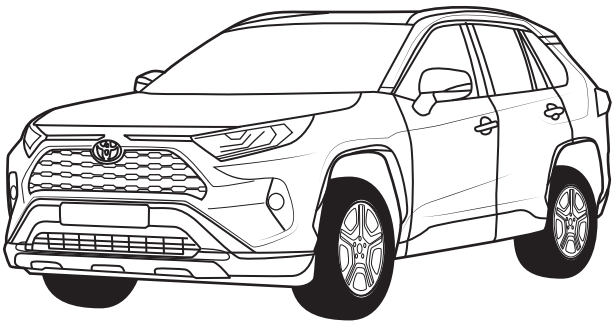


Right Connections

towbar wiring kits for the uk

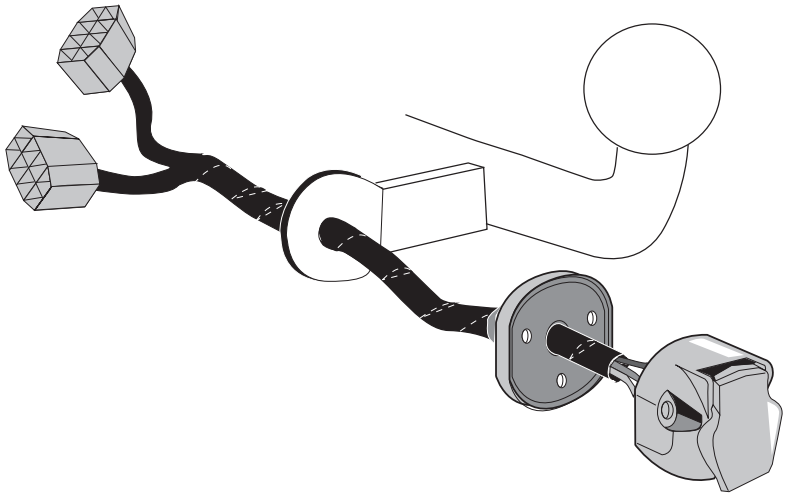
## TOYOTA / SUZUKI

| | |
|---|---|
| RAV4 | 11/2018 >> |
| RAV4 Hybrid | 11/2018 >> |
| ACROSS | 10/2020 >> |

**Part No: TO-295-13**

### Electric wiring kit for towbars / 13-pin / 12 Volt / ISO 11446

# 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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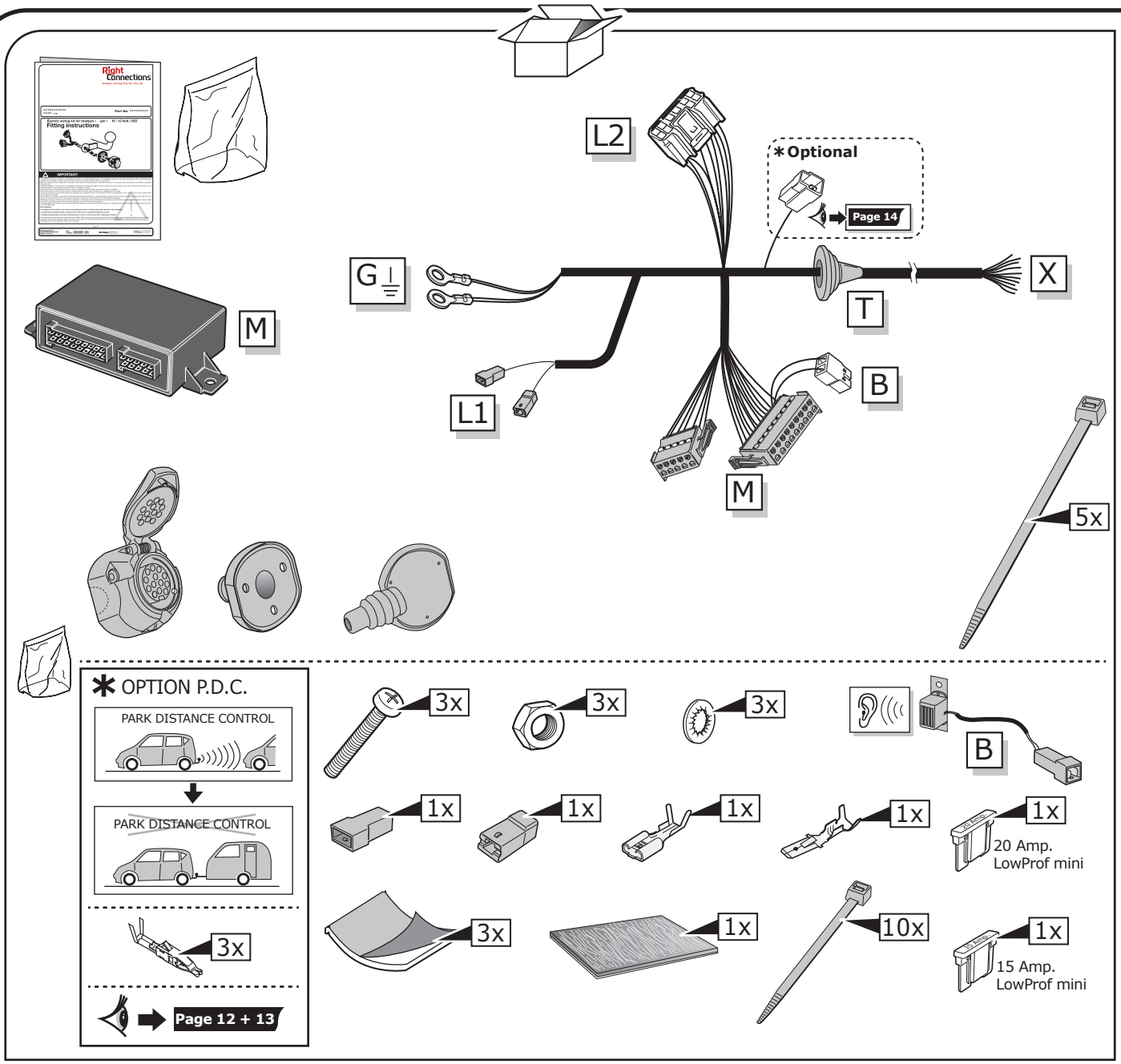
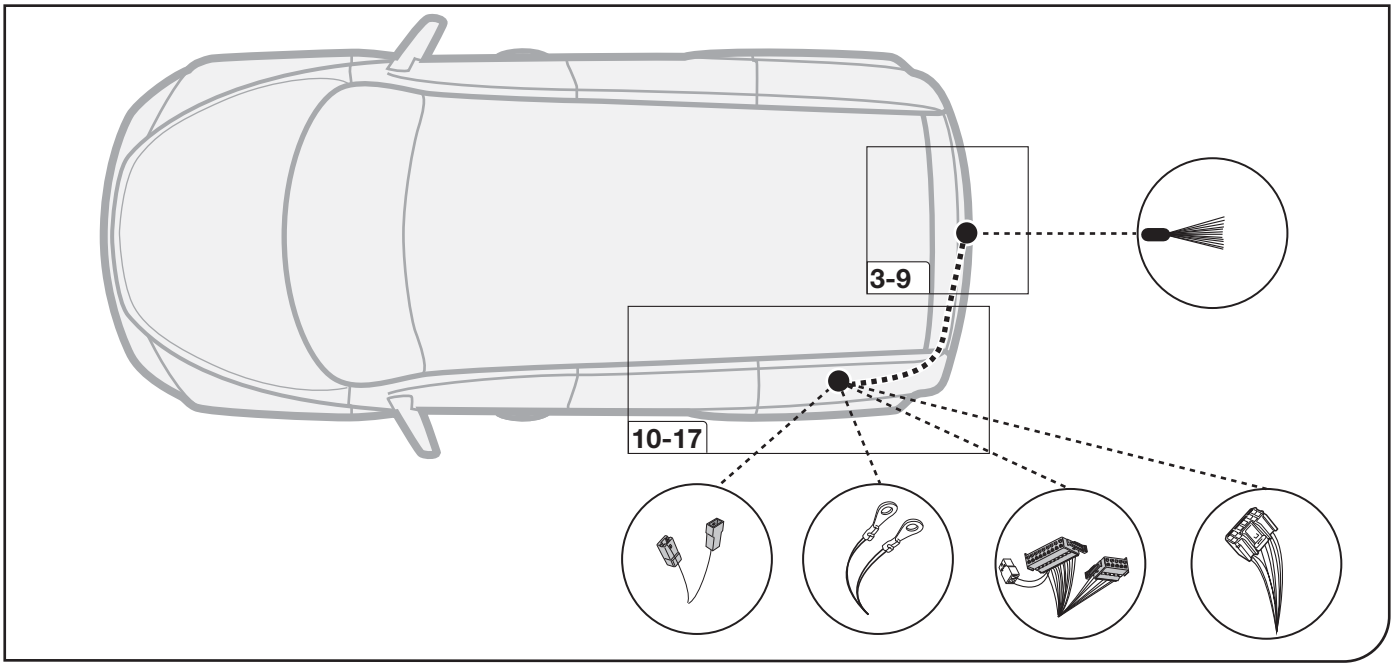
TO-295-13



