



KUFATEC ML W166 Complete Set Active Sound incl. Soundbooster Instruction Manual

[Home](#) » [KUFATEC](#) » KUFATEC ML W166 Complete Set Active Sound incl. Soundbooster Instruction Manual 



Installation Instructions

Complete Set Active Sound incl. Soundbooster
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Contents

- [1 Liability Exclusion](#)
- [2 Copyright](#)
- [3 General notes](#)
- [4 Safety Instructions](#)
- [5 Requirements for the intended use](#)
- [6 Note](#)
- [7 How to connect a cable to another](#)
- [8 Note Cable Inscription/Color](#)
- [9 Assembly Instructions](#)
- [10 Assembly Note](#)
- [11 Connection cable set](#)
- [12 Laying button cable](#)
- [13 Assembly button / Laying sound generator cable](#)
- [14 Assembly sound generator](#)
- [15 Software](#)
- [16 Important Information Sound Booster](#)
- [17 Documents / Resources](#)
 - [17.1 References](#)
- [18 Related Posts](#)

Liability Exclusion

Dear Customer,

Our cable sets are developed according to the connection- and circuit diagrams of the corresponding car manufacturers. Before the serial production, the cable sets will be adjusted and tested on an original vehicle. Therefore, the integration into the vehicle electronics follows the guidelines provided by the car manufacturer. Our installation instructions correspond to what is common in the vehicle electric/electronic regarding the required pre-understanding and the accuracy of the description in text and picture. They have proven its worth in practice hundreds of times.

If you should experience any difficulties while installing one of our products, we are available to provide support via phone or email. Additionally, we offer you to execute the installation in our workshop in Bad Segeberg.

Costs, arising from third parties assigned with the installation of our products, are not being covered by us. We will only compensate the proven costs of the assembly and the costs of the disassembly of the defective product, if it turns out that there is an issue with our product. We limit the reimbursement of costs up to 110 Euro gross and reserve the right to verify the claim in our workshop in Bad Segeberg. The costs for shipping will be refunded if the claim is justified.

We made the experience, that every professional workshop that is equipped with the necessary diagnostic devices, the diagnostic software and the manufacturer's circuit diagrams, is able to find any possible defects in one of our products in a short period of time. The assembly and disassembly including troubleshooting the issue should therefore only take up to 60 minutes.

We also made the experience, that many professional workshops are not able to cope with the manufacturer's circuit diagrams and can't read common wiring schemes, which results in the calculation of several hours for the simplest installations. You will understand the fact, that we can neither take the risk of finding a reliable workshop for you, nor can we finance the training of the employees of your trusted workshop.

Costs, arising from purchasing missing parts or replacements for defective parts from other suppliers, are covered by us up to the amount that the subsequent delivery would have caused (saved expenses). According to the legal warranty law, there would be no reimbursement right, if there was no deadline for the subsequent fulfilling set or the deadline for a subsequent fulfilling hasn't expired.

That being said, if you have any problems during the installation or operation of one of our products call us, write us an email, send us the product or come by our workshop in Bad Segeberg with your vehicle. We are certain, that we can find a solution for any kind of concern.

Kind regards,

Your Kufatec GmbH & Co. KG Team

Copyright

Our installation and operation instructions, installation plans, software and other written and/or pictured documentations are protected by copyright.

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

General notes

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 the following instruction manual fully and thoroughly 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.

Depending on each product and purpose, it might be necessary to check each country's legal regulations before installing and starting it.

In case of warranty claims, the product 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 warranty claim as well as the operating permission becomes invalid due to:

- unauthorized changes to the device or accessories which have not been approved or carried out by the manufacturer or its partners
- opening the casing of the device
- repairing the device on one's own
- improper use/operation
- brute force to the device (drop, willful damage, accident etc.)

During the installation, please pay attention to all safety relevant and legal directions. The device should only be installed by trained personnel or similarly qualified people.

In case of installation problems or problems concerning the functionality of the device, limit the time to approx. 0,5 hours for mechanical or 1,0 hours for electrical troubleshooting.

To avoid unnecessary costs and time-loss, send in an immediate support-request, via the Kufatec-contactform (<http://www.kufatec.de/shop/de/infocenter/>). In case of, let us know the following:

- Car chassis number/vehicle identification number
- Five-digit part number of the device
- Exact description of the problem
- Steps you have taken to solve the problem

Safety Instructions

The installation should only be performed by trained personnel. Only perform installations while in a voltage-free state. For example, disconnect the battery. Please pay attention to the instructions provided by the manufacturer.

- 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 places that would restrict you from driving safe or where it could damage the car's other fittings.
- This device should only be used in combination with the mentioned vehicles. Only connections described within this instructions guide are allowed or required to use for installation.
- For damages caused by faulty installation, unsuitable connections or inappropriate vehicles, Kufatec GmbH & Co. KG 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 & Co. KG assumes no liability.

- Kufatec GmbH & Co. KG 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 & Co. KG assumes no liability. Please, check conditions and warranty before you begin the installation.
- Kufatec GmbH & Co. KG reserves the right to change the device specifications without notice.
- Subject to errors and changes.

Requirements for the intended use

Only use this device in its intended area.

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

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 V/DEKRA office before retrofitting. Outside Germany, please observe the laws on vehicle licensing applicable in your country.

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. Make sure that the isolation is put onto the connection professionally to prevent corrosion.	

Note Cable Inscription/Color



Figure 2: Cable Inscription

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.

