



Installation Instructions

Complete set active Sound incl. Soundbooster

Mercedes CLS W218

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Contents

1	Liability Exclusion	3
2	Copy Right	4
3	General Notes	4
4	Safety instructions	5
5	Requirements for the determinable operation	5
6	Note	5
7	How to connect a cable to another	6
8	Note Cable Inscription/Color	7
9	Assembly Instructions	8
10	Removing interior trim panel	9
11	Connection cable set	10
12	Connection ignition lead	11
13	Connection ignition lead / installation pushbutton	12
14	Routing connecting cable of the sound generator	13
15	Installation sound generator	14
16	Adaptation override protection	15
17	Important Information Sound Booster	16

1 Liability Exclusion

Dear Customer

Our cable sets are developed according to the connection- and circuit diagrams of the corresponding car manufacturer. Before the original production the cable sets will be tested on an original car. Therefore, the integration into the car electronics will be executed according to the instructions of the manufacturer. Regarding the necessary pre-understanding and the accuracy of the presentation of texts and pictures our mounting guidelines correspond to the usual ones in car technology and car electronics. Practically, they have been proved one's worth a hundred times.

However, should there be any difficulties during the installation of our products we will be at your disposal any time for support by phone or by mail. Moreover, we offer you to execute the installation at our works in Bad Segeberg.

Costs which may arise because a third person will execute the installation of our products will not be supported by us in any case. Only if there is a mistake caused by our product we will pay the proved costs of the installation as well as the costs of the removal of the defective product. The refund of expenses will be limited to gross EUR 110,- ; we reserve the right to check the described mistake in our works in Bad Segeberg. In case of a proved reclamation the costs for dispatch for the check in our factory will be transferred to you.

According to our experience each specific factory which has the necessary diagnostic device, diagnostic software and the circuit diagrams of the manufacturer can find possible mistakes at our products within a short time. So the installation and removal including diagnostic inspection can be realised in at most 60 minutes.

We also made the experience that many specific factories cannot work with the circuit diagrams of the manufacturer, and that they cannot read usual wiring diagrams. Therefore, very easy installation works will take many hours. You will understand that we neither take the risk to find a reliable specific factory nor the financing of the training of the staff of your favoured factory.

Costs which will arise because you buy missing parts or spare parts at other suppliers will be refunded by us up to the amount of the costs which had been arisen by additional supply (saved expenses). In this case, there would be no right for refund according to the legal guarantee right as long as we have no deadline for supplementary performance or a deadline for supplementary performance has not expired.

So if you have any problems with the installation or operation of one of our products please call us, send us an email, send us the product or take your car to our factory in Bad Segeberg. We are sure to find an appropriate solution for each concern.

With best regards

Your Kufatec GmbH & Co. KG Team

2 Copy Right

Our installation- and removal instructions, installation plans, software and other documentation with texts or pictures are protected by copy right.

A publication or distribution of these documents is only permitted with a written approval of Kufatec GmbH & Co. KG.

3 General Notes

Regarding the development there has especially been paid attention to your personal safety together with the most possible operating comfort, modern design and actual product technologies.

Despite most possible accuracy in case of incorrect installation or use or in case of incorrect operating, it is possible that injuries or damages of property may arise.

Therefore, please read the operating instructions you have received carefully and completely, and keep it with you.

All articles of our production will be checked at 100% — for your safety.

We reserve the right to make technical changes which serve the progress at any time.

Before the installation or startup it may be necessary, depending on the article and purpose of use, to check the legal instructions of each country.

In case of warranty claim the device has to be sent to the seller originally packed together with the sales receipt and a detailed description of the mistake. Please consider the manufacturer's instructions for return (RMA). The legal warranty instructions are valid.

The warranty claim and also the permission for startup will expire in case of:

- unauthorised changes on the device or the accessories which have not been executed or approved by the manufacturer or its partners
- opening of the box
- repair of the device on your own
- incorrect use / no normal use / startup
- influence of force on the device (falling down, wilful damage, accident, etc.)

During the installation please consider all safety and legal instructions. The device may only be installed by trained qualified personnel or persons who are similar qualified.

In case of installation- or function problems please reduce the search of the mistake to approx. 0,5 hours for mechanical works or 1,0 hours for electronic works.

To avoid unnecessary additional work and expenses, please send immediately an inquiry to our technical support with the Kufatec contact form (<http://www.kufatec.de/shop/de/infocenter/>)

Please absolutely mention the following:

- car chassis number
- part number of the add-on kit
- exact description of the problem
- work steps already made

4 Safety instructions

The installation may only be executed by trained qualified personnel. Please execute the installations only in a condition of dead voltage. Here please separate for example the battery from the main power supply and consider the instructions of the car manufacturer.

- In order to not endanger your own driving safety please never use security relevant screws, bolts or other fixation pieces at steering, brake system or other components.
- Connect the device only at 12V wiring system voltage with ground connection to the autobody. This assembly is not allowed for the use in trucks or other cars with 24V wiring system voltage.
- Please avoid the installation of the device at positions where the driving safety or the functional efficiency of other subassembly integrated in the car are restricted.
- This module may only be used together with the following mentioned car types and models; the installation may be executed exclusively by use of the circuit points mentioned in the assembly instructions.
- Kufatec GmbH & Co. KG does not assume liability for damages which are caused by incorrect installation, the use of inapplicable circuit points or the installation into car types and -modules which are not foreseen.
- We would like to draw your attention to the fact that the module processes the data of the MOST-protocol of the car mentioned below. Therefore, during the installation of the module it will be used a model-specific complete system which we as the manufacturer of the mentioned construction line only know partly.
- Especially in case of changes within the same model line and the same year we therefore cannot guarantee the applicability of our construction line in each case. Kufatec GmbH & Co. KG does not assume liability for the applicability of our construction line with changes made by the manufacturer.
- Kufatec GmbH & Co. KG does not assume liability that the installation of the here described component has been permitted according to the guarantee instructions of particular car manufacturers. Therefore, please consider the guidelines for installation and guarantee conditions of your car manufacturer before installation.
- The manufacturer reserves the right to change components without giving reasons.
- Subject to errors and changes

5 Requirements for the determinable operation

Please use the device only in its the corresponding area.