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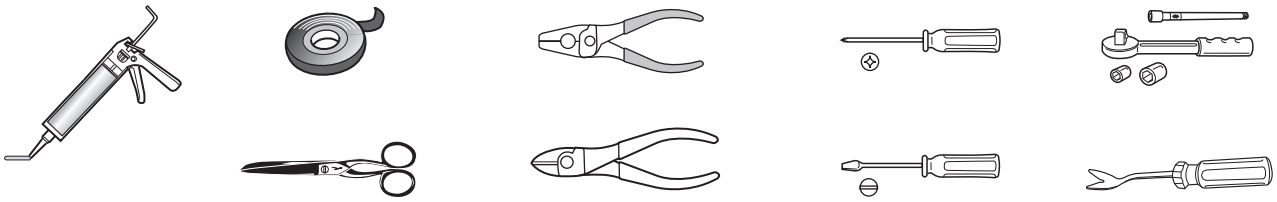
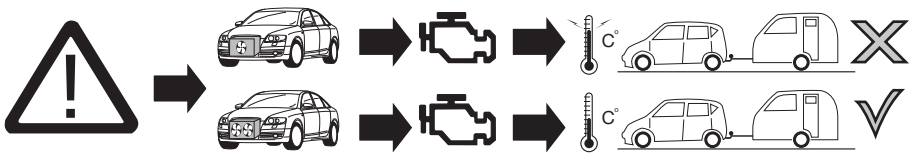
## SYMBOL EXPLANATION

| | |
|---|---|
| | 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 |

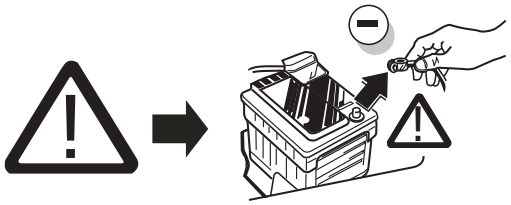
| | |
|---|---|
| 12V | Cigarette lighter / accessory socket |
| | Loudspeaker / buzzer |
| | Park Distance Control |
| | Switch / source of function |
| | Connect together |
| | Disconnect |
| | Look at / See further information |
| | Look carefully at selected area |
| | Present / Occupied / OK |
| | 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!!



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!

**1**



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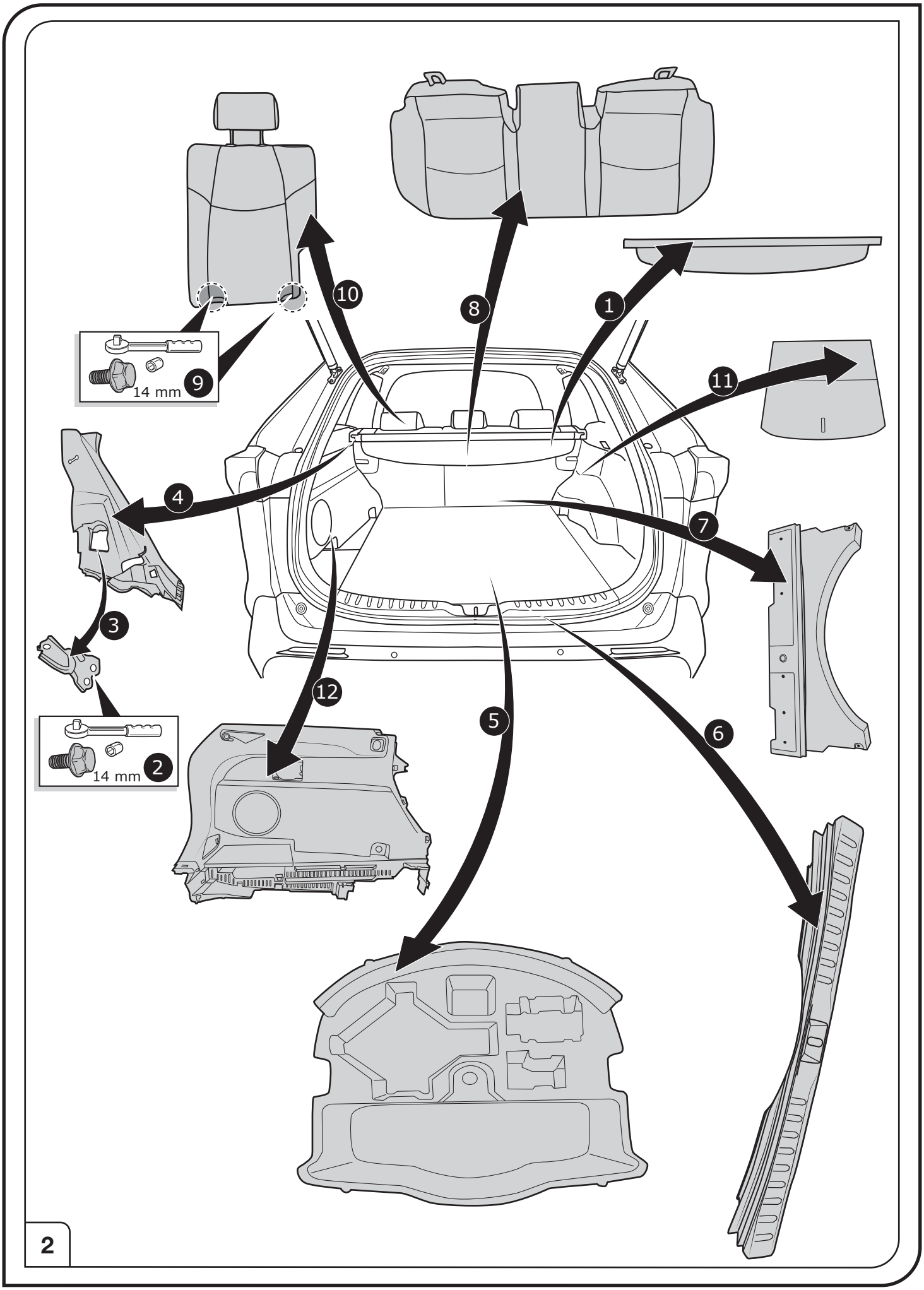


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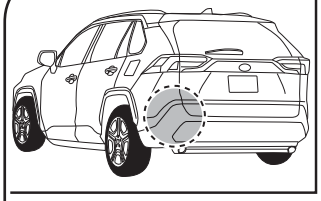

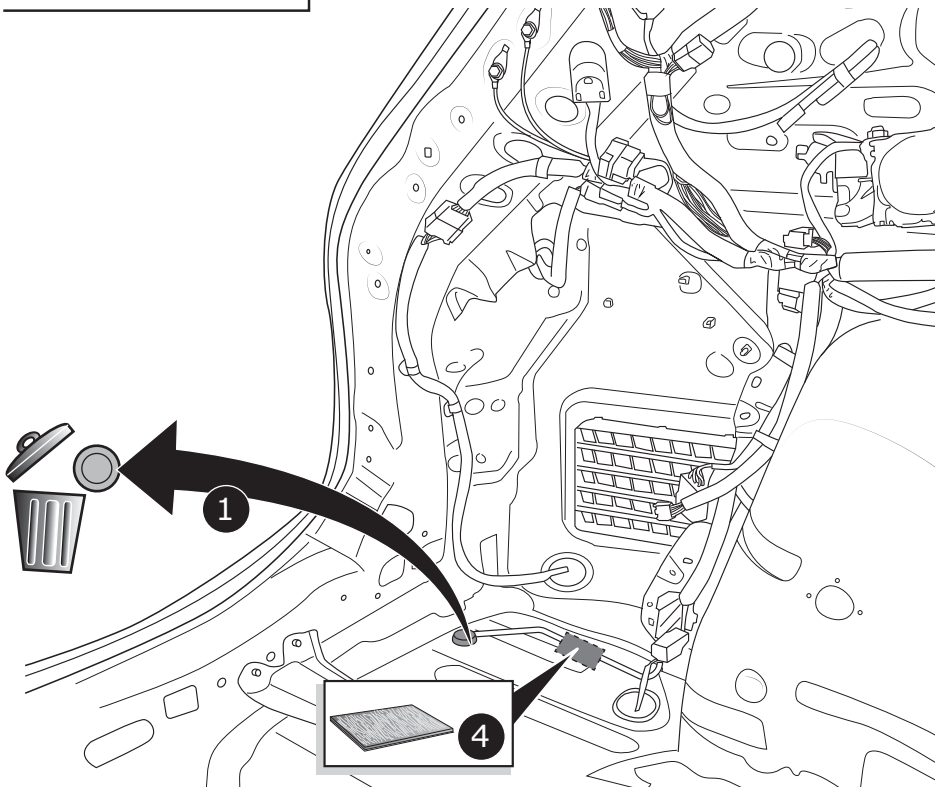


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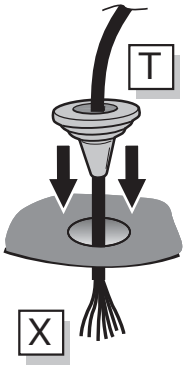


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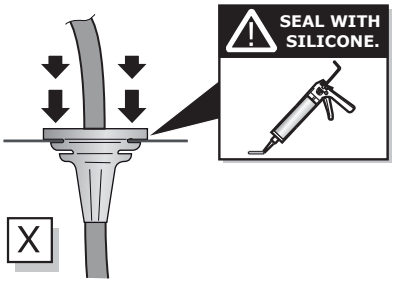