Assembly Instructions

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

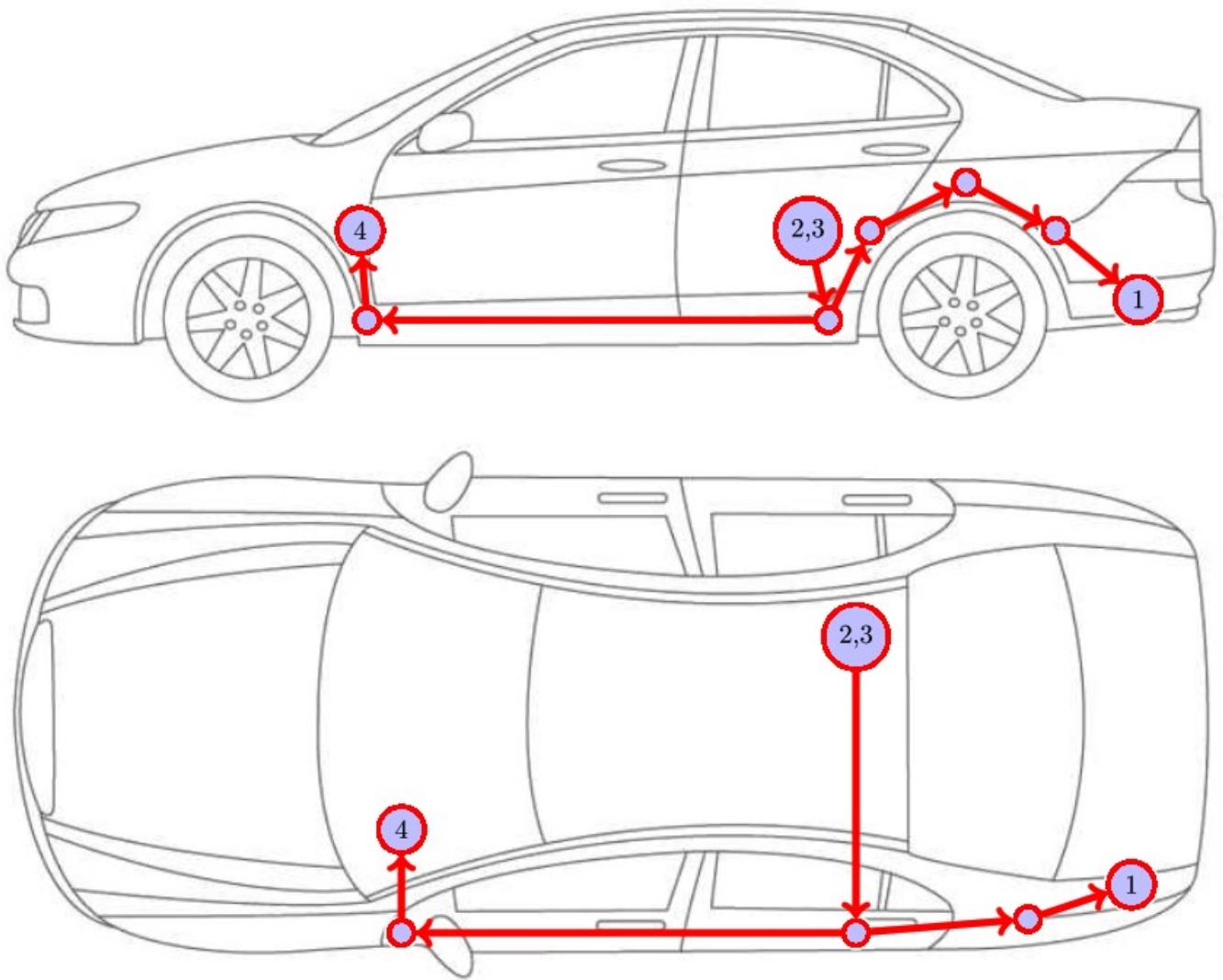


Figure 3: Vehicle Overview

- 1 External sound generator incl. holder
- 2 Control unit for engine sound generation
- 3 Sound Booster Pro (Module)
- 4 Button

Please be aware, that this overview is only for illustration purposes. Always lay the cable set in the most convenient and shortest way possible. For a detailed description of the cable routing, please refer to the relevant sections of the following manual.

Assembly Note

Important note for the assembly

- The vehicle used for the assembly instruction was a Mercedes ML W166. We would like to point out, that the disassembly of the individual parts can vary depending on the type of vehicle. Please make sure to keep that in mind.

