Right Connections

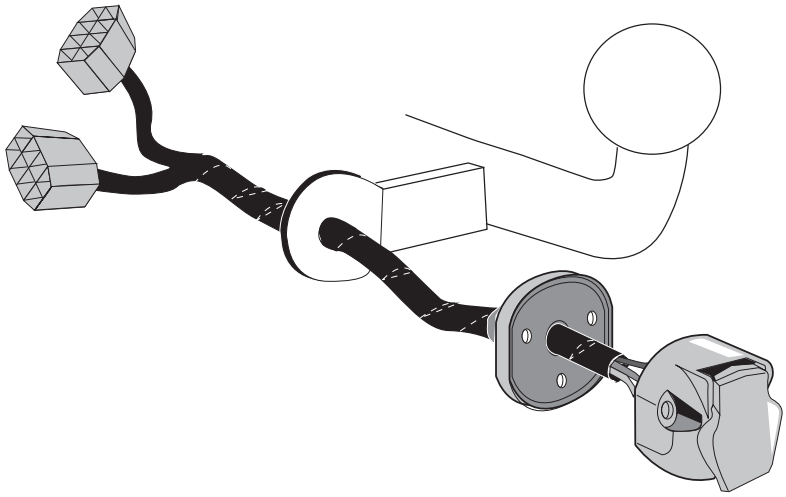
towbar wiring kits for the uk

Citroën Relay	Van	01/2011 >>
Citroën ë-Relay	Van	03/2024 >>
Fiat Ducato	Van	01/2011 >>
Fiat E-Ducato	Van	03/2024 >>
Vauxhall Movano C	Van	01/2022 >>
Vauxhall Movano C Electric	Van	03/2024 >>
Peugeot Boxer	Van	01/2011 >>
Peugeot E-Boxer	Van	03/2024 >>
Toyota Proace Max	Van	09/2024 >>
Toyota Proace Max Electric	Van	09/2024 >>

Part No: FI-053-13M

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

Fitting instructions



IMPORTANT!

This electric kit has to be installed by a professional workshop or a suitable qualified person.
The installation instructions must have been read and fully understood before the start of any installation. Please contact your wiring kit provider or the hotline shown in the footer should you need assistance!
Make sure the vehicle is approved/homologated by the manufacturer to tow a trailer!
Also please check that there is a definite compatibility between this vehicle and the electric kit!
Following the installation of the electric kit, the fitting instructions should be kept together with the vehicle service document and vehicle handbook. The fitting instructions contain important information relating to the use and function of the towing kit as well as for any diagnostic or activation process, that might have to be repeated in the future (e.g. after the performance of a vehicle software update).
All warranty claims will be forfeited if the electric kit or components contained therein are used incorrectly or modified. If a towing socket adaptor has been used to connect to the trailer or bike rack, this must be removed from the trailer socket once the trailer or bike rack has been disconnected.
If the trailer or bike rack is not equipped with a rear fog lamp, depending on the towing vehicle type, the correct function of the towing kit cannot be guaranteed. In such cases, a rear fog lamp should be retro fitted.
This towing electric kit will not be covered under warranty if any technical or electrical modifications or software updates have been performed by the vehicle manufacturer after the initial commissioning of the kit. That applies especially to modifications or updates which may cause malfunctions in the trailer socket or any other part of the trailer electrical equipment!
Depending on the type of trailer module used in this electric kit, diagnostic interrogation with the vehicle's electrical system may be limited or will not function. The error memory inside the trailer module may not be able to be accessed by vehicle manufacturers diagnostic system.
Error logs relating to the trailer electrical equipment, that may be generated in the vehicle manufacturers diagnostic system as a result of a test procedure, may be due to the incorrect installation of the towing electric kit or the false activation of the trailer module.
We always recommend whenever possible, the following troubleshooting process:

- **An analysis of the vehicle's error memory and possibly clearing of all faults before the start of the installation!**
- **Try disconnecting the trailer module from the towing harness and re-start the fault clearing process!**
- **If in doubt, limit the time for troubleshooting to a max of 0,5 hours and call our Technical Support Team!**

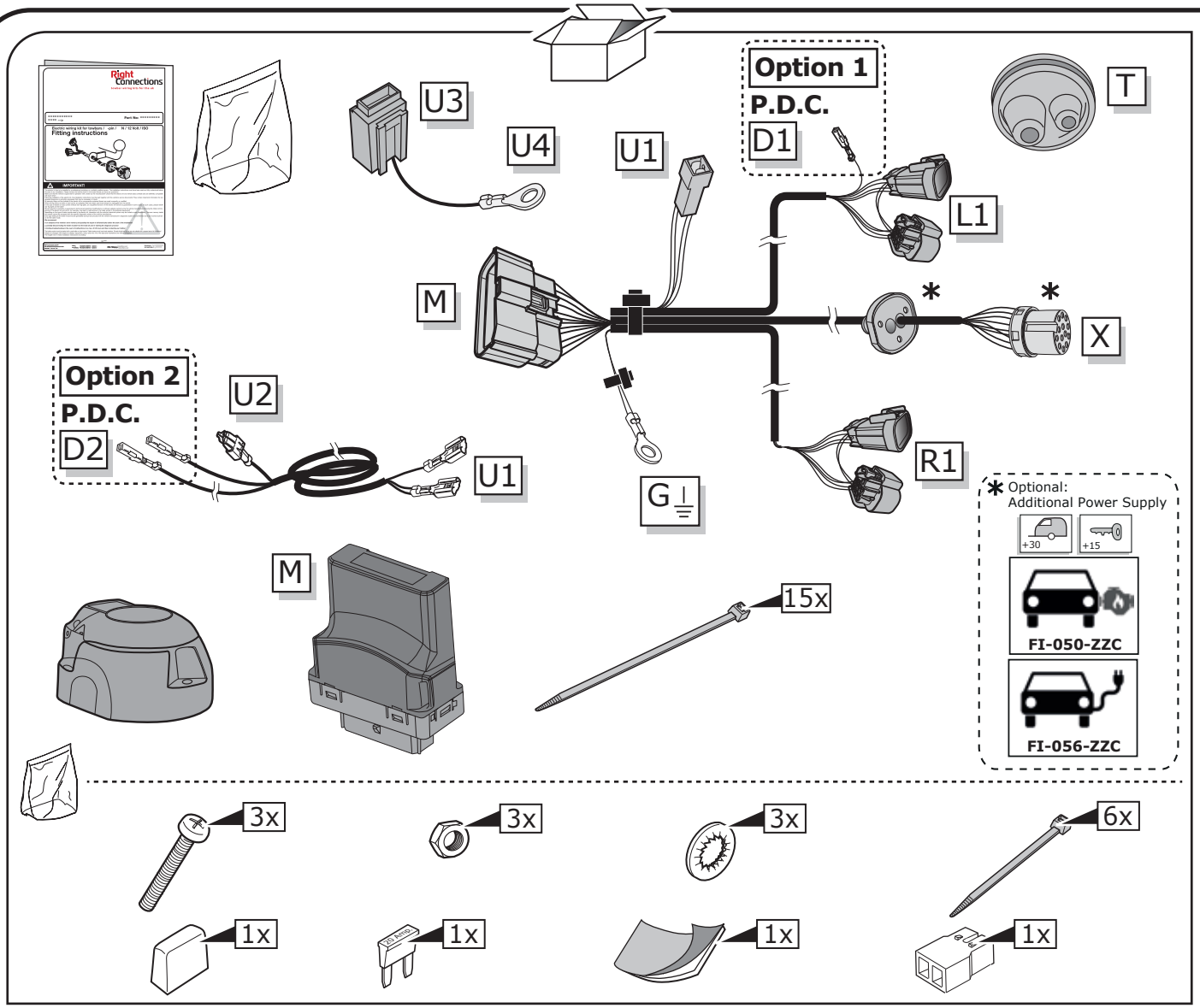
Please follow our instructions carefully and always test the towing electrics using a true lighting board or a specifically designed bulb tester. If an LED tester is used, ensure it is equipped with correct load resistors or malfunctions will occur!
This instruction is subject to changes and we reserve the right to make changes to design, colour etc.
All of the data and illustrations may not be an exact representation but the text contained in this instruction must be observed!

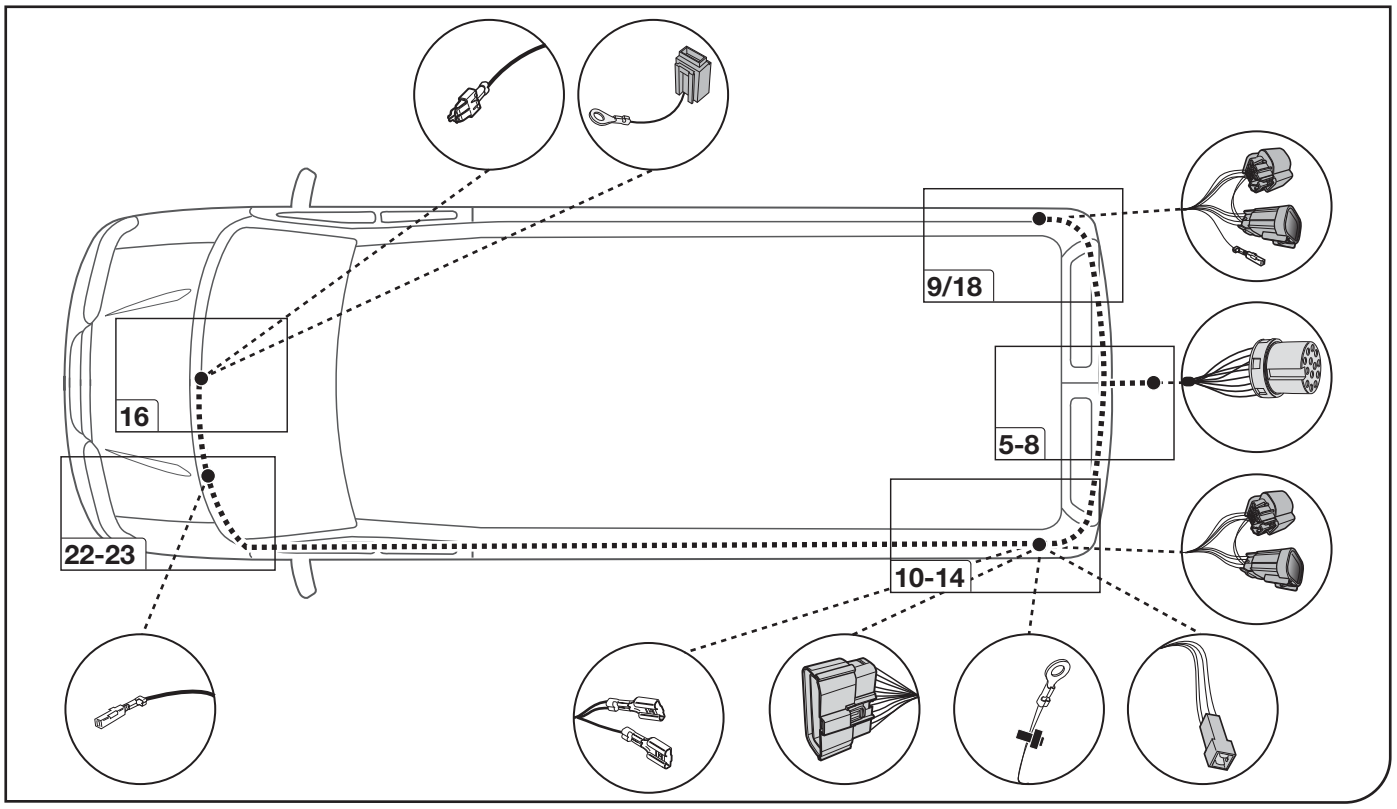
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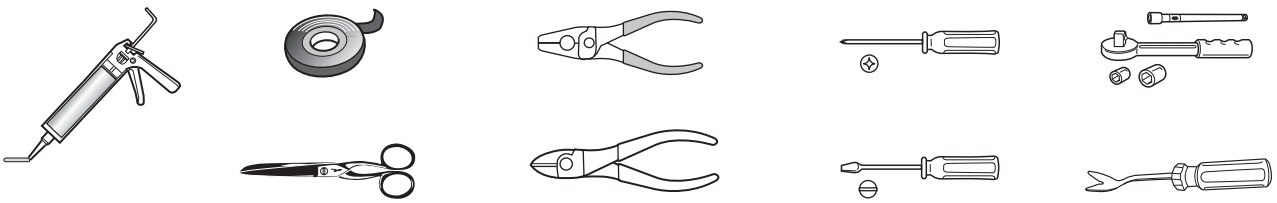
SYMBOL EXPLANATION

