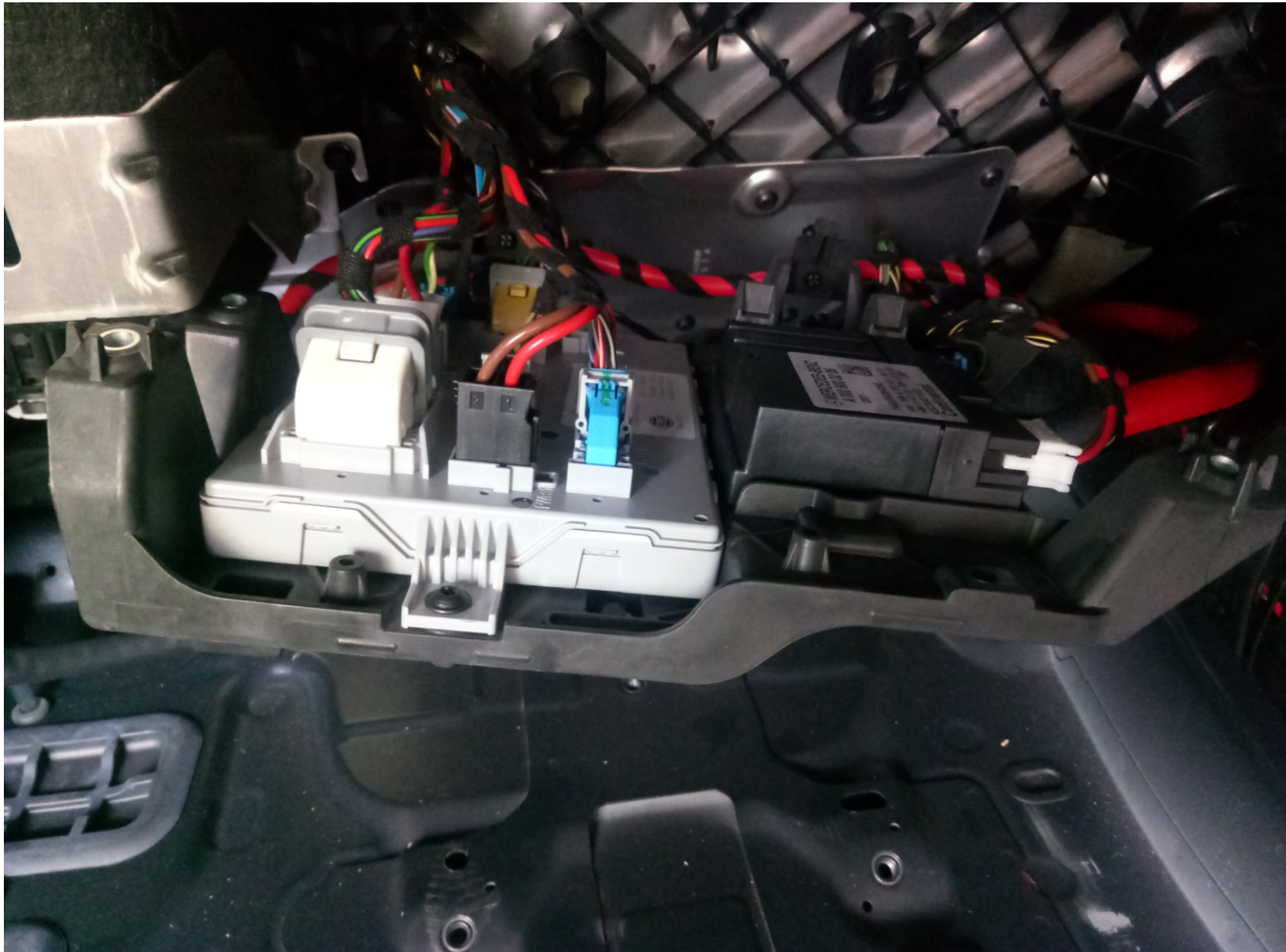
MB W217(PRE LCI) to LCI Tail Lights connections (USA)



