

Right Connections

towbar wiring kits for the uk

Ford

Tourneo Connect III

08/2023 >>

Grand Tourneo Connect III

08/2023 >>

Transit Connect III

08/2023 >>

Volkswagen

CADDY V

08/2023 >>

CADDY V Maxi

08/2023 >>

CADDY V Cargo

08/2023 >>

CADDY V Kombi

08/2023 >>

CADDY V California

08/2023 >>

CADDY V PanAmericana

08/2023 >>

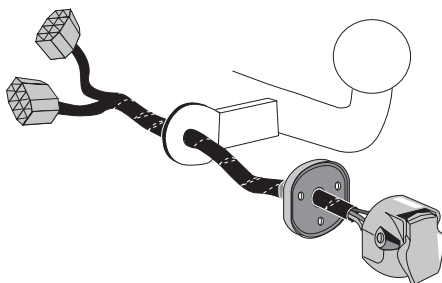
T7 Multivan

08/2023 >>



Part No: VW-288-13M

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



Please note:

This tow bar wiring kit has no influence on the towing vehicle's assistance systems. Assistance systems with emergency brake function (AEB) will not be influenced or automatically 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 vehicle owner's manual.



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!**

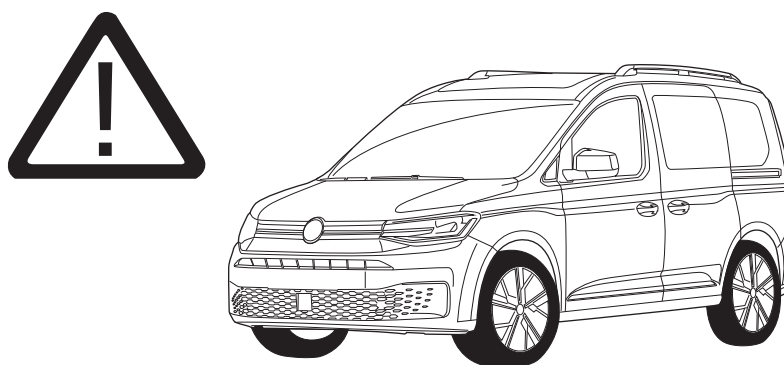
Please follow our instructions carefully and always test the towing electrics using a true lighting board or a specifically designed bulb tester. If an LED tester is used, ensure it is equipped with correct load resistors or malfunctions will occur!

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!



**This kit does not support any of the assistance systems of the vehicle.
Vehicle assistance systems may have to be deactivated manually
when towing a trailer!**



**Please note that the operation of the electric tailgate will continue
to function with a bicycle carrier/trailer/caravan attached.
It must be operated manually.**

INFO



U1



U4



L2



L3



L1



B



G



L5



L4



L6



L7



M



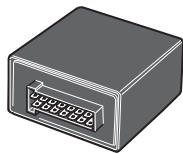
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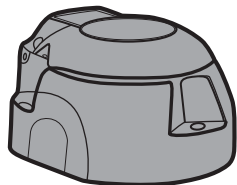
X



30x



M



3x



3x



3x



2x



6x

U2



U3



2x



1x



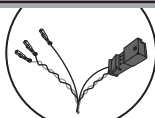
3x



2x



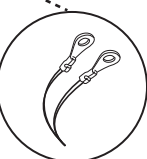
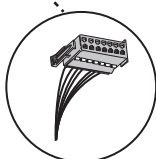
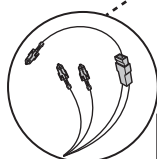
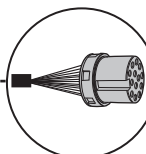
VW T7 Multivan



36-60

13-35, 61-64

6-12



FORD TOURNEO
& VW CADDY

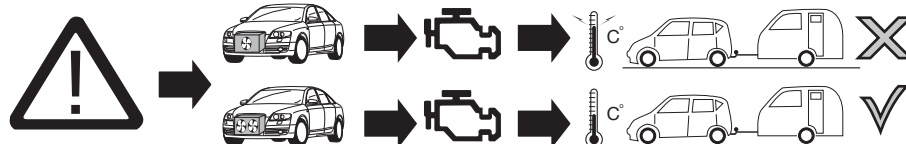
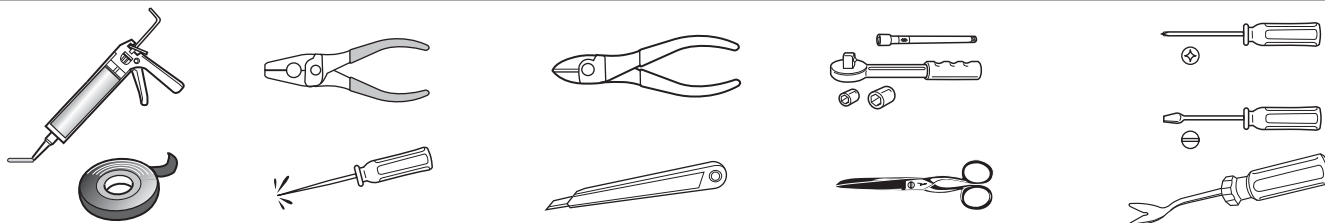
SYMBOL EXPLANATION

58L	Left taillight (58-L)
58R	Right taillight (58-R)
54	Stop light (54) / high mounted, third stop light (54)
	Turn signal indicator left
	Turn signal indicator right
	Rear fog light(s)
	Reversing lights(s)
+30	Permanent power supply / 13pin socket, chamber 9
+15	Charging wire for trailer battery/ 13pin socket, chamber 10
	Trailer / Trailer recognition
+30	Permanent current power supply
+15	Voltage after ignition

	Ground or Earth (31)
	Ground connection battery terminal lug
	Positive connection battery terminal lug
	Fuse / fuse capacity 20 Amp
	Loudspeaker / buzzer
	Park distance control
	Switch / source of function
	Connect together
	Disconnect
	PDC cut off
	Look carefully at selected area
	Present / Occupied / OK

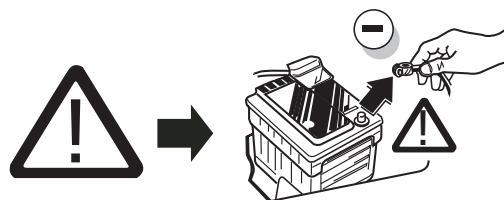
	Not present / Not occupied / not OK
	Left
	Right
	Acoustic indication
	Attention / important advice
	Reusable
	Trash bin
	Use tape
OPTION	Option
INFO	Information
	Measure the voltage
NO NC COMMON	Normally open Normally close Common

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!

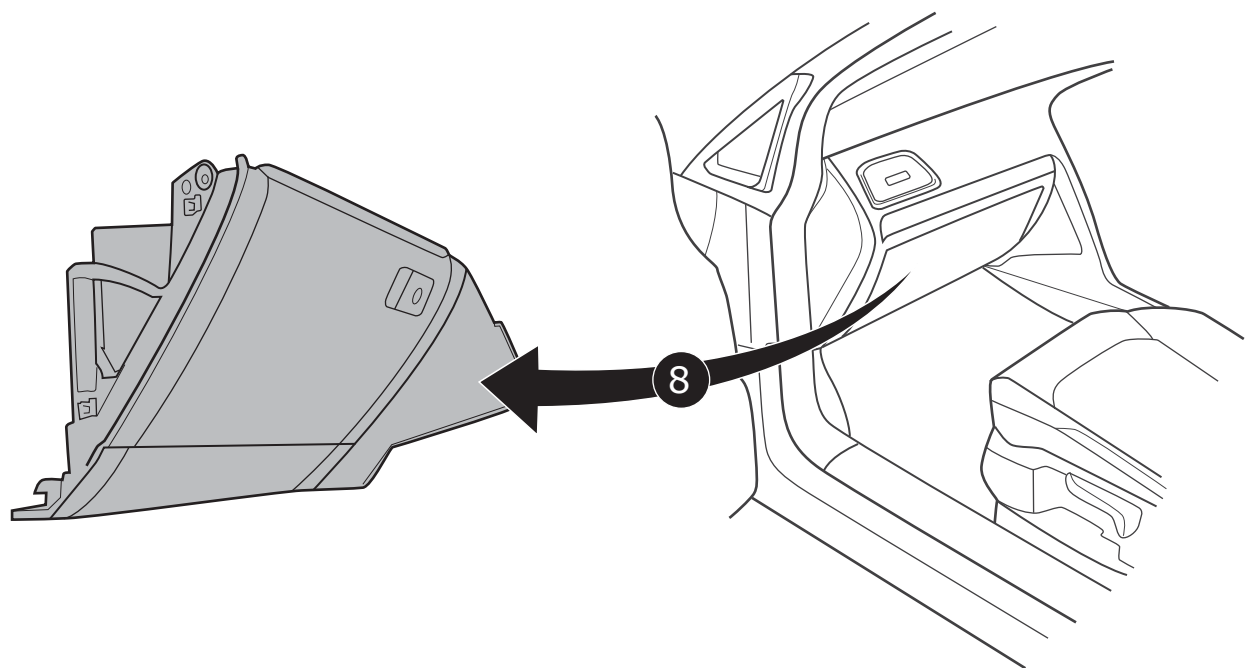
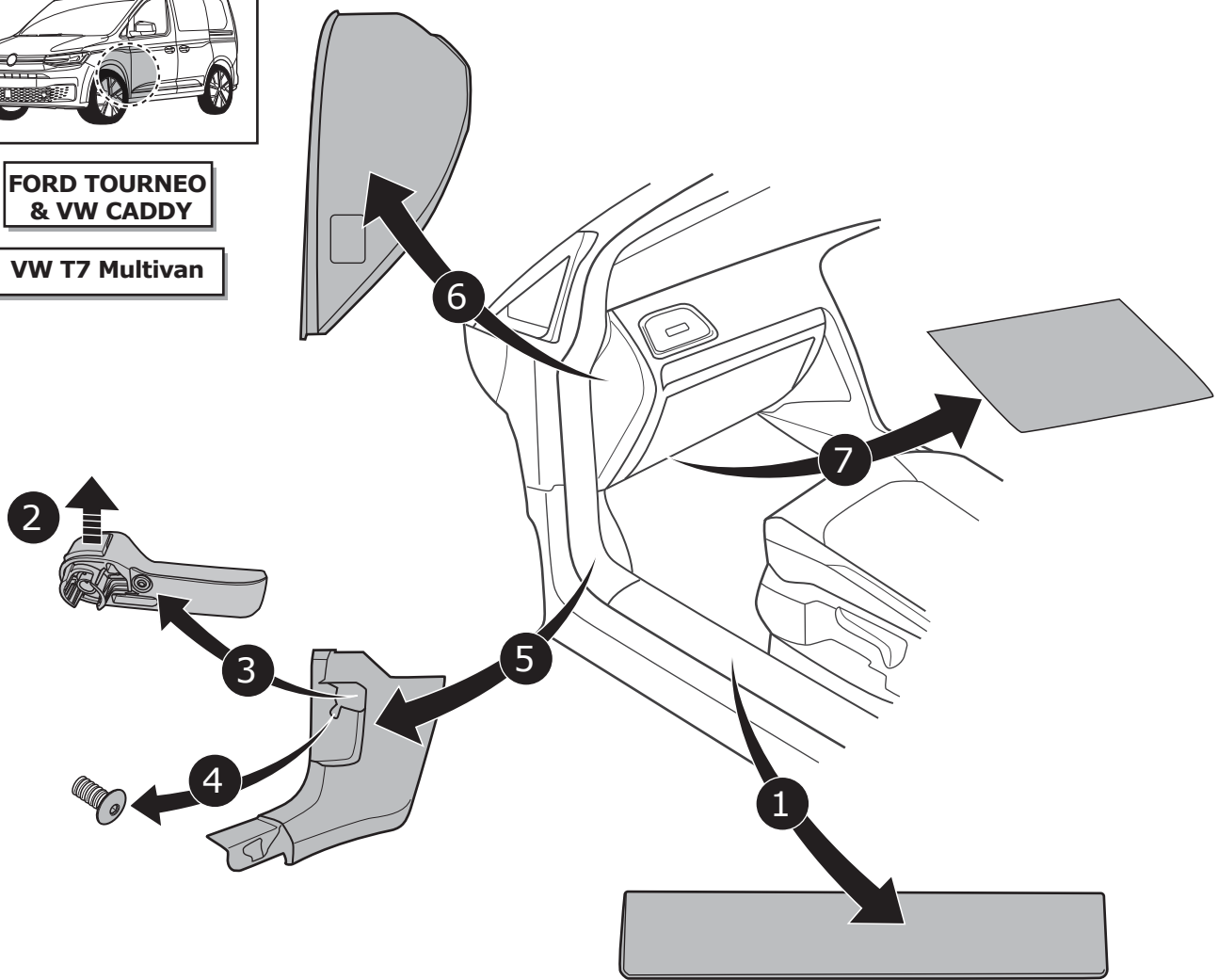
Please pay attention to the manufacturer's instructions when disconnecting and reconnecting the vehicle's battery!

