

SEAT

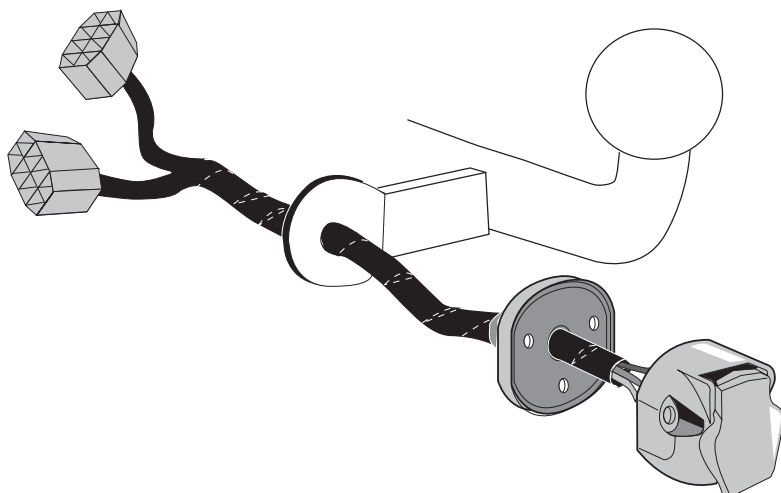
Leon III SC 06/2013 >>
Leon 5-Door 11/2012 >>
Leon e-hybrid 11/2020 >>
Leon III ST 11/2013 >>
Leon ST e -hybrid 11/2020 >>
Leon X-Perience 10/2014 >>
Ateca 06/2016 >>

CUPRA

Cupra Ateca 10/2018 >>
Cupra Born 11/2021 >>
Cupra Formentor 10/2020 >>
Cupra Leon 12/2020 >>
Cupra Leon e -hybrid 12/2020 >>
Cupra Leon ST 12/2020 >>
Cupra Leon ST e -hybrid 12/2020 >>

Part No: VW-190-07MU

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!**

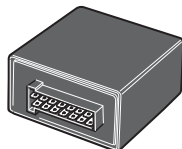
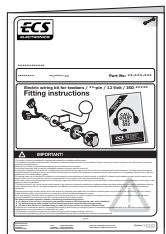
→ **Try disconnecting the trailer module from the towing harness and re-start the fault clearing process!**

→ **If in doubt, limit the time for troubleshooting to a max of 0,5 hours and call our Technical Support Team!**

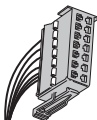
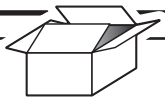
Please follow our instructions carefully and always test the towing electrics using a true lighting board or a specifically designed bulb tester. If an LED tester is used, ensure it is equipped with correct load resistors or malfunctions will occur!

This instruction is subject to changes and we reserve the right to make changes to design, colour etc.

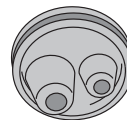
All of the data and illustrations may not be an exact representation but the text contained in this instruction must be observed!



M



M1



T

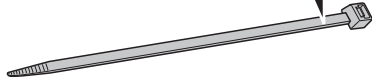


G

C

X

5x



L2

L1

A

L4

B

L3

U



3x



3x



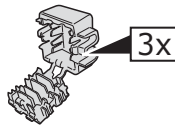
1x



2x



3x



3x



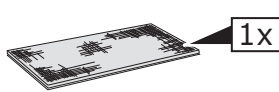
1x
15 Amp.



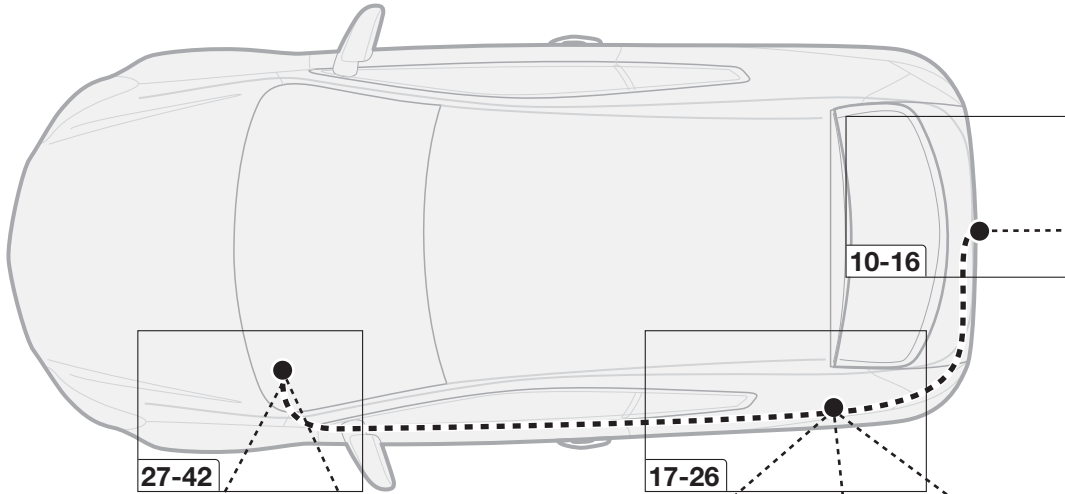
2x
20 Amp.



1x



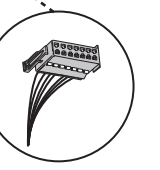
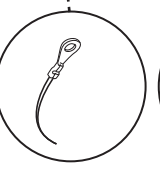
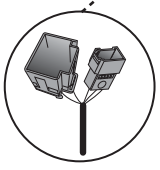
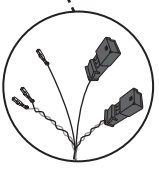
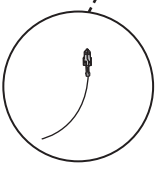
10x















27-42















17-26

10-16

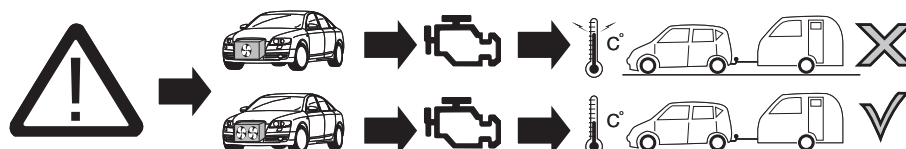
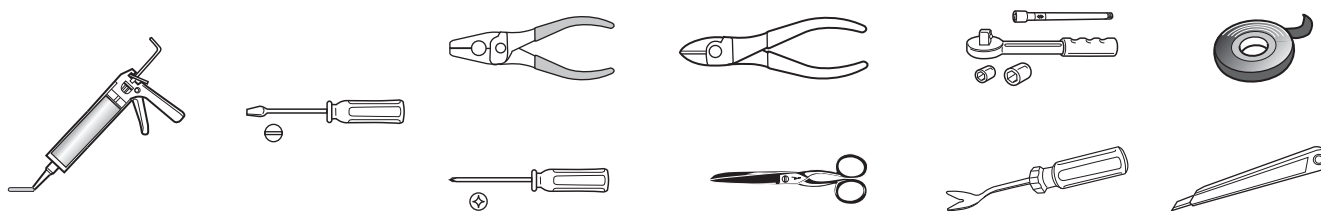


SYMBOL EXPLANATION

	Left (58-L) respectively Right (58-R) tail light
54 	Stop light (54) / high mounted, third stop light (54)
	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

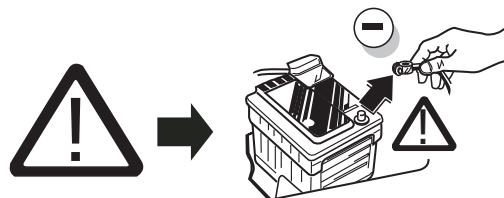
 	Cigarette lighter / accessory socket
	Loudspeaker / buzzer
	Park Distance Control
	Switch / source of function
	Connect together
	Disconnect
	Look at / See further information
	Look carefully at selected area
	Present / Occupied / OK
	Not present / Not occupied / Not OK
	Acoustic indication
	Attention / 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!!



Note: It may be necessary to check if this vehicle has a stored radio code before disconnecting the battery!



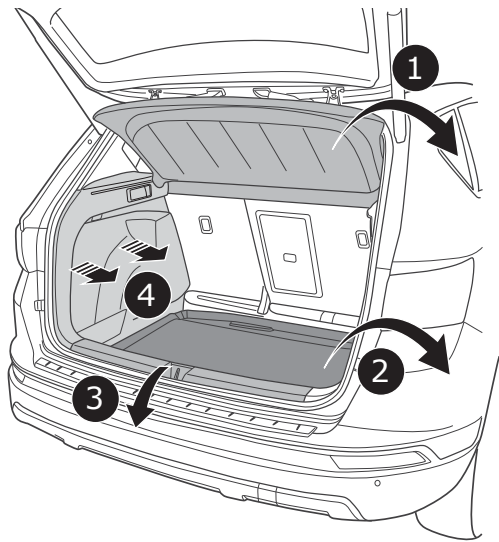
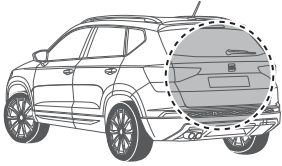
ATTENTION!

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!

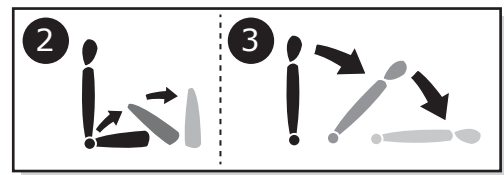
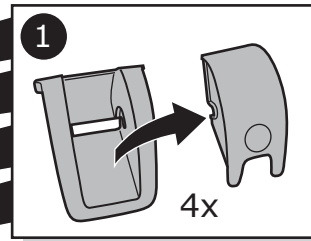
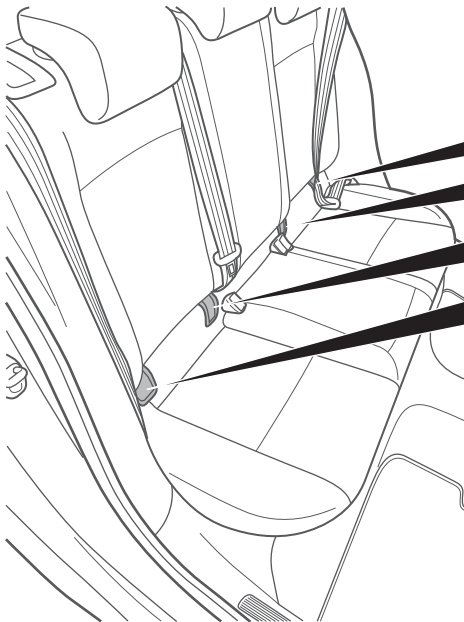
Please pay attention to the manufacturer's instructions when disconnecting and reconnecting the vehicle's battery!