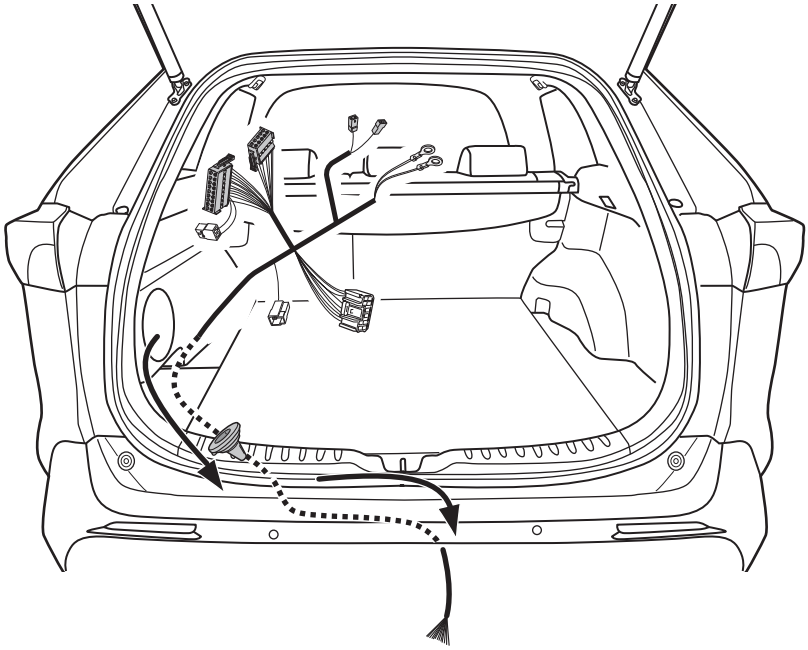

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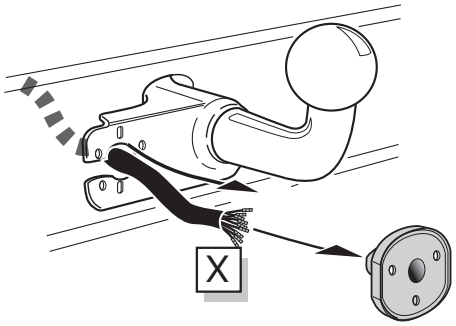


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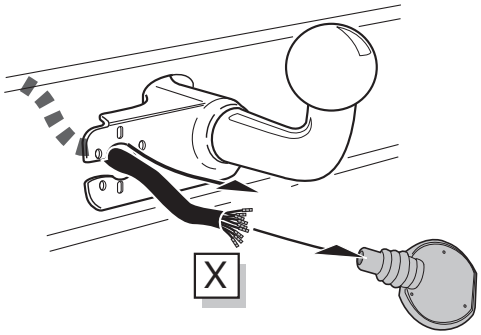
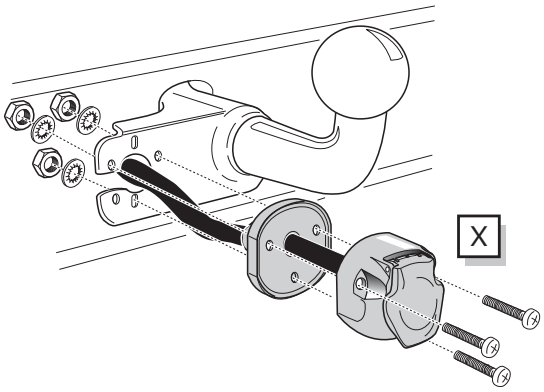
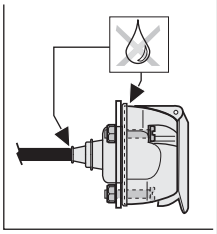



## SOCKET CONNECTION

| DIN/ISO 11446 | ⇦ | | ⏚1-8 | ⇨ | | STOP | | Reverse | 30+ | 15+ | ⏚10 | — | ⏚9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/L | 2 | 3/31 | 4/R | 5/58-R | 6/54 | 7/58-L | 8 | 9 | 10 | 11 | 12 | 13 |
| Pmax | 21W | 2x21W | | 21W | 52W | 3x21W | 52W | 2x21W | 180W/15Amp. | Option. | | | |
| Colour | Yellow | Blue | White | Green | Brown | Red | Black | Pink | Orange | Grey | White/ Black | - | White/ Red |

6



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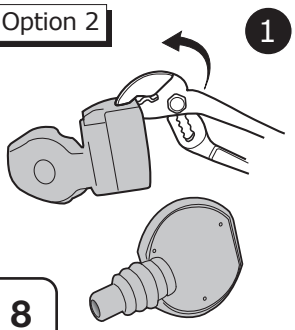


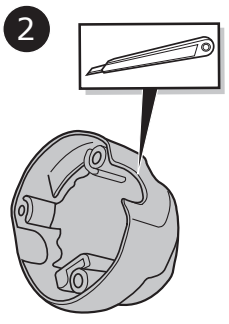


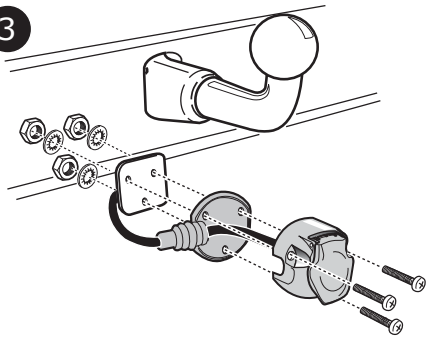


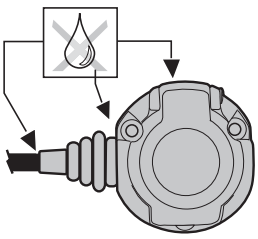

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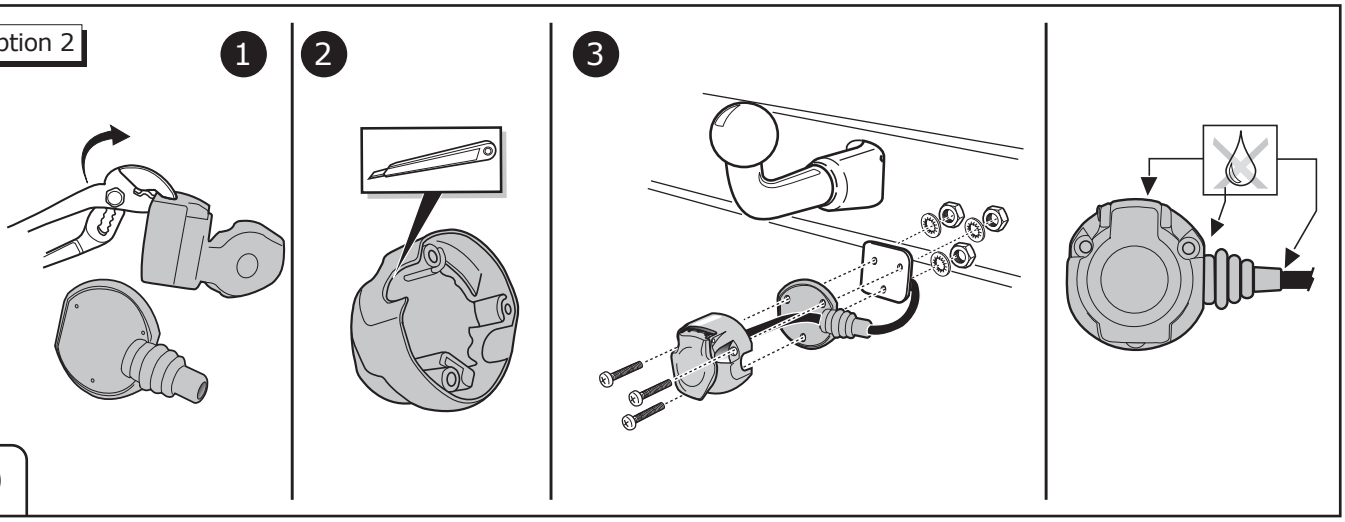


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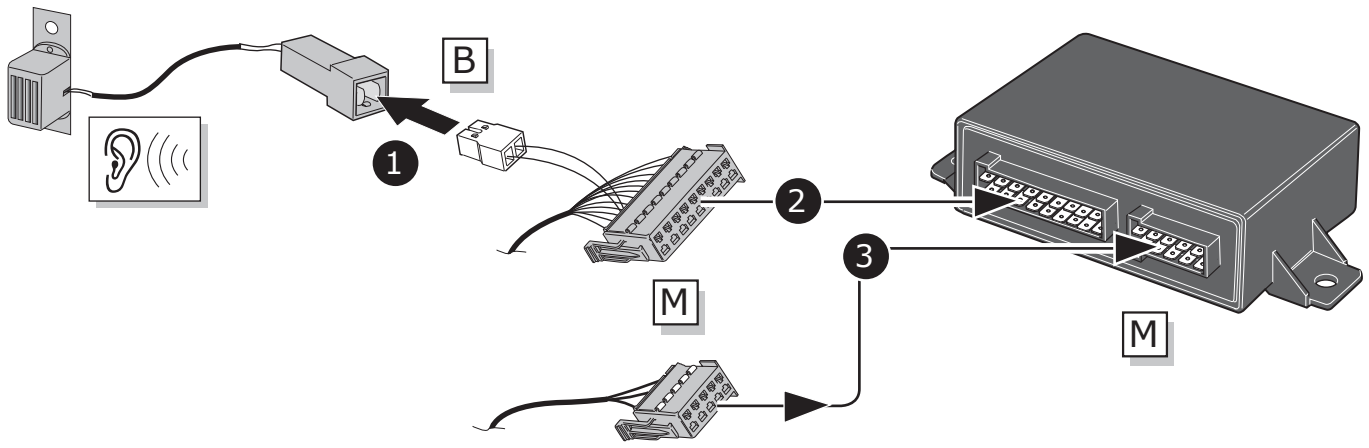