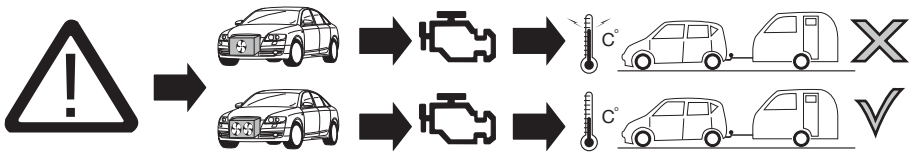
58L	Left taillight (58-L)
58R	Right taillight (58-R)
54 STOP	Stop light (54) / high mounted, third stop light (54)
L	Turn signal indicator left
R	Turn signal indicator right
	Rear fog light(s)
Reverse	Reversing lights(s)
+30 15 amp.	Permanent power supply / 13pin socket, chamber 9
+15 15 amp.	Charging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

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

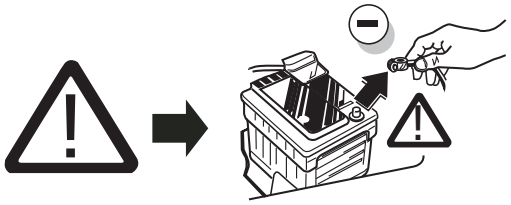
X	Not present / Not occupied / not OK
L	Left
R	Right
	Acoustic indication
	Attention / important advice
REUSEABLE	Reuseable
	Trash bin
	Use tape
OPTION	Option
INFO	Information
	Measure the voltage
NO NC COMMON	Normaly open Normaly close Common

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!

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!

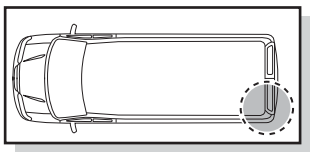
Please pay attention to the manufacturer's instructions when disconnecting and reconnecting the vehicle's battery!

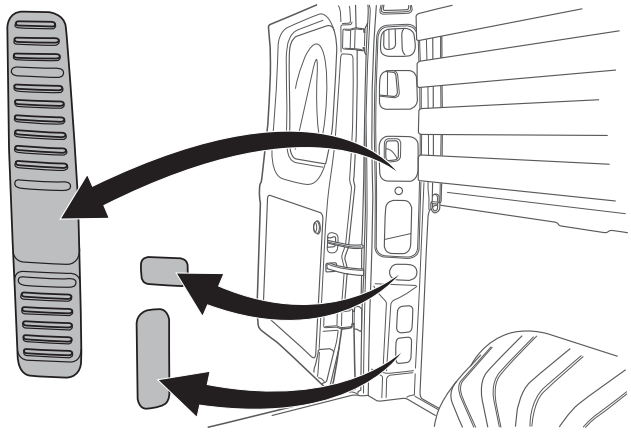
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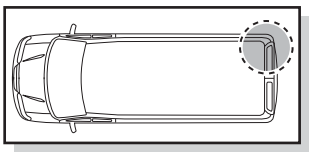
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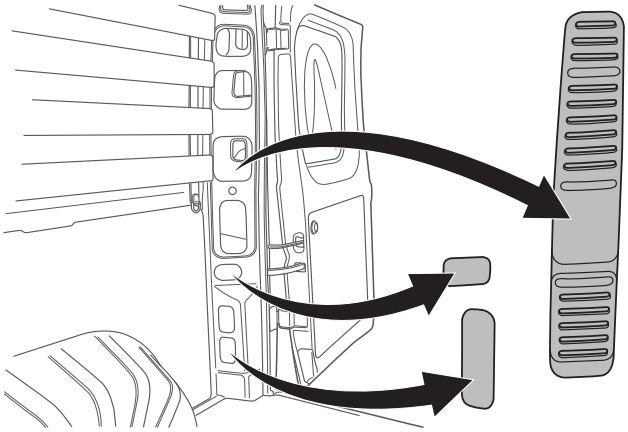
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FI-053-13M



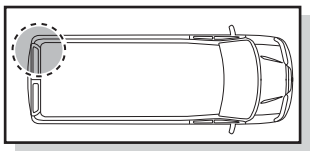


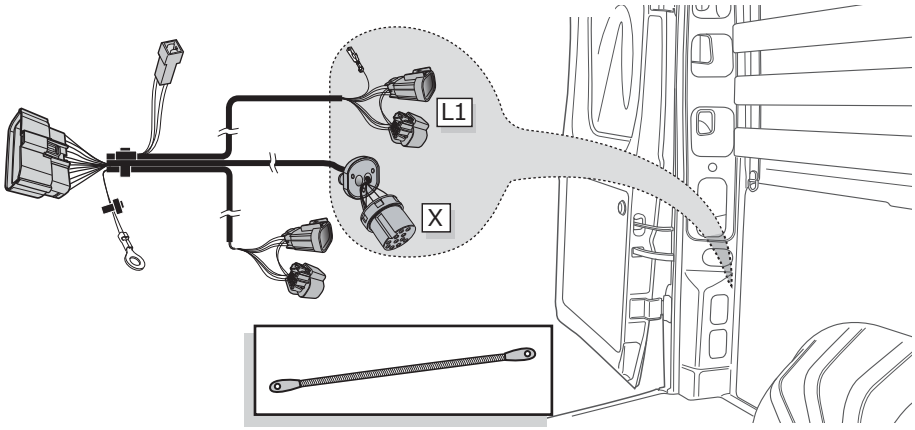
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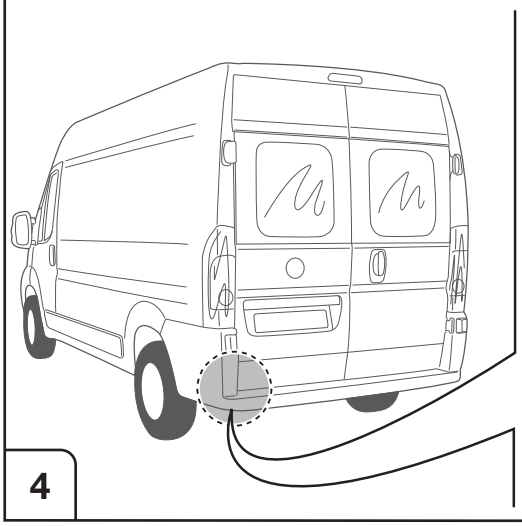


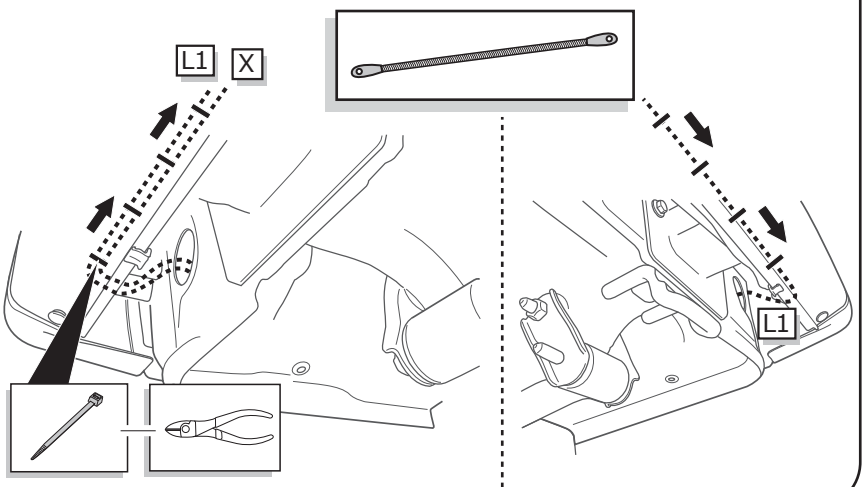


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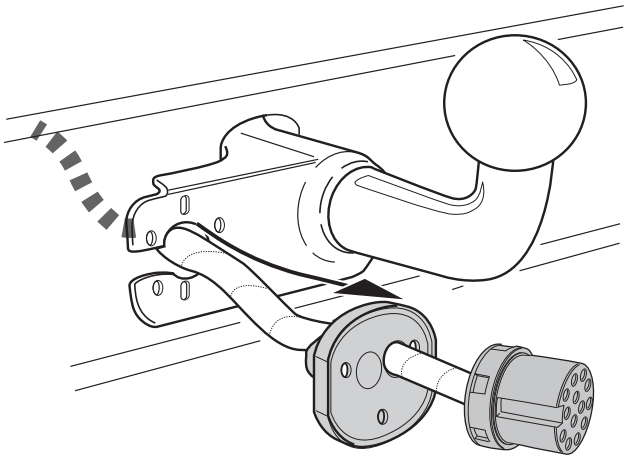
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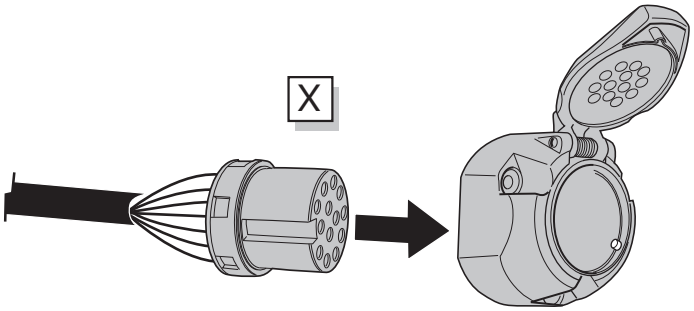


X

5

SOCKET CONNECTION Page 18

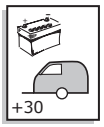
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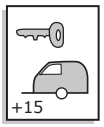


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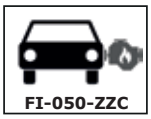
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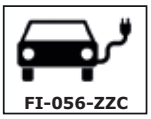
OPTIONAL:
Extension kit
Pin 9, 10, 11 &13

