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Installation instruction Fog lamps

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General advice

While developing this product, your personal safety combined with the best operating service, modern design and an up-to-date production technique was especially taken into account.

Unfortunately, despite the utmost care injuries and/or damages might occur due to improper installation and/or use.

Therefore please read with great care and completely this operating manual and store it appropriately!

For your safety all our products pass through a 100% control check.

We reserve the right to carry out technical changes which serve the improvement at any time.

According to each article and purpose, it is sometimes necessary to check each country's legal regulations before installing and starting the unit.

In case of guarantee claims, the device has to be sent back to the seller in the original packaging with the attached bill of purchase and detailed defect's description. Please pay attention to the manufacturer's return requirements (RMA). The legal warranty directions are valid.

The warranty claims as well as the operating permissions become invalid due to:

- a) unauthorized changes to the device or accessories which have not been approved or carried out by the manufacturer or its partners
- b) opening the device's frame
- c) self-made repairs on the device
- d) improper use / operation
- e) brute force to the device (drop, willful damage, accident etc.)

During installation, please pay attention to all safety relevant and legal directions.

The device has only to be installed by trained personnel or similarly qualified people.

Safety instructions

The installation can be executed only by trained qualified personnel. Before the installation disconnect the power supply. Therefore cut off the battery from the vehicle electric system, follow the manufacturer's specification.

- *Never use bolts, screws and other fastening elements from car's safety devices or steering wheel, brakes because it may influence your driving safety and cause accidents.*
- *Connect the device only to a 12V vehicle voltage with chassis ground to the car body. This unit cannot be used in large trucks or other vehicles which use a DC 24 V battery wiring system voltage.*
- *Avoid to install the device in places where it could hinder the safe driving or functional efficiency of the other units installed in the vehicle.*
- *This unit is only for the use with the following vehicles and model line; Only connections described within this instruction manual are allowed or required to use for installation.*
- *For damage impact caused by faulty installation, unsuitable connections or assembling in inappropriate vehicle types or models Kufatec GmbH &Co.KG assumes no liability.*
- *We advise you that these units process data out of the CAN protocol from the vehicle. During the assembly of this unit we as supplier have access to a specific model and we as producer don't know the overall system you work with.*
- *Especially in case of changes within the same model line and the same model year we don't guarantee the usability of our products. In case of the usability of our products with the manufacturer's changes Kufatec GmbH assumes no liability.*
- *Kufatec GmbH assumes no liability that the assembly of the unit described in this manual is approved according the warranty regulations of the single car manufacturers. Please check your manufacturer's conditions and warranty before you begin the installation.*
- *Kufatec GmbH reserves the right to change the device specification without further notice.*

Notes for references of legal regulations for operation

Use this unit in the intended domain only.

If you use the unit in a foreign domain, if the unit is not installed properly, or if the unit will be reconstructed the operating permit and warranty will expire.

Installation instructions

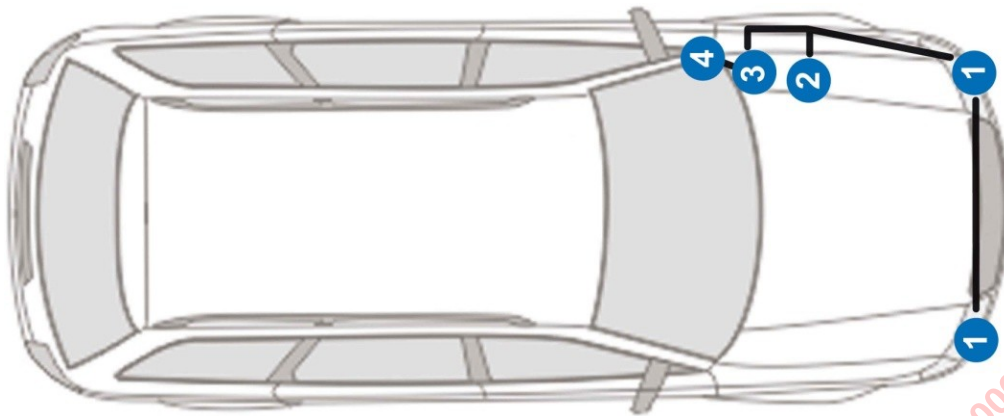


Fig. 1

1 – Fog lamps left, right

2 – Battery

3 – On-board control unit

4 – Light switch

NOTE: Before the installation check if the already assembled on-board control unit is suitable for the fog lamp retrofit. In case of some vehicles the replacement of the on-board control unit is necessary!

Light switch in **0-position** – **press on** – **turn to the right** (fig. 2, 3). Take out the light switch. Loosen the screws of the lower lining (fig. 4) and take this out.



Install the fog lamps. Begin with the wire laying (fig. 1). Lay the wire harnesses through the boot in the interior (behind the pedal rod system) into the engine compartment – use a support wire.