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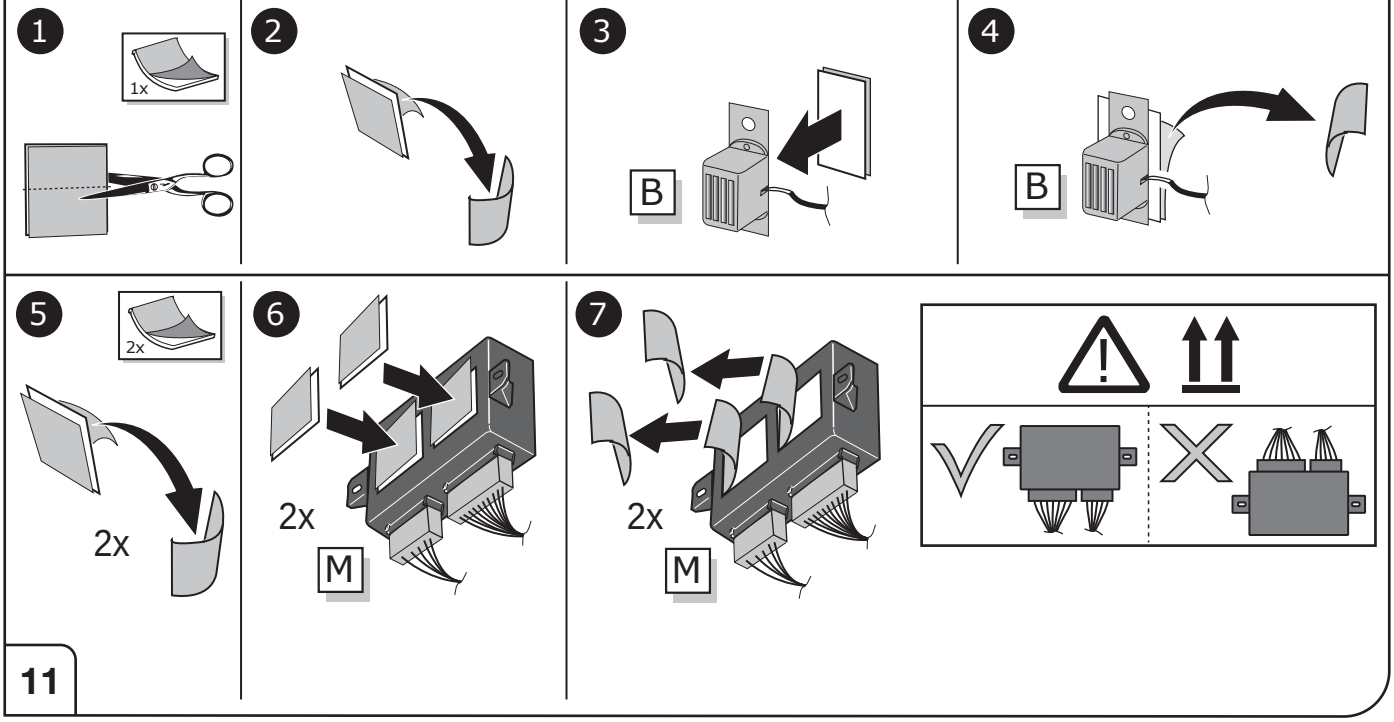


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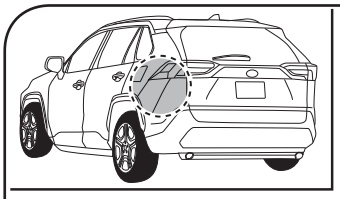

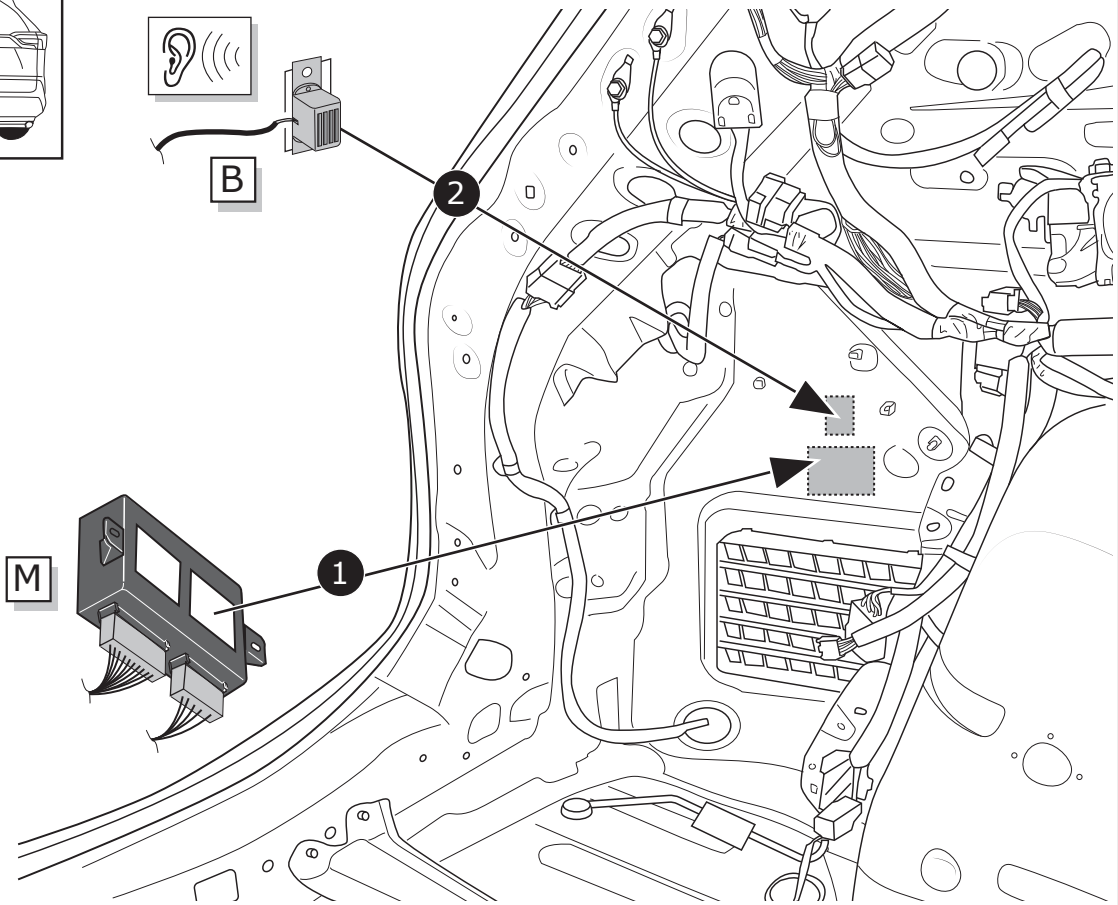


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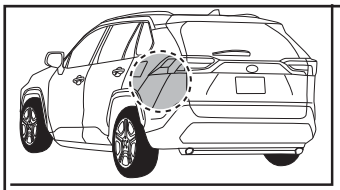

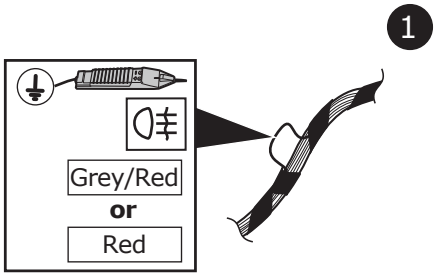


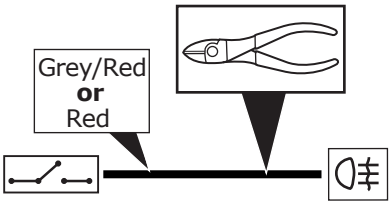


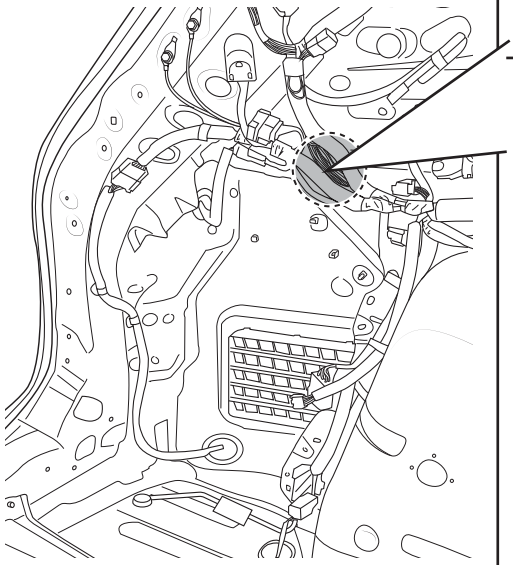

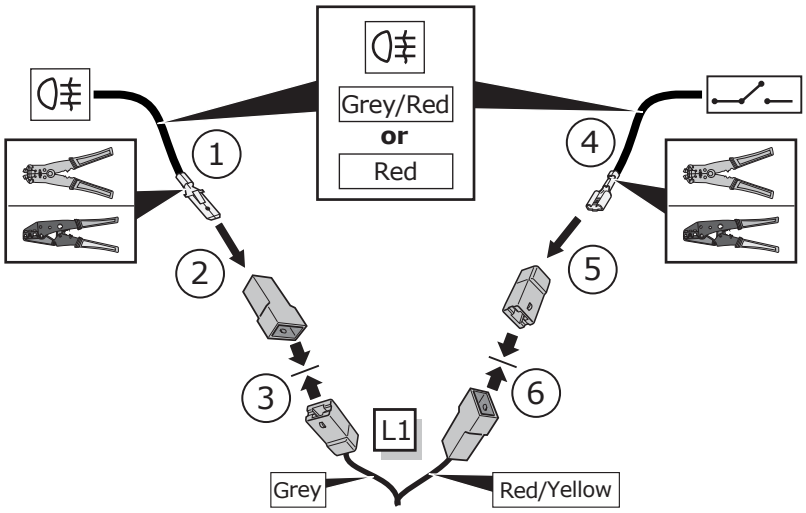


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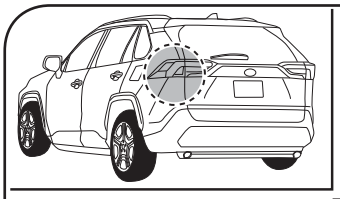