In case of unprofessional and untypical use, installation or modification the permission for operation and the warranty claim will expire.

6 Note

Make sure that there's enough space at the described position. If there is no space please cancel the installation and contact our technical support.

The use of a sound booster is not permitted without registration in the vehicle papers, in the area of the german StVZO. The noise emission of the vehicle is increased by this retrofit. The regulations of the StVZO must be observed. It is therefore recommended to ask for a specific registration option at the responsible TÜV/DEKRA office before retrofitting. Outside Germany, please observe the laws on vehicle licensing applicable in your country.

7 How to connect a cable to another

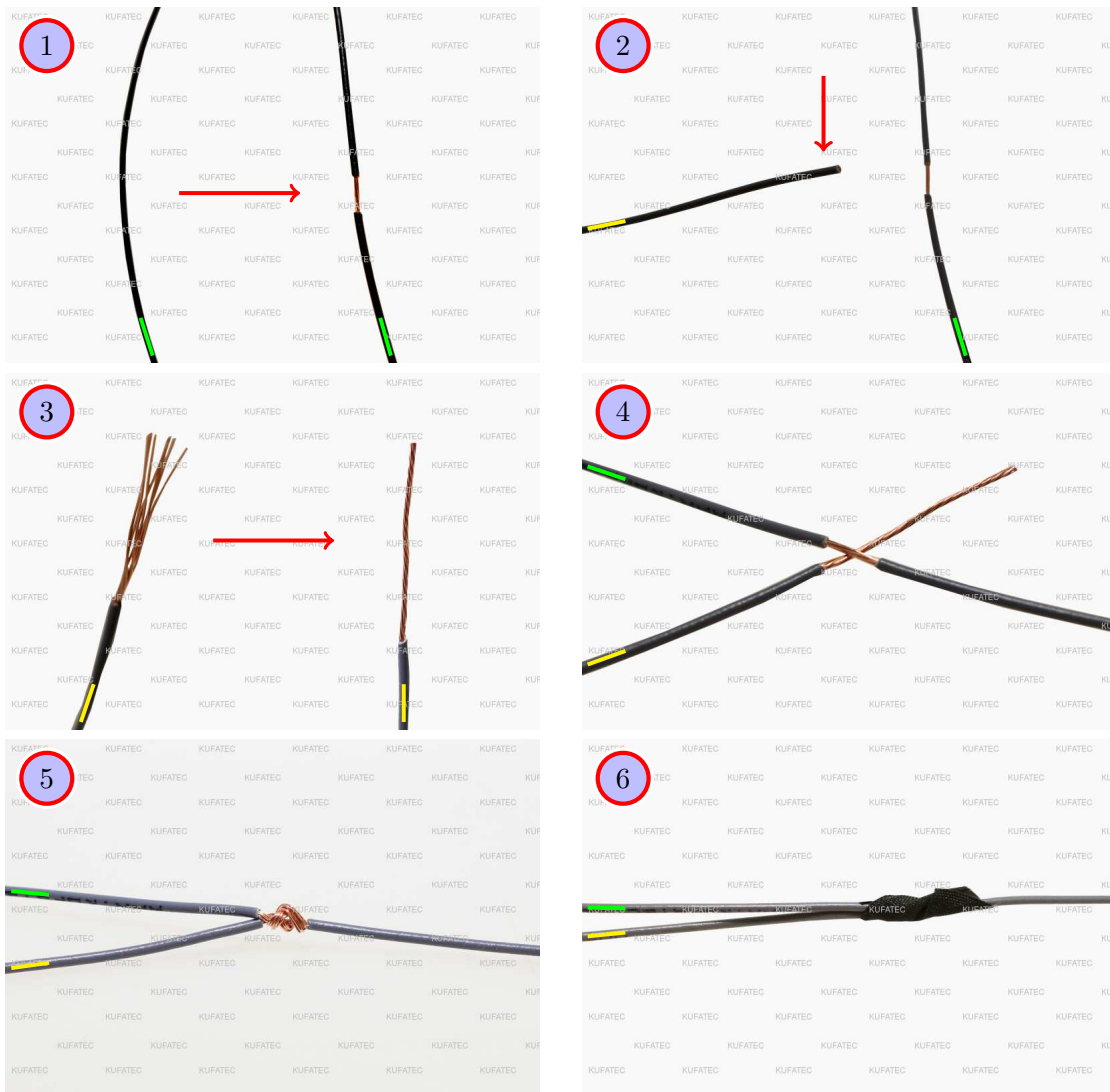


Figure 1: How to connect a cable to another

Table 1: How to connect a cable to another

No.	Work step	Note
1	Take the cable of the vehicle, to which you want to connect, (green marked here) and strip the insulation at one point with a suitable tool (cable stripper/cutter knife).	
2	Now take the cable of the cable set, which you want to connect, (yellow marked here) and strip the insulation at the end.	
3	Twirl the wires of the stripped cable together.	
4	Place the end of the cable you want to connect under the stripped point of the cable of the vehicle...	
5	... and wrap the cable you want to connect around the cable of the vehicle.	
6	Lastly, stick insulating tape around the connection point.	

8 Note Cable Inscription/Color



Figure 2: Cable Inscription

If our cable set consists exclusively of grey wires, connect the wires according to the cable inscription.