Notes for assembling the vehicle

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

Connection cable set

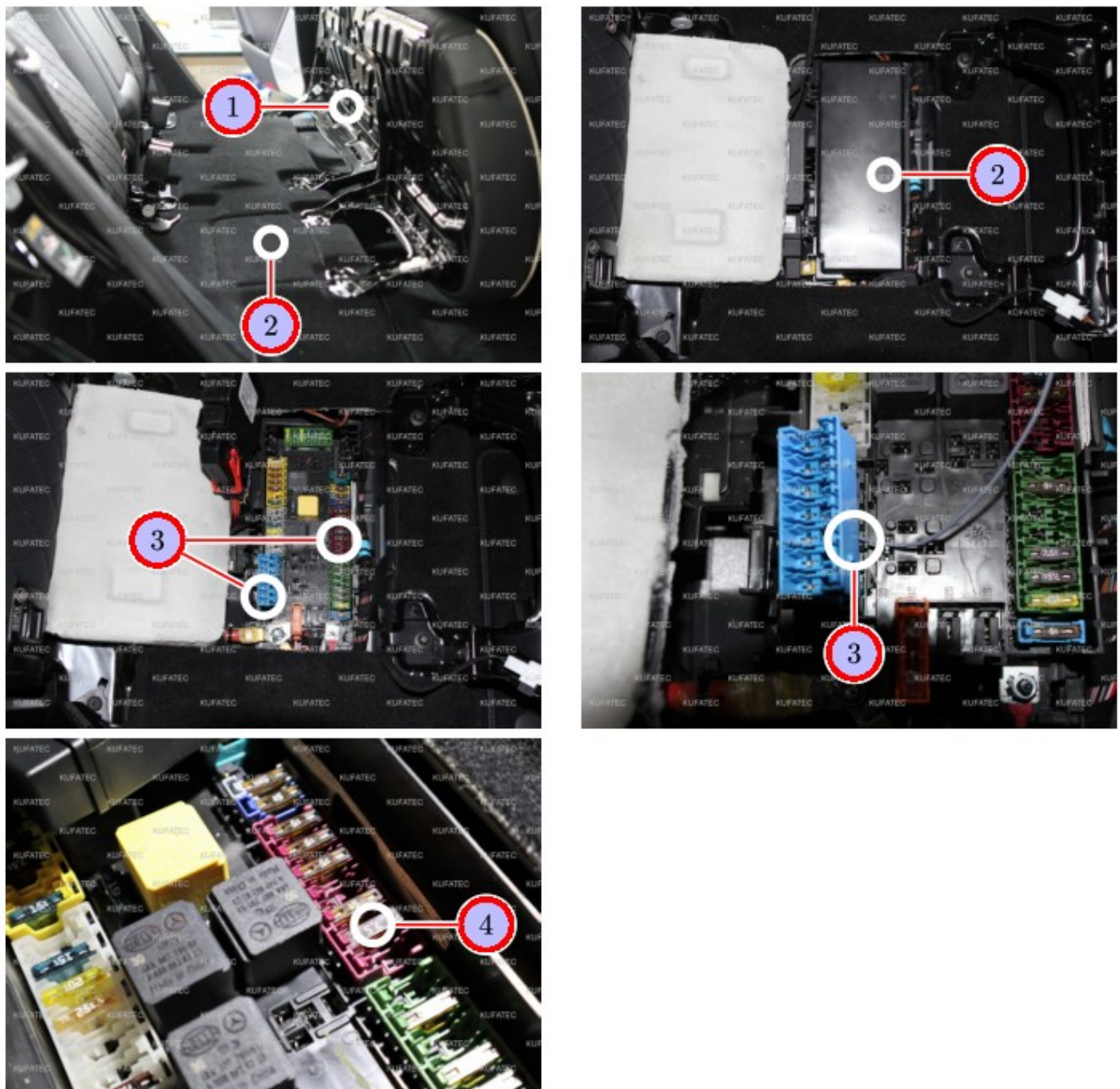


Figure 4: Connection cable set

Table 2: Instructions to connect the cable set

No.	Work step	Note
1	Flip the back seats upwards.	
2	Underneath the back seat fold the carpet aside to uncover the fuse case. Now remove the covering of the fuse box.	
3	Look for an ignition plus slot by using a multimeter (blue or wine-red fuse holder). Remove the fuses from the fuse holder as well as the relays beside it. Please note from which plug-in position you have removed which fuse or relay.	
4	Unlock the fuse holder, pin the cable for ignition plus (red/white) into the slot from behind and secure it afterwards by using a 7,5A-fuse.	

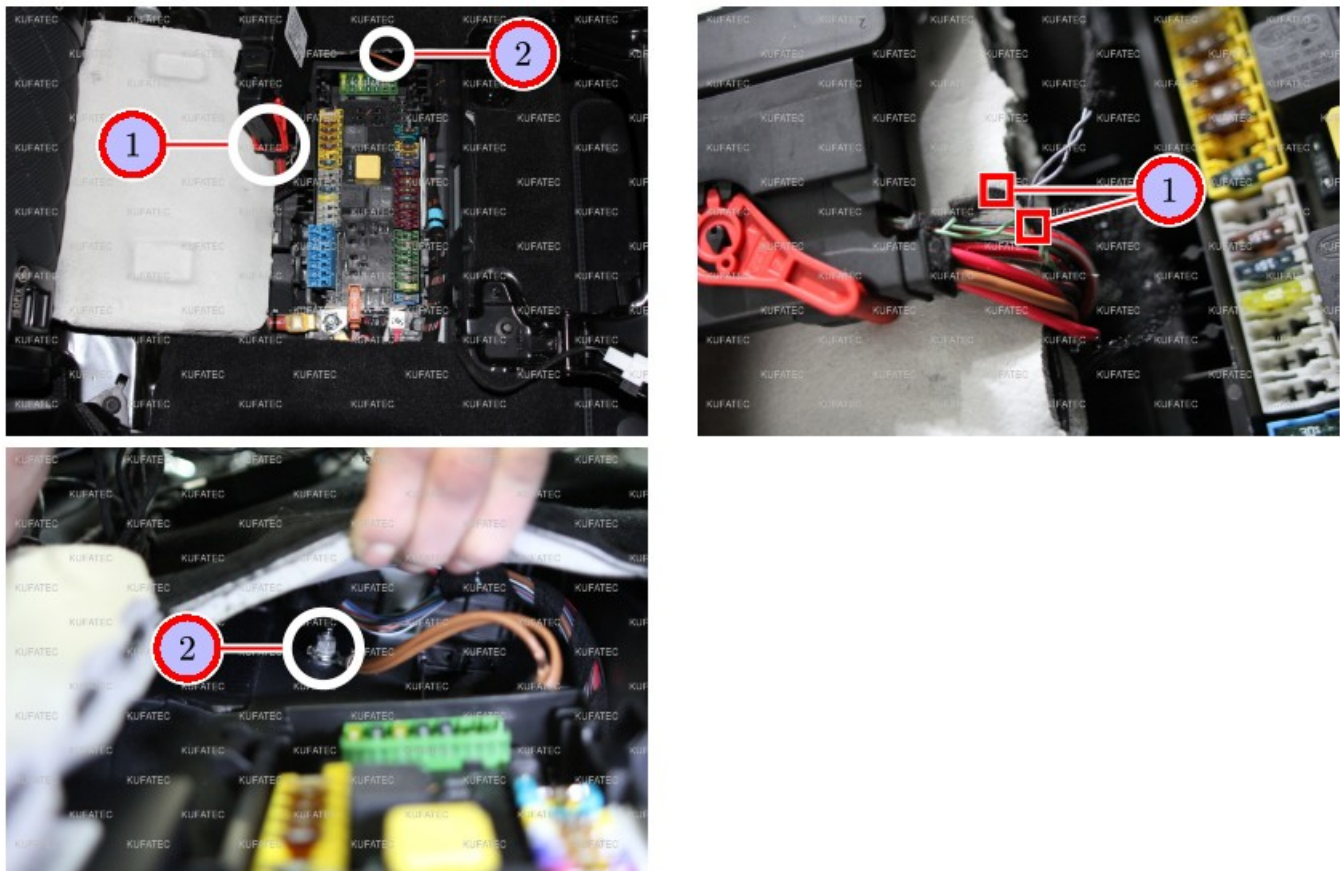


Figure 5: Connection cable set

Table 3: Instructions to connect the cable set

No.	Work step	Note
1	Pull the control unit out from under the carpet and connect CAN High/Low as follows (green/white and green twisted cables): CAN High (black/white) to green/white (cable color at plug) CAN Low (black/yellow) to green (cable color at plug) Isolate the connection professionally afterwards.	
2	Lift the carpet at the marked spot up carefully and connect the ground cable (brown) to the ground pin located underneath.	