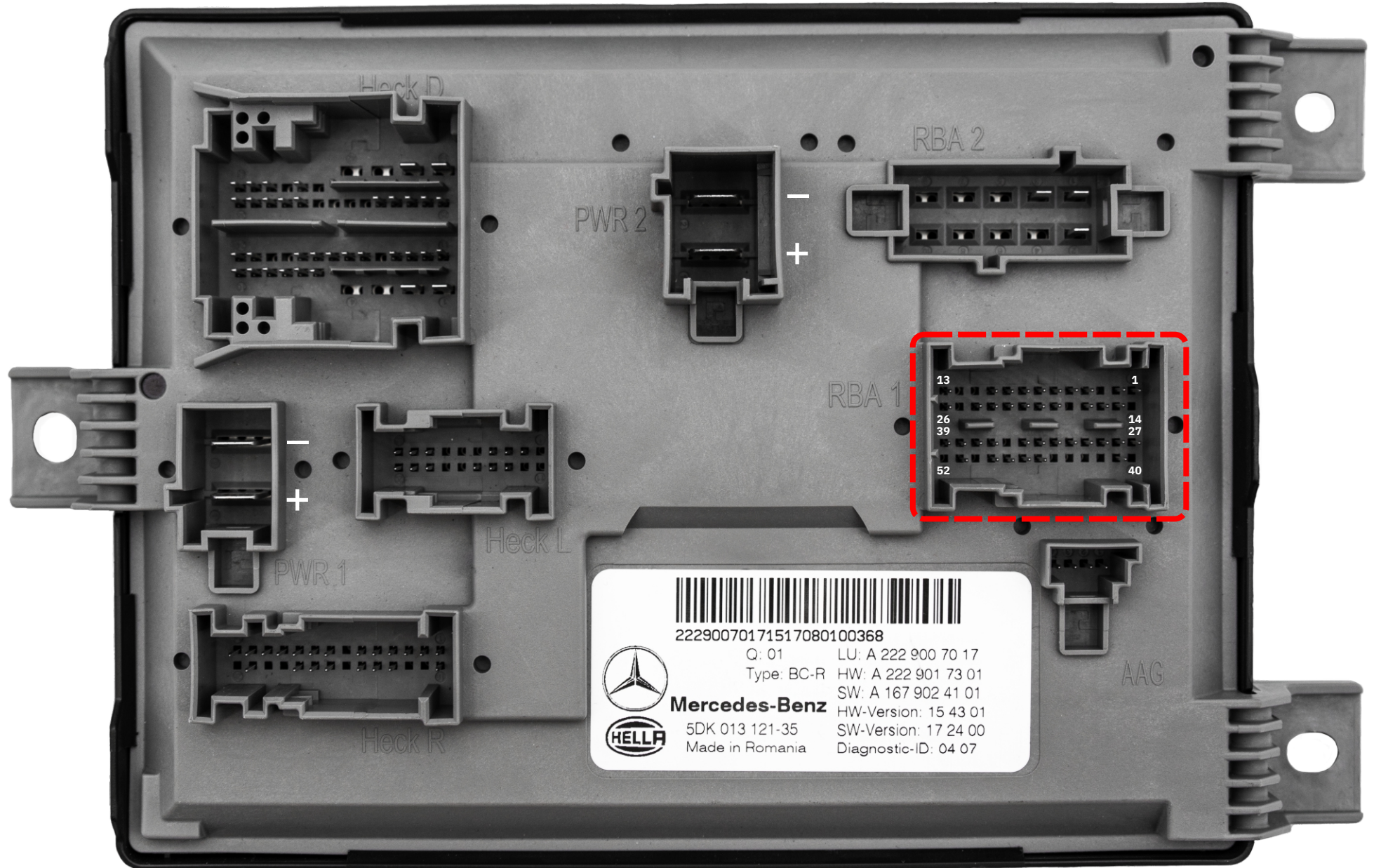
MB W217(PRE LCI) Tail Lights connections (OEM USA)



