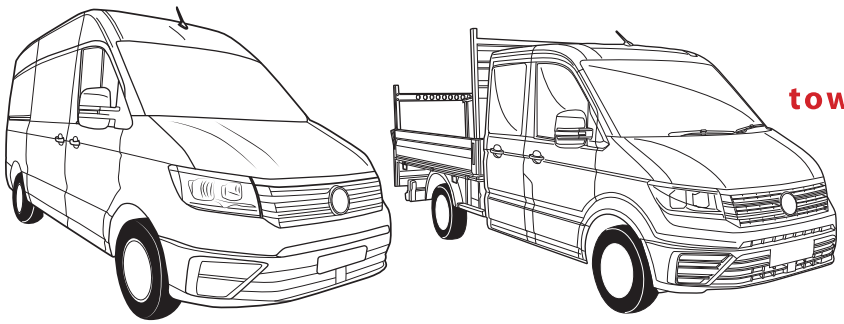
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towbar wiring kits for the uk

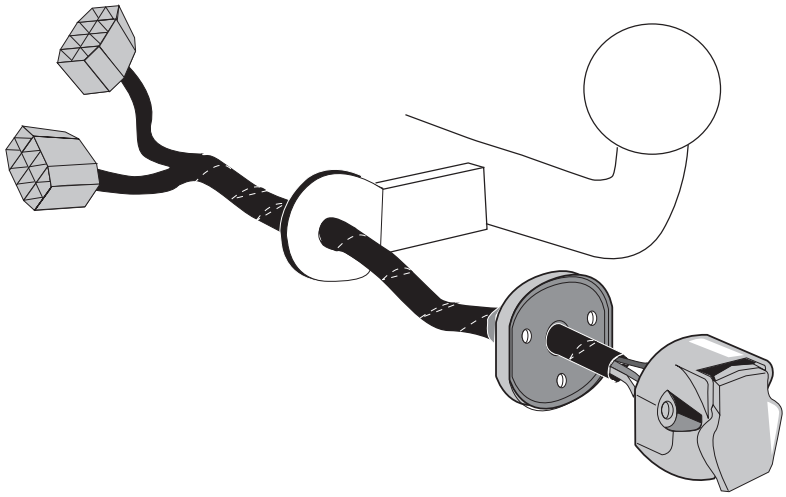


**Volkswagen Crafter** 03/2017 >> 06/2024
Without trailer preparation
**M.A.N TGE Van** 06/2017 >> 06/2024
Without trailer preparation

**Part No: VW-200-07M**

## Electric wiring kit for towbars / 7-pin / 12N / 12 Volt / ISO 1724

# Fitting instructions



## IMPORTANT!

This electric kit has to be installed by a professional workshop or a suitable qualified person.
The installation instructions must have been read and fully understood before the start of any installation. Please contact your wiring kit provider or the hotline shown in the footer should you need assistance!
Make sure the vehicle is approved/homologated by the manufacturer to tow a trailer!
Also please check that there is a definite compatibility between this vehicle and the electric kit!
Following the installation of the electric kit, the fitting instructions should be kept together with the vehicle service document and vehicle handbook. The fitting instructions contain important information relating to the use and function of the towing kit as well as for any diagnostic or activation process, that might have to be repeated in the future (e.g. after the performance of a vehicle software update).
All warranty claims will be forfeited if the electric kit or components contained therein are used incorrectly or modified. If a towing socket adaptor has been used to connect to the trailer or bike rack, this must be removed from the trailer socket once the trailer or bike rack has been disconnected.
If the trailer or bike rack is not equipped with a rear fog lamp, depending on the towing vehicle type, the correct function of the towing kit cannot be guaranteed. In such cases, a rear fog lamp should be retro fitted.
This towing electric kit will not be covered under warranty if any technical or electrical modifications or software updates have been performed by the vehicle manufacturer after the initial commissioning of the kit. That applies especially to modifications or updates which may cause malfunctions in the trailer socket or any other part of the trailer electrical equipment!
Depending on the type of trailer module used in this electric kit, diagnostic interrogation with the vehicle's electrical system may be limited or will not function. The error memory inside the trailer module may not be able to be accessed by vehicle manufacturers diagnostic system.
Error logs relating to the trailer electrical equipment, that may be generated in the vehicle manufacturers diagnostic system as a result of a test procedure, may be due to the incorrect installation of the towing electric kit or the false activation of the trailer module.
**We always recommend whenever possible, the following troubleshooting process:**
- **An analysis of the vehicle's error memory and possibly clearing of all faults before the start of the installation!**
- **Try disconnecting the trailer module from the towing harness and re-start the fault clearing process!**
- **If in doubt, limit the time for troubleshooting to a max of 0,5 hours and call our Technical Support Team!**

Please follow our instructions carefully and always test the towing electrics using a true lighting board or a specifically designed bulb tester. If an LED tester is used, ensure it is equipped with correct load resistors or malfunctions will occur!
This instruction is subject to changes and we reserve the right to make changes to design, colour etc.
All of the data and illustrations may not be an exact representation but the text contained in this instruction must be observed!

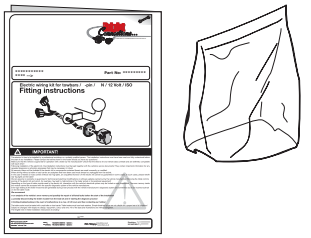


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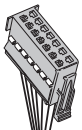
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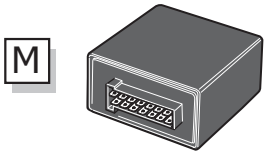


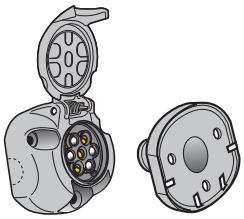



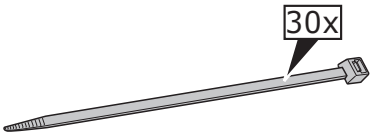






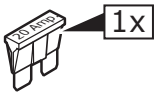


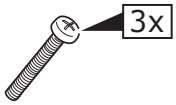


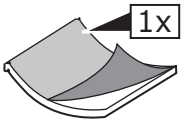


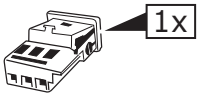


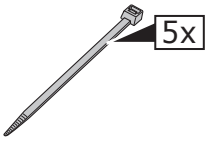


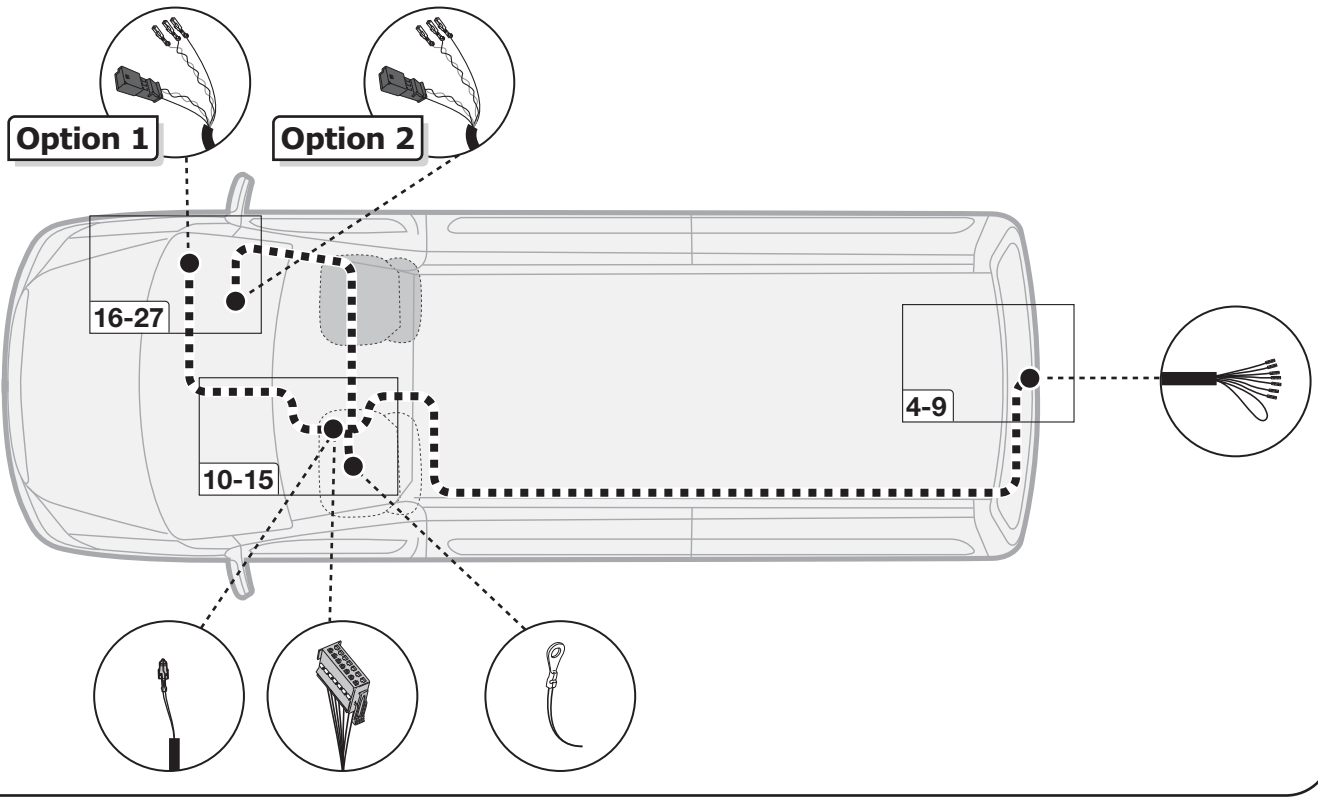






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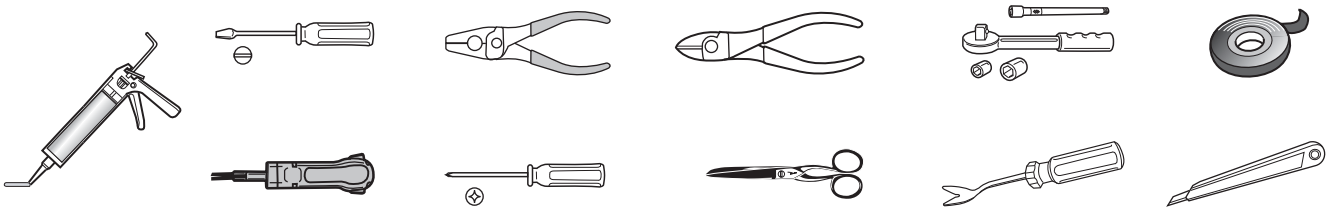
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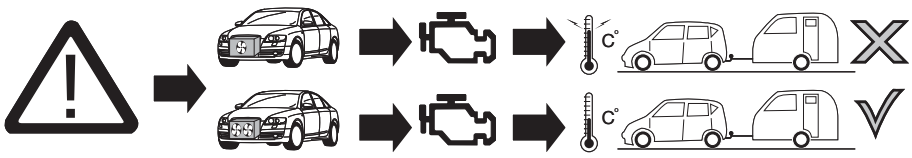
## SYMBOL EXPLANATION

