

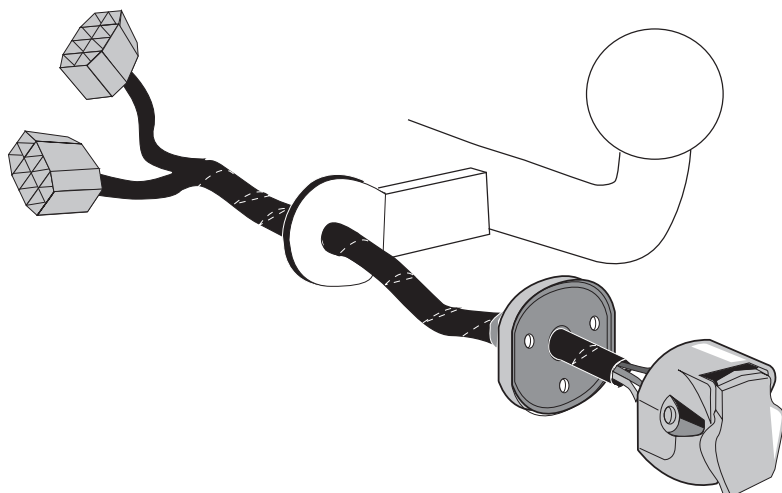
SSANGYONG/KGM

Korando C300 09/2019 >>
Korando e-Motion 01/2022 >>
Tivoli X150 09/2019 >>

Tivoli Grand 08/2021 >>
Torres J100 08/2023 >>
Torres EVX 02/2024 >>
Actyon (J120) 01/2025 >>

Part No: SY-022-13U

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.

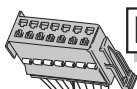
All of the data and illustrations may not be an exact representation but the text contained in this instruction must be observed!



B



M

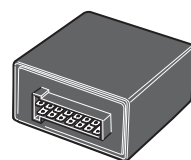


U1



L

T



M



B

C



5x

G

A

*Optional



Page 27

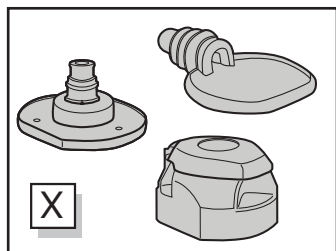
* Optional:
Additional Power Supply



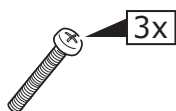
UV-005-ZZU



SP-448-ZZU



X



3x



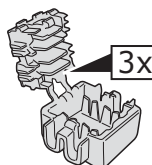
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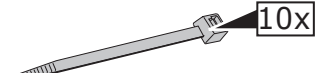
3x



2x



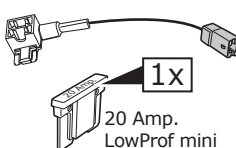
3x



10x

Tivoli Only!

U3



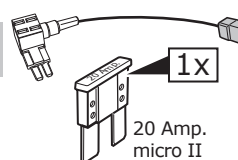
U2

1x

20 Amp.
LowProf mini

Korando & Torres & Actyon Only!

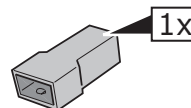
U3



U2

1x

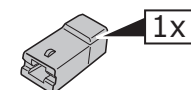
20 Amp.
micro II



1x



1x



1x

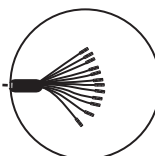
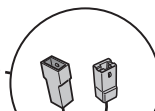
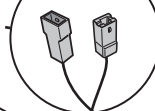
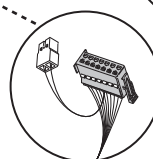
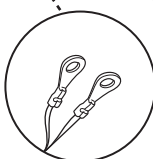
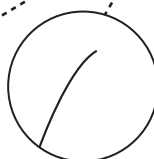
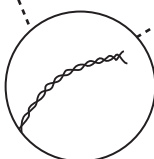
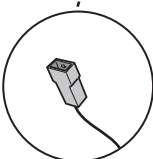


1x













27-26,30,32,34,36-38















8-16

17-26, 29,31,33,35

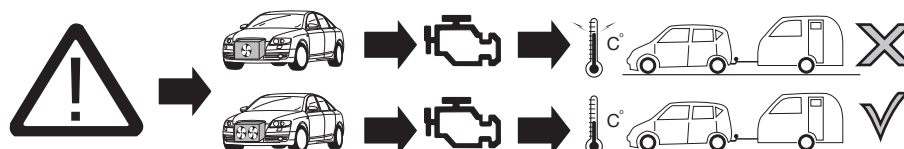
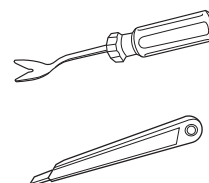
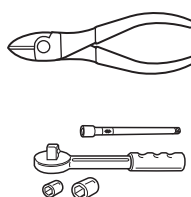
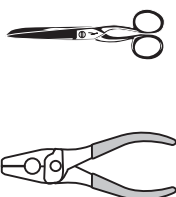
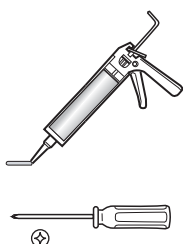


SYMBOL EXPLANATION

	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

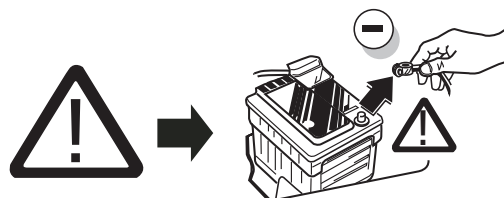
 	Cigarette lighter / accessory socket
	Loudspeaker / buzzer
	Park Distance Control
	Switch / source of function
	Connect together
	Disconnect
	Look at / See further information
	Look carefully at selected area
	Present / Occupied / OK
	Not present / Not occupied / Not OK
	Acoustic indication
	Attention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

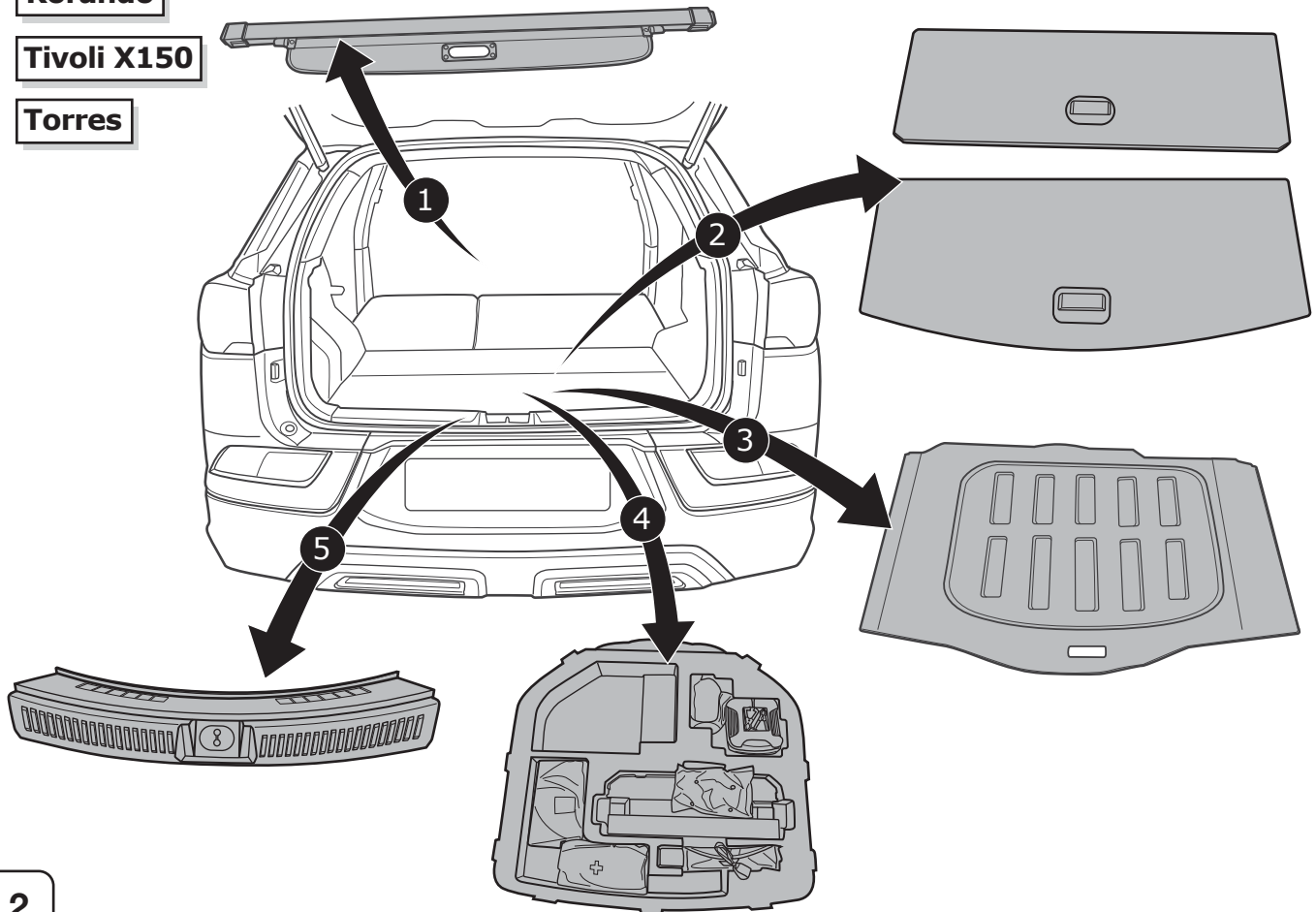
Please pay attention to the manufacturer's instructions when disconnecting and reconnecting the vehicle's battery!

