ECS ELECTRONICS

AUDI

A4 Saloon 11/15 >>	A5 Coupé 10/16 >>	
A4 Avant 11/15 >>	A5 Sportback 01/17 >>	**Part No: AU-068-13MU**
A4 Allroad 07/16 >>	A5 Cabriolet 03/17 >>	

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

TECHNICAL SUPPORT

CALL 07440 202 052

MONDAY TO FRIDAY
08.00 - 11.00 am
12.00 - 05.00 pm
ukts@ecs-electronics.com
www.ecs-electronicsuk.co.uk
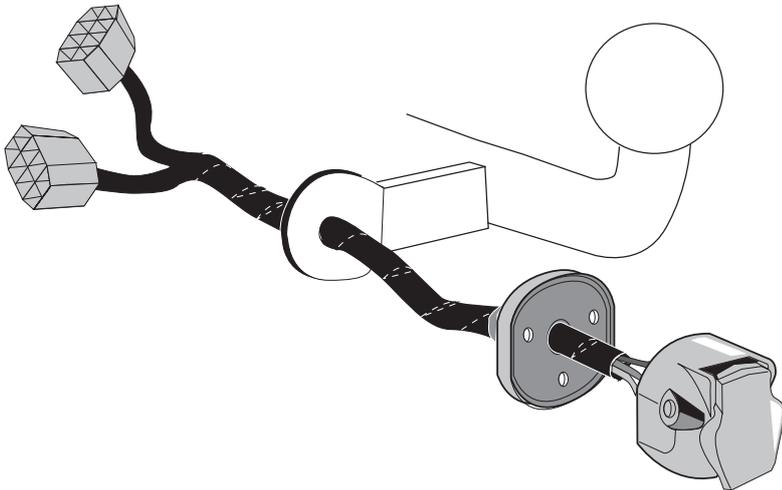
⚠ IMPORTANT!

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.
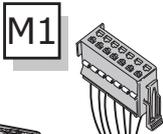
All of the data and illustrations may not be an exact representation but the text contained in this instruction must be observed!
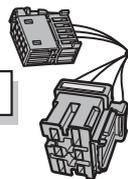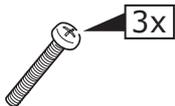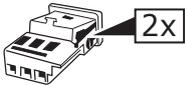
5x

M

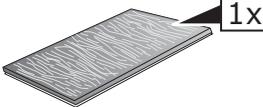M1

R1

R

B

U

L2

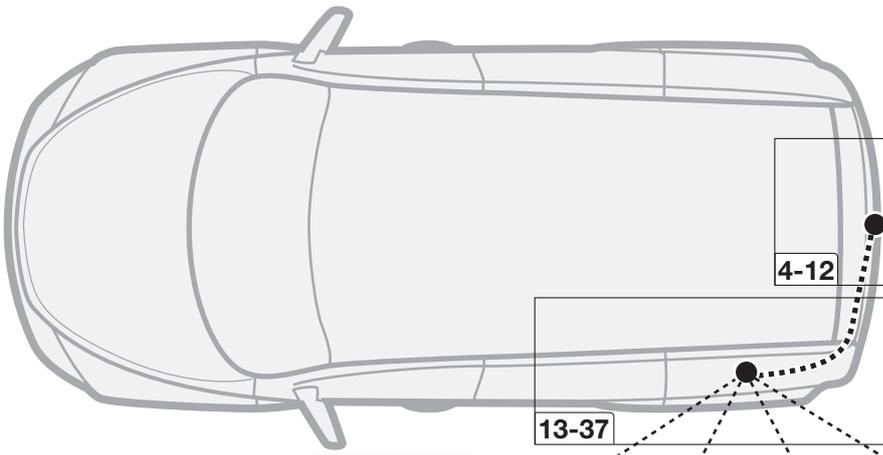L1

L4

L3

A
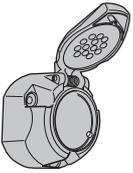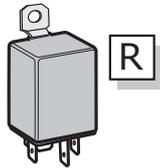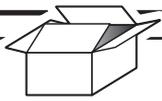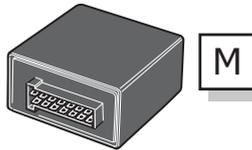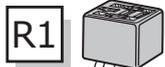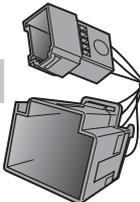
T

X

G

3x

3x

3x

2x
15 Amp.

1x
20 Amp.

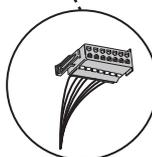2x

2x

1x

10x

4-12
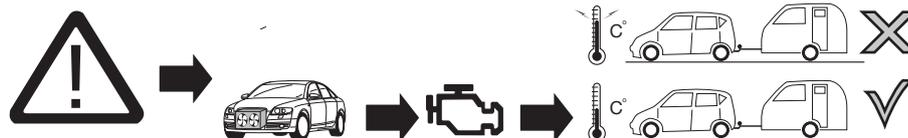
13-37

Optional

SYMBOL EXPLANATION
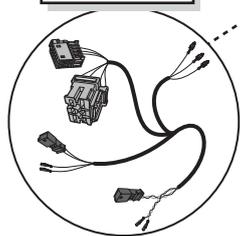
Symbol	Description	Symbol	Description
	Left (58-L) respectively Right (58-R) tail light	12V	Cigarette lighter / accessory socket
54 STOP	Stop light (54) / high mounted, third stop light (54)		Loudspeaker / buzzer
L	Turn signal indicator left		Park Distance Control
R	Turn signal indicator right		Switch / source of function
	Rear fog light(s)		Connect together
Reverse	Reversing light(s)		Disconnect
30+	Permanent power supply / 13pin socket, chamber 9		Look at / See further information
15+	Charging wire for trailer battery / 13pin socket, chamber 10		Look carefully at selected area
	Trailer / trailer recognition	V	Present / Occupied / OK
B+/30	Permanent current power supply	X	Not present / Not occupied / Not OK
	Ground or Earth (31)		Acoustic indication
−	Ground connection battery terminal lug	!	Attention / important advice
+	Positive connection battery terminal lug	20 Amp.	Fuse / fuse capacity 20 Ampère

TOOLS
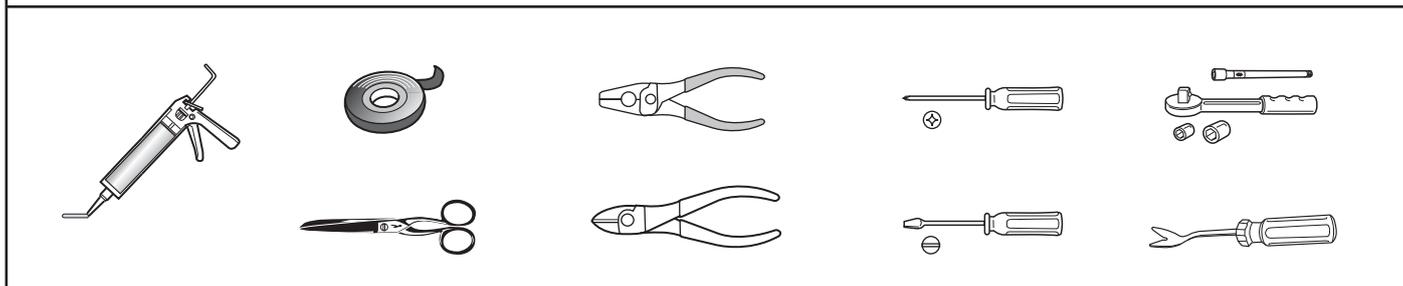
ATTENTION! The vehicle's cooling capacity may have to be increased when retrofitting a trailer coupling! You must observe the manufacturer's instructions!!
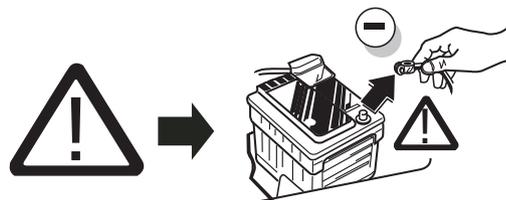
Note: It may be necessary to check if this vehicle has a stored radio code before disconnecting the battery!

Code

ATTENTION!

1

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!