| | |
|---|---|
| | Left (58-L) respectively Right (58-R) tail light |
| 54 STOP | Stop light (54) / high mounted, third stop light (54) |
| L | Turn signal indicator left |
| R | Turn signal indicator right |
| | Rear fog light(s) |
| Reverse | Reversing light(s) |
| 30+ | Permanent power supply / 13pin socket, chamber 9 |
| 15+ | Charging wire for trailer battery / 13pin socket, chamber 10 |
| | Trailer / trailer recognition |
| B+/30 | Permanent current power supply |
| | Ground or Earth (31) |
| | Ground connection battery terminal lug |
| | Positive connection battery terminal lug |

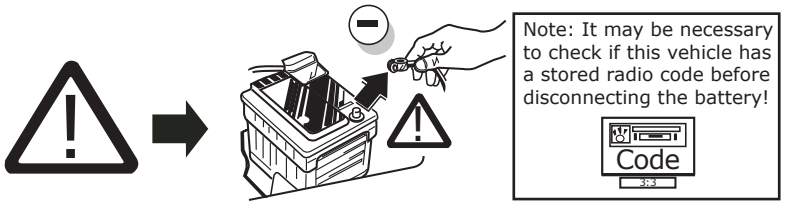
| | |
|---|---|
| 12V | Cigarette lighter / accessory socket |
| | Loudspeaker / buzzer |
| | Park Distance Control |
| | Switch / source of function |
| | Connect together |
| | Disconnect |
| | Look at / See further information |
| | Look carefully at selected area |
| | Present / Occupied / OK |
| | Not present / Not occupied / Not OK |
| | Acoustic indication |
| | Attention / important advice |
| 20 Amp. | Fuse / fuse capacity 20 Ampère |

## TOOLS






**ATTENTION!** The vehicle's cooling capacity may have to be increased when retrofitting a trailer coupling! You must observe the manufacturer's instructions!!




**ATTENTION!**

In order to avoid mal-functions and damage to the vehicle's electrical system the earth terminal **must be disconnected** from the vehicle's battery **before starting work!**

Both the trailer module and the vehicle's control unit for the electrical system can be damaged during work on the data bus connections if the battery is not disconnected!

Please pay attention to the manufacturer's instructions when disconnecting and reconnecting the vehicle's battery!

**1**

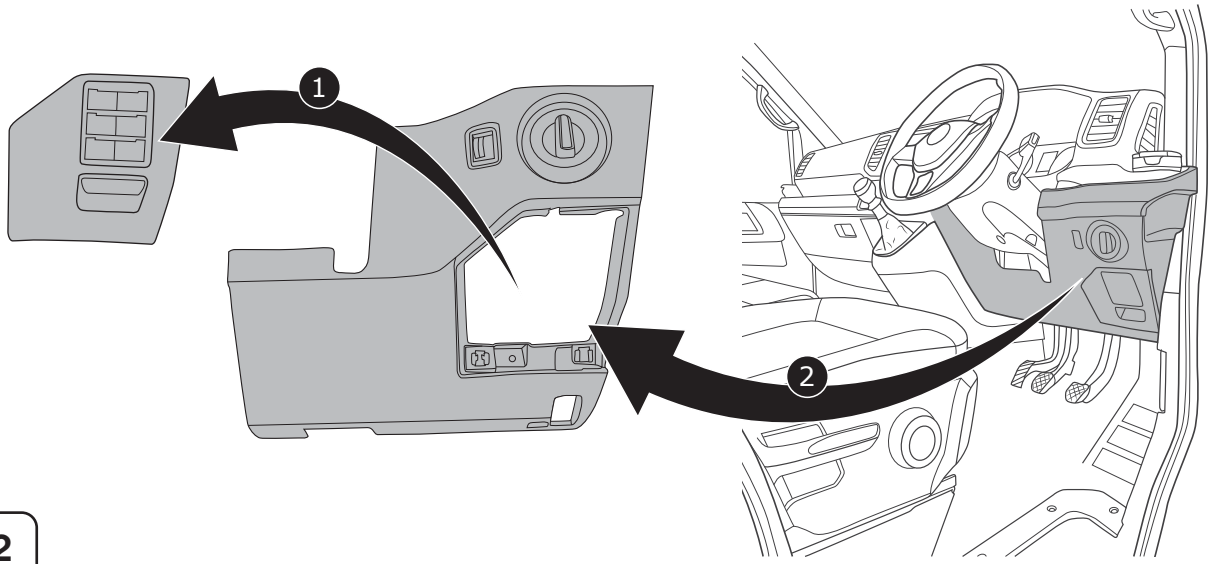


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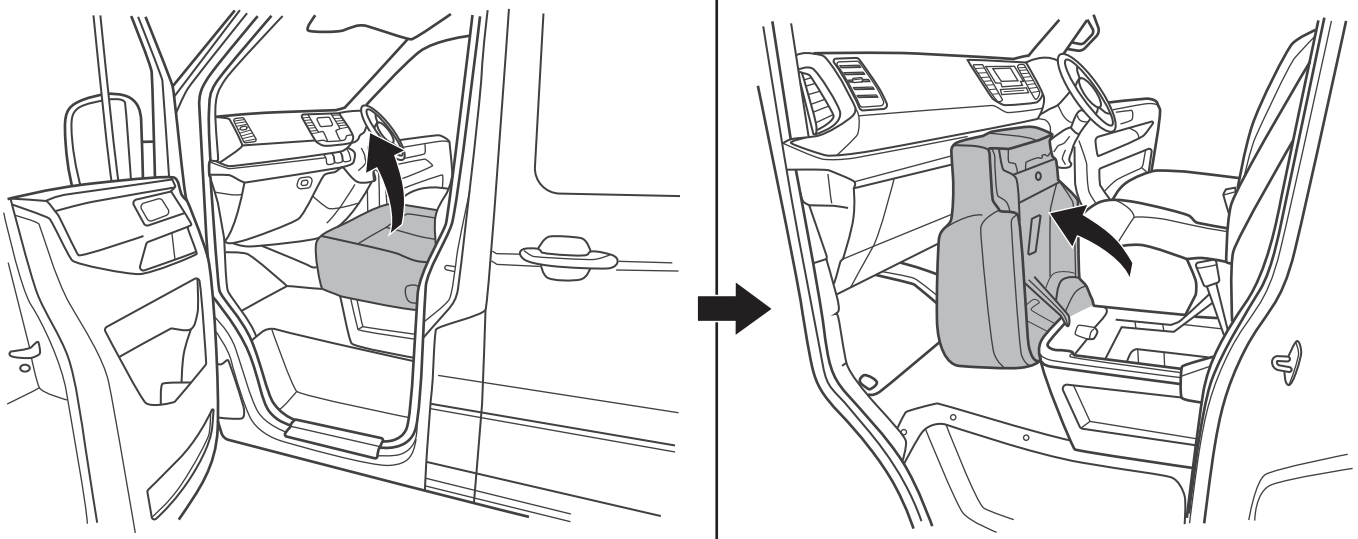
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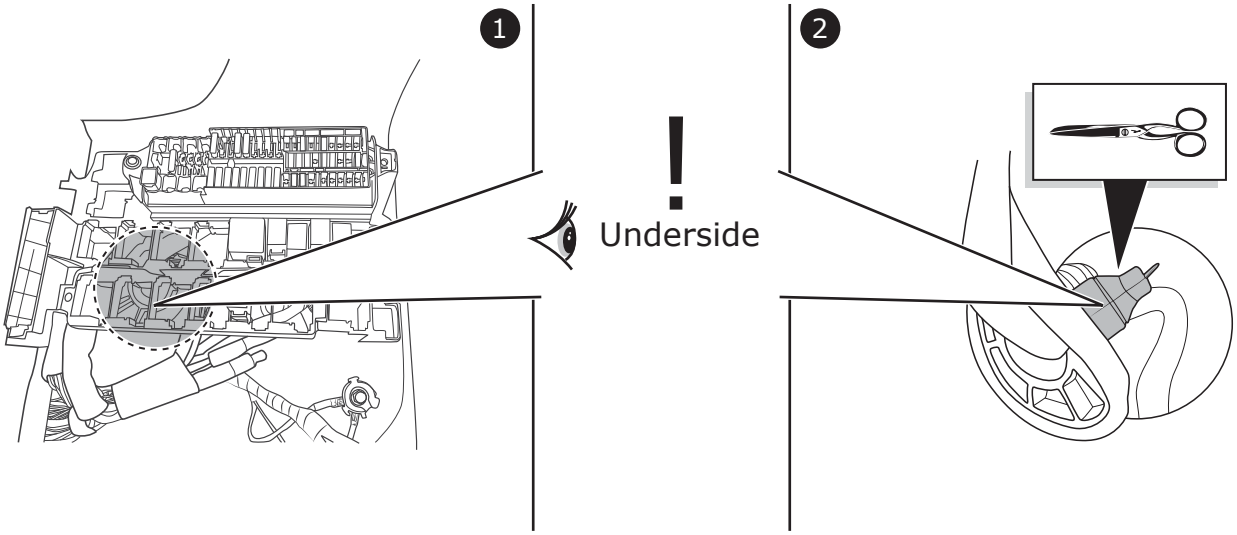
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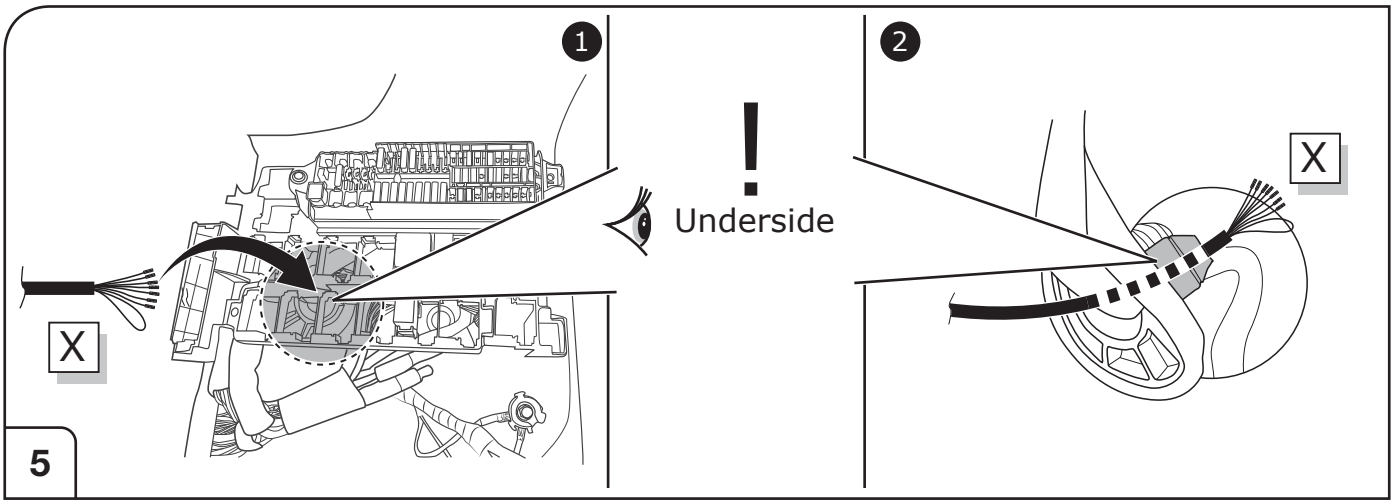