9 Assembly Instructions

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

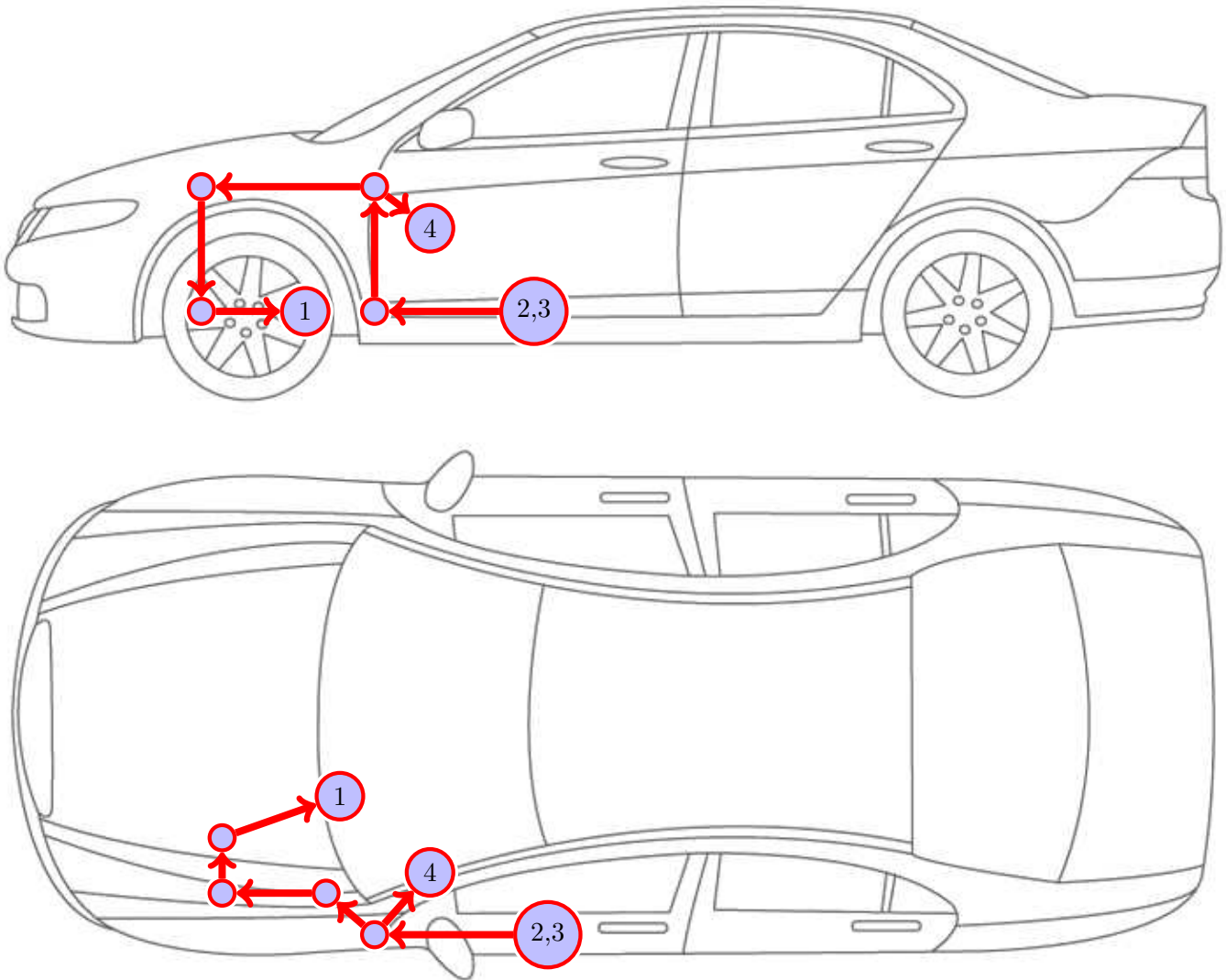


Figure 3: Vehicle overview

- 1 External sound generator incl. mounting plate
- 2 Control unit for engine sound generation
- 3 Sound Booster Pro (module)
- 4 Pushbutton