A4 Saloon
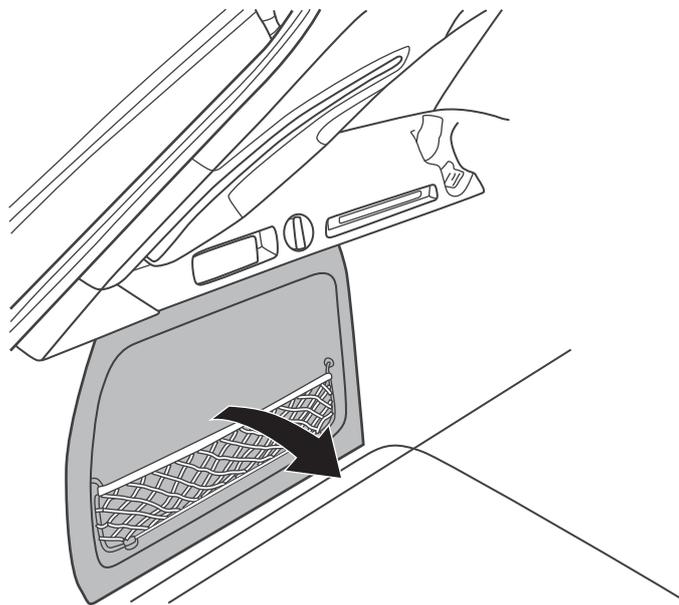
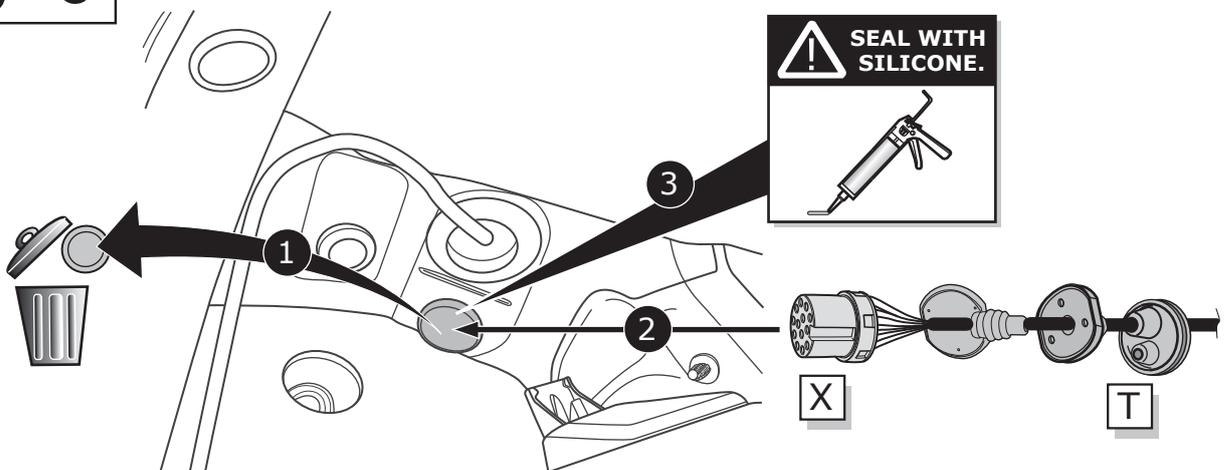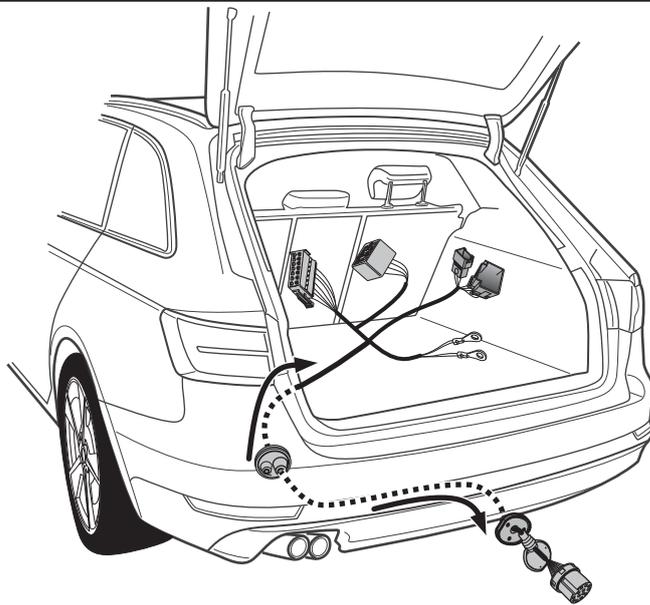**A5**
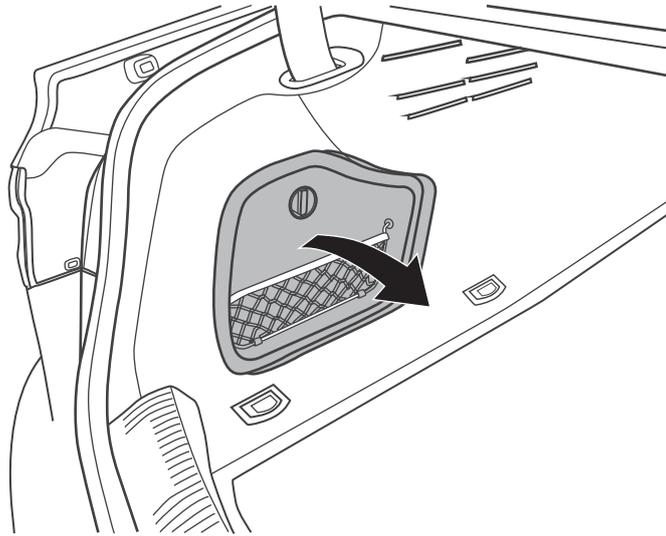
2

A4 Avant

A4 Allroad

3

⚠ **SEAL WITH SILICONE.**

X

T

4

5

6

X

7

Option 1

Option 2

8
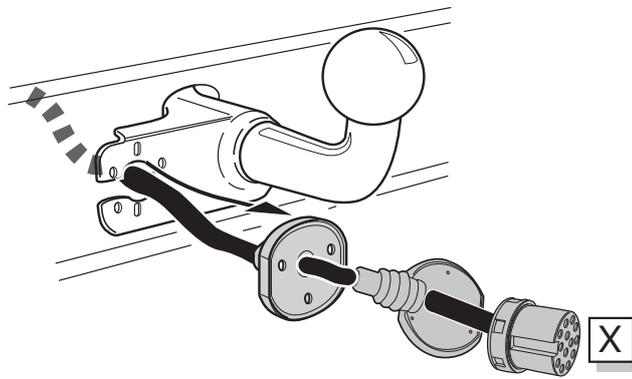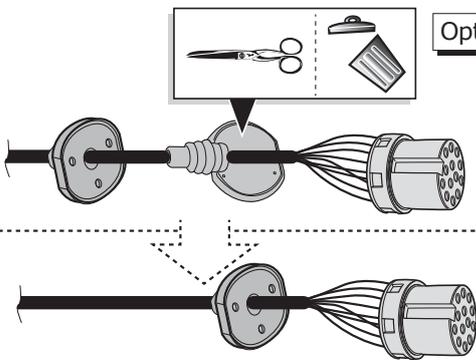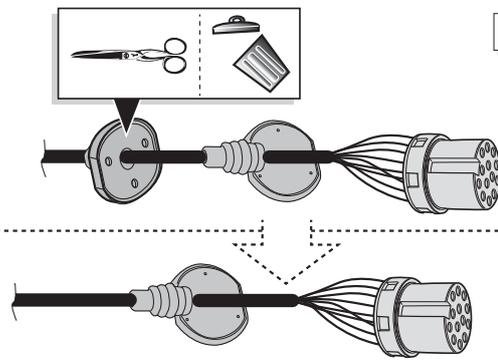
SOCKET CONNECTION