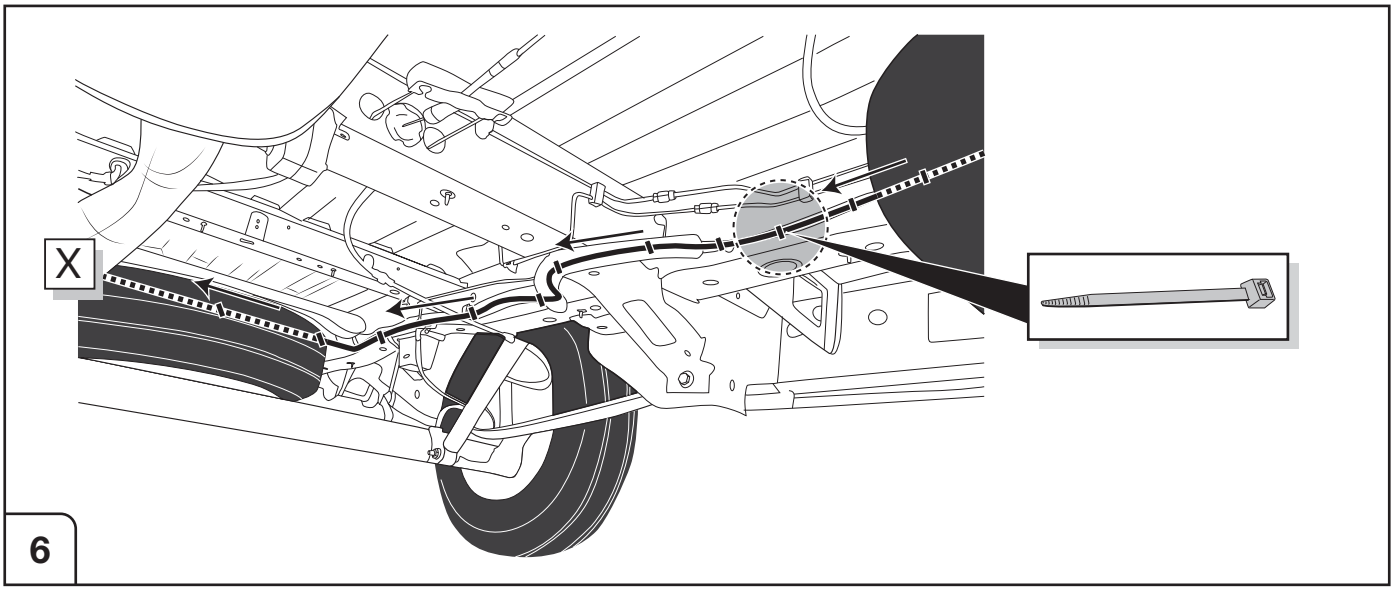
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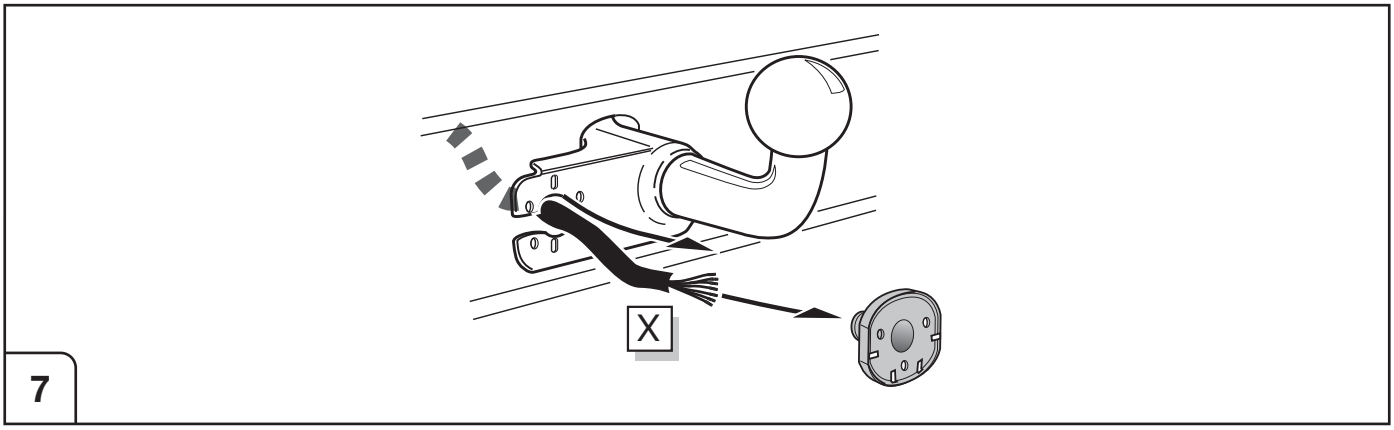
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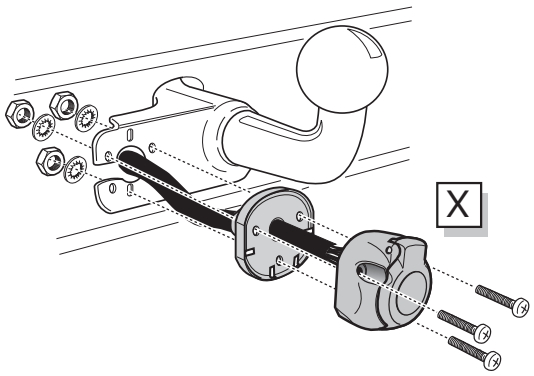


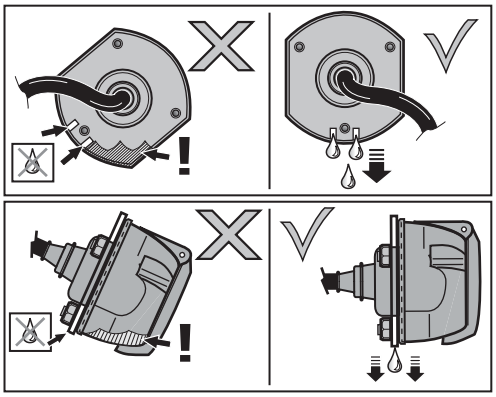
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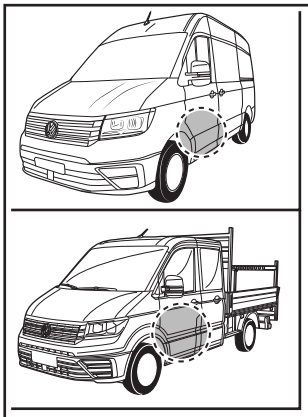
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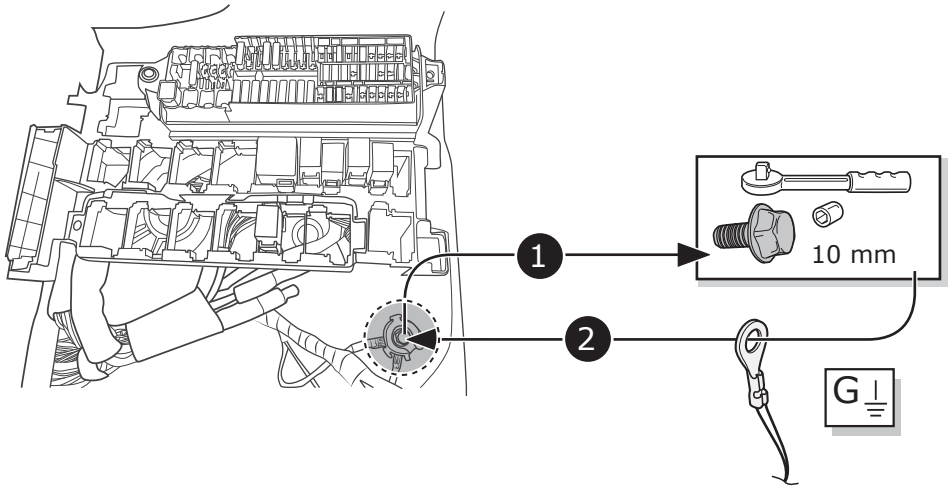
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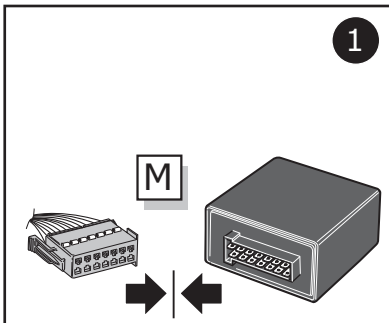