Ateca/ Cupra Ateca



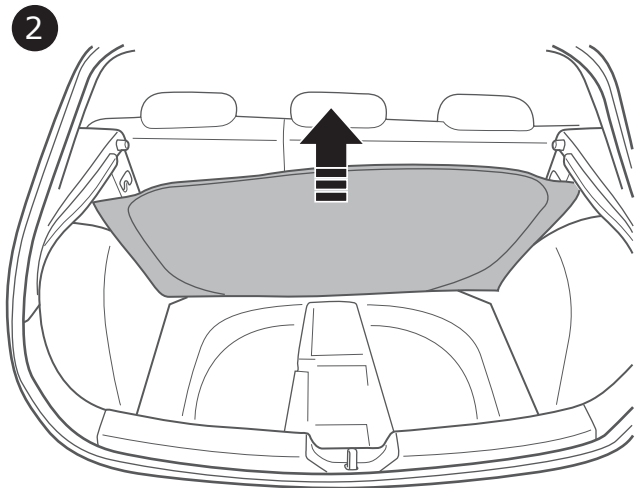
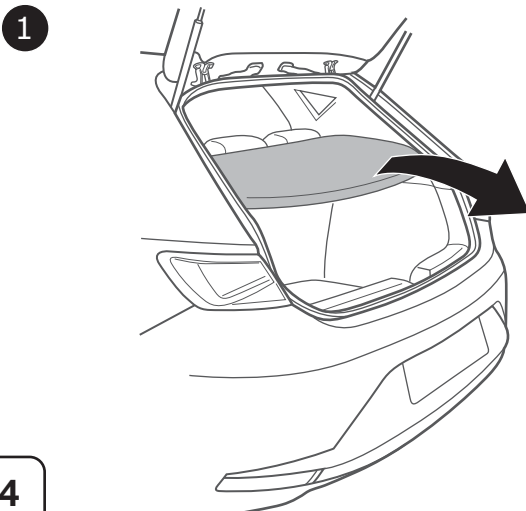
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3-Door/ 5-Door/ ST/ X-Perience/ Ateca/ Cupra Ateca



3

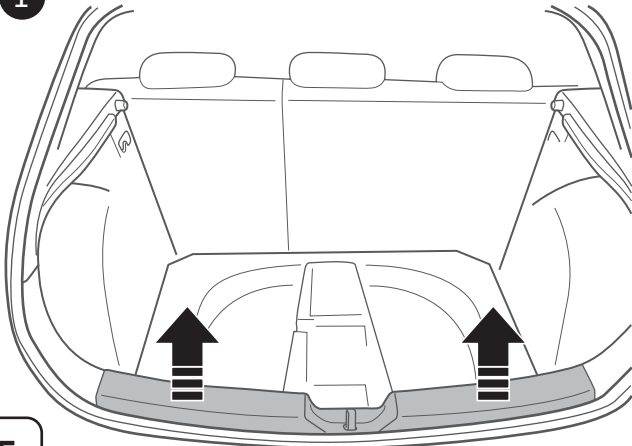
3-Door/ 5-Door/ ST/ X-Perience/ Ateca/ Cupra Ateca



4

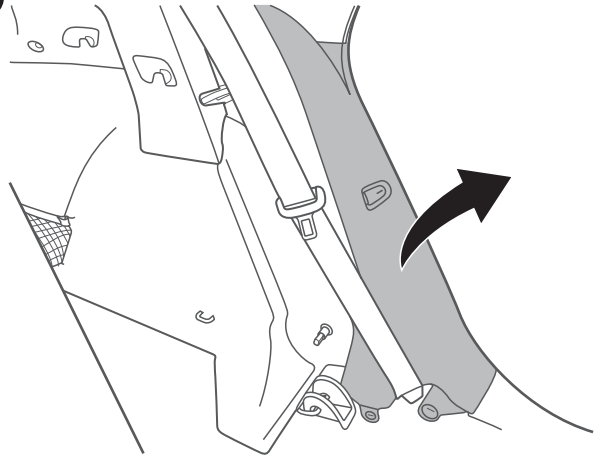
3-Door/ 5-Door/ ST/ X-Perience/ Ateca/ Cupra Ateca

1



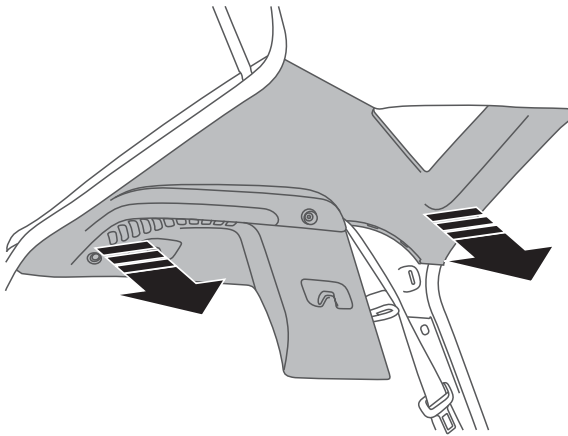
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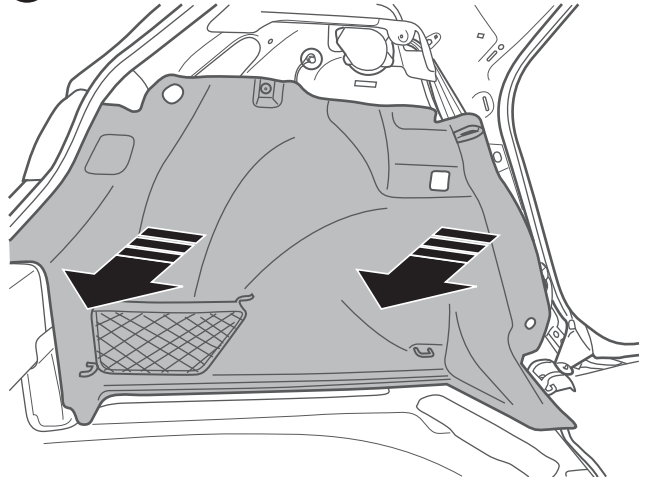
3-Door/ 5-Door

1



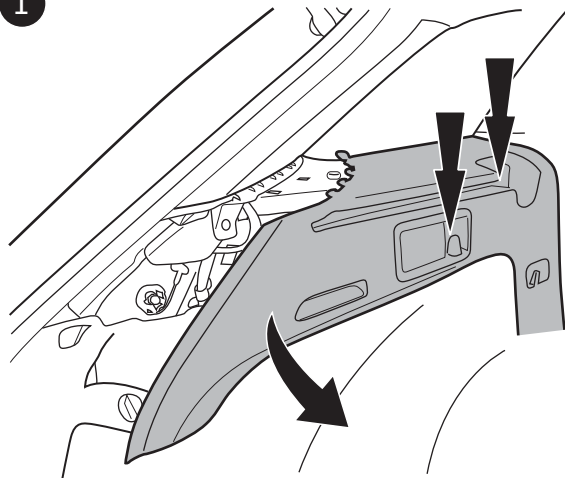
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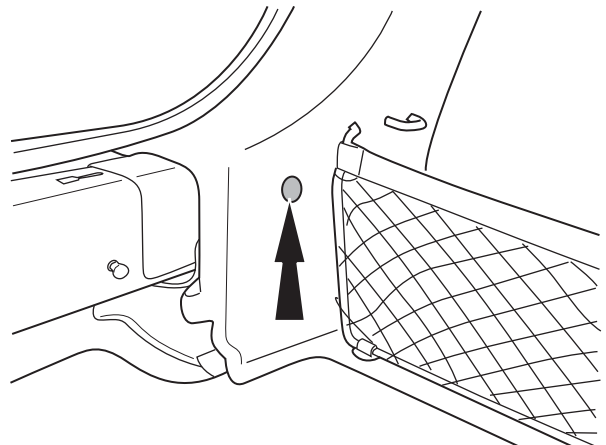
ST/ X-Perience

1



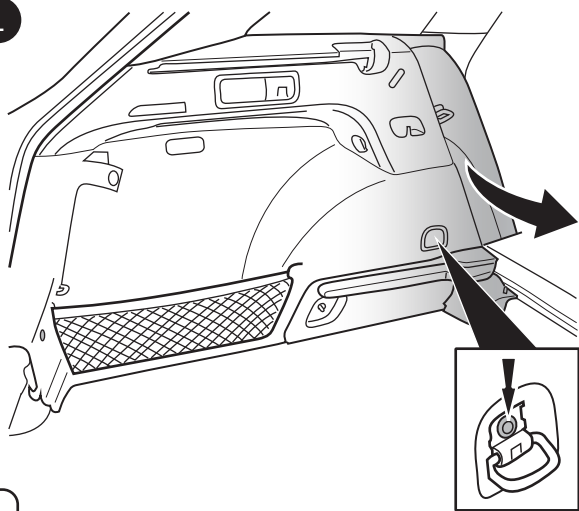
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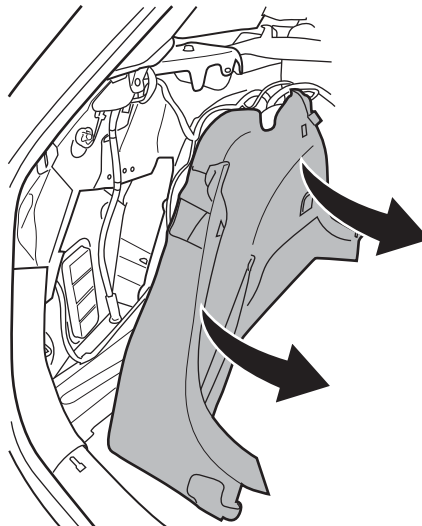
ST/ X-Perience

1

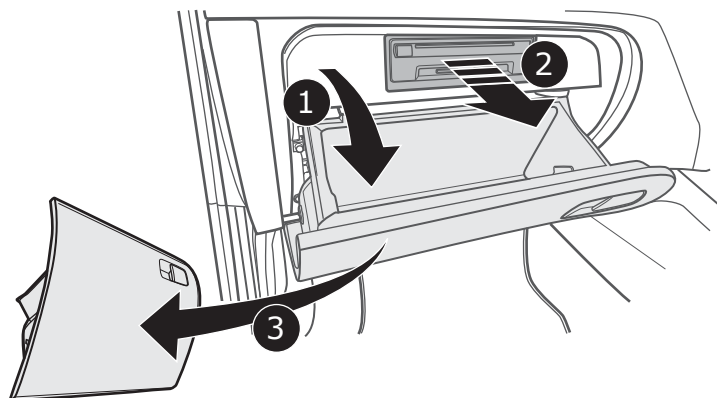
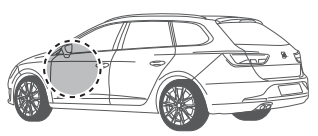


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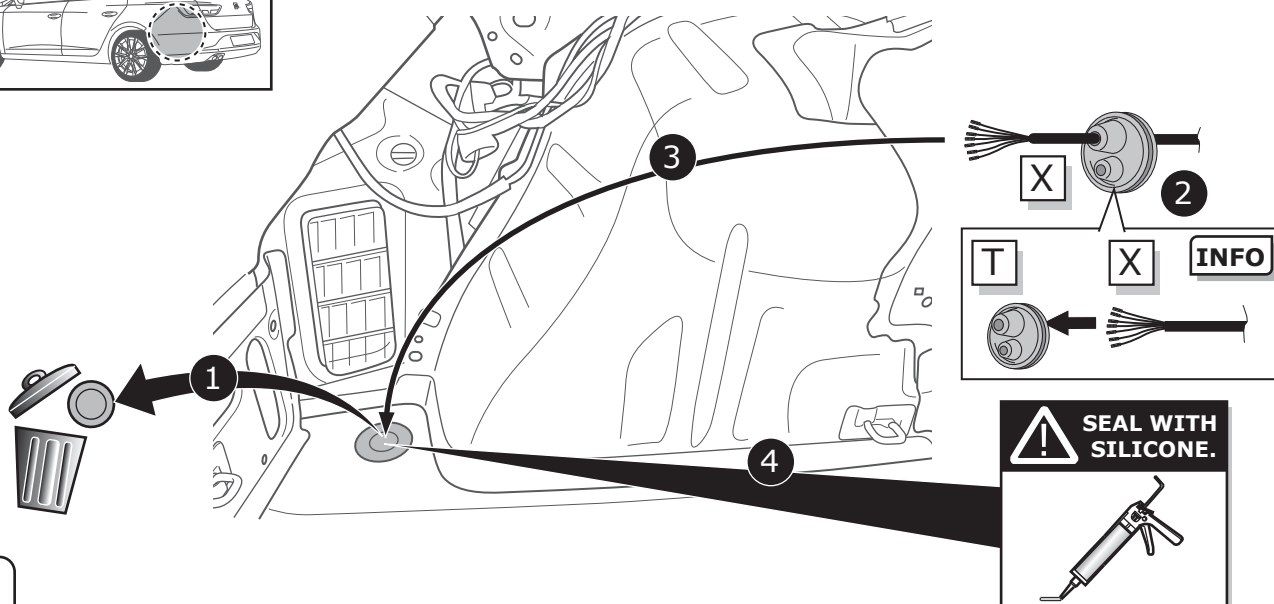
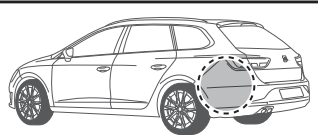