Page 20

9

X

10

Option 1

X

11

Option 2

① ② ③

12

Option 2

① ② ③

13

14

15

A4

16

1 → 10 mm

2 → G⏚

A5

1 → 10 mm

2 → G⏚

17
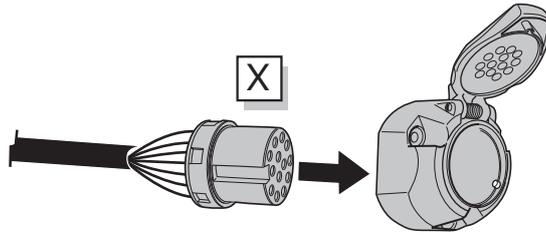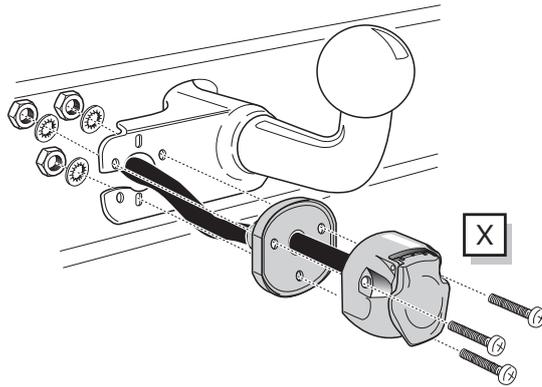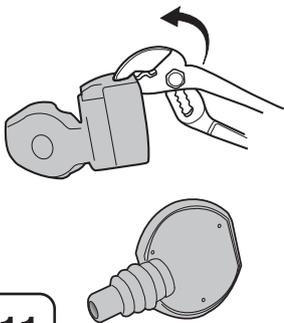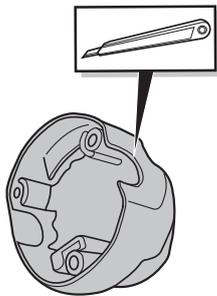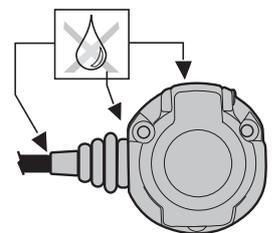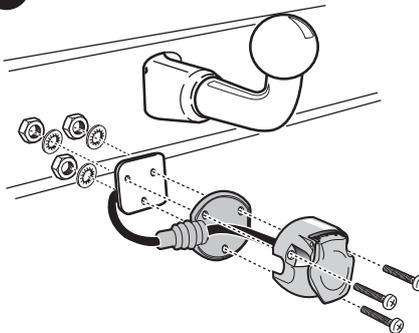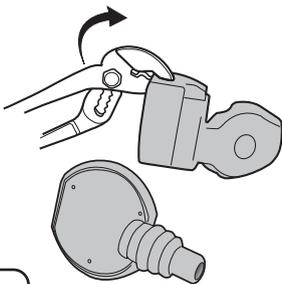
Prepared Trailer Connector
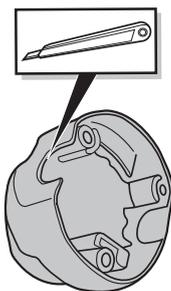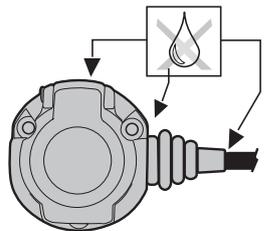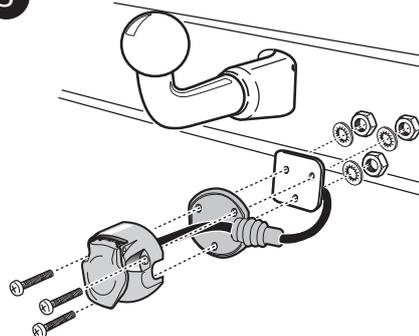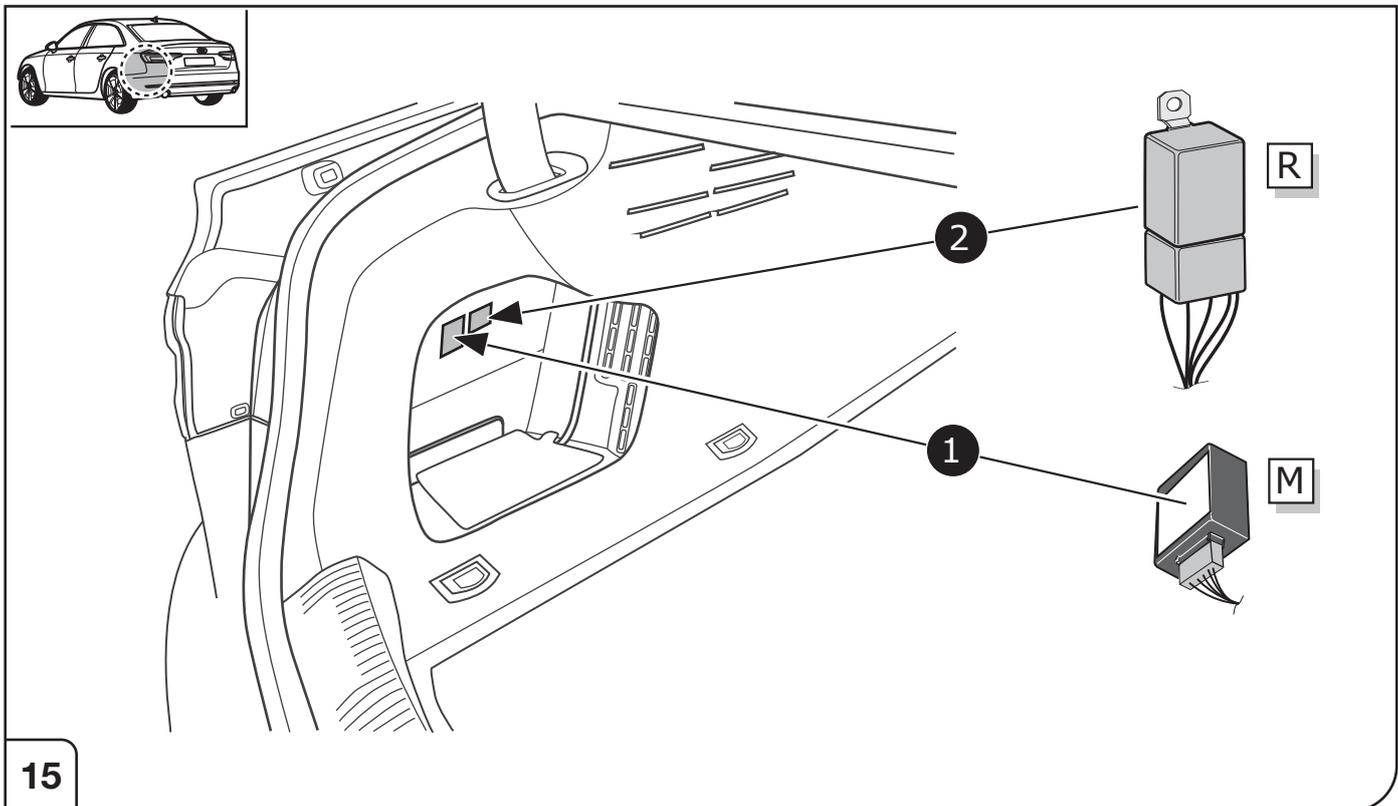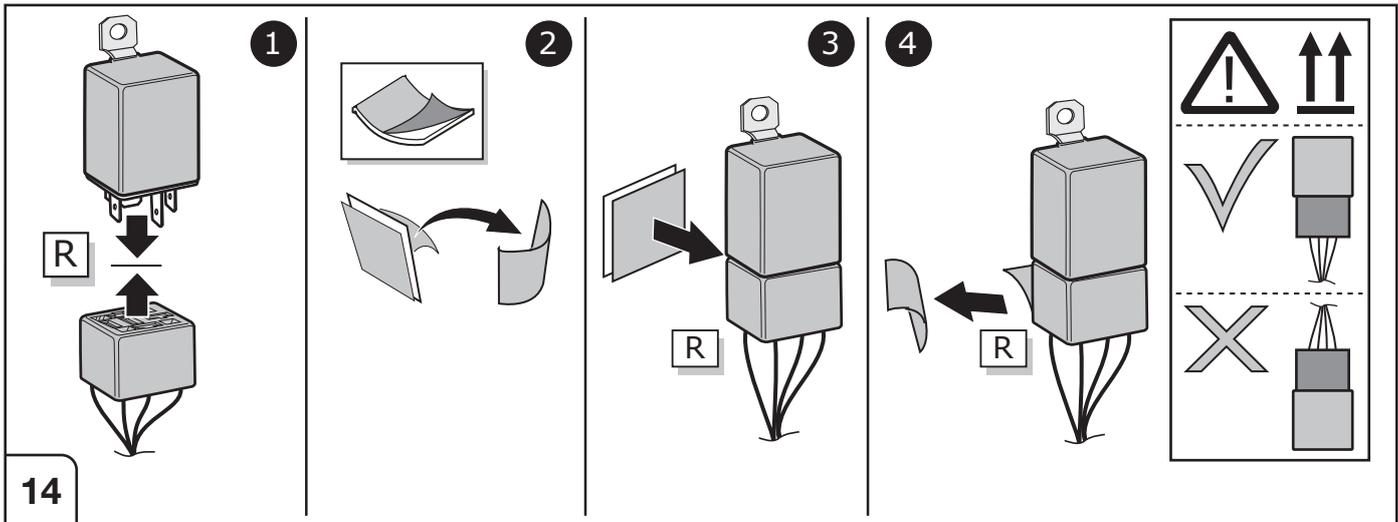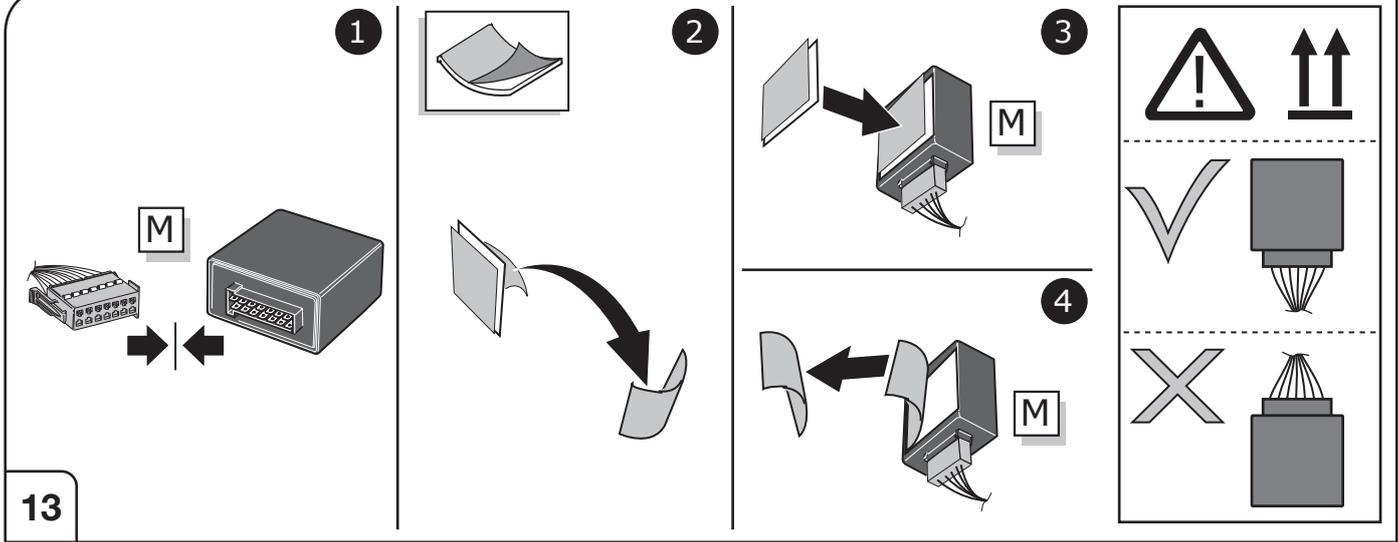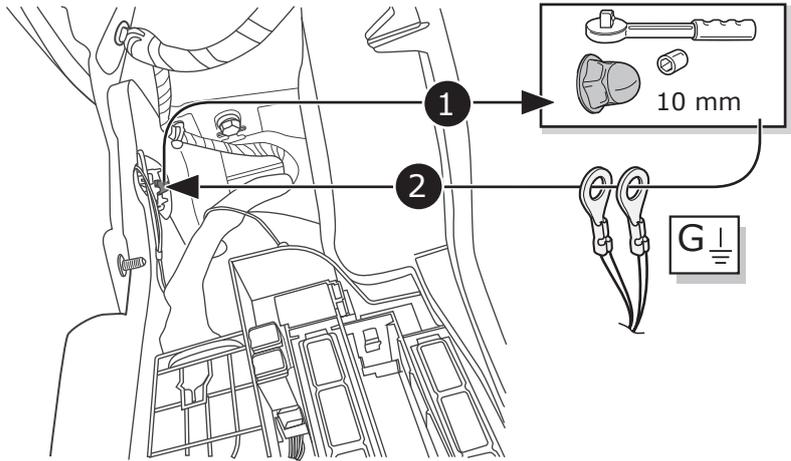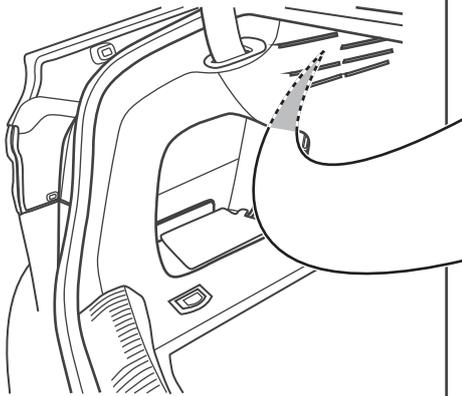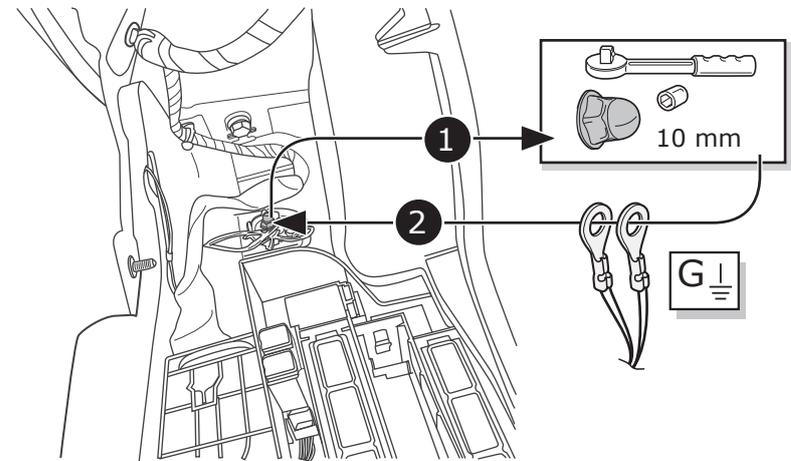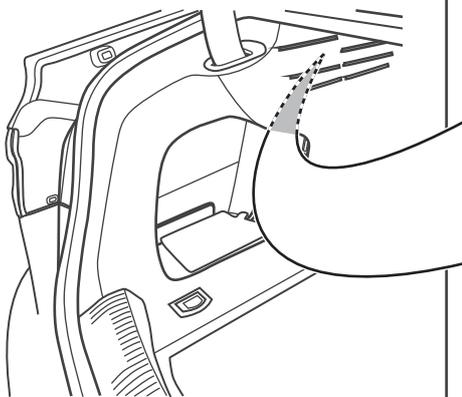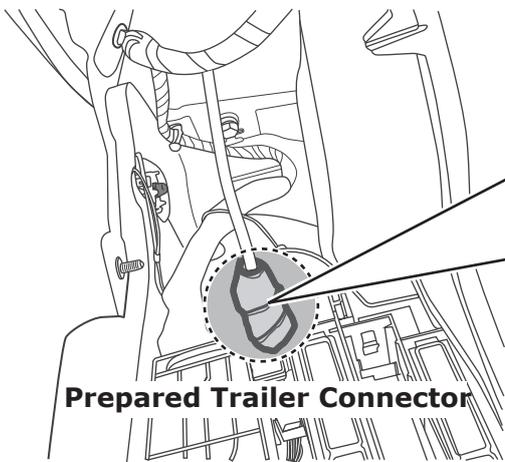
Vehicles with trailer preparation