1

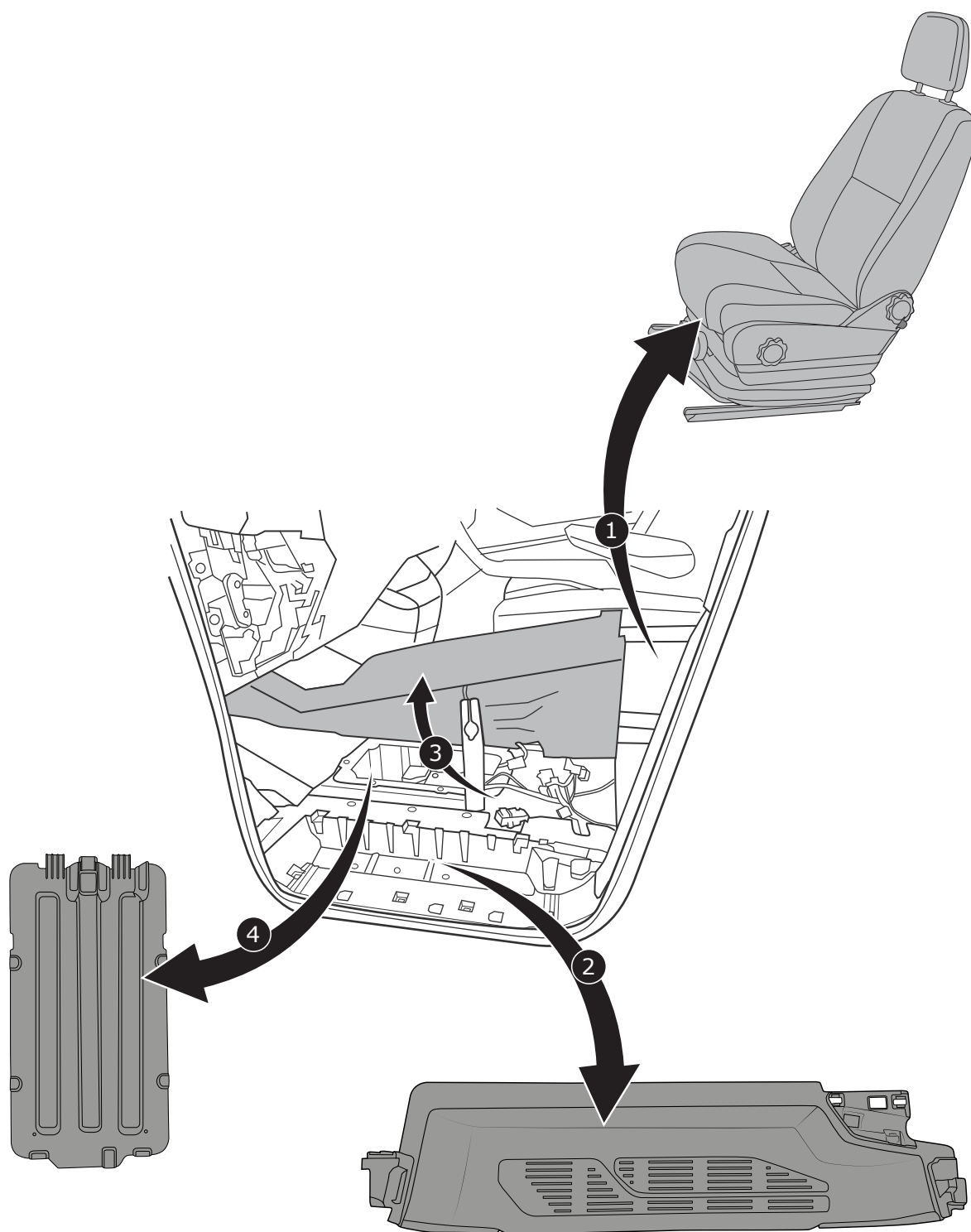


**FORD TOURNEO
& VW CADDY**

VW T7 Multivan

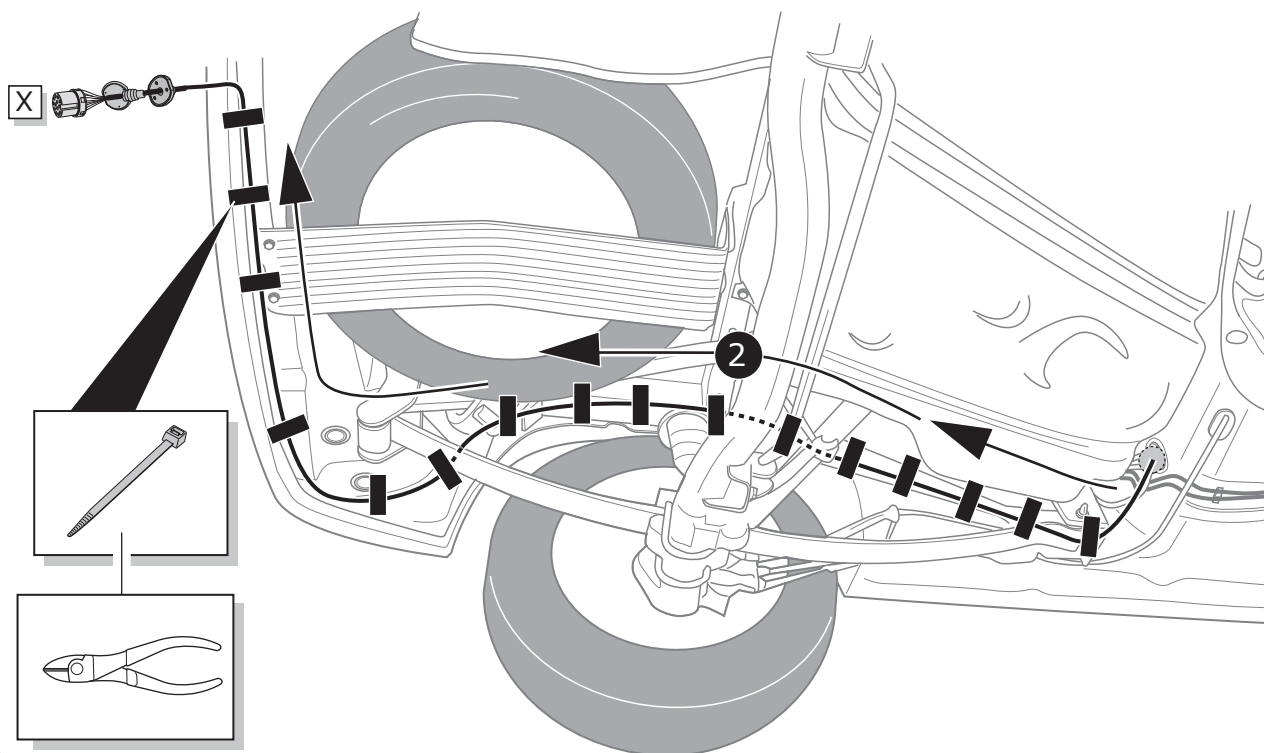
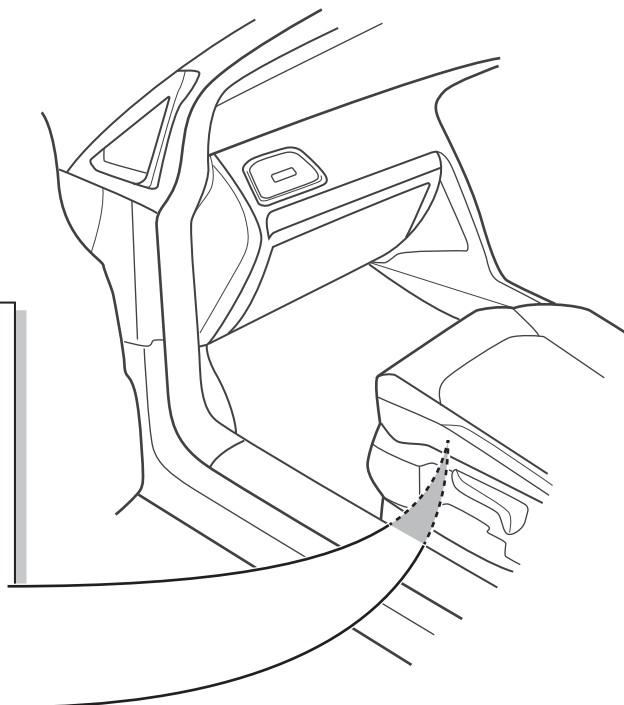
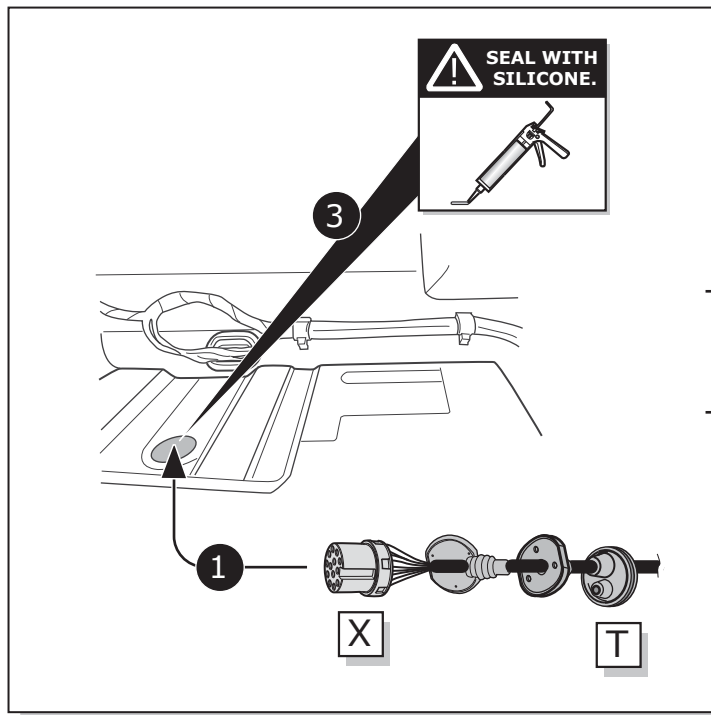


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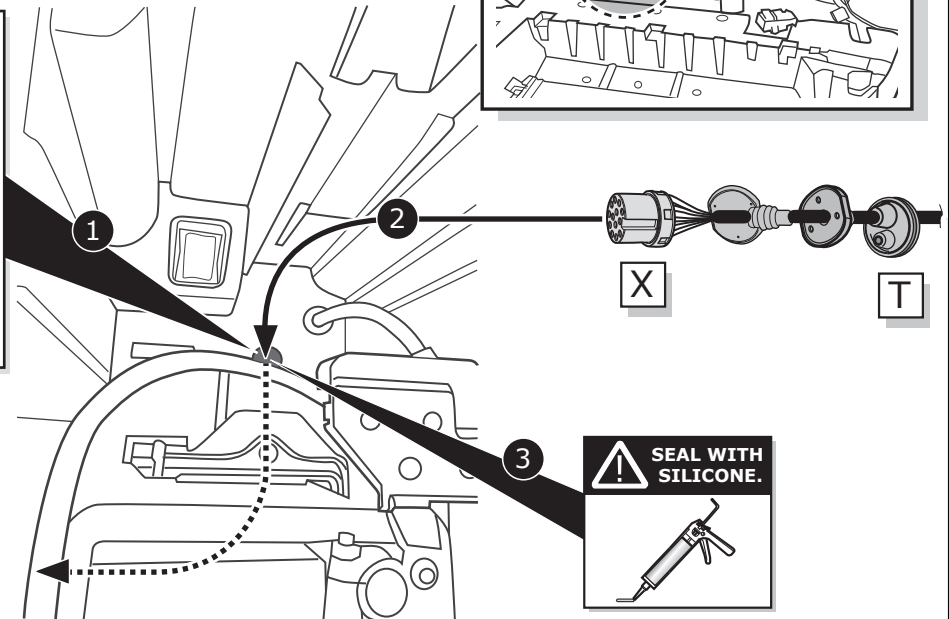
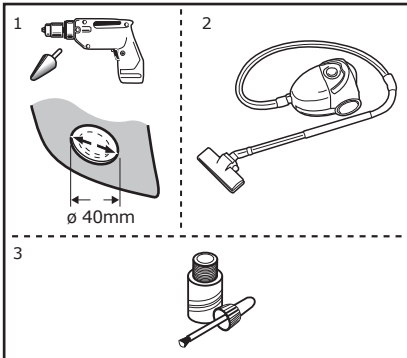
**FORD TOURNEO
& VW CADDY**



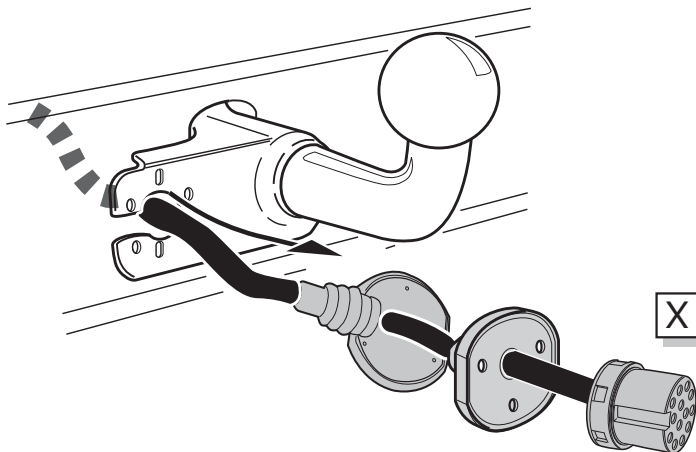
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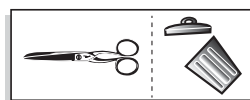
VW T7 Multivan



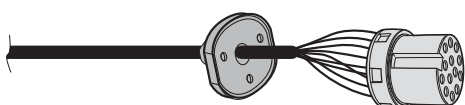
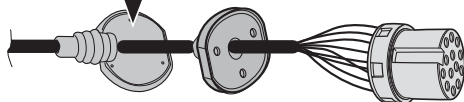
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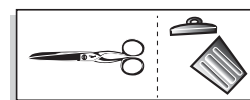
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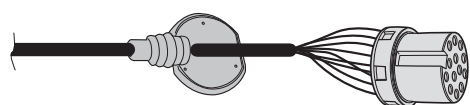
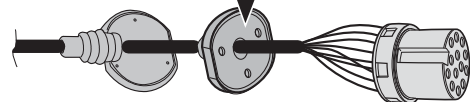
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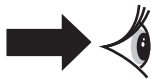
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Option 2



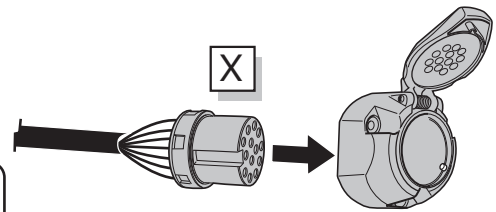
Socket connection



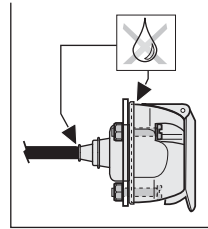
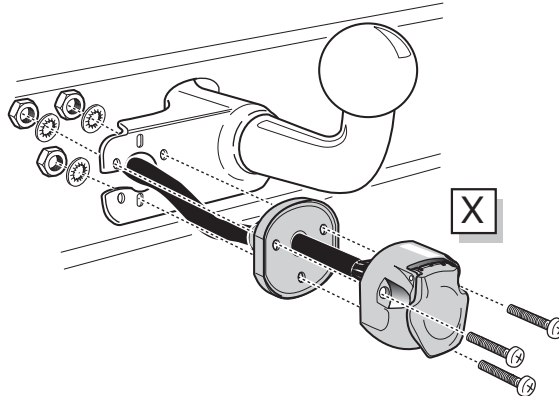
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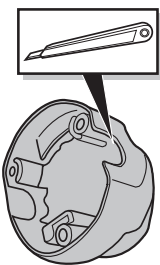


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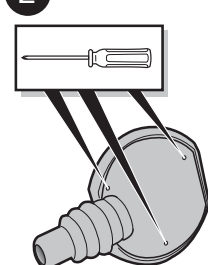


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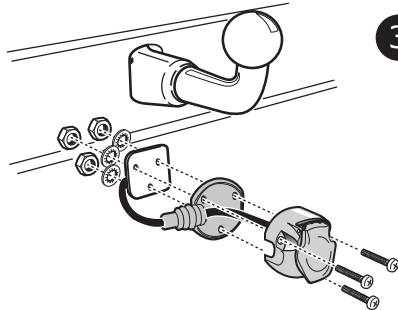
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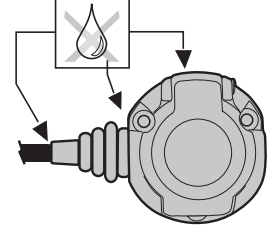
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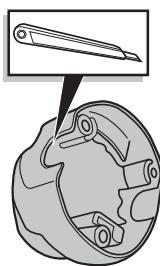


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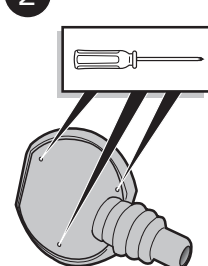


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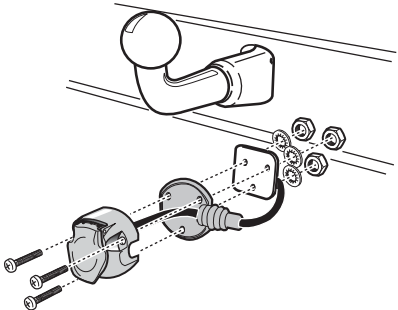
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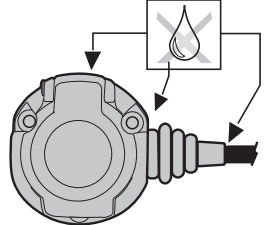
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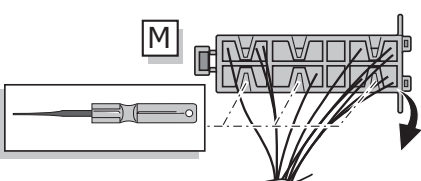
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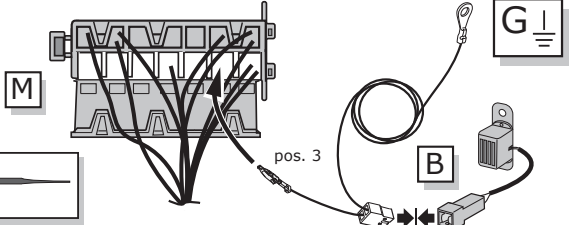


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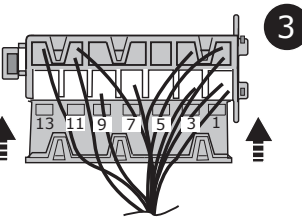


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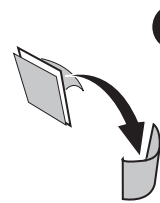
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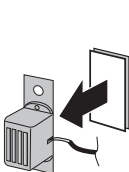


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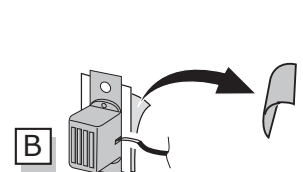