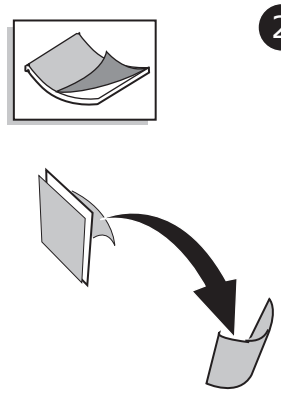

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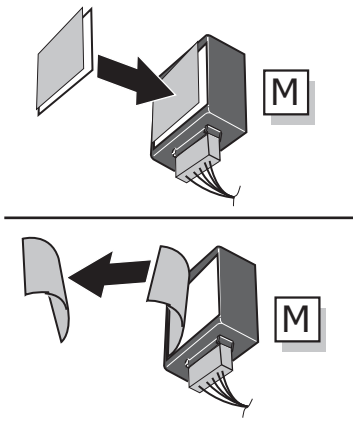


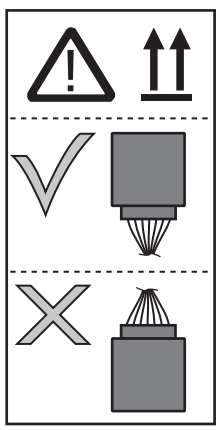



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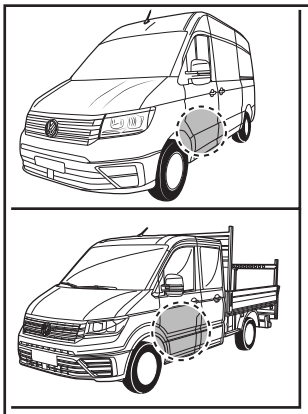


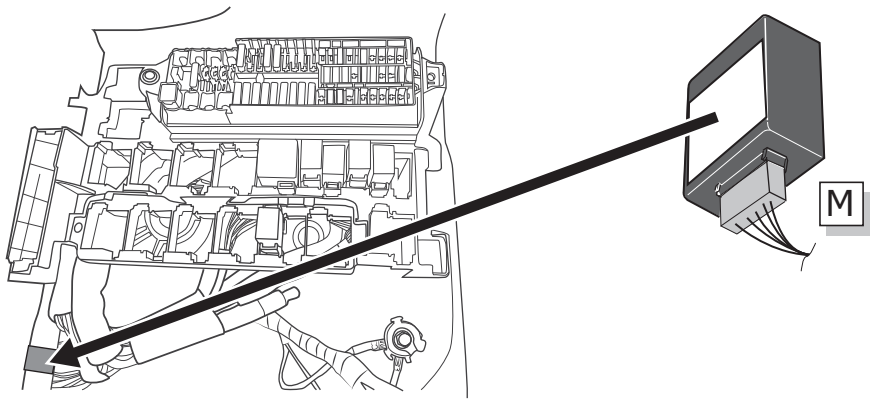




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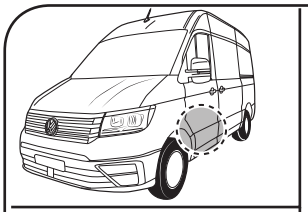


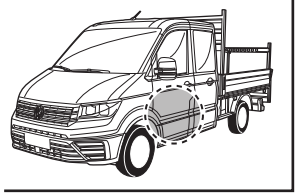
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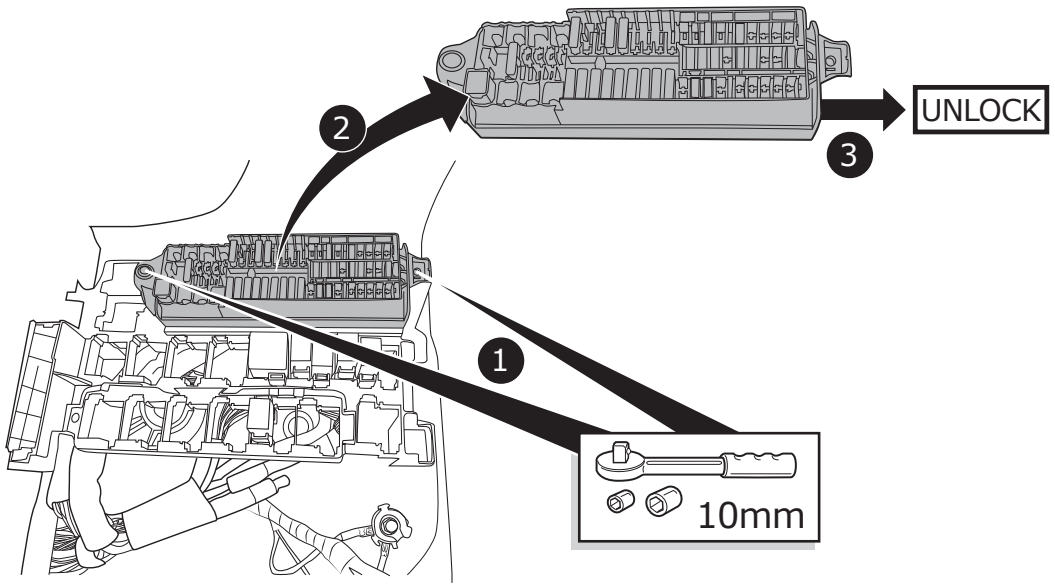
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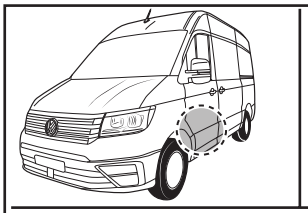
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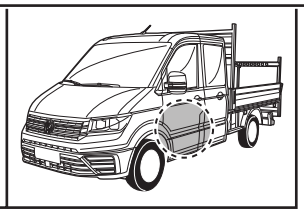


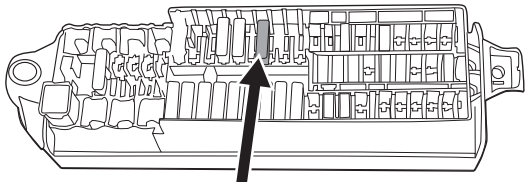




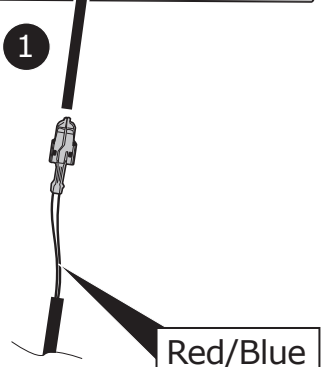

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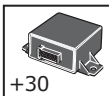



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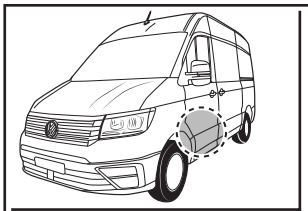

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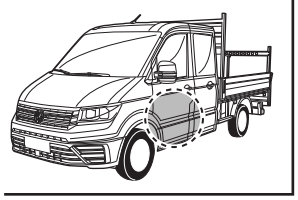
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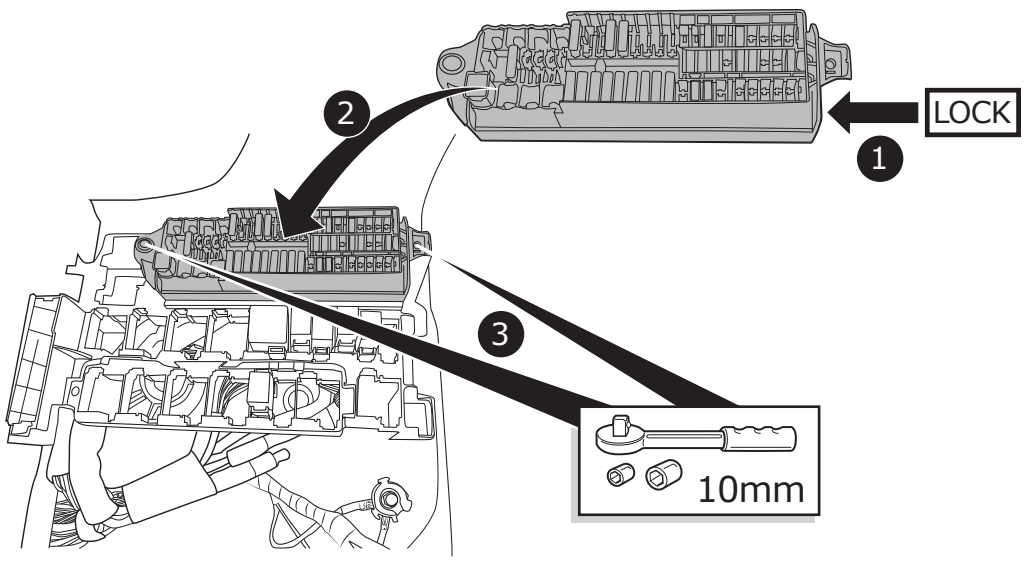