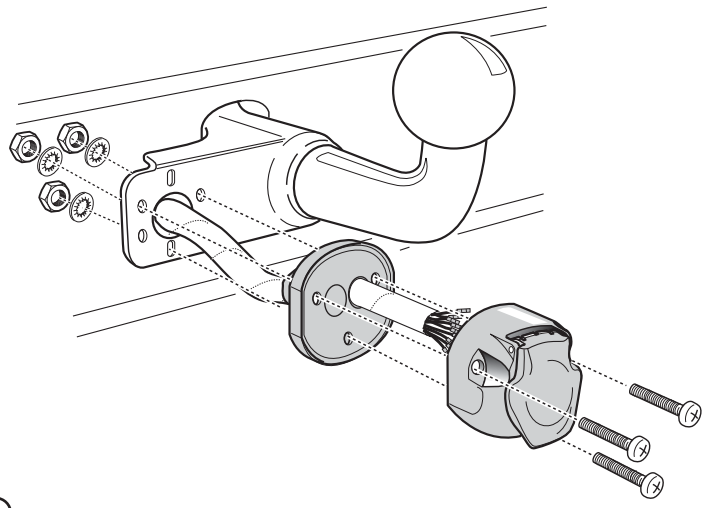




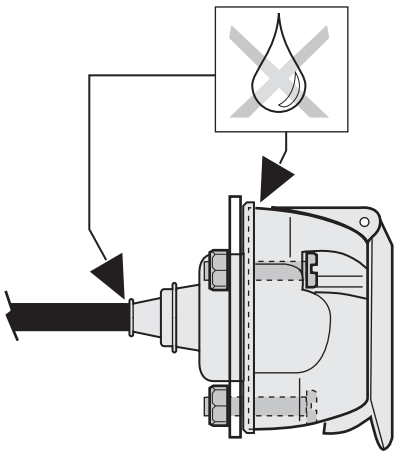
ECS **part no.**







8

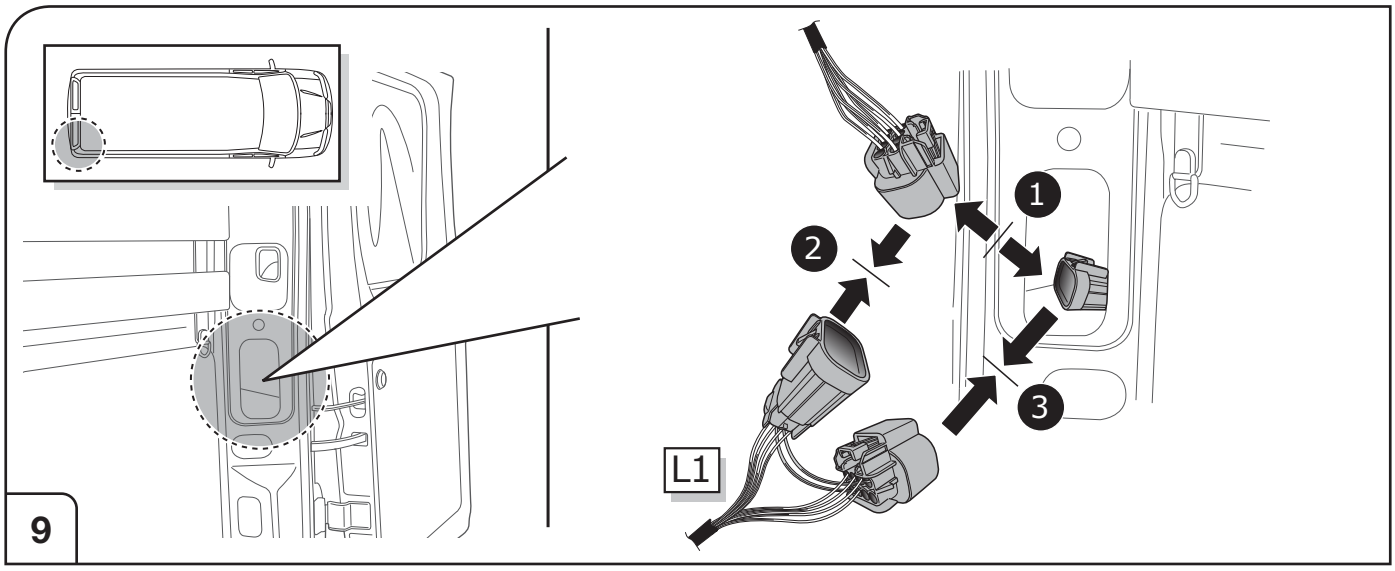


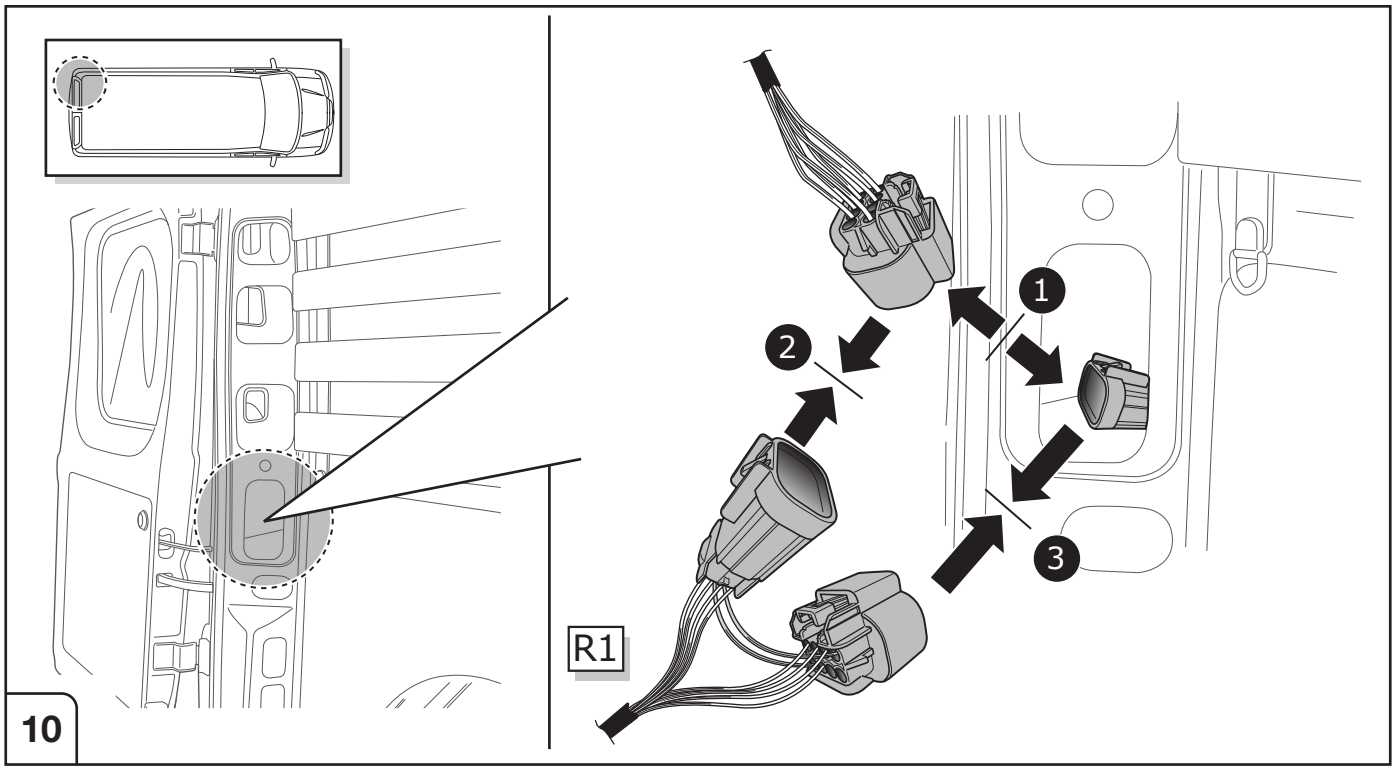
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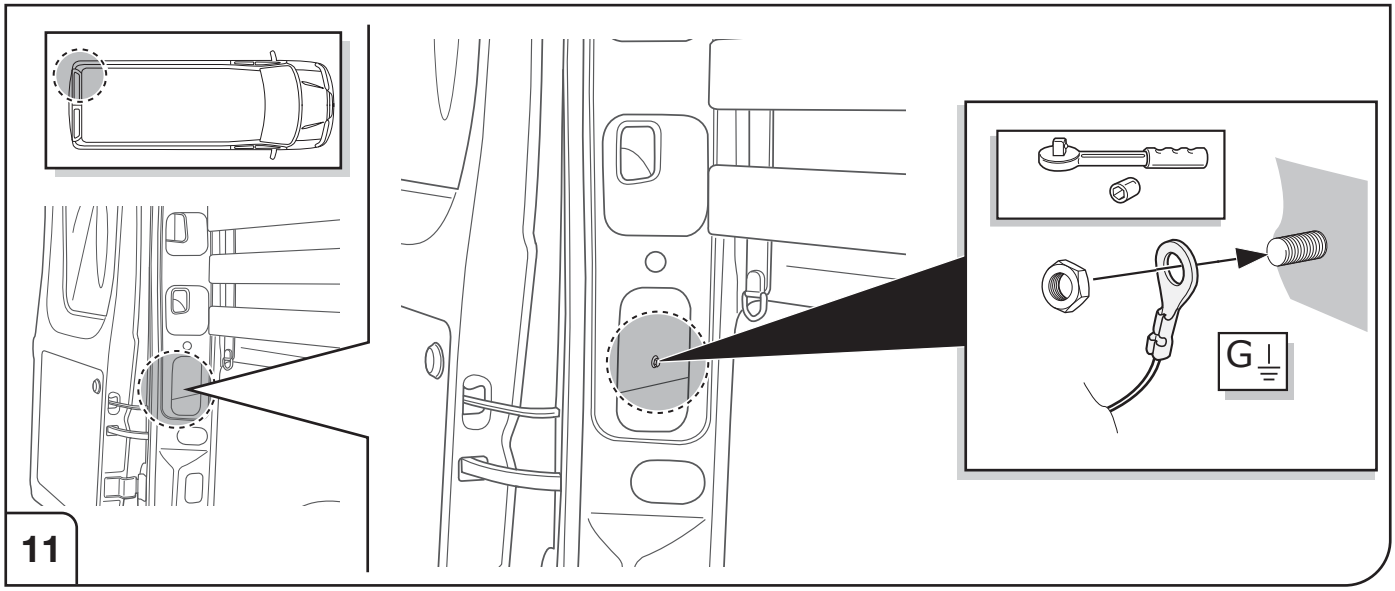
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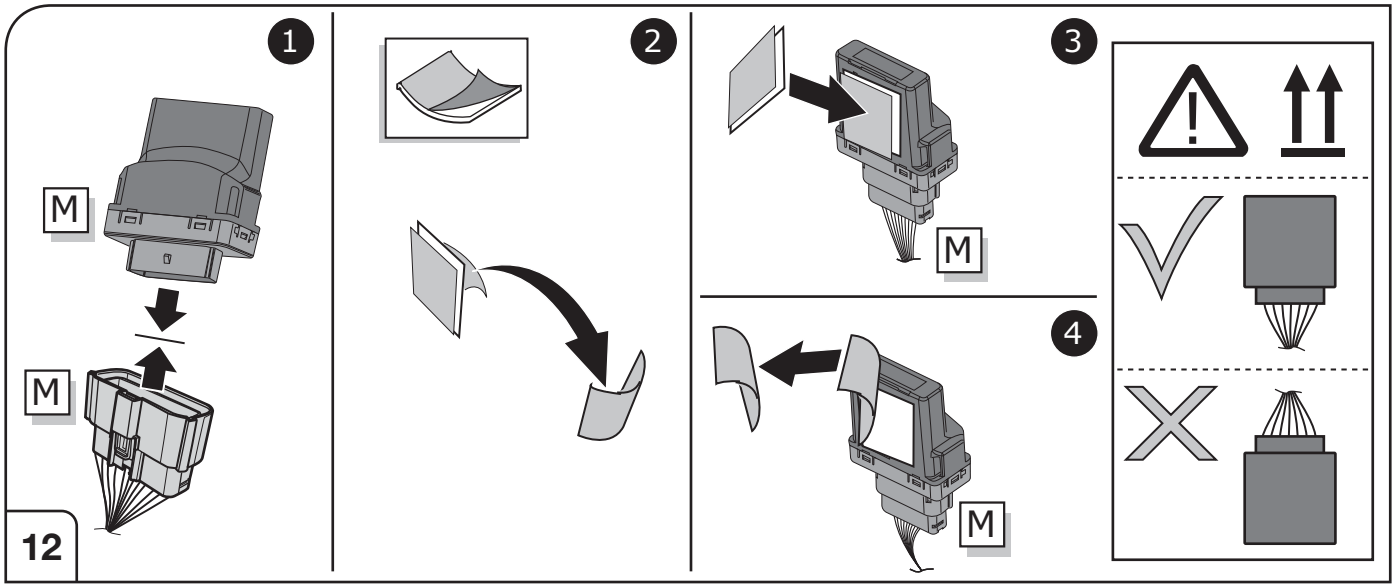