3-Door/ 5-Door/ ST/ X-Perience/ Ateca/ Cupra Ateca

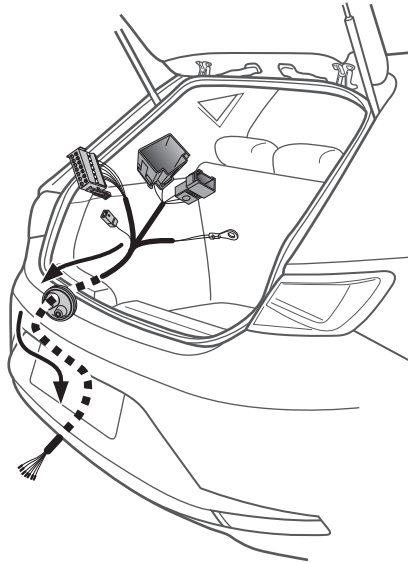


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3-Door/ 5-Door/ ST/ X-Perience/ Ateca/ Cupra Ateca



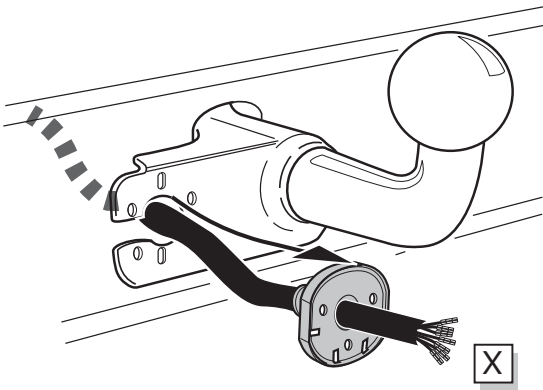
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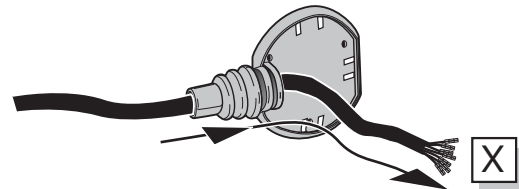
All Models

Option 1

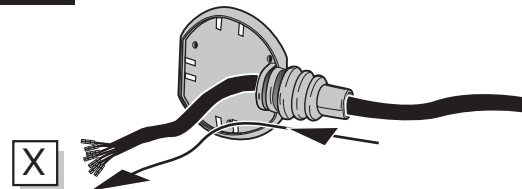


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Option 2



Option 3



All Models

SOCKET CONNECTION

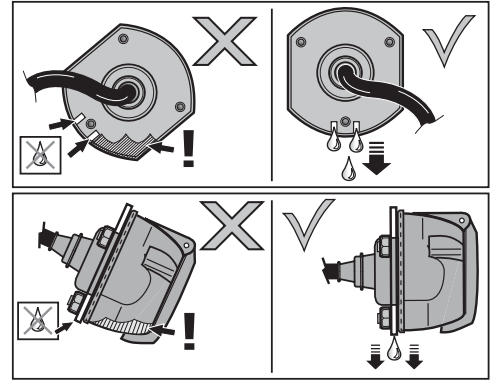
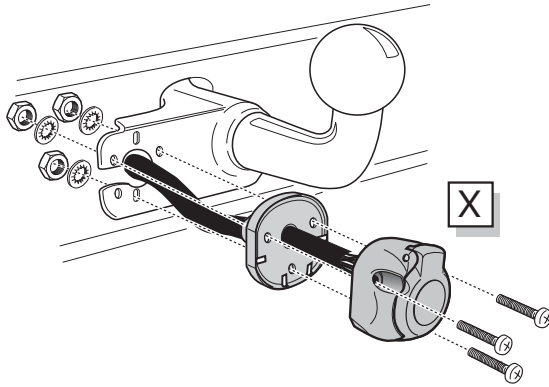


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All Models

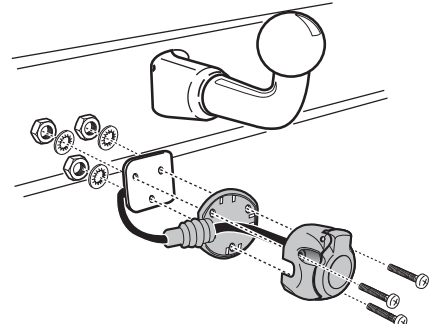
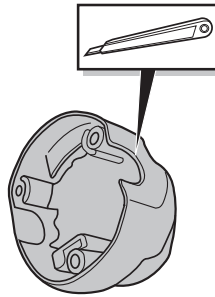
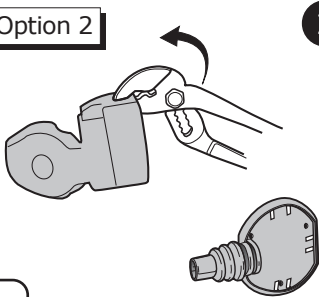
Option 1



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All Models

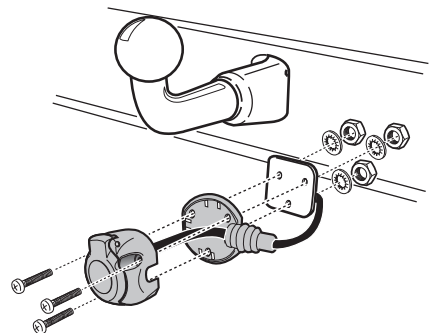
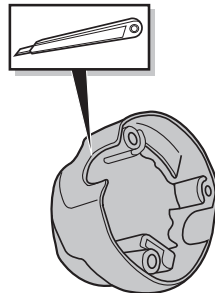
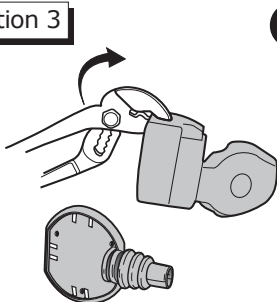
Option 2



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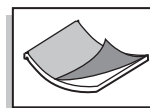
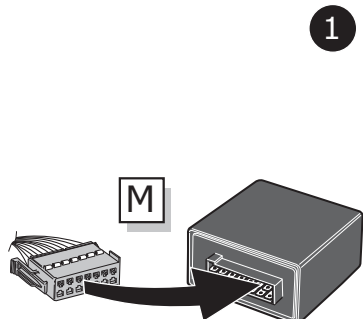
All Models

Option 3

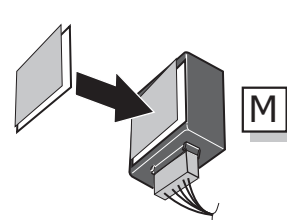


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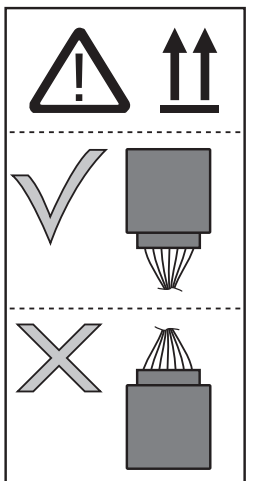
All Models



2



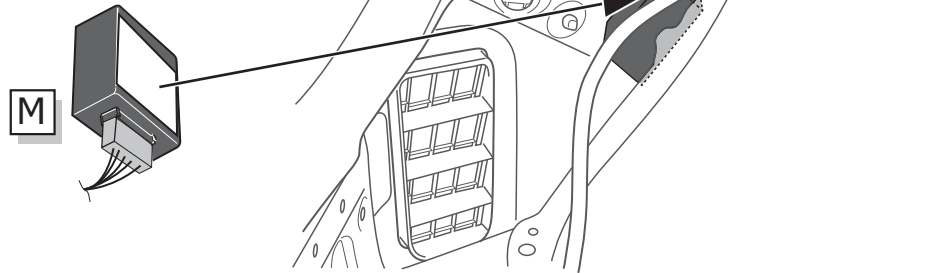
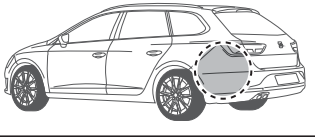
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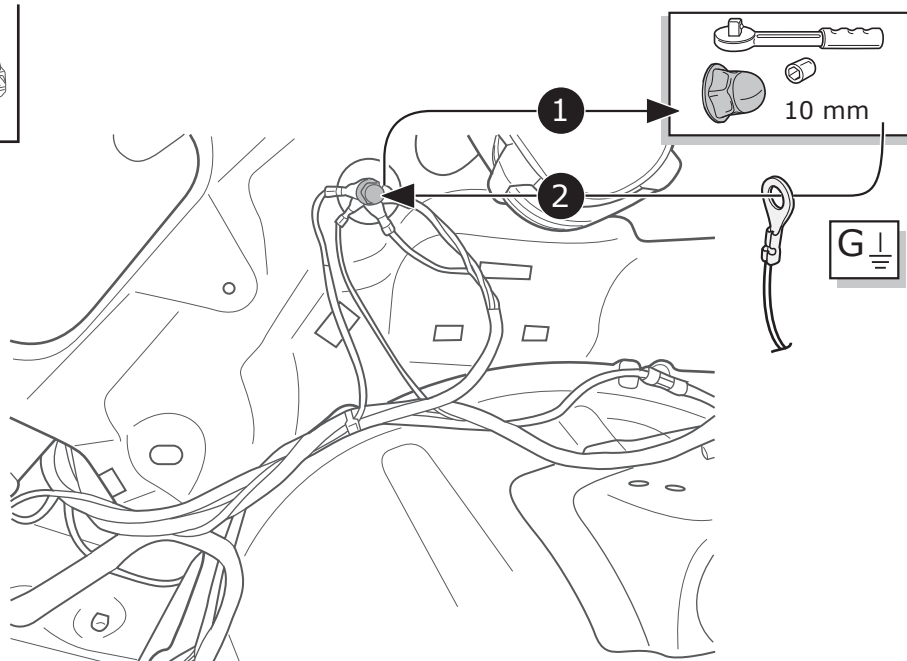
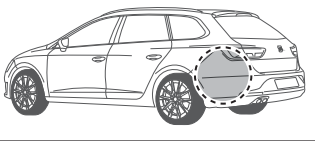
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3-Door/ 5-Door/ ST/ X-Perience



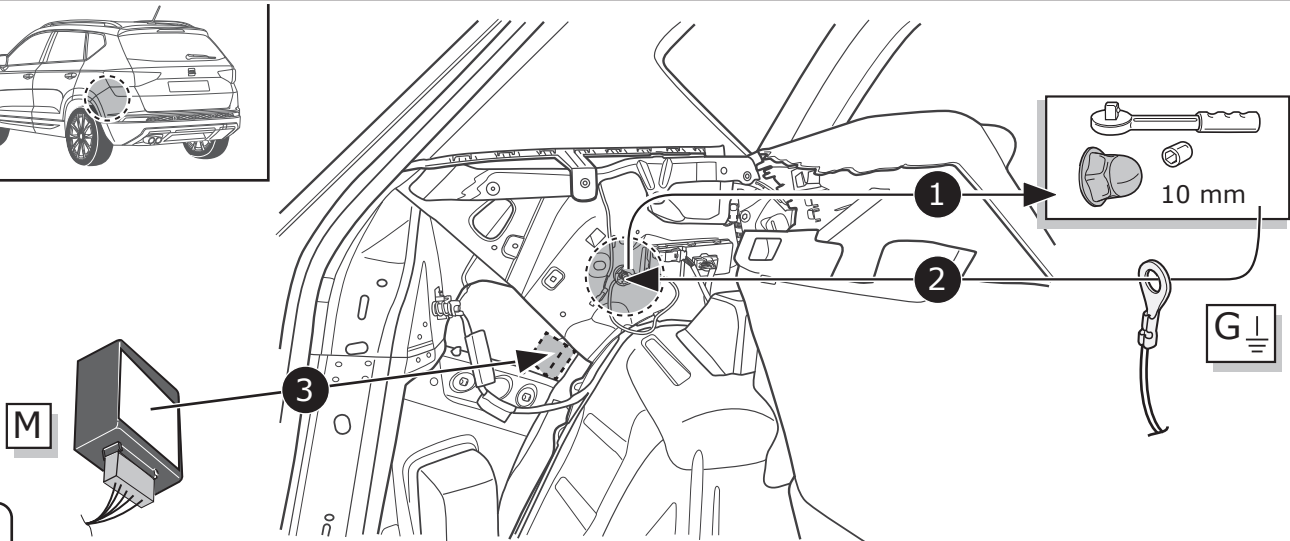
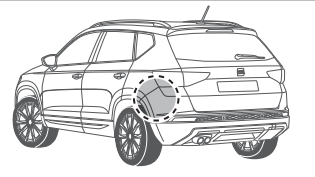
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3-Door/ 5-Door/ ST/ X-Perience