1

Korando

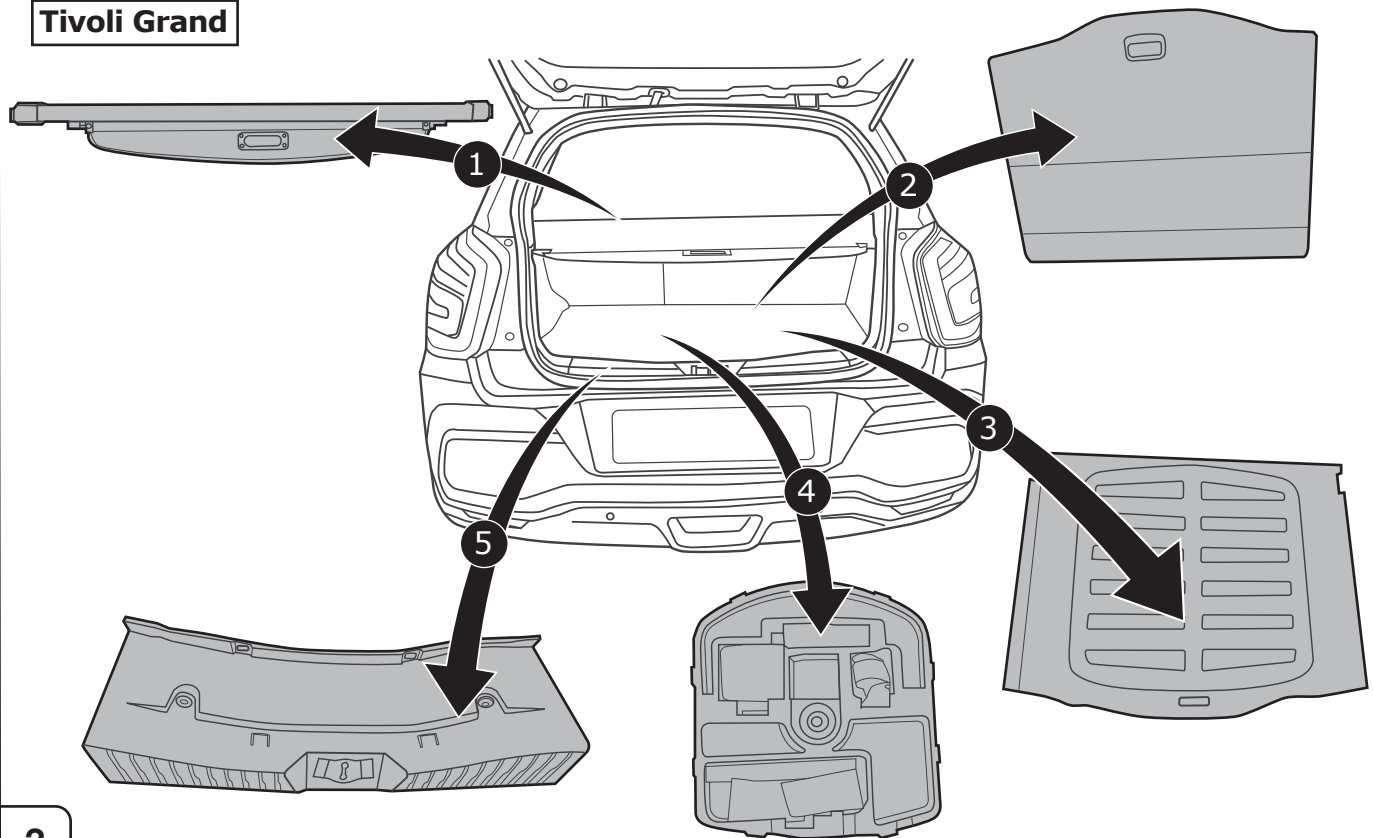
Tivoli X150

Torres



2

Tivoli Grand

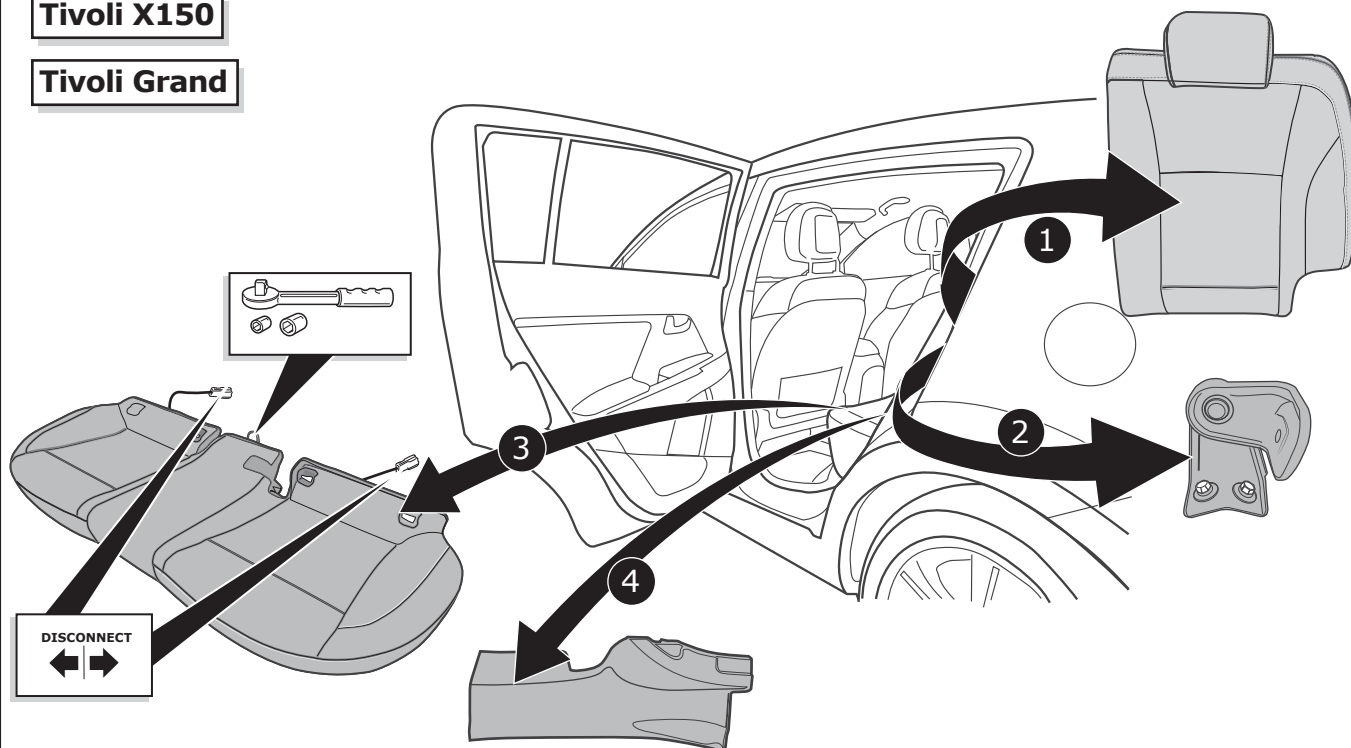


3

Korando

Tivoli X150

Tivoli Grand

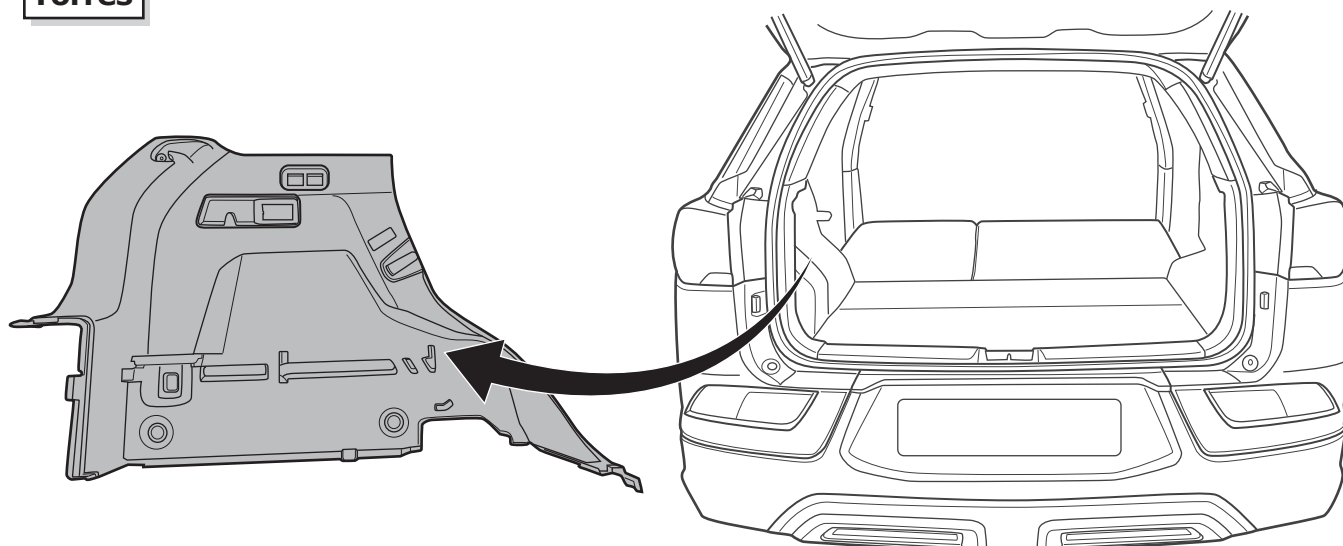


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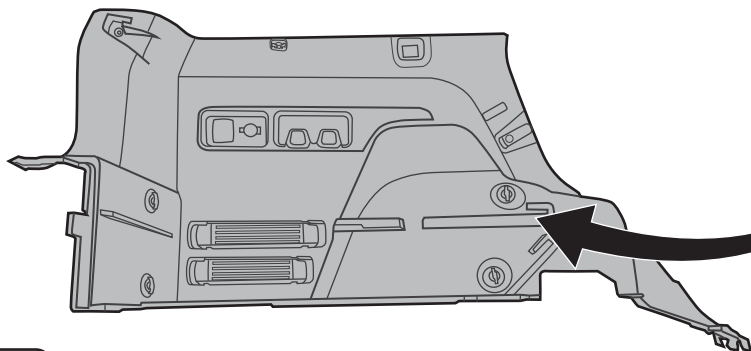
Tivoli X150

Torres



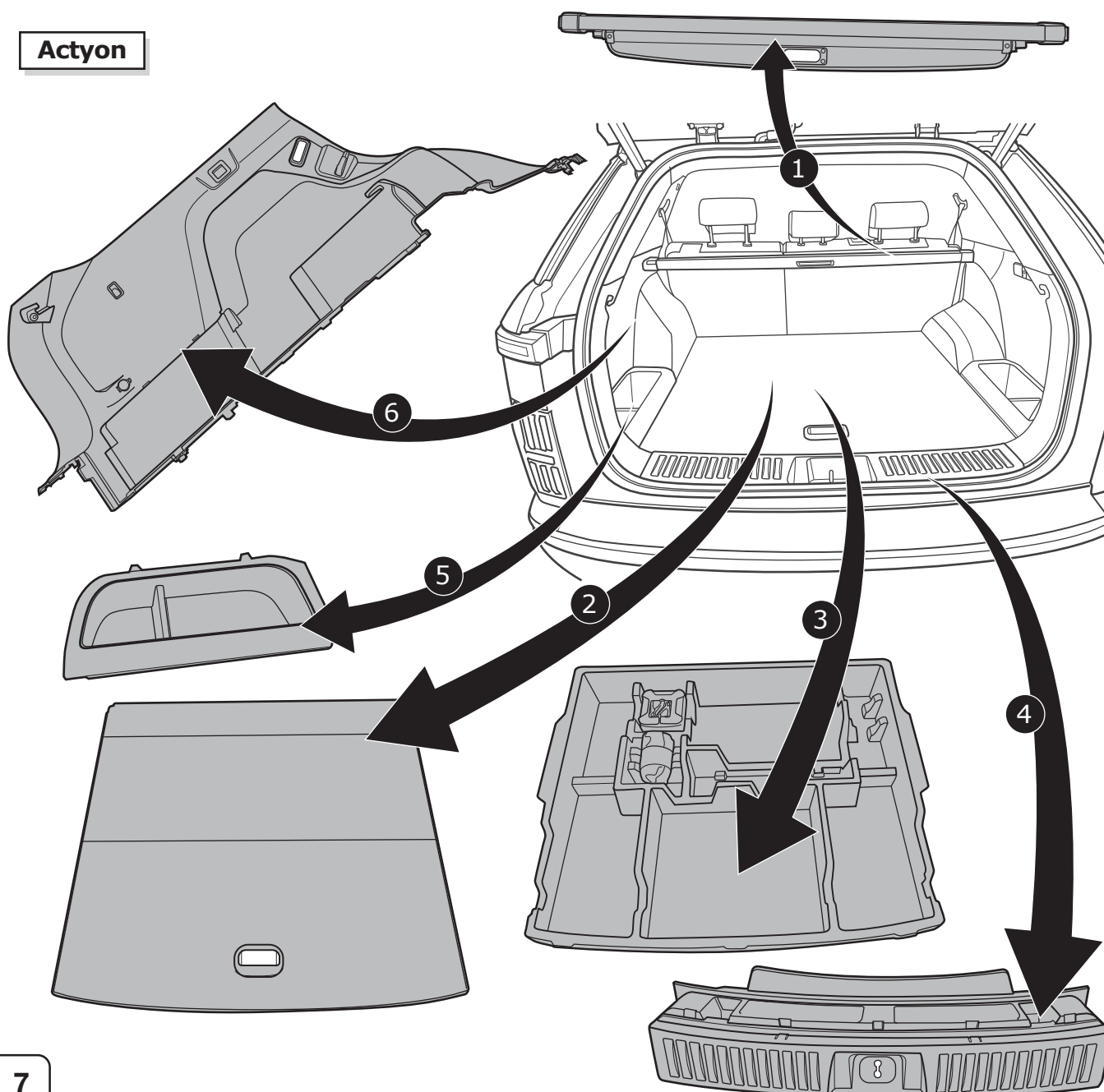
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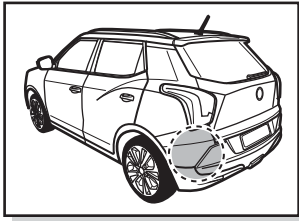


6

Actyon



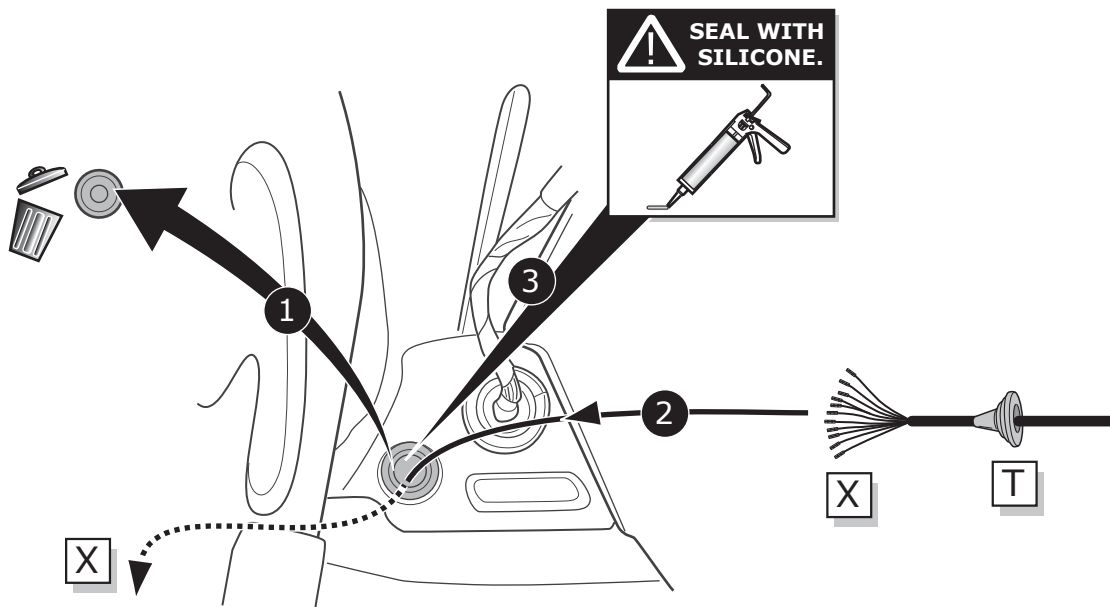
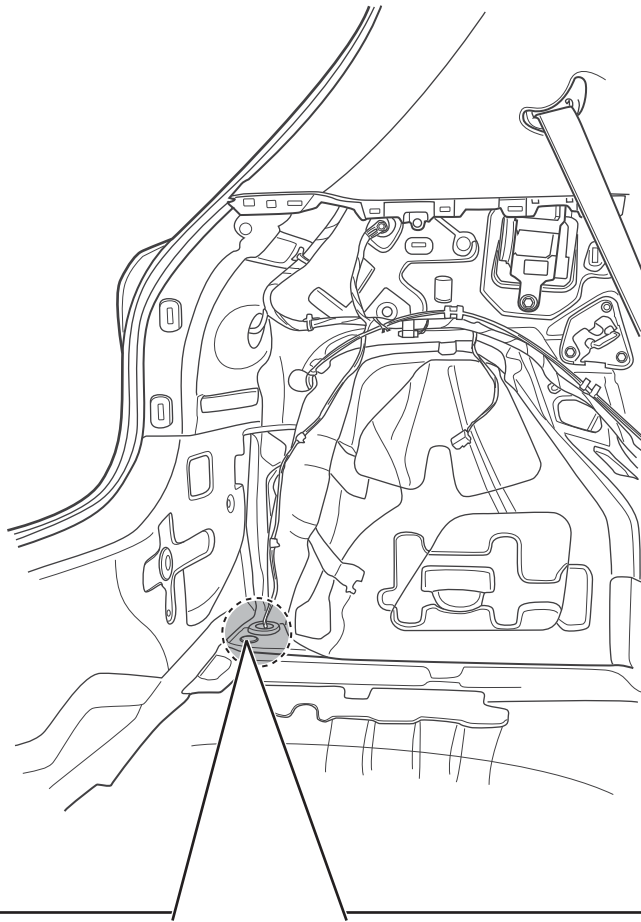
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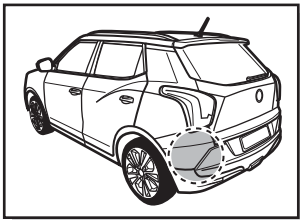


Korando

Tivoli X150

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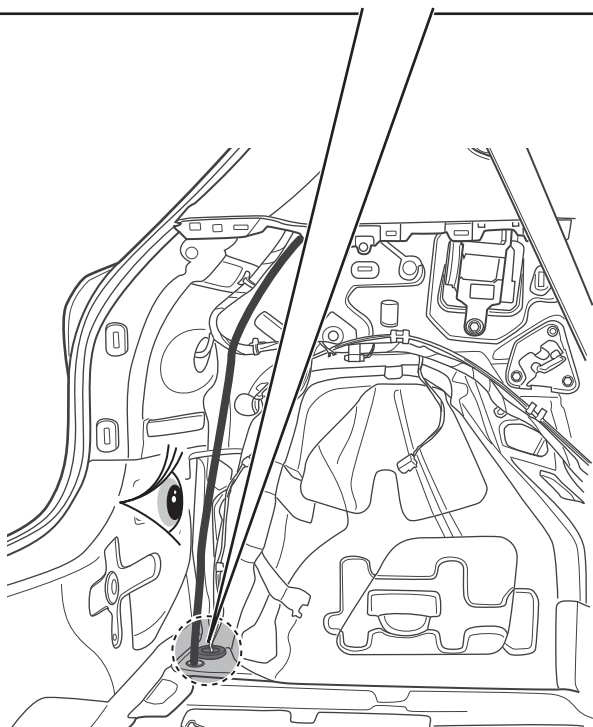
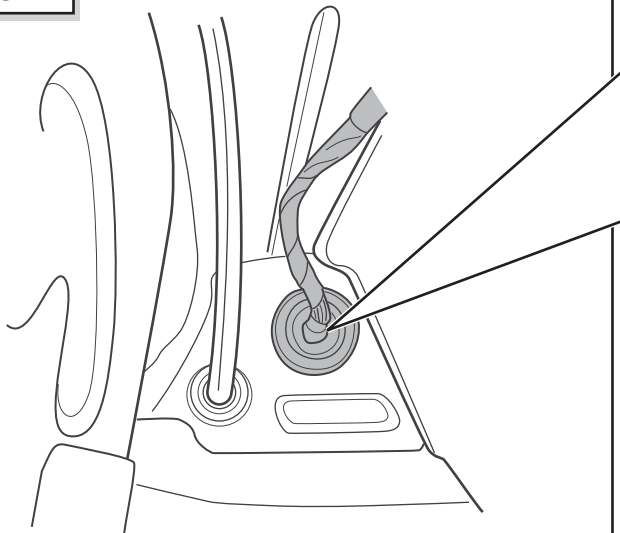




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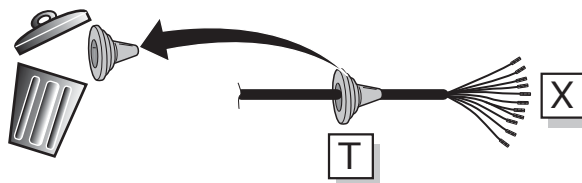
Tivoli X150

Option 2

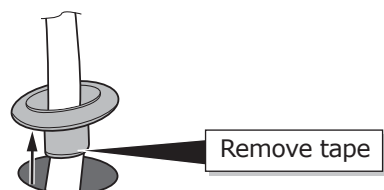


9

1



2



3

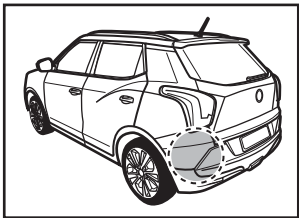


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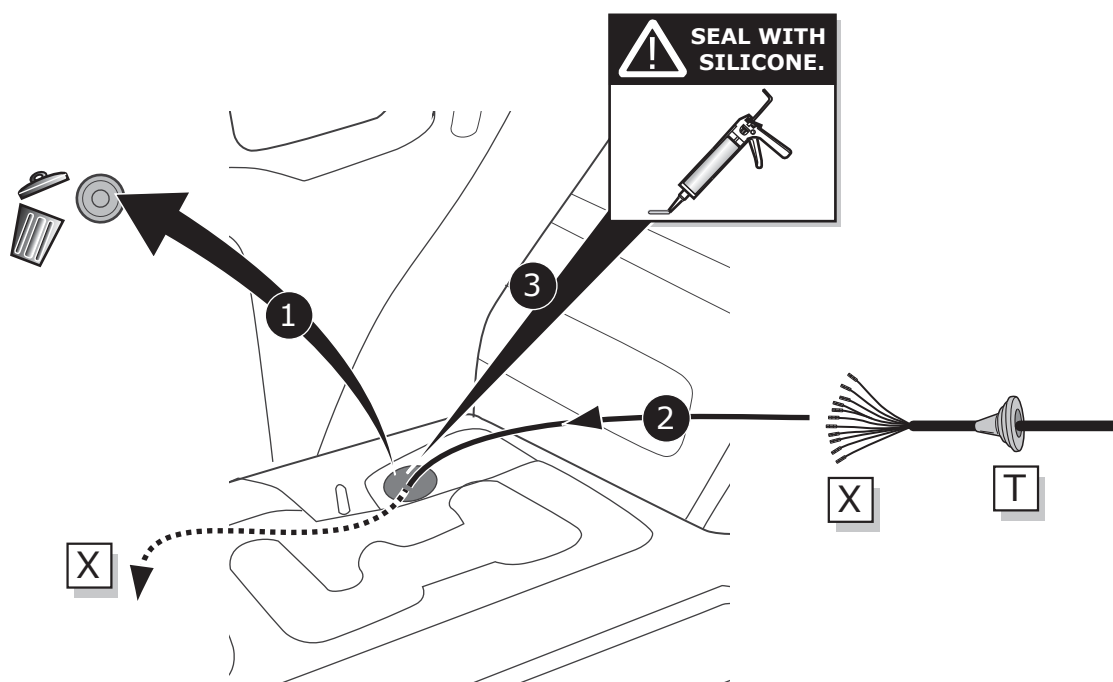
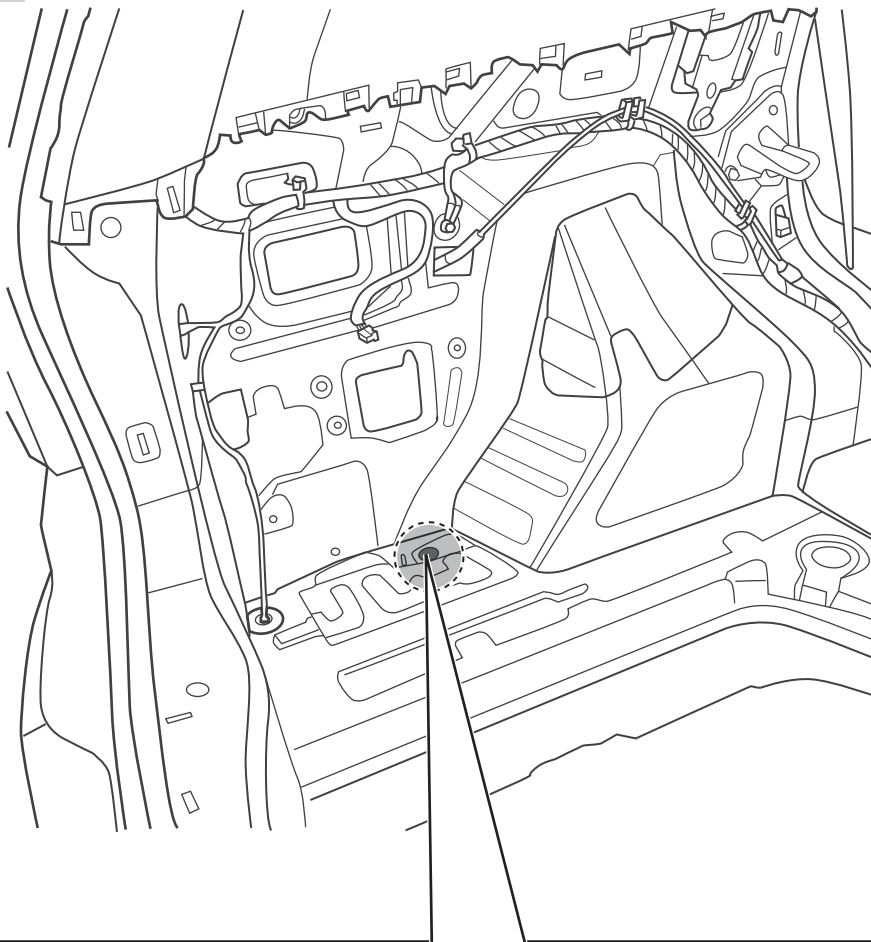


