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Installationshinweise

PDC – Einparkhilfe

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Disclaimer of liability

Dear buyer,

Our cable sets are developed on the basis of the circuit diagrams and circuit diagrams of the respective vehicle manufacturers and are adapted and tested on an original vehicle before series production. The integration into the vehicle electrics and the vehicle electronics therefore follows the specifications of the vehicle manufacturers. Our installation instructions correspond, in terms of the required prior understanding and the accuracy of the representation in text and images, to what is necessary in vehicle electrics / electronics and have already proven themselves hundreds of times in practice.

Should difficulties arise during the installation of one of our products, we will provide you with telephone and electronic support by email at any time. We also offer you to carry out the installation in our factory in Bad Segeberg.

On the other hand, we generally do not assume any costs that arise from commissioning third parties to install our products. Only if it turns out that there is a defect in our product will we reimburse the proven costs of installation and the costs of dismantling the defective product, whereby we limit the cost reimbursement to EUR 110 gross and we check the alleged defect in our Reserved for the factory in Bad Segeberg. The shipping costs for the factory inspection will be reimbursed if the complaint is justified

We have made the experience that every specialist workshop that has the necessary diagnostic equipment, diagnostic software and circuit diagrams from the manufacturer can find any faults in one of our products within a short time, so that installation and removal, including fault diagnosis, can be carried out in a maximum of 60 minutes can.

We have also made the experience that many specialist workshops cannot cope with the manufacturer's circuit diagrams and cannot read the circuit boards, so that various hours are written down for the simplest installation work. You will understand that we can neither take on the risk of finding a reliable specialist workshop, nor finance the staff training of the workshop you trust.

We will reimburse costs that arise because you obtain missing parts or replacements for defective parts from other providers up to: lur the amount of the costs incurred through a subsequent delivery (saved expenses). According to the statutory warranty law, there is no right to reimbursement in this case as long as we have not been set a deadline for subsequent performance or a deadline set for subsequent performance has not expired.

So, if you have problems installing or operating one of our products, give us a call, send us an email, send us the product or bring your vehicle to our factory in Bad Segeberg. We are sure to find an appropriate solution for every concern.

Friendly greetings

Ihr Kufatec GmbH & Co. KG Team

Copyright

Our installation and operating instructions, installation plans and other documentation in text and image form are protected by copyright.

The publication and distribution of this documentation via print and online media is only permitted with the written consent of Kufatec GmbH & Co. KG.

General information

During the development of the product, particular attention was paid to your personal safety, combined with the best possible ease of use, modern design and current production techniques.

In spite of the greatest possible care, improper installation or use, or incorrect use, can result in injuries and / or property damage.

Therefore, please read the present operating instructions carefully and completely and keep them!

All items from our production go through a 100% test for your safety.

We reserve the right to make technical changes at any time in the interest of progress.

Depending on the article and purpose of use, it may be necessary to check the legal regulations of the respective country before installation or commissioning.

In the event of a warranty claim, the device must be sent to the seller in the original packaging with the enclosed proof of purchase and a detailed description of the fault. Please note the manufacturer's return policy (RMA). The statutory warranty regulations apply.

The guarantee claim and also the operating license expire through:

- a) unauthorized changes to the device other accessories that were not drilled through or approved by the manufacturer or its partners
- b) opening the housing of a device
- c) repairs to the device that you have carried out yourself
- d) improper use I improper use I operation
- e) Force acting on the device (falling, willful destruction, accident, etc.)

When installing, observe all safety-relevant and legal regulations.

The device may only be installed by trained specialists or similarly qualified persons

n the event of assembly or functional problems, limit the troubleshooting to approx. 0.5 hours for mechanical work or 1.0 hours for electronic work.

In order to avoid unnecessary additional work and to save costs, send us an inquiry to our technical support immediately using the Kufatec contact form (<http://www.kufatec.de/shop/de/infocenter/>).

Be sure to state the following:

- Chassis number
- Part number of the replacement kit
- Exact description of the problem
- Work steps already drilled through

Safety Instructions

The installation may only be carried out by trained specialists. Only carry out installations when the power is off. For this e.g. disconnect the battery from the vehicle electrical system, please observe the vehicle manufacturer's specifications.