Laying button cable

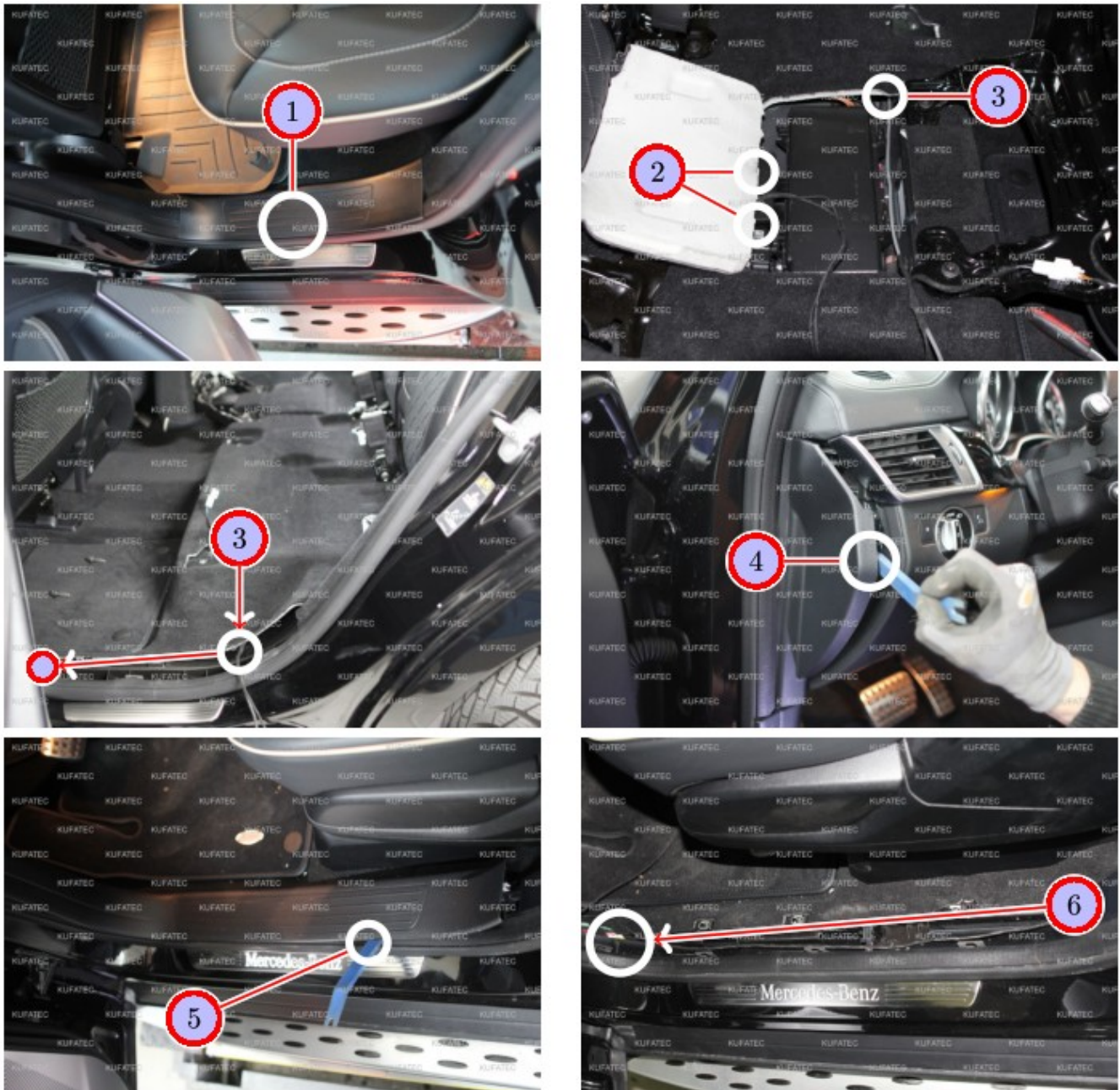


Figure 6: Laying button cable

Table 4: Instructions to lay the button cable

No.	Work step	Note
1	Remove the rear door sill trim at the driver's side by using a trim tool.	
2	Connect the Control Unit and the Sound Module with the cable set and store it at the marked position.	
3	Use a pull through aid to pull the sensing device cable underneath the carpet along the driver's side to the back and afterwards up to the B-pillar.	
4	Remove the lateral covering on the car dashboard by using a trim tool.	
5	Remove the front door sill trim at the driver's side by using a trim tool.	
6	Now continue to route the sensing device cable underneath the covering of the B-pillar to the footwell on the driver's side.	