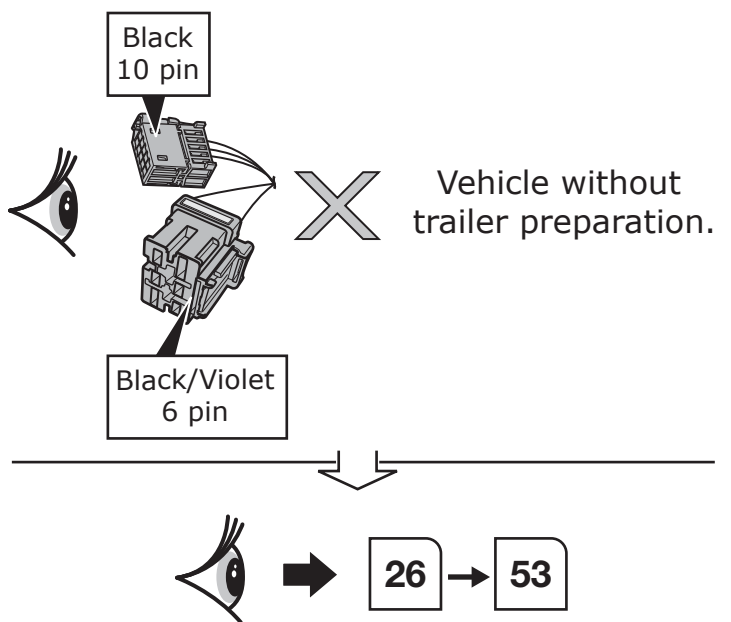
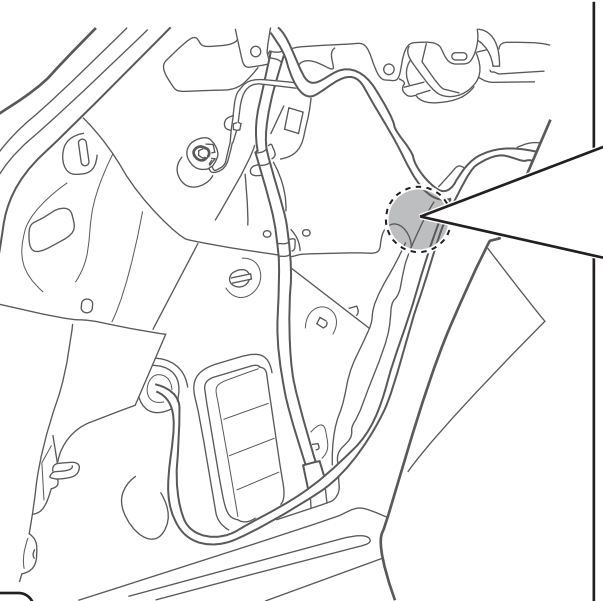
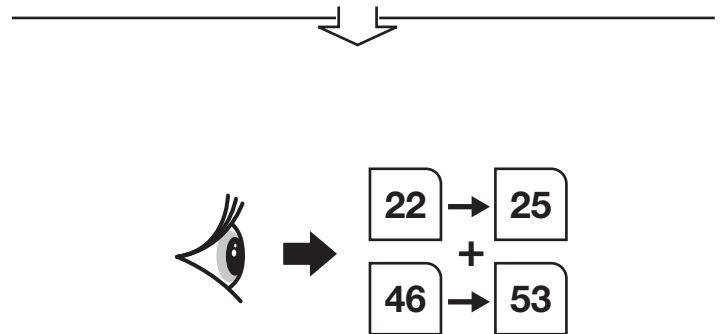
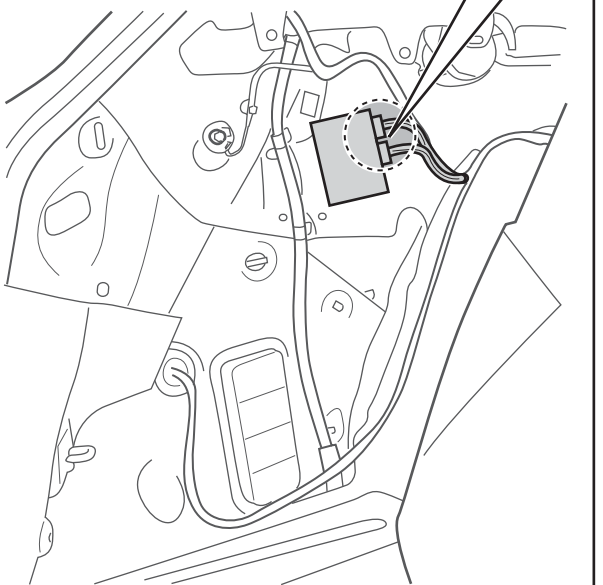
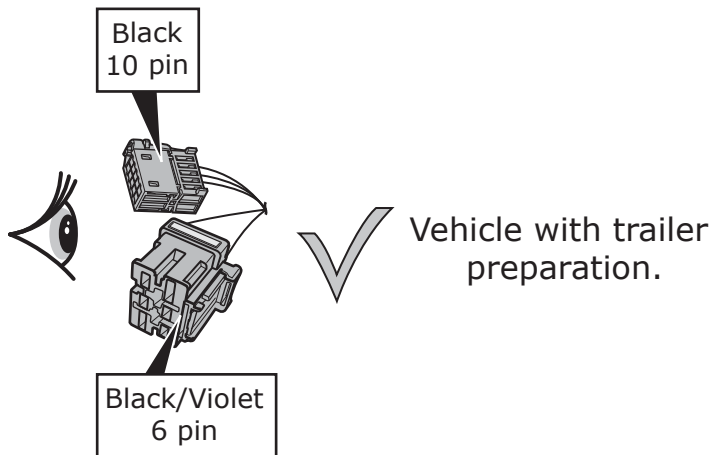
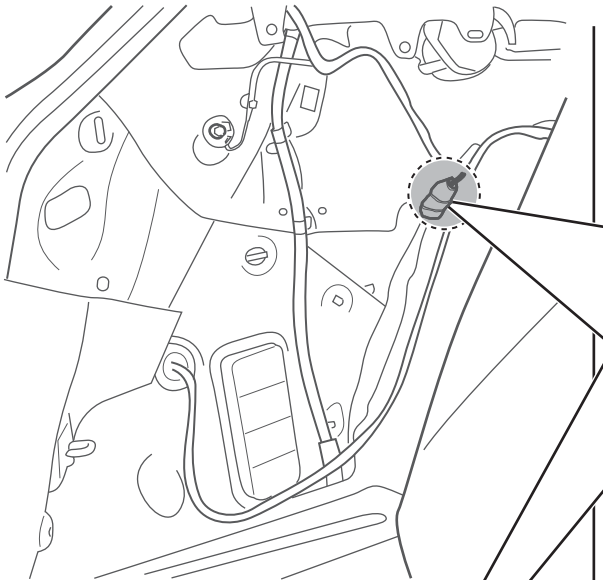


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Ateca/ Cupra Ateca



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Vehicle with trailer preparation.

! Vehicles with factory fitted trailer module

A line drawing of a vehicle's rear chassis area. A dashed circle highlights a rectangular component, the factory-fitted trailer module, which is connected to various wires. An arrow points from the text '! Vehicles with factory fitted trailer module' to this component.

A diagram showing the trailer module (a rectangular box) connected to the vehicle's wiring. Two large arrows, labeled '1', indicate the connection between the module and the vehicle's wiring harness. The module is shown with its own set of pins on the right side.

A diagram showing the connection of the trailer module to the vehicle's wiring. It includes a detailed view of the wiring harness (labeled 'A') and the trailer module. The diagram is divided into four numbered steps: 1. Disconnect the battery. 2. Connect the vehicle's wiring harness to the trailer module. 3. Connect the trailer module to the vehicle's wiring harness. 4. Connect the trailer module to the vehicle's wiring harness. A detailed view of the wiring harness shows the connection points for the vehicle's wiring (1), the trailer module (2), and the vehicle's wiring (3). A trash can icon is shown next to the wiring harness, indicating that the old wiring should be removed.

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Vehicle with trailer preparation.

! Vehicles without factory fitted trailer module

The diagram illustrates the installation of a trailer module on a vehicle without a factory-fitted module. The process is shown in four steps:

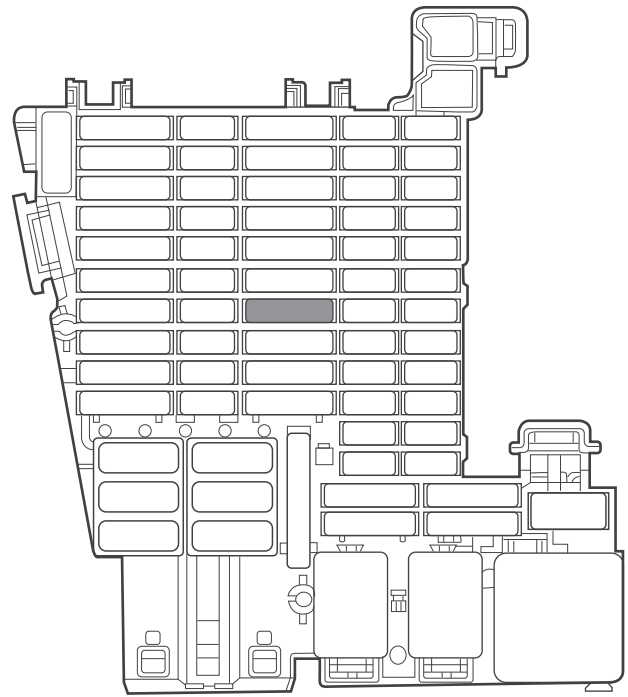
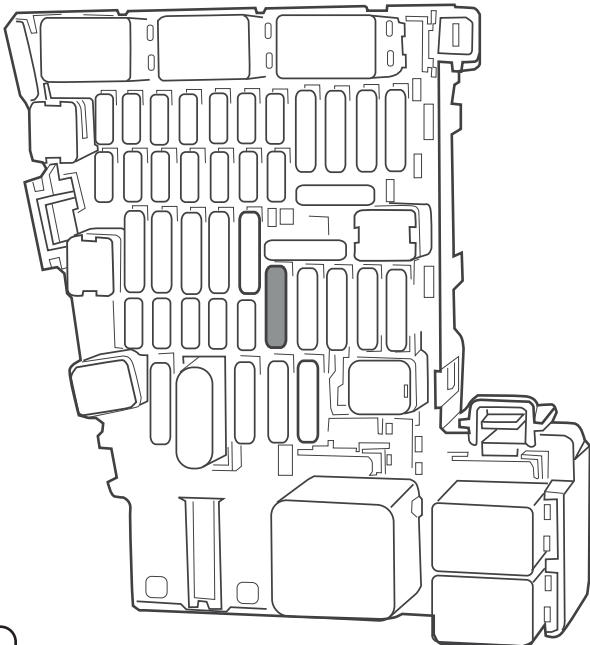
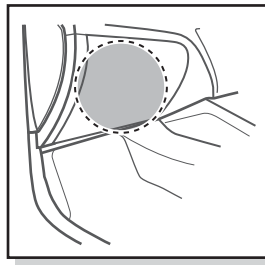
1. The vehicle chassis is shown with a dashed circle indicating the location of the trailer module. An eye icon points to this location.
2. The wiring harness assembly is shown. It consists of a main harness (1) and a sub-harness (2). The sub-harness (2) is connected to the main harness (1) using a connector (3).
3. The sub-harness (2) is connected to the main harness (1) using a connector (3).
4. The main harness (1) is connected to the vehicle's wiring harness (4) using a connector (4).

The diagram also shows a disposal bin (A) for the old wiring harness.