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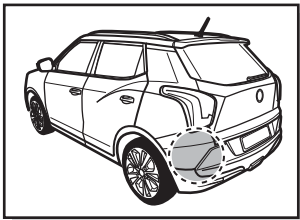
Torres

Actyon

Option 1



10

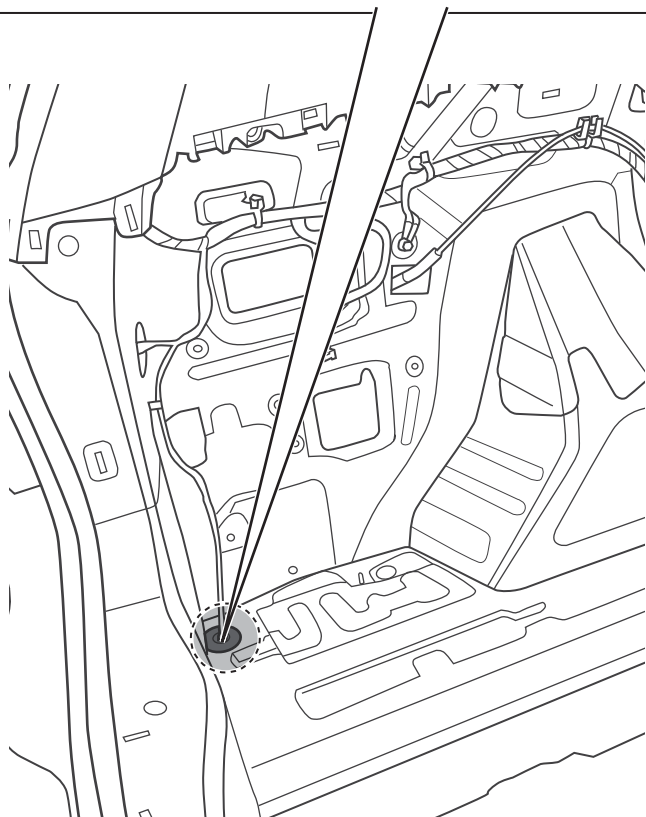
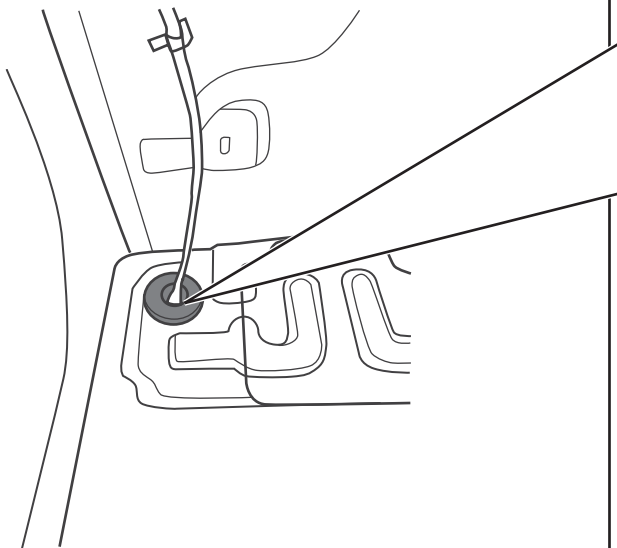


Tivoli Grand

Torres

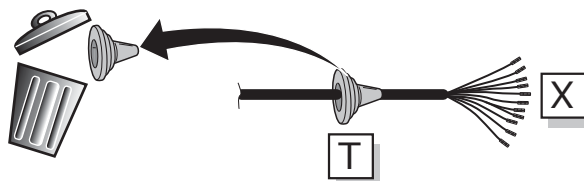
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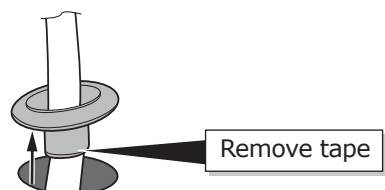


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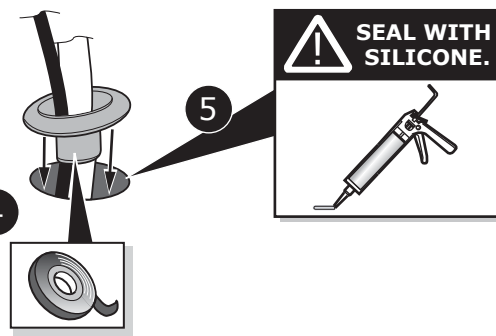
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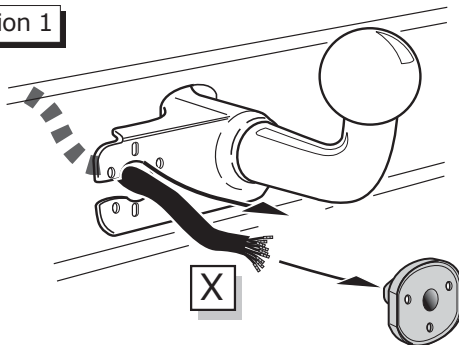
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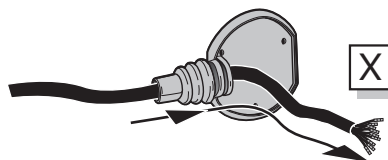


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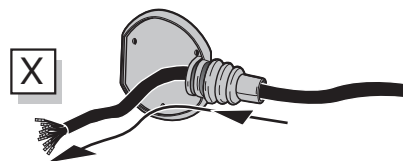


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Option 2



Option 3



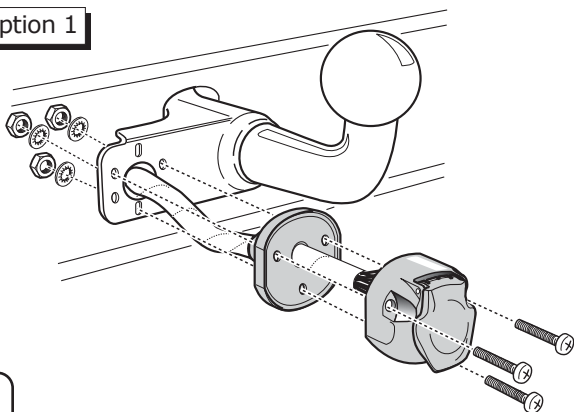
SOCKET CONNECTION



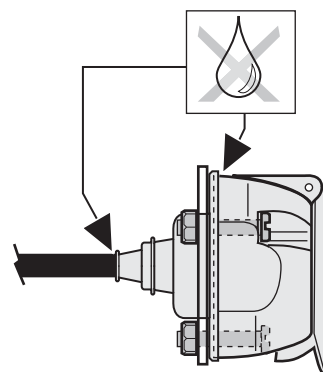
Page 31

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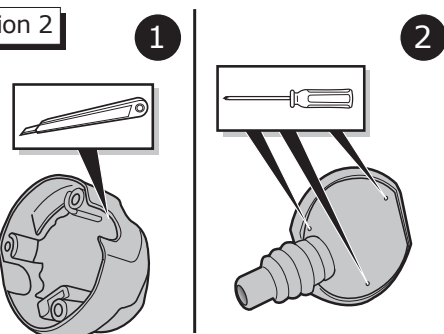
Option 1



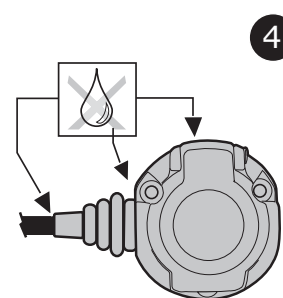
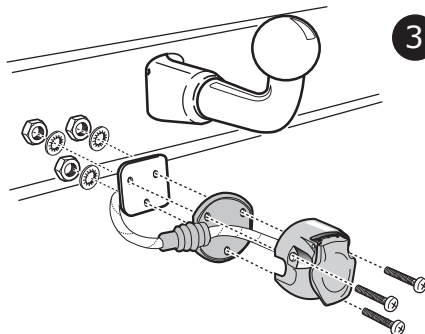
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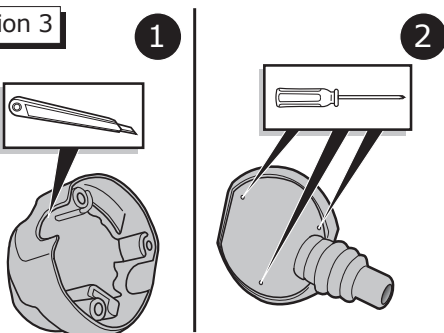
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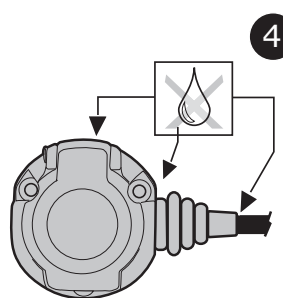
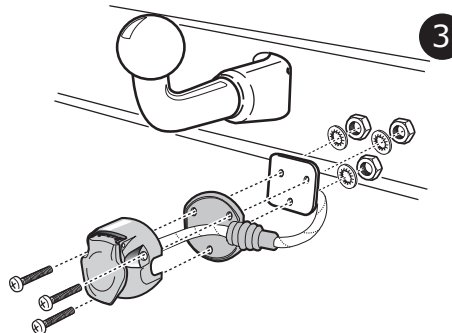
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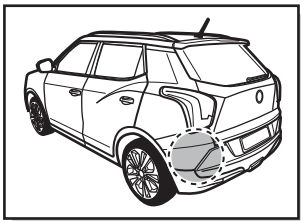


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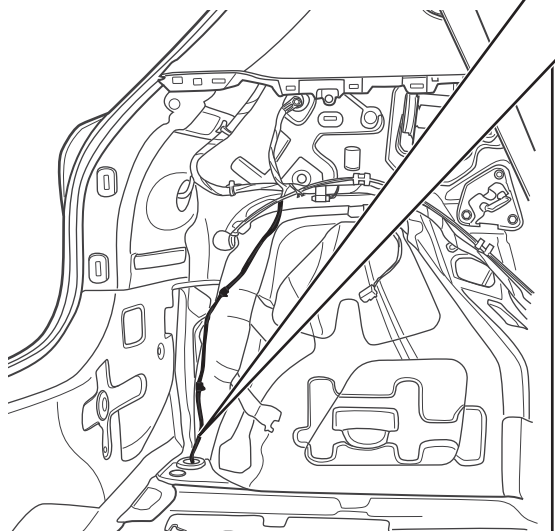
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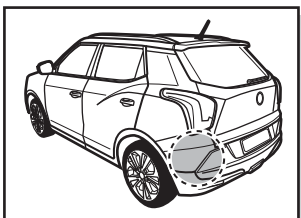
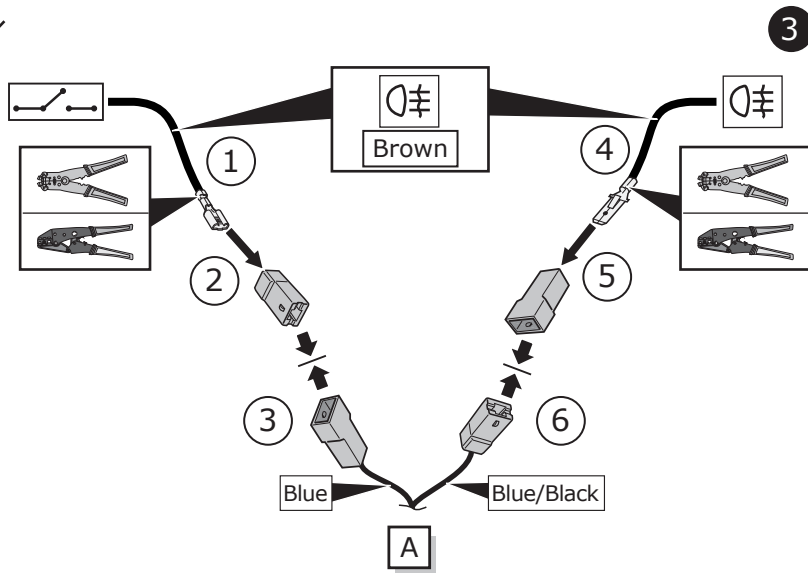
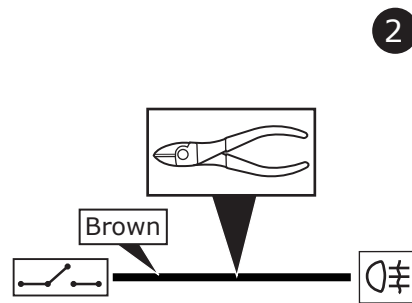
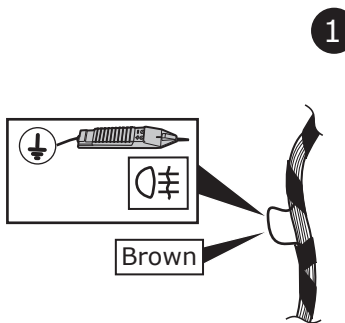


Korando

Tivoli X150



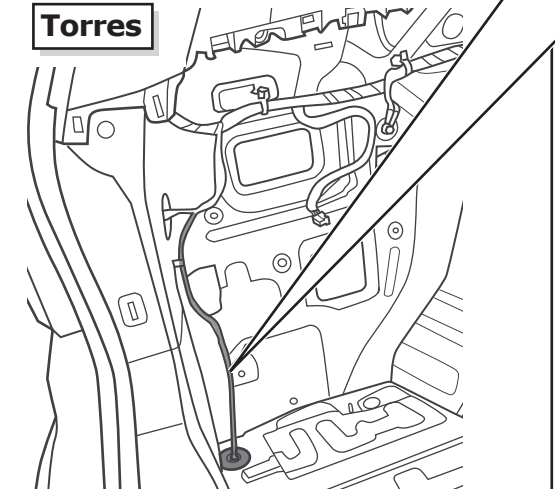
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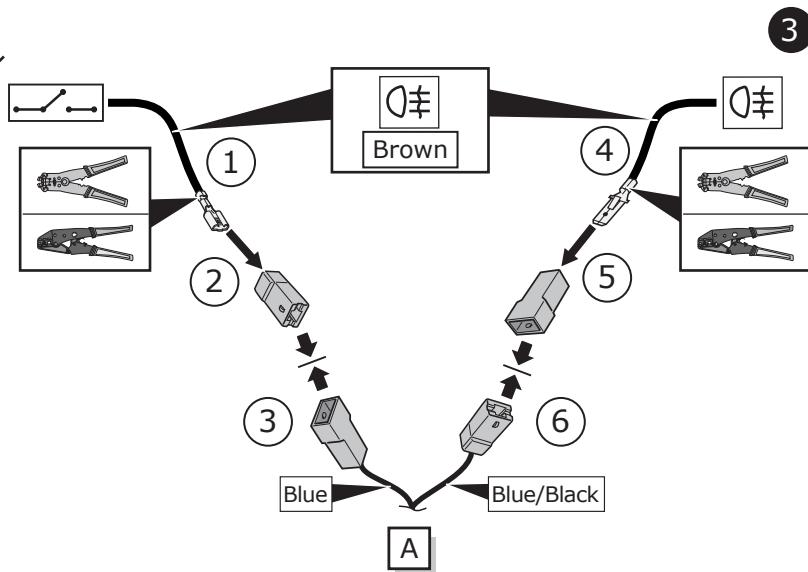
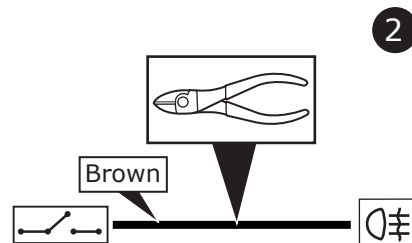
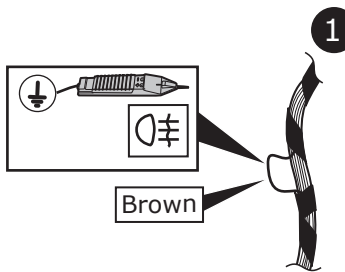
Tivoli Grand