Black 10 pin

Black/Violet 6 pin

✓

👁 → | 18 → 20 |
        +
       | 38 → 47 |
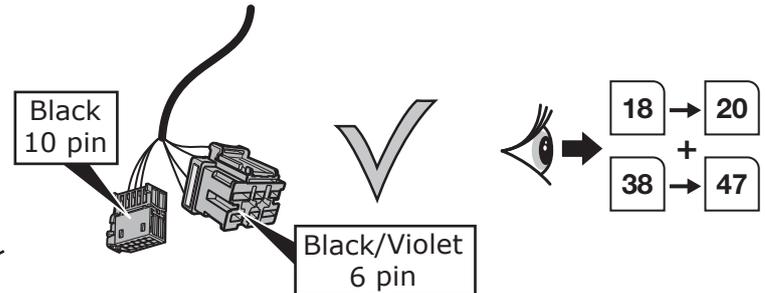
Vehicles without trailer preparation

Black 10 pin

Black/Violet 6 pin

✗

👁 → 21 → 47

Black 10 pin

1

A

Black/Violet 6 pin

2

3

① ② ③

4

18

A4

A5 Coupé

A5 Sportback

A5 Cabriolet

Fusebox ST3
Red

Fusebox ST3
Red

Fusebox ST3
Red

19

20

Fusebox ST3
Red

20 Amp.
20 Amp.
Pos. 5

15 Amp.
Pos. 8
15 Amp.

Pos. 9
15 Amp.

21

Black
10 pin

B

Black/Violet
6 pin

A

1

2

3

22
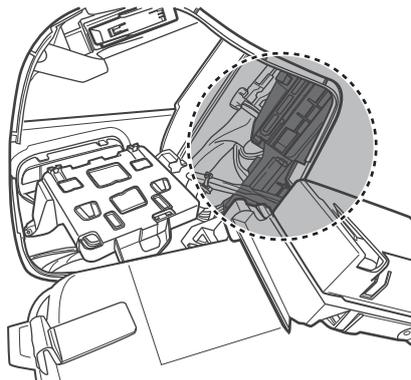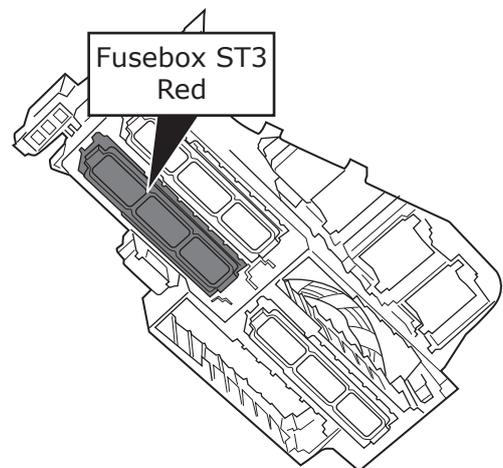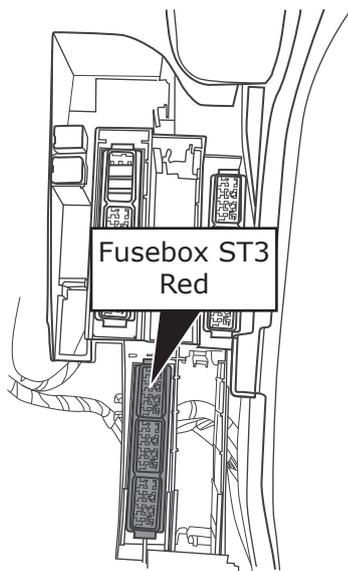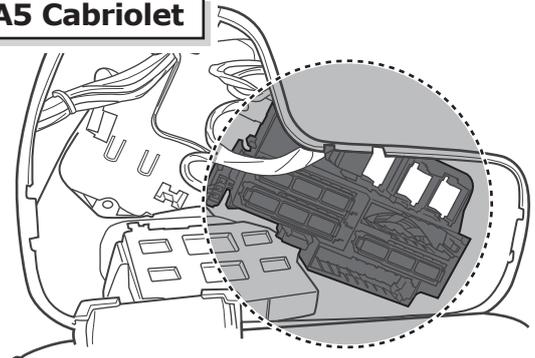
A4
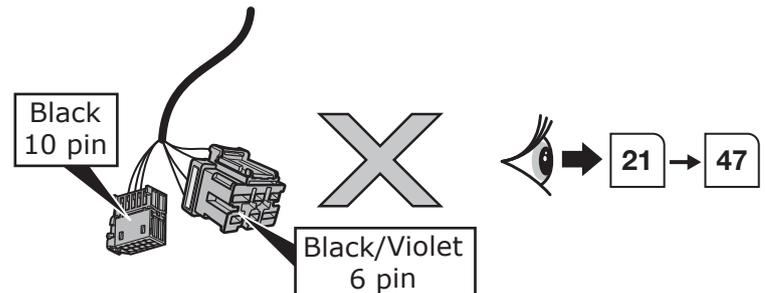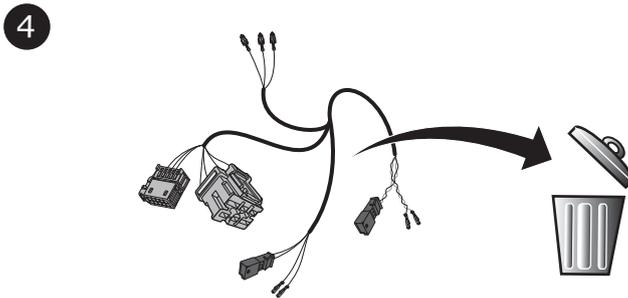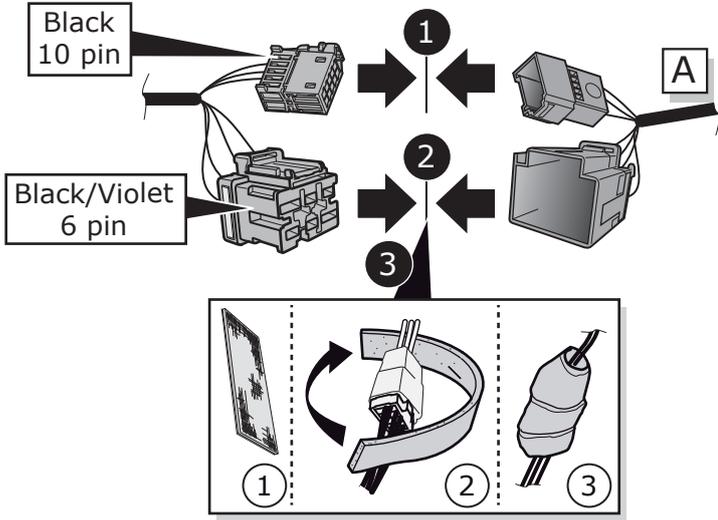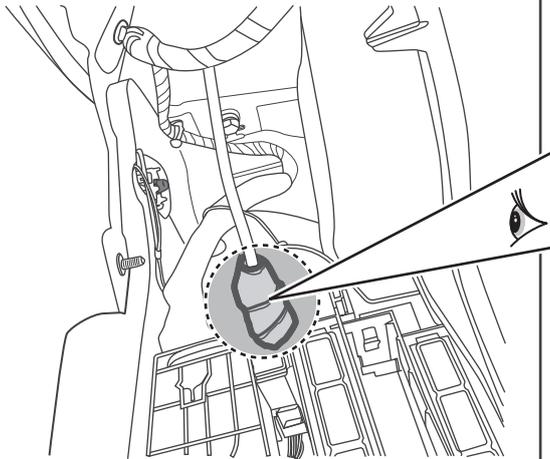
A5 Coupé

A5 Sportback

A5 Cabriolet

10/20

UNLOCK

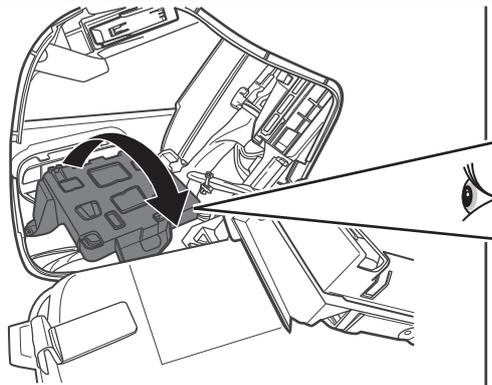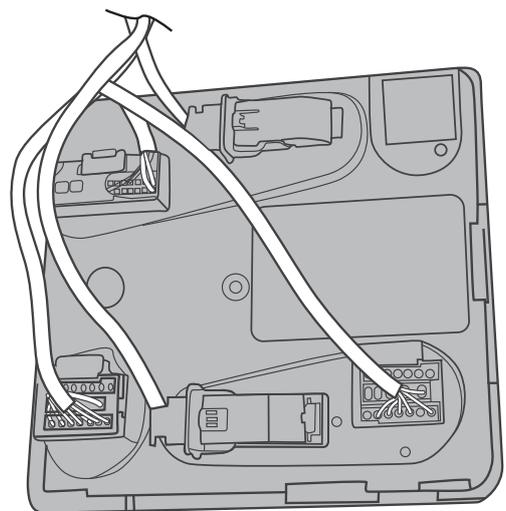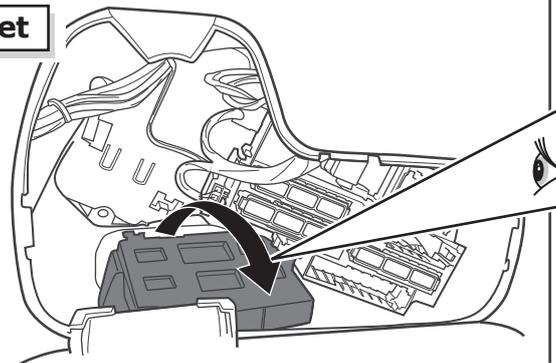**Connector 32 pole Blue**