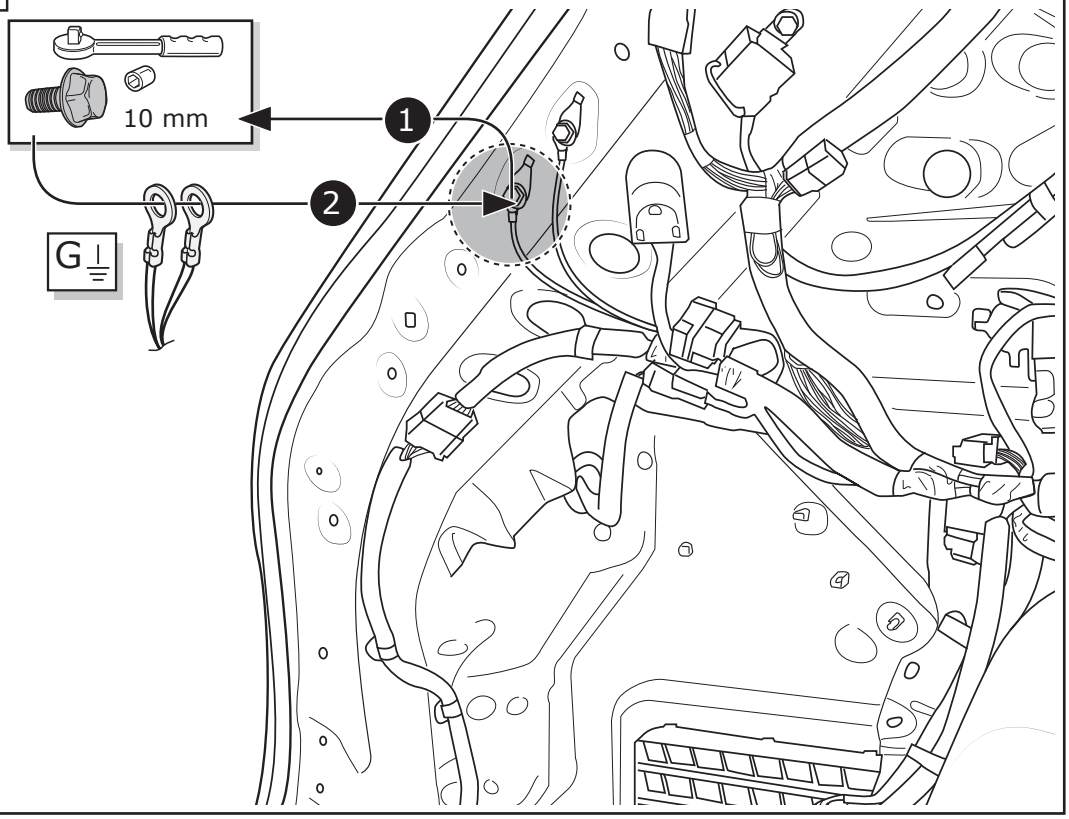


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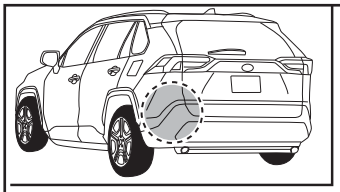

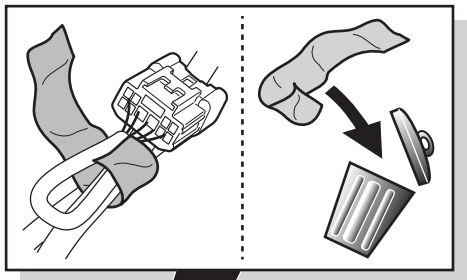

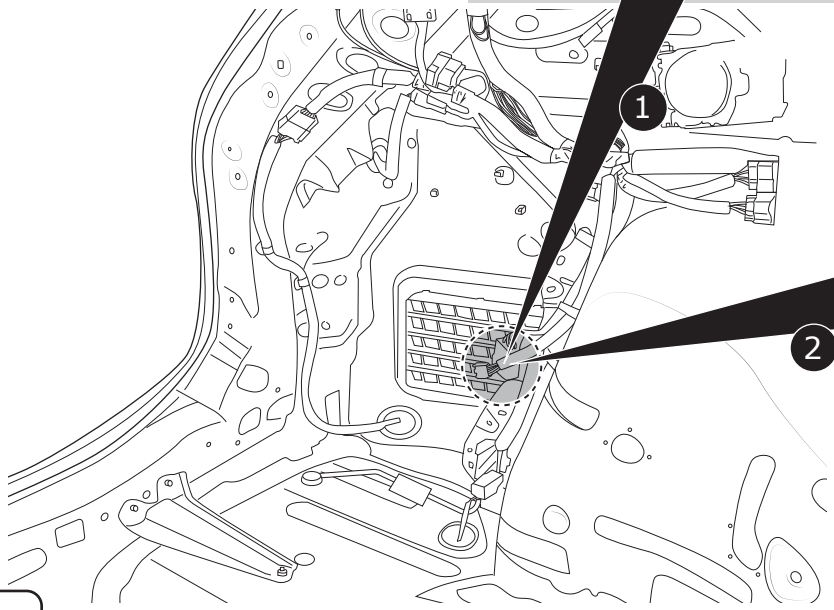


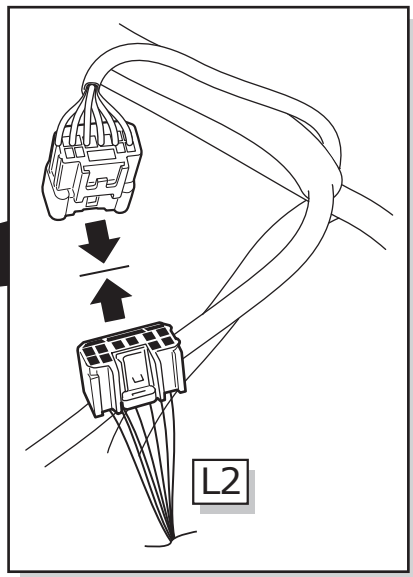


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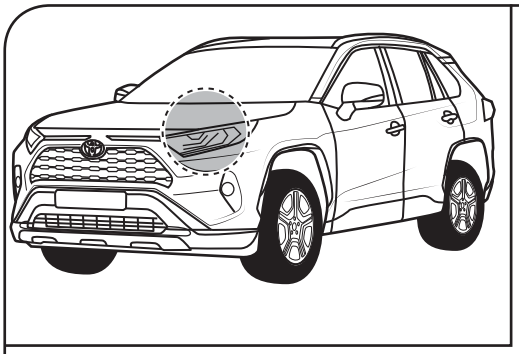
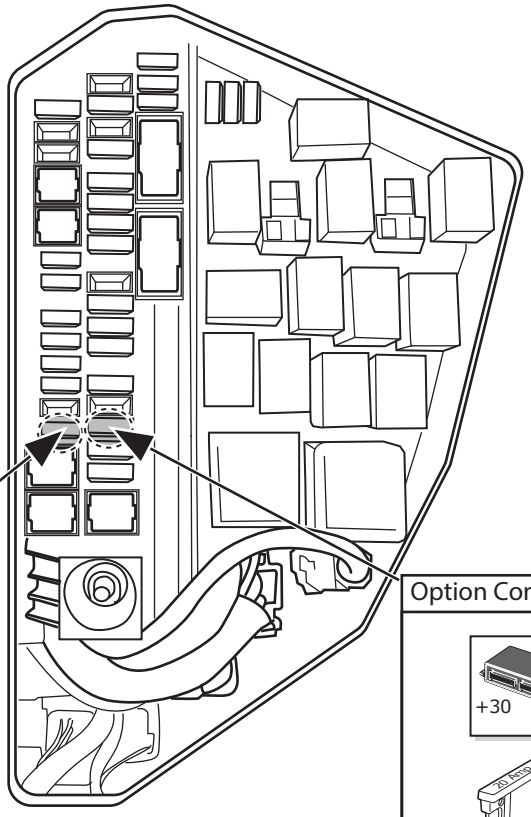




