



towbar wiring kits for the uk

HYUNDAI

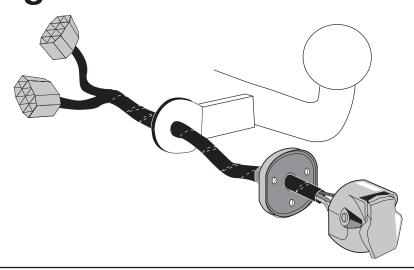
Santa Fe (TM) Santa Fe Hybrid Santa Fe Plug-in Hybrid

07/2018 >> 08/2024 01/2021 >> 08/2024 01/2021 >> 08/2024

Part No: HY-126-13

Only for vehicles with trailer preparation.

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

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

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!

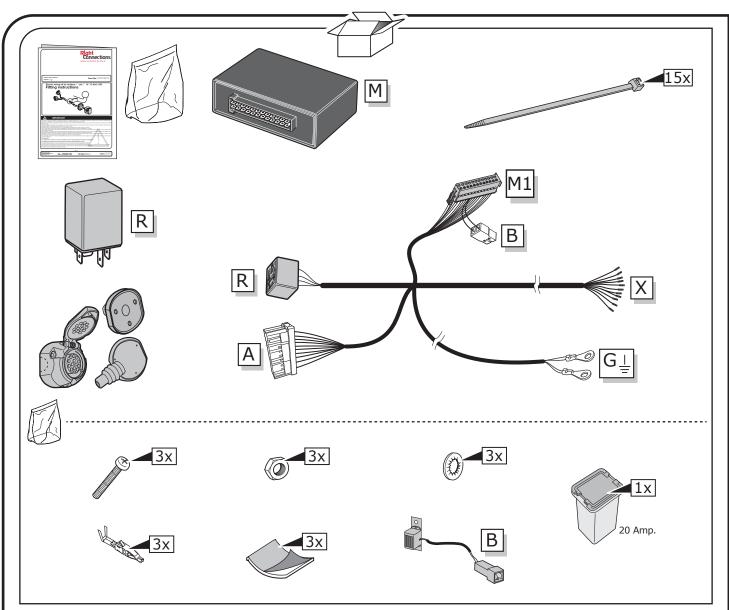
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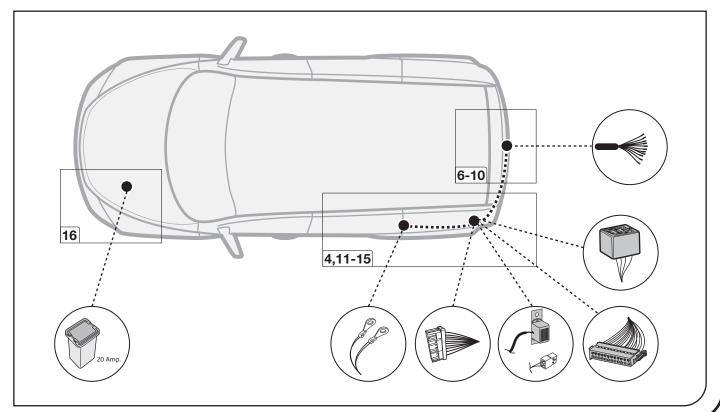
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HY-126-13





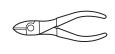
SYMBOL EXPLANATION

Left (58-L) respectively Right (58-R) tail light
Stop light (54) / high mounted, third stop light (54)
Turn signal indicator left
Turn signal indicator right
Rear fog light(s)
Reversing light(s)
Permanent power supply / 13pin socket, chamber 9
Charging wire for trailer battery / 13pin socket, chamber 10
Trailer / trailer recognition
Permanent current power supply
Ground or Earth (31)
Ground connection battery terminal lug
Positive connection battery terminal lug