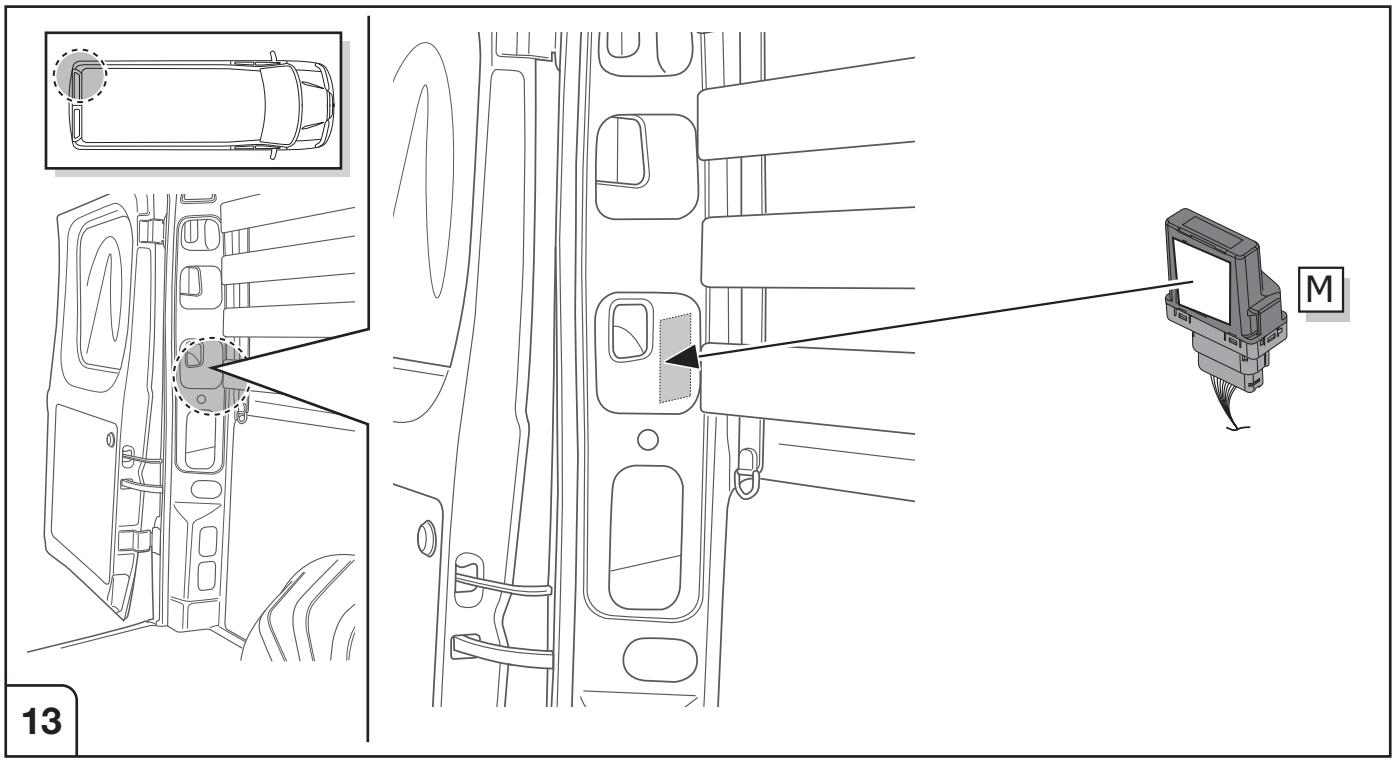
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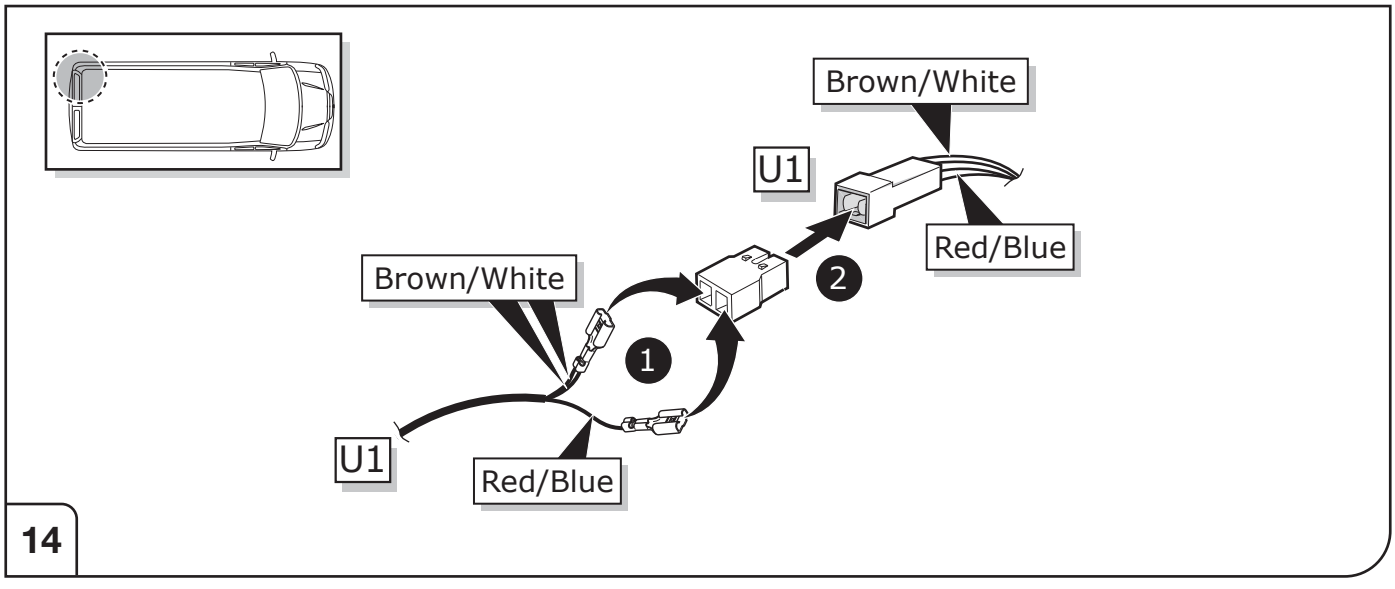
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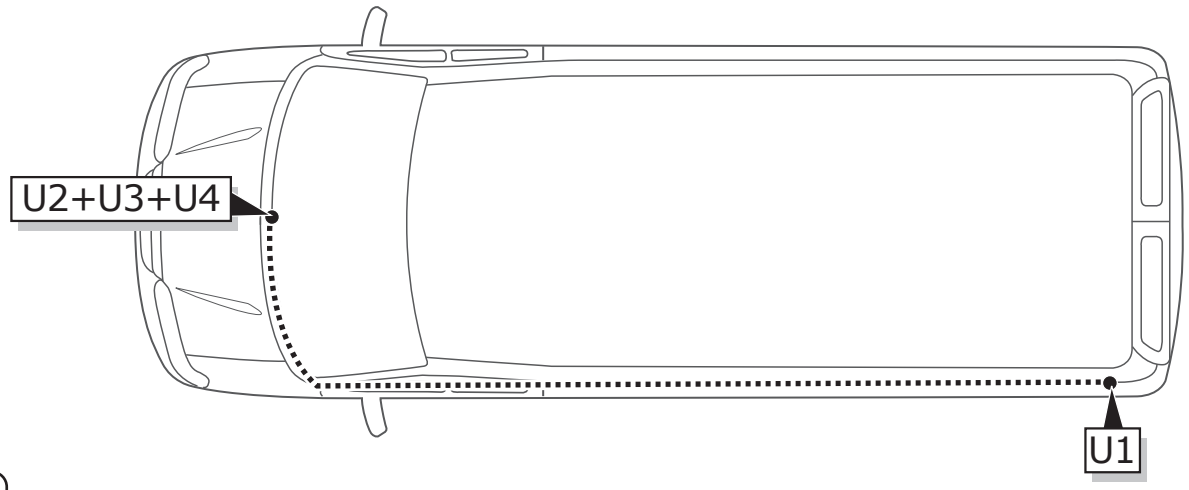