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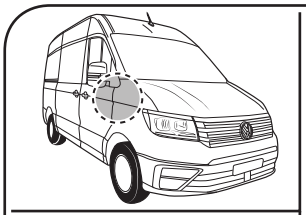


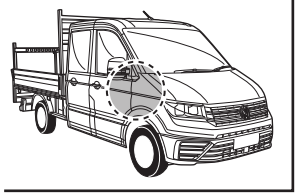
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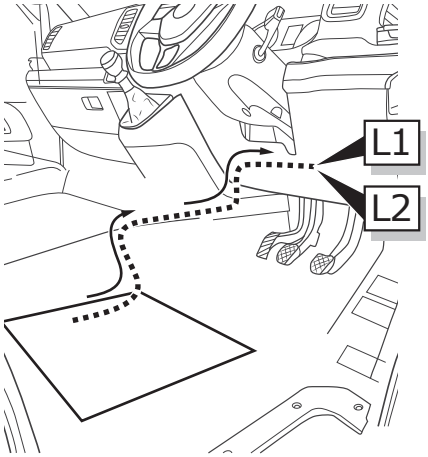
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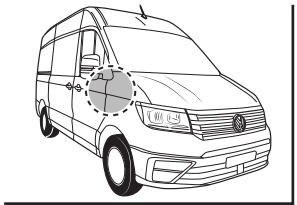


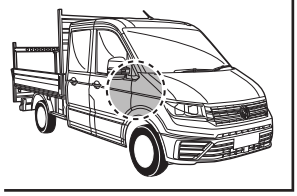


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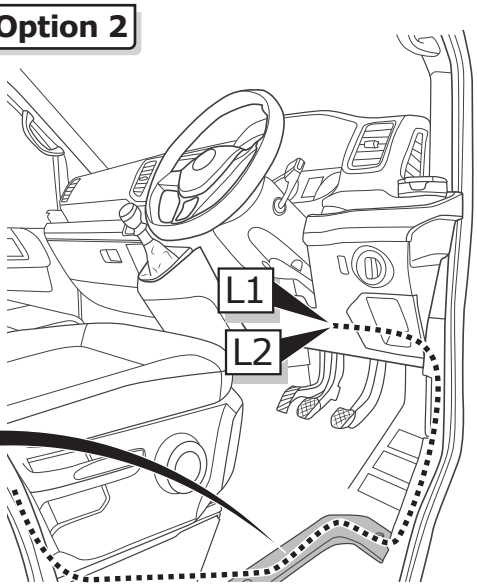


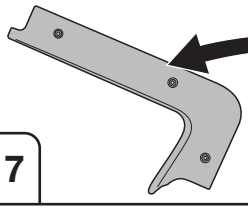

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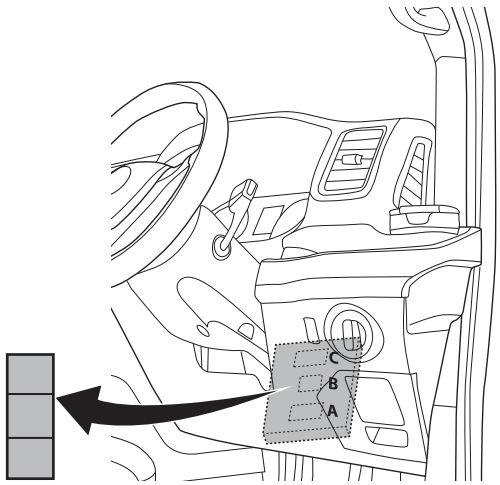




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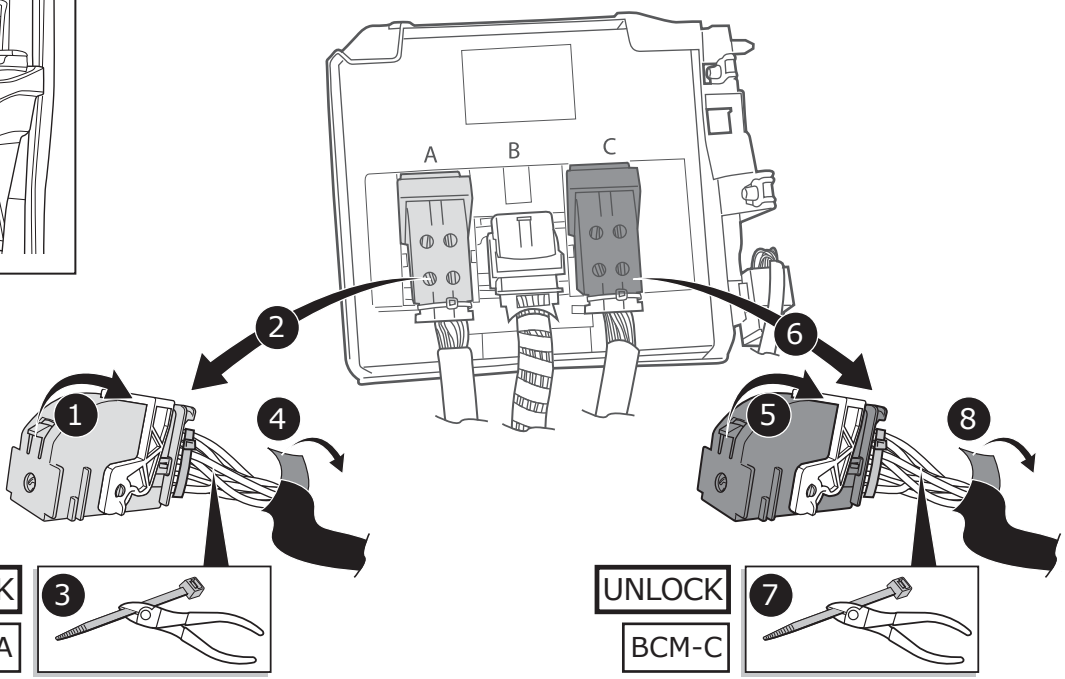





17






18



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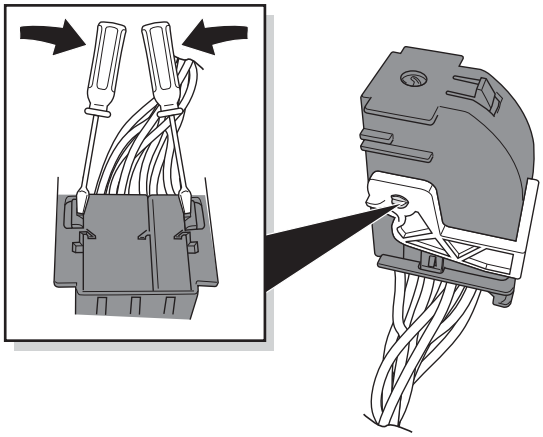
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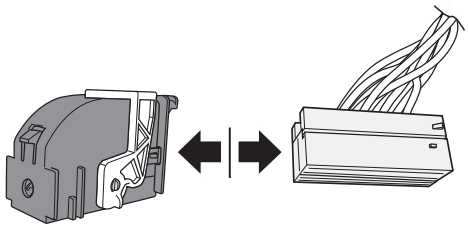
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BCM-C



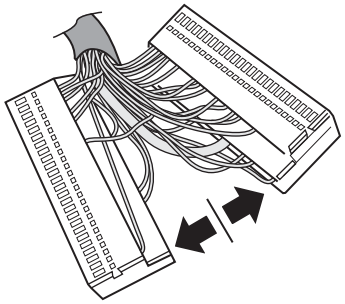
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BCM-C



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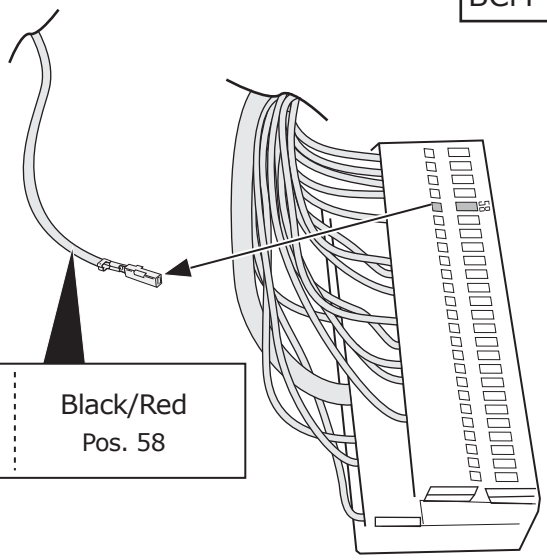
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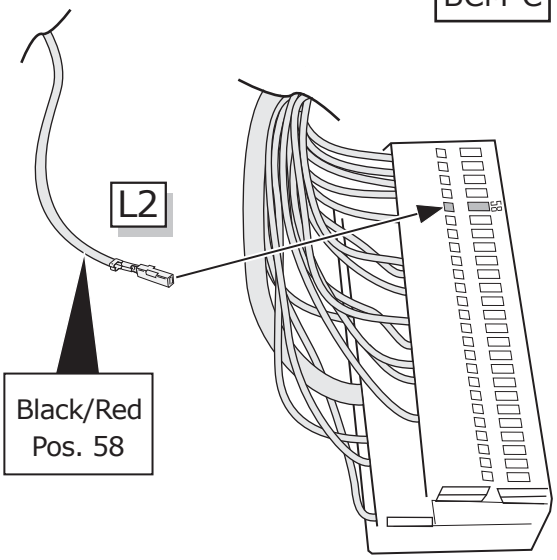
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BCM-C




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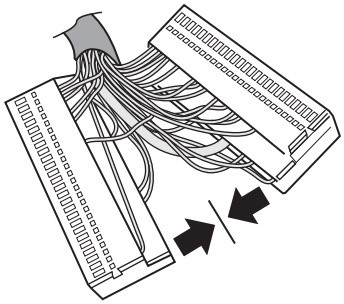
BCM-C