10 Removing interior trim panel

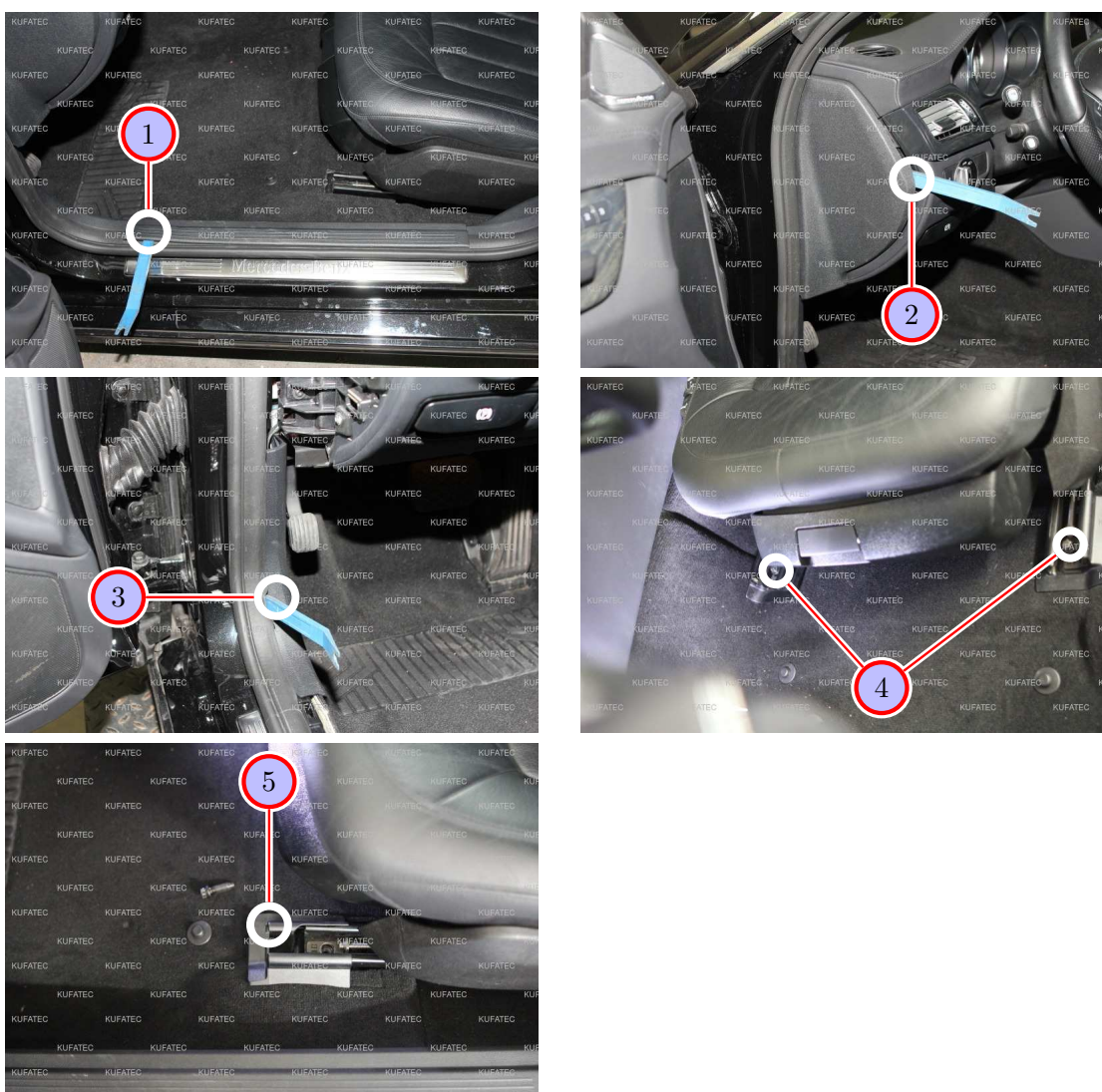


Figure 4: Removing interior trim panel

Table 2: Removing interior trim panel - instructions

Nr.	Work step	Note
1	Remove the sill trim on the driver's side using a trim tool.	
2	Loosen and remove the lateral trim panel of the dashboard using a trim tool.	
3	Remove now the lower trim panel of the a-pillar.	
4	Loosen the two marked screws of the driver's seat.	E14
5	Pull now the marked covering right and left of the driver's seat out from behind and remove it afterwards.	