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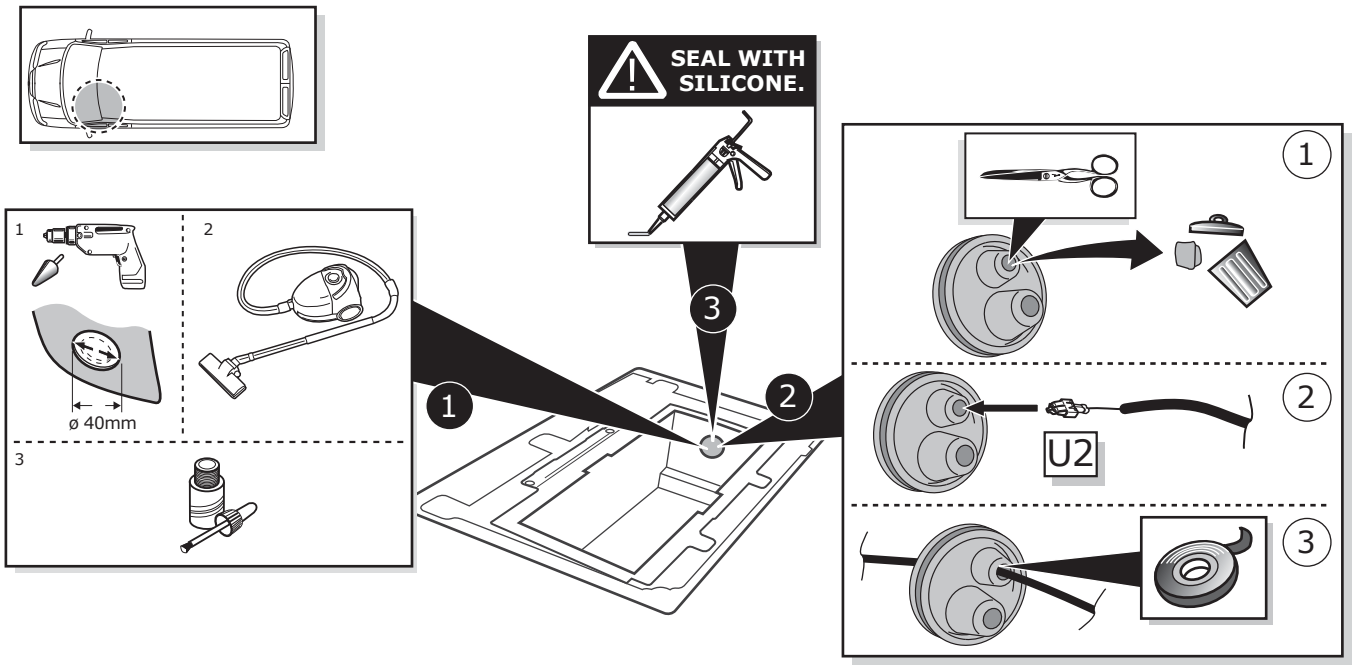
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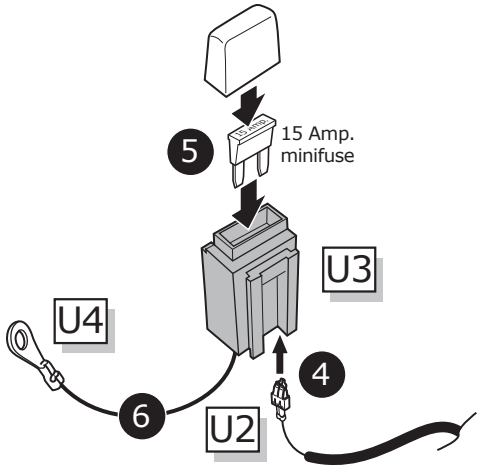
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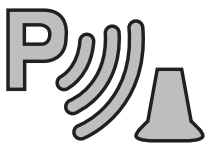
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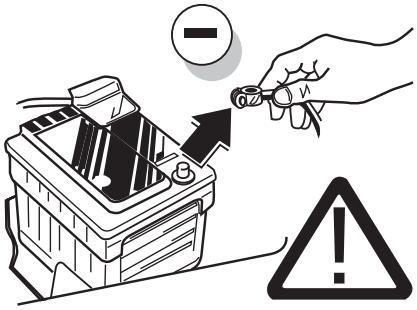
Vehicles with park distance control (P.D.C.)

OPTION 1 - vehicles with PDC-unit in the rear right

18

OPTION 2 - vehicles with PDC-unit in front under the dashboard

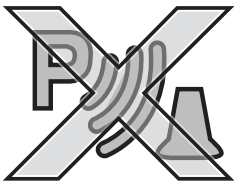
19 – 23



Disconnect Batterie to reset PDC-ECU!

OPTION 3 - vehicles with PDC and factory fitted trailer preparation (Fiat order code 4HB)

24 – 25



26

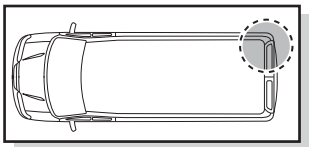
Vehicles without park distance control (P.D.C.)

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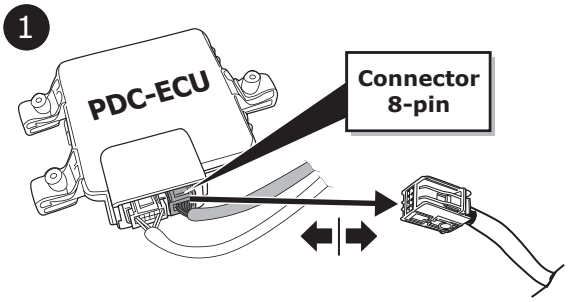
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FI-053-07M

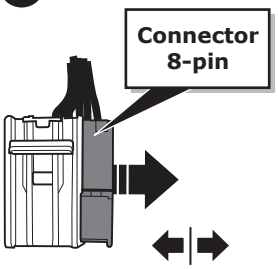


OPTION 1

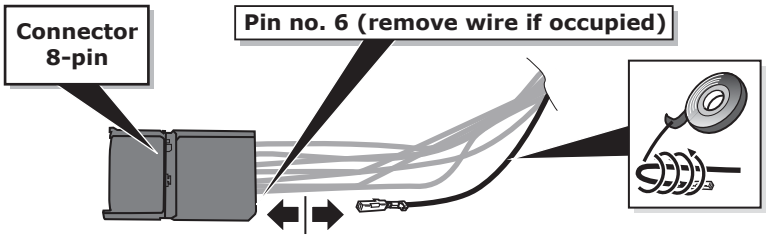
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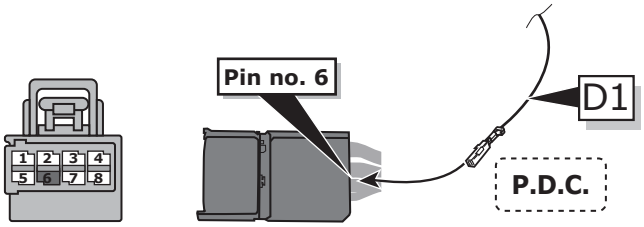
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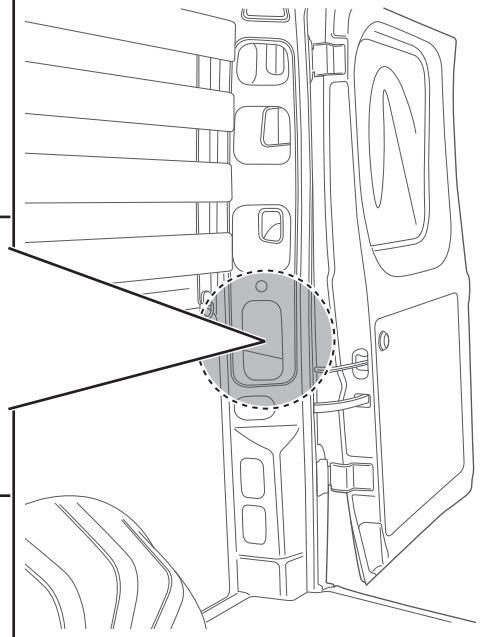


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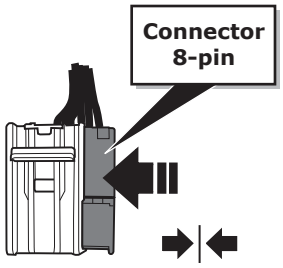


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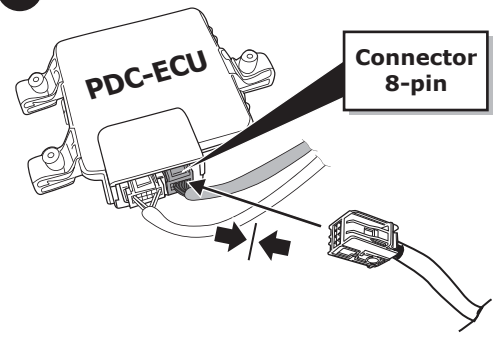




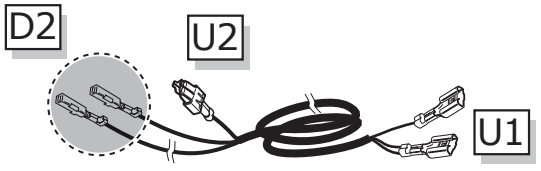
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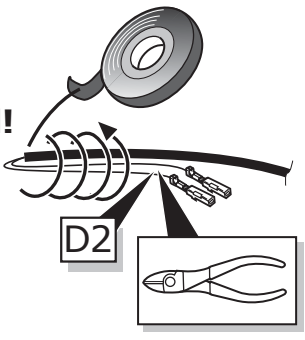
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7



D2 not needed!



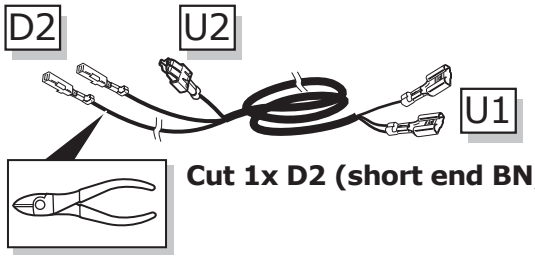
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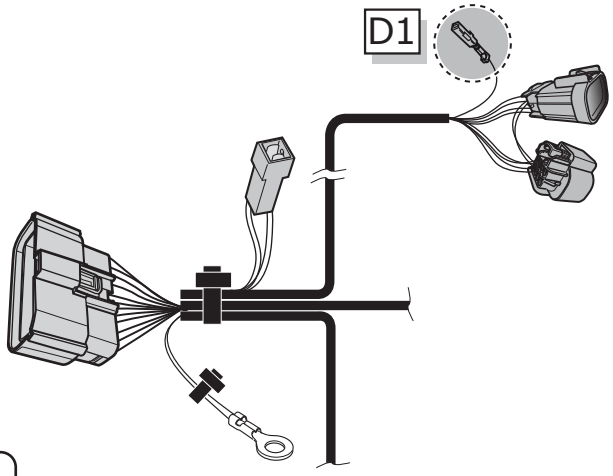
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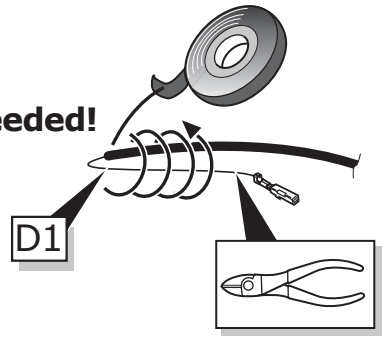
OPTION 2



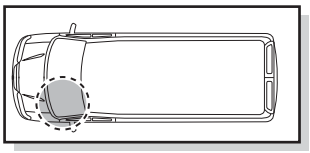
Cut 1x D2 (short end BN/WH)



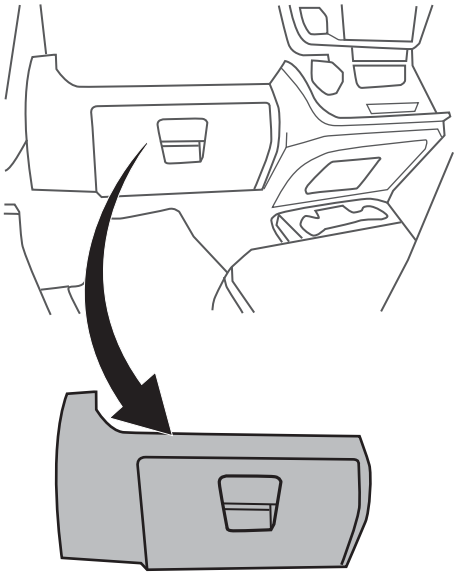
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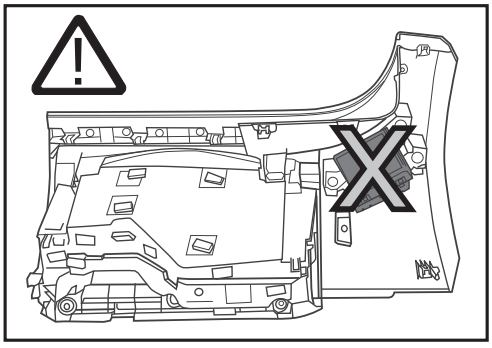