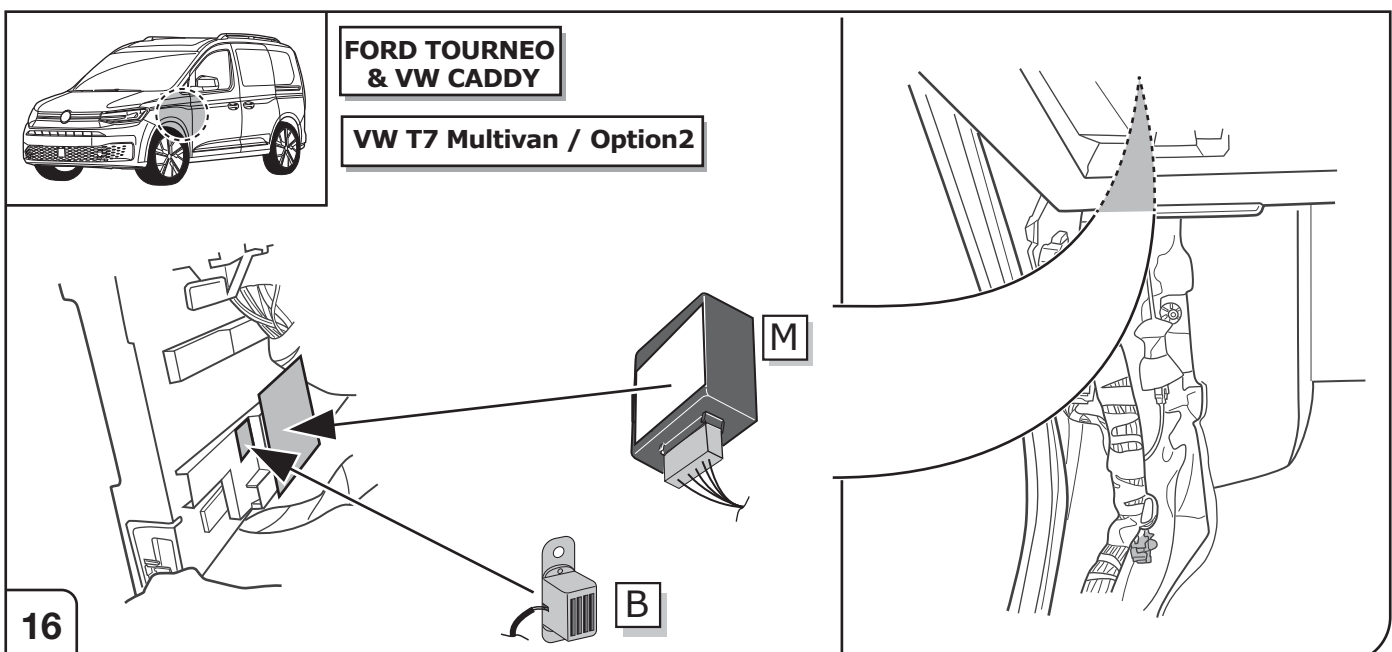
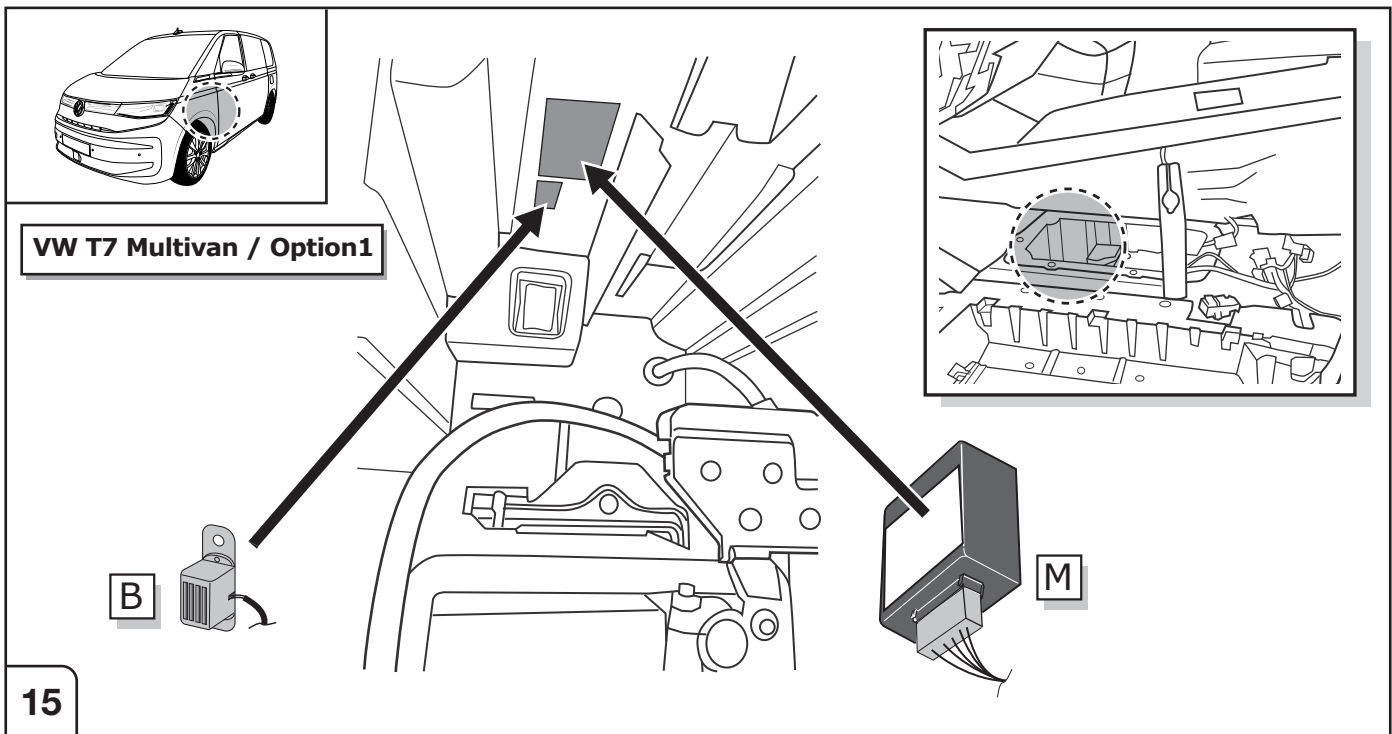
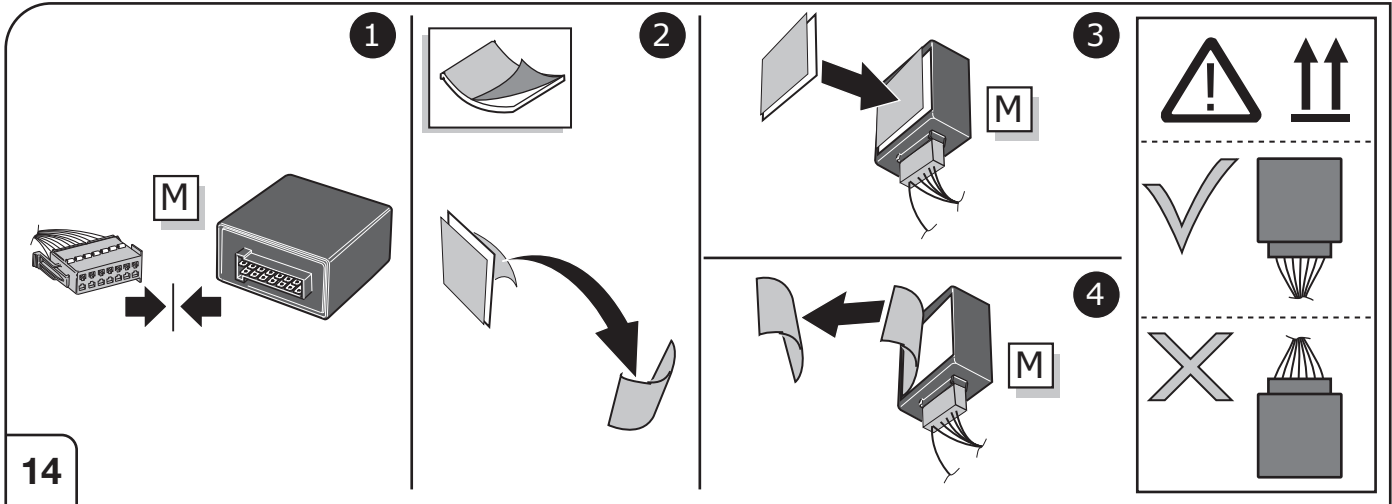
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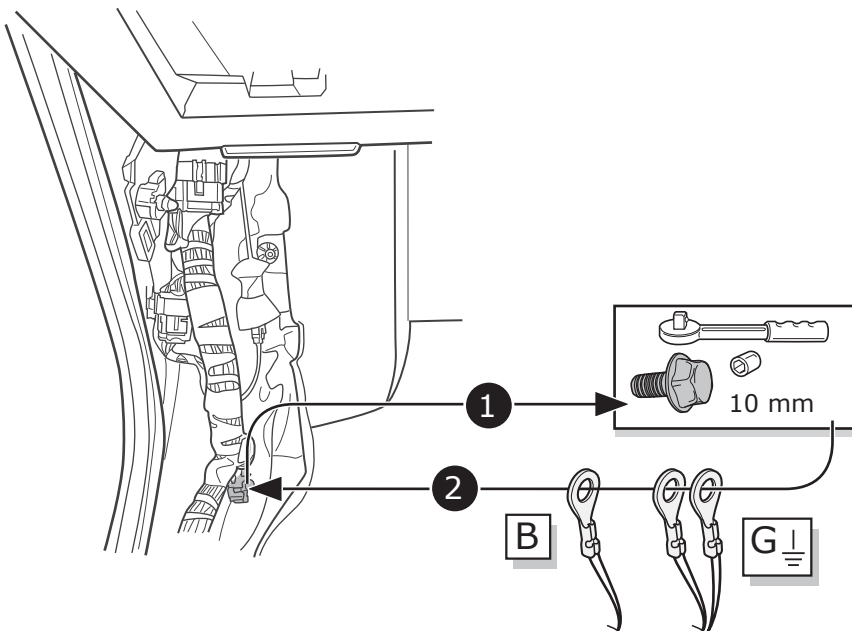
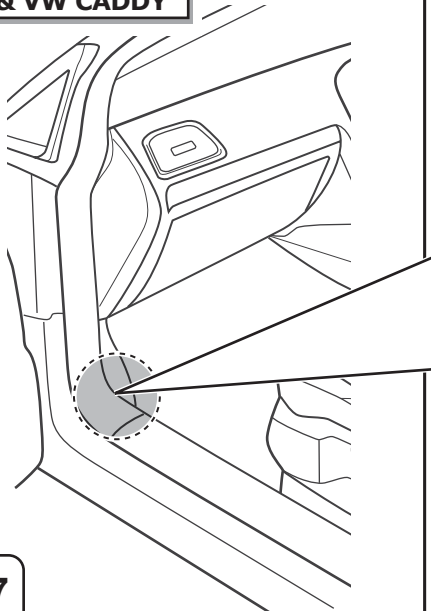


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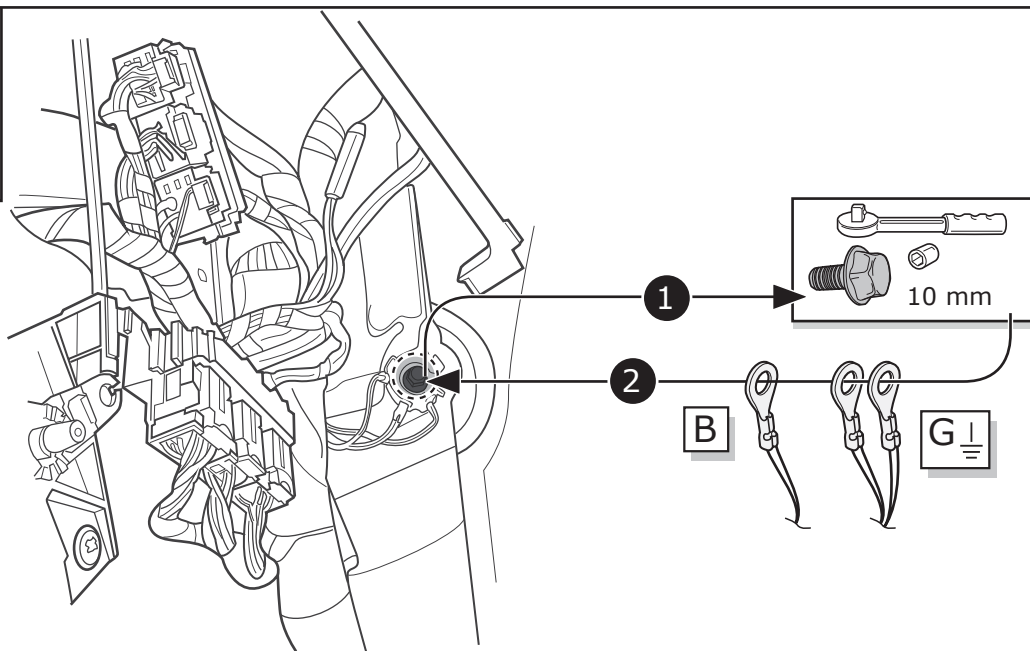
**FORD TOURNEO
& VW CADDY**



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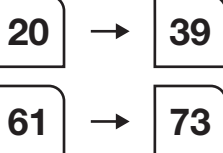
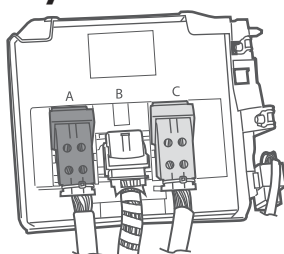
VW T7 Multivan



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**FORD TOURNEO
& VW CADDY**

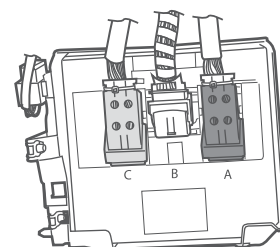
Body Control Module



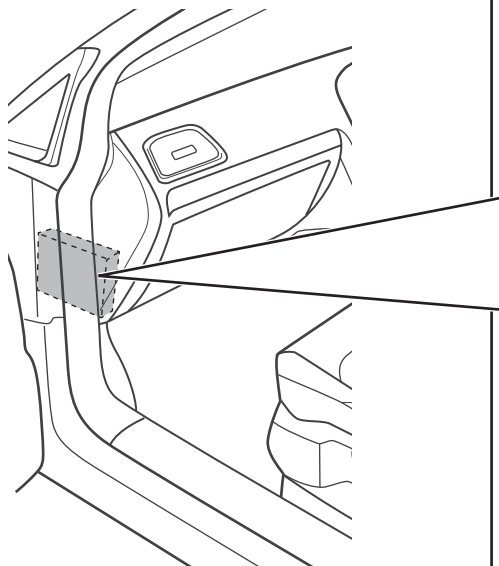
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VW T7 Multivan

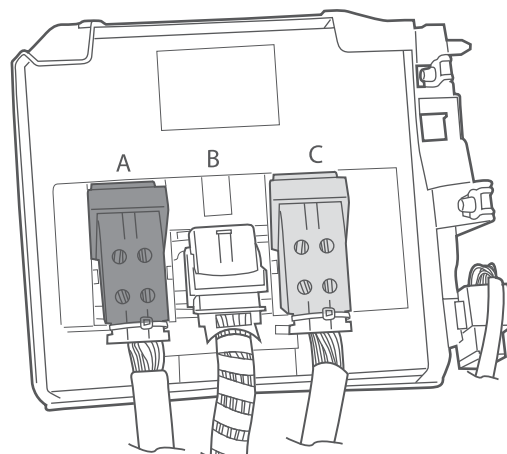
Body Control Module



FORD TOURNEO & VW CADDY

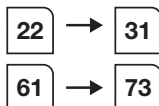


Body Control Module

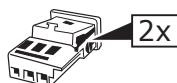


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CANbus OPTION A

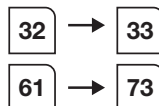


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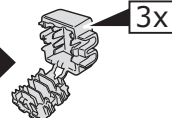


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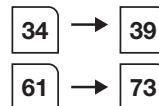
CANbus OPTION B



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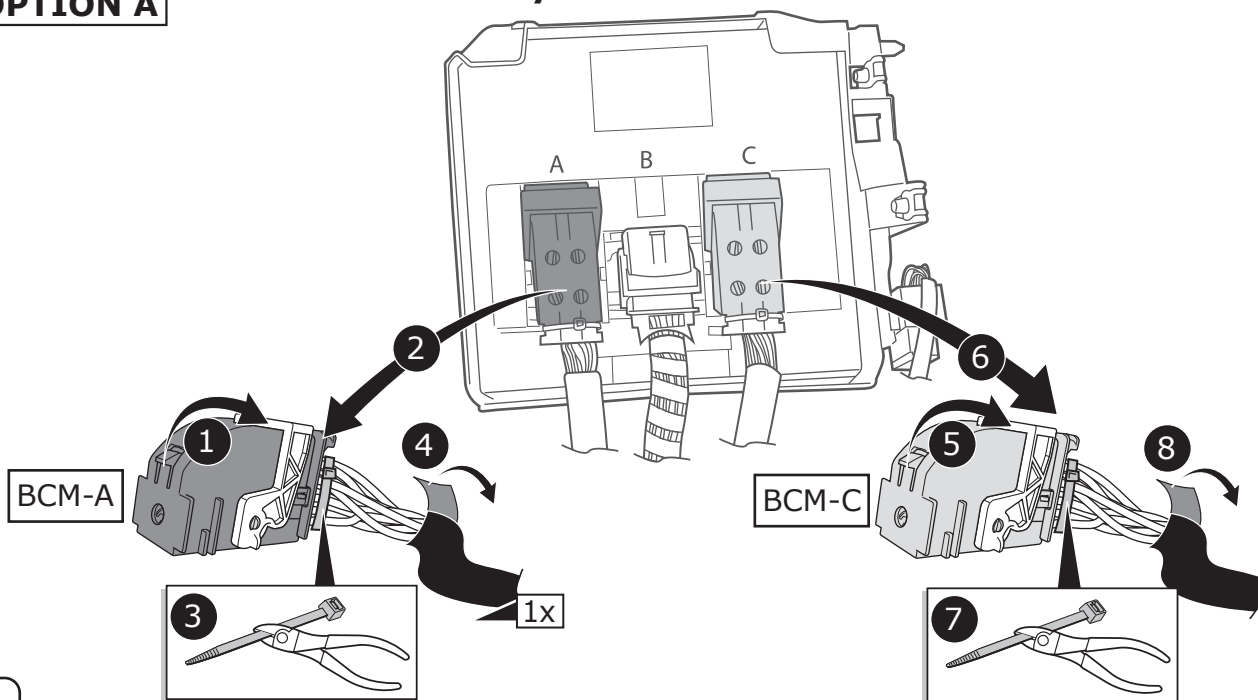
CANbus OPTION C



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CANbus OPTION A

Body Control Module



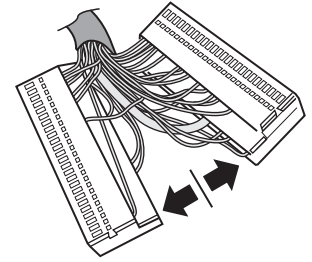
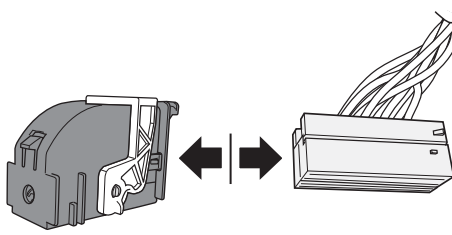
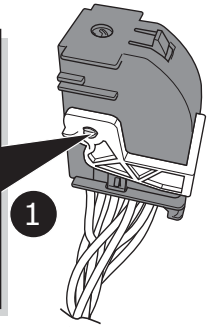
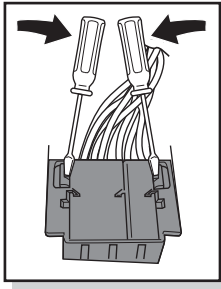
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CANbus OPTION A