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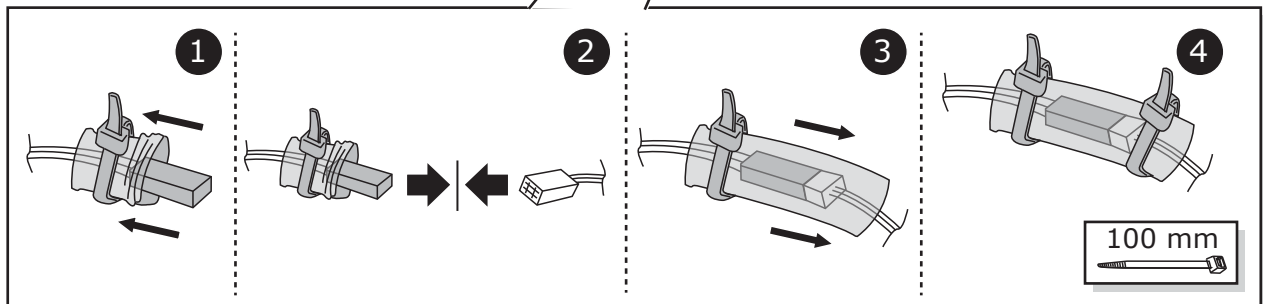
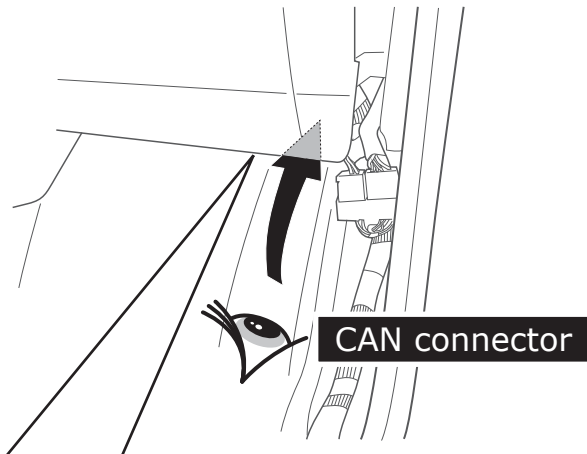
23

Vehicle with trailer preparation.



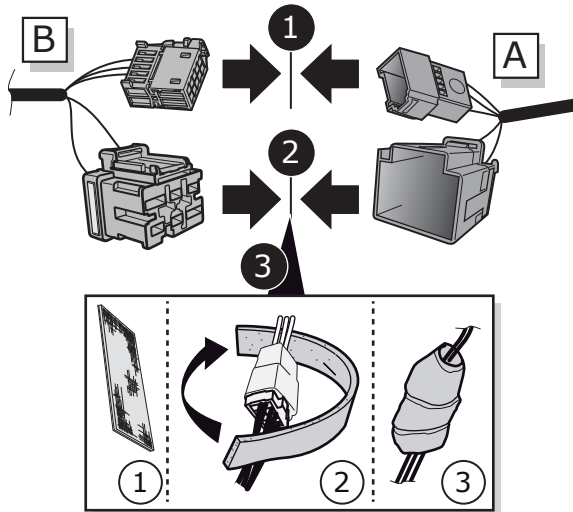
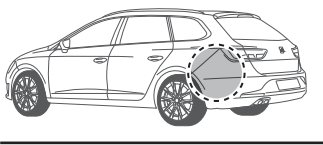
24

Vehicle with trailer preparation.



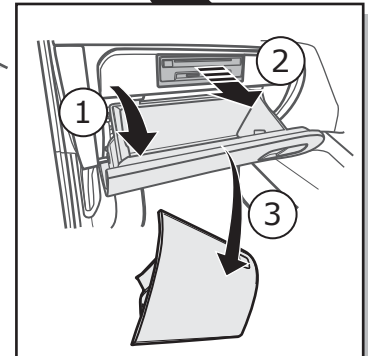
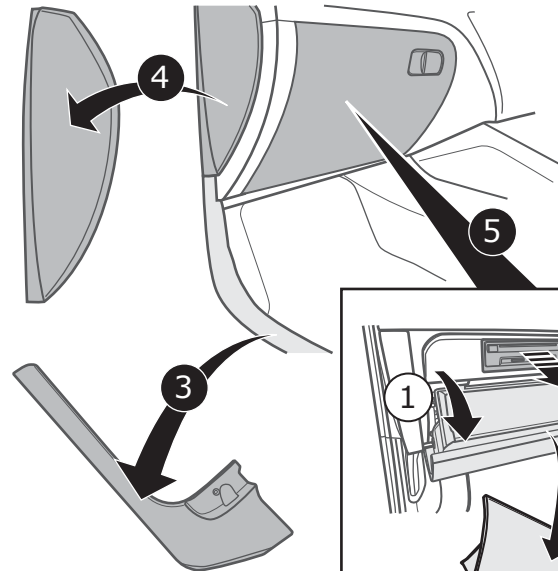
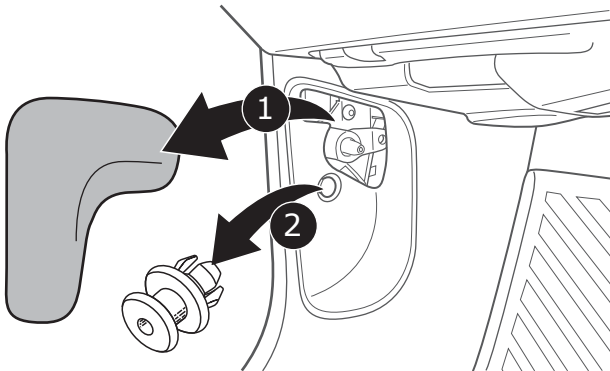
25

Vehicle without trailer preparation.



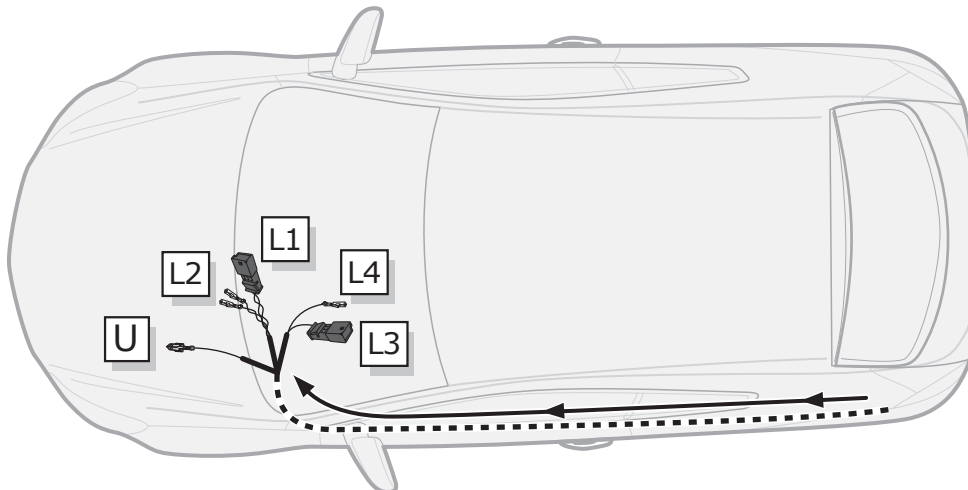
26

Vehicle without trailer preparation.



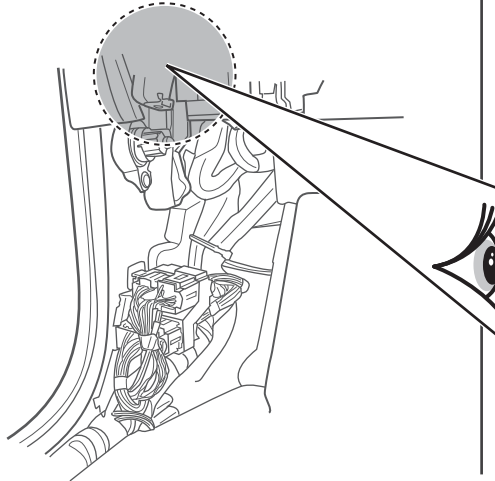
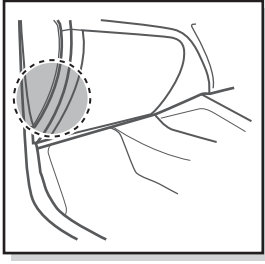
27

Vehicle without trailer preparation.

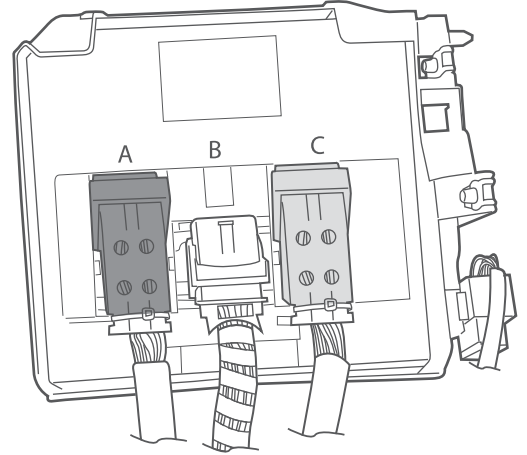


28

Vehicle without trailer preparation.



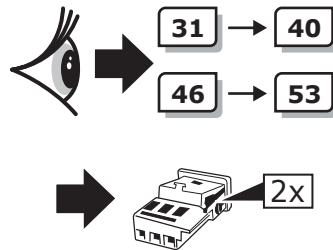
Body Control Module



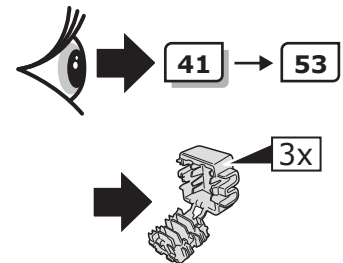
29

Vehicle without trailer preparation.

**CANbus
OPTION A**



**CANbus
OPTION B**

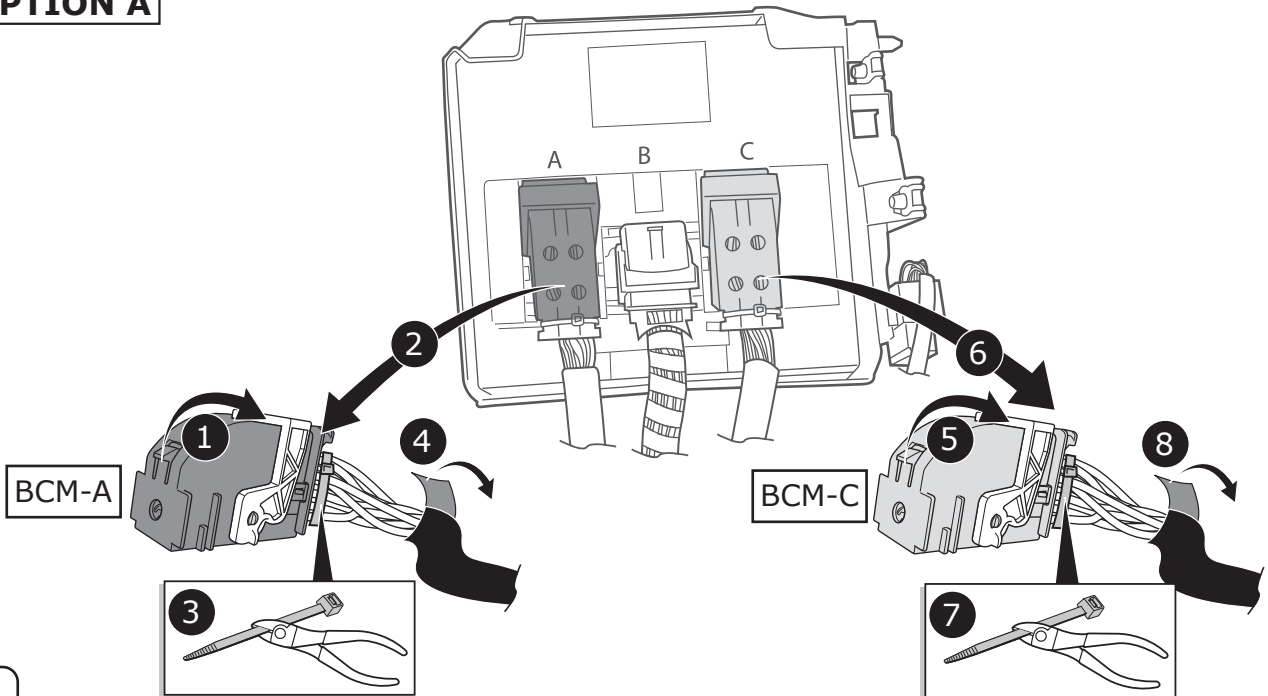


30

Vehicle without trailer preparation.