Actyon

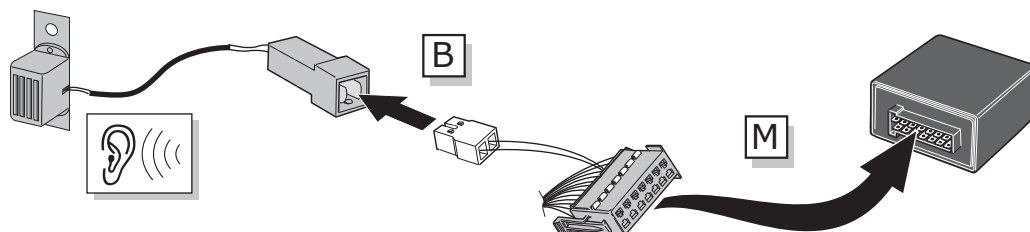
Torres



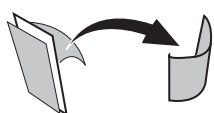
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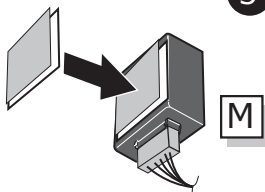
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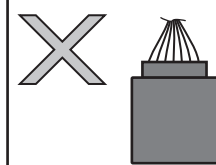
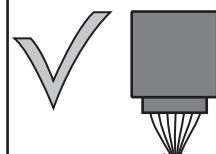
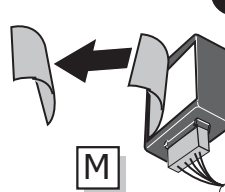
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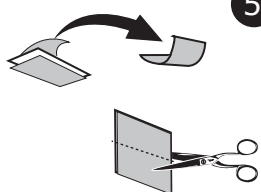
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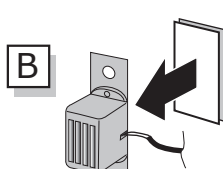
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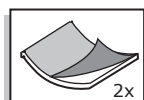
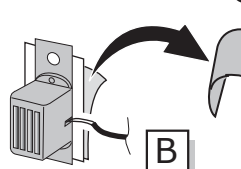
5



