



Installation Instructions

Cable set seat heating

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Einzellicenz Simply NetTrade GmbH - Almarstr. 4 - 74532 Ilshofen. Herstellerkennung für 1398827 Tom Hilton

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1 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

2 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.

3 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-contact-form (<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

4 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.

5 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.

6 How to connect a cable to another

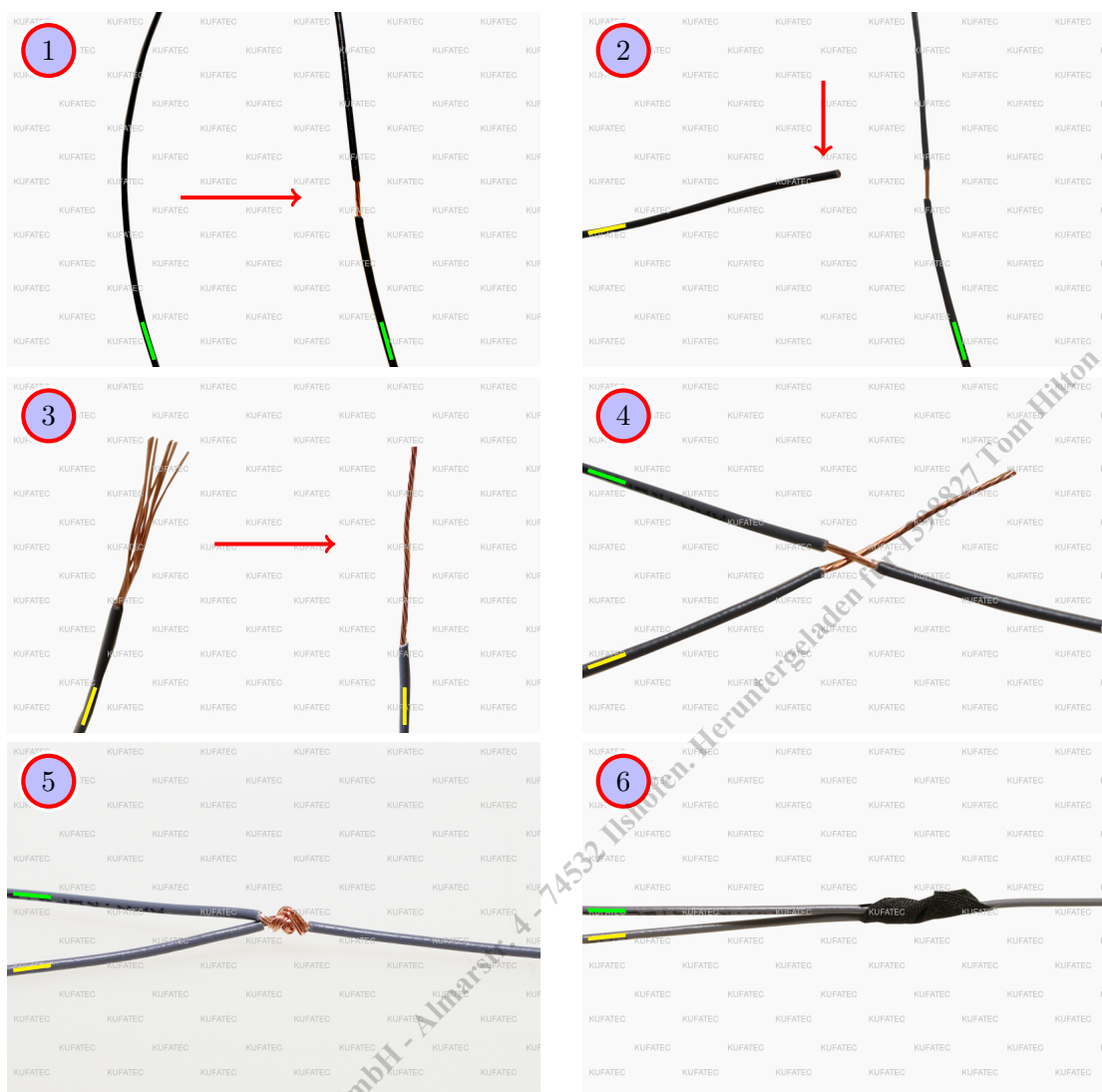


Figure 1: How to connect a cable to another

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.	