**Option Convential: Towing**

+30
PIN 9

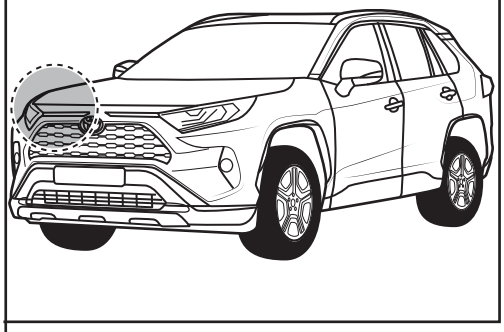
15 Amp.
LowProf mini

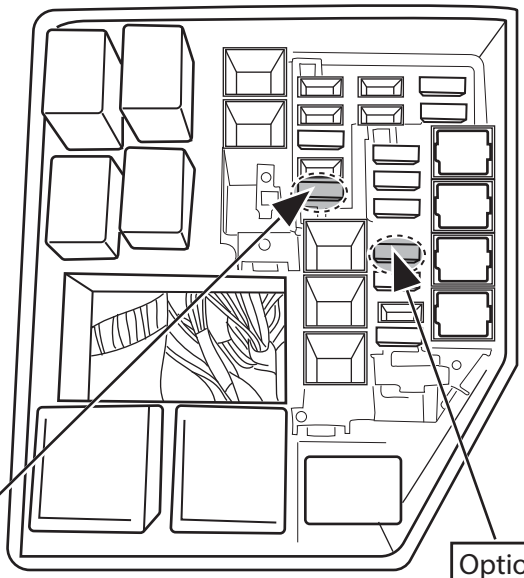
**Option Convential: Towing-B**

+30
12V

20 Amp.
LowProf mini

**16**





**Option Hybrid: Towing-B**

+30
12V

20 Amp.
LowProf mini

**Option Hybrid: Towing**
**Option plug in Hybrid: Towing**

+30
PIN 9

15 Amp.
LowProf mini

**17**



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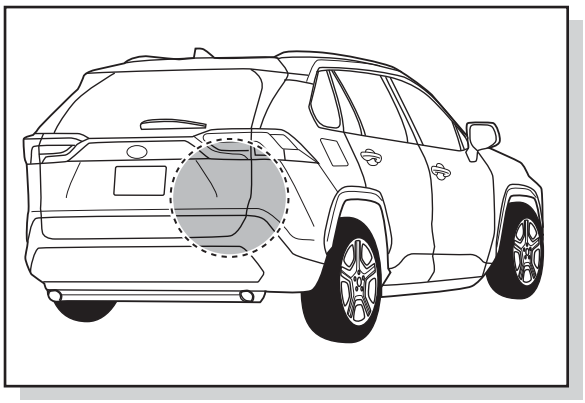

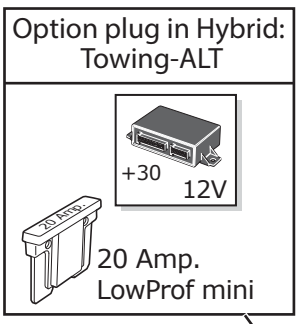


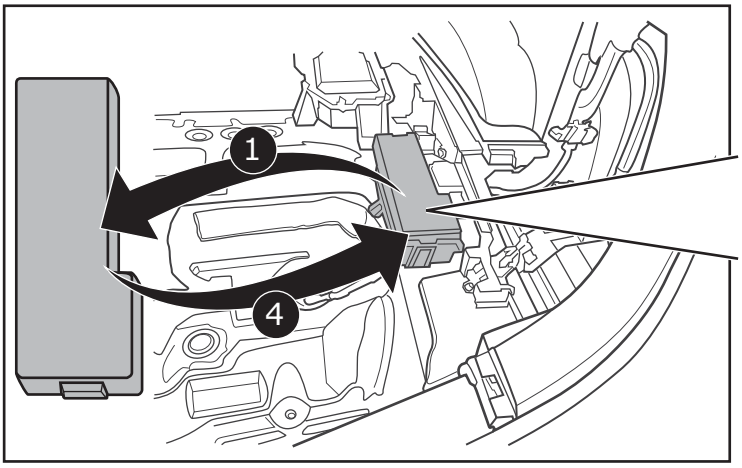


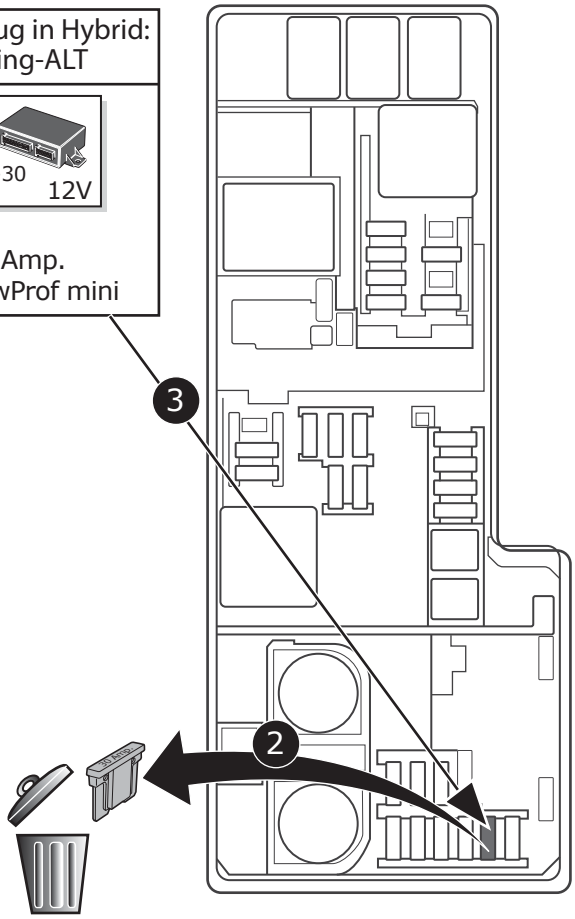


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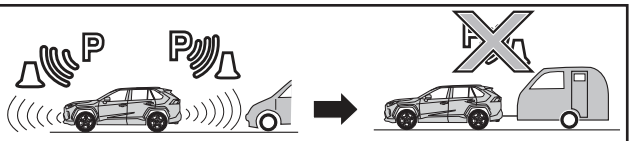
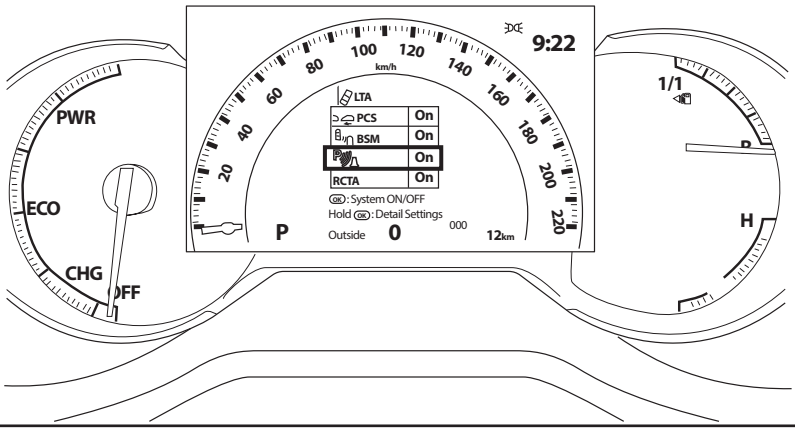
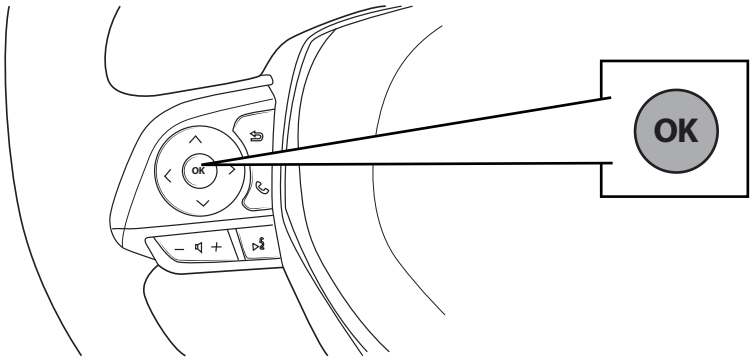
**OPTION 1**

# FOR OE PDC

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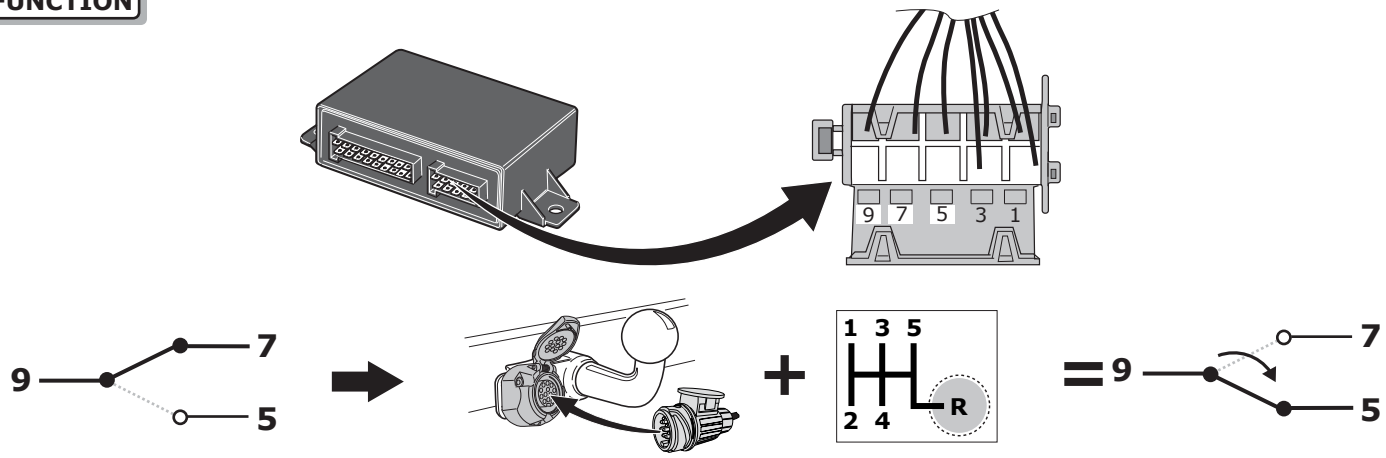
**OPTION 2**

# AUTO PARK-SENSOR SWITCH-OFF FUNCTION WITH THE 5D033 ECU

## FUNCTION




## INFO

Locate the **PDC** (Parking Sensor) Module in the Vehicle.