- Never use safety-relevant screws, bolts or other fastening points on the steering, braking system or other components in order not to endanger your own driving safety.
- Only connect the device to 12V vehicle voltage with a ground connection to the body. This sub-assembly is not approved for use in trucks or other vehicles with 24V on-board voltage.
- Avoid installing the device on Steffen, which would reduce driving safety or the functionality of other sub-assemblies installed in the vehicle would be restricted.
- This module can only be used in combination with the following vehicle types and model series; The installation is only carried out using the connection specified in the installation instructions.
- Kufatec GmbH assumes no liability for damage caused by improper assembly, the use of unsuitable connections or assembly in unintended vehicle types and types.
- We would like to point out that the module processes the data described below from the MOST protocol / 1 of the vehicle. When installing the module, a model-specific overall system is therefore accessed, which we as the manufacturer of the named assembly are only partially aware of.
- Especially in the case of changes within the same model series and the same model / year, the usability of our assembly cannot be guaranteed in every case. Kufatec GmbH & Co. KG therefore assumes no liability for usability of our assembly with changes made by the manufacturer.
- Kufatec GmbH & Co. KG does not guarantee that the installation of the component described here is approved in accordance with the warranty provisions of individual vehicle manufacturers. Therefore, please observe the installation guidelines and guarantee conditions of your vehicle manufacturer before installation.
- The manufacturer resorted to changing components without giving reasons.
- Subject to errors and changes

Requirements for normal operation

Only use the device in the area intended for it.

**In the event of improper use for a purpose other than the intended use of the installation or conversions, the
Operating license and the guarantee claim.**

PDC – Park Distance Control

- Distance assessment by means of an acoustic warning.
Significantly simplified orientation by addressing each individual individually
Sensors.
- All standard functions are retained in full.
Uncomplicated assembly, no cutting of cables necessary.

