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## Installation Instructions FISTUNE DAB/DAB+ Integration



Article No. 40149 FISTUNE DAB / DAB+ Integration BMW E-Series CIC

Article No. 40150 FISTUNE DAB / DAB+ Integration BMW F-Series

Article No. 40150-1 FISTUNE DAB / DAB+ Integration BMW F-Series NBT / NBT Touch

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## BMW E-Series/F-Series

### Contents

Disclaimer .....	2
Copyright.....	3
General Advice.....	3
Safety Instructions.....	4
References of Legal Regulations for Operation .....	4
Notes.....	5
Scope of delivery for 40149, 40150, 40150-1 .....	5
Installation Instructions .....	6
Disassembly Radio-/Navigation unit if the vehicle is NOT equipped with components that are connected by LWL in the trunk .....	7
Interface connection .....	14
Coding dongle (only for vehicles <b>WITHOUT</b> CD-changer) .....	16
Execution of the coding .....	16
Operation CIC .....	17

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## Disclaimer

Dear Customer,

our cable harnesses are developed with the help of the circuit diagrams and wiring schemes of the particular vehicle producer and they are tested and adjusted to the original vehicle, before the serial production. Therefor the integration into the On-Board electric- and electronic-system follows the information of the vehicle producers. Our installation instructions are consistent, in course of the necessary pre-understanding and the precision of the presentation in text and picture, with the staff usual in vehicle electrics/electronics and they have proven their value already hundredfold in practice.

If, during the installation of our products, difficulties occur, we are any time ready to provide you support by phone or E-mail. Additionally, we offer you to use the installation in our workshop in Bad Segeberg.

Costs, arising from third parties assigned with the installation of our products, bears the customer. Only when it proves, that there is a failure of our product, we will compensate the evidenced costs of the assembly and the costs of dismantling the defective product. Whereby we limit the cost reimbursement up to 110 Euro gross and we reserve our right to check the claimed defect in our workshop in Bad Segeberg. The costs for shipping will be refunded, in case of a justified claim.

We made the experience that each professional workshop, which is equipped with a necessary diagnosis device, diagnosis software and the circuit diagrams of the producer, can find the possible defects in our products within a short period of time. The assembly and disassembly, including failure diagnosis, can take place in a maximum of 60 minutes.

We also made the experience that many workshops are not able to cope with the product's circuit diagrams and can not read common wiring schemes. For simplest installation labors, several hours are calculated. You will understand, that we can neither take the risk that you find a reliable workshop, nor do we finance the training of the workers in the workshop of your confidence.

The costs, that arise from the acquisition of missing parts or replacements for defective parts from another supplier, we do reimburse to the amount of costs which would have arisen in case of subsequent delivery (saved expenditure). In this case, according to the legal warranty law, there would be no reimbursement right of any kind. As long as no deadline was set for the supplementary performance or deadline for supplementary performance has not expired.

If you have any problems during the installation or operation of our products call us, write us an E-mail, send us the product or come to our workshop in Bad Segeberg with your vehicle. We are sure, to find solutions for concerns of any kind.

Kind regards

Your Kufatec GmbH & Co. KG Team

## Copyright

Our installation- and operation manuals, installation plans and other documentations in text or picture form are protected by copyrights.

Publication and distribution of these documentations via print or online media is only granted with written consent of Kufatec GmbH & Co.KG.

## 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.

Please, read the attached instruction manual completely with great care and keep it!

All articles of our production line pass through a 100 % check – for your safety and security.

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 it.

In case of guarantee claims, the article 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 manufacturers return requirements (RMA). The legal warranty directions are valid.

The guarantee claim as well as the operating permission becomes 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) device's repairs carried out by one's own*
- 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.

**Limit the time, in case of installation- or problems concerning the functionality of the device to approx 0,5 hours for mechanical or 1,0 hours for electrical error searches.**

To avoid unnecessary costs and time-loss, send in an immediate support-request, via the Kufatec-contact-form (<http://www.kufatec.de/shop/de/infocenter/>) to our support team.

In case of, let us know the following:

- Vehicle-Identification-Number
- Five-digit part number of the device
- Precise error report
- Steps you have taken to solve the problem

## Safety Instructions

Installation requires special knowledge.