Assembly button / Laying sound generator cable

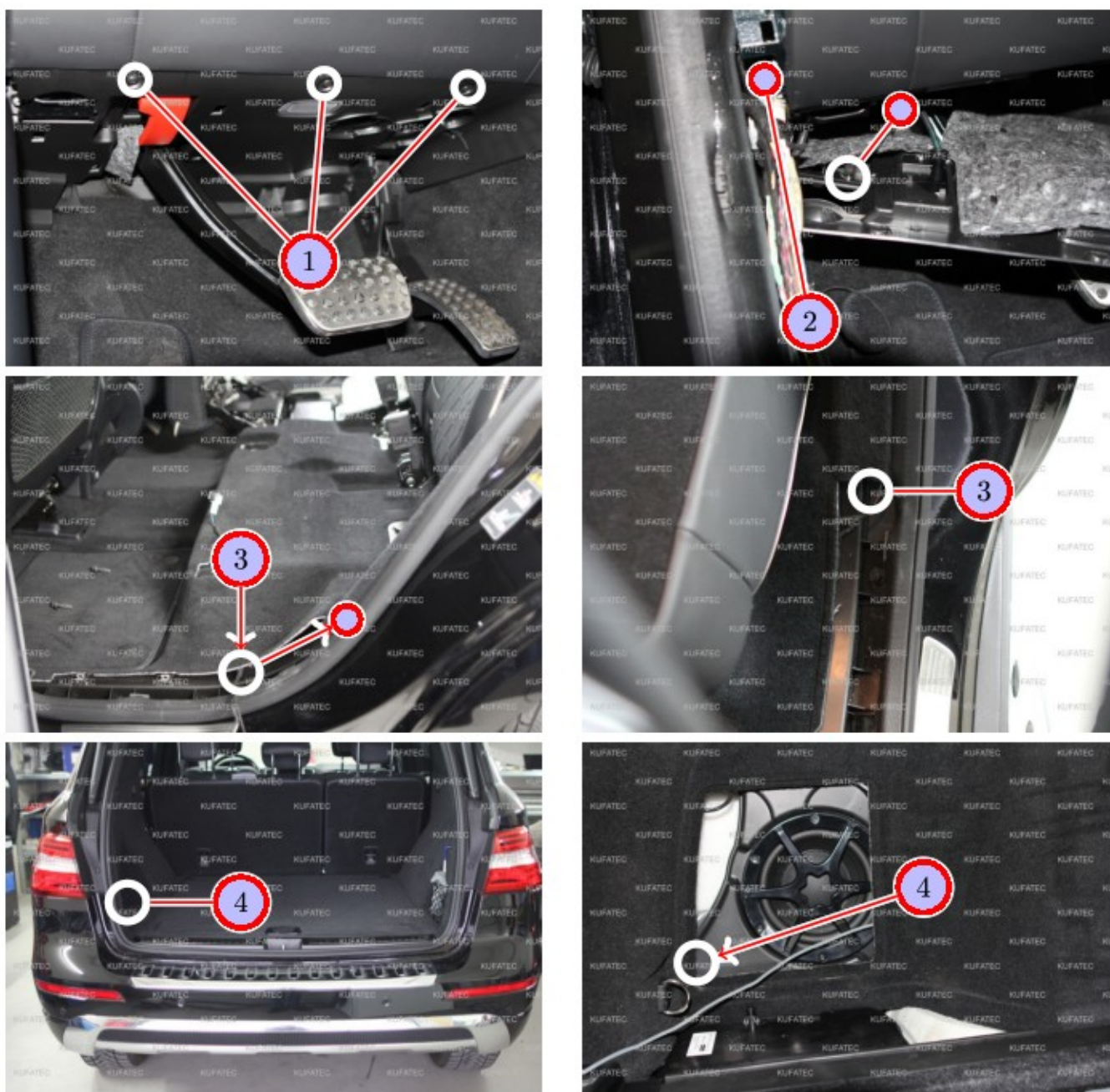


Figure 7: Assembly button / Laying sound generator cable

Table 5: Instructions to assemble the button / lay the sound generator cable

No.	Work step	Note
1	Remove the lower dashboard cover by loosen the marked screws.	
2	Route the sensing device cable upwards to the car dashboard and drill a hole for the sensing device at the marked position. Afterwards the sensing device can be installed.	
3	Use a pull through aid to pull the connecting cable for the Sound Booster underneath the carpet towards the driver's side and continue routing it behind the side covering into the trunk.	
4	Remove the lateral trunk covering at the driver's side and continue to route the connecting cable. Afterwards route the cable through the car protective sleeve down to the underbody.	

Assembly sound generator

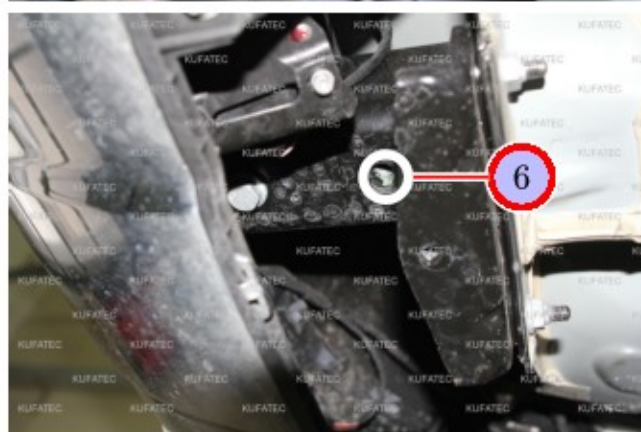
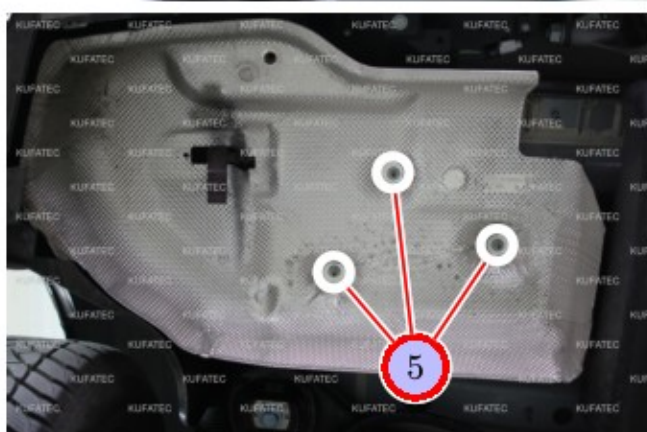
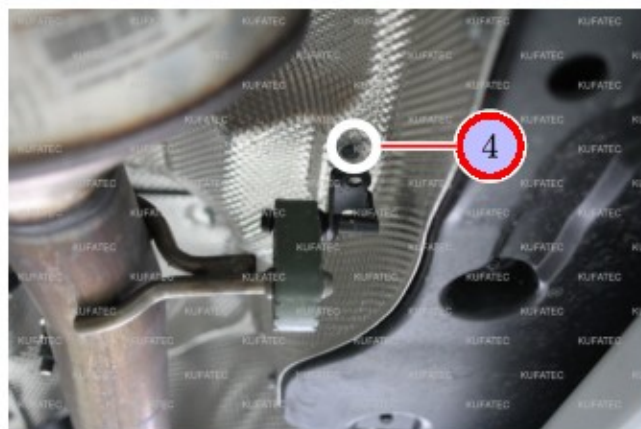
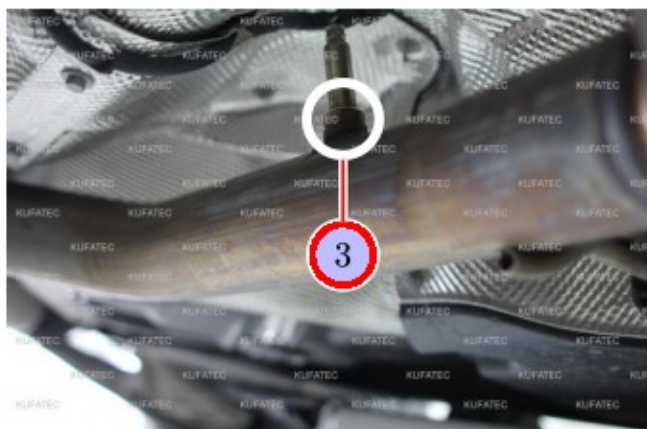
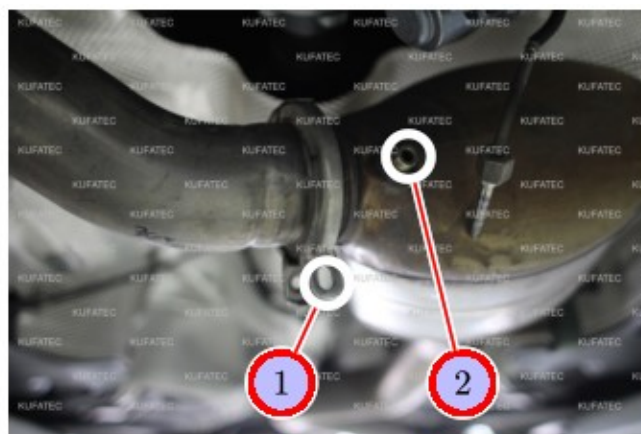
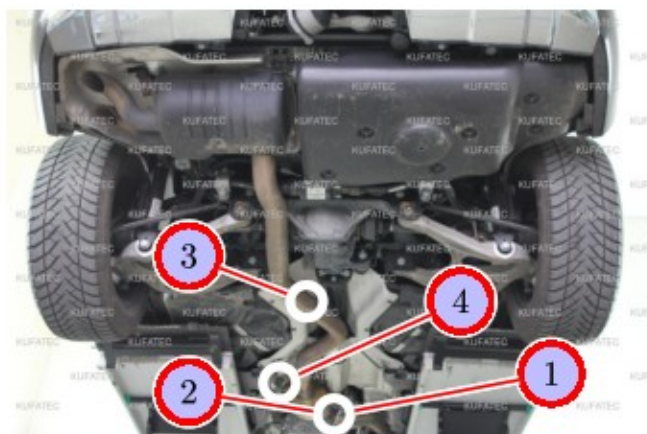