BCM-A

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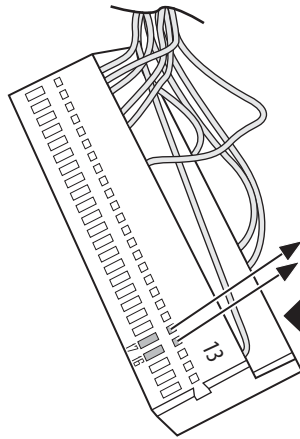
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CANbus OPTION A

BCM-A



CAN L Orange/Brown
Pos. 17

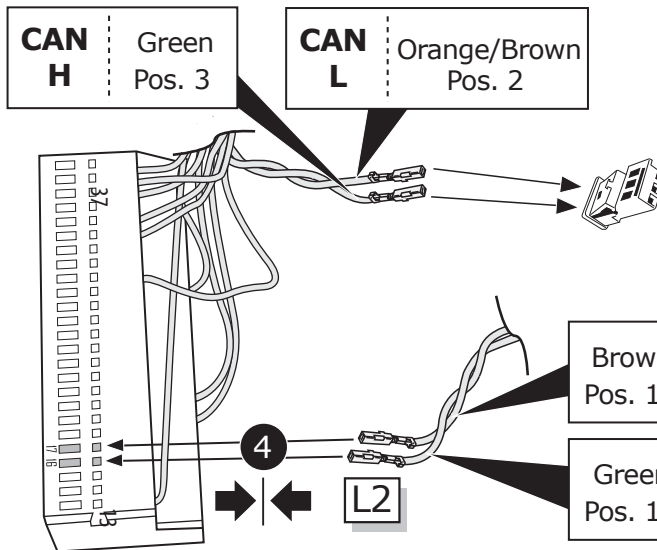
CAN H Green
Pos. 16

Can-bus
Datawire

24

CANbus OPTION A

BCM-A



Brown
Pos. 17

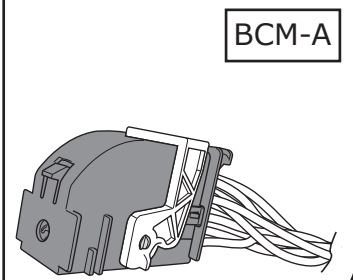
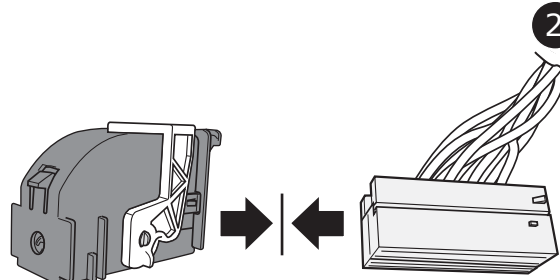
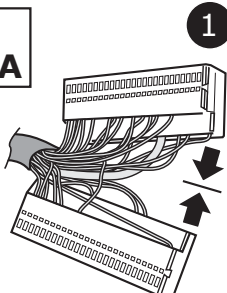
Green
Pos. 16

Can-bus
Datawire

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CANbus OPTION A

BCM-A



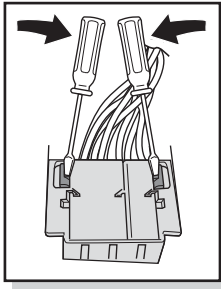
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CANbus OPTION A

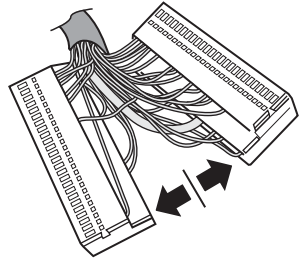
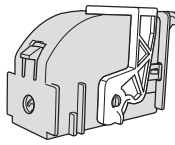
BCM-C

2

3



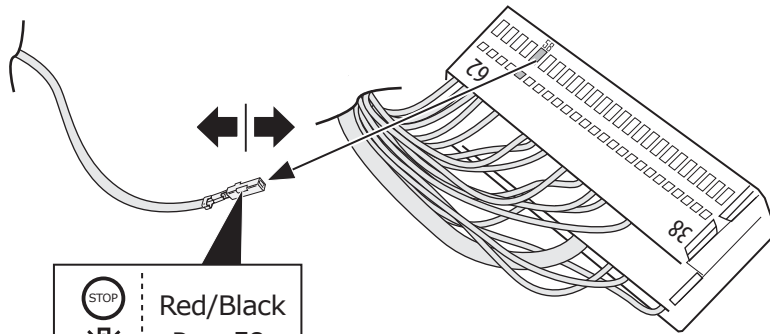
1



27

CANbus OPTION A

BCM-C

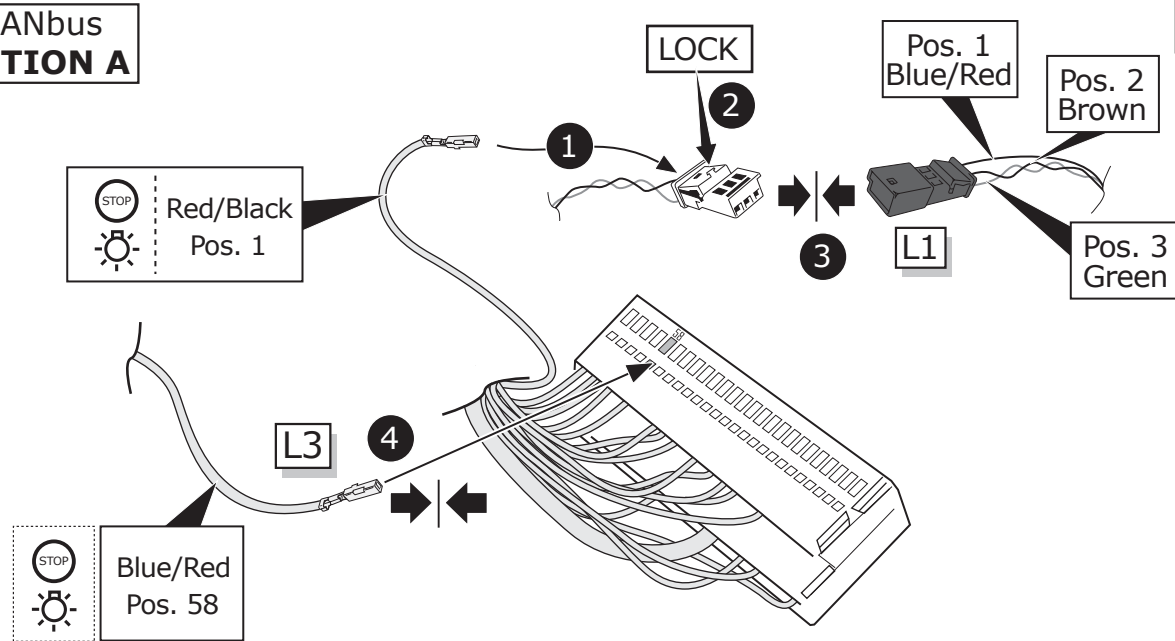


Red/Black
Pos. 58

28

CANbus OPTION A

BCM-C



Red/Black
Pos. 1

LOCK

Pos. 1
Blue/Red

Pos. 2
Brown

Pos. 3
Green

L1

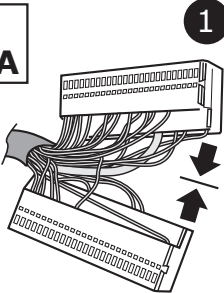
L3

Blue/Red
Pos. 58

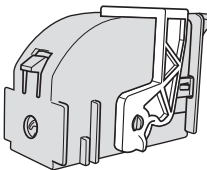
29

CANbus OPTION A

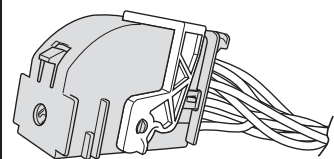
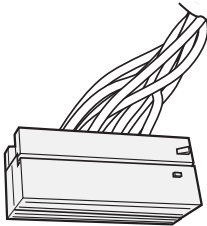
BCM-C



1



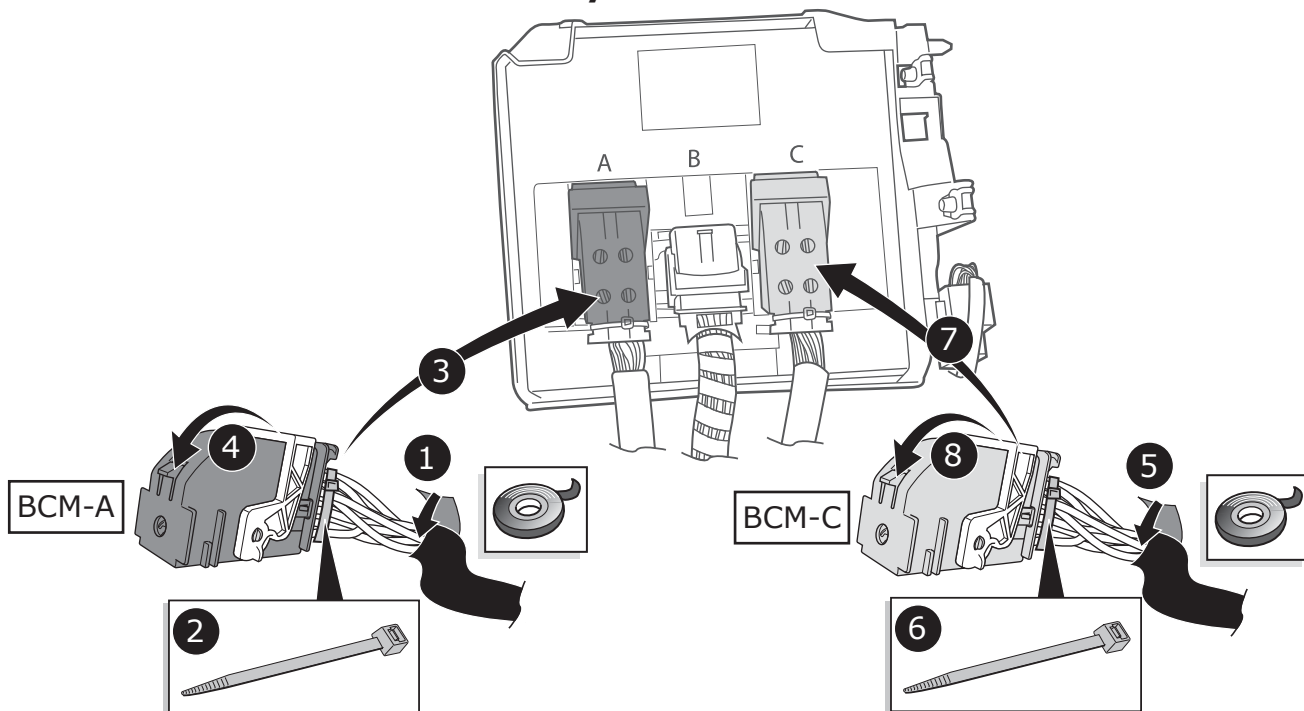
2



30

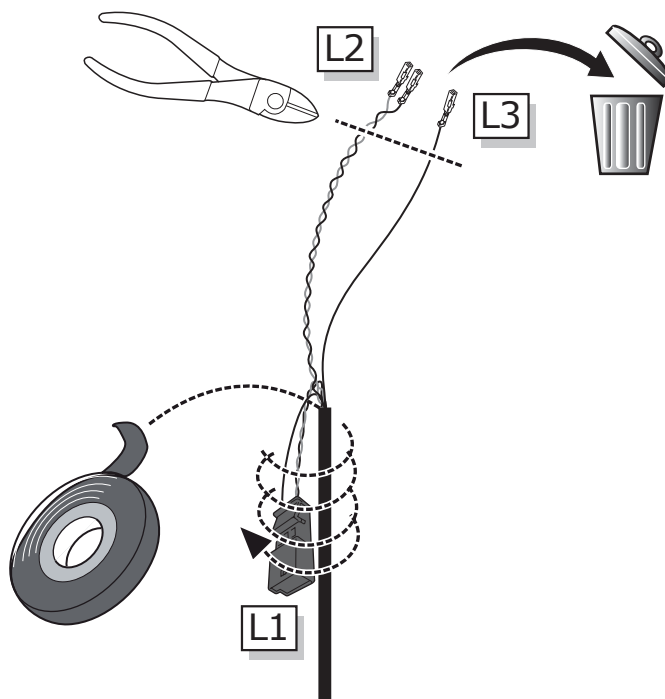
CANbus
OPTION A

Body Control Module



31

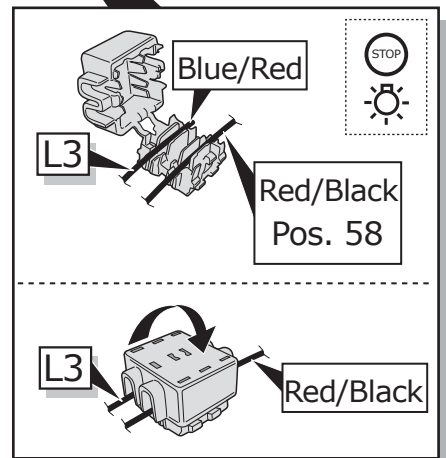
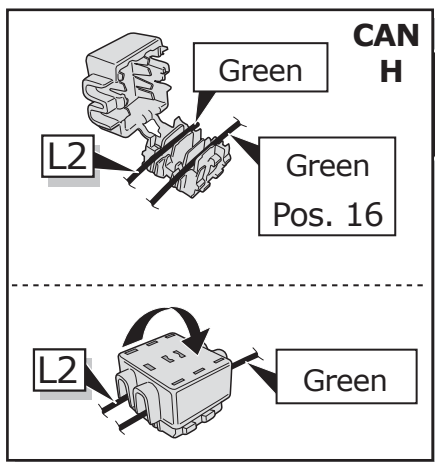
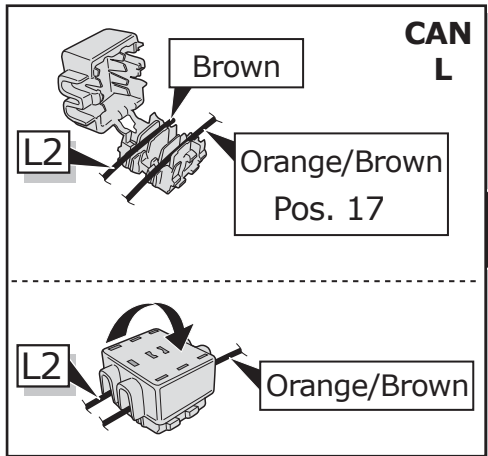
CANbus
OPTION B



32

CANbus OPTION B

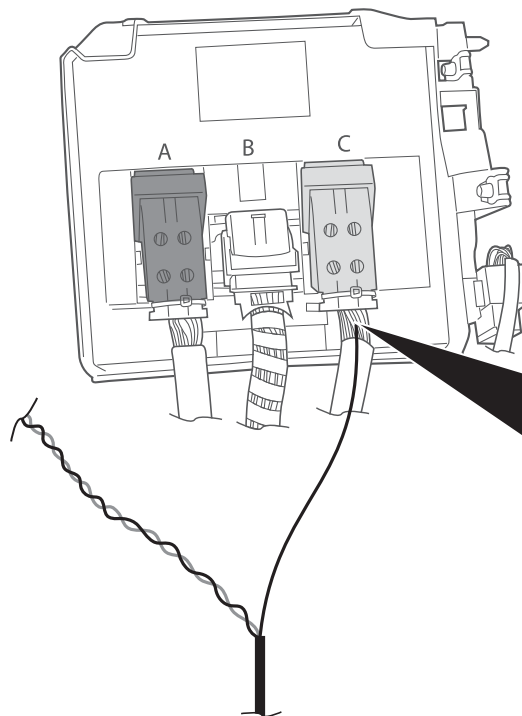
Body Control Module



33

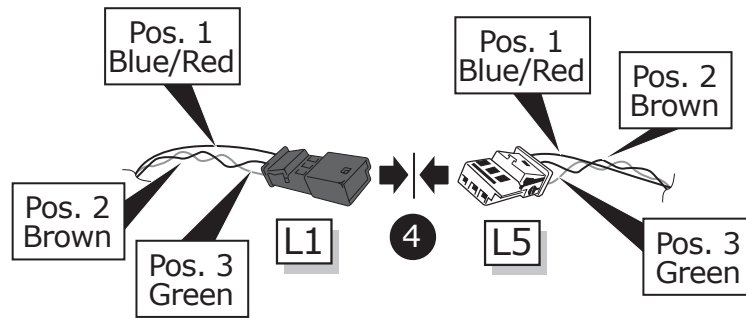
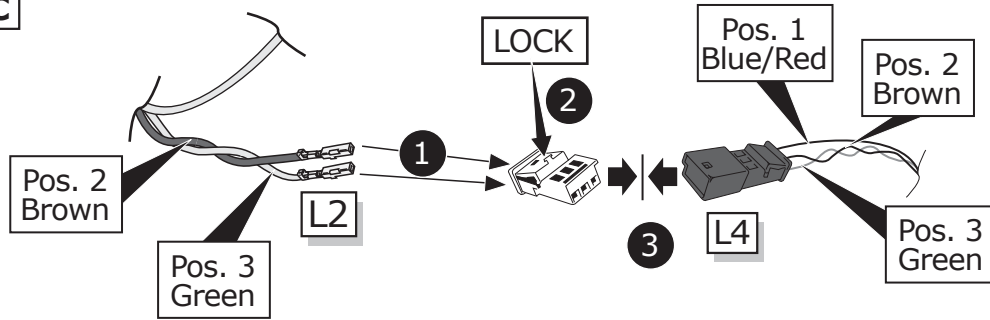
CANbus OPTION C