**OPTION 1** When the PDC-system has no specific **MUTE** wire: Locate and cut the wire at **ONE** of the locations A-G and connect to the **ECS Towbar Wiring Kit** as shown in Option 1. Always check if cutting the wire at the selected location does not create any errors in the PDC-system or the vehicle, if so, then select another location. In this case the cut wire is connected and the system operates normally. When the trailer is connected. This wire becomes disconnected by the Trailer Module. If the same module also controls the Front Sensors then use only locations F or G to prevent the front sensors switching off.

**OPTION 2** When the PDC-system has a specific **MUTE** wire: Check in the manual of the PDC-sysctem which input the PDC module requires to switch off the system (+12v **or** Earth trigger). Then connect the Trigger wire of the PDC system to pin 9 of the ECS connector, and connect the required feed (+12v **or** Earth) to pin 7 and 5.

**Be careful** as connecting the wrong feed can cause damage to the PDC-system.

Always check Before and After installation the PDC System is working correctly, and where possible any error codes



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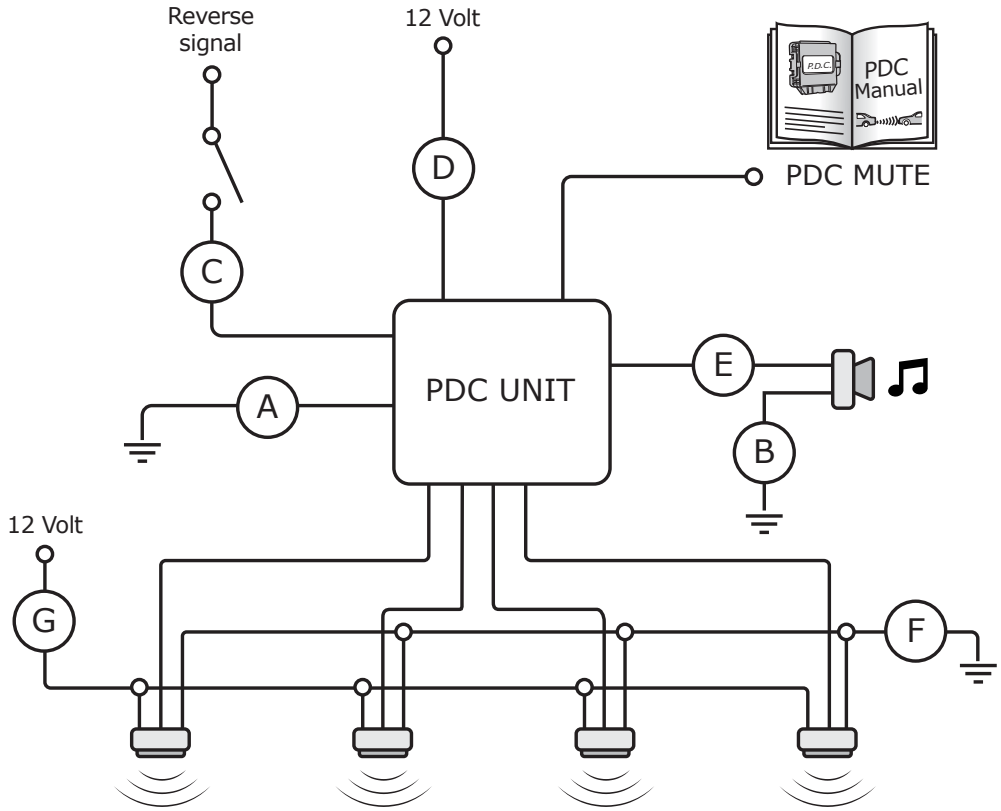
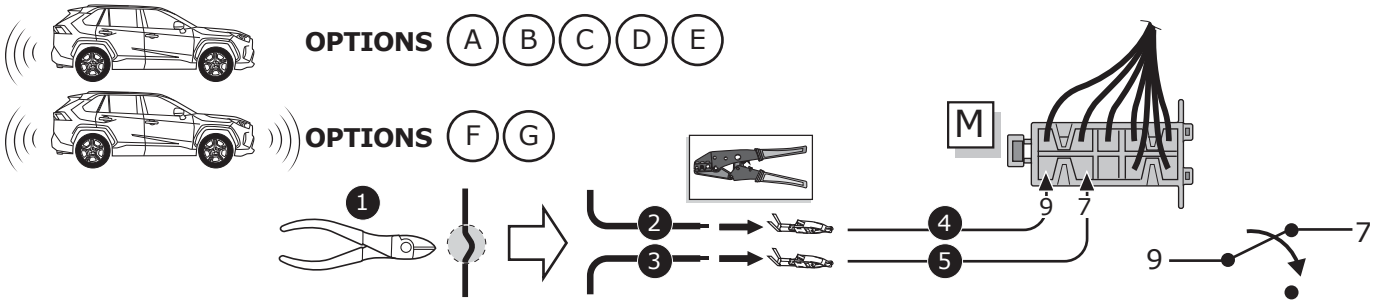
**OPTION 2**

# AUTO PARK-SENSOR SWITCH-OFF FUNCTION WITH THE 5D033 ECU

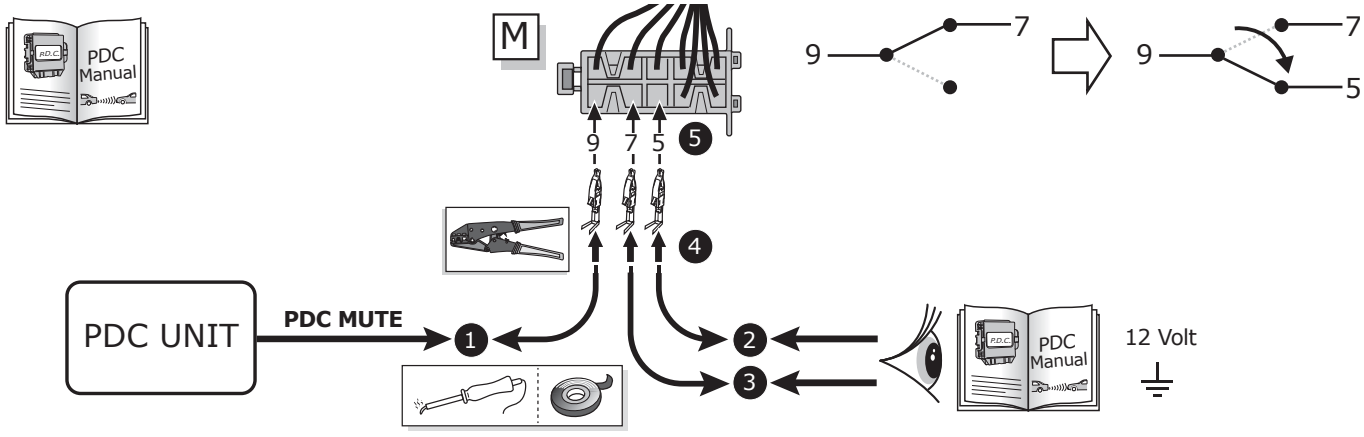
**AFTER MARKET / NON-OE PARKSENSOR-SYSTEM**




## OPTION 1, NO PDC MUTE




## OPTION 2, PDC MUTE



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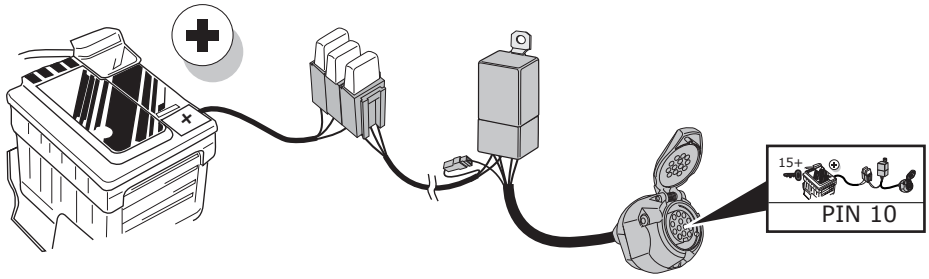
**Optional**




**Extension kit**
**UV-006-ZZ2**

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towbar wiring kits for the uk