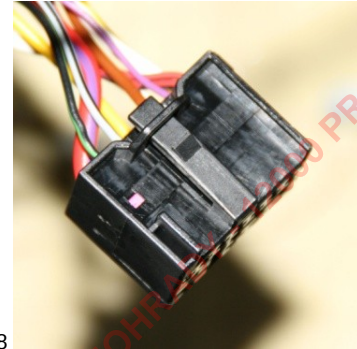
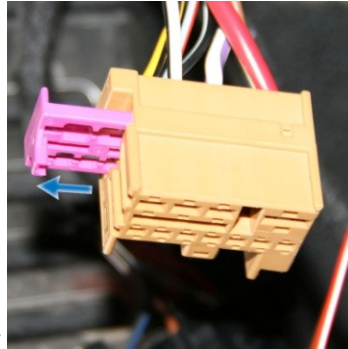
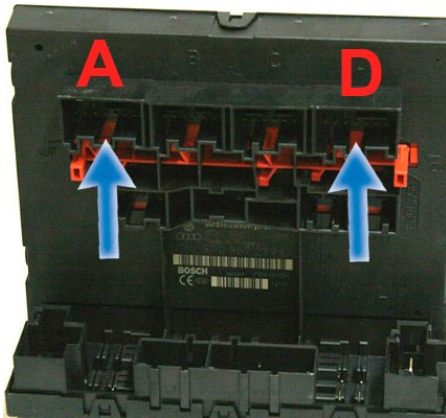


Connection On-board control unit till the 2009 model year

Take out the **A + D plug** (fig. 8, 9). Actuate the **pink locking** and connect the wires as follows.

Plug A - PIN 4

Plug D - PIN 2



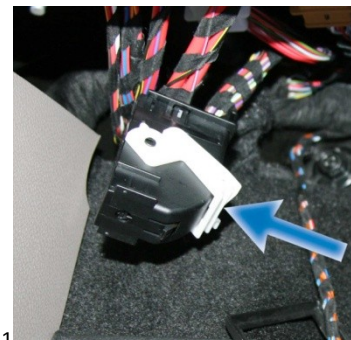
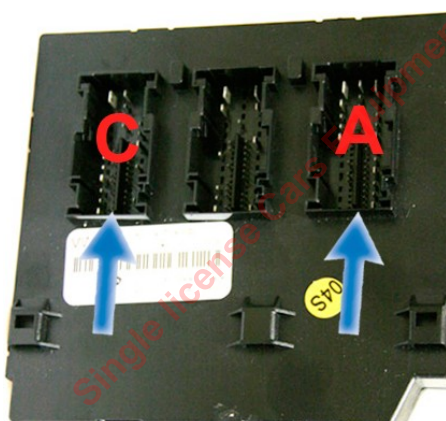
Connection On-board control unit from the 2010 model year

NOTE: The imprint on the delivered wires can vary.

Take out the **plug A (black)** and **C (beige)** (fig. 11, 12). Take out the housing and connect the wires as follows:

Plug A - PIN 25

Plug C - PIN 25



Connection Additional wire till the 2009 model year

Connect the delivered additional wire of the **10-pin plug (light switch) - PIN 5** to **16-pin plug on-board control unit - PIN 6**.

Plug E - PIN 6 >>>

PIN 5 (10-pin plug light switch)

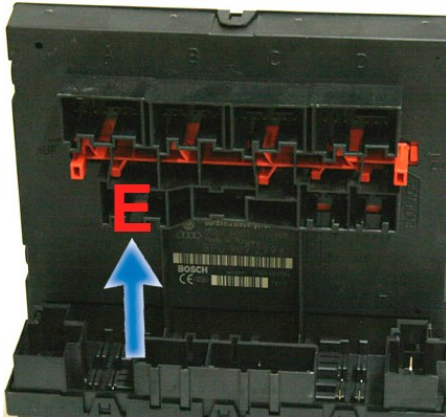


Fig. 13



Fig. 14

Connection Additional wire from the 2010 model year

NOTE: The imprint on the delivered wires can vary.

Connect the delivered additional wire of the **10-pin plug (light switch) - PIN 5** to the **52-pin plug (black) on-board control unit - PIN 21**.

Plug A - PIN 21 >>>

PIN 5 (10-pin plug light switch)

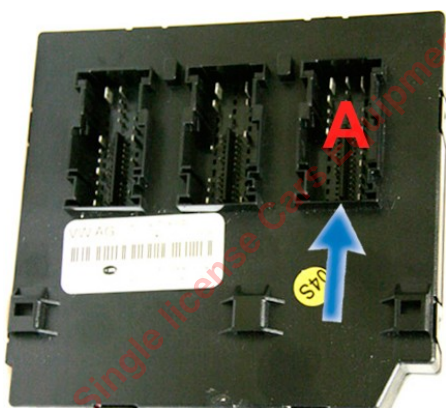


Fig. 15



Fig. 16



Fig. 17

Connect the wire with the cable socket to the **ground connection** of the battery.

The reassembly takes place in a backward sequence.

Notes for BCM replacement for vehicles from 2010

REPLACEMENT BCM:

- Connect the vehicle to the diagnostics computer
- Read out the complete coding of the address 09
- Replace the BCM and transfer the complete read out coding into the new control device

ADAPTATION:

- Channel 01 --- Number Radio key (at 1 = 1 key/ at 2 = 2 keys)
- Channel 19 --- set on 0

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