**CANbus
OPTION A**

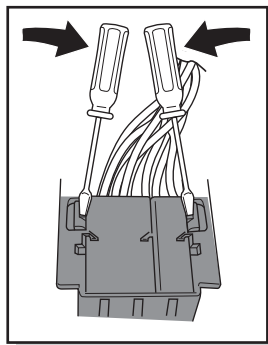
Body Control Module



31

Vehicle without trailer preparation.

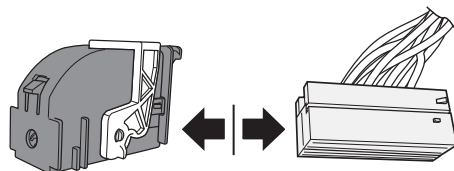
CANbus OPTION A



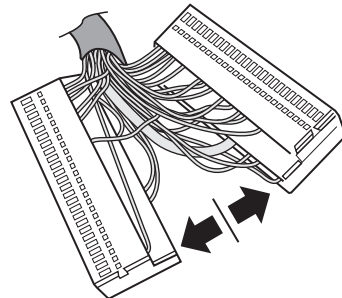
BCM-A

1

2



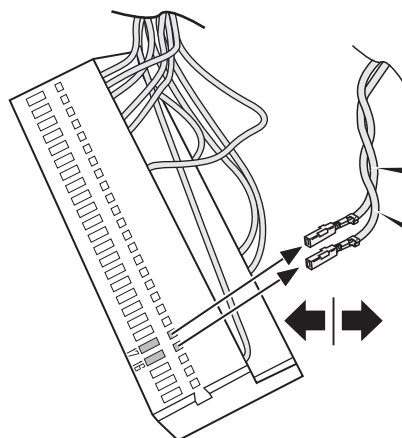
3



32

Vehicle without trailer preparation.

CANbus OPTION A



BCM-A

CAN L Orange/Brown
Pos. 17

CAN H Orange/Green
or Green
Pos. 16

Can-bus
Datawire

33

Vehicle without trailer preparation.

CANbus OPTION A

CAN L Orange/Brown
Pos. 1

CAN H Orange/Green
or Green
Pos. 2

BCM-A

LOCK

2

Orange/Brown
Pos. 1

3

L1

Orange/Green
Pos. 2

1

Orange/Brown
Pos. 17

Orange/Green
Pos. 16

Can-bus
Datawire

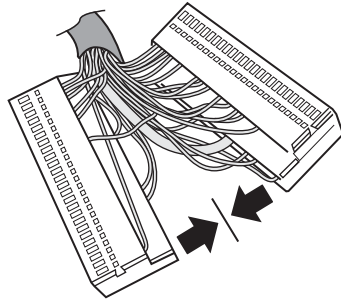
L2

4

34

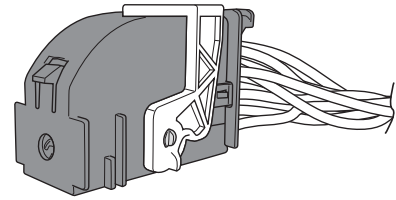
Vehicle without trailer preparation.

CANbus
OPTION A



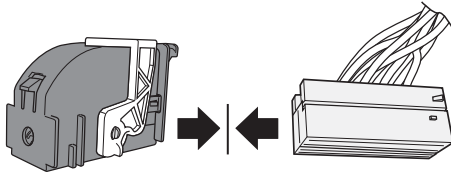
1

BCM-A



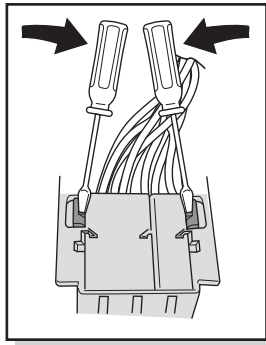
2

35



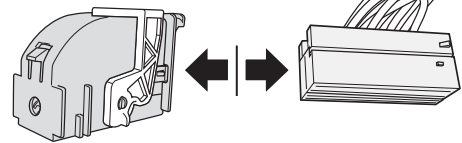
Vehicle without trailer preparation.

CANbus
OPTION A

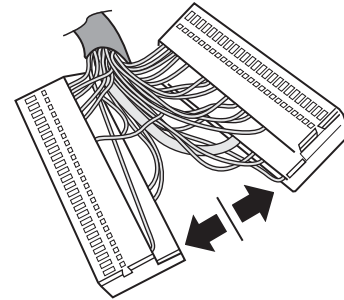


1

2



3



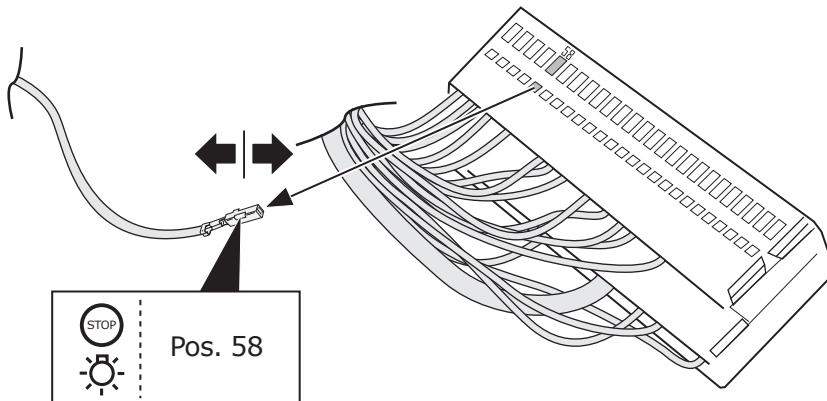
36

BCM-C

Vehicle without trailer preparation.

CANbus
OPTION A

BCM-C



37

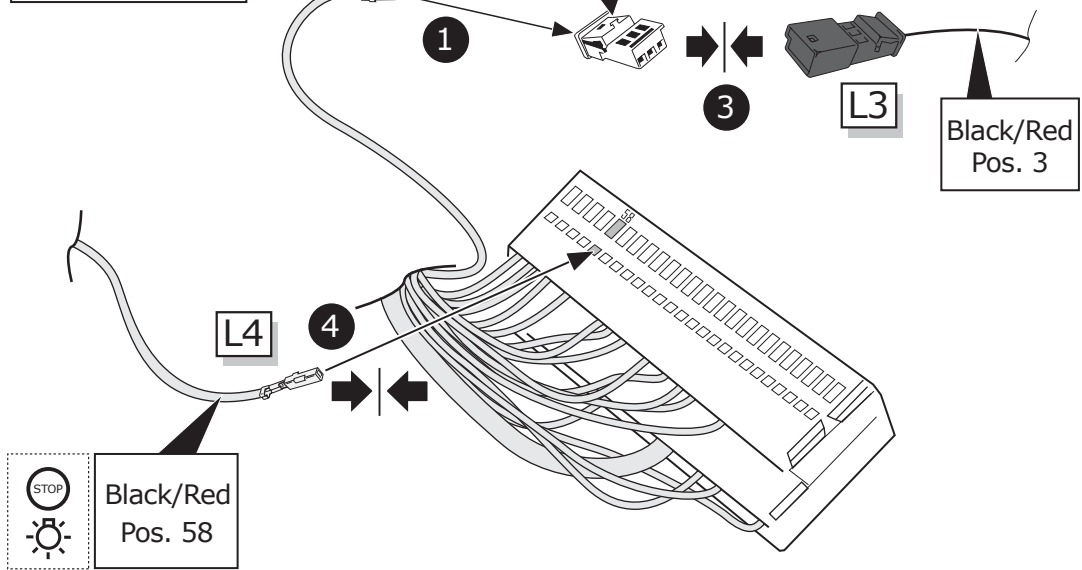
Vehicle without trailer preparation.

CANbus
OPTION A



LOCK

BCM-C

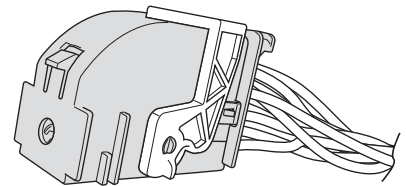
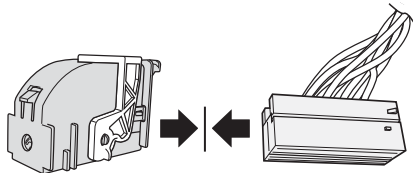
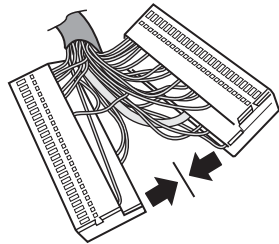


38

Vehicle without trailer preparation.

CANbus
OPTION A

BCM-C



39

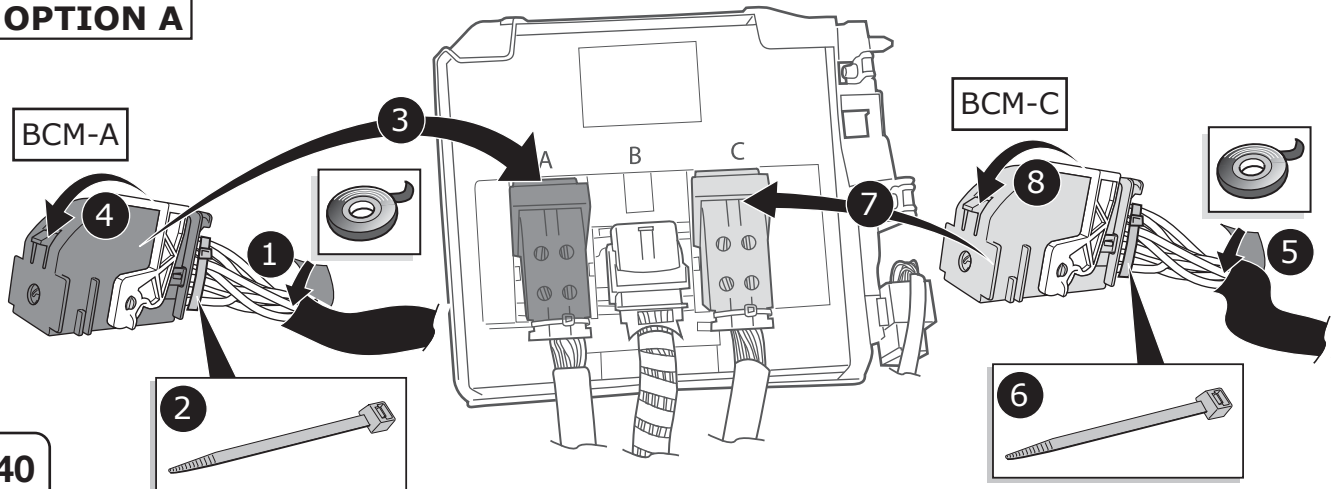
Vehicle without trailer preparation.