Do not install the device yourself. For safe and reliable installation, consult a specialist.

- *Never use bolts or nuts from the car's safety devices for installation. If bolts or nuts from the steering wheel, brakes or other safety devices are used for installation of the device, it may cause an accident.*
- *Use the device with a DC 12V negative ground car. This device cannot be used in large trucks which use a DC 24V battery. If it is used with a DC 24V battery, it may cause a fire or accident.*
- *Avoid installing the device in the following places: - Where it would hinder your safe driving. – Where it could damage the car's fittings.*
- *This device is only for use in the above mentioned vehicles. Only connections described within this instructions guide are allowed or required to use for installation.*
- *For damage impact caused by faulty installation, unsuitable connections, inappropriate vehicles Kufatec GmbH assumes no liability.*
- *We advise you that these devices process data from the MOST – protocol of the vehicle. As the supplier of this device we don't know the overall system you are working with. If your device causes damage, due to other changes made to the vehicle, Kufatec GmbH assumes no liability.*
- *Kufatec GmbH supplier does not guarantee the use of the product for changes within a new vehicle series.*
- *If the car manufacturers don't agree with the installation of our device by reason of warranty, Kufatec GmbH assumes no liability. Please, check conditions and warranty before you begin the installation.*
- *Kufatec GmbH supplier reserves the right to change the device specifications without notice.*
- **Note: The road traffic has to have your full attention!**
- *Telephone operations should only be done in suitable traffic and weather situations. The volume needs to be set so you are still able to realize acoustic warning signals (Police, Fire Brigade)*
- *Errors and changes excepted.*

## References of Legal Regulations for Operation

Only use this device in the intended domain.

If you use it in a foreign domain, if the device is not installed properly, or if the device will be reconstructed, the guarantee will expire.

## Notes

**NOTE:** Applicable only from the BMW-software-version 2009 and for the following radio systems:

**Art.-No. 40149**

- CIC Professional
- CIC Business

**Art.-No. 40150**

- CIC Professional
- CIC Business
- CIC Radio

**Art.-No. 40150-1**

- NBT
- NBT Touch

**NOTE channel search:** There is no automatic channel search, it has to be done manually via MMI. A new manual channel search is necessary only for regional ensembles, when the vehicle changes the position and in this way the regional ensembles are altered too.

In case of national ensembles a new channel search is not necessary.

### Notes for assembling the vehicle

Before you start assembling the vehicle, the system must first be tested for proper function.

### Note Cable Inscription/Color

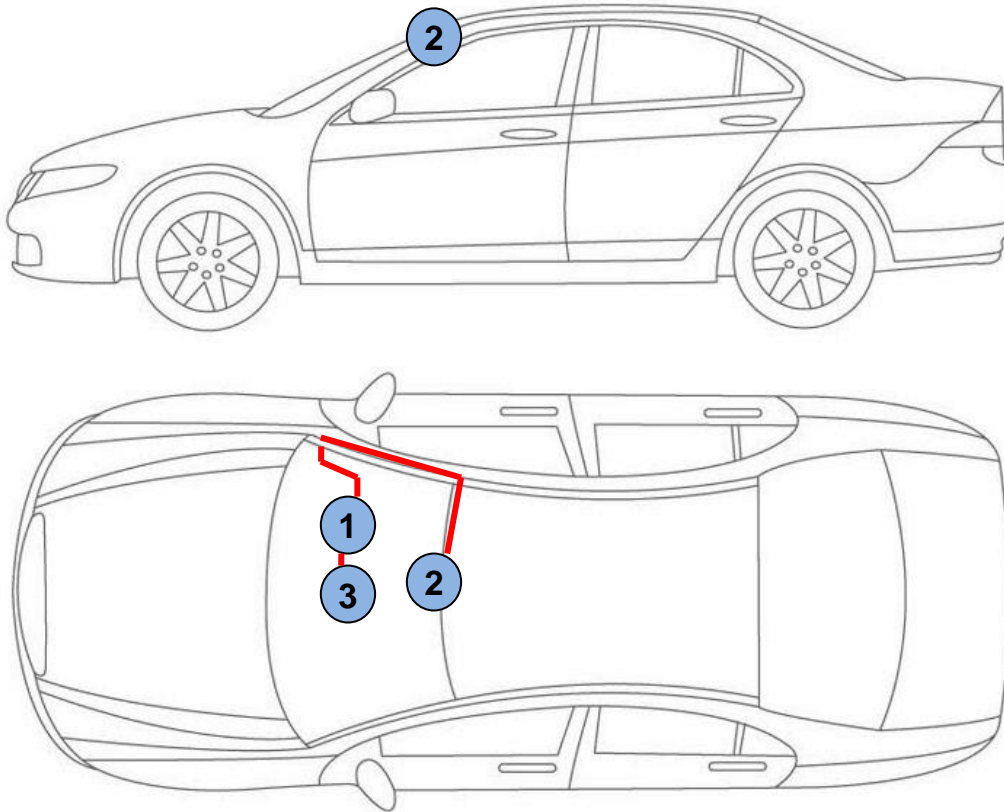
If the cable set consists of colored cables, connect the cables according to the color. If all cables of the cable set have the same color, connect the cables according to the cable inscription