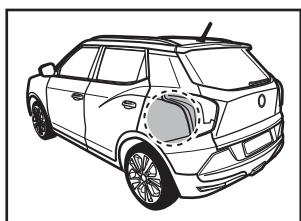
6



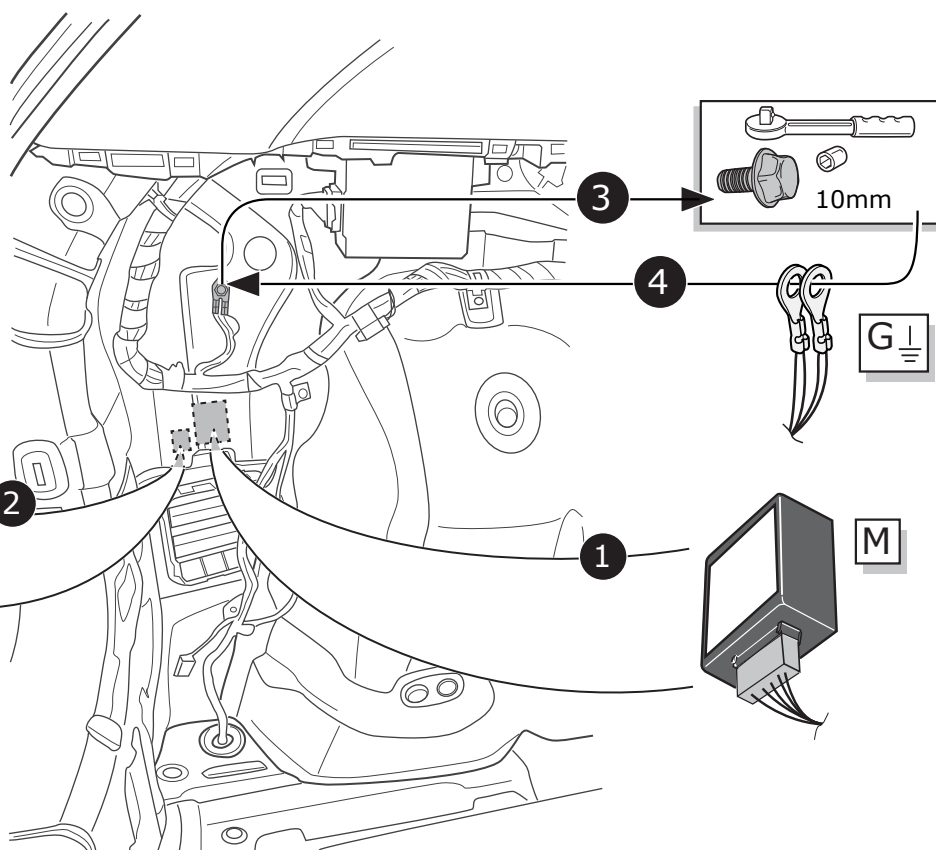
7



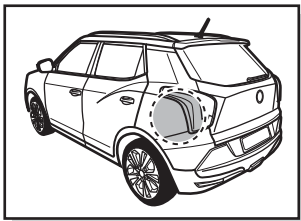
19



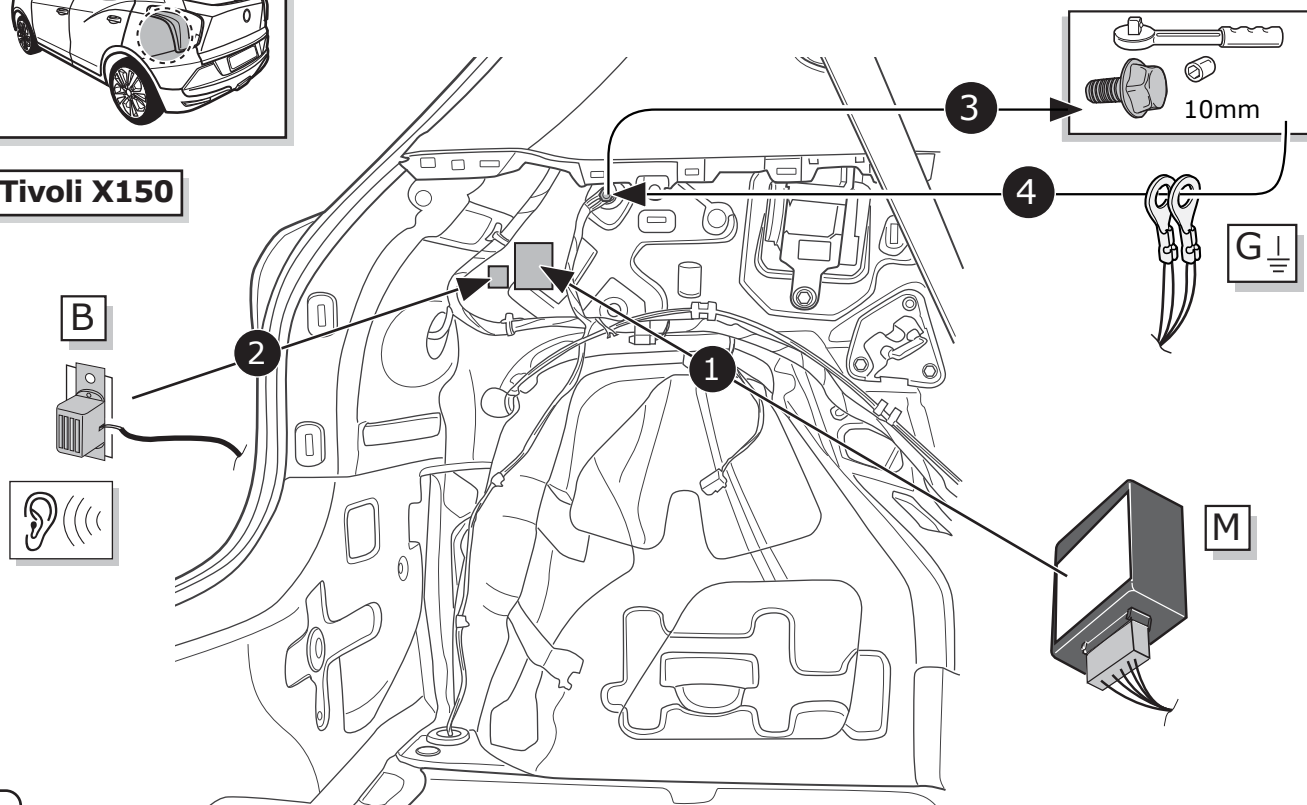
Korando



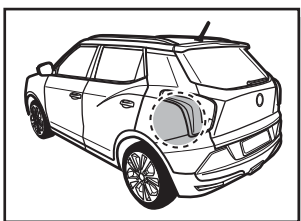
20



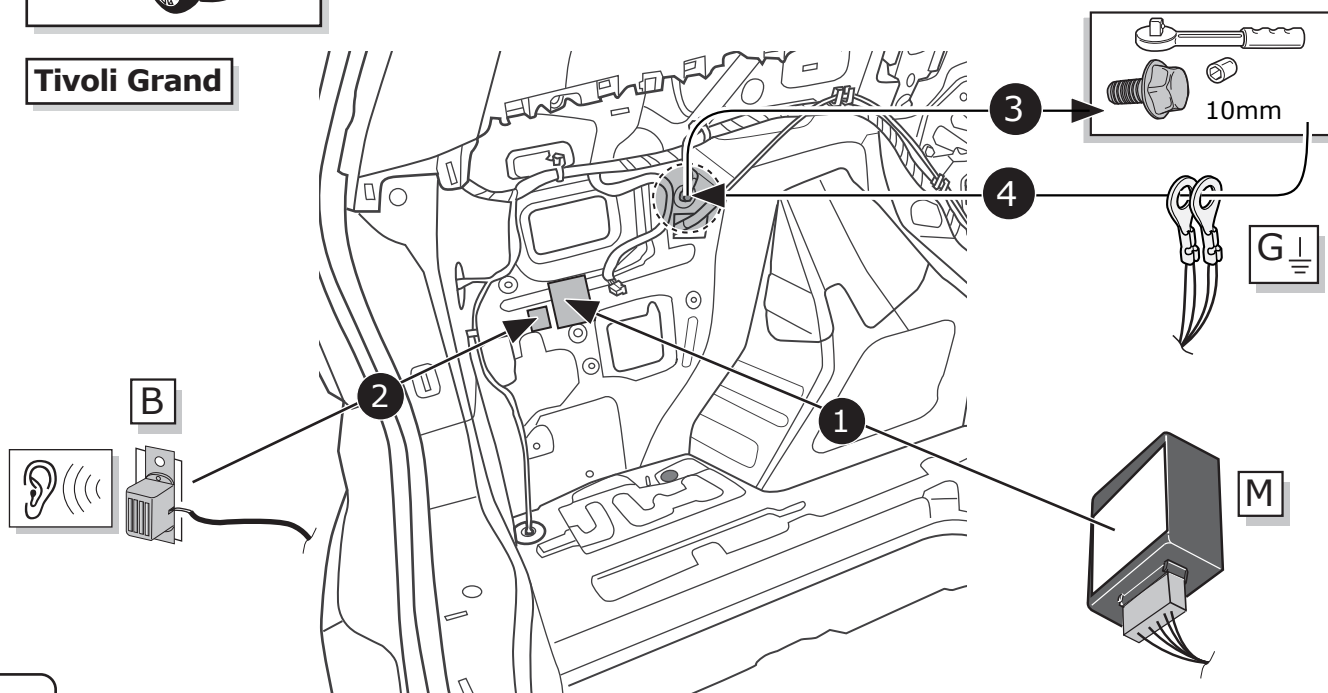
Tivoli X150



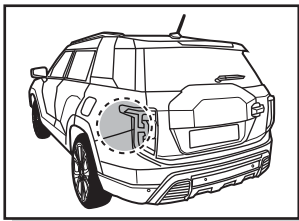
21



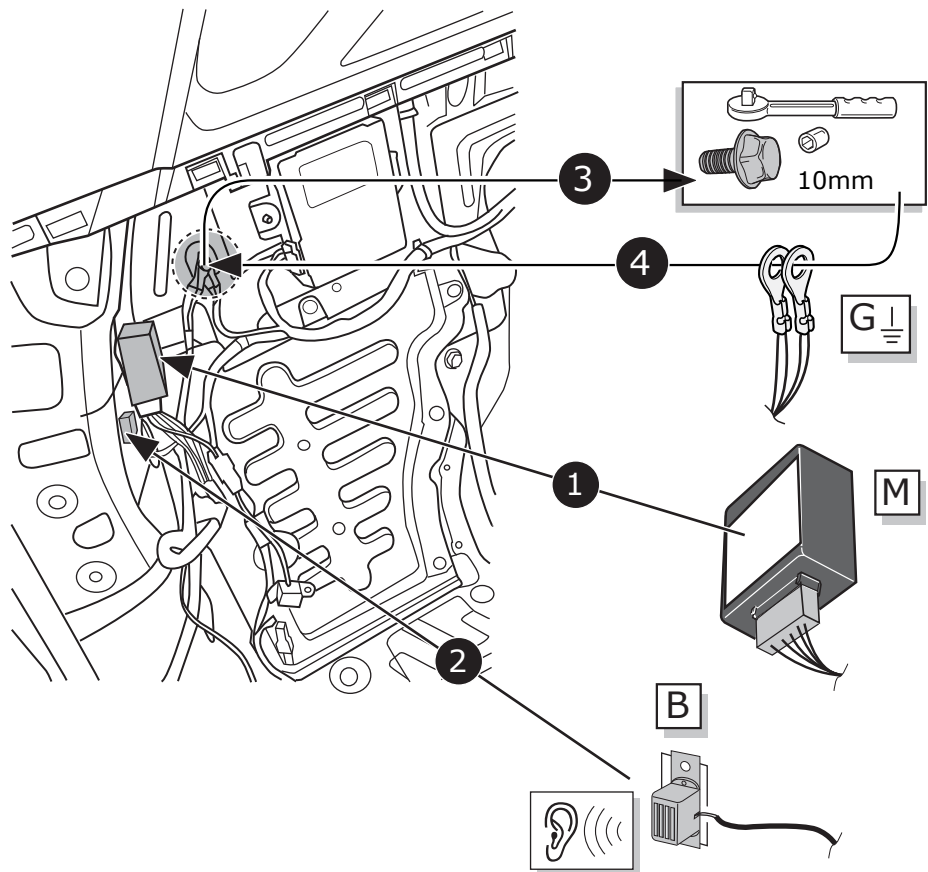
Tivoli Grand



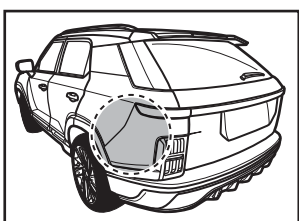
22



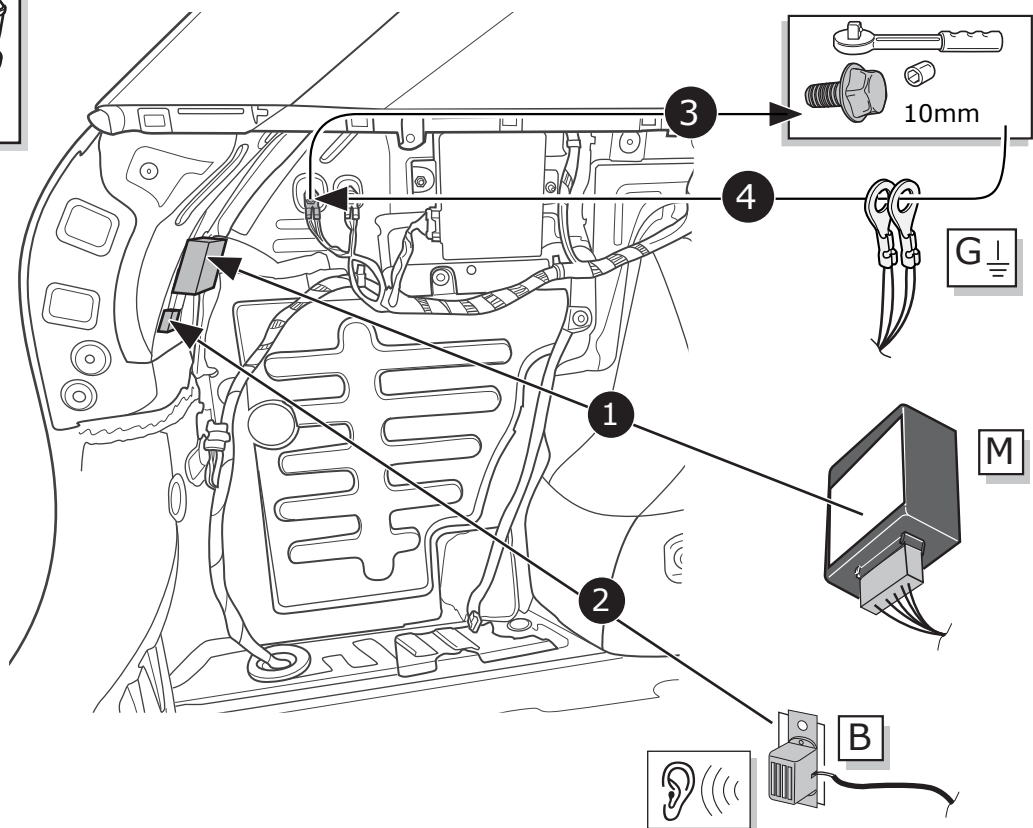
Torres



23



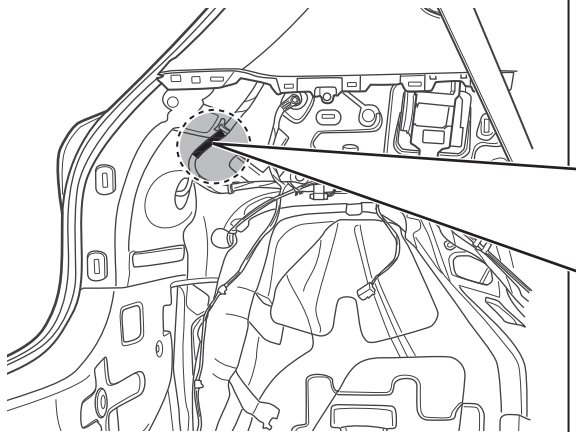
Actyon



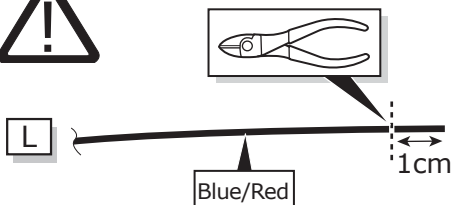
24

Korando

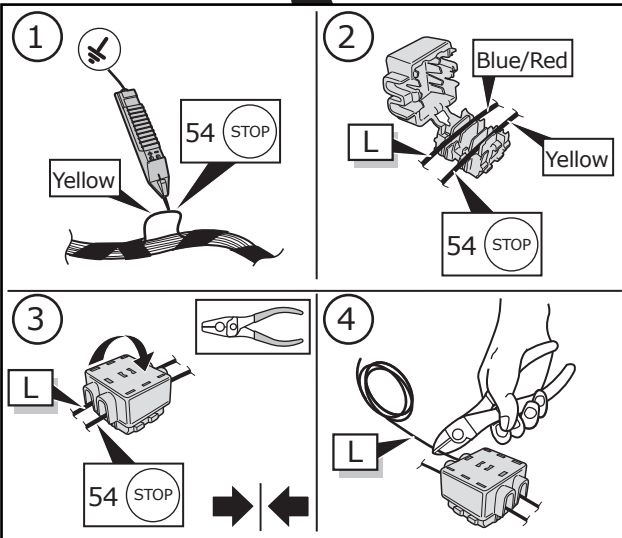
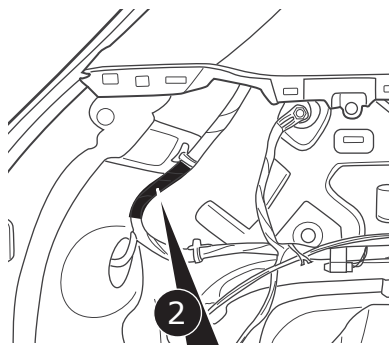
Tivoli X150



1



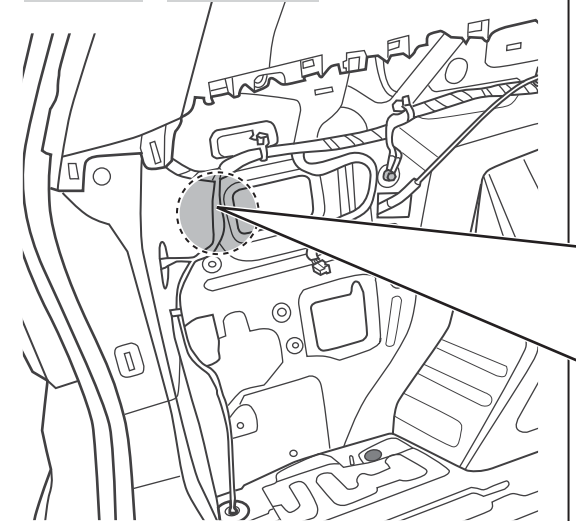
25



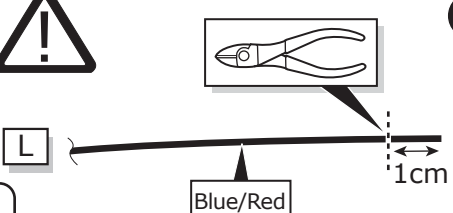
Tivoli Grand

Torres

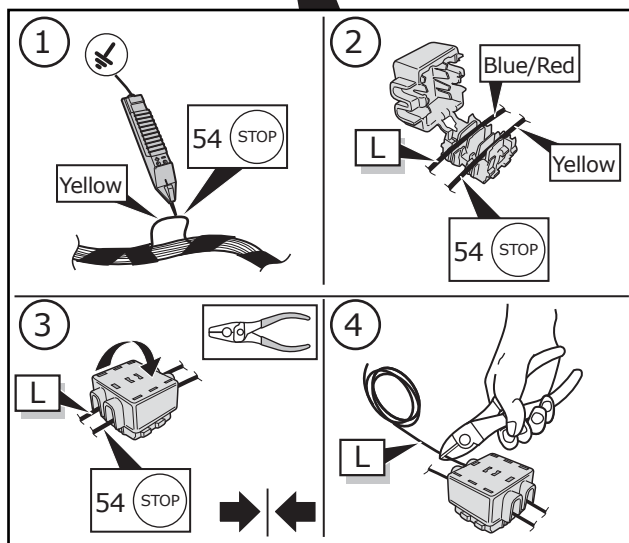
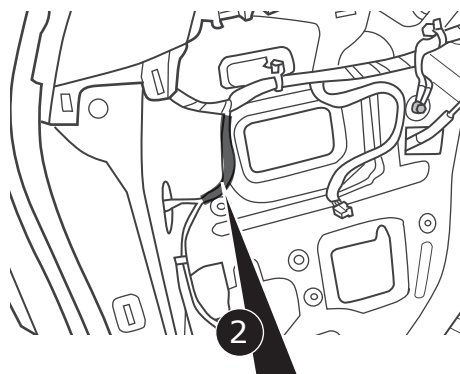
Actyon

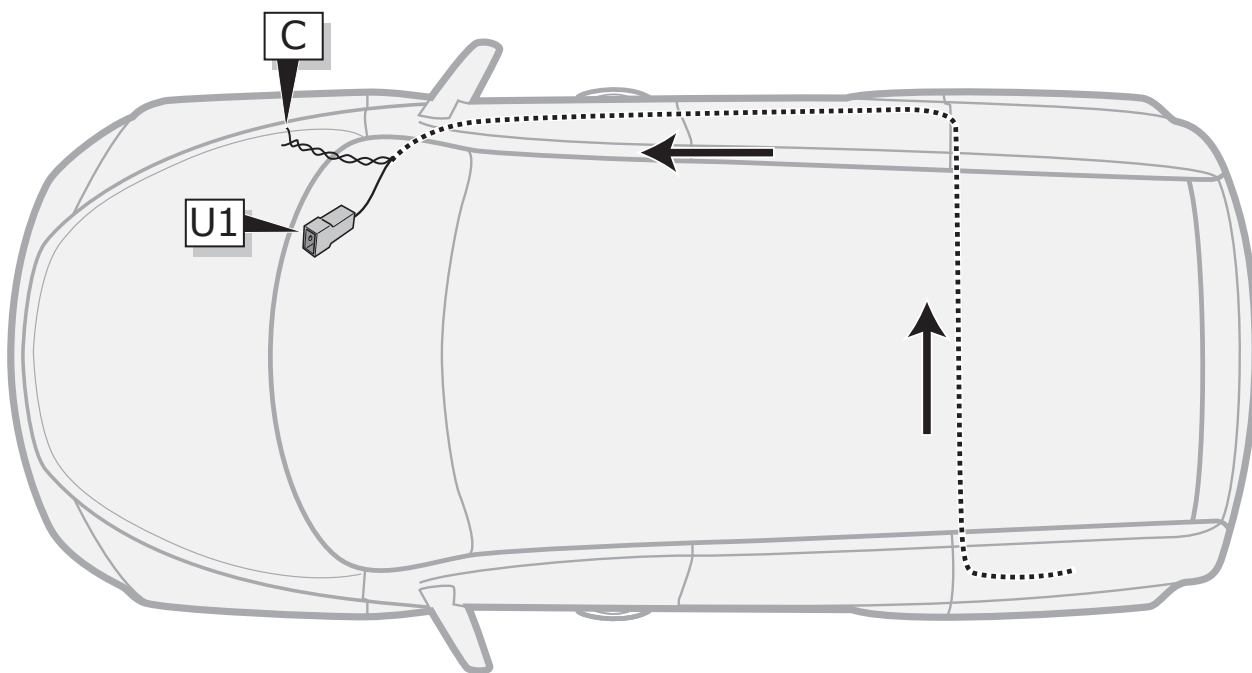


1

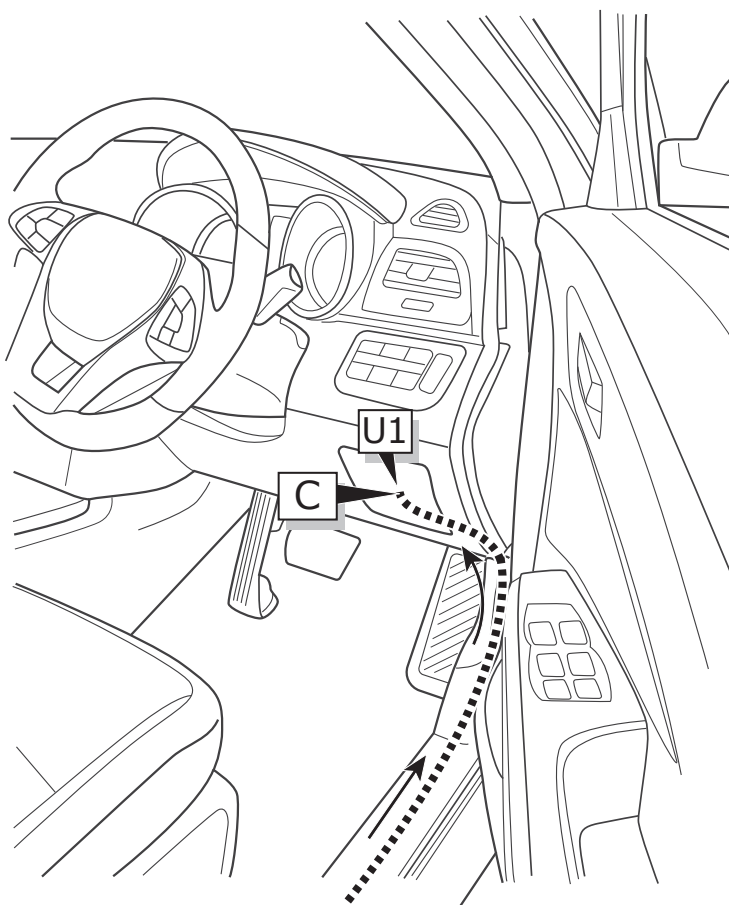


26





27

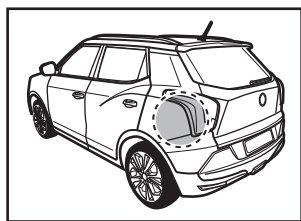
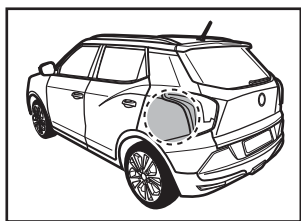
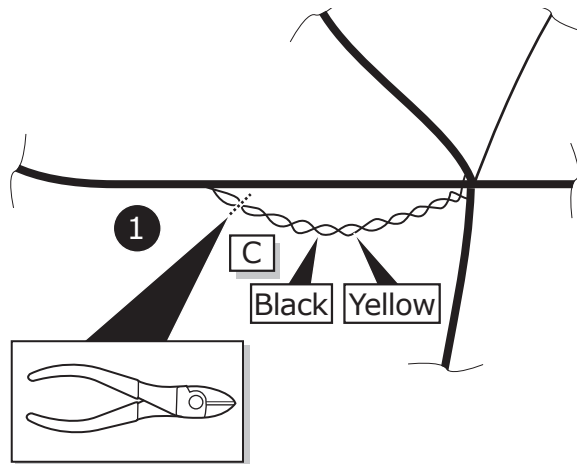
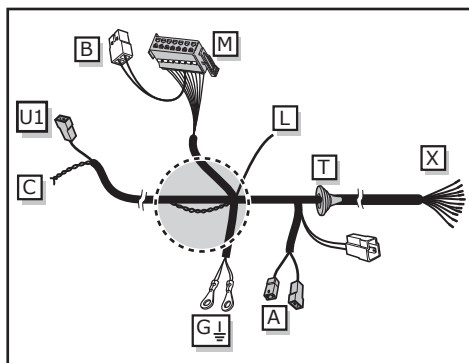


28

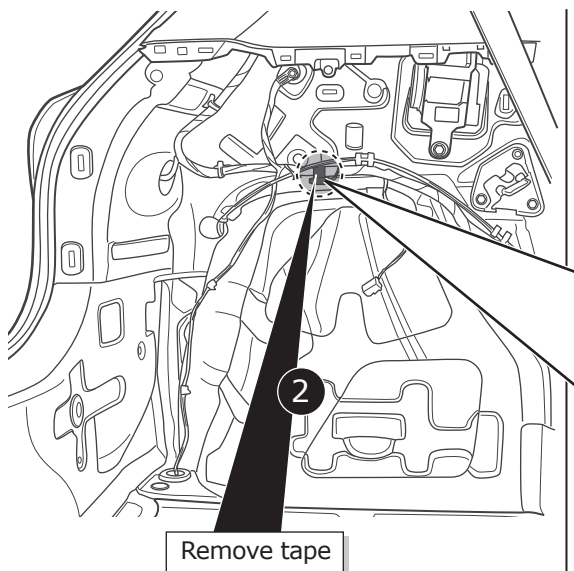
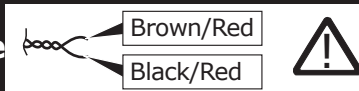
Korando

Tivoli X150

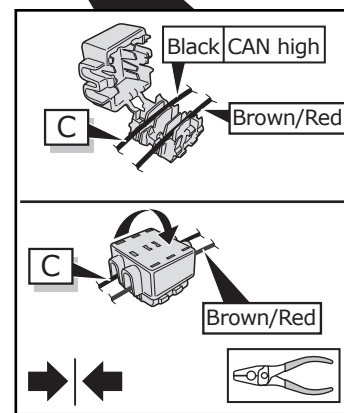
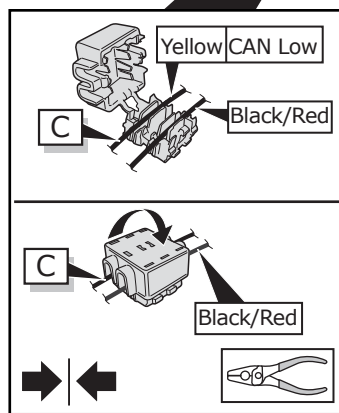
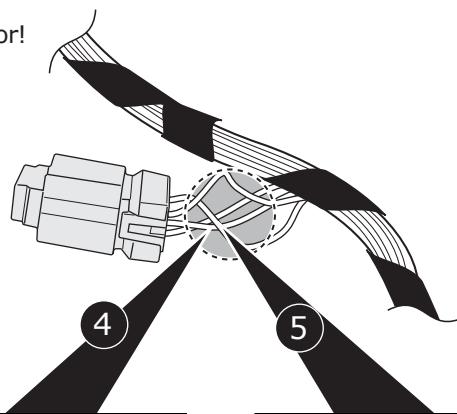
CANBUS Option 1



CAN-Data Wire



CAN-Bus
Joint-Connector!