(12V)	Cigarette lighter / accessory socket
	Loudspeaker / buzzer
	Park Distance Control
-/-	Switch / source of function
→	Connect together
+	Disconnect
4	Look at / See further information
	Look carefully at selected area
\bigvee	Present / Occupied / OK
\mathbb{X}	Not present / Not occupied / Not OK
D ((((Acoustic indication
\triangle	Attention / important advice
20 Amp.	Fuse / fuse capacity 20 Ampère

TOOLS





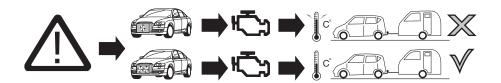






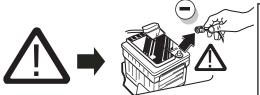






ATTENTION!

The vehicle's cooling capacity may have to be increased when retrofitting a trailer coupling! You must observe the manufacturer's instructions!!



Note: It may be necessary to check if this vehicle has a stored radio code before disconnecting the battery!



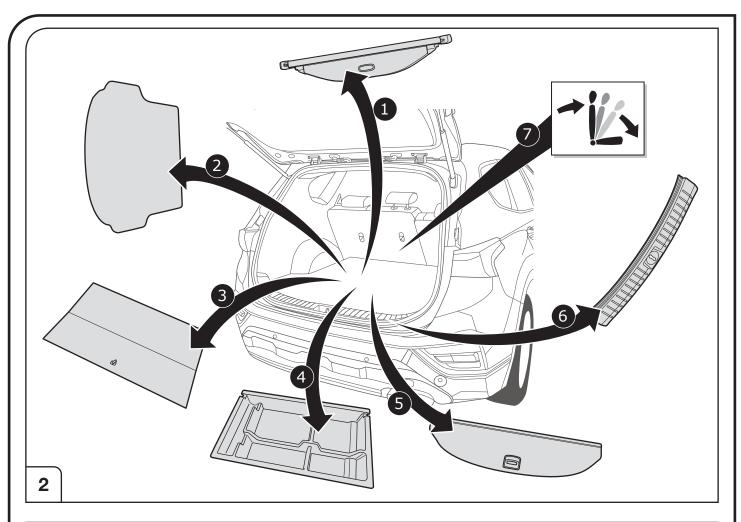
ATTENTION!

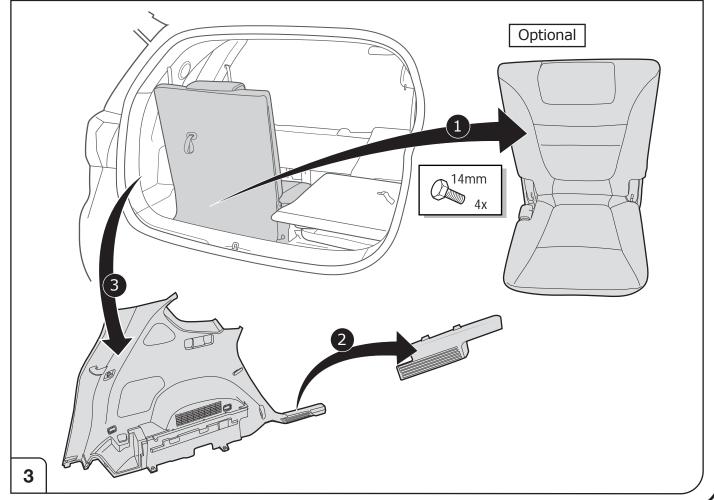
In order to avoid mal-functions and damage to the vehicle's electrical system the earth terminal **must be disconnected** from the vehicle's battery **before starting work!**