11 Connection cable set

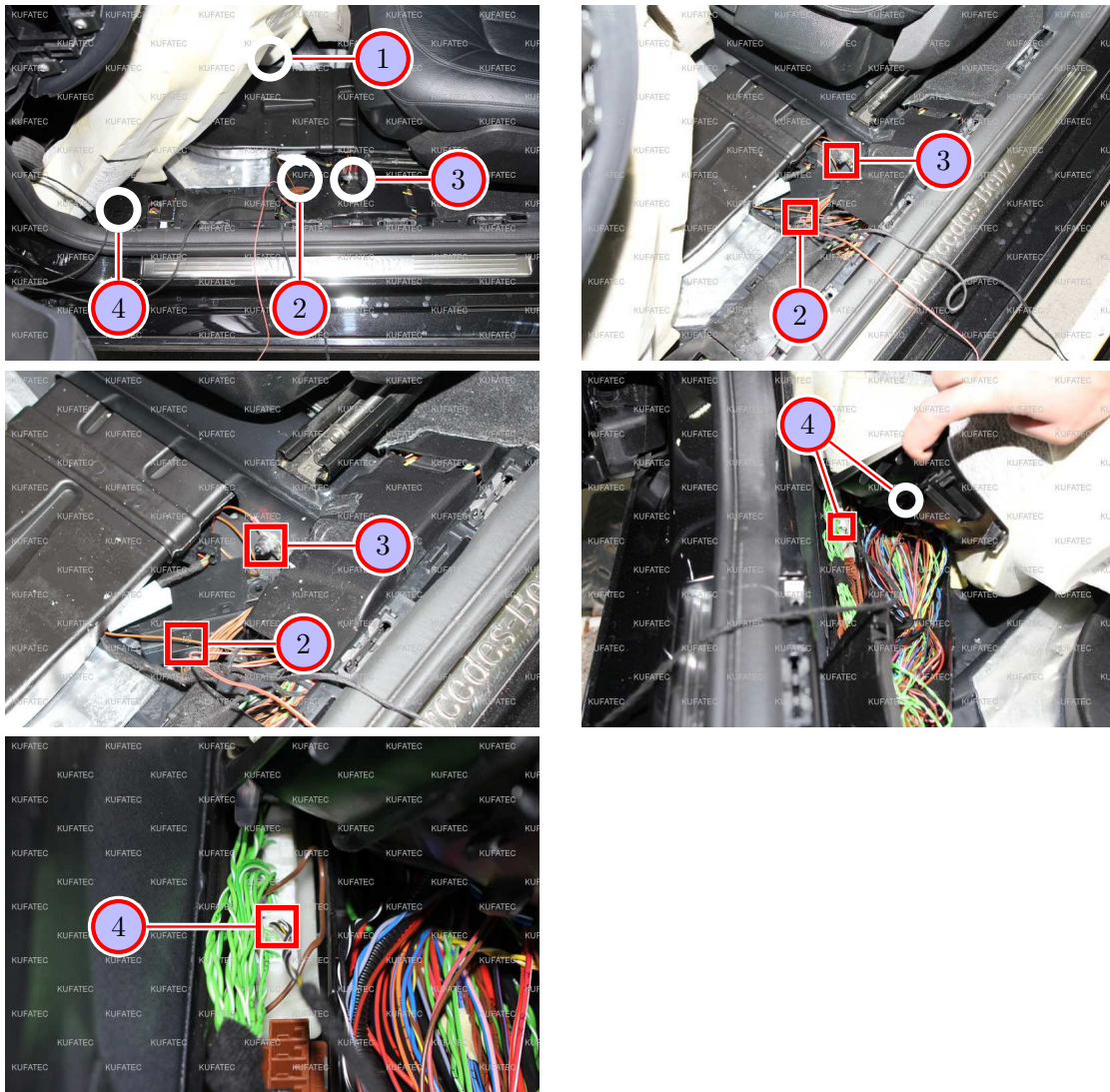


Figure 5: Connection cable set

Table 3: Connection cable set - instructions

Nr.	Work step	Note
1	Fold the carpet in the driver's footwell rearward and uncover thus the cable channels as well as the ground spot.	
2	Connect now the cable set to the control unit and to the sound module and place them at the marked place.	
3	Afterwards connect the ground cable (brown) to the marked ground spot.	
4	Now open the cable channel and uncover thus the CAN distributor. Connect now CAN High (black/white) and CAN Low (black/yellow) to the distributor with the colours of the cables green and green/white.	

12 Connection ignition lead

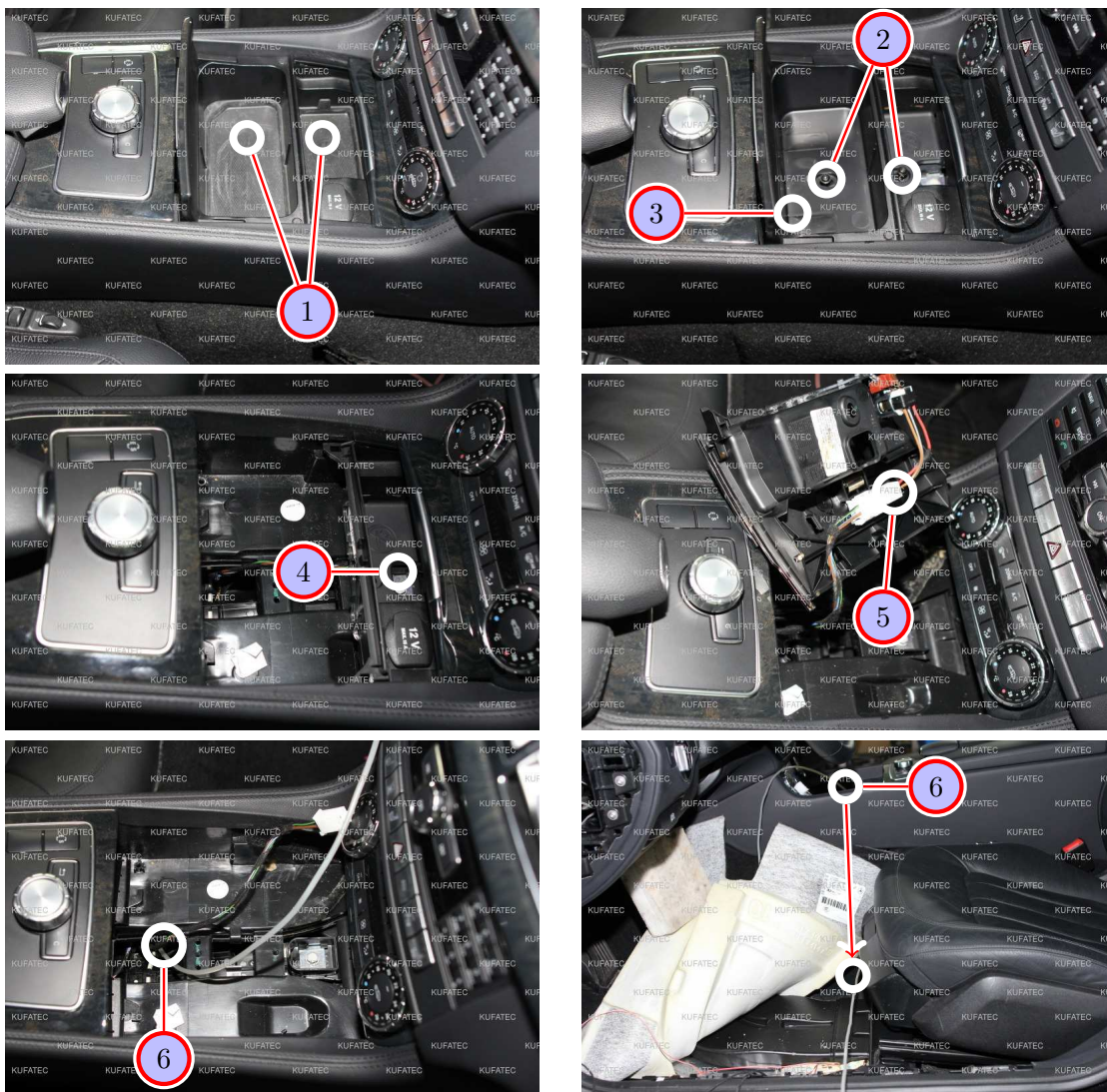


Figure 6: Connection ignition lead

Table 4: Connection ignition lead - instructions

Nr.	Work step	Note
1	Remove the rubber inserts out of the oddments trays.	
2	Loosen now the marked screws in the oddments trays.	T20
3	Remove first the back oddments tray by pulling it up carefully.	
4	Afterwards the front oddments tray can be pulled out from behind carefully.	
5	Loosen the plug connection and remove the oddments tray completely.	
6	Push now a pull through aid from above through the center console and behind the trim panel down in the driver's footwell. Afterwards the cable for ignition lead (red/white) can be pulled up in the center console.	