Figure 8: Assembly sound generator

Table 6: Instructions to assemble the sound generator

No.	Work step	Note
1	Release the screw of the clamp at the marked position.	E14 Star Key
2	Release the sensor of the middle sound absorber.	17er
3	Remove the sensor of the exhaust pipe between end sound absorber and middle sound absorber.	20er
4	Release and remove the screws for the exhaust mounting. Afterwards the exhaust pipe can be removed.	13er Nut
5	Remove the heat protection plate by loosen the indicated screws.	8er Nut
6	Loosen the marked screw at the crash protection.	19er Nut

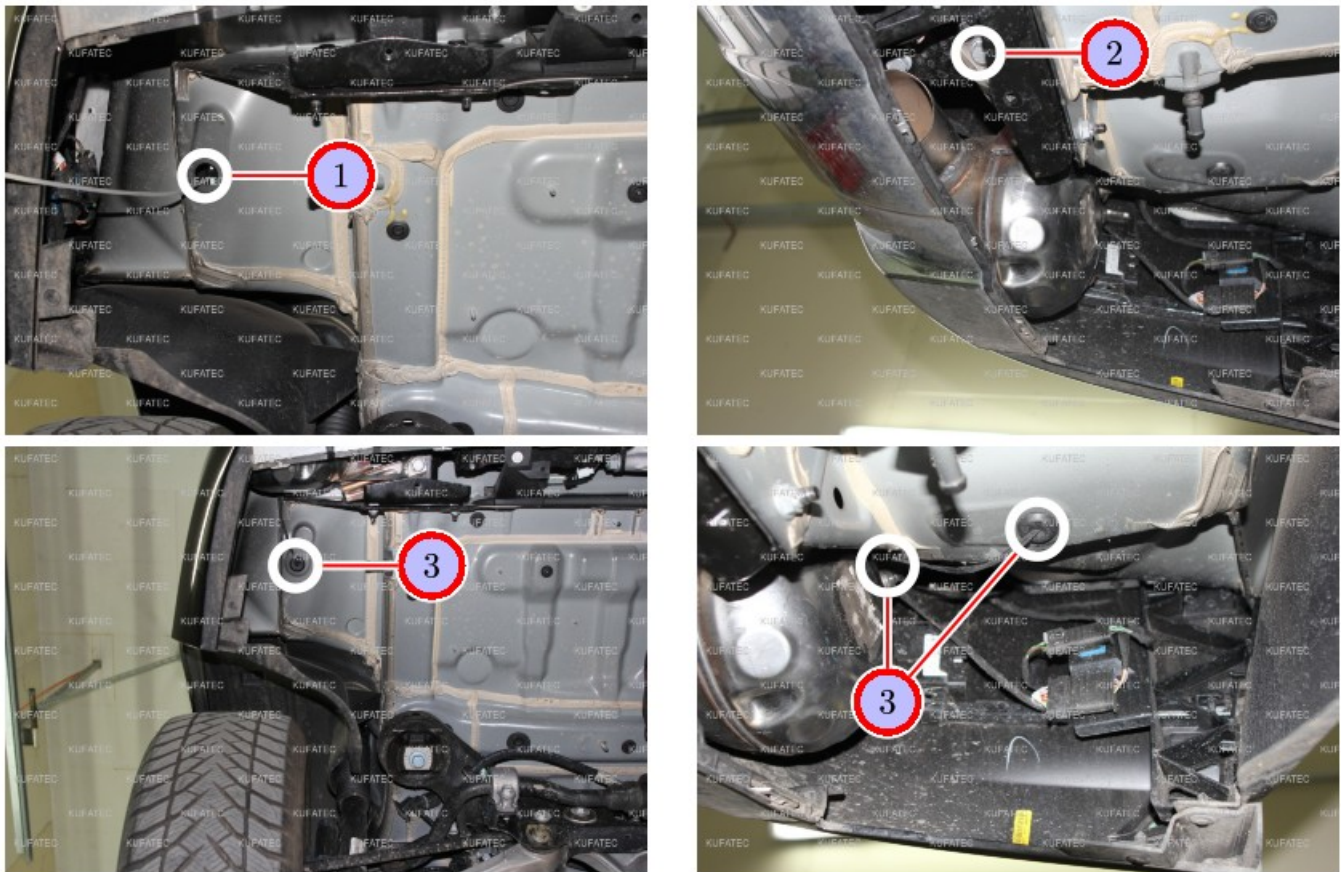


Figure 9: Assembly sound generator

Table 7: Instructions to assemble the sound generator

No.	Work step	Note
1	Remove the marked rubber grommet and pull the connecting cable for the sound booster through it.	
2	Now install the sound booster with the screw you removed before.	19er Nut
3	Afterwards close the crash protection with the rubber grommet and waterproof it additionally.	