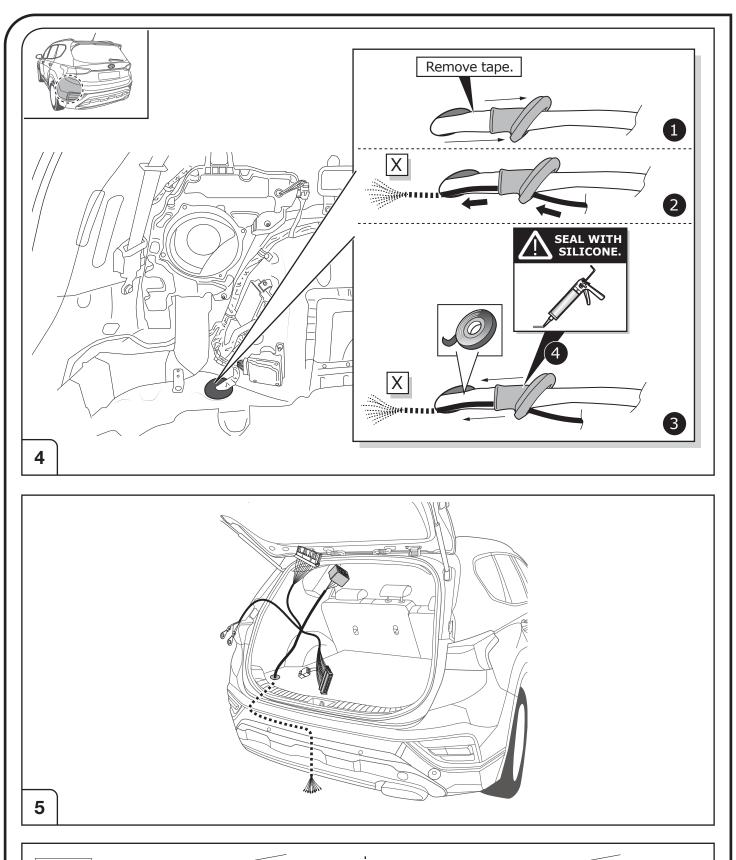
Both the trailer module and the vehicle's control unit for the electrical system can be damaged during work on the data bus connections if the battery is not disconnected!

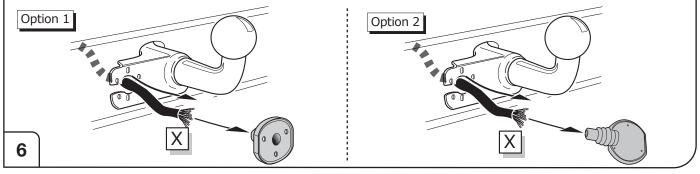
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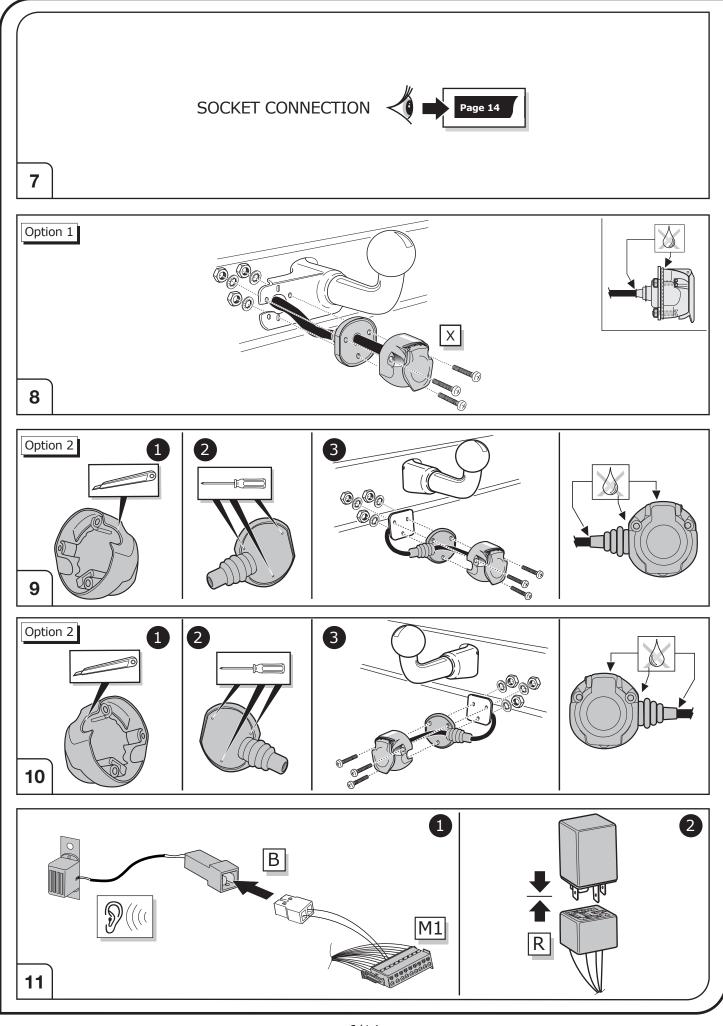
Please pay attention to the manufacturer's instructions when disconnecting and reconnecting the vehicle's battery!