Black

Yellow

3

1cm

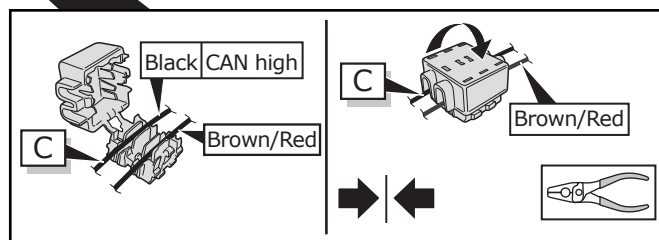
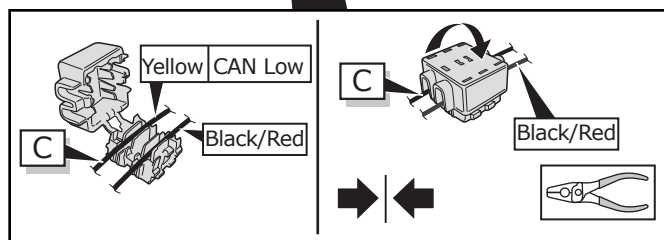
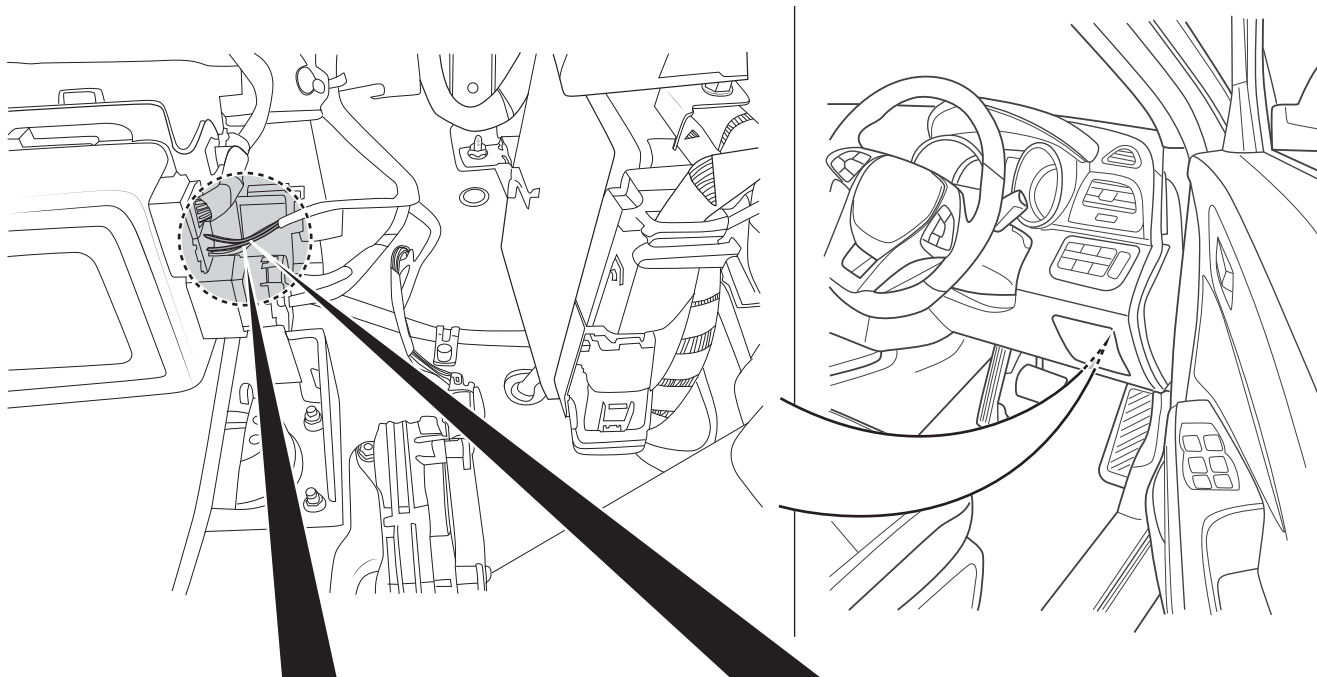
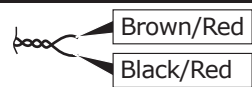
1cm

Korando

Tivoli X150

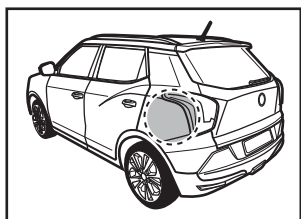
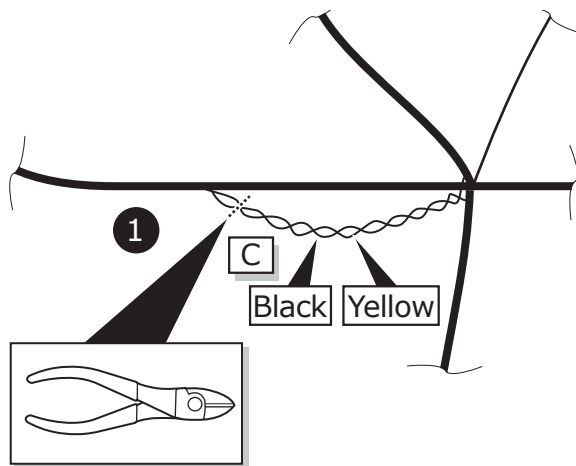
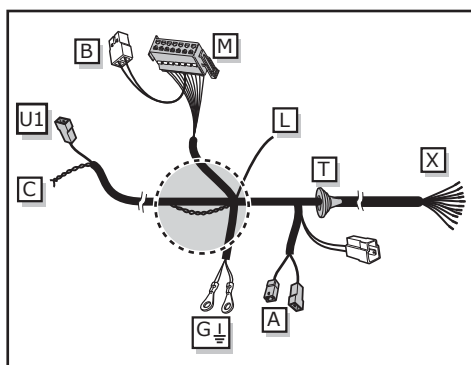
CANBUS Option 2

CAN-Data Wire

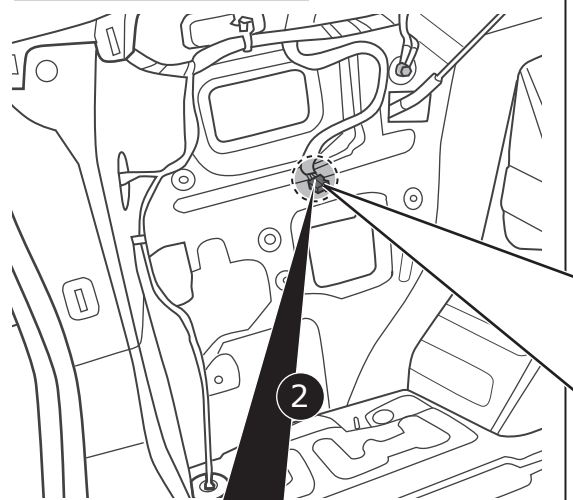
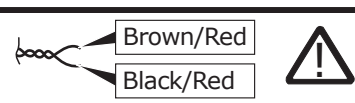


30

CANBUS Option 1

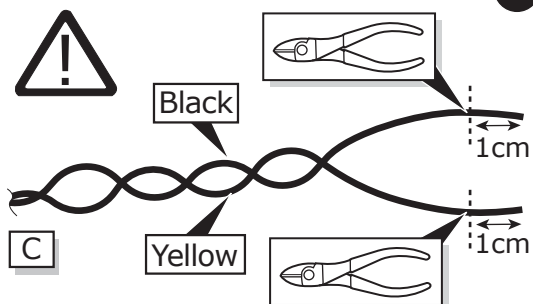
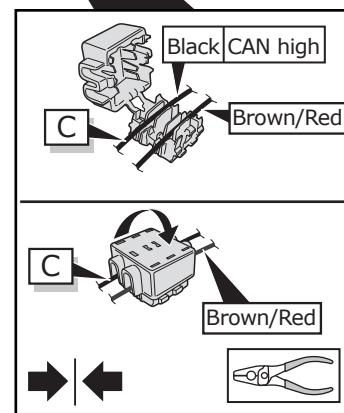
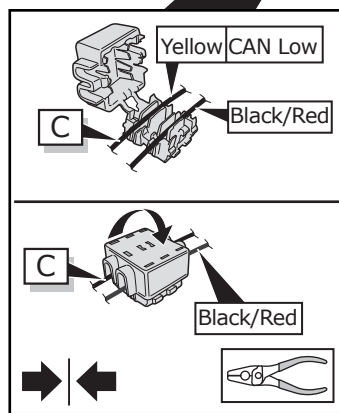
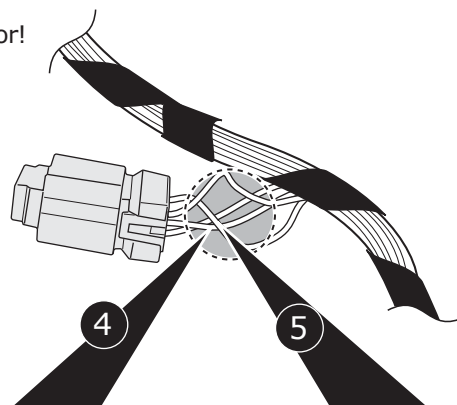


CAN-Data Wire



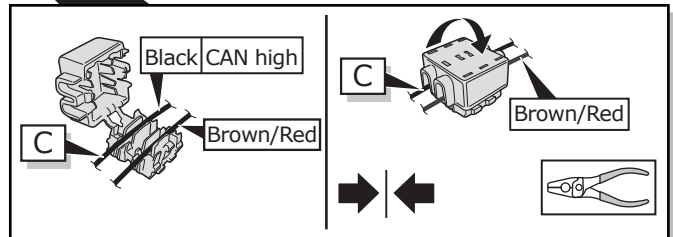
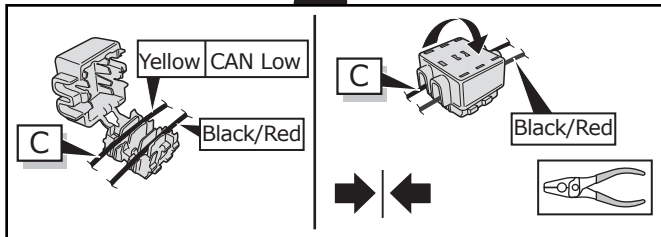
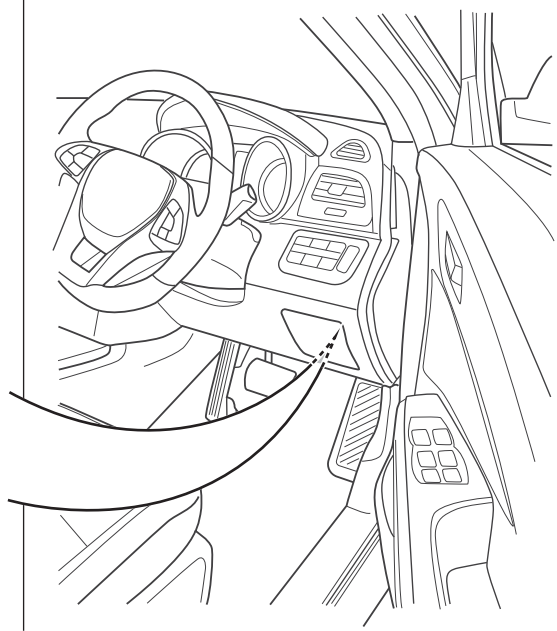
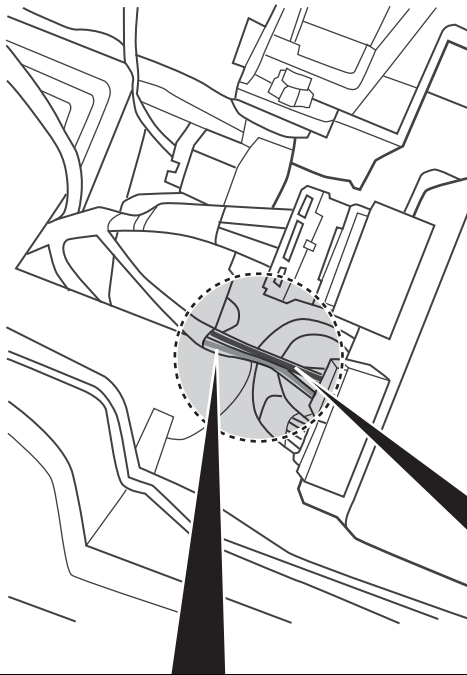
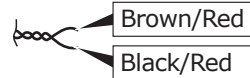
Remove tape

CAN-Bus
Joint-Connector!



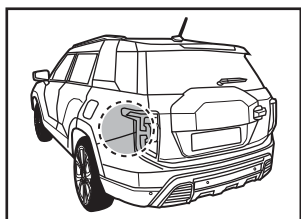
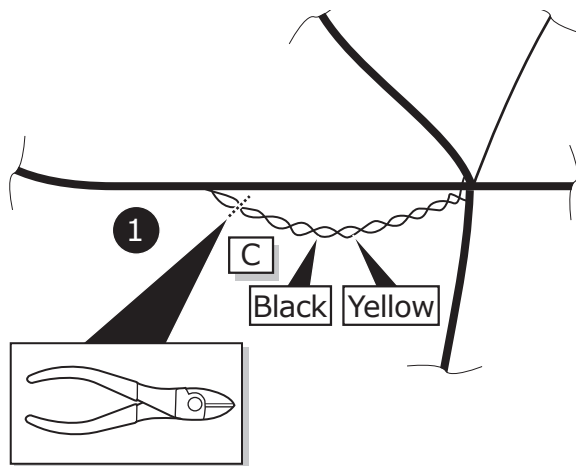
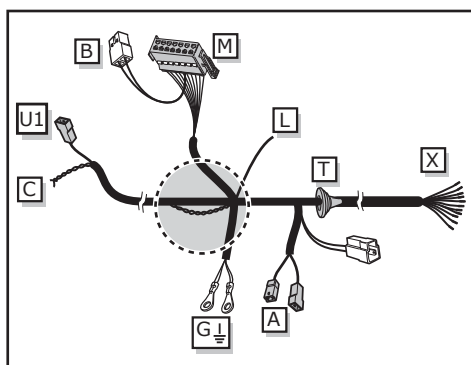
**CANBUS
Option 2**

CAN-Data Wire

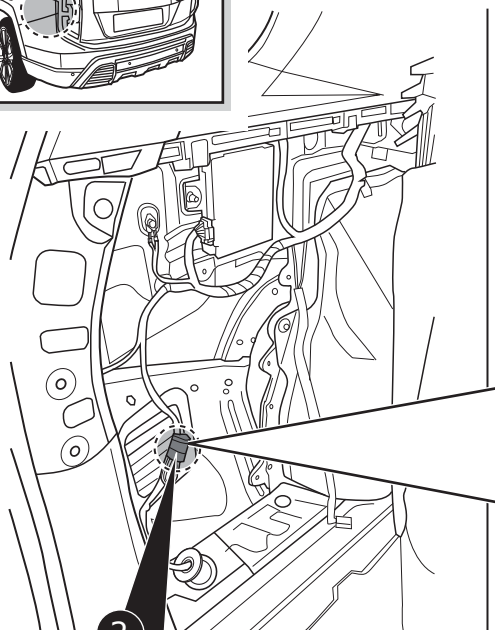
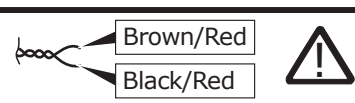


32

CANBUS Option 1

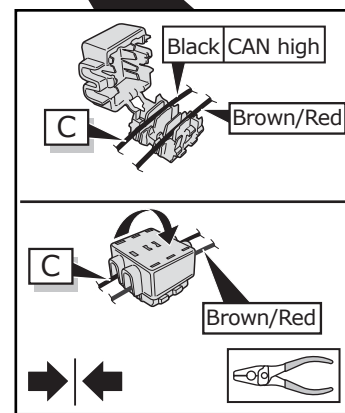
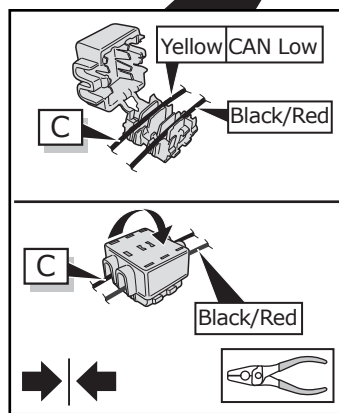
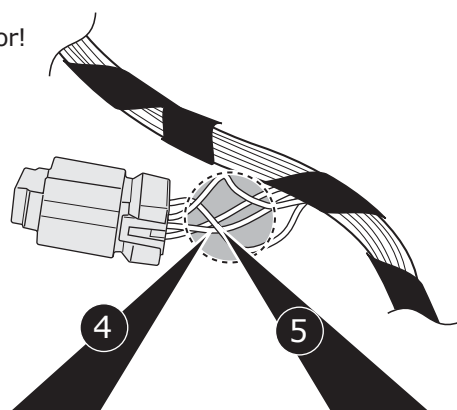


CAN-Data Wire



Remove tape

CAN-Bus
Joint-Connector!