13 Connection ignition lead / installation pushbutton

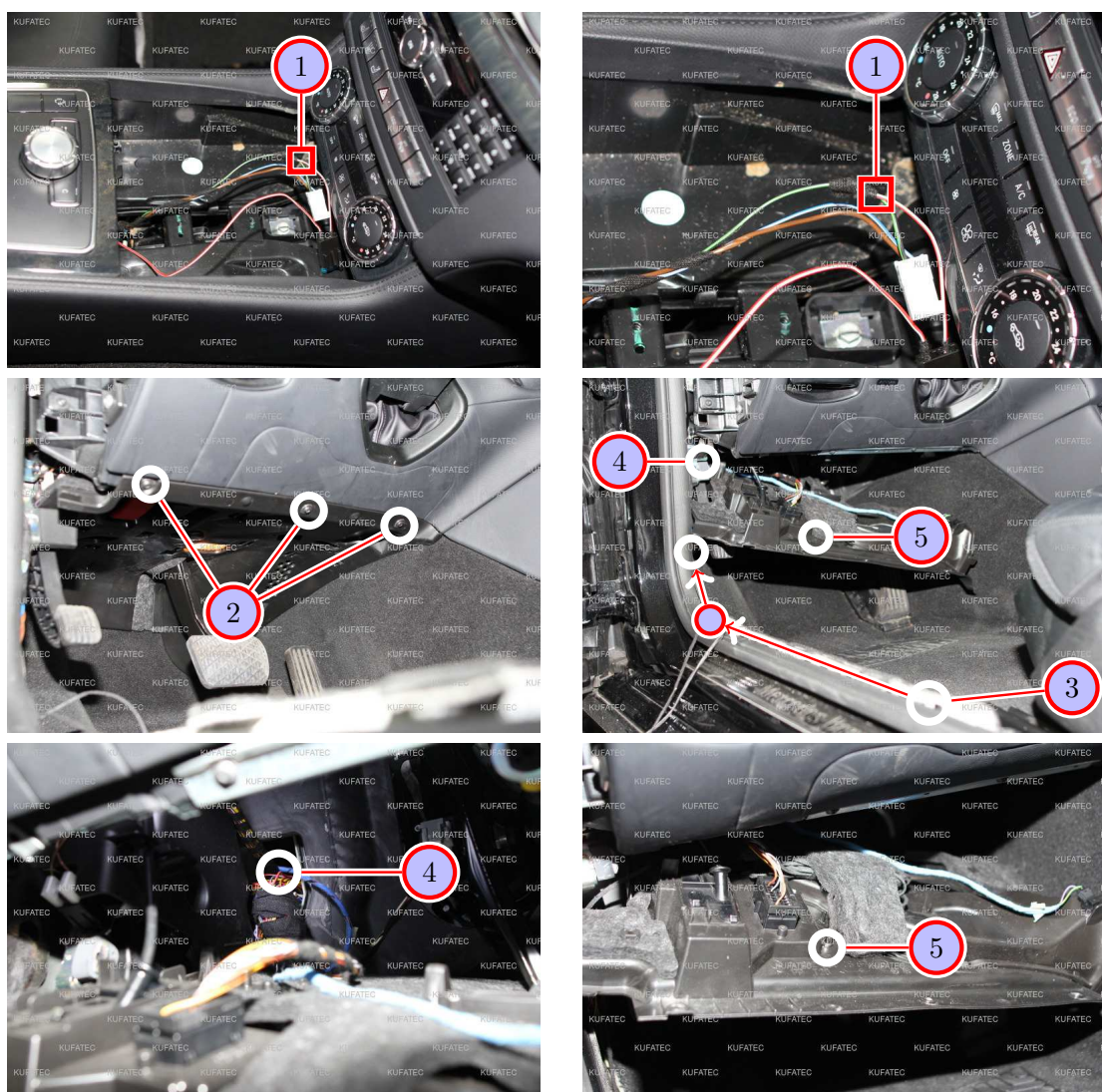


Figure 7: Connection ignition lead / installation pushbutton

Table 5: Connection ignition lead / installation pushbutton - instructions

Nr.	Work step	Note
1	Connect the cable for ignition lead (red/white) to the black/green cable of the cigarette lighter.	
2	Now loosen the marked screws of the lower trim panel of the dashboard.	T20
3	Route now the connecting cable for the sound generator and the cable of the pushbutton along the sill trim behind the dashboard.	
4	Pull now the connecting cable for the sound generator through the opening of the car body above the footrest on the driver's side, in the fuse box in the engine compartment.	
5	Drill a hole for the pushbutton at the marked position and install it afterwards.	7mm