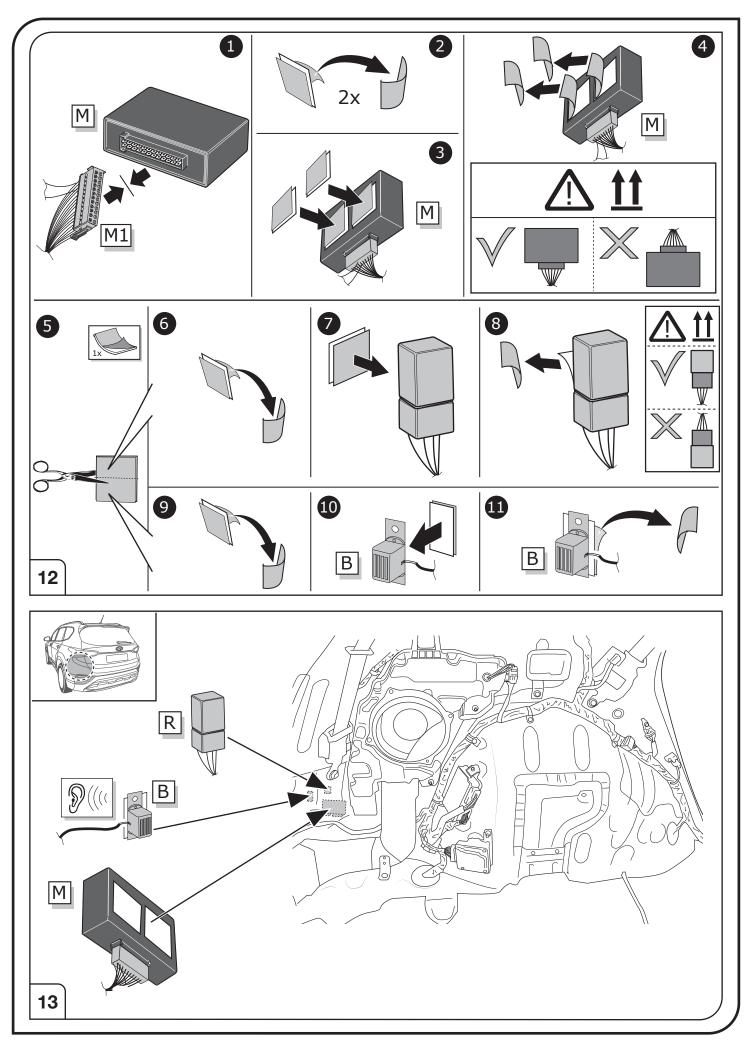


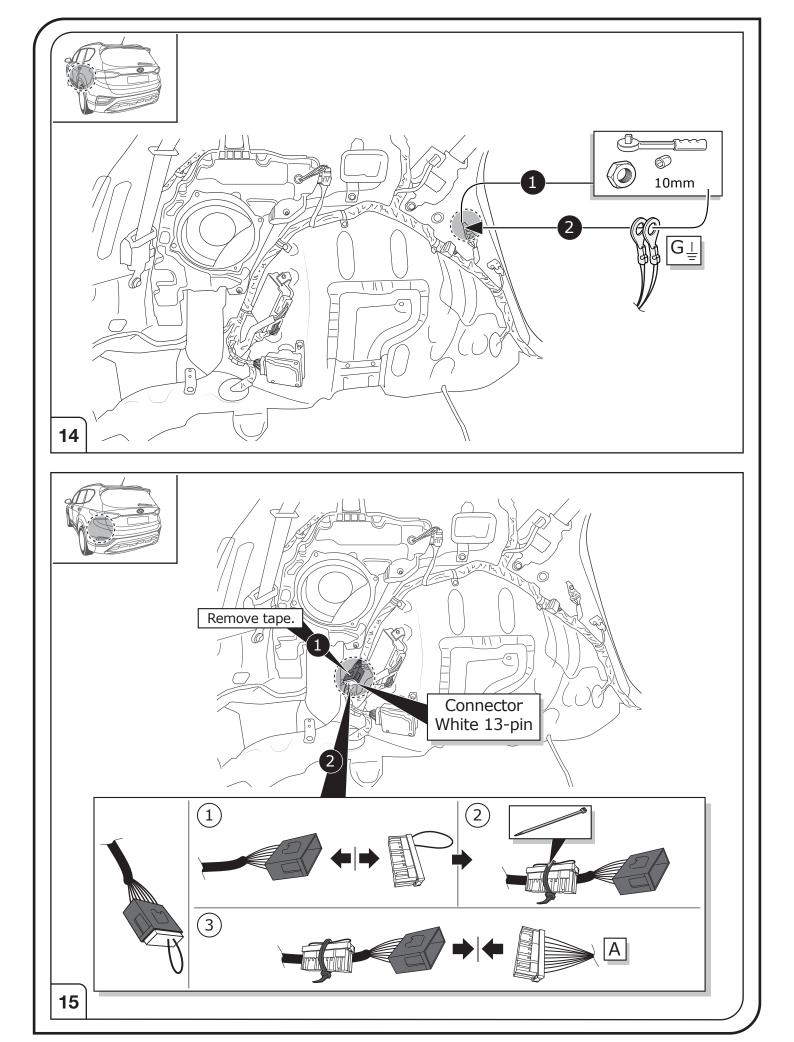


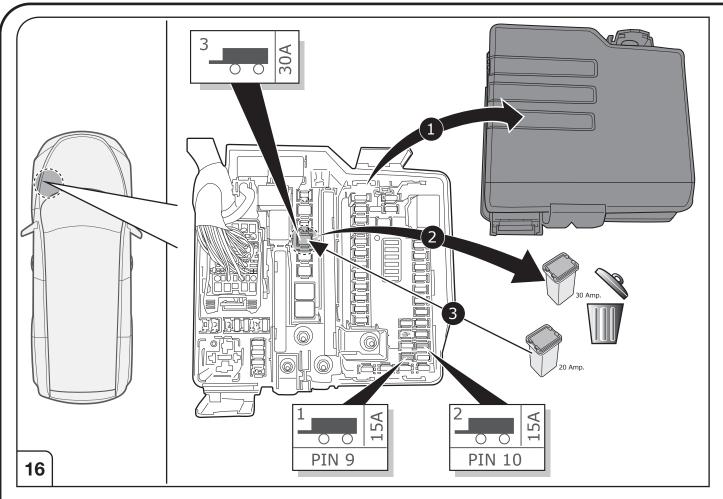


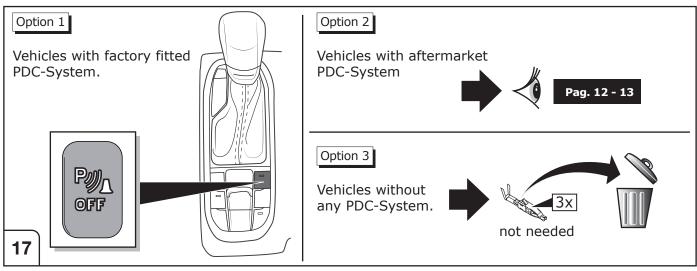


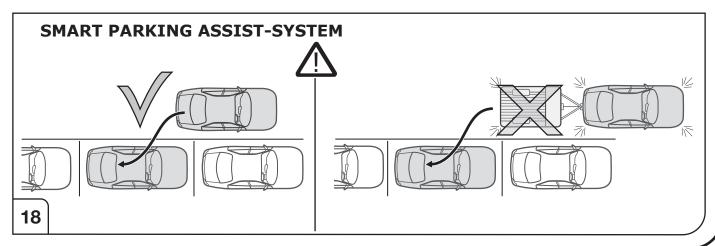












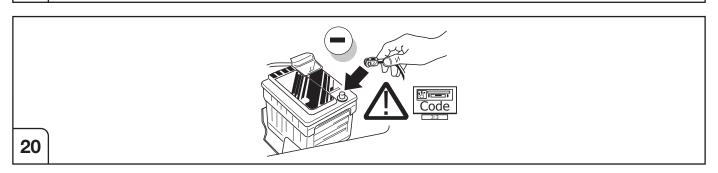
IMPORTANT!

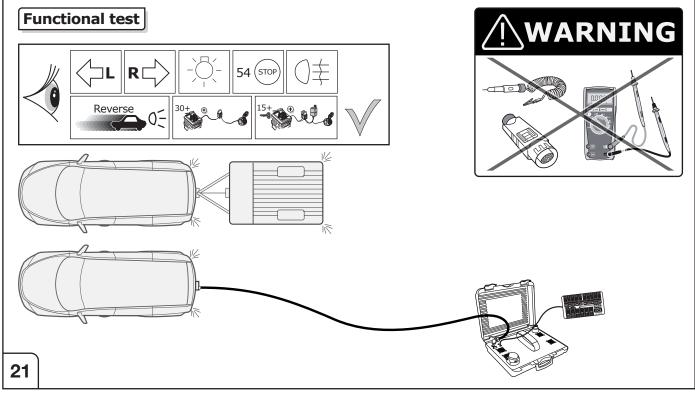
The Voltage Control Module (VCM) in this kit is designed to be self switching at a pre-set voltage input. With the engine started, the switched output (e.g. caravan fridge or alternative), pin 10, will switch on at a preset figure of 13,5 volts.

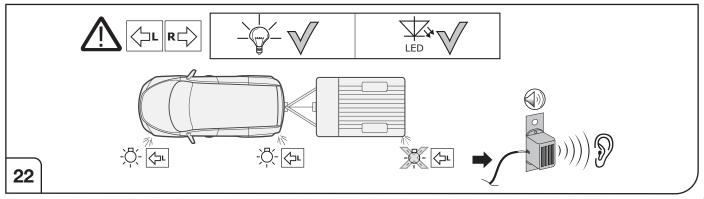
When the engine is switched off, the switched output will remain live until the vehicle battery voltage drops to a preset figure of approx 12,5 volts.

NOTE: The cut-off voltage depends on the condition of the vehicle battery, power consumption of the fridge etc. In all cases, the cut-of figure is preset so the vehicle engine can be started at any time.