1

2

3

23

1

2
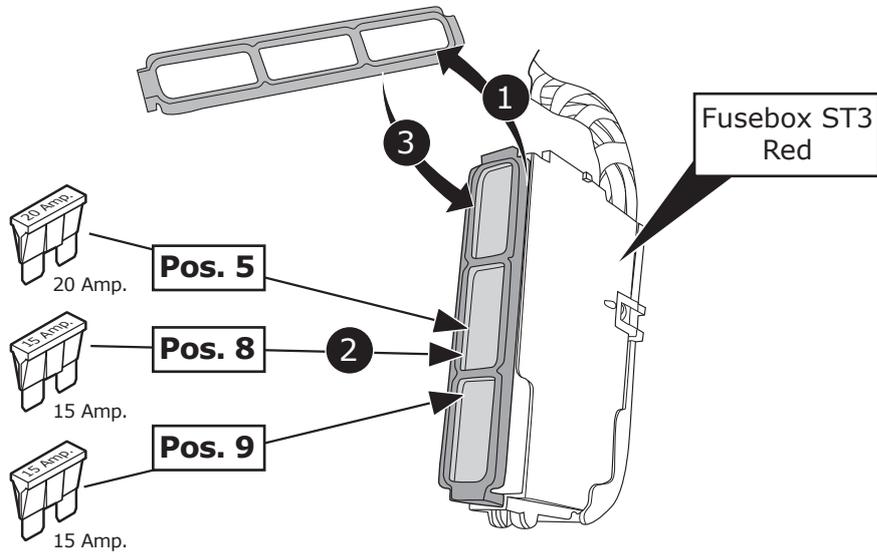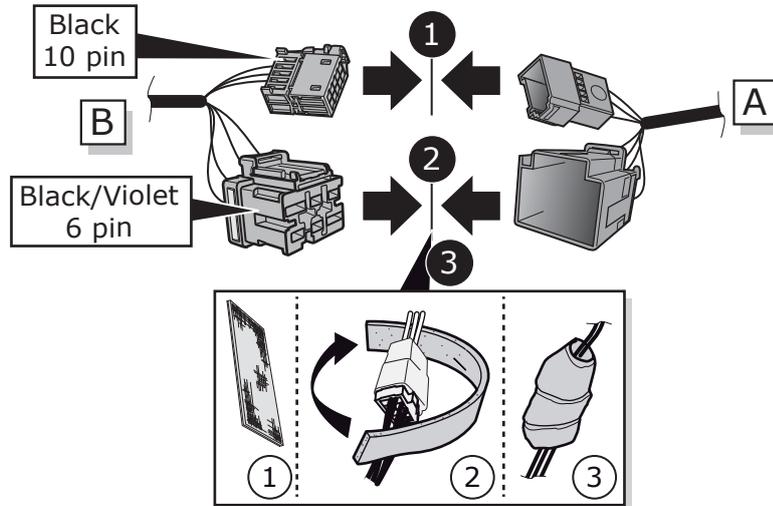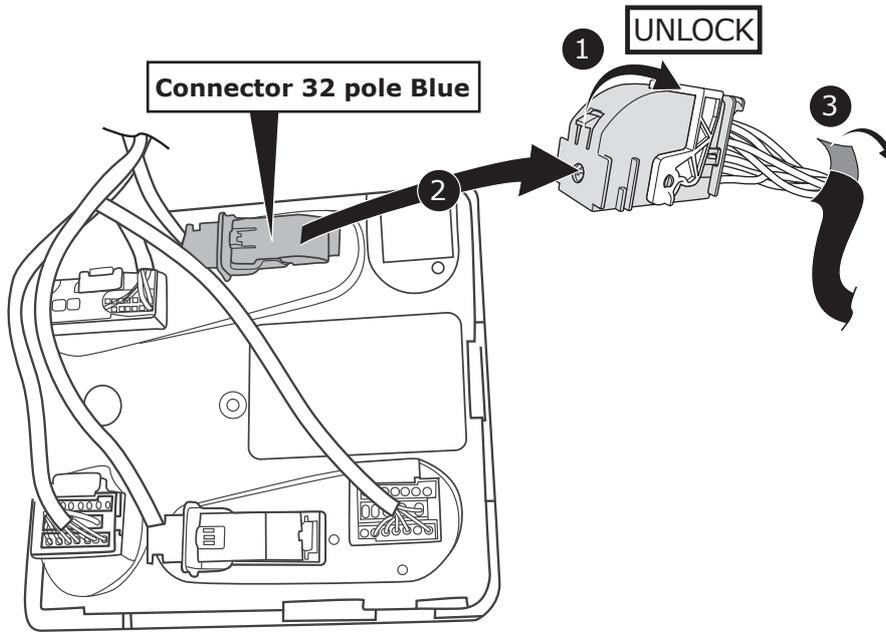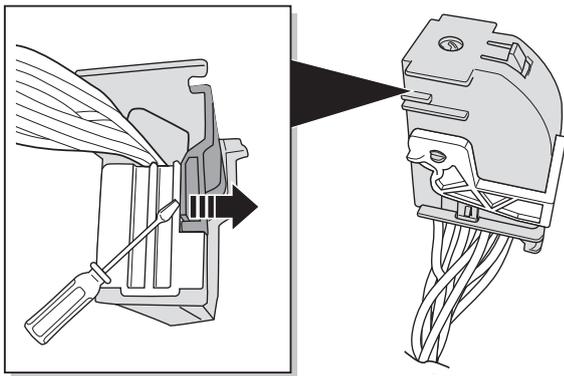
24

Connector 32 pole Blue
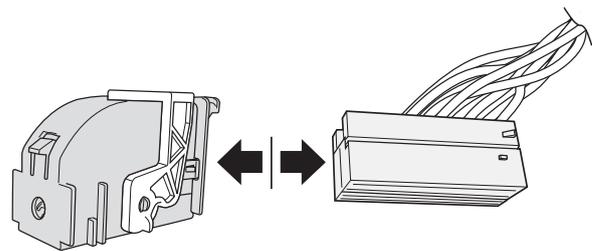
Connector 32 pole Blue
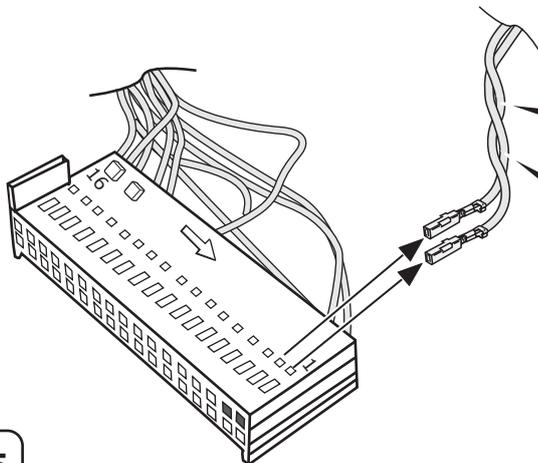
CAN L	Orange/Brown Pos. 1
CAN H	Orange/Green or Green Pos. 2

Can-bus
Datawire

25

11/20

26

CAN H | Orange/Green or Green Pos. 2

CAN L | Orange/Brown Pos. 1

LOCK

2

1

3

L1

Orange/Brown Pos. 1

Orange/Green Pos. 2

L2

4

Orange/Green Pos. 2

Orange/Brown Pos. 1

27

Connector 32 pole Blue

28

Connector 32 pole Blue

LOCK

2

1

3

29

UNLOCK

1

2

3

Connector 32 pole Black

30

1

Connector 32 pole Black

2

Connector 32 pole Black
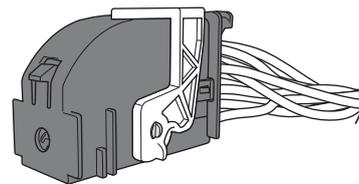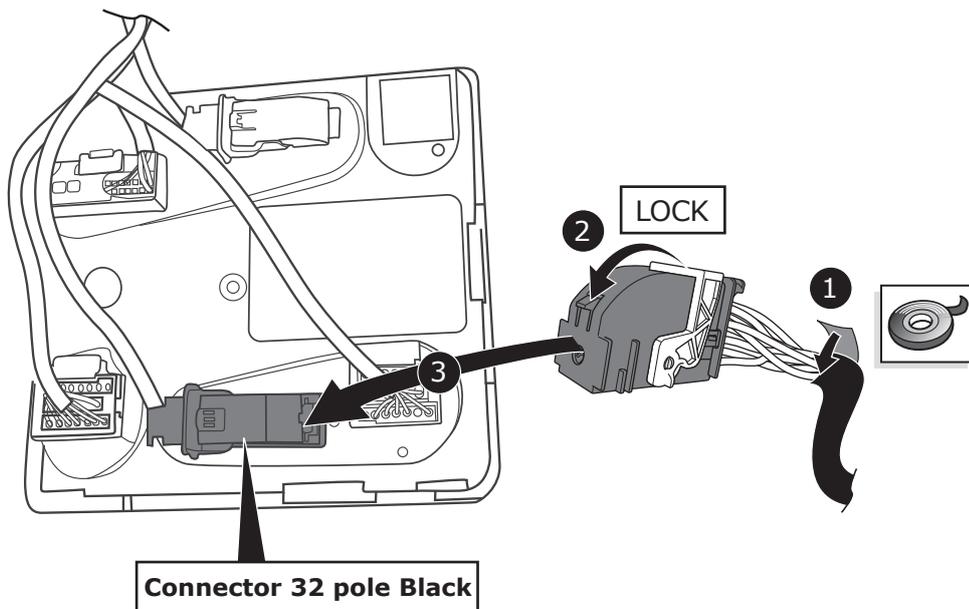
31