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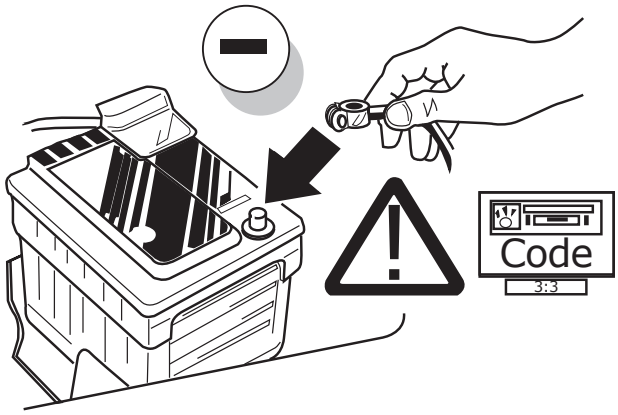


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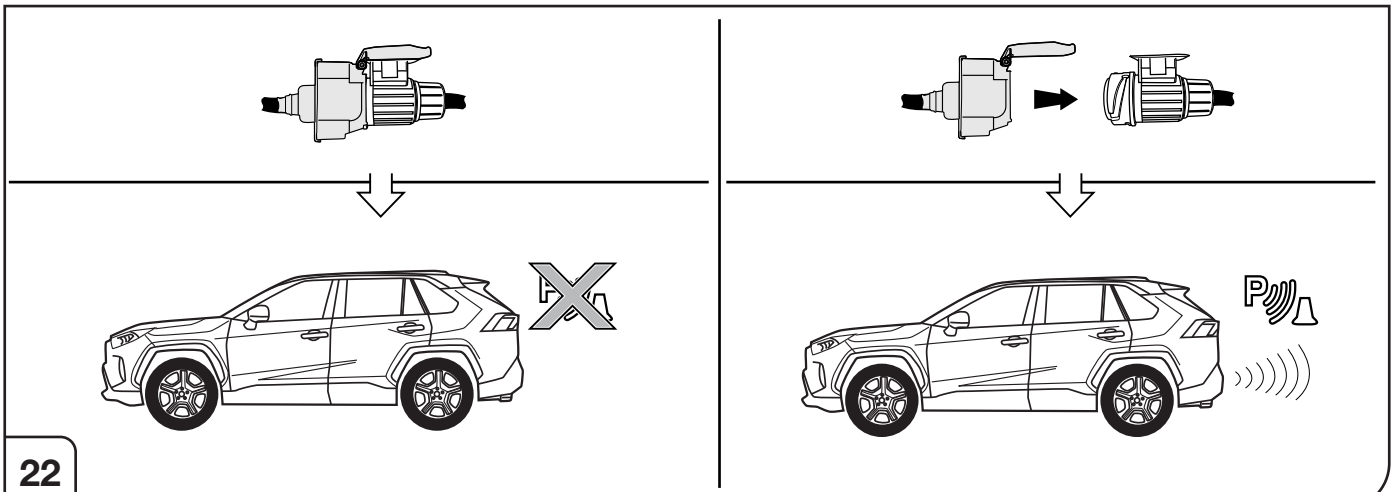
**Please note:**
Due to the technical system of the vehicle, some assistance systems are not or only partially available whilst a trailer is attached.
Assistance systems with emergency brake function (AEB) may need to be deactivated whilst a trailer is attached.

**Automatic or remote-controlled parking assistance systems must not be used whilst a trailer is attached!**
**For more information please refer to the vehicles owner's manual.**

INFO



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## Optional

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Trailer Simulator for 7- and 13-pin Sockets

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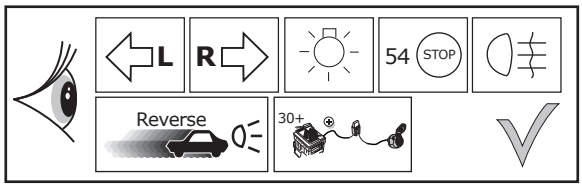
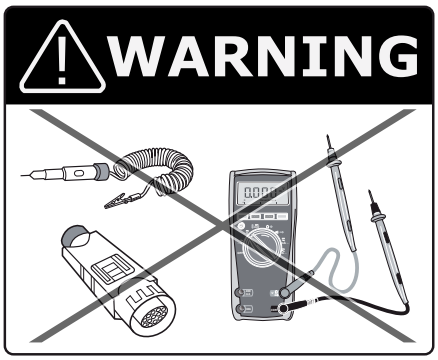
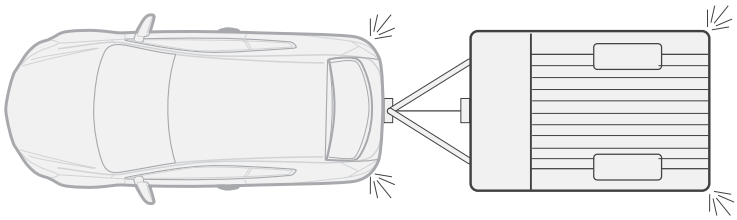
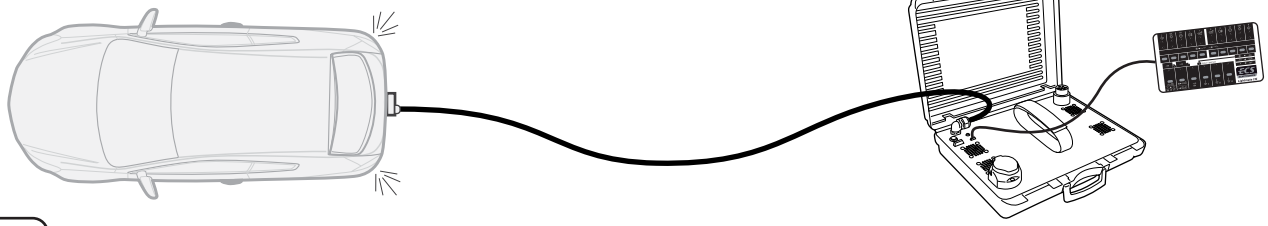
## Functional test





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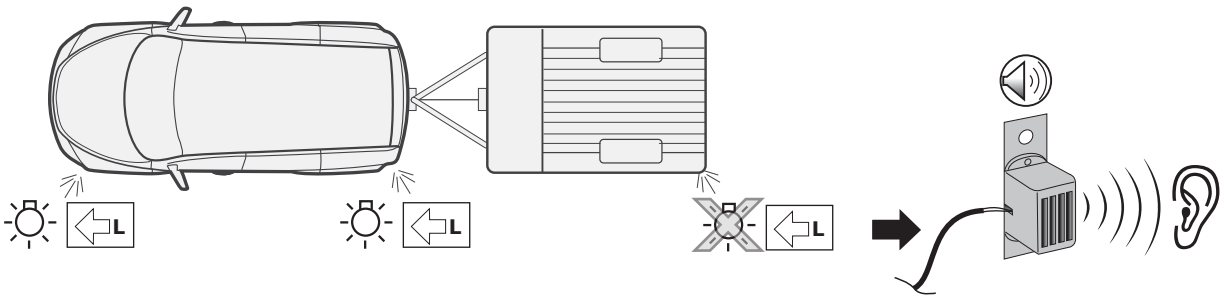


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**Optional**

## Adapter socket

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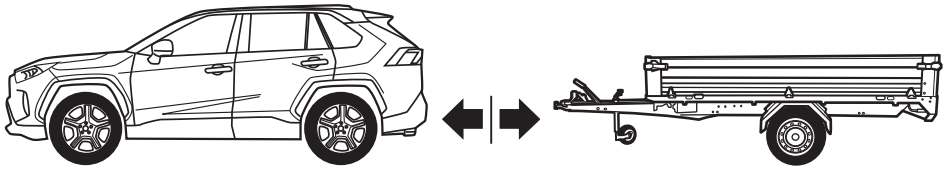

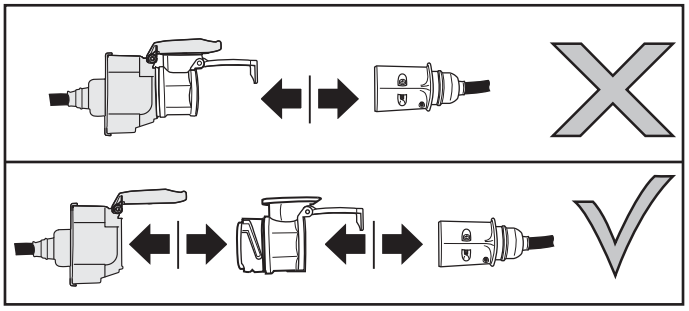

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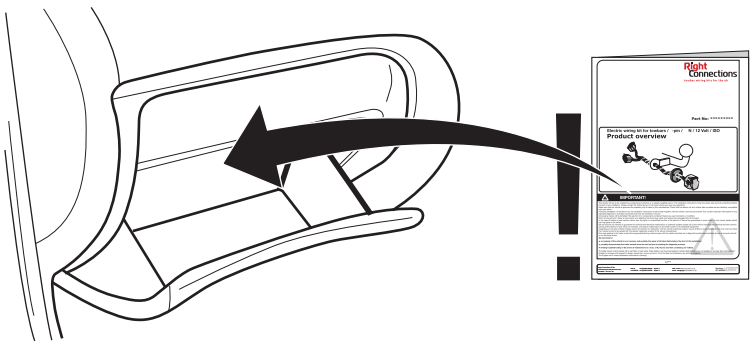

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