MB W217 Rear Board Power Control Unit (BC-R) location



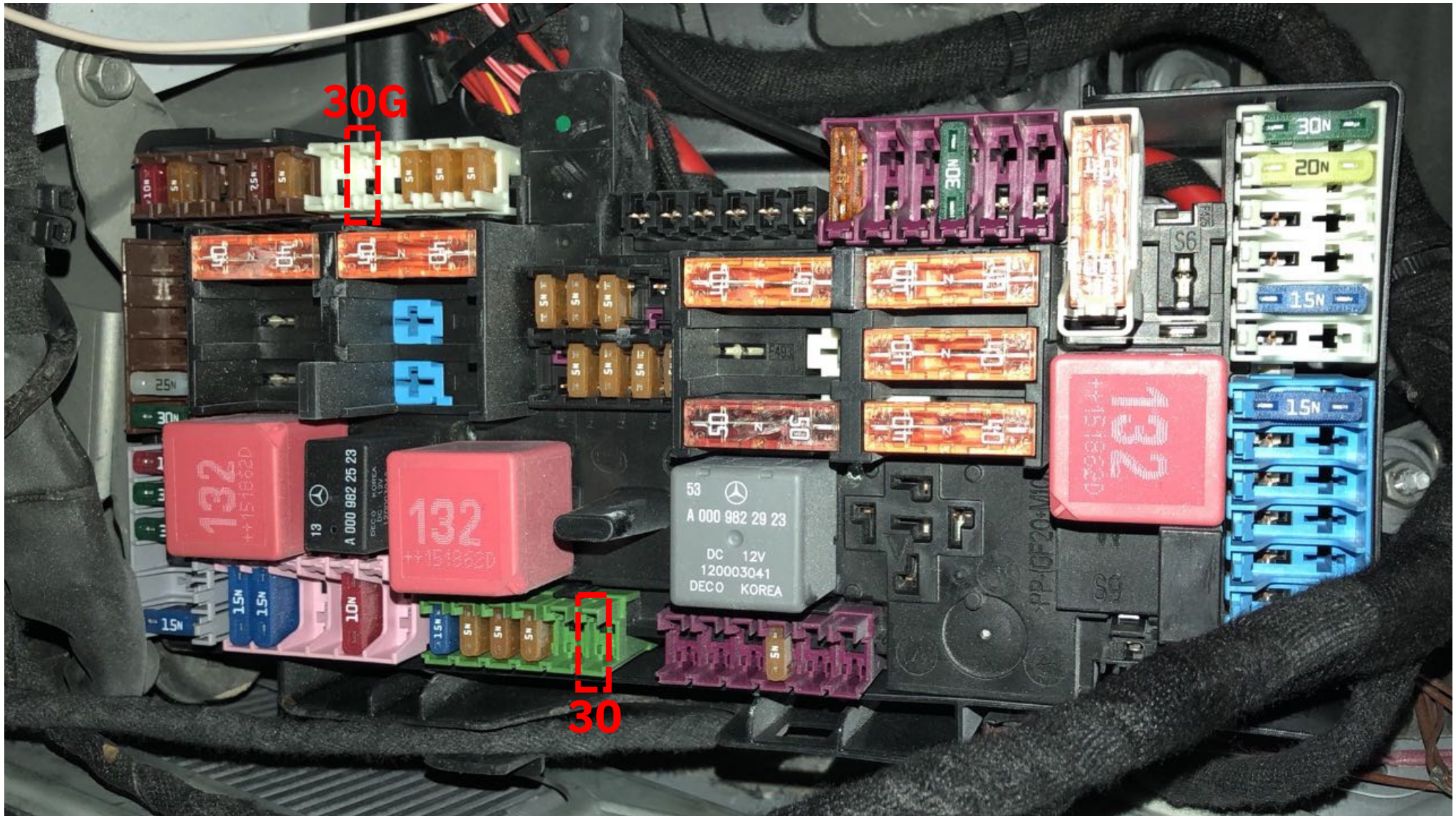
MB W217 Rear Board Power Control unit (BC-R)



MB W217 K40/5 Rear Fuse and Relay module location



MB W217 K40/5 Rear Fuse and Relay module



Preparation for coding

After adapter installation all will work well, only there will be a few errors on the cluster. For erase these errors we have our own special software, so no Xentry system or online SCN coding is needed anymore. You only need to use Windows 7 or 10 PC (English locale, without hieroglyphs, clean English installation) and TeamViewer for remote control. About coding time we need to agree in advance.

Before starting we need to know the following:

1. Car's VIN
2. Tail lights part numbers
3. ECE or USA?
4. What else was retrofitted?

Operability Check

To activate the demo mode, you must press and hold the high beam rod for 25 seconds to blinking. For deactivation - the same.

Package list

1. Mercedes Benz W217 OLED Tail Lights Retrofit adapter - 1pcs
2. Wiring harness - 1pcs
3. Fuse - 2pcs
4. Tail Light connector housing - 2pcs
5. Connectors - 4pcs
6. Rubber seal - 4pcs

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](tel:+380968090011)



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

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**Monday to Friday (except public holidays),
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