16

STOP

Pos. 12

+15

Black or Black/Purple
Pos. 17

32

+15 Black or Black/Purple Pos. 2

STOP Pos. 3

LOCK

16

L4

L3

Black Pos. 2

Blue/Red Pos. 3

Blue/Red Pos. 12

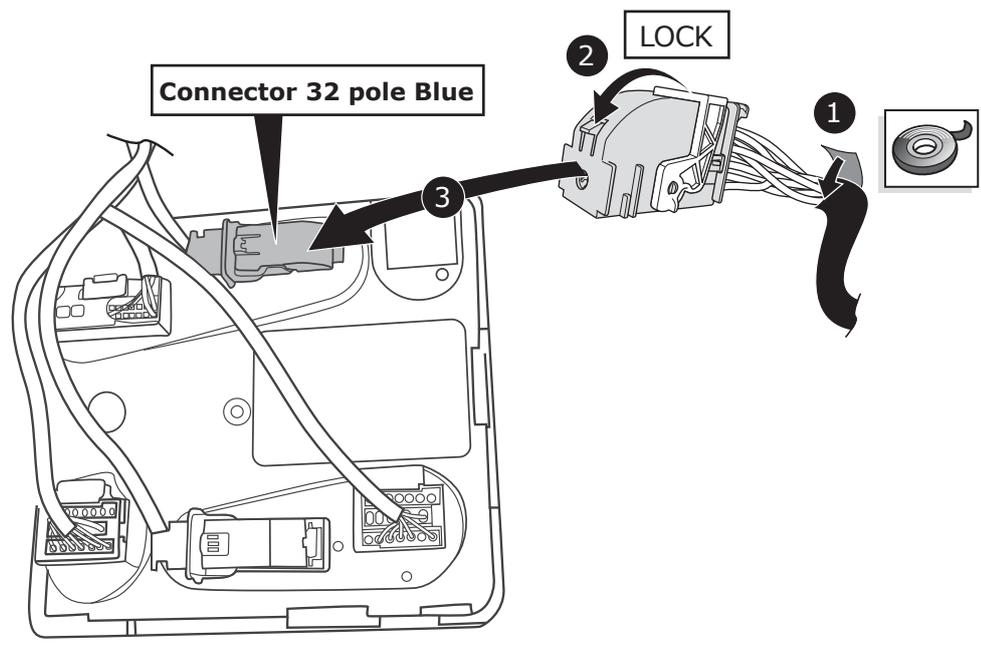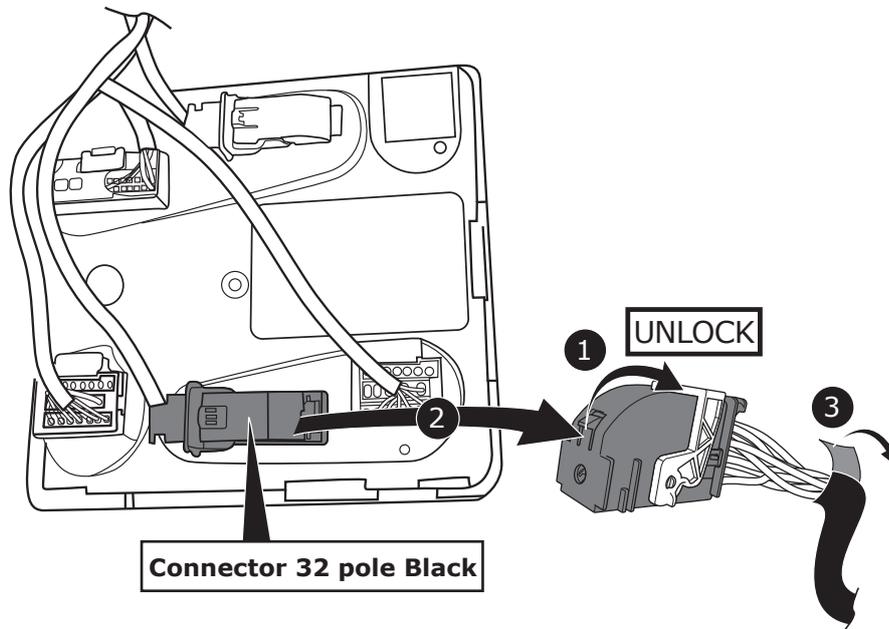Black Pos. 17

33

Connector 32 pole Black

34

LOCK

Connector 32 pole Black

A4

A5 Coupé

A5 Sportback

A5 Cabriolet

Fusebox ST3
Red

Fusebox ST3
Red

Fusebox ST3
Red

Fusebox ST3
Red

Fusebox ST3
Red

①

②

③

④

Pos. 5 **Pos. 8** **Pos. 9**

Red/Blue

Red/Yellow

Orange

U

35

36

Fusebox ST3 Red

1

2

3

4

20 Amp. — **Pos. 5**

15 Amp. — **Pos. 8**

15 Amp. — **Pos. 9**

37

A4

A5 Coupé

A5 Sportback

A5 Cabriolet

Fusebox ST3 Red

Fusebox ST3 Red

➡|⬅

➡|⬅

38
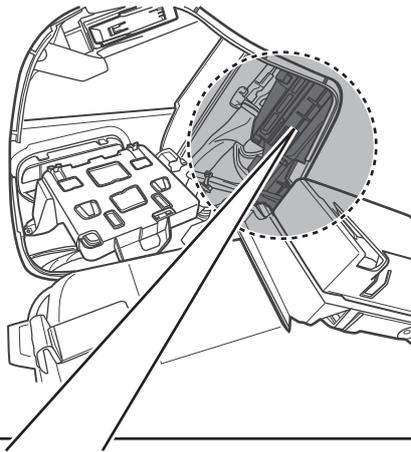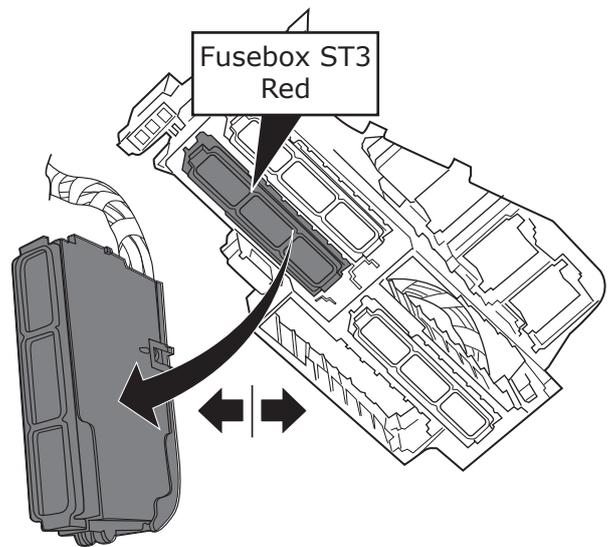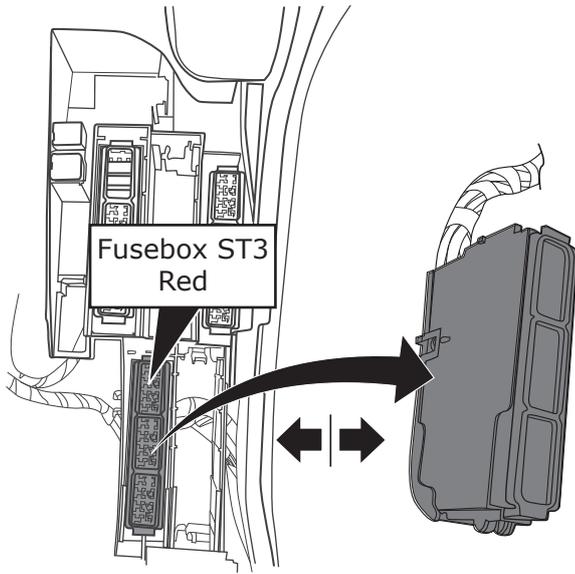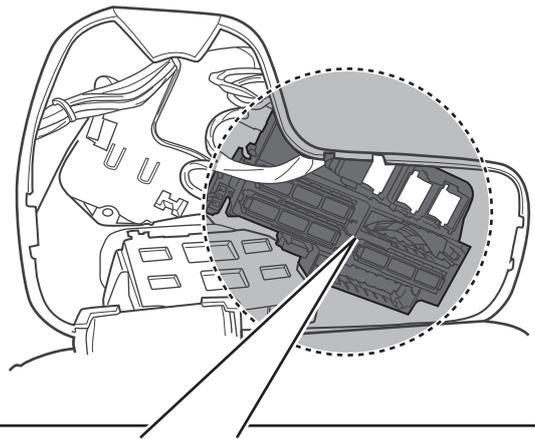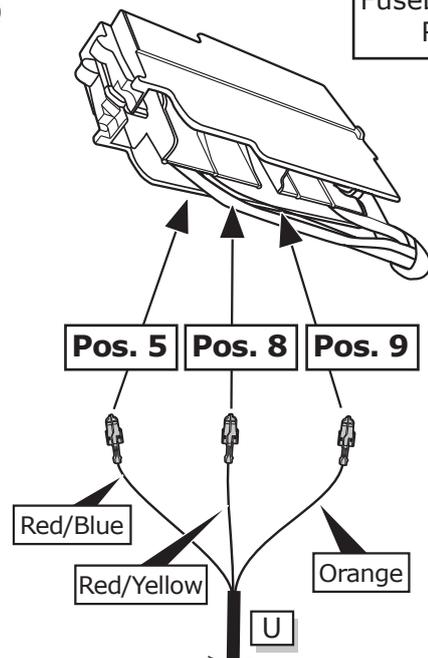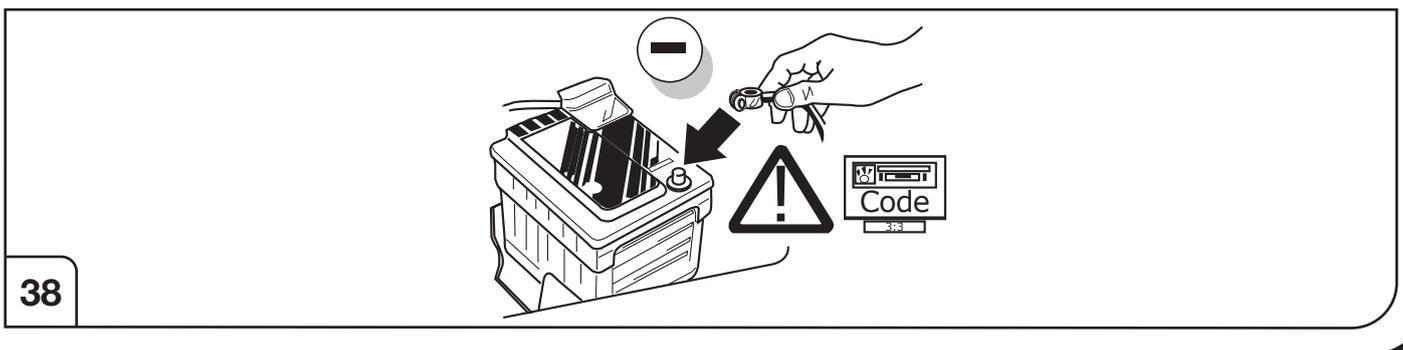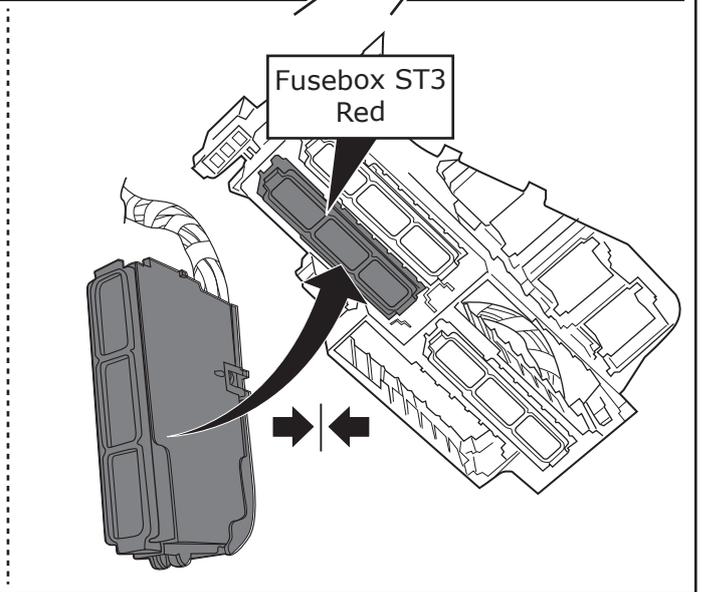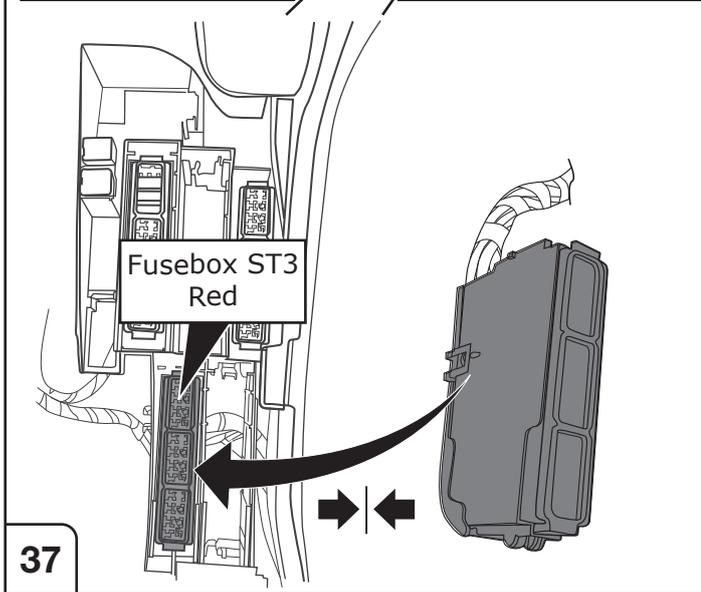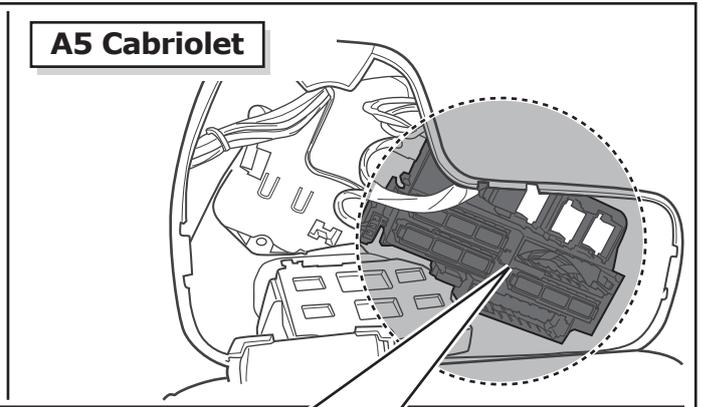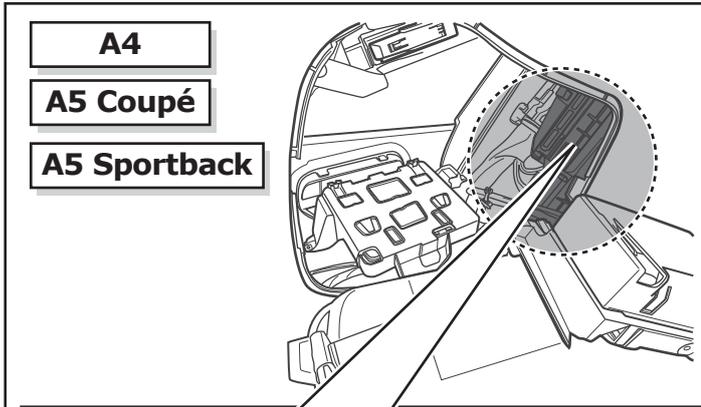
Code