7 Note Cable Inscription/Color

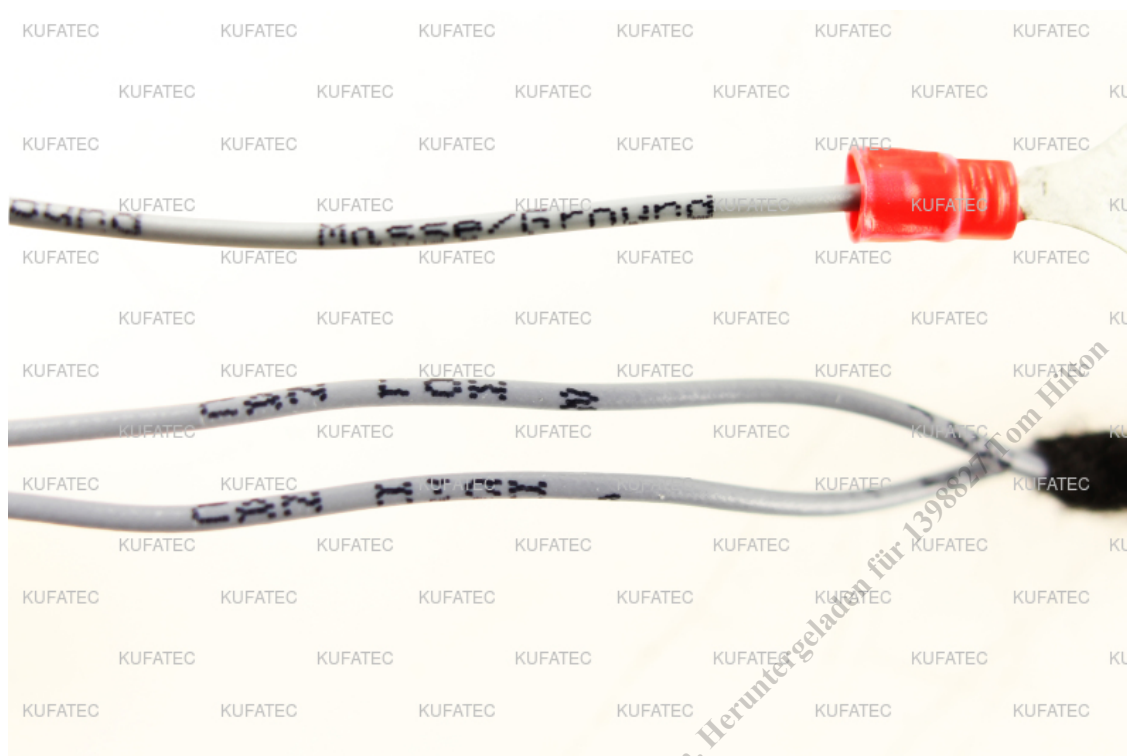


Figure 2: Cable Inscription

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.

8 Overview Cable Inscription

Overview Cable Inscriptions

- The cables from our cable set will mostly be inscribed in German. For your understanding, please see the following table.

Inscription	Translation	
Masse	Ground	
Zuendungsplus	Ignition plus	
Dauerplus	Steady plus	
Sicherung	Fuse	
Grau	Grey	
Diagnose	Diagnostics	
Ring"ose	Ring lug	

9 Important note

Assembly note cable set (version: only seat heating)

- Please route the cable set in a suitable and invisible way to the following connections.
- Important note: Keep in mind that the point of assembly and the routing of the cable may vary depending on the vehicles model.

Cable assignment:

Cable	Inscription / Connection	
Plug small 2x (6-pole)	/ Connection driver's seat / passenger's seat	
Plug large 2x (6-pole)	/ Connection button unit seat heating	
Cable (cable lug)	Masse/Ground/ ground pin driver's footwell	
Cable (MPT)	Sicherung/Dauerplus/ fuse box steady plus Kl.30, 15A	
Cable blank (MPT)	Sicherung/Zuendungsplus/ fuse box ignition plus Kl.15, 7.5A	
Cable (JPT)	grau/ light switch Kl.58b Pin 17	
additional cable)	Ring"ose/MPT/ steady plus Kl.30 (if available)	

10 Instructions to connect the cable set (version: only seat heating)

Table 2: Instructions to connect the cable set (version: only seat heating)