scope of delivery for 33779

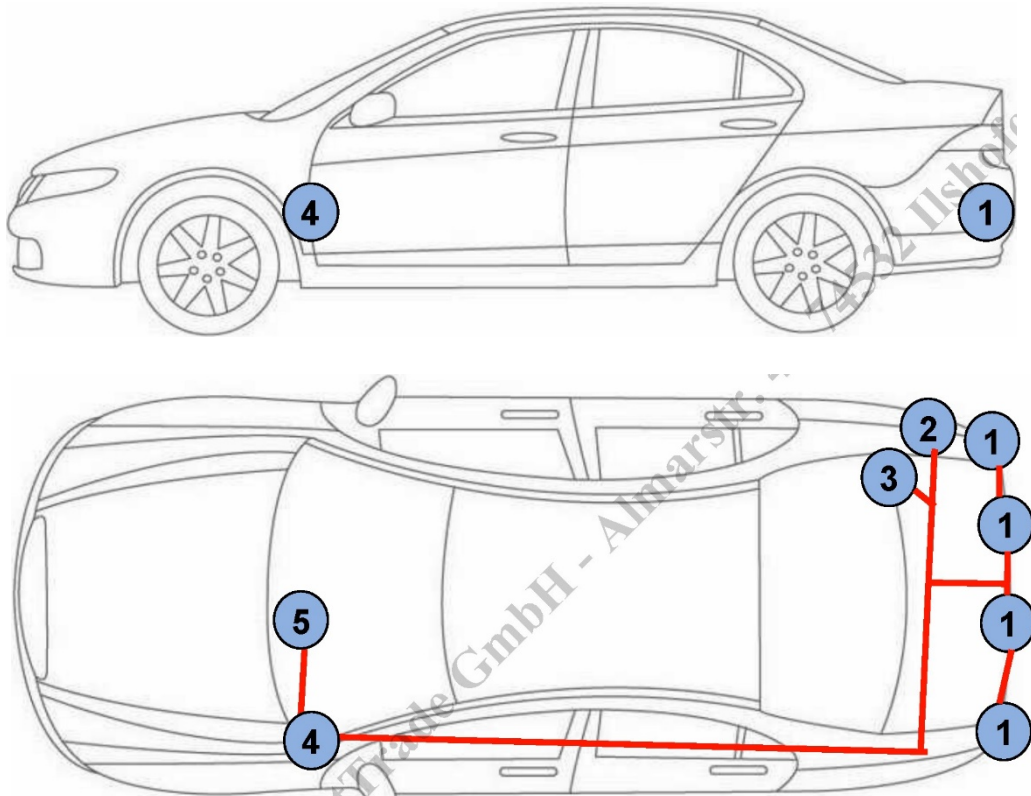
Cable set PDC sensors rear bumper

scope of delivery for 33780

Cable set PDC control unit central electrics

Installation instructions

The following illustration shows how the cables are laid and the position of each Components



Schema

- 1 - sensors
- 2- sounder
- 3 - PDC control unit
- 4- Diagnostic socket
- 5- combination instrument

Dismantle the paneling on the dashboard, Fig. 1 and the paneling of the A-pillar in the footwell. In the next step, start laying the cables from the A-pillar on the driver's side to the right rear, to the PDC control unit. To do this, dismantle the front rocker panel, which is fastened with clips, Fig. 2 and lift the rear panel, Fig. 3. Lay the cables below the panels as shown in Fig. 2 and 3.



Abb. 1



Abb. 2



Abb. 3

Then loosen the trim in the trunk on the left, Fig. 4, remove the cover on the rear panel, Fig. 5 and loosen the trim on the right in the trunk, Fig. 6. Lay the cables according to the 4 arrow representations behind the right trunk trim.



Abb. 4



Abb. 5



Abb. 6

Mount the PDC control unit with suitable mounting material in the trunk recess on the right, behind the paneling, Fig. 7 and the sounder above the PDC control unit, Fig. 8.



Abb. 7



Abb. 8

Connect the cable for the RF signal to the blue / red cable of the right tail light, Fig. 9. The connection point must then be insulated. It continues in the area of the A-pillar in the driver's side footwell. Establish the ground connection to the ground point, Fig. 10.

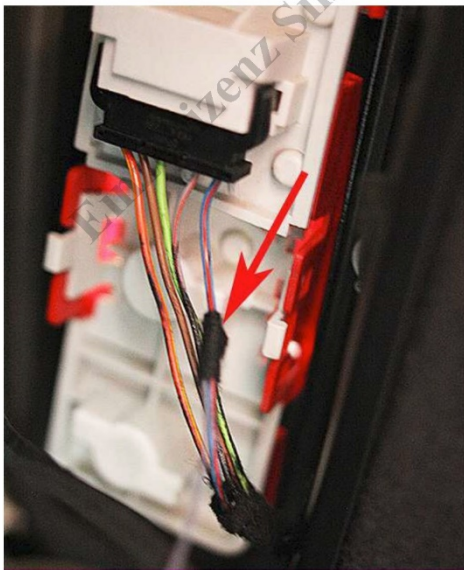


Abb. 9

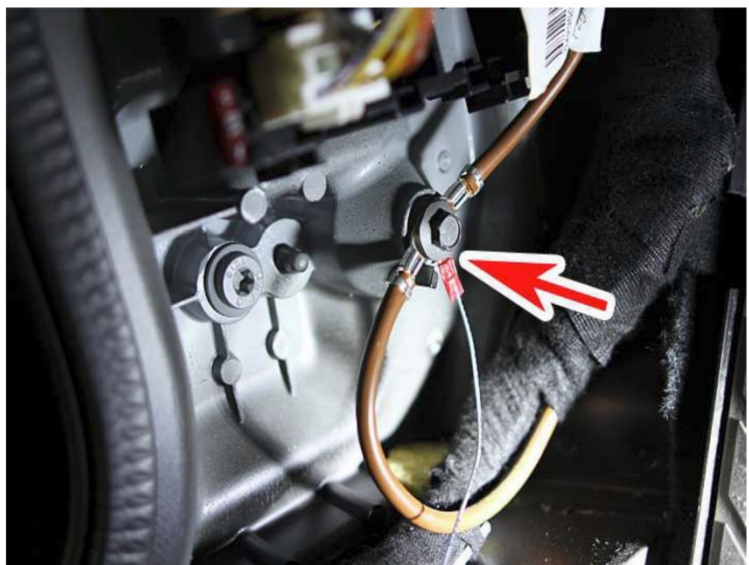


Abb. 10

Connect the line for ignition plus to fuse slot no. 38, Fig. 11 and the line for permanent plus to fuse place no. 12, Fig. 11. The correct connections to ignition plus and permanent plus must be checked by measuring the voltage! The connection to K-Line takes place at pin 7 of the diagnostic socket, Fig. 12. The connection points are then closed isolate