Diagnosis Services or diagnostic methods (local / offline):

Please note:

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

- **ODIS**
- **Hella Gutmann**
- **VCDS**
- **Autologic**
- **Bosch / KTS**
- **SP Diagnostic**
- **SUN**
- **Jifeline**
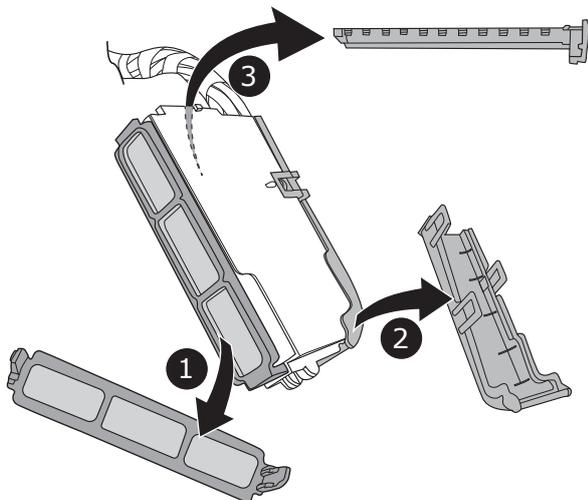- **Autocom**
- **etc. pp.**

CODING WITH ODIS

Please note:

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

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

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

EZE_09 (electronic central electric controller):
   Diagnosis
    (possible login code: 31347)
     Networking plan
      Controller self-diagnosis
       Encode
   Trailer connection device   ›installed
   or: hitch_ecu   ›installed
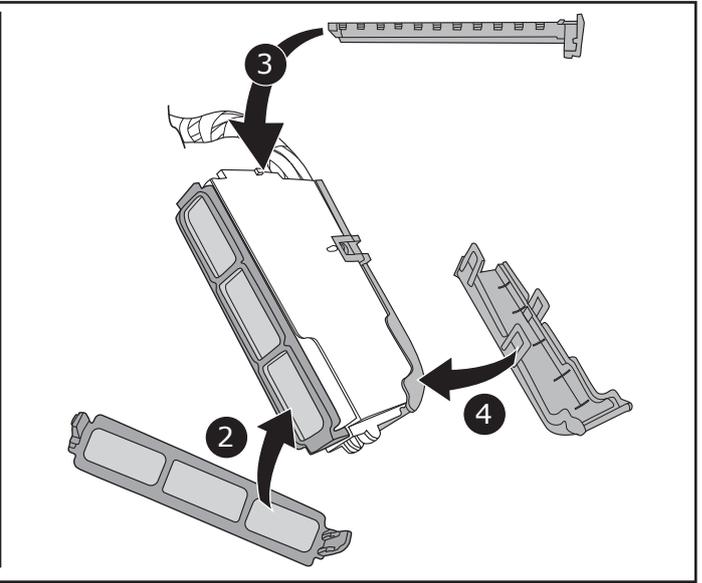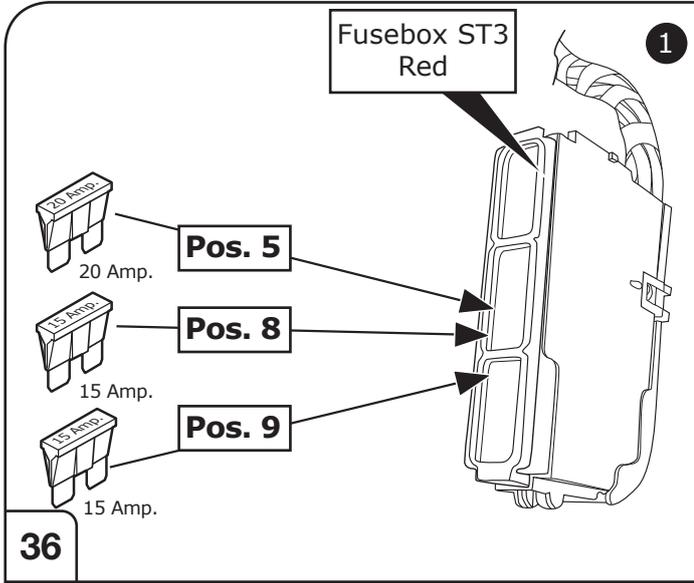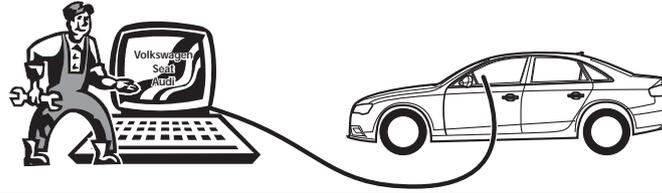
Alternative encoding EZE_09 as follows (MY 2017 >>):
   Self diagnose control unit
    Access authorization ›31347
    Adjustment
     Integration
     Trailer control unit > installed

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

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

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

SCH_17 (Dash panel insert)
   Trailer   ›yes

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

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

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

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

Alternative encoding DIS_13 as follows:
   Self diagnose control unit
    Access authorization   ›20103
     Encoding
      Binary encoding
      Byte 3
      Binary   ›xxxx**1**xxx
      or Hex   ›+**8**
03 Brake electronics
    Acces authorisation > 61378
    Adjustments
    Trailer stability >Active

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

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

Important note on encoding and activating in trailer mode
The aforementioned settings are carried out in the vehicle's electrical system and saved locally. During general updates for the vehicle software (for example, within the scope of service or repair work), the settings may be overwritten and deleted under certain circumstances. In this case, the trailer mode activation has to be updated again locally after the update. Diagnostic information relating to the trailer mode that may appear during variance comparisons with the data saved in the manufacturer's works, may form the basis of the local activation.
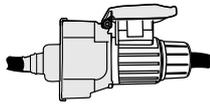
39

The following light functions for the trailer are **not supported** by all towing vehicles **with DRL circuit:**
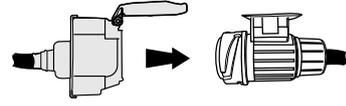
- **Rear lights**
- **Side lights**
- **Numberplate lights**

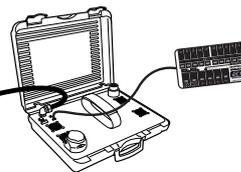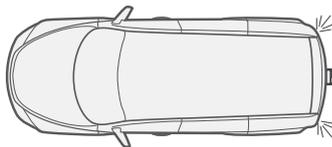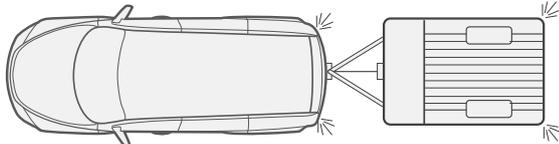The **taillights or dimmed headlights must be switched on** to activate this function!