No.	Work step	Note
1	Connect both 6-pole plugs to both heating mat connections of both front seats (driver's / passenger's side). The connection with the long cable is done on the passenger's side, the connection with the short cable is done on the driver's side.	
2	Route the cable set from the seats through the center console towards the dashboard. The cables with inscription Masse and Sicherung/Zuendungsplus are routed further to the fuse box as well as to the ground pin in the driver's footwell.	
3	Connect the ground to the ground pin . It should be located at the A-column.	
4	Connect the blank cable ignition plus Kl.15 with an ignition plus Kl.15 carrying cable (fuse box). Finally protect it with a 7.5A fuse.	
	Pin the cable steady plus Kl. 30 into a free steady plus Kl.30 carrying slot (fuse box). Protect it with a 15A fuse.	
!!	Note: If an additional cable (ring lug/MPT contact) is included in the scope of delivery, this can be used to occupy a free/empty slot with steady plus Kl. 30. The steady plus Kl.30 cable from the main cable set can be pinned into this slot.	
5	Route the 7-pole plug to the seat heating button unit.	
6	Route the grey (blank) cable to the light control switch.	
	Connect the grey cable with the manufacturer's side cable in Pin 17 (Kl.58b) .	

11 Important note

Assembly note cable set (version: seat heating, seat regulation, memory seat)

- Please route the cable set in a suitable and invisible way to the following connections.
- Important note: Keep in mind that the point of assembly and the routing of the cable may vary depending on the vehicles model.

Cable assignment:

Cable	Inscription / Connection	
Plug small 2x (6-pole)	/ Connection driver's seat/passenger's seat	
Plug red (6-pole)	/ Connection driver's seat	
Plug beige (10-pole)	/ Connection driver's seat	
Plug large 2x (6-pole)	/ Conneciton button unit seat heating	
Cable (cable lug)	Masse/Ground/ ground pin driver's footwell	
Cable (MPT)	Sicherung/Dauerplus/ fuse box steady plus Kl.30, 15A	
Cable (MPT)	Sicherung/Zuendungsplus/ fuse box ignition plus Kl.15, 7.5A	
Cable (JPT)	grau/ light switch Kl.58b Pin 17	
Cable (blank)	CAN High LOW/ A-column T10 Pin 6 (High), Pin 7 (Low)	
Cable (blank)	Diagnose/ instrument cluster 16-pole Pin 7	
additional cable)	Ring"ose/MPT/ steady plus Kl.30 (if available)	

12 Instructions to connect the cable set (version: seat heating, seat regulation, memory seat)

Table 3: Instructions to connect the cable set (version: seat heating, seat regulation, memory seat)

No.	Work step	Note
1	Connect both 6-pole plugs to both heating mat connections of both front seats (driver's/passenger's side). The connection with the long cable is done on the passenger's side, the connection with the short cable is done on the driver's side.	
	Connect both plugs red (6-pole) and beige (10-pole) underneath the driver's seat.	
2	Route the cable set from the seats through the center console towards the dashboard. The cables with inscription Masse and Sicherung/Zuendungsplus are routed further to the fuse box as well as to the ground pin in the driver's footwell.	
3	Connect the ground to the ground pin . It should be located at the A-column on the driver's side.	
4	Connect the blank cable ignition plus Kl.15 to an ignition plus Kl.15 carrying cable (fuse box). Protect it with a 7.5A fuse.	
	Pin the cable steady plus Kl.30 into a free steady plus Kl.30 carrying slot (fuse box). Protect it with a 15A fuse.	
!!	Note: If an additional cable (ring lug/MPT contact) is included in the scope of delivery, this can be used to occupy a free/empty slot with steady plus Kl.30. The steady plus Kl.30 cable from the main cable set can be pinned into this slot.	
5	Route the 6-pole plug to the seat heating button unit.	
6	Route the grey (blank) cable to the light control switch. Loosen the plug of the light control switch.	
	Connect the grey cable to the manufacturer's side cable in Pin 17 (Kl.58b)	
7	Route the CAN High Low cable to the A-column. At the A-column, there are several isolating plugs. Loosen the black 10-pole plug (T10).	
	Connect the two CAN cables as follows:	
	CAN High is connected to the cable orange/green in Pin 6 (10-pole plug, black) .	
	CAN Low is connected to the cable orange/brown in Pin 7 (10-pole plug, black) .	
8	Route the Diagnose cable to the speedo/instrument cluster . Loosen the 16-pole plug (T16) .	
	Connect the cable to the diagnostics cable grey/white in Pin 7 .	

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