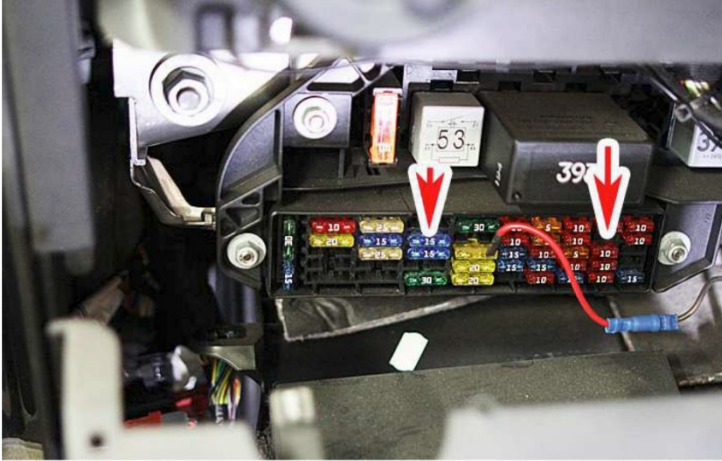


Abb. 11

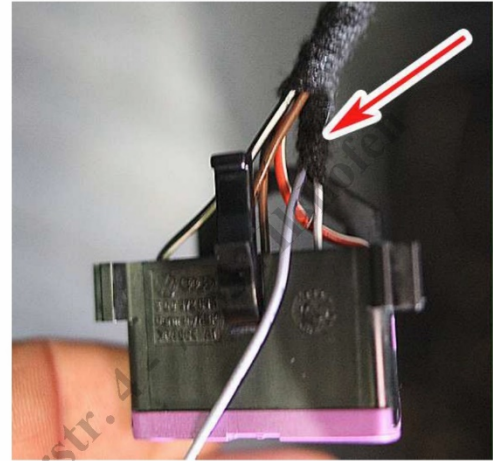


Abb. 12

Remove the instrument cluster. To do this, remove the cover in front of the instrument and the 2 screws on the cover, Fig. 13, and remove them



Abb. 13

Then loosen the screw at the top, Fig. 14 and fold the instrument cluster backwards towards the steering wheel. Then pull out the blue, gray and green plugs. To do this, open the pink locks, Fig. 15.

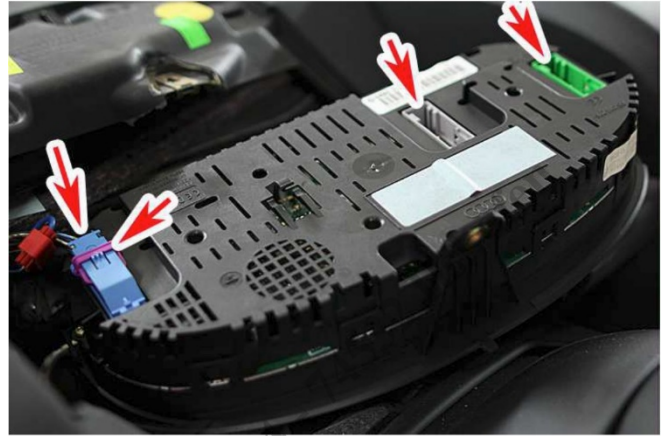


Abb. 15

Abb. 14

The CAN lines are connected according to the cable colors and pin numbers mentioned below on the green plug of the instrument cluster. To make the connections, remove the connector cover, Fig. 16. To do this, it is necessary to remove the locking mechanism. The connection points must then be insulated!