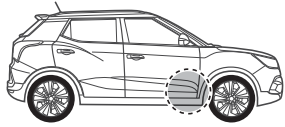
Black

Yellow

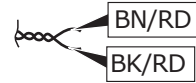
3

1cm

1cm



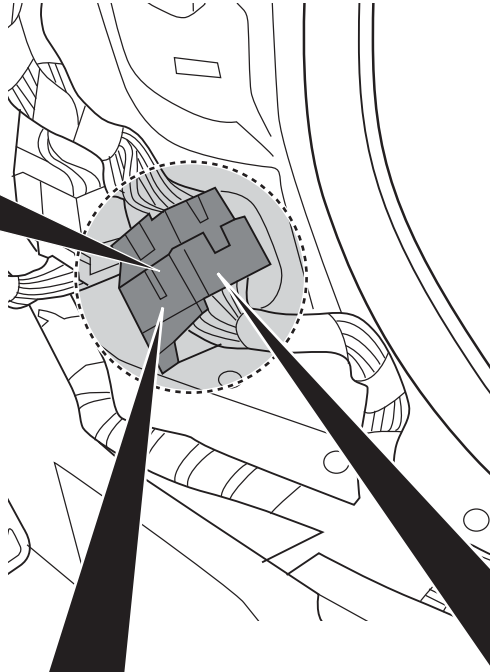
CAN-Data Wire



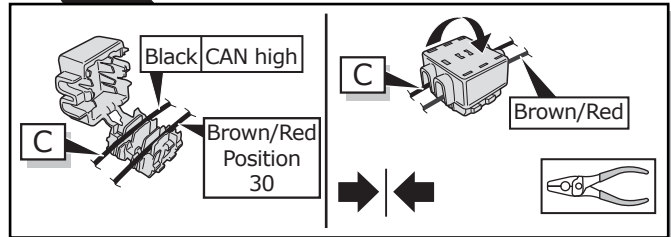
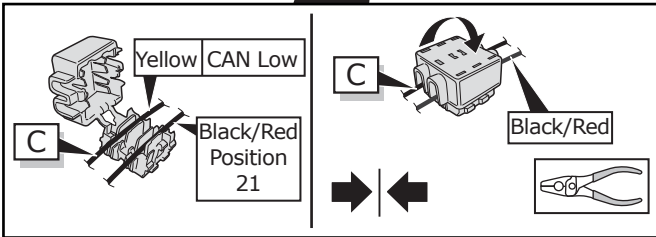
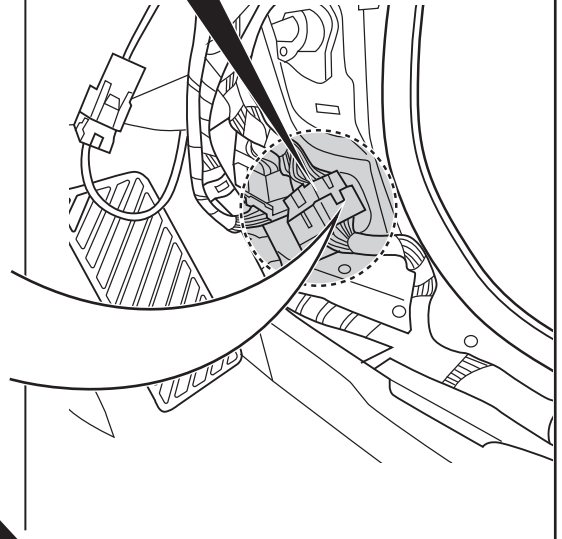
Torres

**CANBUS
Option 2**

Black Connector
77-pin



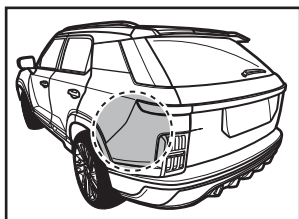
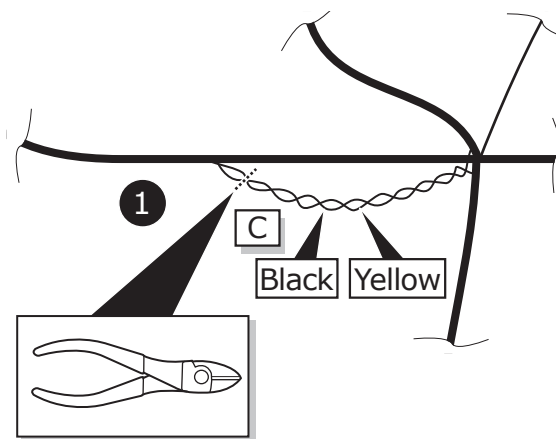
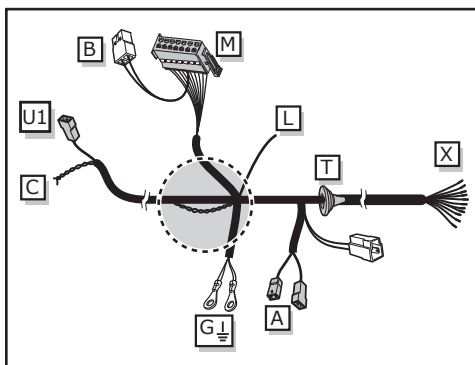
Black Connector
77-pin



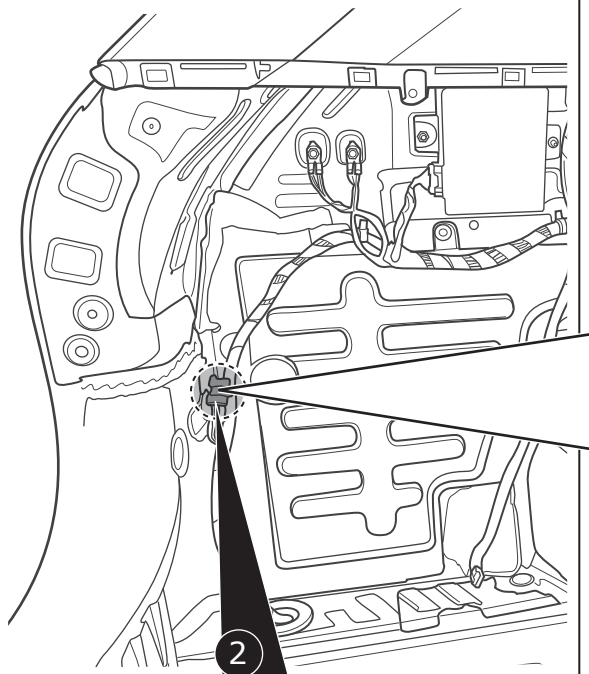
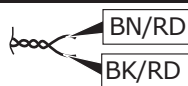
34

Actyon

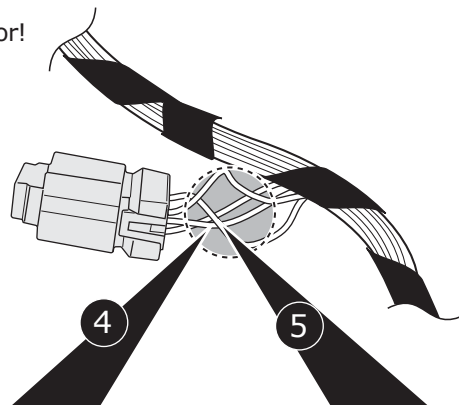
CANBUS Option 1



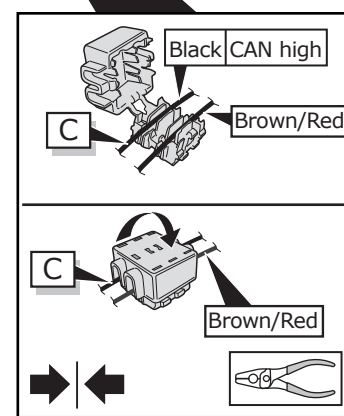
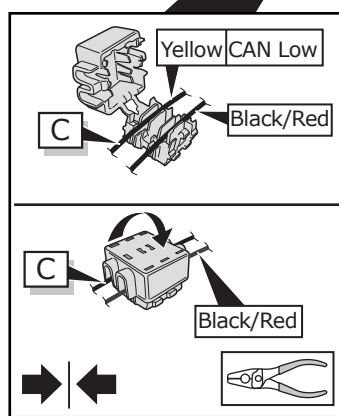
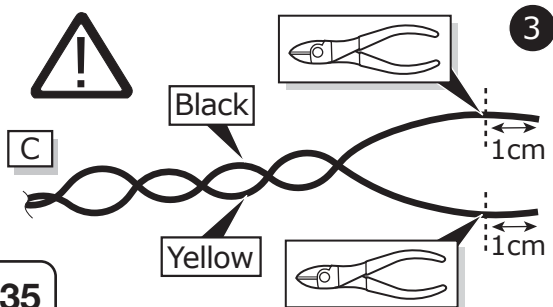
CAN-Data Wire

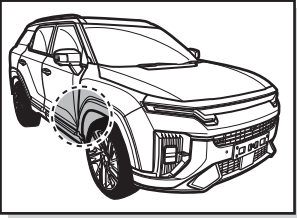


CAN-Bus
Joint-Connector!

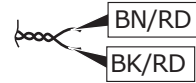


- | | |
|----------------------------------|---------------------------|
| (DE) Klebeband entfernen | (CZ) Odstraňte pásku |
| (FR) Enlevez Ruban adhésif | (DK) Aftag tapen |
| (NL) Tape verwijderen | (FI) Poista teippi |
| (GB) Remove tape | (GR) Αφαιρέστε την ταινία |
| (ES) Retirar la cinta adhesiva | (NO) Fjern limbåndet |
| (IT) Rimuovere il nastro adesivo | (PL) Zdjąć taśmę |
| (SE) Avlägsna klisterbandet | |





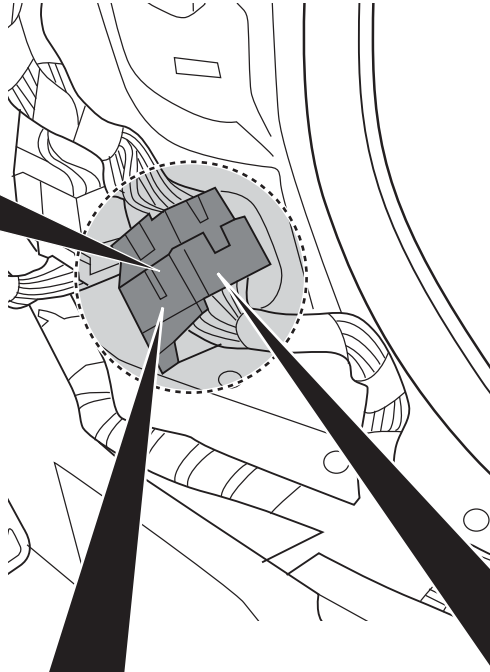
CAN-Data Wire



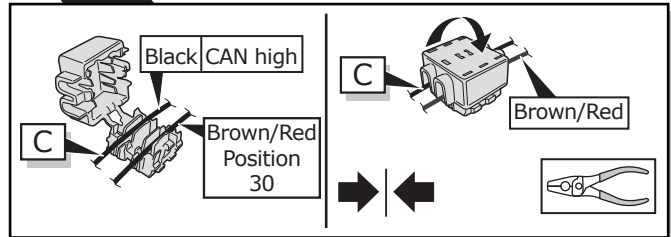
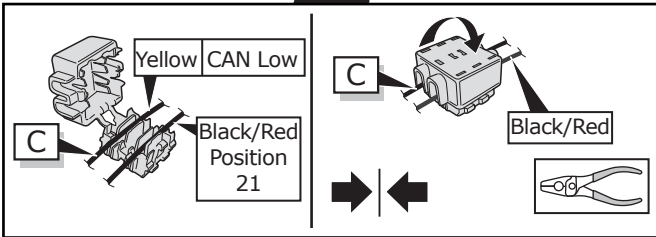
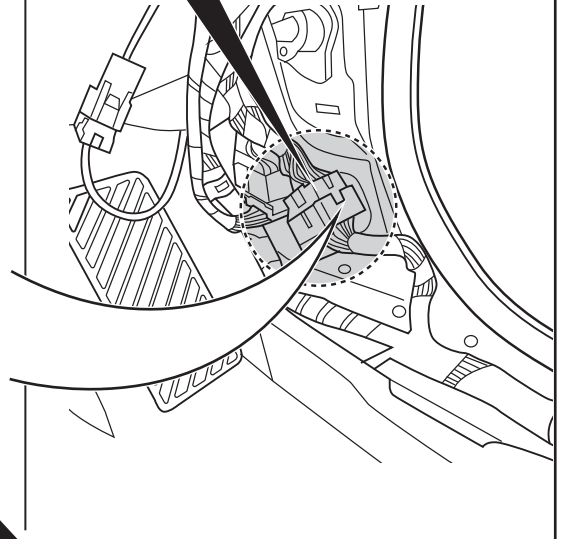
Actyon

**CANBUS
Option 2**

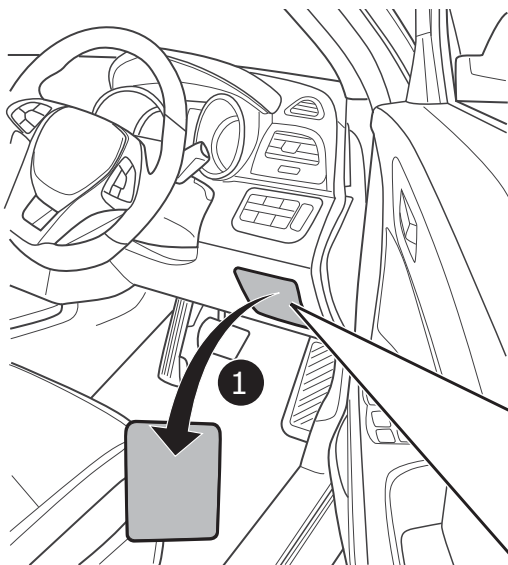
Black Connector
77-pin



Black Connector
77-pin



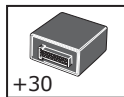
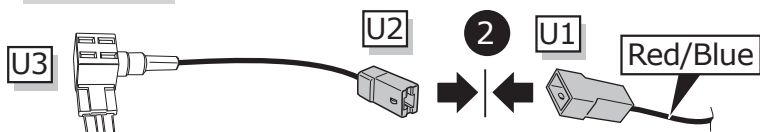
36



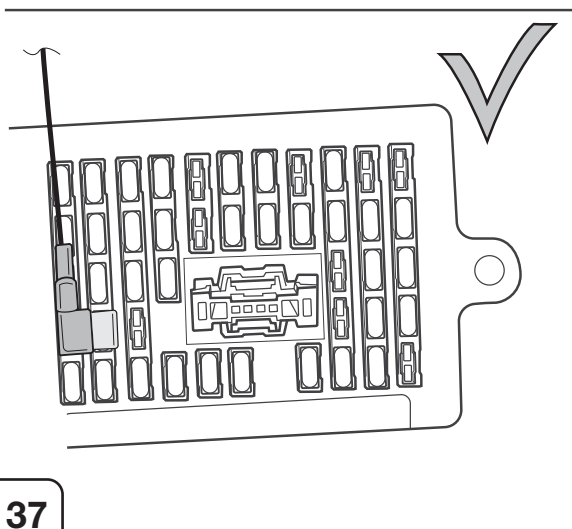
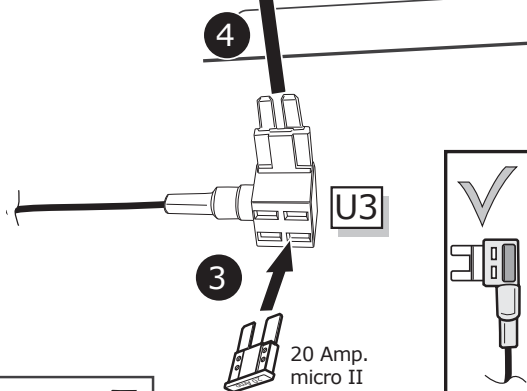
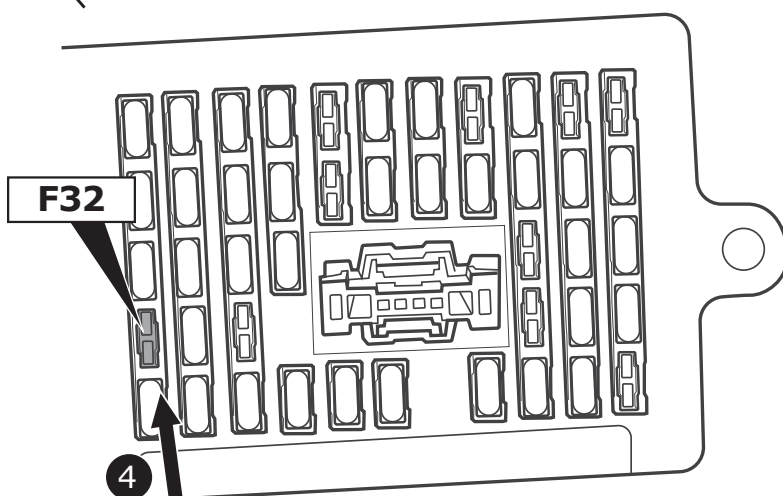
Korando

Torres

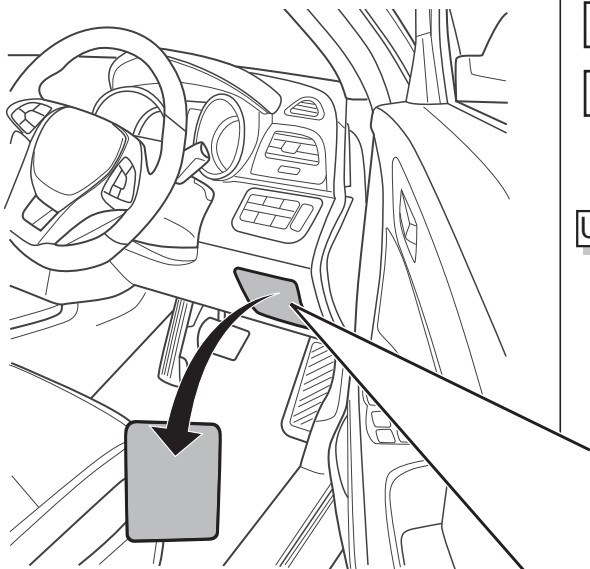
Actyon



Important!
Please do not mount
the fuse tap and its
wiring output in
the other
direction!