Body Control Module



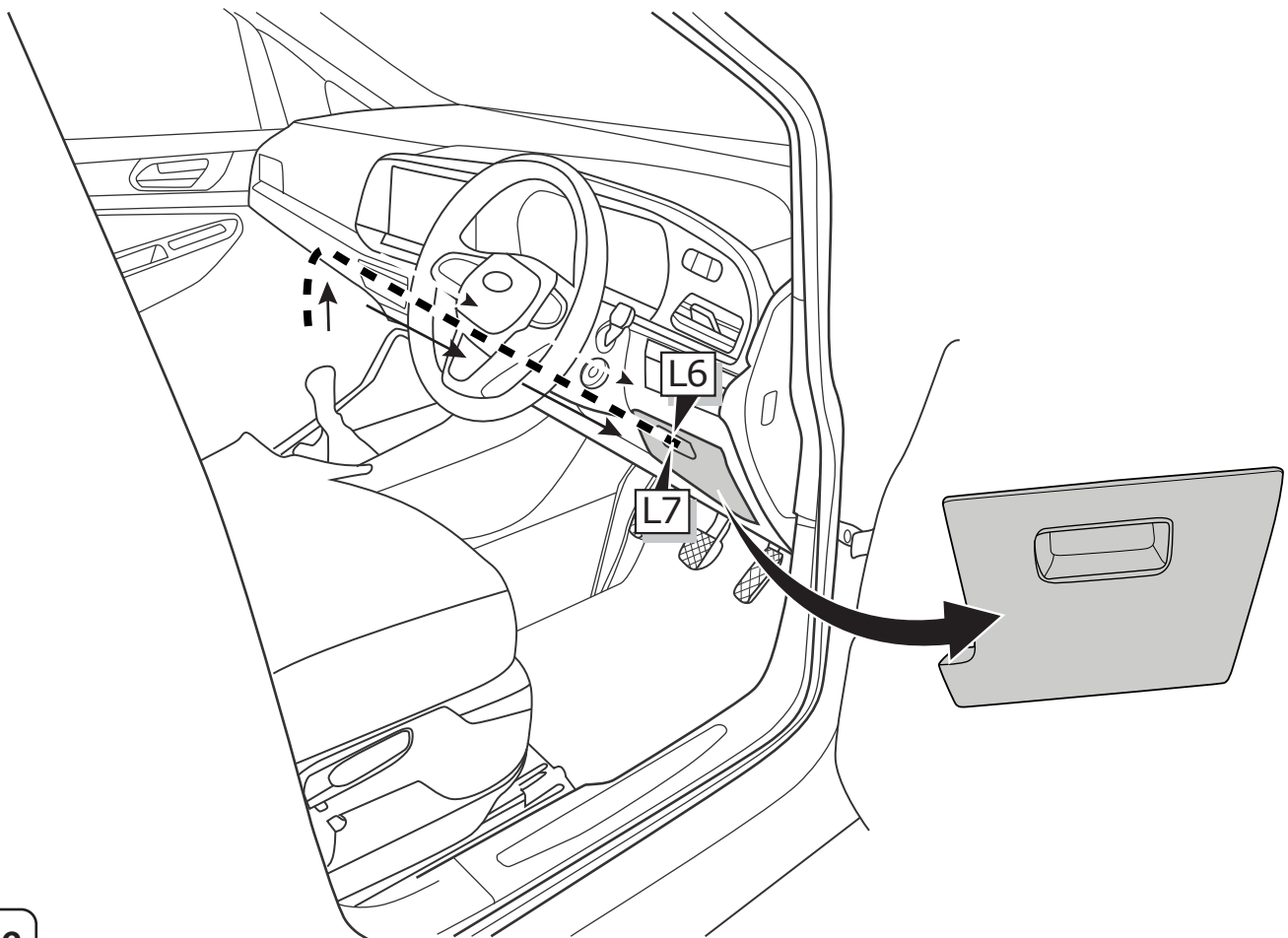
34

CANbus **OPTION C**



35

CANbus **OPTION C**

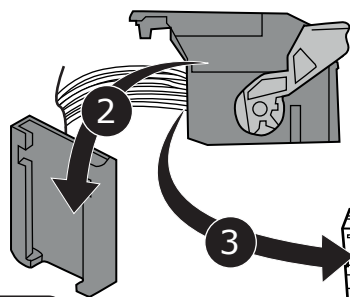
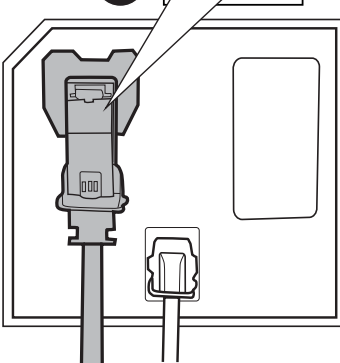
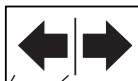


36

CANbus OPTION C

J533

1



37

CAN-Data Wire

CAN low
CAN high



Pos. 19

Pos. 20



38

Pos. 19

Pos. 20



39

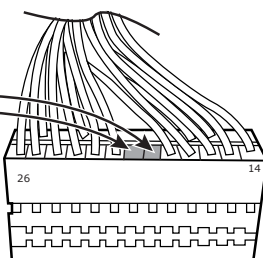
CANbus OPTION C

Green
Pos. 19

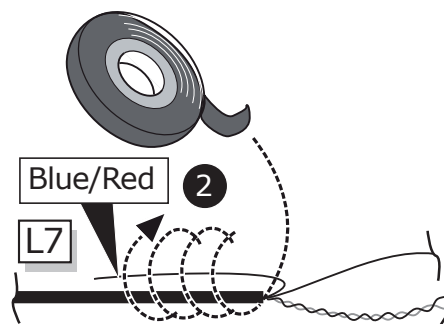
L7

Brown
Pos. 20

1



38

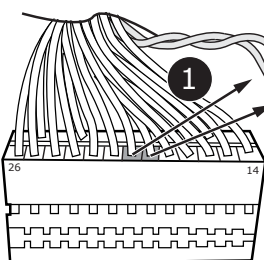


Blue/Red

2

L7

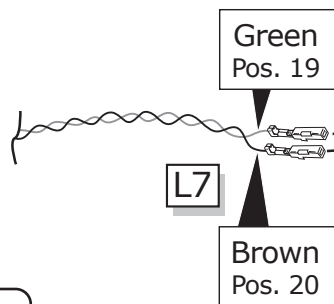
CANbus OPTION C



CAN
H Green
Pos. 19

CAN
L Orange/Brown
Pos. 20

39

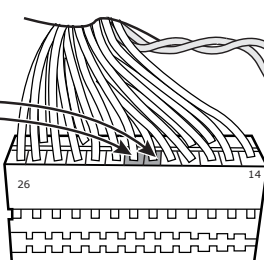


Green
Pos. 19

L7

Brown
Pos. 20

5



CAN
L Orange/Brown
Pos. 2

CAN
H Green
Pos. 3

4

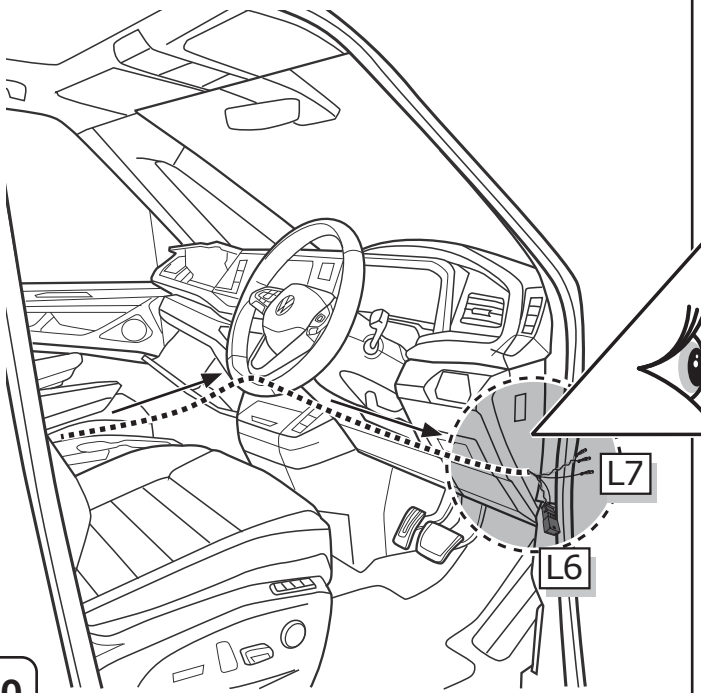
Pos. 1
Blue/Red

Pos. 2
Brown

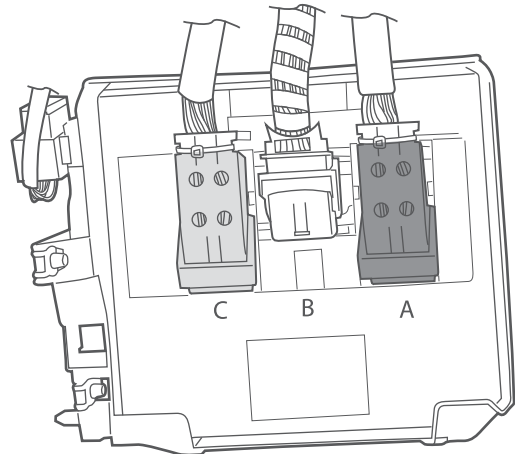
L6

Pos. 3
Green

VW T7 Multivan

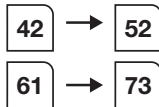


Body Control Module

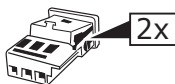


40

CANbus OPTION A

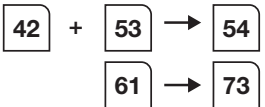


With
Avec
Mit

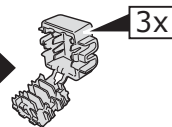


41

CANbus OPTION B



With
Avec
Mit



CANbus OPTION C



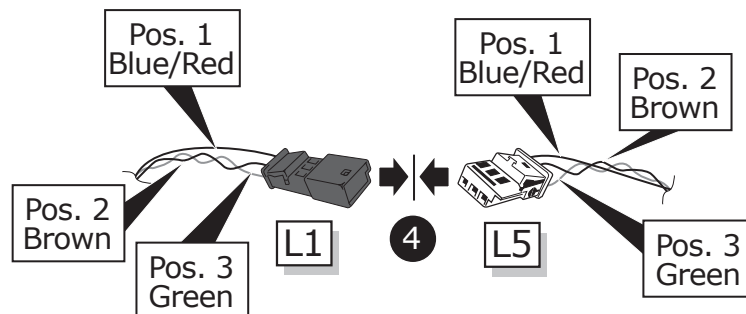
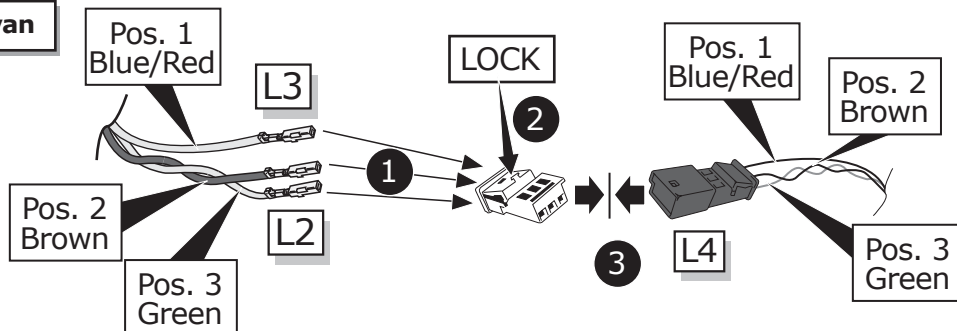
10th
S
Onwards

XXXXXXXXXX XXXXXXXXX

VW T7 Multivan

CANbus OPTION A

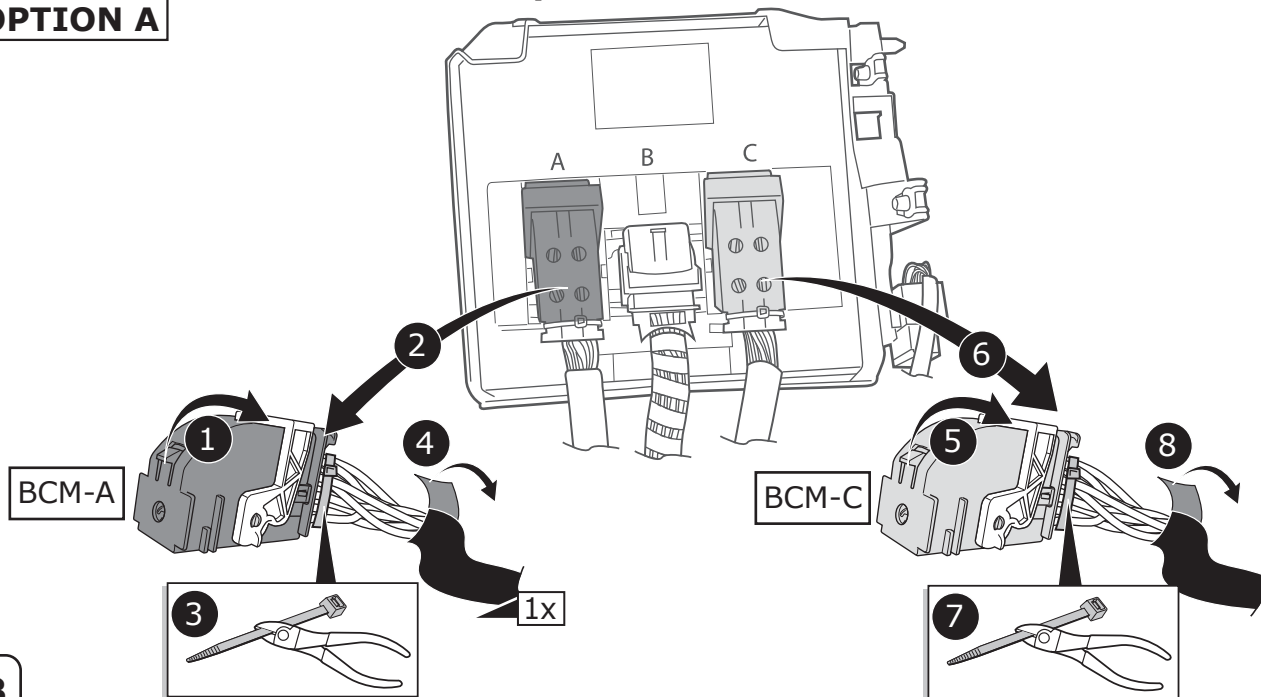
CANbus OPTION B



42

**CANbus
OPTION A**

Body Control Module

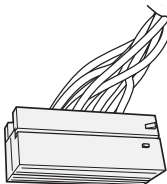
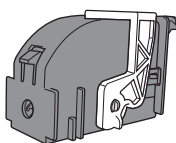
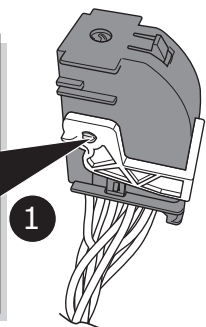
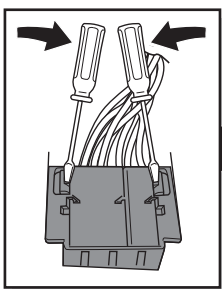