CANbus
OPTION A

Body Control Module

BCM-A

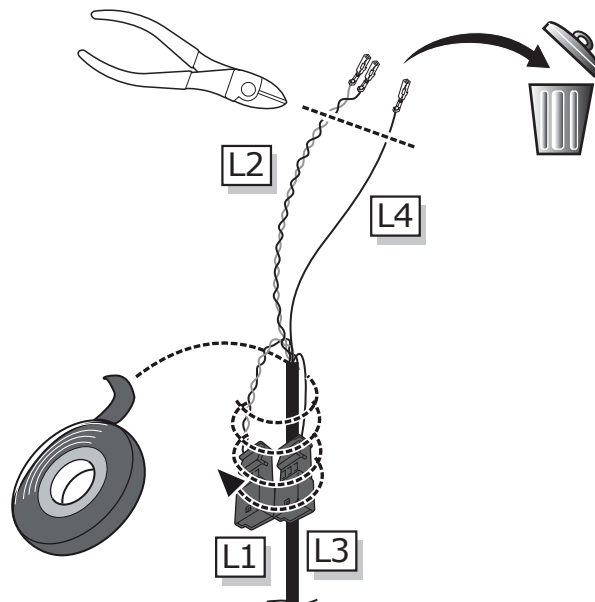
BCM-C



40

Vehicle **without** trailer preparation

CANbus OPTION B

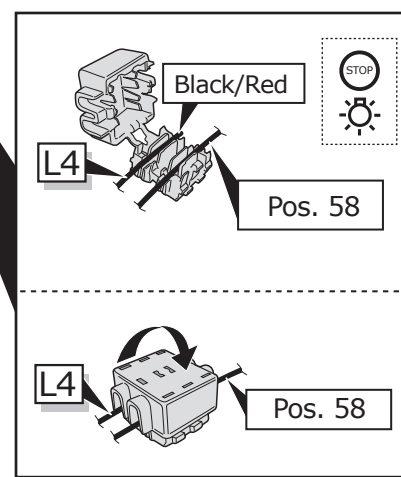
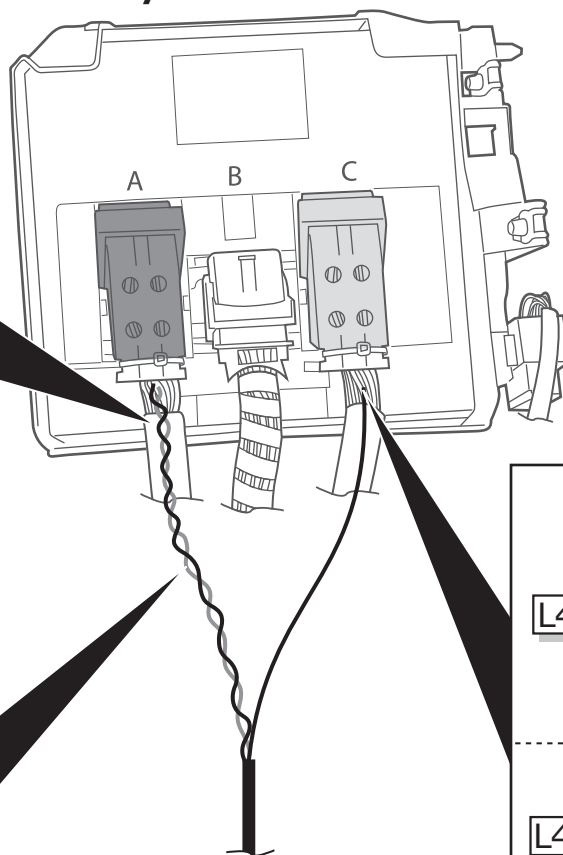
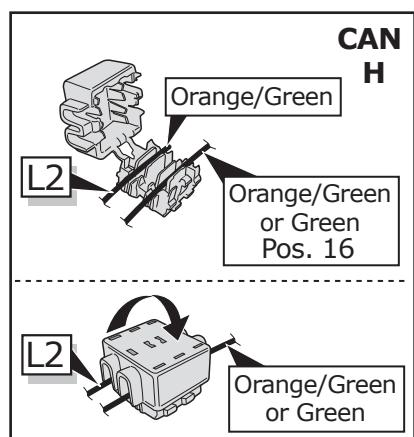
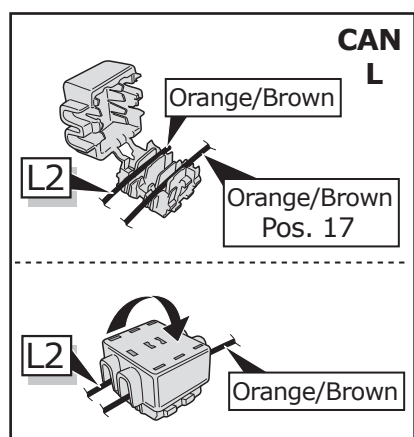


41

Vehicle **without** trailer preparation

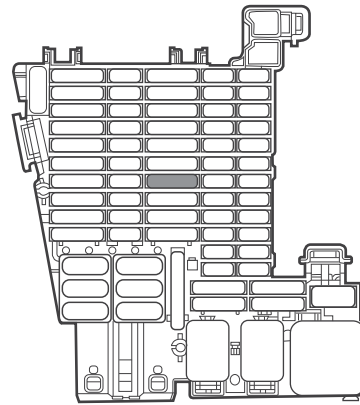
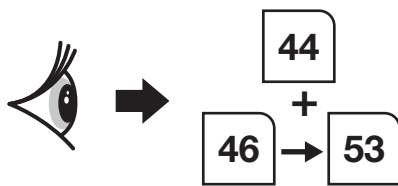
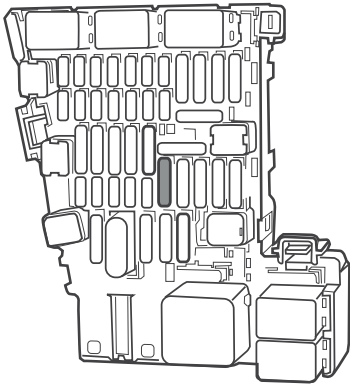
CANbus OPTION B

Body Control Module



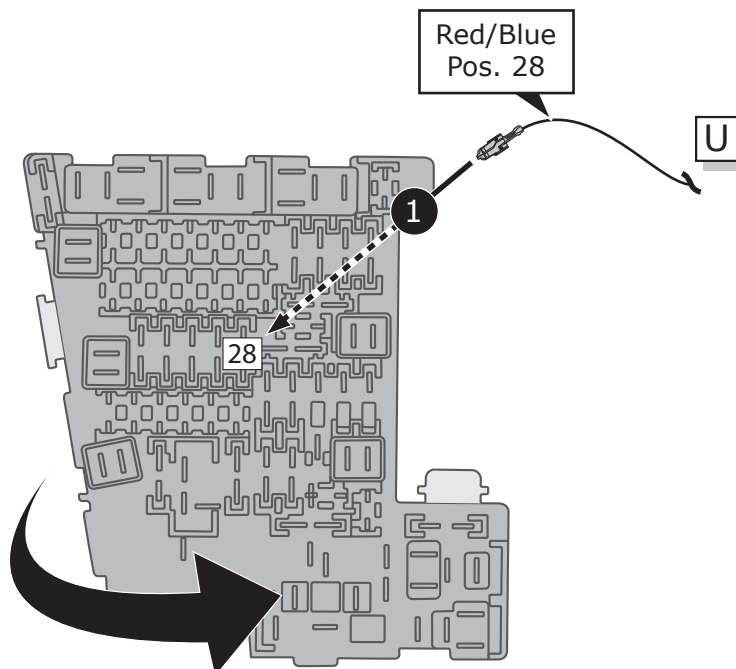
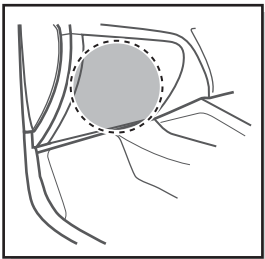
42

Vehicle without trailer preparation.

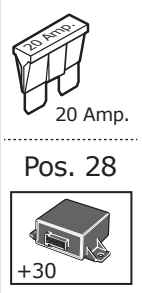


43

Vehicle without trailer preparation.

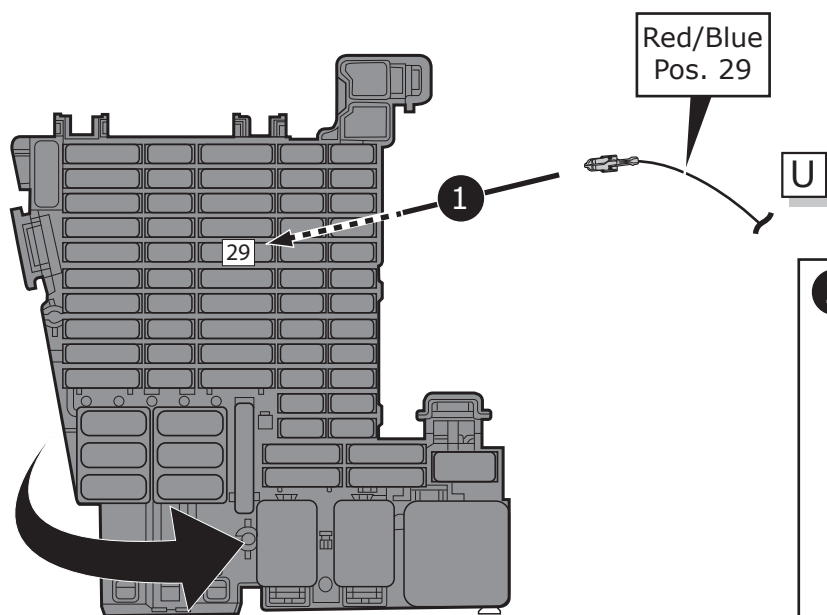
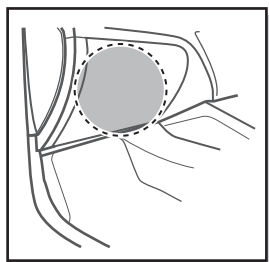


2

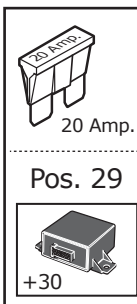


44

Vehicle without trailer preparation.



2



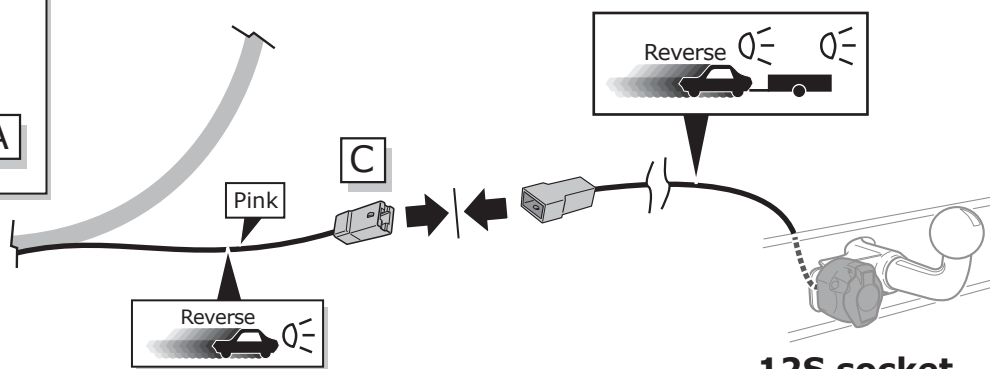
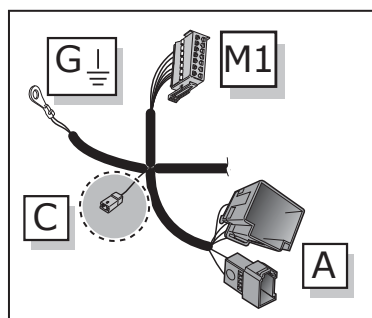
45

All Models

Optional

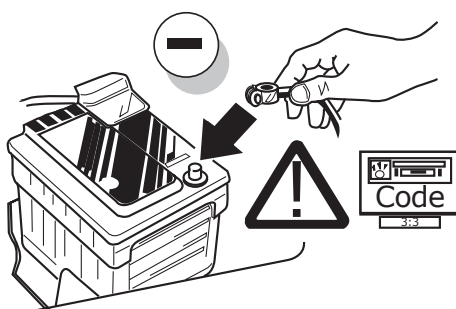


⚠ MAX = 21W



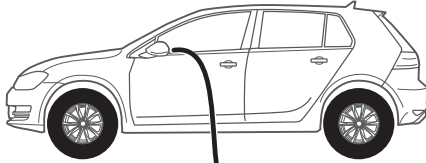
46

All Models



47

Set up trailer operation



Diagnosis Services or diagnostic methods (local / offline):

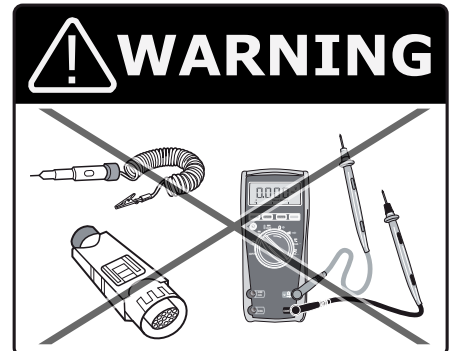
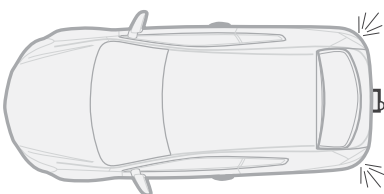
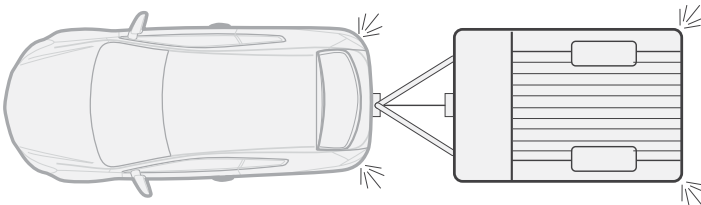
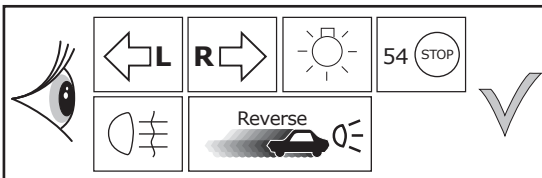
Please note:

Always use the latest diagnostic version!
The vehicle to be coded must be supported by the diagnostic service provider and already be implemented in the diagnostics version!
Please contact your diagnostic service provider in case of any question.