19



OPTION 2





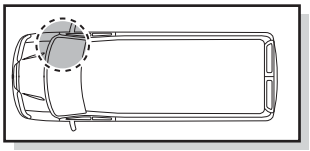
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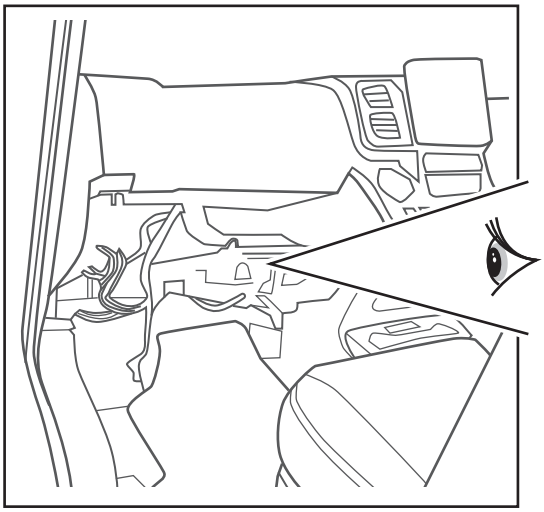
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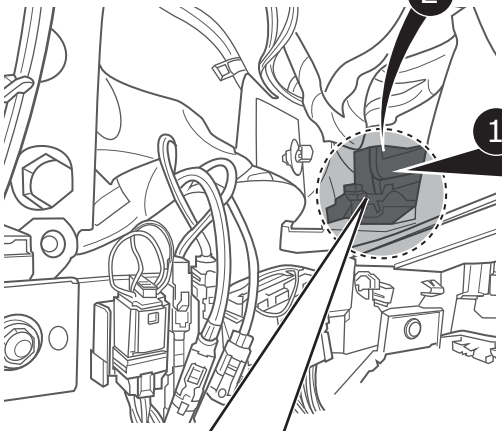
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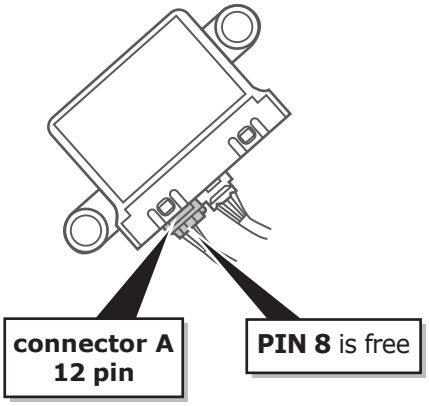


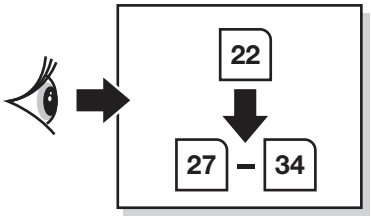
OPTION 2



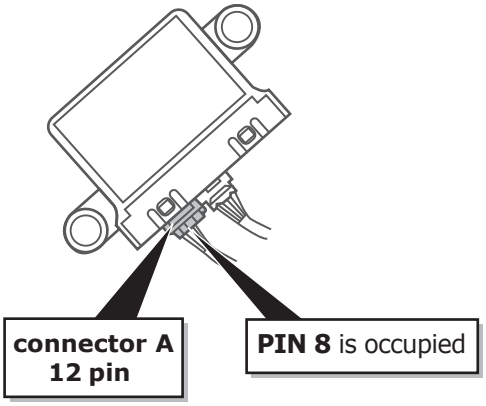


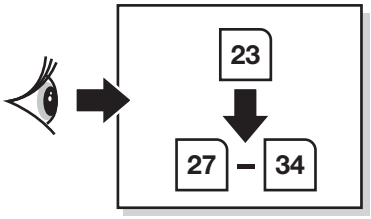
Option 2A





Option 2B





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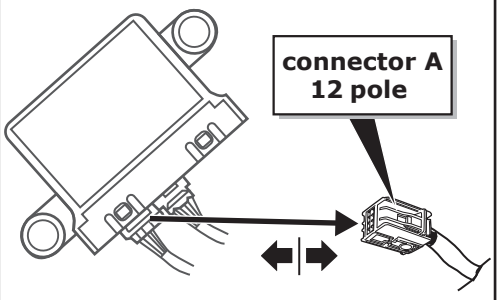
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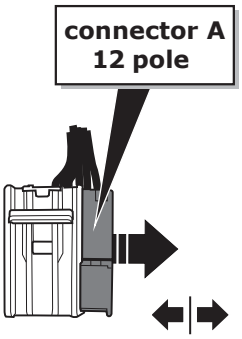
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Option 2A (PIN 8 is free)

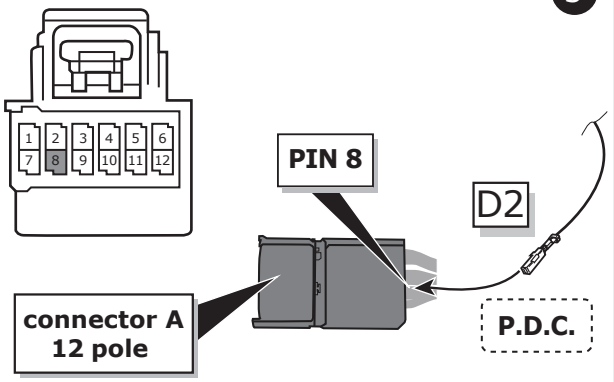
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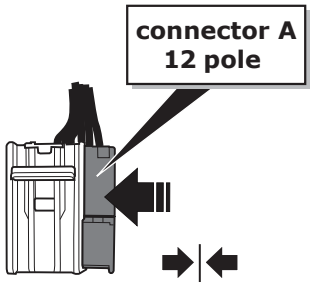
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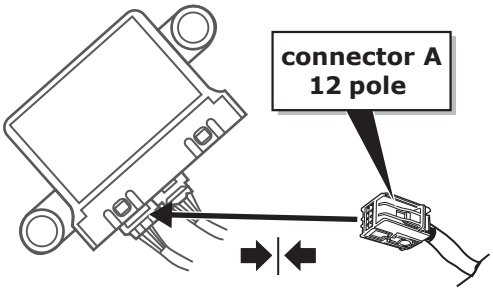
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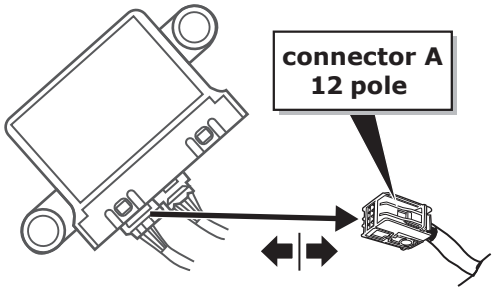
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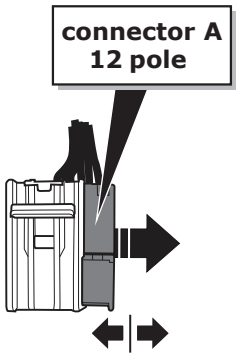
22

Option 2B (PIN 8 is occupied)

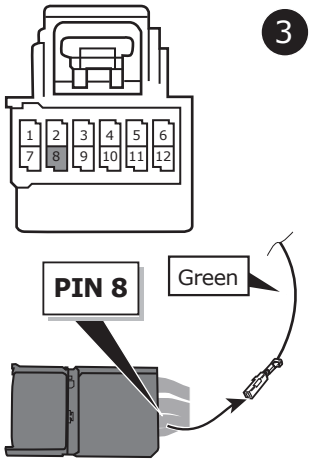
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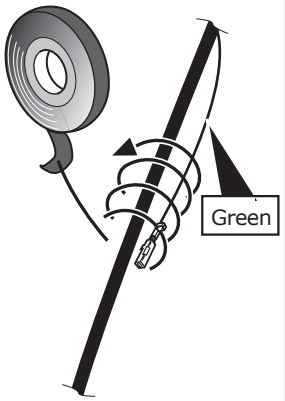
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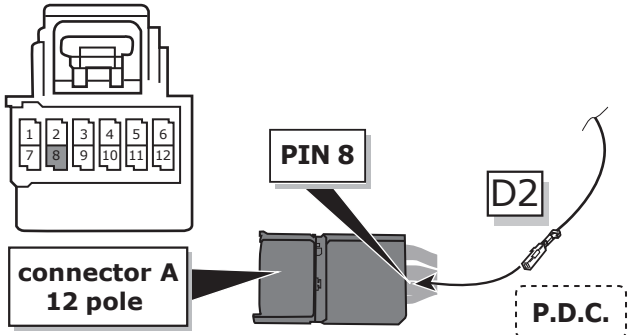
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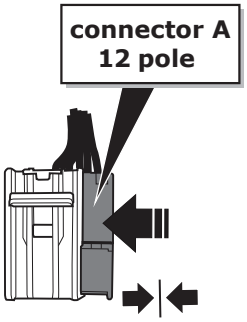
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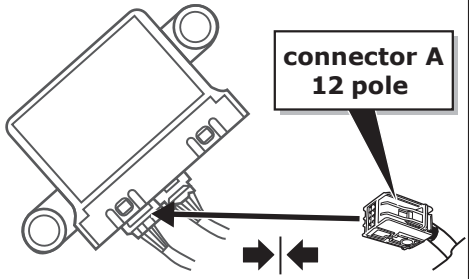
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7



23

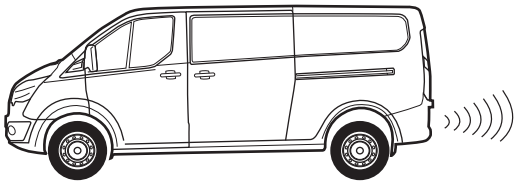
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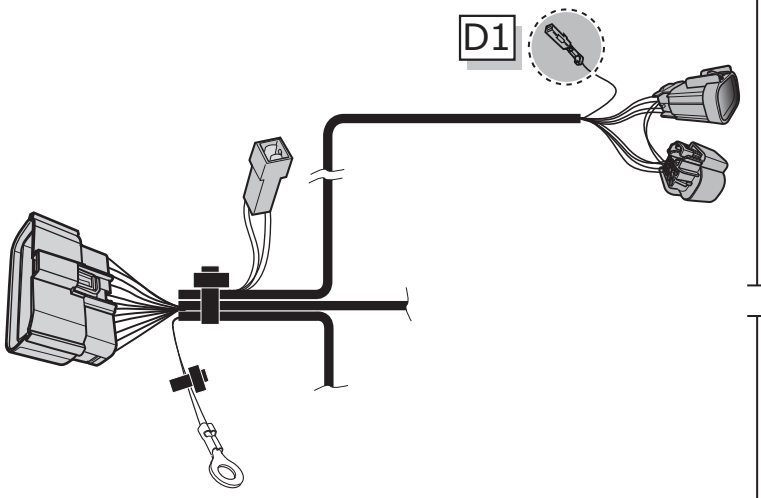
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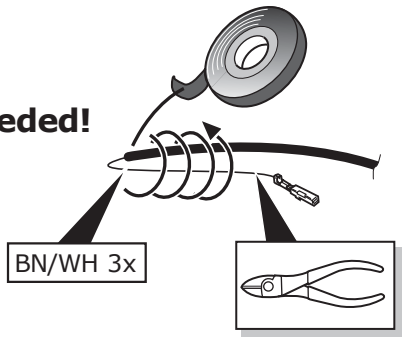
OPTION 3



Vehicles with PDC and factory fitted trailer preparation (Fiat order code 4HB)