43

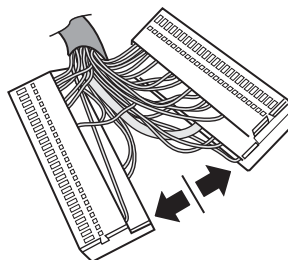
**CANbus
OPTION A**

BCM-A

2



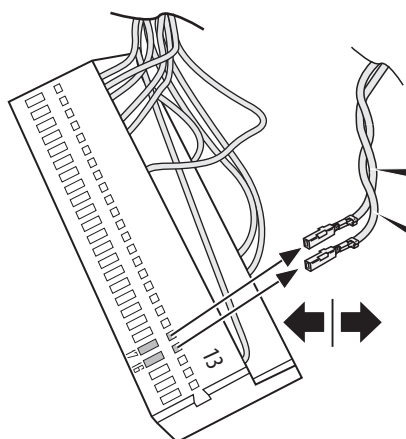
3



44

**CANbus
OPTION A**

BCM-A



**CAN
L**

Orange/Brown
Pos. 17

**CAN
H**

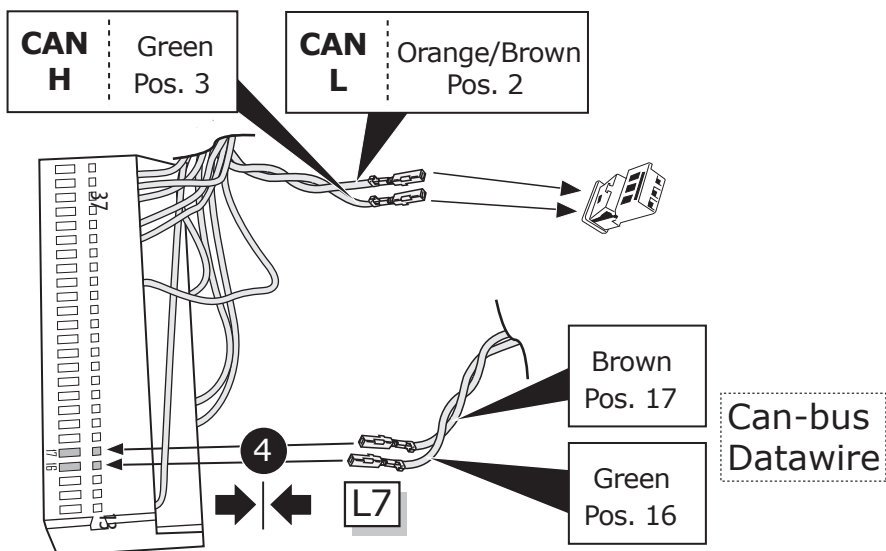
Green
Pos. 16

Can-bus
Datawire

45

**CANbus
OPTION A**

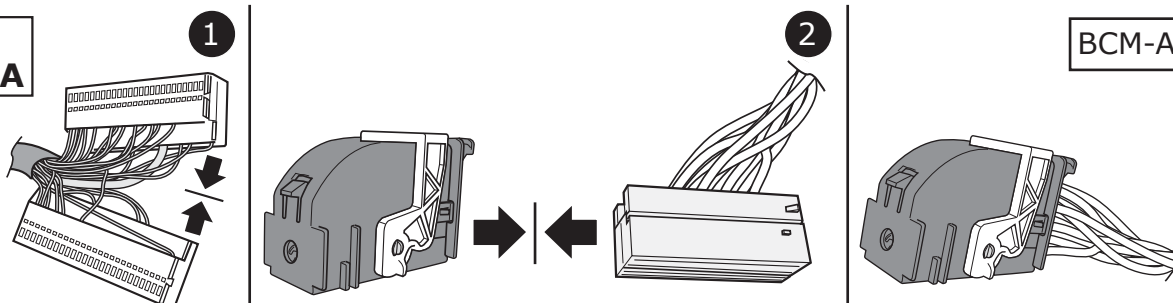
BCM-A



46

**CANbus
OPTION A**

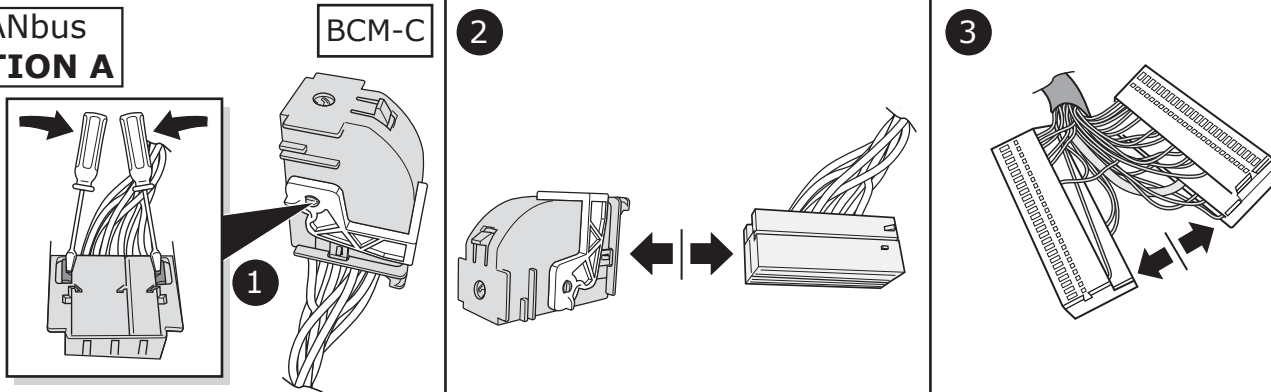
BCM-A



47

**CANbus
OPTION A**

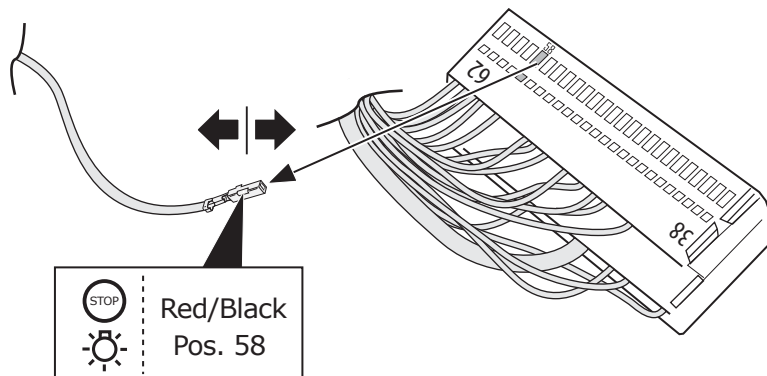
BCM-C



48

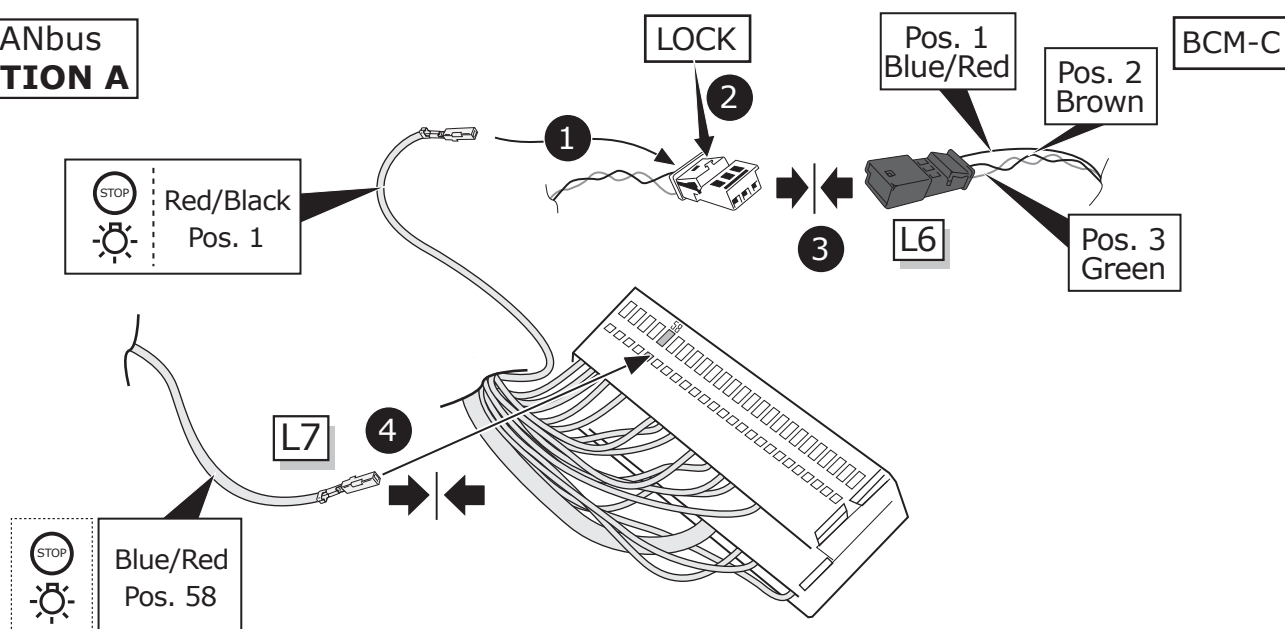
**CANbus
OPTION A**

BCM-C



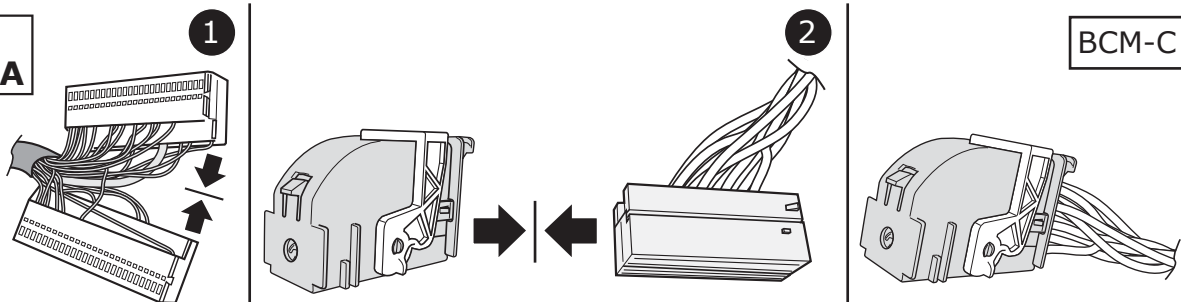
49

CANbus OPTION A



50

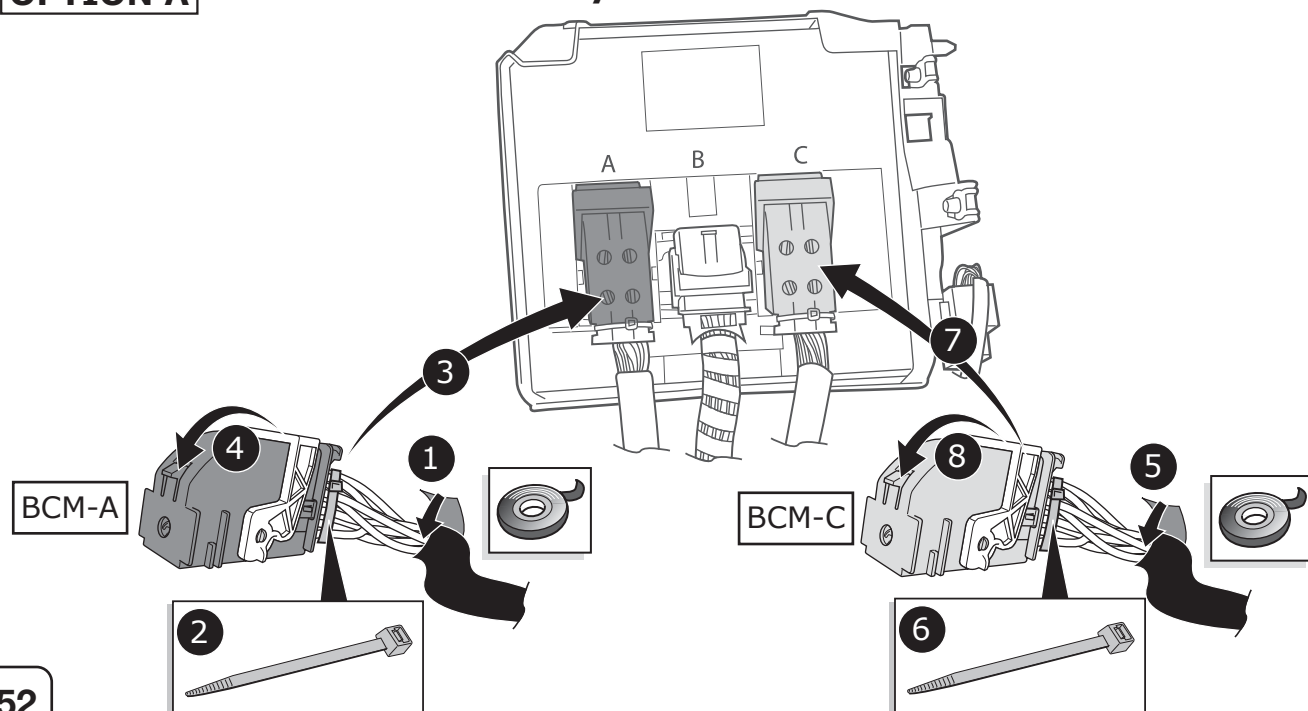
CANbus OPTION A



51

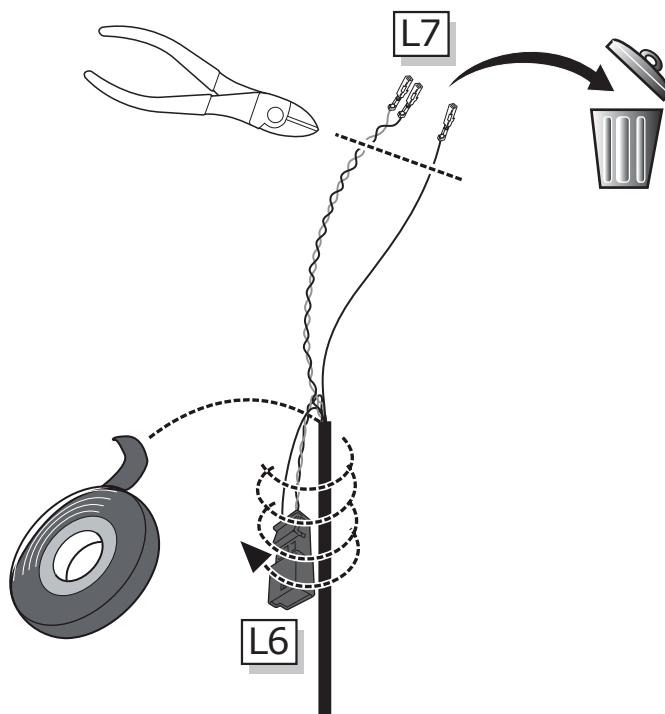
CANbus OPTION A

Body Control Module



52

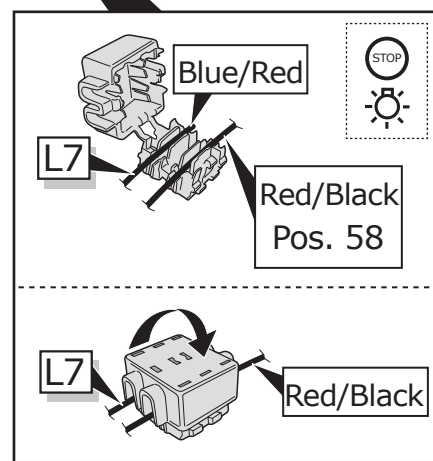
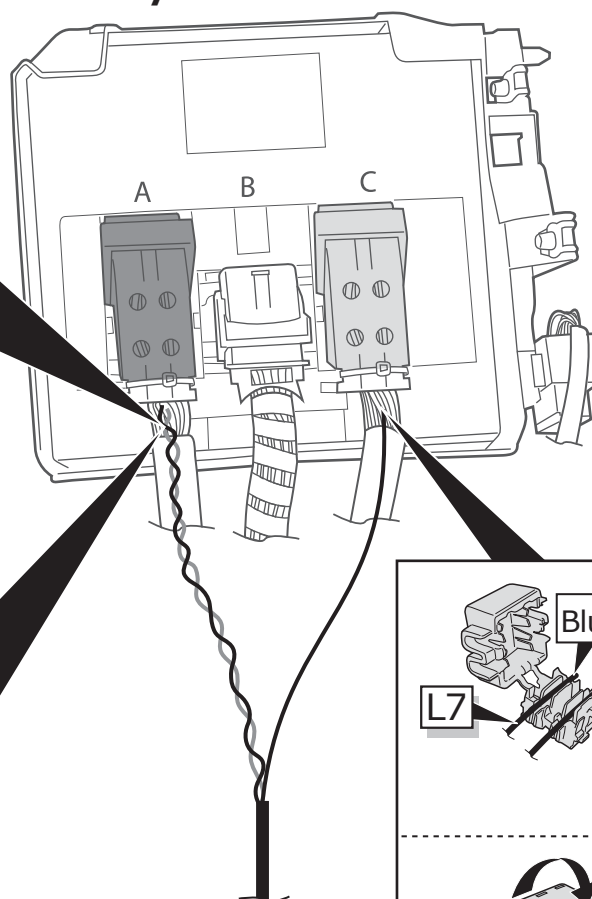
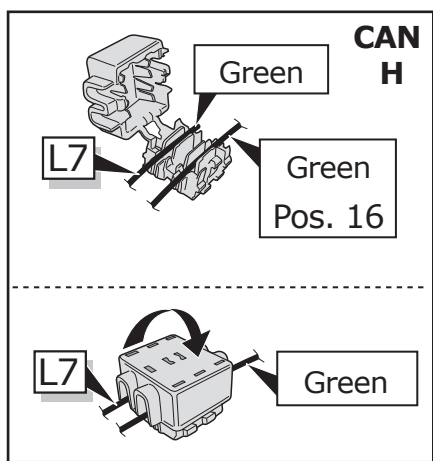
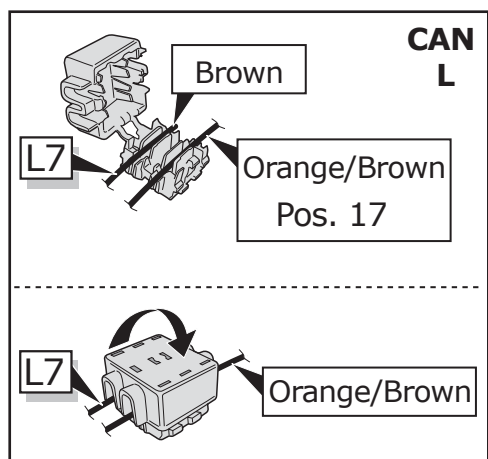
**CANbus
OPTION B**