- ODIS (page 25)
- Hella Gutmann
- VCDS
- Autologic
- Bosch / KTS
- SP Diagnostic
- SUN
- Jifeline
- Autocom
- etc. pp.

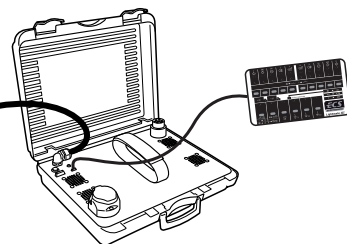
48

Functional test



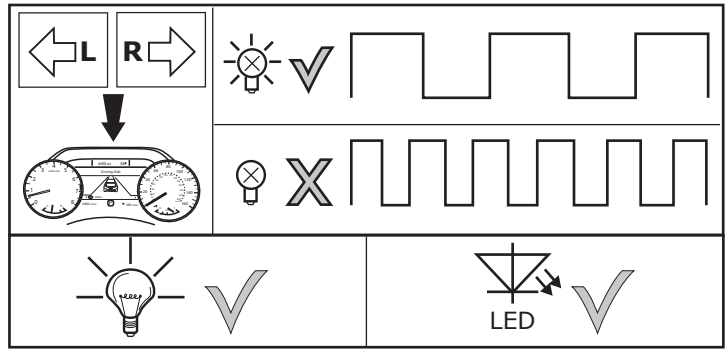
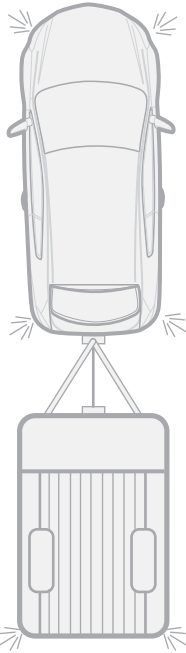
LIGHTMATE®

ECS part no.
LIGHTMATE II
LIGHTMATE III



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All Models

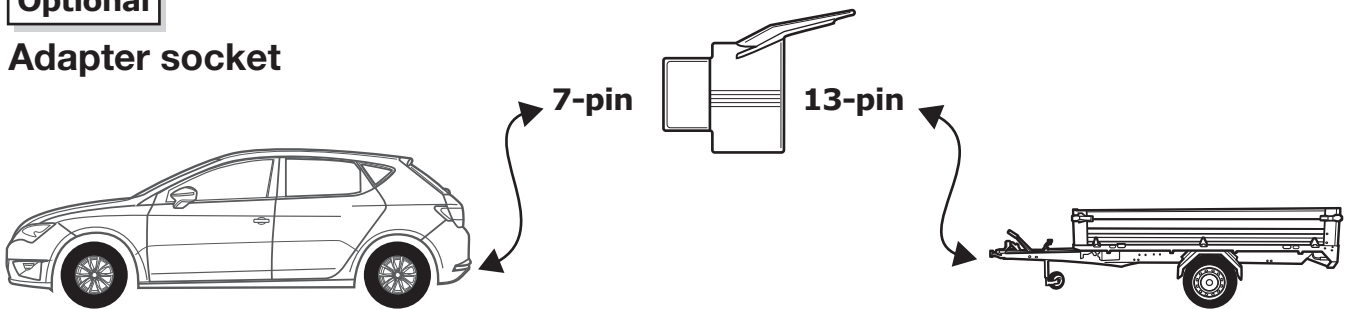


50

All Models

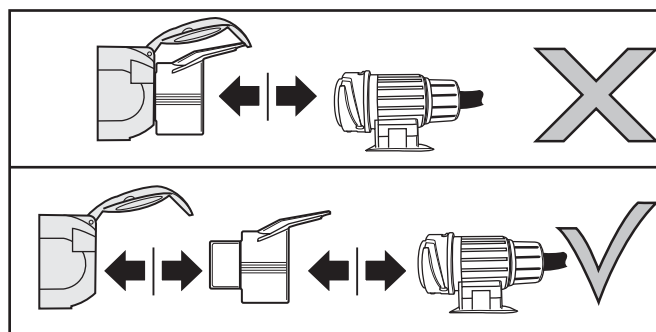
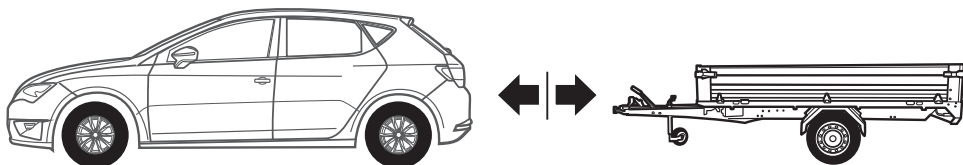
Optional

Adapter socket

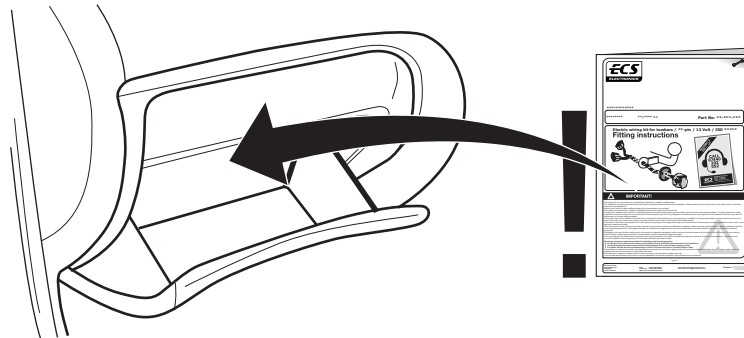


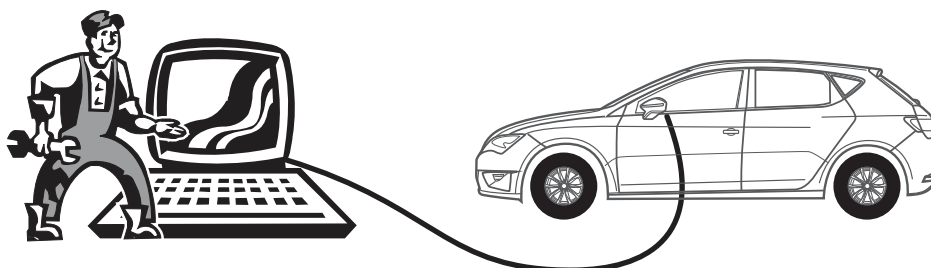
51

All Models



52





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.

Model year 2021 vehicles are equipped with a vehicle diagnosis protection (SFD). Make sure that access to locked on-board control units is granted by the diagnostic system:

Encoding 19 (Gateway)

- Control unit self diagnosis
- Access Authorisation
- Online SFD activation
- Execute

This enables 90 minutes where the adaptations/coding can be performed before the module is 're-locked'

Encoding 09 (Central Electronics)

- Control unit self diagnosis
- Access Authorisation
- Online SFD activation
- Execute

This enables 90 minutes where the adaptations/coding can be performed before the module is 're-locked'

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 (Central Electronics):

- 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 >xxxx1xxx
 - or Hex >+8

03 Brake electronics

- Access authorization > 61378
- Adjustments
- Trailer stability >Active

FFF_A5 (front sensor system controller)

- AAG >coded

HDE_6D (boot lid electronics controller)

- Trailer >installed

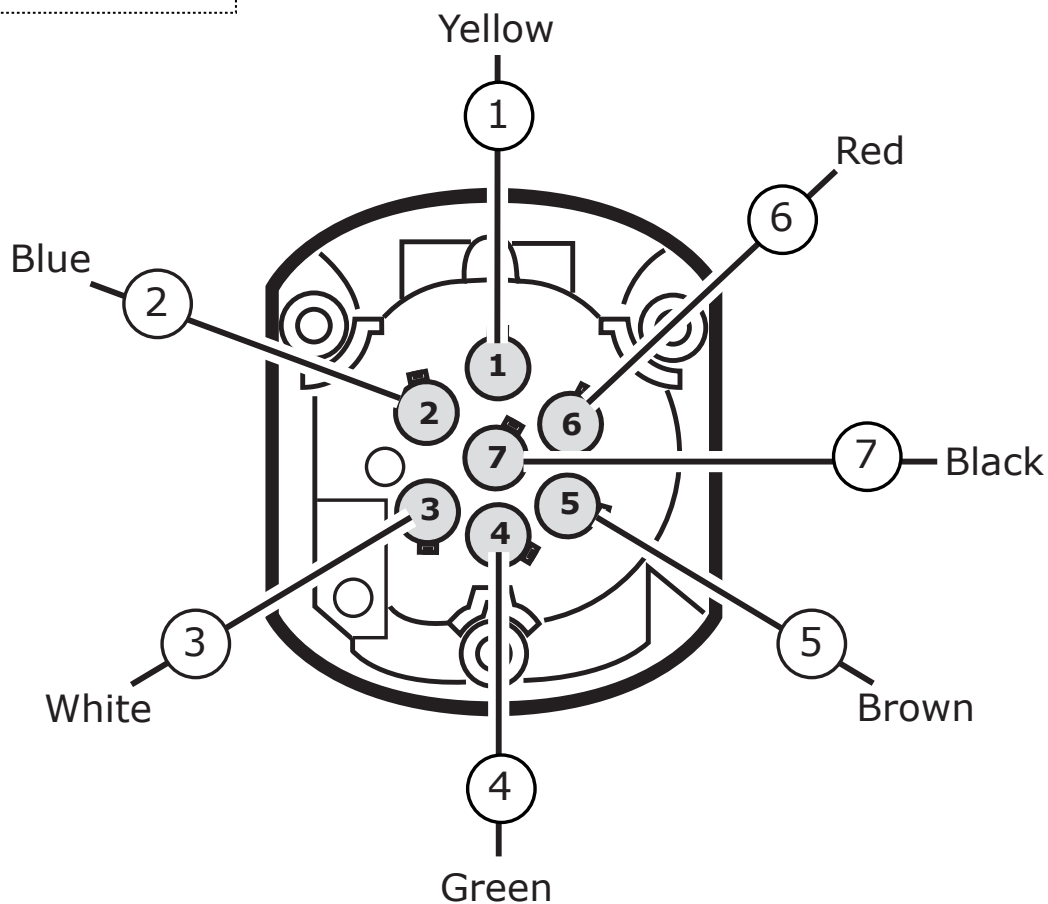
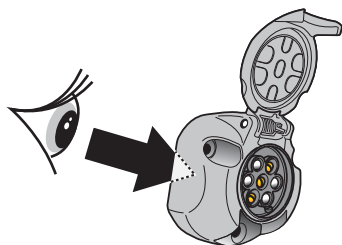
Encoding 03 (Brake electronics)

- Adaptions
 - Vehicle and trailer stabilization
 - Set to Active

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.

SOCKET CONNECTION



SOCKET CONNECTION

DIN/ISO 1724							
	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