Can High	Pin 22 (orange/grun)
Can Low	Pin 23 (orange/braun)

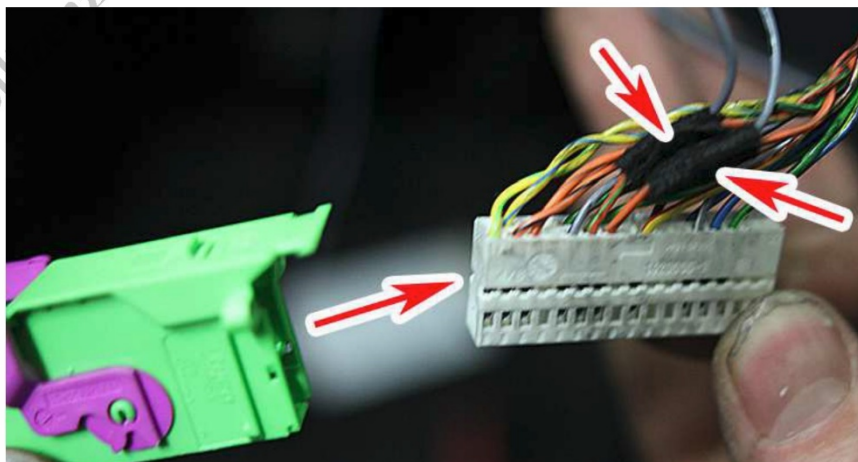


Abb. 16

The cable for the Gala signal is connected in the same way as the CAN connections just described, but on the blue plug of the combination instrument, Fig. 17, according to the cable color and pin number mentioned below, Fig. 18 Isolate connection point!



Abb. 17

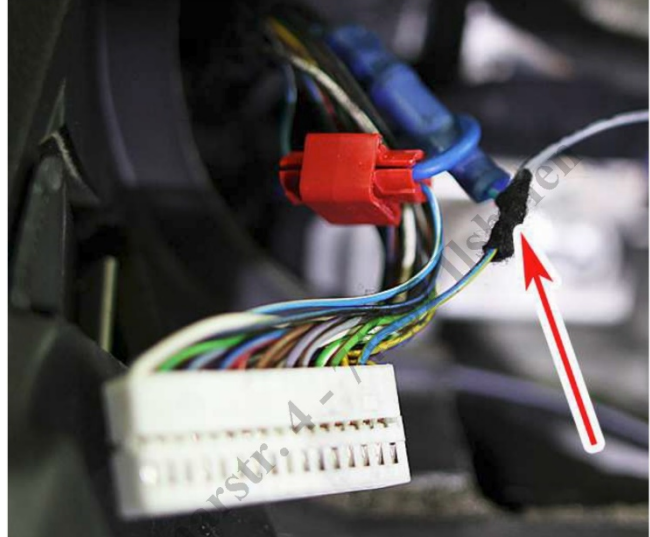


Abb. 18

Gala

Pin 31 (blau/gelb)

Now start mounting the sensors. To do this, remove the rear bumper and carefully drill holes with a suitable drill at the positions already marked from the inside in the two bumper bars. Then insert the brackets with the sensors accordingly. For a secure hold, attach the sensors healing adhesive, Fig. 19, Fig. 20



Abb. 19

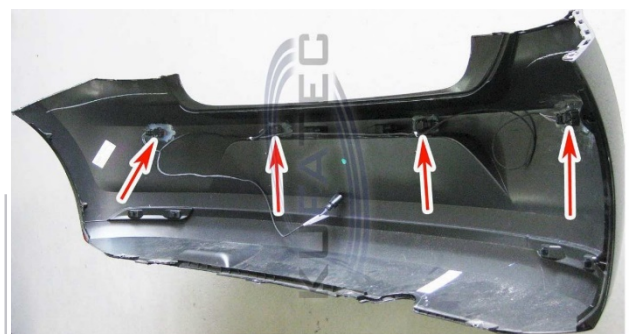


Abb. 20

The sensors should be flush with the surface from the outside, Fig. 21. Connect the cable set for the PDC sensors to the sensors and lay the cable set inside the rear bumper. Fasten the cable set inside the bumper with cable ties. Guide the connection of the cable set through the cable sleeve in the rear panel and connect it to the previously laid cable set in the interior



Abb. 21

The assembly is done in reverse order. The installation is then successfully completed