53

**CANbus
OPTION B**

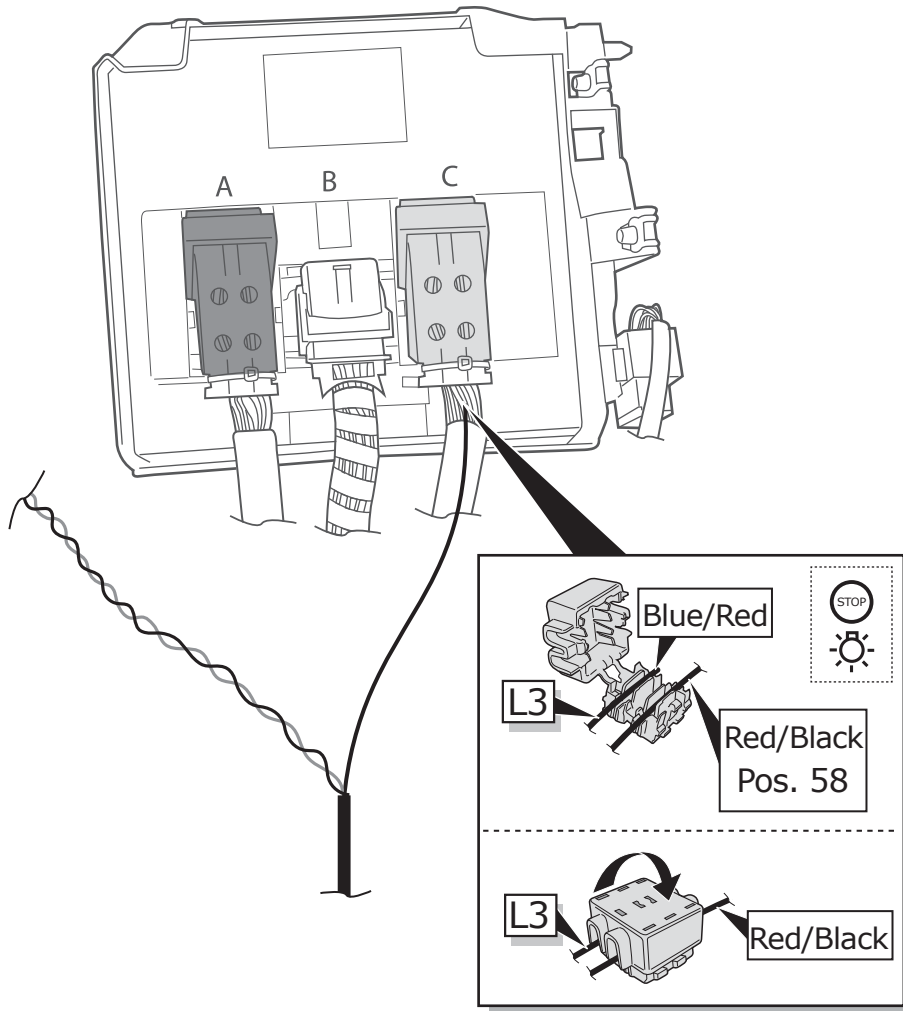
Body Control Module



54

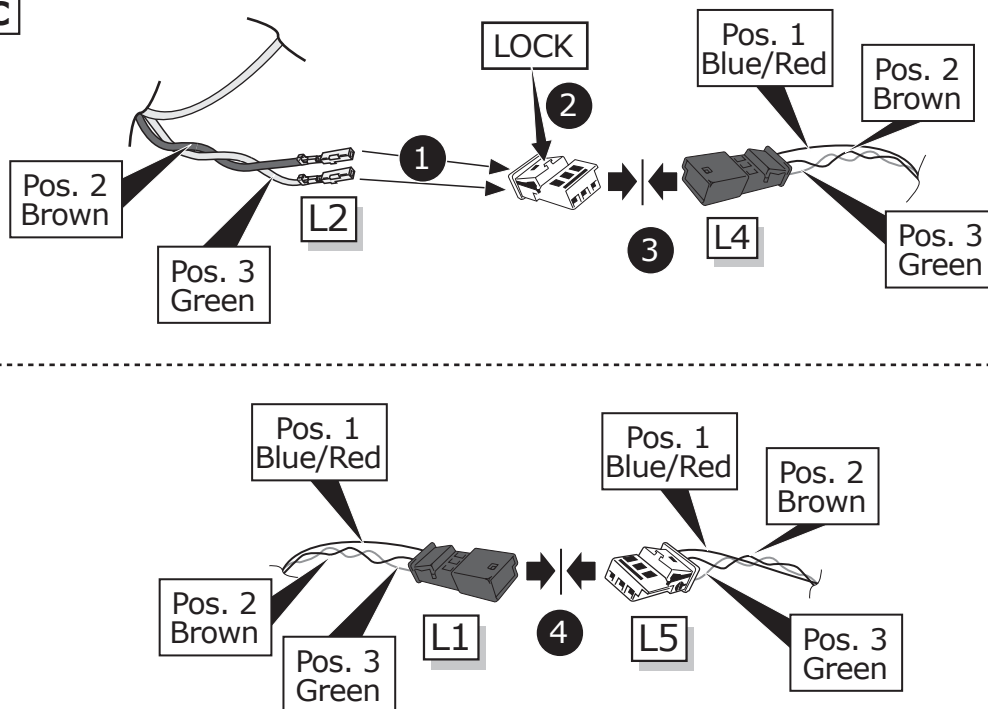
CANbus
OPTION C

Body Control Module



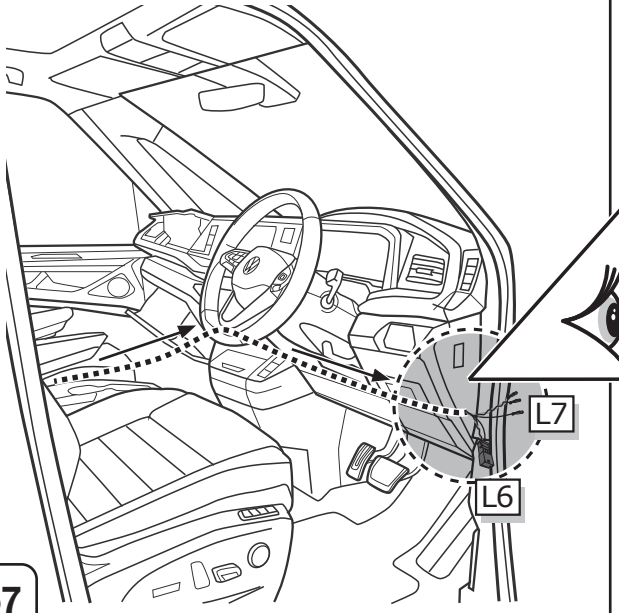
55

CANbus
OPTION C

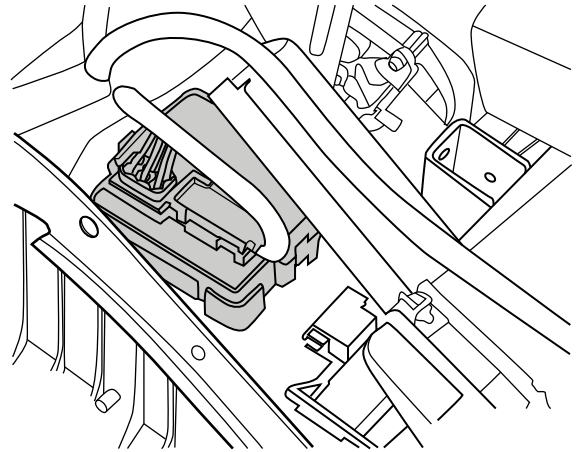


56

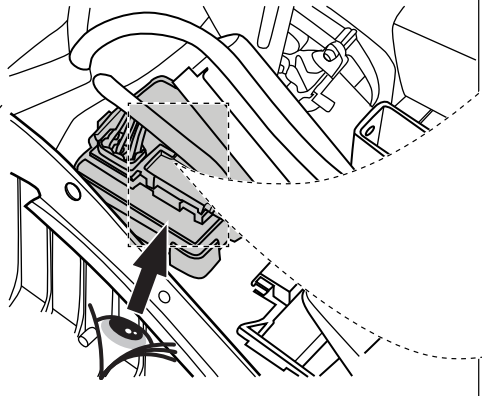
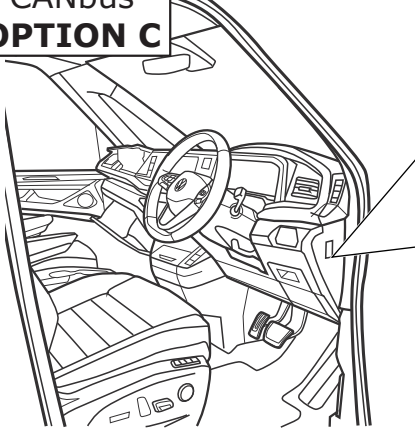
VW T7 Multivan



57

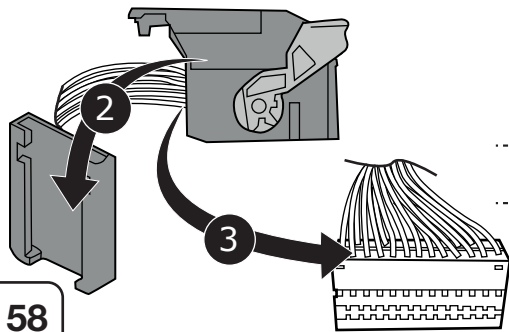
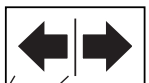


CANbus OPTION C



J533

1



58

CAN-Data Wire

CAN low
CAN high



Pos. 19

Pos. 20

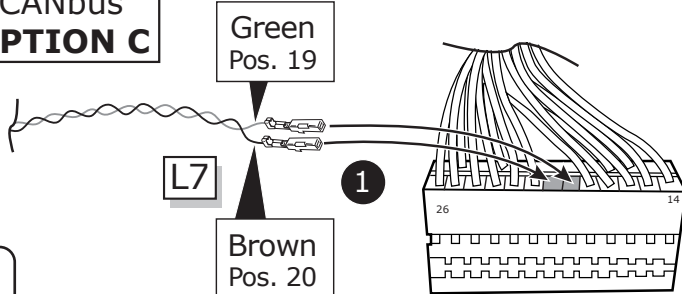


Pos. 19

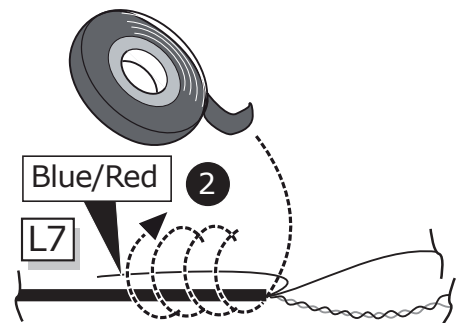
Pos. 20



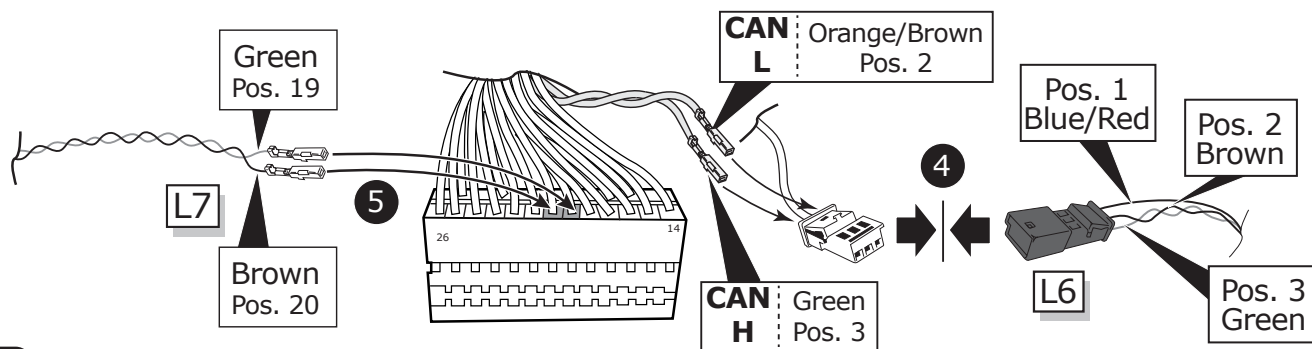
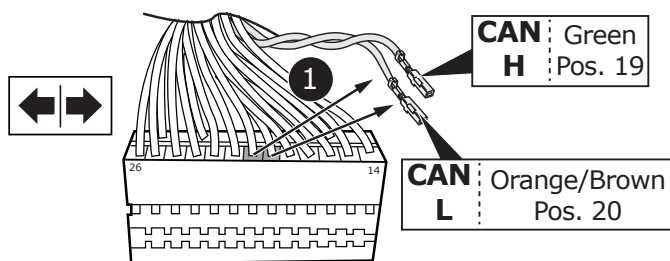
CANbus OPTION C



59



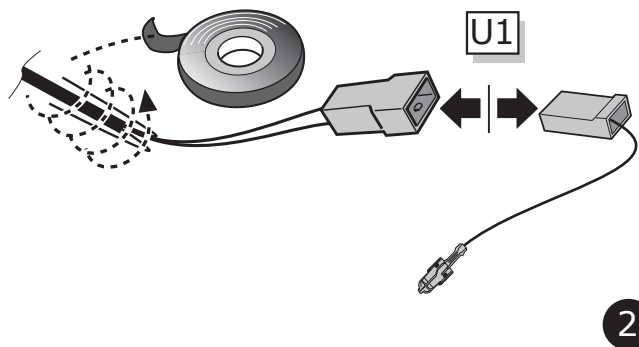
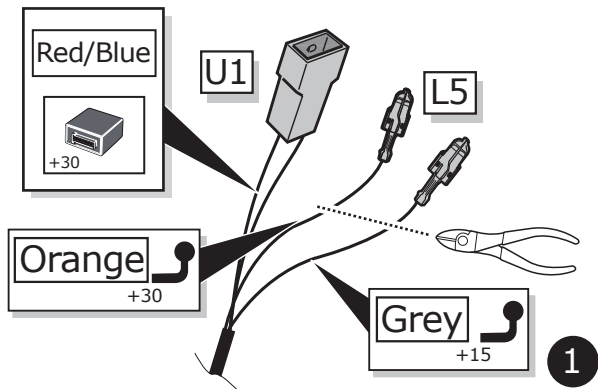
CANbus OPTION C



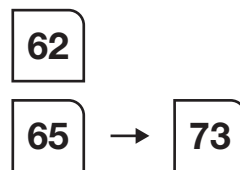
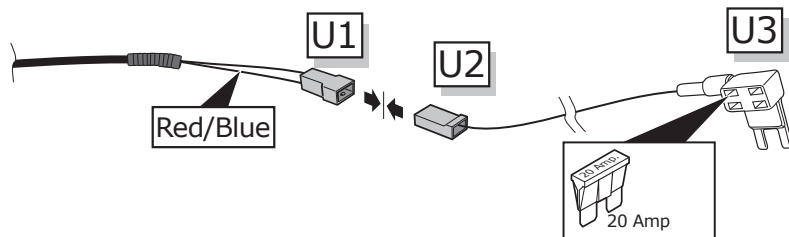
60

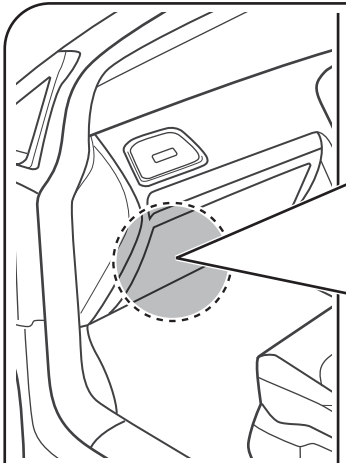
B+ /30 OPTION A

Only B+ /30 for module needed!