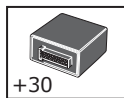
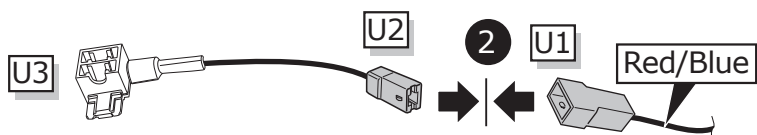


37

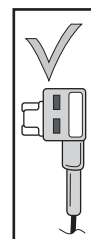
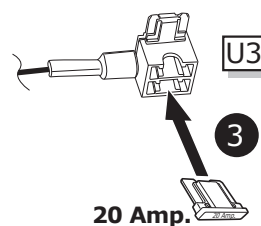
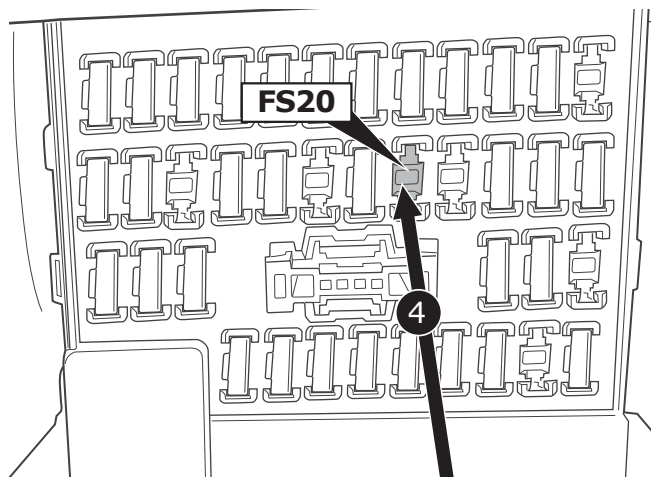


Tivoli X150

Tivoli Grand

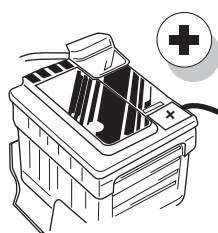


Important!
Please do not mount
the fuse tap and its
wiring output in
the other
direction!



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Optional



**Extension kit
UV-005-ZZU
or
UV-448-ZZU**

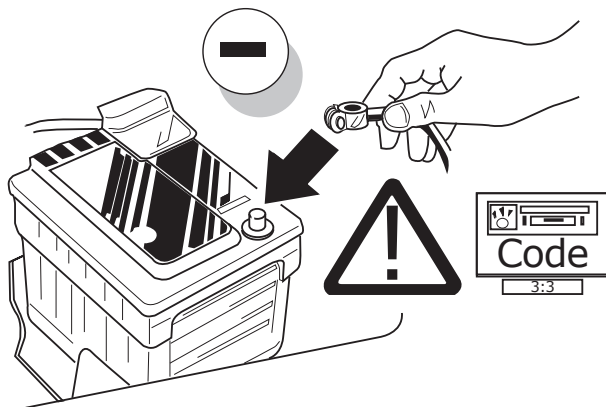


Consult your supplier.

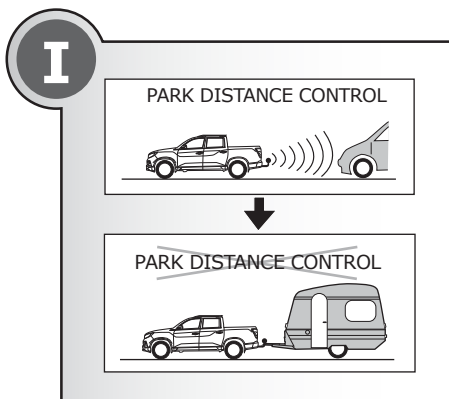
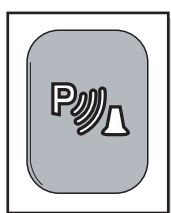


+30V	5 Amp
PIN 9	
15V	5 Amp
PIN 10	

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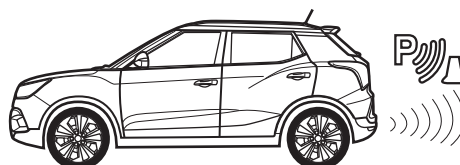
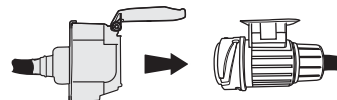
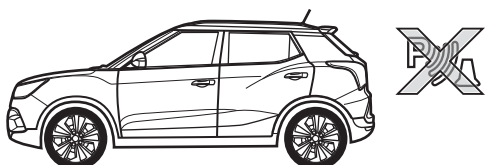
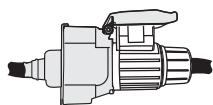


40



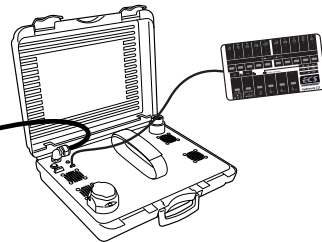
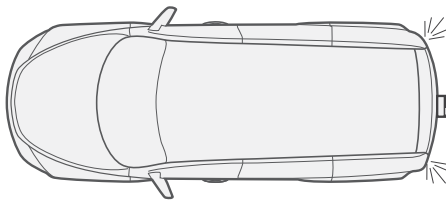
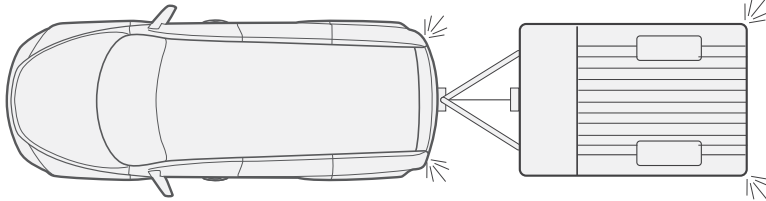
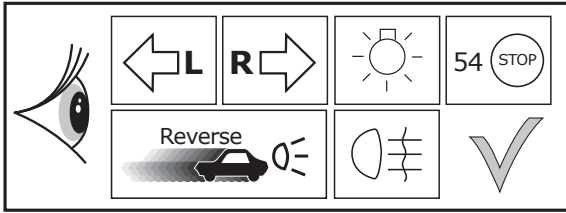
During trailer operations, the rear park distance control will be deactivated automatically. Due to systemic reasons, an acoustic activation indication will be carried out sporadically!

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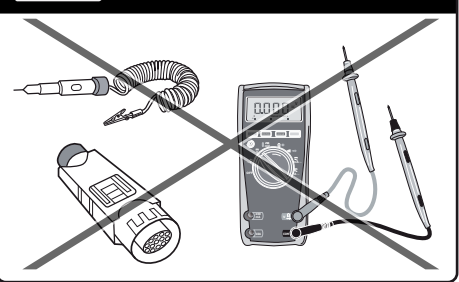


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Functional test



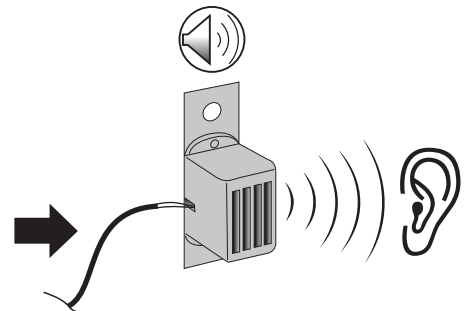
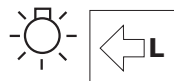
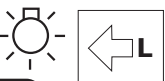
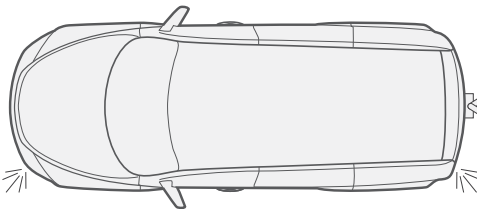
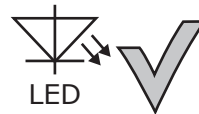
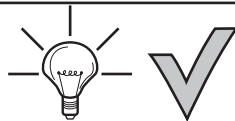
WARNING



LIGHTMATE

ECS part no.
LIGHTMATE II
LIGHTMATE III

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The following light functions for the trailer are **not supported** by all towing vehicles **with DRL circuit**:

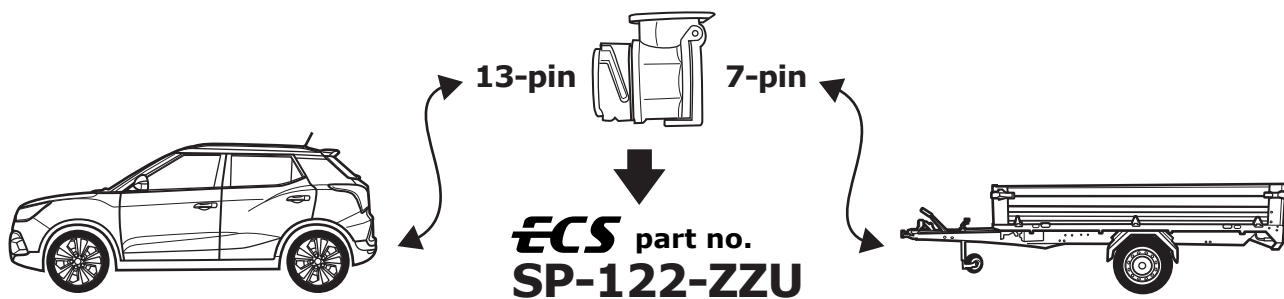
- Rear lights
- Side lights
- Numberplate lights

The **taillights or dimmed headlights** **must be switched on** to activate this function!

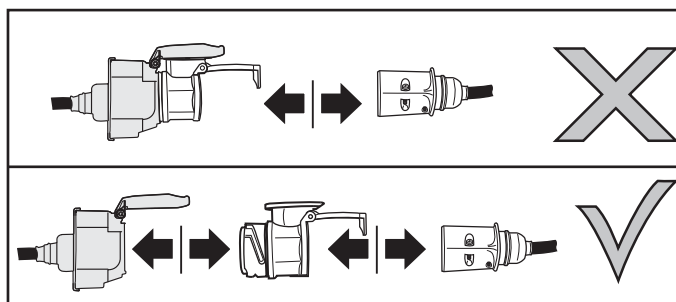
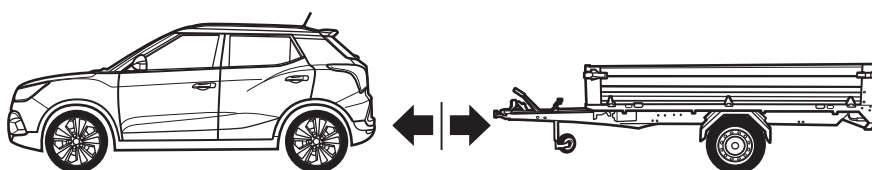
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Optional

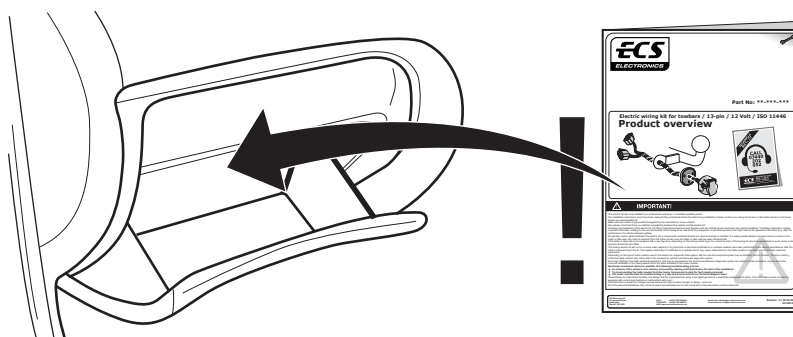
Adapter socket



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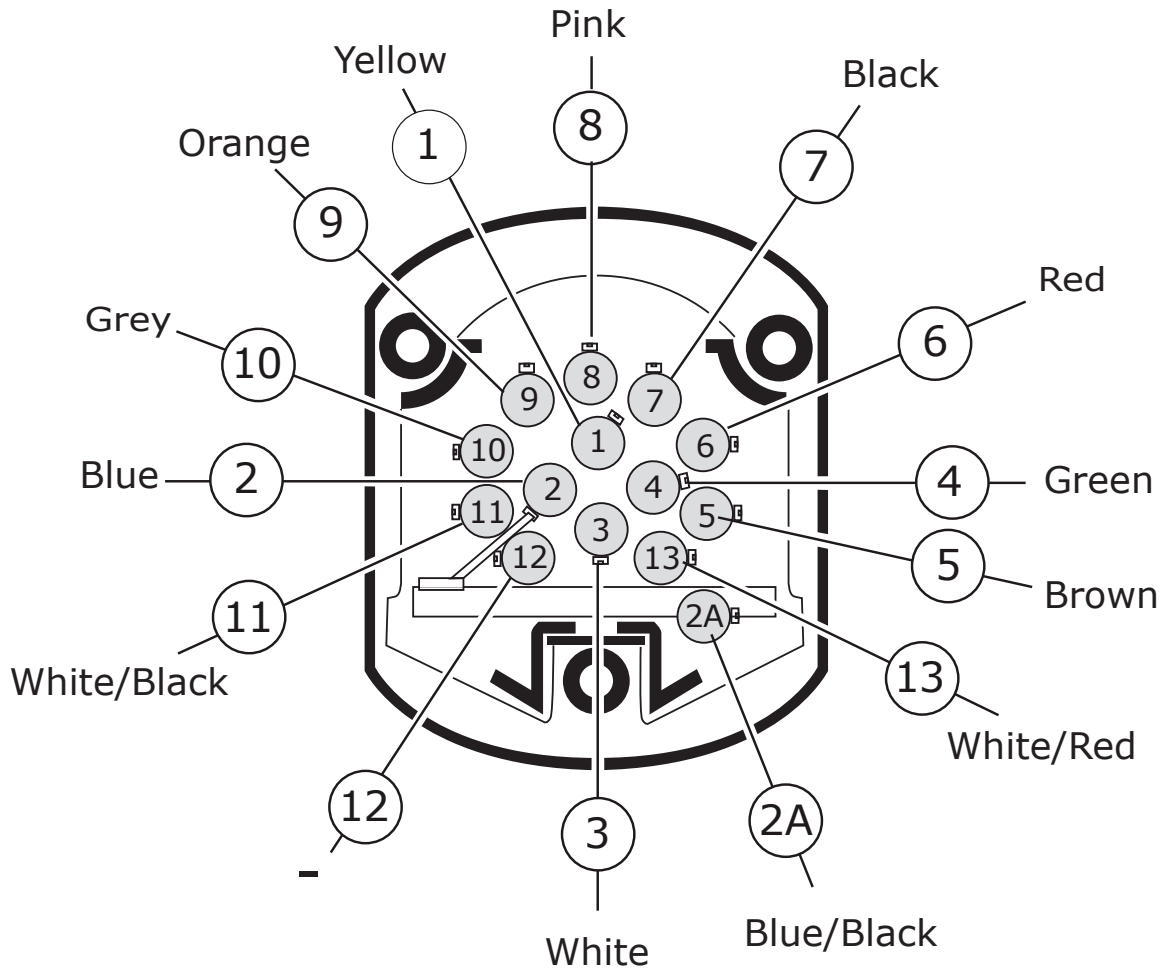
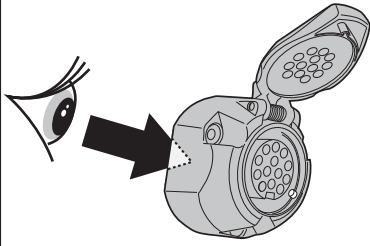


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SOCKET CONNECTION



SOCKET CONNECTION

DIN/ISO 11446														
	1/L	2	2a	3/31	4/R	5/58-R	6/54	7/58-L	8	9	10	11	12	13
Pmax	21W	2x21W			21W	42W	3x21W	42W	21W	180W	180W			
Colour	Yellow	Blue	Blue/Black	White	Green	Brown	Red	Black	Pink	Orange	Grey	White/Black	-	White/Red