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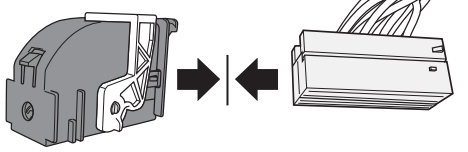
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BCM-C



2

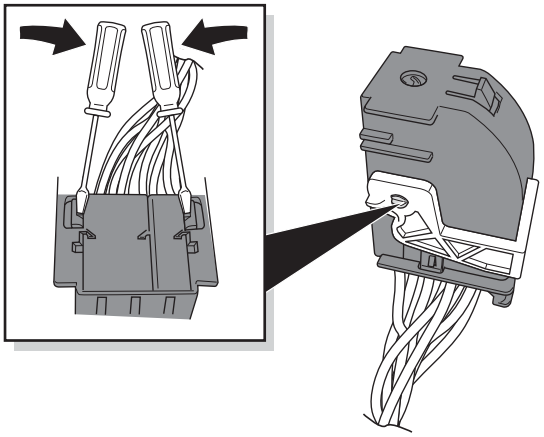
BCM-C



21

3

BCM-C





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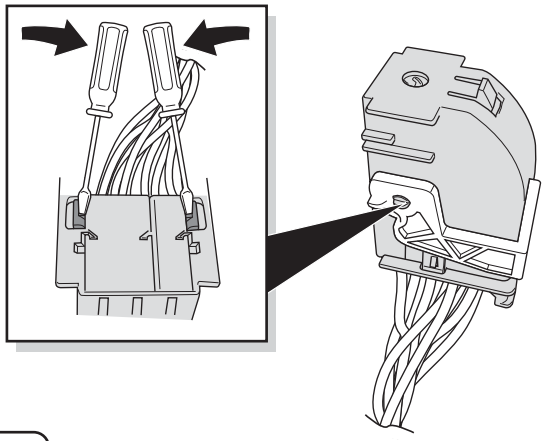
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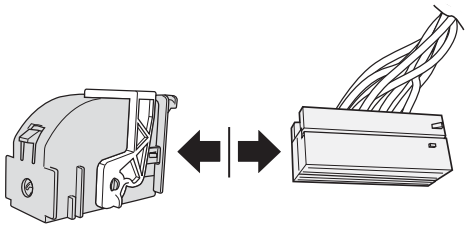
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BCM-A



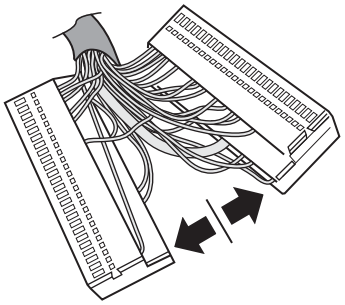
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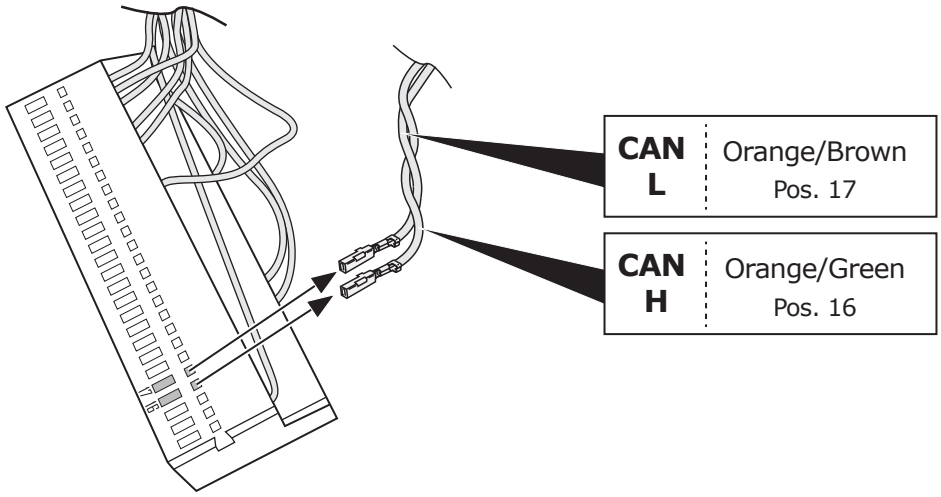
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BCM-A



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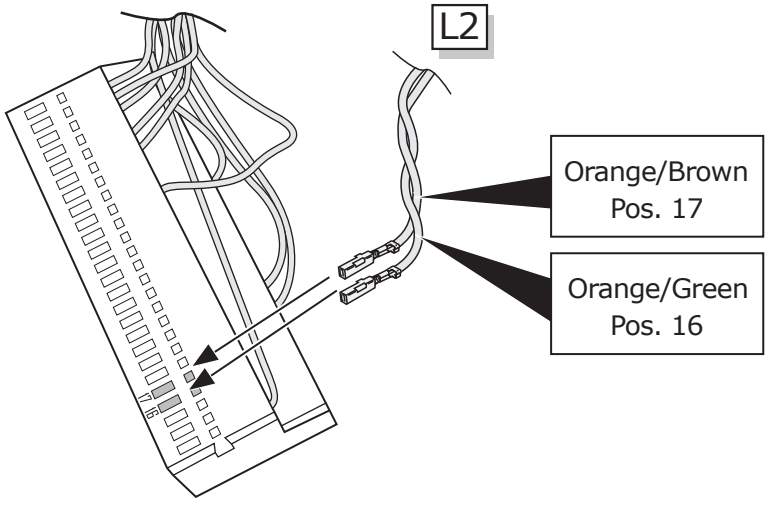
BCM-A