## Scope of delivery for 40149, 40150, 40150-1

- FISTUNE Interface
- Cable set
- Coding dongle

## Installation Instructions

The following illustration shows the cable routing as well as the position of the individual components.



Vehicle Overview

**1 – (Radio box) FISTUNE Interface**

**2 – Antenna**

**3 – Radio unit**



## Disassembly Radio-/Navigation unit if the vehicle is NOT equipped with components that are connected by LWL in the trunk

1er – E81, E82, E87, E88

Remove the panel using a suitable tool (plastic wedge – to avoid damage). This is only inserted – 5 fastening spots (fig. 1 and 2).



Fig. 1



Fig. 2

Remove the air-conditioning control unit (fig.3). Take out the covering of the navigation computer (fig. 4). Loosen the necessary bolts of the radio resp. navigation computer (fig. 5). Carefully pull out the unit.



Fig.3

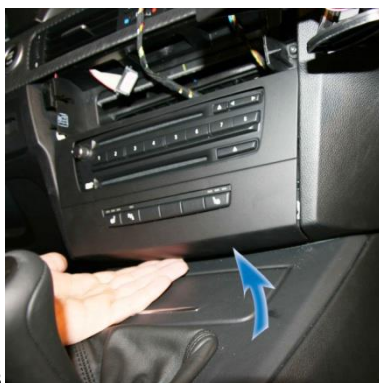


Fig.4



Fig.5



1er – F20

3er – F30

5er – F07, F10, F11

7er – F01

Dismantle the blind of the dashboard. The blind is fastened at 7 spots, fig. 6 and 7.



Fig. 6



Fig. 7

Using a suitable tool (dismantling wedge – to avoid damage) carefully lever the blind out of the frame, fig. 8 and 9.



Fig. 8



Fig. 9

Loosen the screws of the front panel (air-conditioning control unit) – disconnect the original plug connections – take out the air-conditioning control unit, fig. 10 and 11.



Fig. 10



Fig. 11

Loosen the necessary screws of the radio-navigation unit – disconnect the original plug connections – carefully pull out the unit, fig. 12 and 13.



Fig. 12

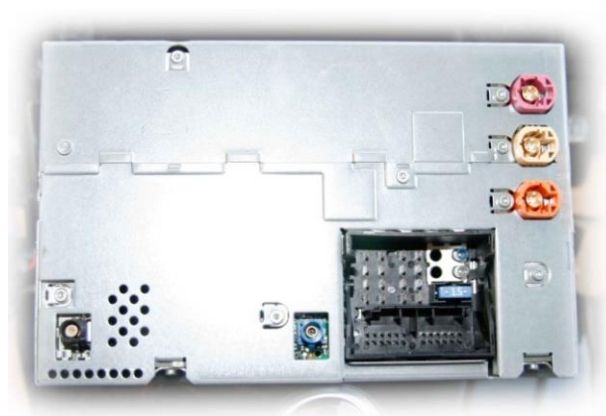


Fig. 13

3er – F31

Disassembly of the glove compartment, fig. 14.