40

41
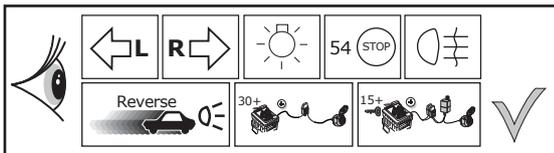

Optional

42

Trailer Simulator for 7- and 13-pin Sockets

📞

Consult your supplier.

43

Functional test

⚠️ **WARNING**

LIGHTMATE

ECS part no.

LIGHTMATE II

LIGHTMATE III

44

L R 54 STOP

Reverse 30+ 15+

21W ✓ ◁1▷   LED ✓ ◁1▷

LED   LED
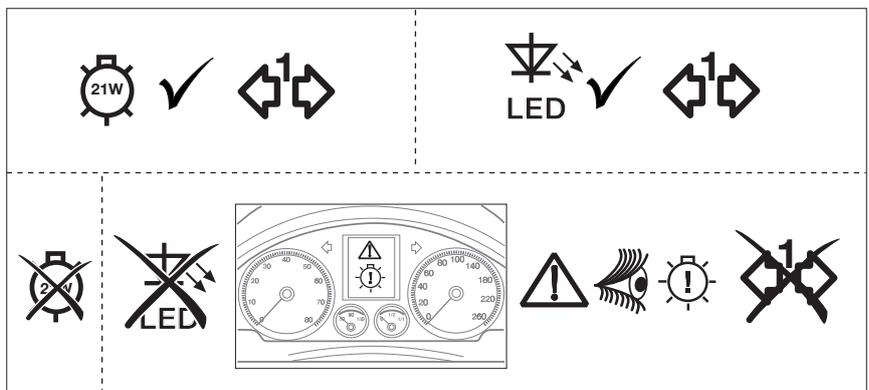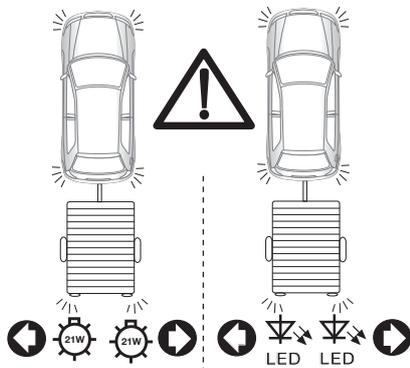
Optional

Adapter socket

13-pin　　**7-pin**

45

46

47

Yellow — 1
Pink — 8
Organe — 9
Black — 7
Grey — 10
Red — 6
Blue — 2
Green — 4
White/Black — 11
Brown — 5
White — 3
White/Red — 13
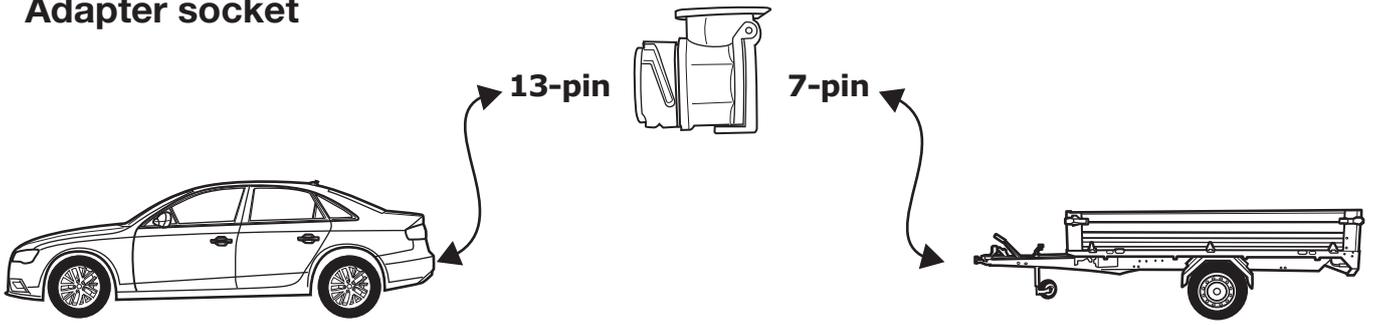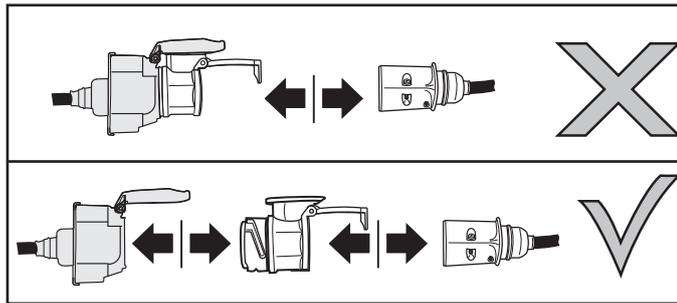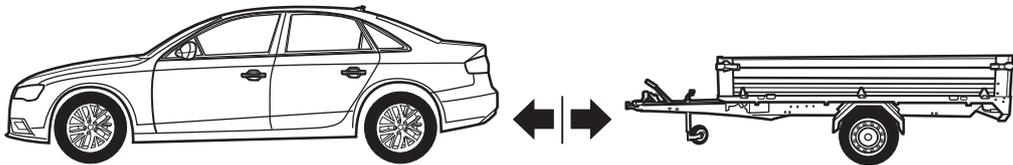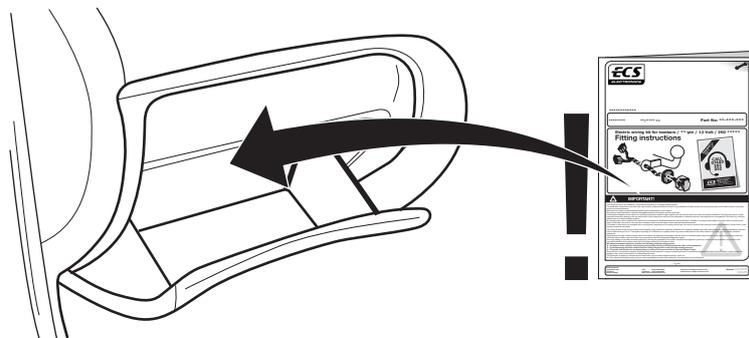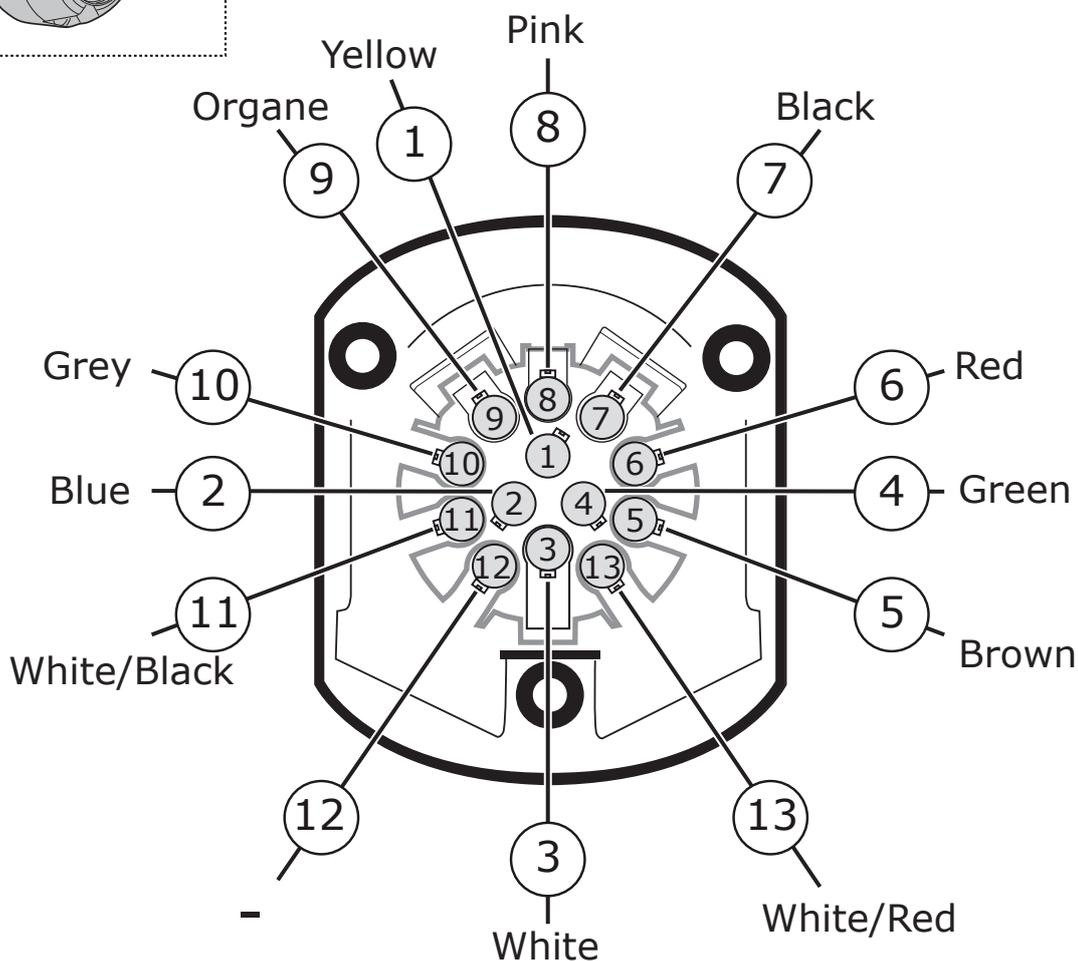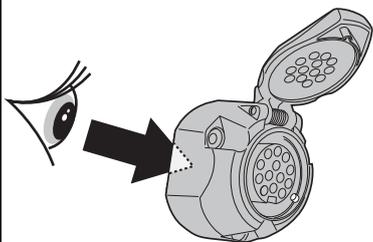
SOCKET CONNECTION

DIN/ISO 11446	⇦L	◖‡	⏚1-8	R⇨	☀	STOP	☀	Reverse 🚗	30+ 🔌	15+ 🔌	⏚10	—	⏚9
	1/L	2	3/31	4/R	5/58-R	6/54	7/58-L	8	9	10	11	12	13
Pmax	21W	21W		21W	42W	3x21W	42W	21W	180W	180W			
Colour	Yellow	Blue	White	Green	Brown	Red	Black	Pink	Organe	Grey	White/Black	-	White/Red