Software

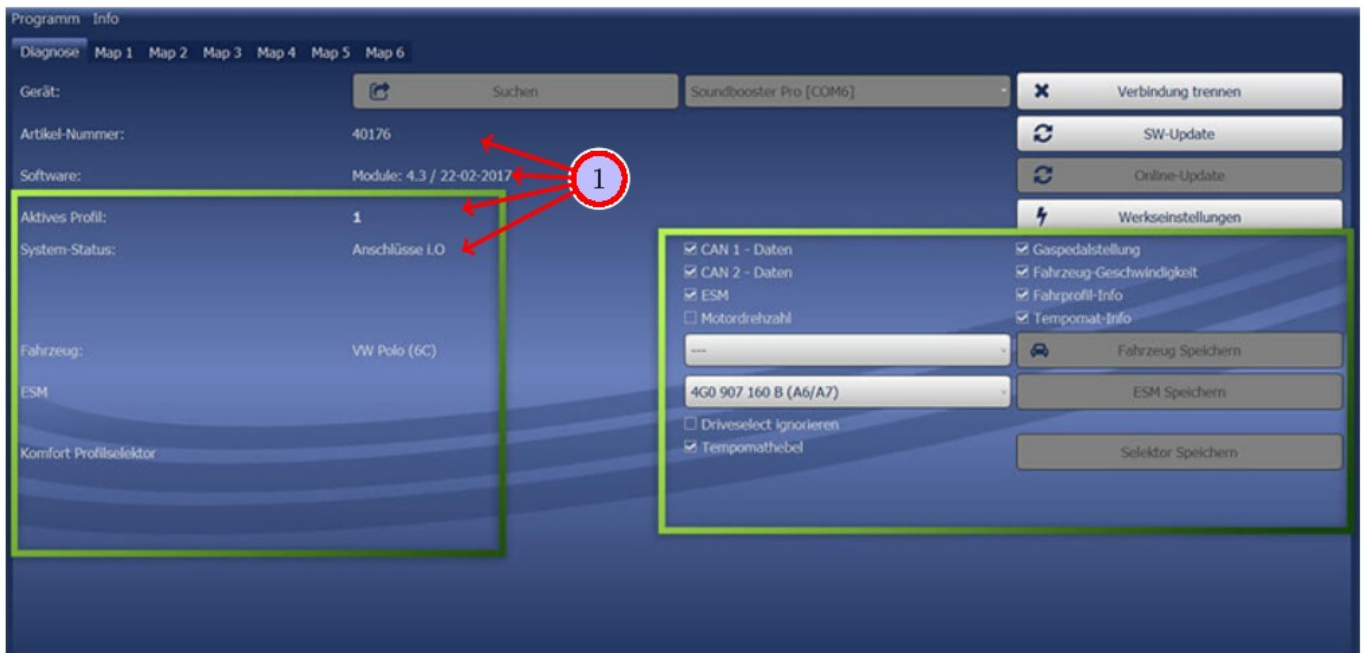


Figure 10: Software

Table 8: Notes for the software

No.	Work step	Note
1	<p>If the system does not work after the installation, please check if the system was installed correctly by having a look on the following link: https://www.sound-booster.com/en/debugging.html. Our Sound Booster Software for PC / Mac should be used for the commissioning or further debugging:</p> <p>Step 1: Download the appropriate software via the following link: https://www.sound-booster.com</p> <p>Step 2: Turn the ignition of the vehicle on and only then connect the PC / Mac with a USB-cable to our module. It is important to check beforehand if plus and minus are connected correctly. If this is not the case, it could result in a damage to the computer or to the control unit.</p> <p>Step 3: Start the downloaded software and click on search first and then on connect. You will be automatically forwarded to the diagnosis site, on which you can see the following things at a glance:</p> <p>Software: Software version / creation date</p> <p>Active profile: The actually activated profile is indicated here.</p> <p>Vehicle: The automatically identified vehicle is indicated here.</p>	
	<p>System status: Here you can tell, if the connections are correct.</p>	