Fig. 14



Loosen two screws (2xSW10) from the cover at the bottom, fig. 15. Pull the lower cover down and loosen all plug connections, fig. 16.



Fig. 15

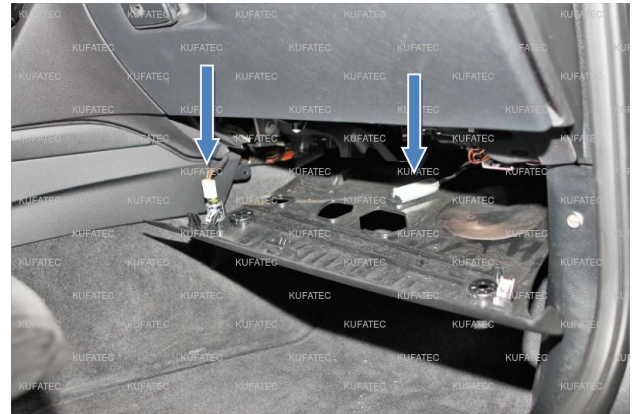


Fig. 16

Loosen the four marked screws (4xT25) in the glove compartment at the top, fig. 17. Another screw (1xT25) is located at the side behind the cover. Loosen and remove this one as well, fig. 18.

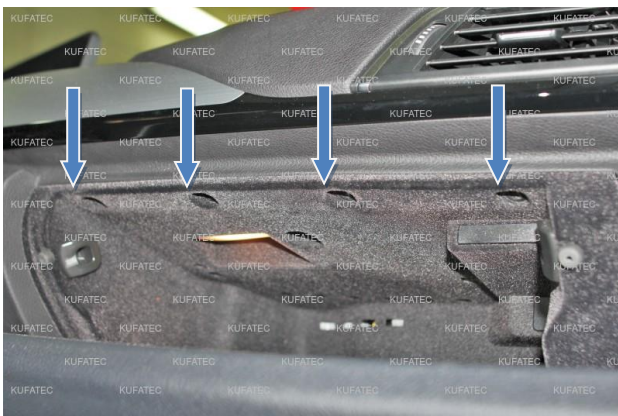


Fig. 17

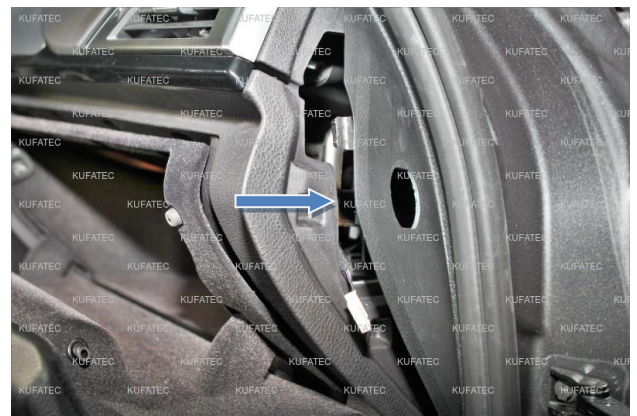


Fig. 18

Pull the glove compartment down afterwards and loosen all plug connections, fig. 19.



Fig. 19

Disassembly of the radio unit. Loosen the upper panel by using an assembly lever, fig. 20. Loosen the two plugs from the panel, fig. 21.



Fig. 20

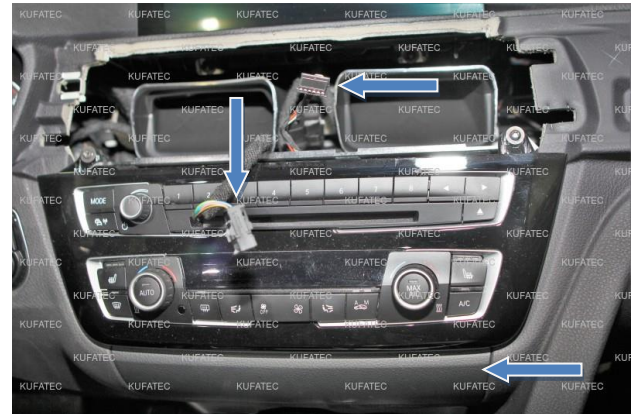


Fig. 21

Loosen the lower panel by using an assembly lever. It is located under the button unit, fig. 21 and 22.