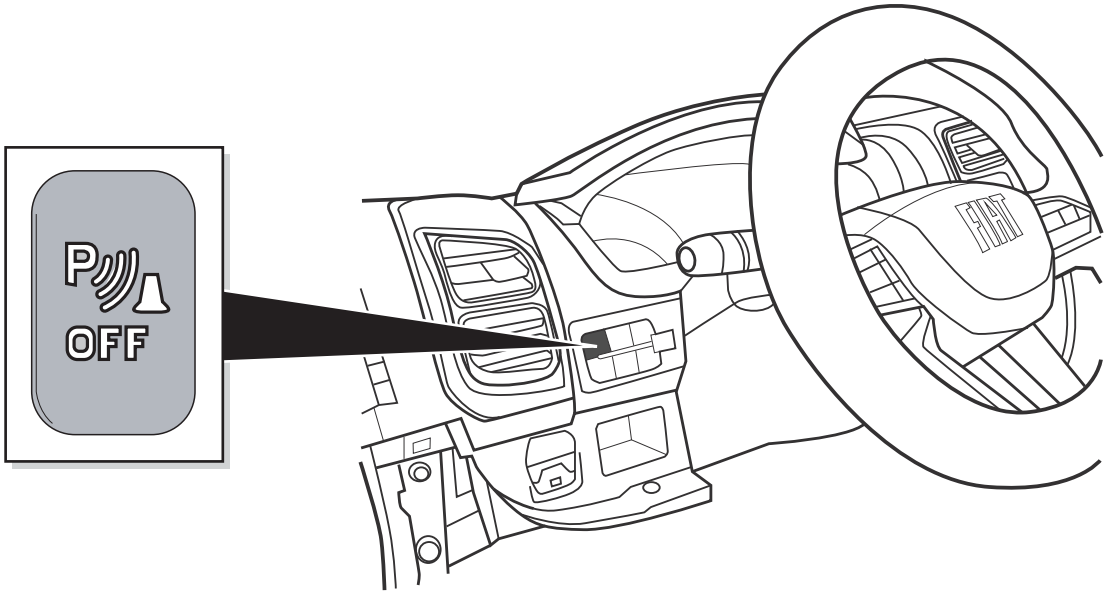


Not needed!



24

OPTION 3



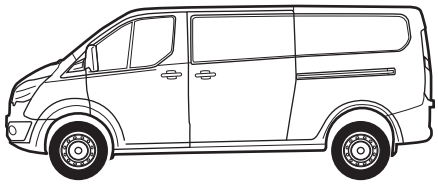
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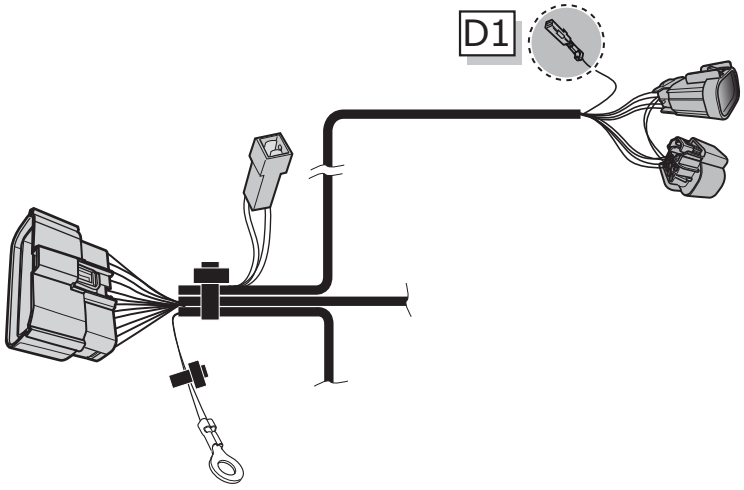
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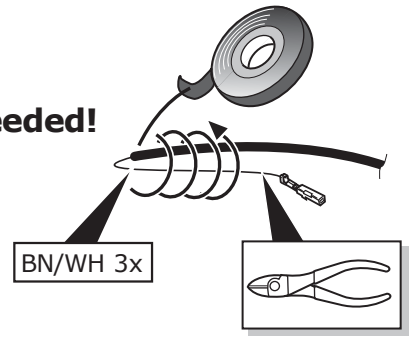
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Vehicles without park distance control (P.D.C.)

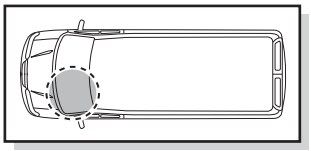


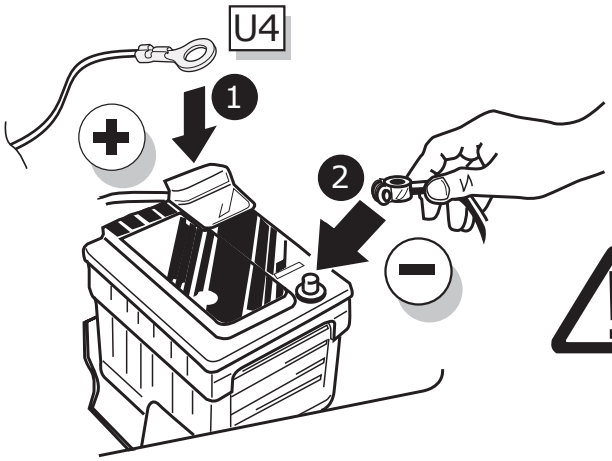
Not needed!





26







27

Optional

Right Connections
towbar wiring kits for the uk



Trailer Simulator for 7- and 13-pin Sockets

28

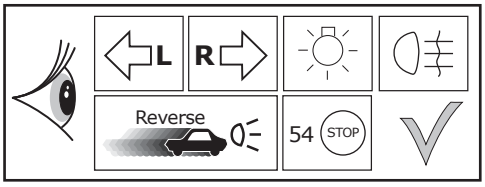
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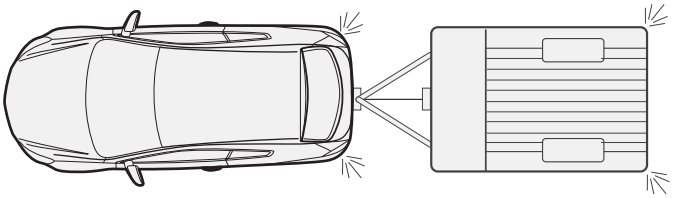
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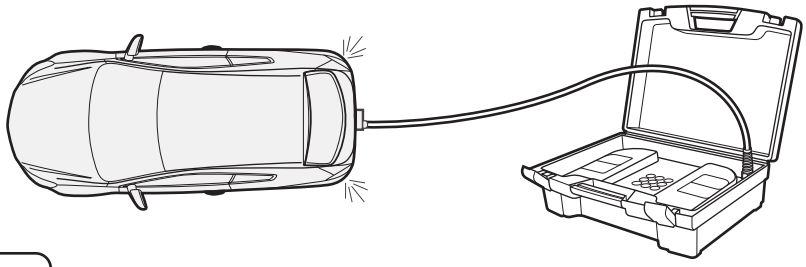
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Functional test



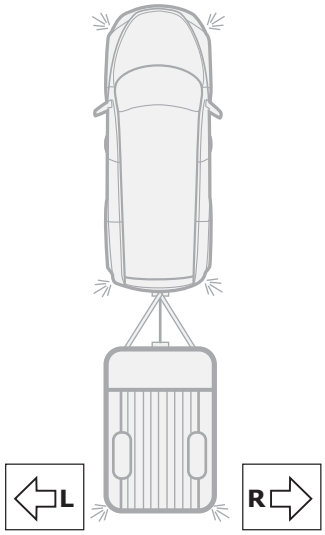


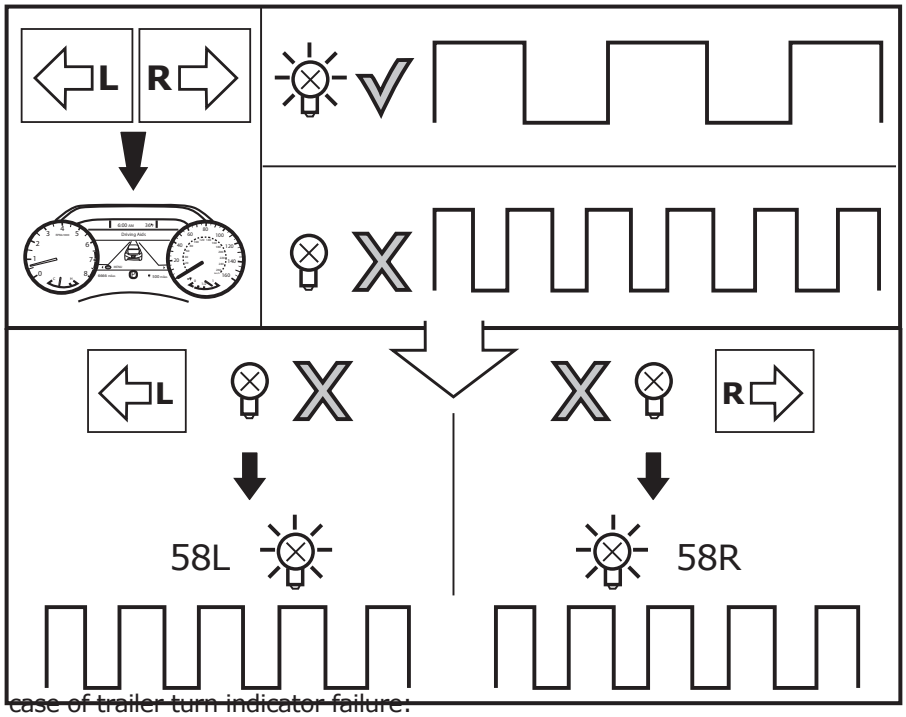


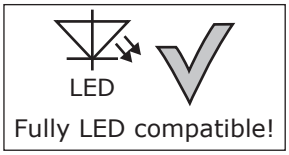


29

Trailer turn indicator failure – display & indicator light substitution







In case of trailer turn indicator failure:
Corresponding tail light will take over the indicator light function.