23

BCM-A

L2




24

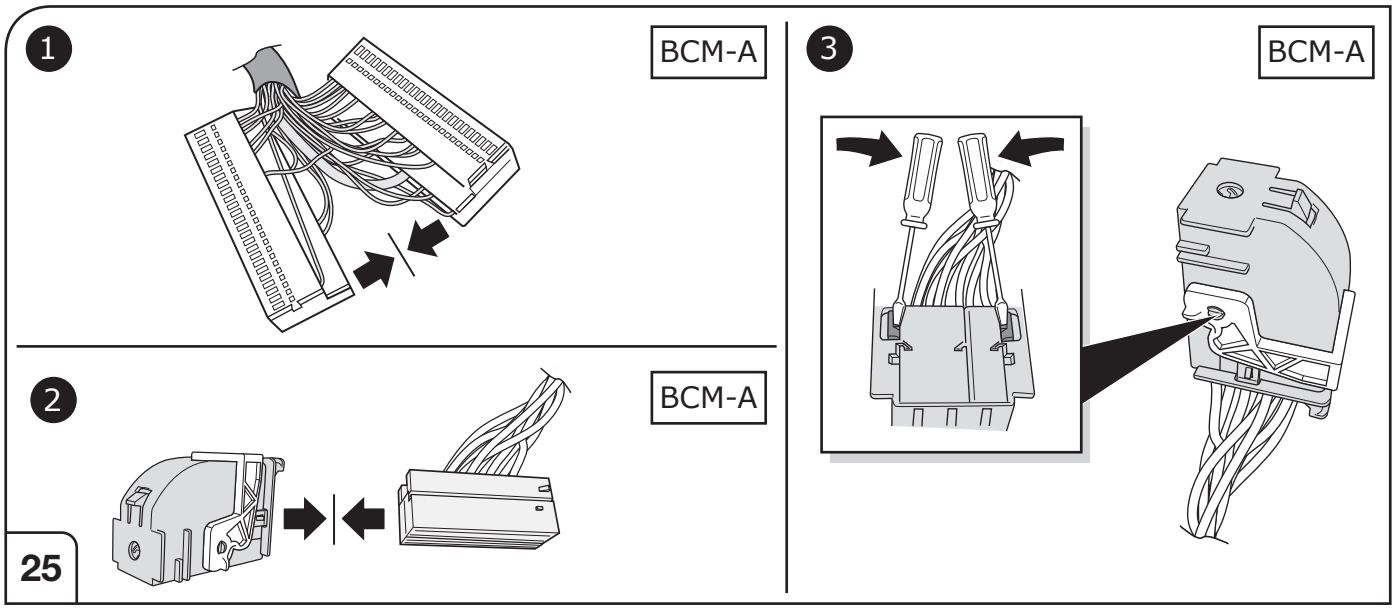


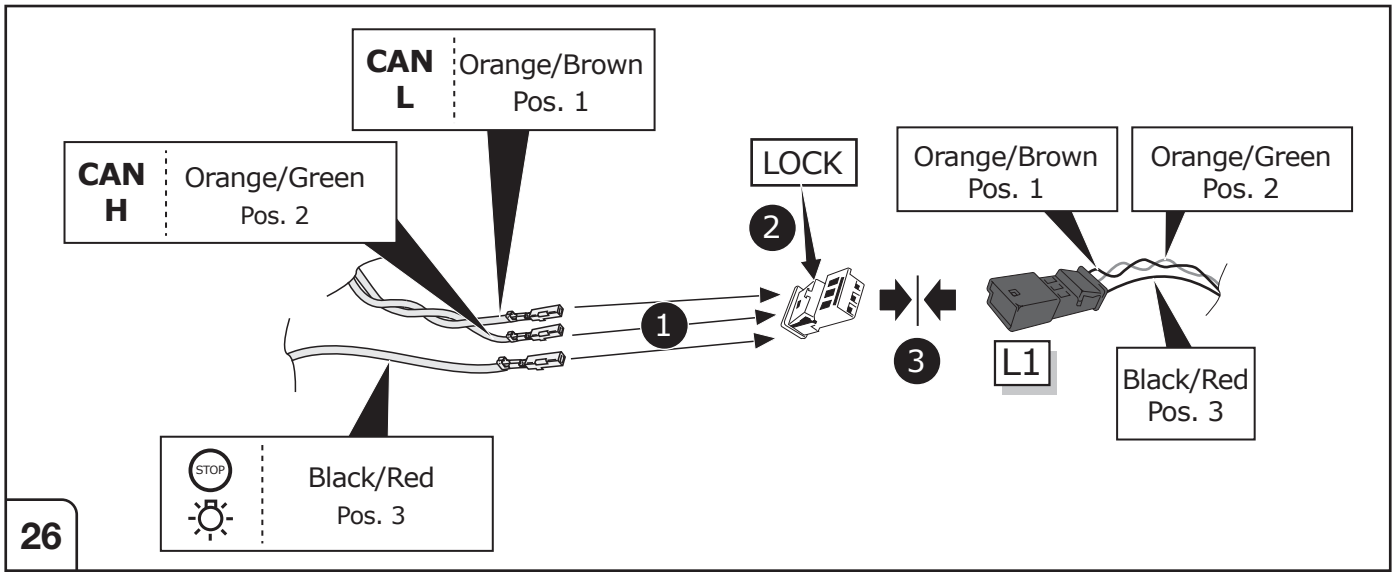
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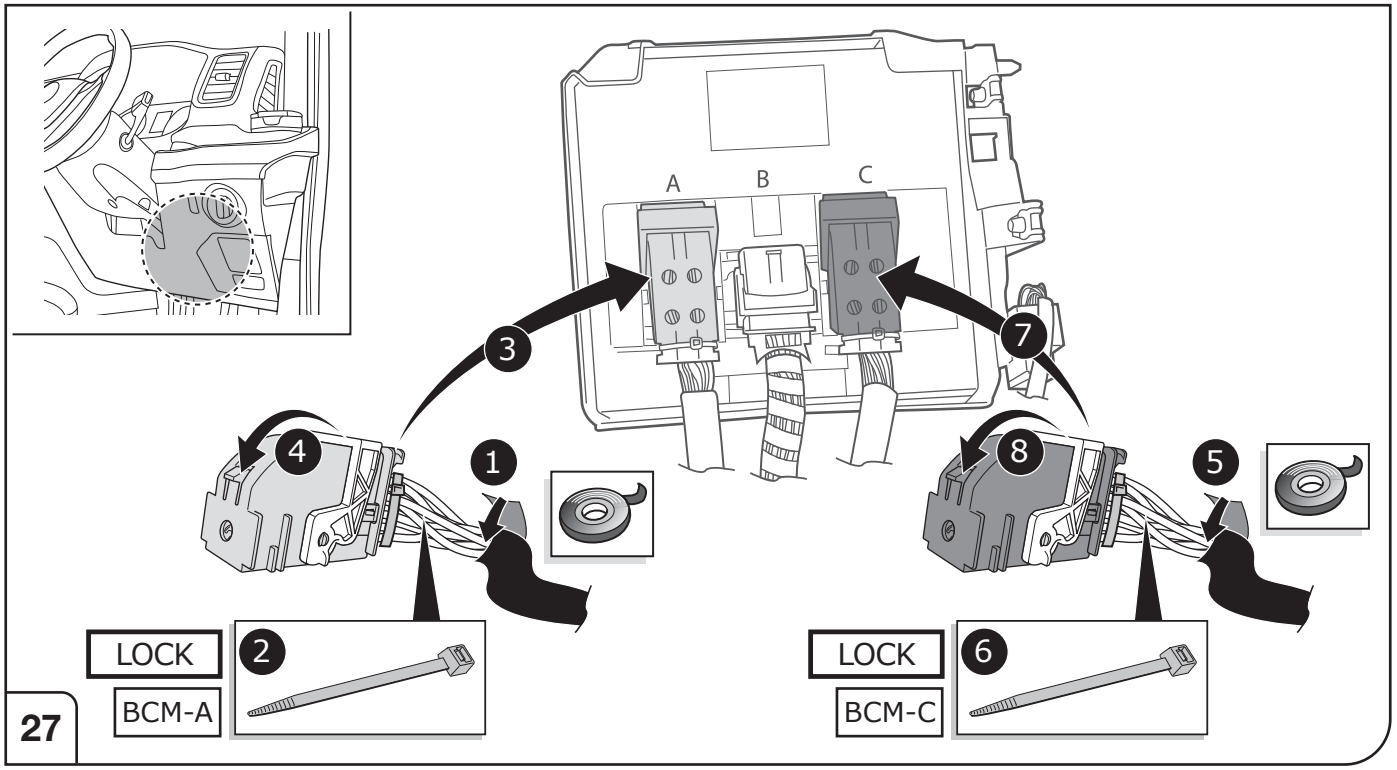
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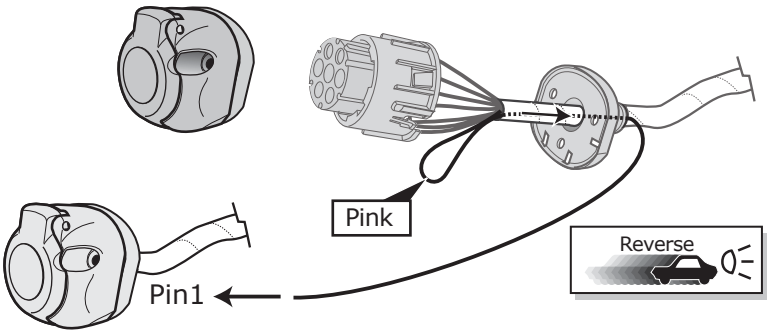
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**Optional**

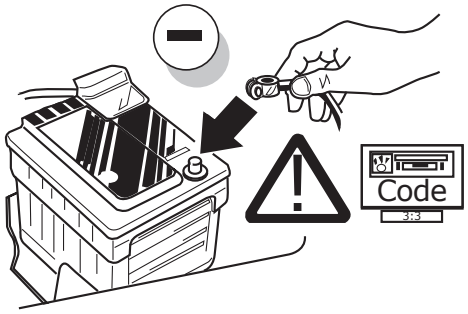
Reverse

MAX = 21W




**12S socket**

28




29

**Optional**

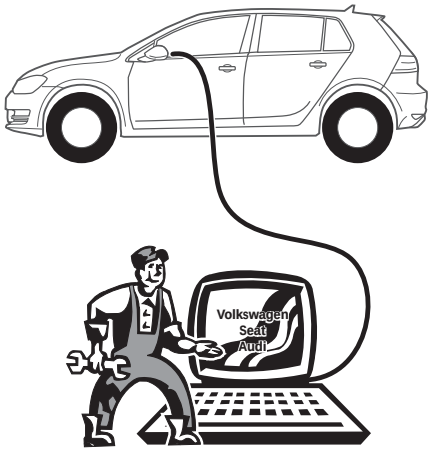
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Trailer Simulator for 7- and 13-pin Sockets

30

## Set up trailer operation




**Perform <u>Offline</u> config as follows:**

➔Possible alternative Diagnosis Services or diagnostic methods (local/ offline)

- **ODIS (➔page 15)**
- Hella Gutmann
- VCDS
- Autologic
- Bosch / KTS
- SP Diagnostic
- SUN
- etc. pp.

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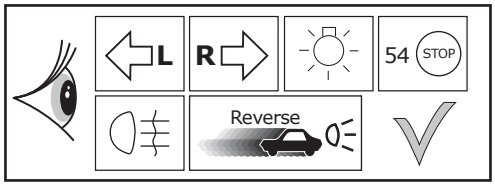
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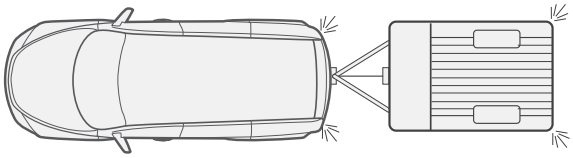
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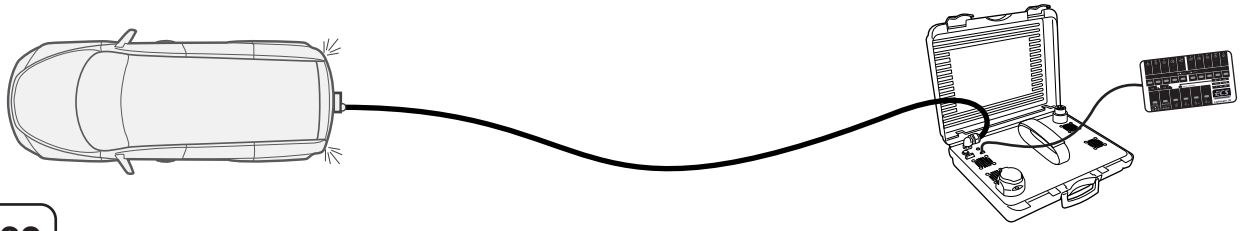
## Functional test





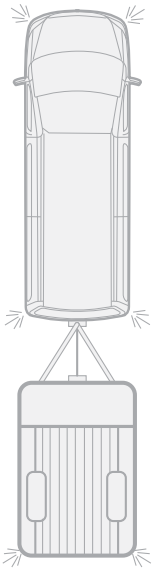


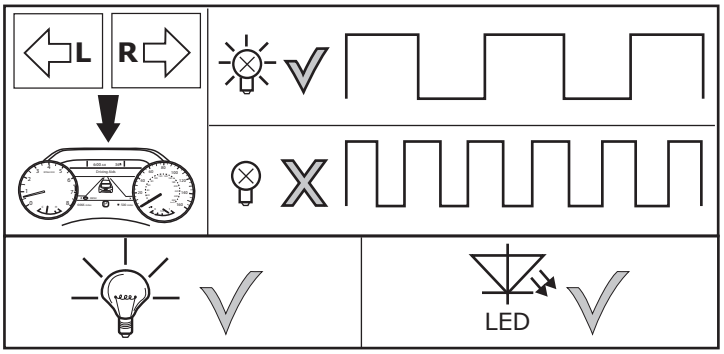




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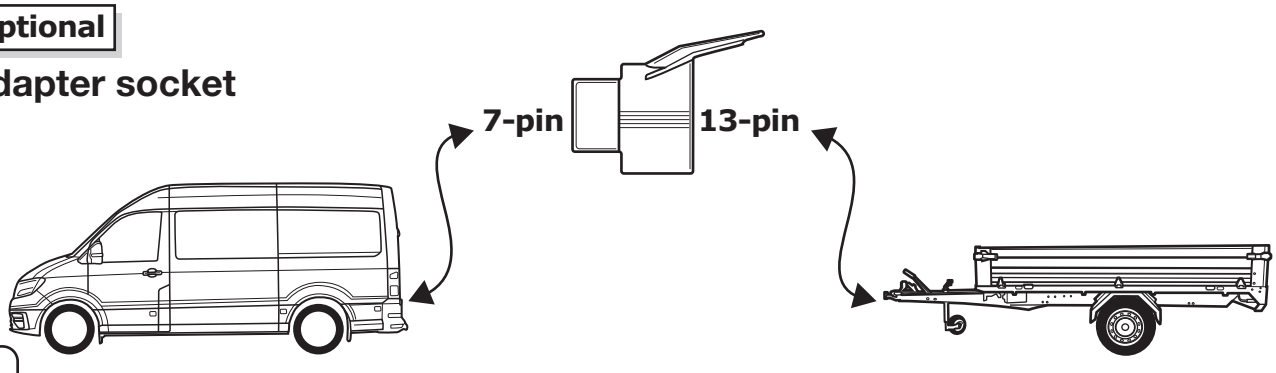