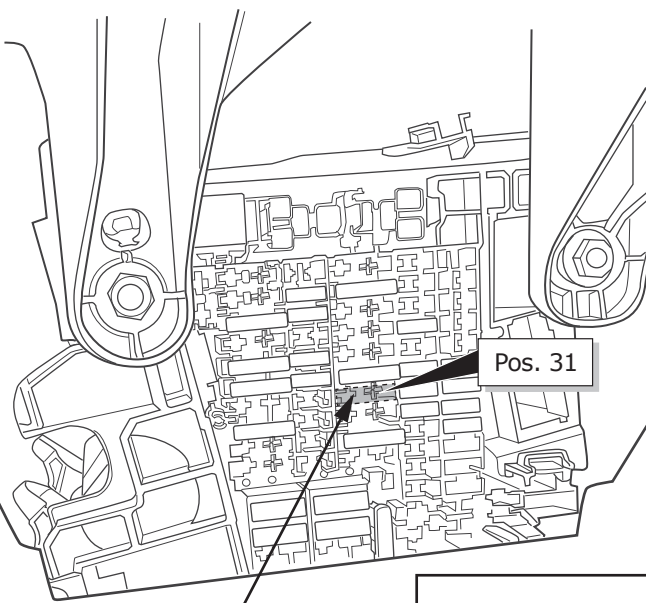


61

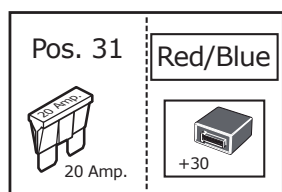




B+/30 OPTION A



Pos. 31



Pos. 31

Red/Blue



20 Amp.



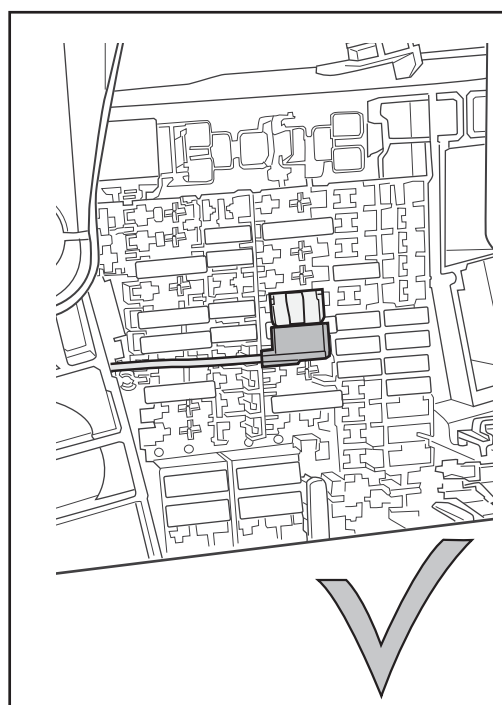
+30

U1

U3

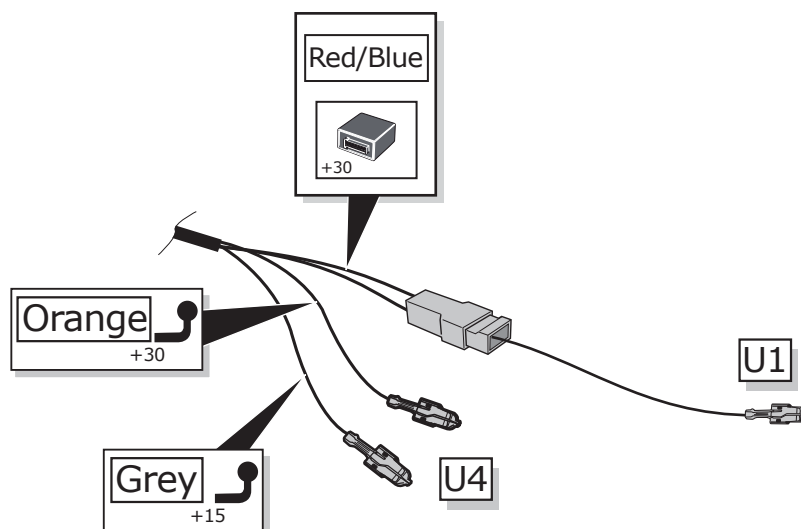


Important!
Please do not mount the
fuse tap and its wiring output
in the other direction!



62

B+/30 OPTION B



Red/Blue

+30

Orange

+30

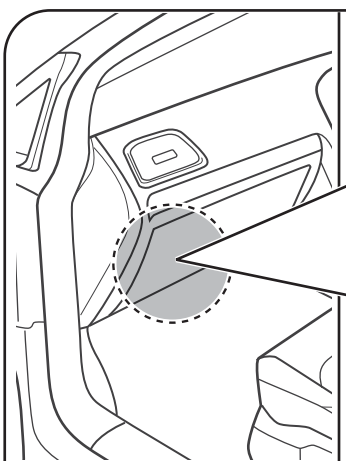
Grey

+15

U4

U1

63

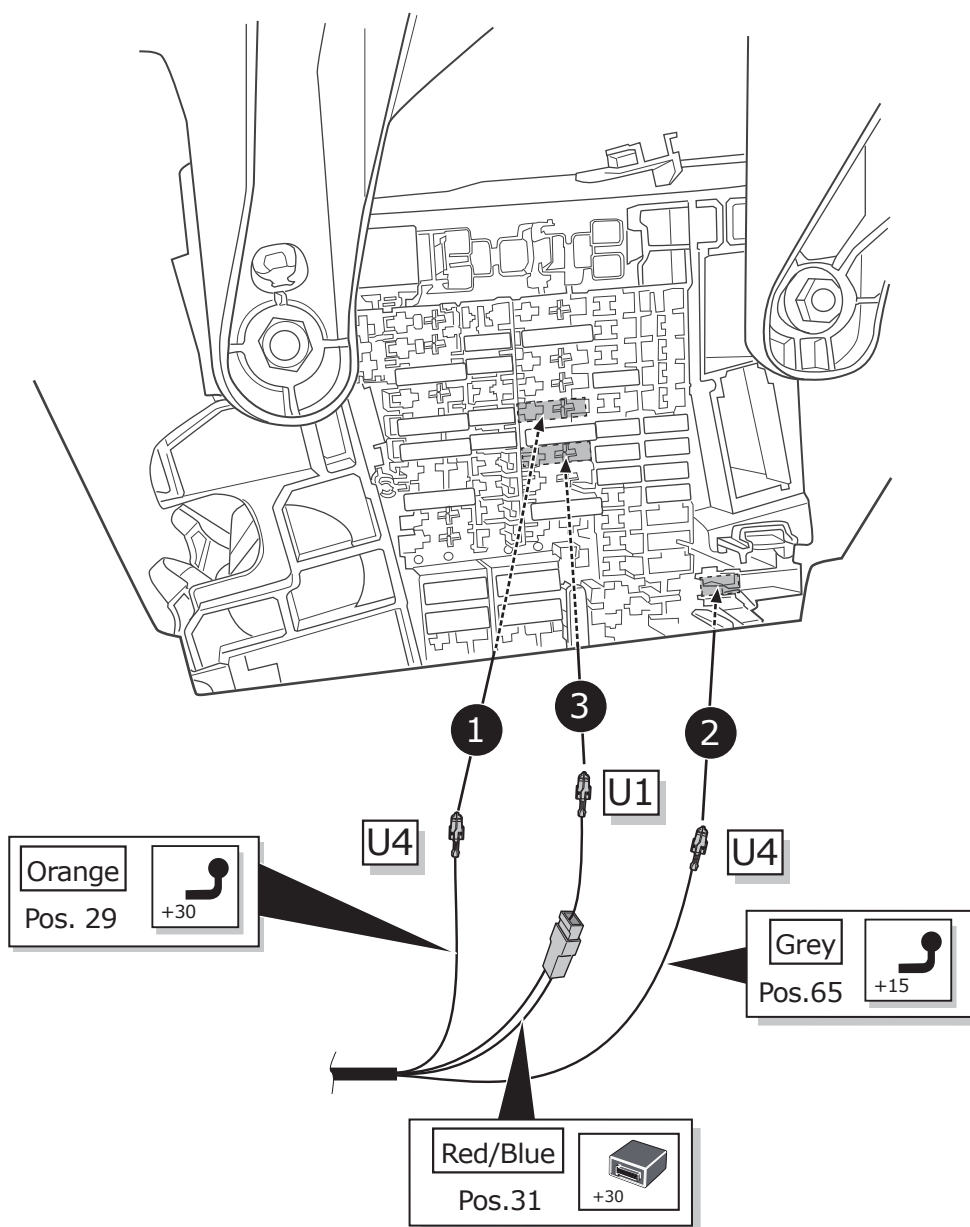


B+/30 OPTION B

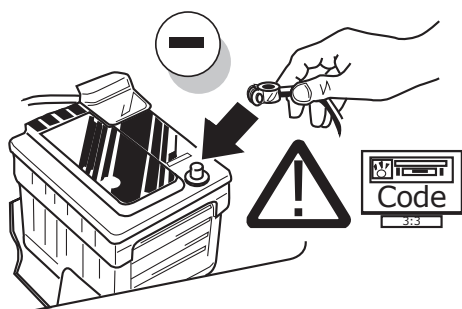
Pos. 29	Orange
 15 Amp.	 +30

Pos. 65	Grey
 15 Amp.	 +15

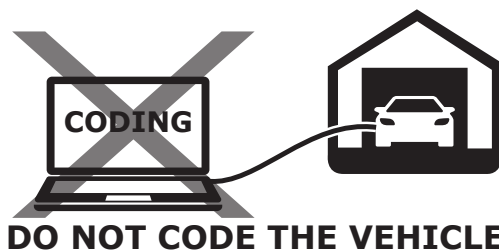
Pos. 31	Red/Blue
 20 Amp.	 +30



64



65



66

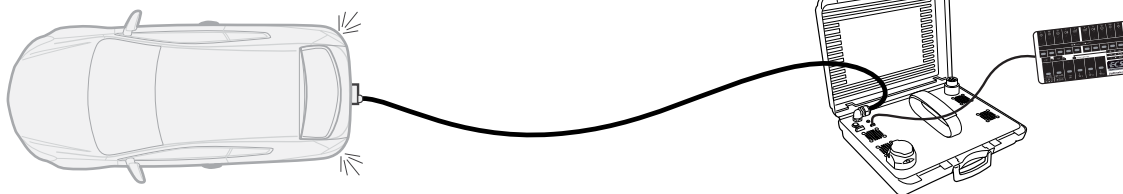
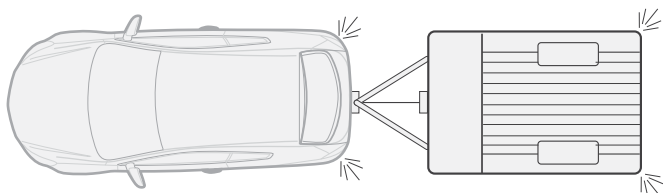
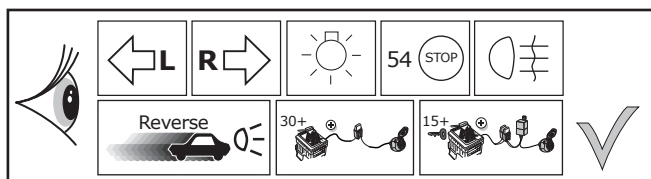
Optional



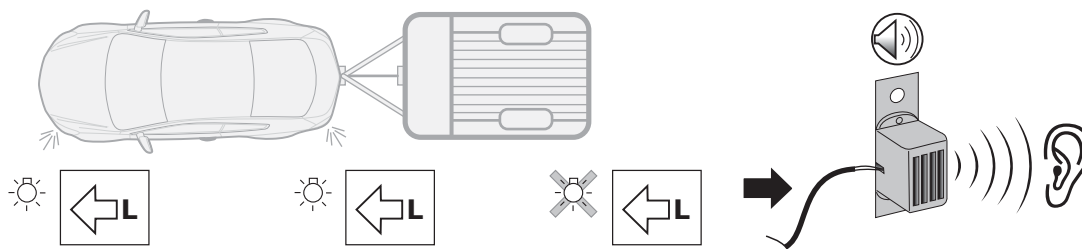
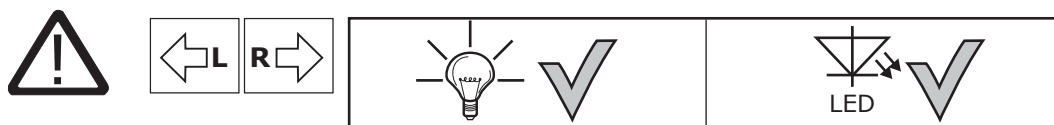
Trailer Simulator for 7- and 13-pin Sockets

67

Functional test



68



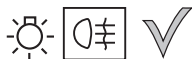
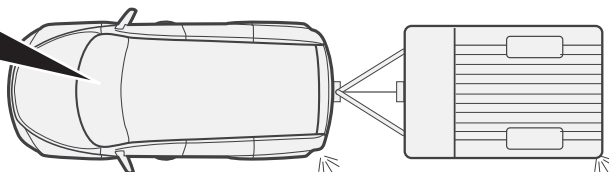
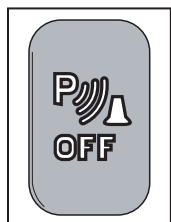
69



Rear fog light cut-off is not supported!



PDC to be deactivated manually!



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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!

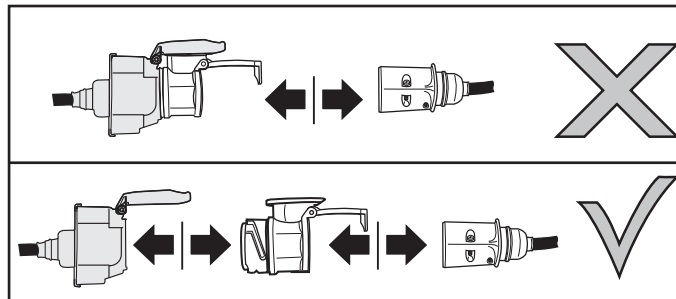
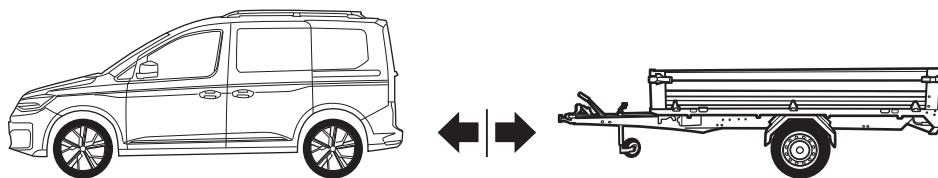
INFO

Optional

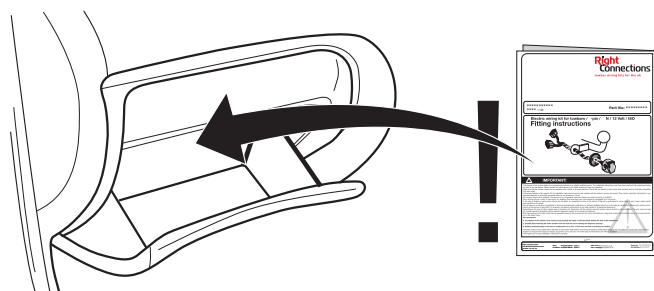
Adapter socket



71

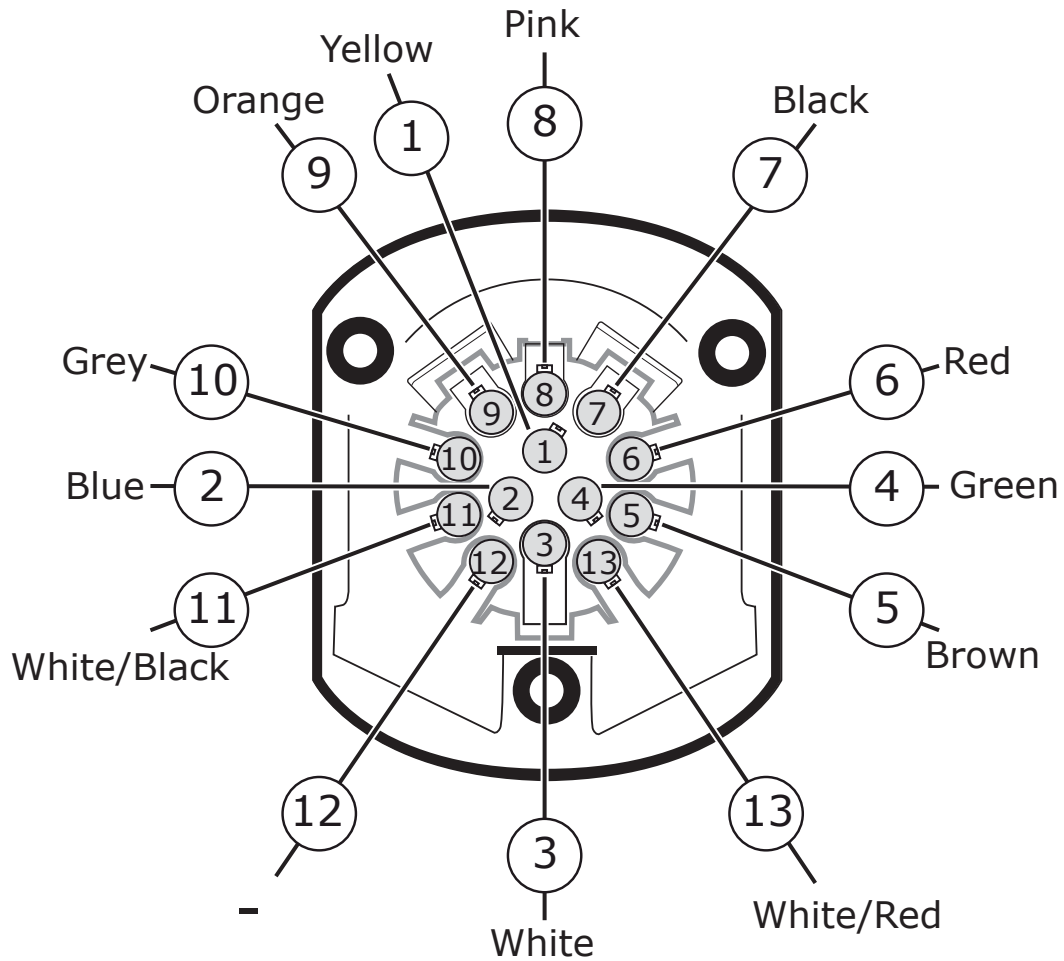
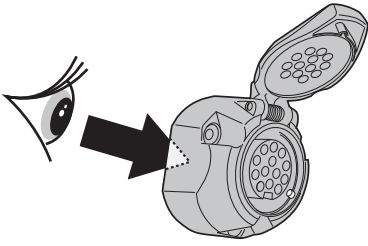


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SOCKET CONNECTION



SOCKET CONNECTION

DIN/ISO 11446													
	1/L	2	3/31	4/R	5/58-R	6/54	7/58-L	8	9	10	11	12	13
Pmax	21W	21W		21W	42W	3x21W	42W	21W	240W	180W			
Colour	Yellow	Blue	White	Green	Brown	Red	Black	Pink	Orange	Grey	White/ Black	-	White/ Red