Fig. 22

Loosen and remove the two marked screws (2xT20) at the top of the button unit, fig. 23. Loosen and remove the two marked screws (2xT20) at the bottom of the button unit, fig. 24. Remove the button unit afterwards.



Fig. 23



Fig. 24



Loosen the two marked screws (2xT20) of the radio unit, fig. 25. Pull the radio unit out to the front afterwards.

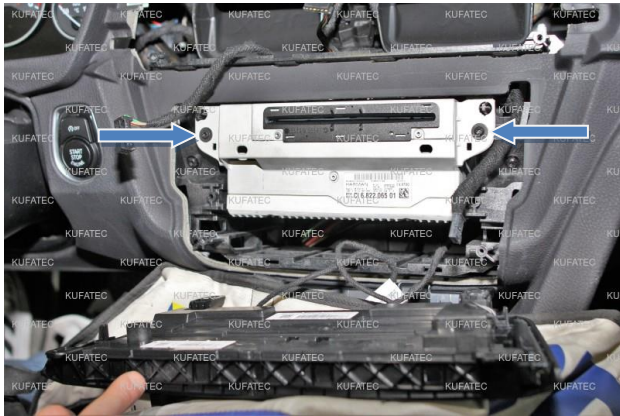


Fig. 25

**Notes for the assembly of the module:** Connect the two plug cables (optical wave guide, power supply) to the module and assemble it in the assembly shaft underneath the radio unit. Make sure that the module doesn't make any sounds in its assembly position, fig. 26.



Fig. 26

5er – E60, E61

Carefully lever the panel out of its frame using a suitable tool (dismantling wedge – to avoid damage), fig. 27 and 28.



Fig.27



Fig.28

Loosen the screws of the front panel, fig. 29. Loosen the necessary screws of the radio resp. navigation computer, fig. 30. Carefully pull out the unit.



Fig. 29



Fig. 30

## Interface connection

### Light conductor

Remove the original light conductor plug from the Quadlock plug, fig.18. Clip the delivered housing on the just removed (original) light conductor. Connect the original light conductor plug with the socket of the delivered cable set, fig. 19.

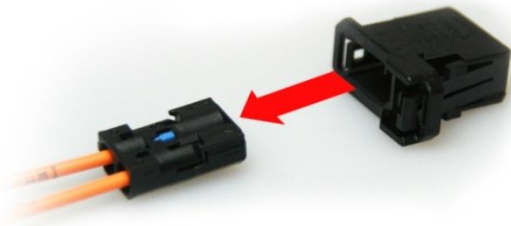


Fig. 31

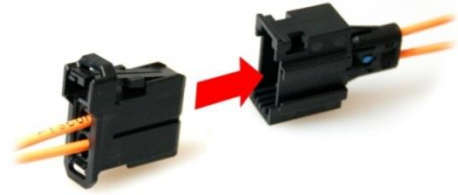


Fig. 32

Connect the 18-pin and the light conductor plug to the interface – remove the blind plug from the interface, fig. 20 and 21 show the correct connection of the interface.

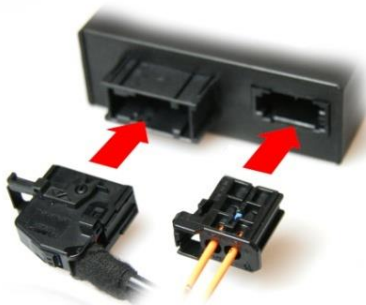


Fig. 33



Fig.34

Finally integrate the light conductor in the Quadlock plug and connect this again in the radio/navigation unit.

Now proceed further with the above described sequence „Antennas“ and „Power supply“.



## Antennas

Then connect the antenna plug with the unit. For a high quality digital reception the connection can take place to the original BMW antenna system or one of the above mentioned antennas can be assembled.