33

## Optional

### Adapter socket




34

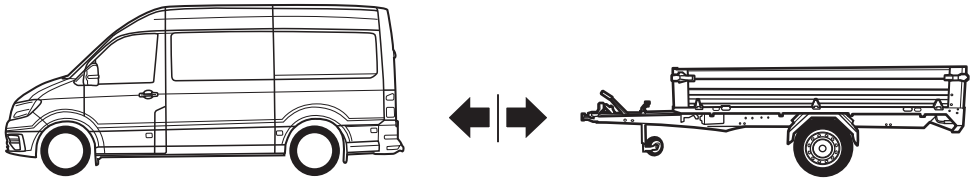


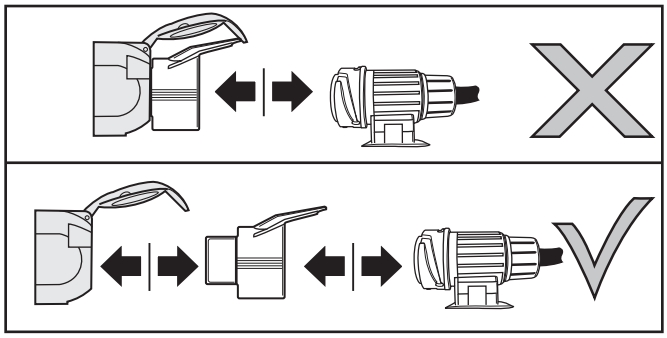
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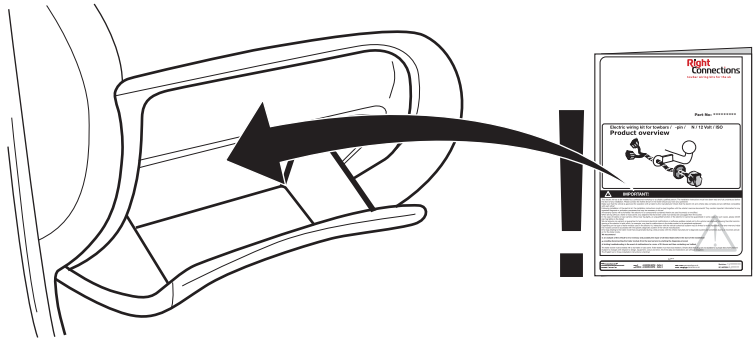
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## Recommended Diagnostic-Service:

Complete Diagnostics

remote diagnostic & coding solutions

**Call Hotline +44 (0)1952 608 750 - Option 4**

## CODING WITH ODIS

**Please note:**

The procedure described below for encoding and enabling the trailer mode only serves for a general orientation and can vary greatly depending on the model (motorisation / equipment). If necessary less or further control units will have to be adapted.

**After connecting to ODIS, the "69 trailer function" controller has to be set to encoded in the target installation list.**

The following may be necessary in the further course of work:

***EZE_09*** **(electronic central electric controller):**
Diagnosis
(possible login code: 31347)
Networking plan
Controller self-diagnosis
Encode
Trailer connection device ›installed
or: hitch_ecu ›installed

**Alternative encoding EZE_09 as follows (MY 2017 >>):**
Self diagnose control unit
Access authorization ›31347
Adjustment
Integration
Trailer control unit > installed

***ZKS_46*** **(Central module convenience system)**
trailer monitoring ›put on active
trailer control unit ›installed

***SWA_3C*** **(Lane Change Assist)**
ECU for draw bar ›with ECU for draw bar

***SW2_CF*** **(Lane Change Assist2)**
ECU for draw bar ›with ECU for draw bar

***SCH_17*** **(Dash panel insert)**
Trailer ›yes

***RFK_6C*** **(reverse camera system)**
equipment_ahk ›installed

***STF_74*** **(chassis control system)**
Trailer ›installed

***EPH_76*** **(PDC controller)**
Trailer ›trailer device can be removed manually

***DIS_13*** (controller distance control
(possible login code: 20103)
Control module for towing sens ›installed

***Alternative encoding DIS_13*** **as follows:**
Self diagnose control unit
Access authorization ›20103
Encoding
Binary encoding
**Byte 3**
Binary ›xxxx**1**xxx
**or** Hex ›+**8**

***03 Brake electronics***
Acces authorisation > 61378
Adjustments
Trailer stability >Active

***FFF_A5*** **(front sensor system controller)**
AAG ›coded

***HDE_6D*** **(boot lid electronics controller)**
Trailer ›installed

***Encoding AST_7E (Driver display unit)***
Encoding
Trailer ➔ on

**Important note on encoding and activating in trailer mode**
The aforementioned settings are carried out in the vehicle's electrical system and saved locally. During general updates for the vehicle software (for example, within the scope of service or repair work), the settings may be overwritten and deleted under certain circumstances. In this case, the trailer mode activation has to be updated again locally after the update. Diagnostic information relating to the trailer mode that may appear during variance comparisons with the data saved in the manufacturer's works, may form the basis of the local activation.



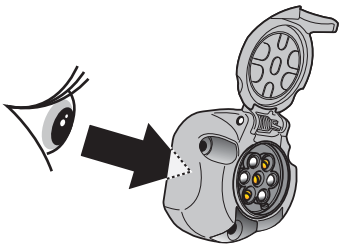
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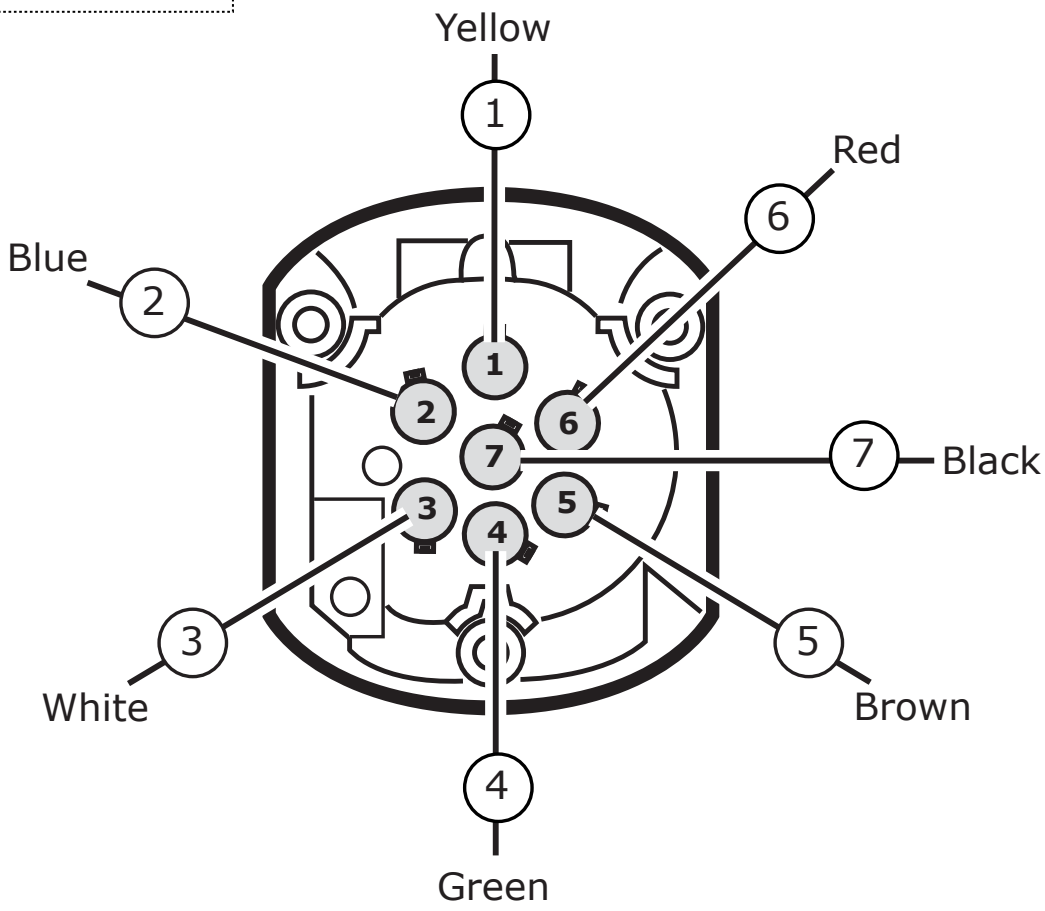
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## SOCKET CONNECTION






## SOCKET CONNECTION

| DIN/ISO 1724 | L | | 1-7 | R | | STOP | |
|---|---|---|---|---|---|---|---|
| | 1/L | 2 | 3/31 | 4/R | 5/58-R | 6/54 | 7/58-L |
| Pmax | 21W | 21W | | 21W | 52W | 3x21W | 52W |
| Colour | Yellow | Blue | White | Green | Brown | Red | Black |



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