14 Routing connecting cable of the sound generator

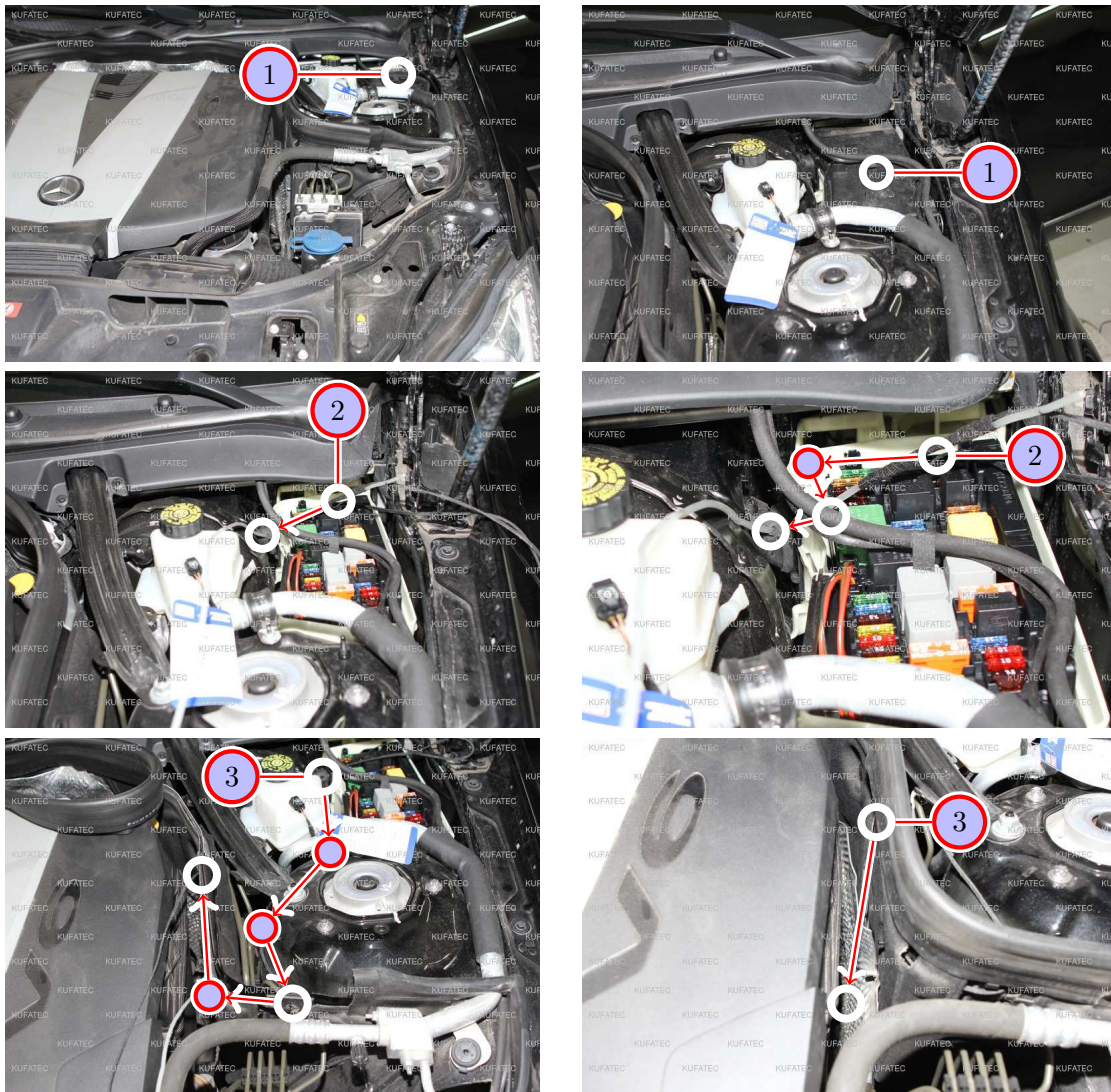


Figure 8: Routing connecting cable of the sound generator

Table 6: Routing connecting cable of the sound generator - instructions

Nr.	Work step	Note
1	Unlock the covering of the fuse box and remove it afterwards.	
2	Pull the connecting cable of the sound generator in the fuse box and route it along the markings. Afterwards guide the connecting cable through the grommet outwards. Waterproof the grommet with suitable workshop material.	
3	Route now the connecting cable along the marking and guide it through the grommet in the engine compartment. Afterwards route the cable behind the heat protection trim panel to the underbody.	