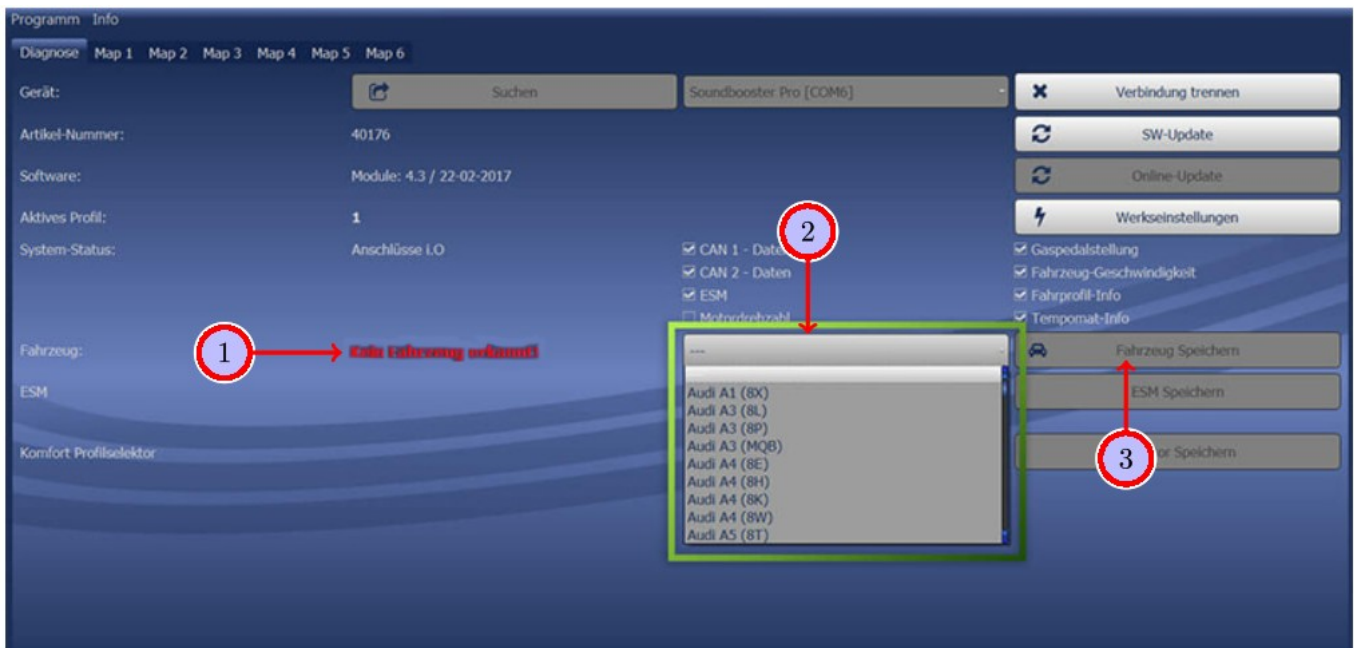


Figure 11: Software

Table 9: Notes for the software

No.	Work step	Note
1	If no current vehicle is identified, you have to select the vehicle via the manual selection as follows:	
2	Open the dropdown-menu, search for your vehicle and select it.	
3	Click on Save Carir Diently save the vehicle to the module. al	
	If you don't find your vehicle in the list, it might be necessary that the software has to be adapted to your vehicle. In that case, please contact us via e-mail: infoi@kufatec.de or by phone: +49 (0) 4551 / 80 810 888. We will make an appointment with you, where we will adapt the software to your vehicle per Team Viewer (remote maintenance).	

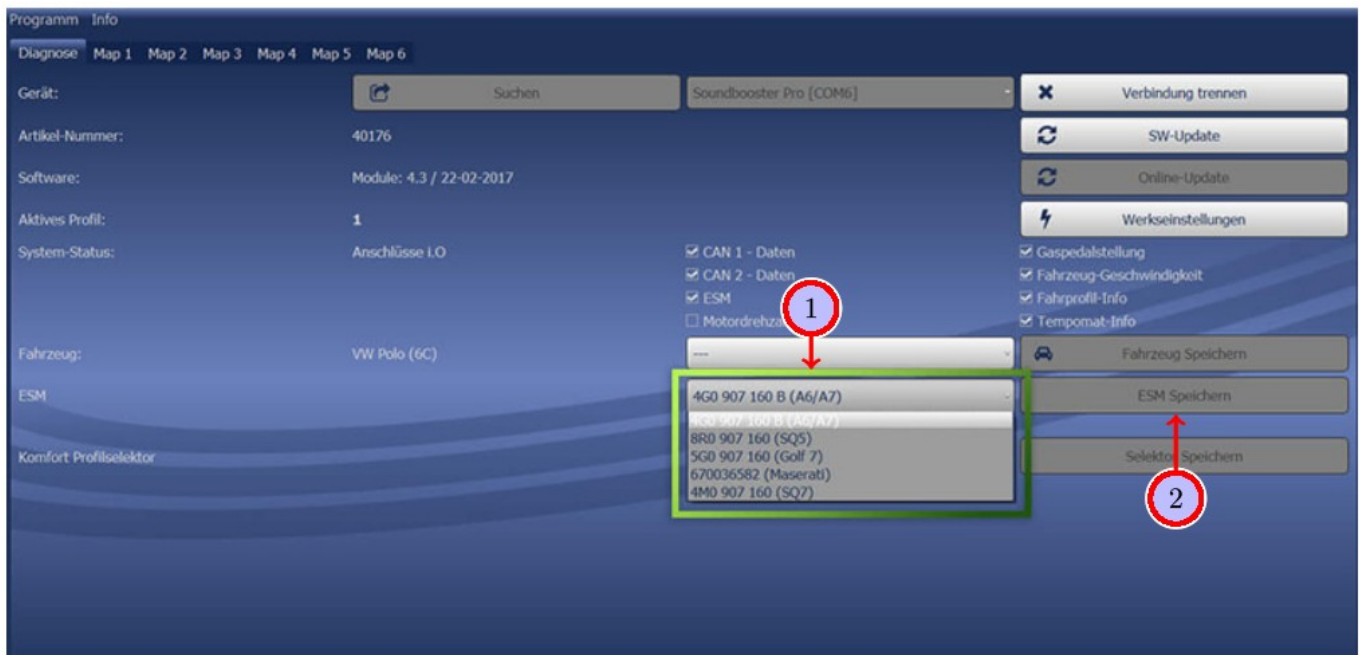


Figure 12: Software

Table 10: Notes for the software

No.	Work step	Note
1	You also need to check if the right ESM is selected in our software: Open the dropdown-menu, search for the correct ESM and select it.	
2	Click on Save ESM to permanently save the ESM to the module.	
3	For example, if you ordered a complete set with a Audi control unit you need to select the ESM 4G0 907 160 B (A6/A7). If you installed the Maserati control unit instead of the Audi c control unit you need to select the ESM 670036582 (Maserati).	
	If the system does not work after all please get in contact with us via e-mail: info@kufatec.de or by phone: +49 (0) 4551 / 80 810 888. We will check the issue as soon as possible.	

Important Information Sound Booster

Please use suitable screws that can withstand high loads of impact to attach the sound generator. In order to avoid loosening of the screws due to the vibration, please secure the screws with appropriate factory material e.g


thread lock. Please additionally check the stability of the Sound Booster regularly and if necessary retighten the screws. In case of non-compliance we do not assume liability for possible damages.

After a 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 the zinc spray can't get inside the sound generator.

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

Kufatec GmbH & Co. KG – Dahlienstr. 15 – 23795 Bad Segeberg – e-mail: info@kufatec.de

Documents / Resources

	<p>KUFATEC ML W166 Complete Set Active Sound incl. Soundbooster [pdf] Instruction Manual</p> <p>ML W166, Complete Set Active Sound incl. Soundbooster, Active Sound incl. Soundbooster, Complete Set Active Sound, Soundbooster, Active Sound</p>
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References

- [K Contact form | Support, phone | KUFATEC Deutschland](#)