C2 *Turn Indicator Substitution*

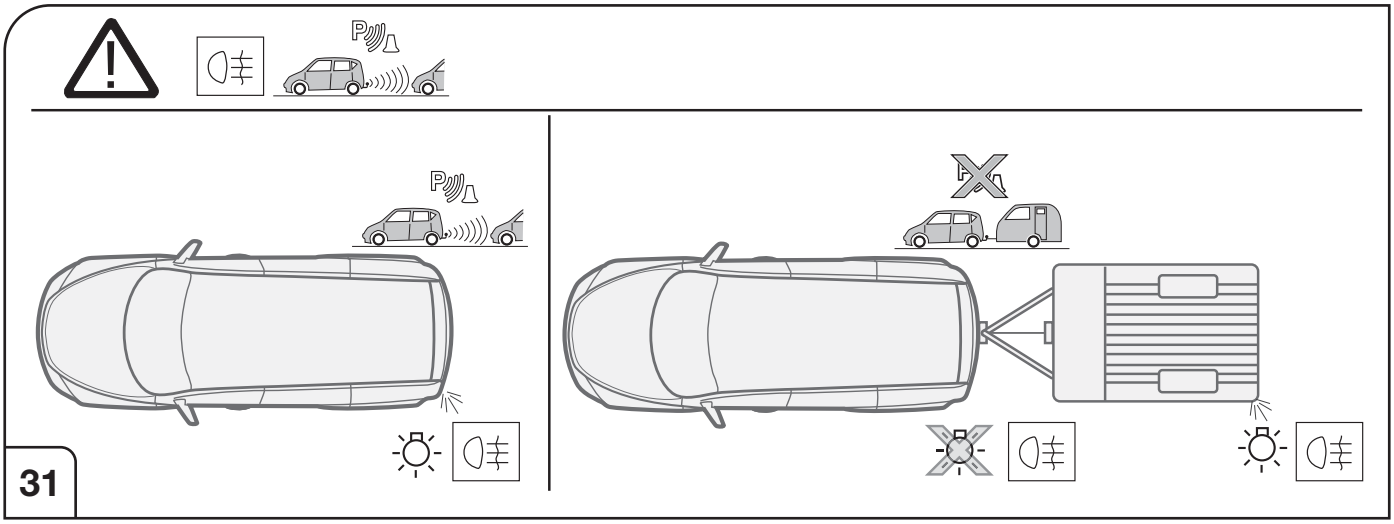
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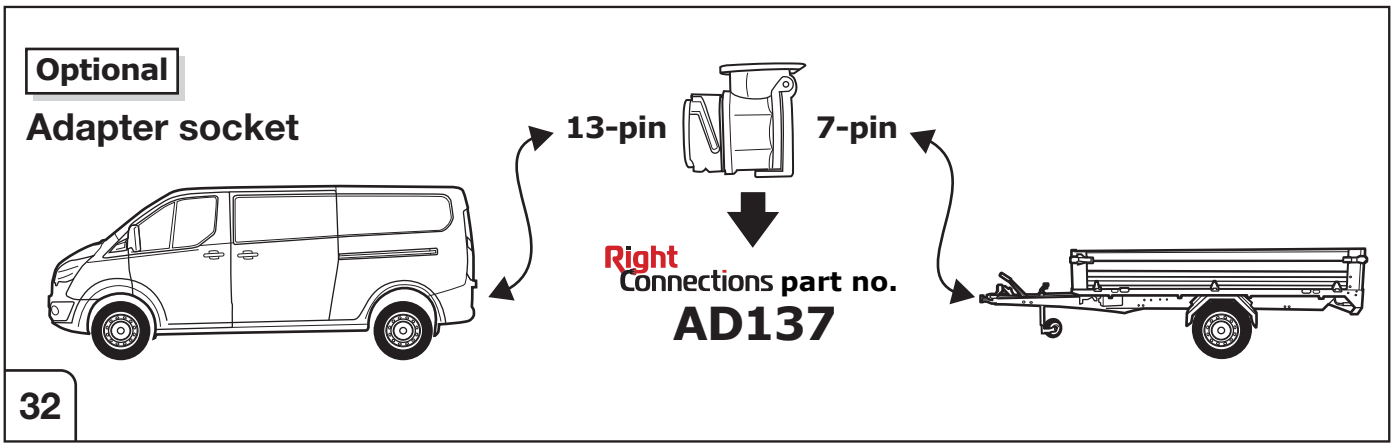
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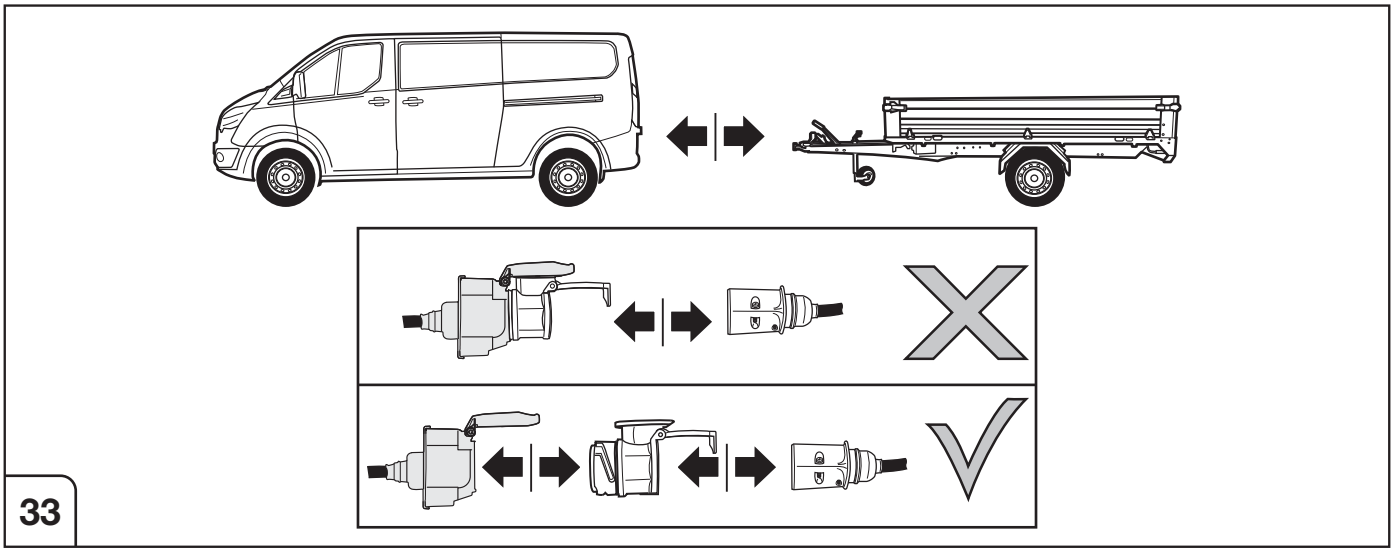
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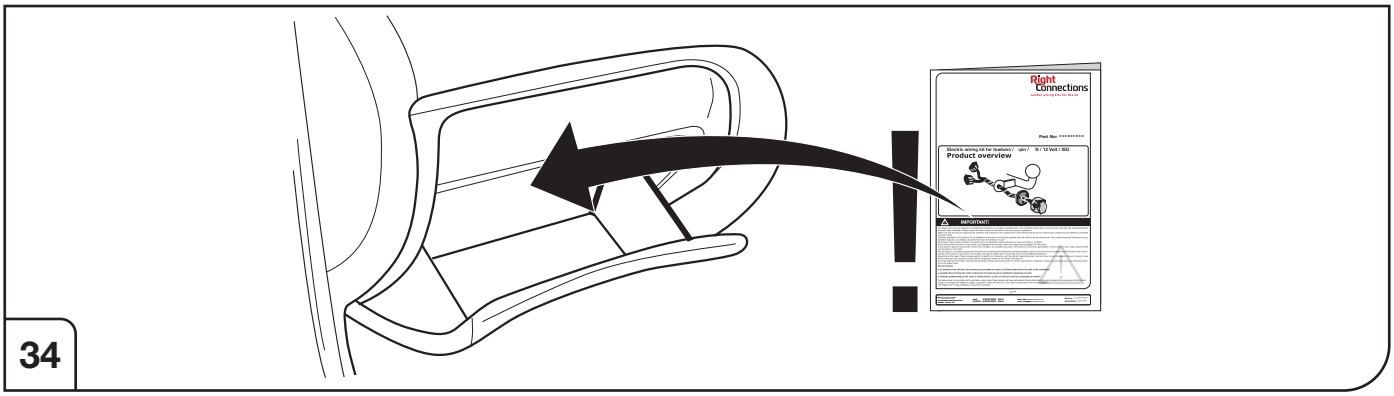
31



32



33



34

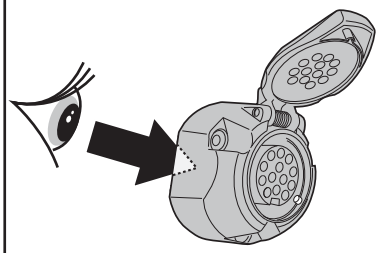
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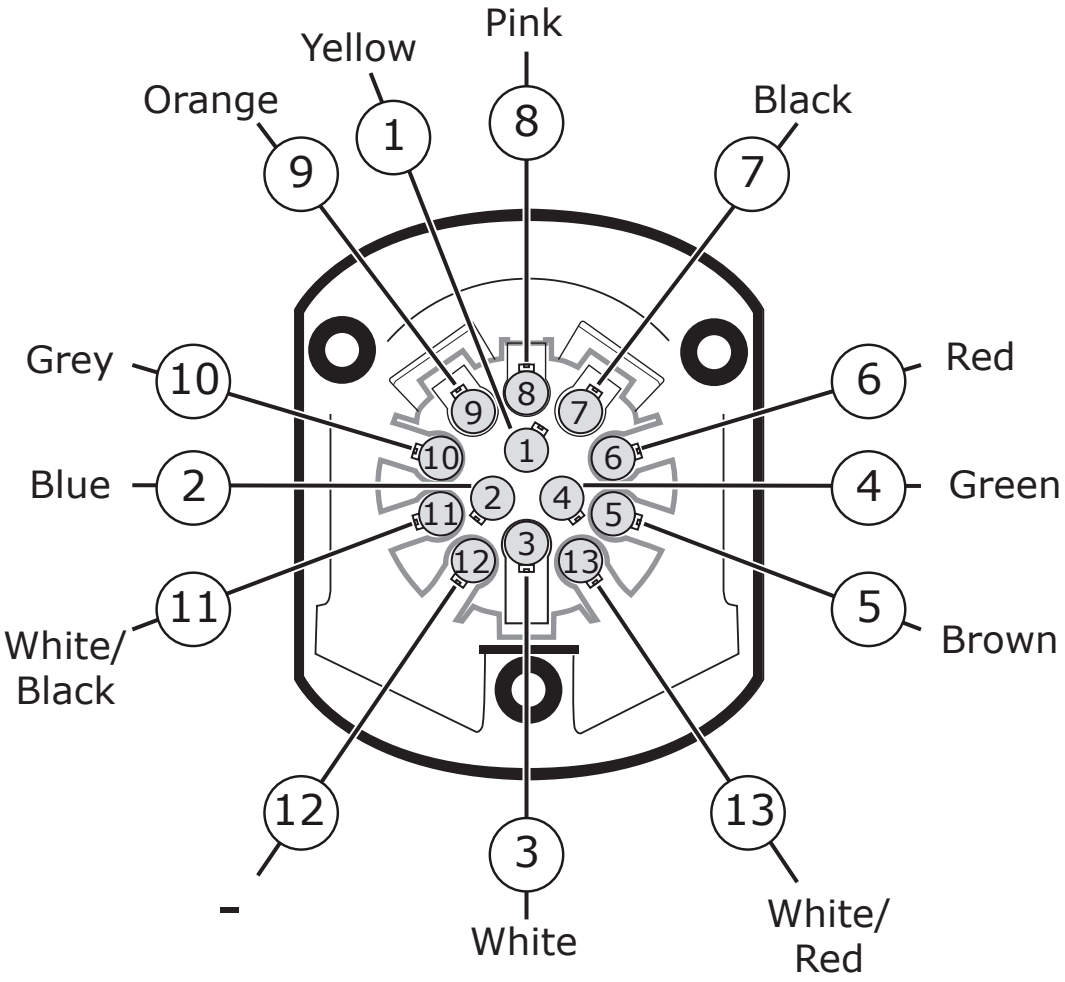
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SOCKET CONNECTION





SOCKET CONNECTION

									Optional: Right Connections part no. FI050ZZC				
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	52W	3x21W	52W	21W	180W/15Amp.	180W/15Amp.			
Colour	Yellow	Blue	White	Green	Brown	Red	Black	Pink	Orange	Grey	White/ Black	-	White/ Red

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