15 Installation sound generator

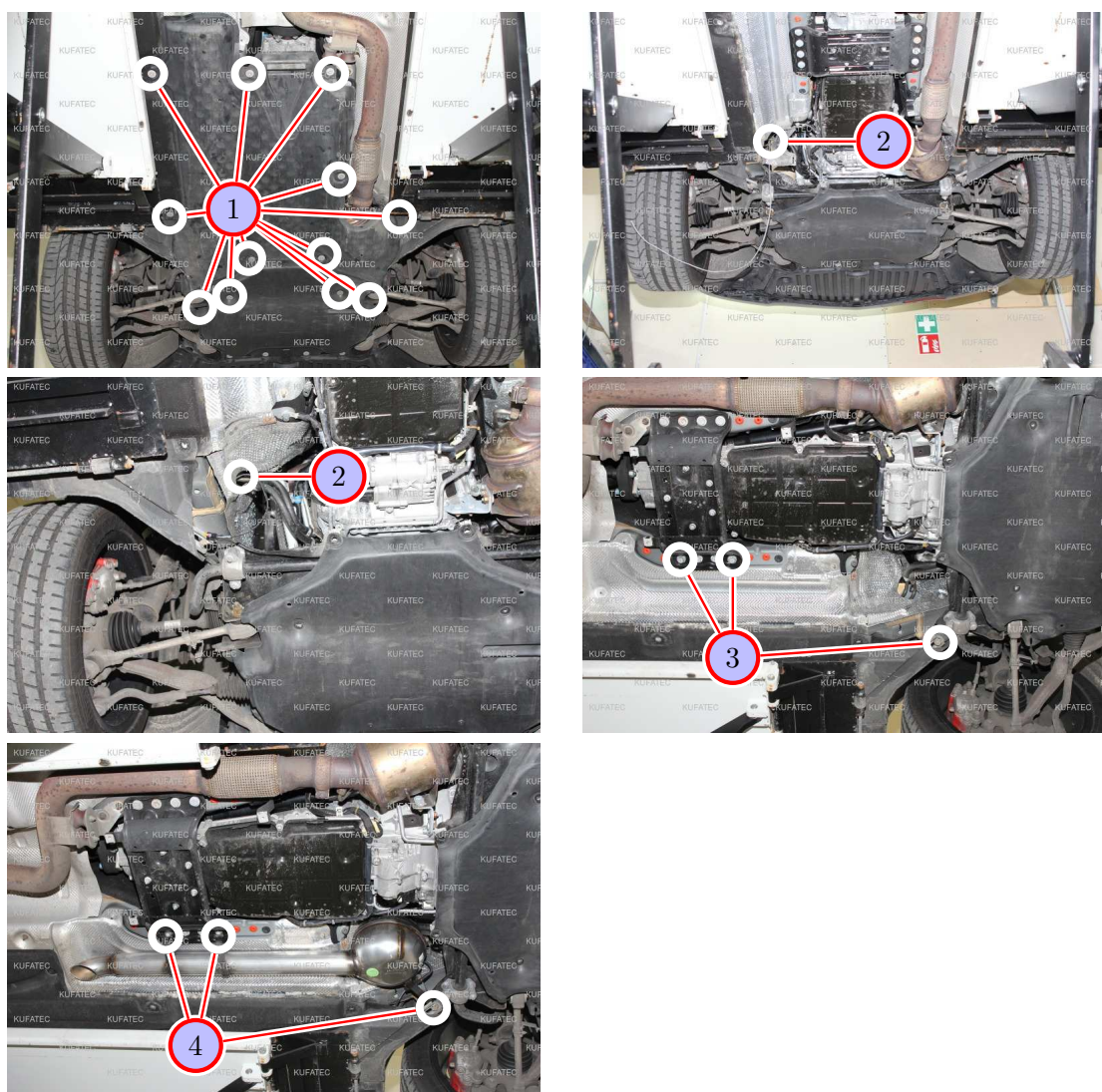


Figure 9: Installation sound generator

Table 7: Installation sound generator - instructions

Nr.	Work step	Note
1	Remove the underride protection by loosening the 12 marked screws.	8er socket
2	Pull the connecting cable for the sound generator at the marked place further through.	
3	Loosen and remove the marked screws.	16er socket
4	Install now the sound generator with the loosened screws at the marked places. For this, the two screws at the black carrier have to be replaced with new 16er screws with a length of 3 cm. These screws are not included in delivery.	16er socket

16 Adaptation underride protection

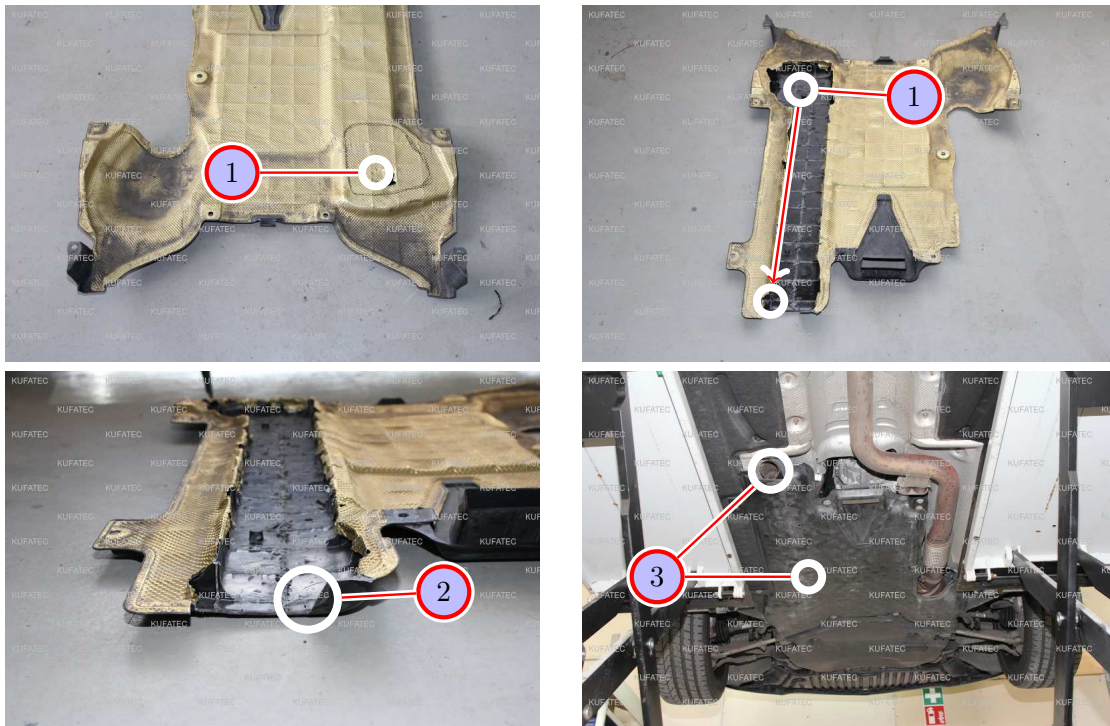


Figure 10: Adaptation underride protection

Table 8: Adaptation underride protection - instructions

Nr.	Work step	Note
1	Remove now the heat protection film at the marked place. Afterwards remove the strut members, which are located beneath, with suitable tools.	
2	Remove also the synthetic fillet at the end of the underride protection, because the outlet tube of the sound generator takes course at this place.	
3	Now install the underride protection at the vehicle and pay attention that the trim panel fits at all spots as usual. If it doesn't fit yet, you have to adapt the openings.	

17 Important Information Sound Booster

Please use for the fixation of the Sound Booster suitable high tensile screws. In order to avoid loosening of the screws by vibration please make the screws safe with appropriate factory material e.g. Threadlock. Please additionally check the stability of the Sound Booster regularly and if necessary retighten the screws. In case of no consideration we do not assume liability for possible damages. After successful installation we recommend to cover the sound generator with a zinc spray. Make sure that you cover the opening of the sound generator so that no zinc spray can't get inside the sound generator.

As additional safety the delivered steel cable and the retaining clips have to be tightened on the Sound Booster as well as at a suitable position in the car. This safety cable is an additional security should the tightening screws should be released by vibration.

List of Figures

1	How to connect a cable to another	6
2	Cable Inscription	7
3	Vehicle overview	8
4	Removing interior trim panel	9
5	Connection cable set	10
6	Connection ignition lead	11
7	Connection ignition lead / installation pushbutton	12
8	Routing connecting cable of the sound generator	13
9	Installation sound generator	14
10	Adaptation underride protection	15

List of Tables

1	How to connect a cable to another	6
2	Removing interior trim panel - instructions	9
3	Connection cable set - instructions	10
4	Connection ignition lead - instructions	11
5	Connection ignition lead / installation pushbutton - instructions	12
6	Routing connecting cable of the sound generator - instructions	13
7	Installation sound generator - instructions	14
8	Adaptation underride protection - instructions	15