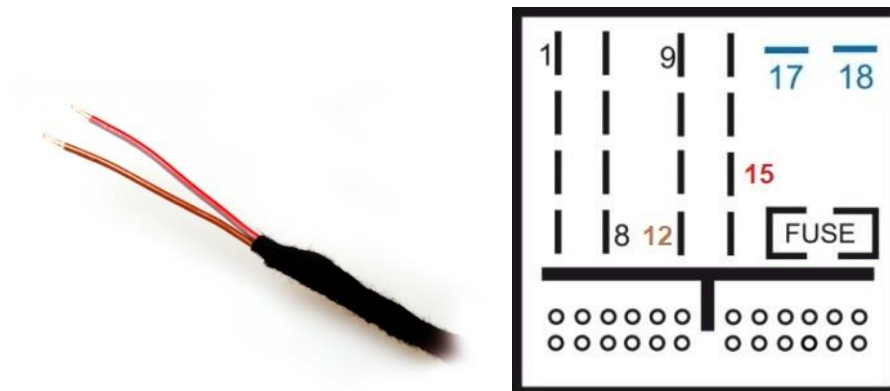
In order to be able to guarantee a trouble-free reception the antenna should be installed in an appropriate distance to: - shielded glass surfaces/ car body / another parts – that influence the signal reception.

The antenna has to be placed vertically or horizontally. We recommend to carry out some tests in order to determine an ideal antenna position in the vehicle.

## Power supply

The wires **brown (ground)** and **RED (or red/yellow) (steady plus)** have to be connected by means of e.g. a new crimp joint specific to the vehicle.

<b>Brown</b>	-	<b>Pin 12</b>
<b>Red (red/yellow)</b>	-	<b>Pin 15</b>



**CAUTION:** DO NOT use any press-on connectors!

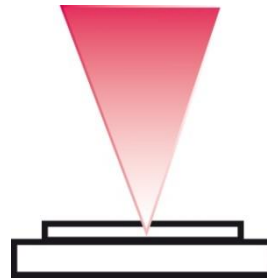
**NOTE:** The wire color can be also neutral, therefor please consider the wire imprint!

## Coding dongle (only for vehicles **WITHOUT** CD-changer)

**NOTE:** This coding dongle is suitable only for the concluding coding if the retrofit of the FISTUNE, article number 40149, 40150 or 40150-1 was conducted.

**NOTE:** The coding dongle is applicable **consistently for just one vehicle** only. It means during the first usage it stores the chassis frame number and another vehicle details.

The interface is equipped with an **LED** whereby the status of the diagnostics interface is indicated.



## Execution of the coding

1. Switch on the ignition, **THE ENGINE HAS TO BE SWITCHED OFF DURING THE PROGRAMMING**, wait ca. 1 minute and make sure that the Radio/Navigationssystem is completely boot up. Then plug the interface into the diagnostics port (OBDII® plug) of the vehicle. This port is situated in the driver's foot space.
2. As soon as the coding has started the LED illuminates permanently.
3. After a short time the LED begins to flash fast.
4. After approx. 10-15 seconds the LED illuminates permanently again.
5. The dongle can be removed after the LED turns off.

**NOTE:** During the coding, the interface must not be removed from the diagnostics port! If the LED is still on after ca. 3 minutes, you can take out the interface again.

After the connection carry out sufficient function tests. If they are successful assemble everything in a backward sequence.

## Operation CIC

Because the FISTUNE is fully integrated in the vehicle, all the information in your BMW Infotainment system is available to you. The operation of the digital radio reception takes place via the iDrive or the radio.

### Functions CIC

In order to enter the DAB-Menu, switch on the radio, press the „**MEDIA**“ button, fig. 35. Now if you want to run an automatic auto scan, scroll the list to the reception source „**DAB/DAB+**“, fig. 36, and start the „**Auto scan**“, fig. 37. It starts automatically. During the auto scan the display **99:44 > 99:00** appears.



Fig. 35



Fig.36



Fig. 37

If the failure message **88:44 <> 88:00** appears, there is a problem with the reception. Check then all the connections, especially the antenna connection and start the search run again.

### **Notes for assembling the vehicle**

Before you start assembling the vehicle, the system must first be tested for proper function.

### **Final work / bus rest**

**Important note:** After the coding has been completed, you need to wait for the the bus rest.

Proceed as follows:

- Switch off the ignition on the vehicle and close all doors.
- Close up the car by remote control.
- Then leave the vehicle for about 10 minutes.

**Important:** On vehicles equipped with Kessy the Key must not be in or in the near area of the vehicle.