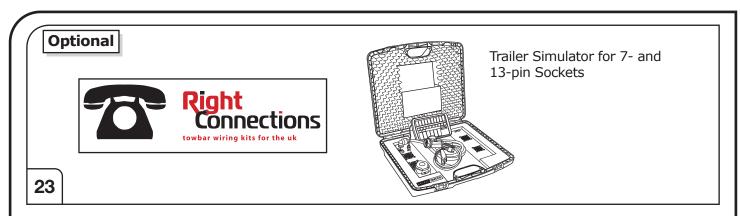
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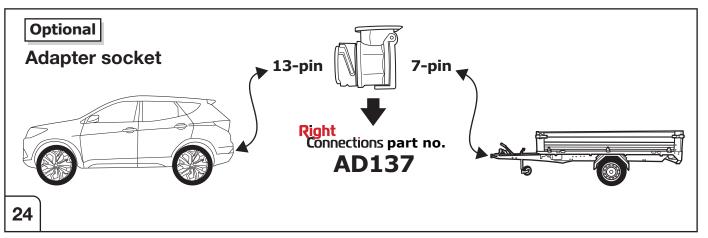


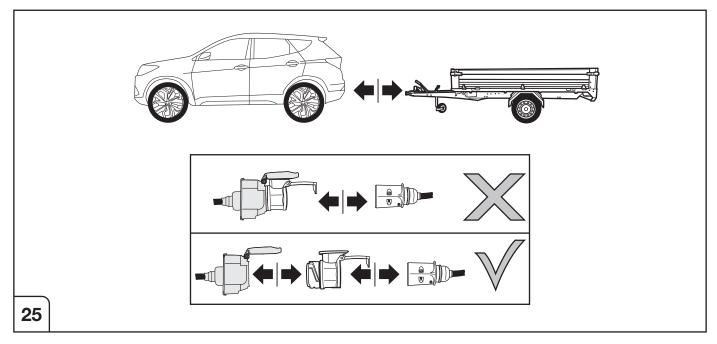


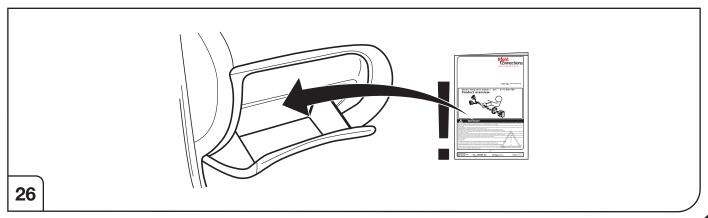


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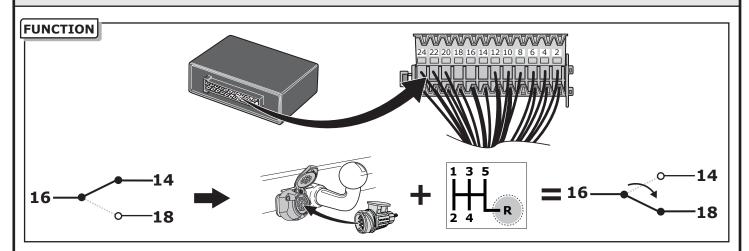






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AUTO PARK-SENSOR SWITCH-OFF FUNCTION



INFO





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

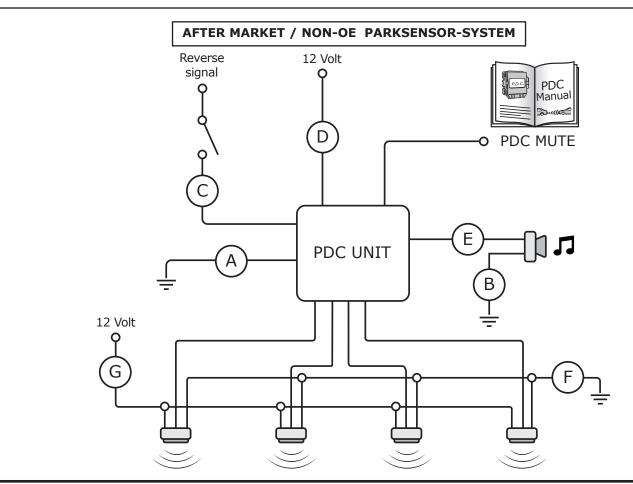
OPTION 1 When the PDC-system has no specific MUTE wire: Locate and cut the wire at ONE of the locations A-G and connect to the ECS

Towbar Wiring Kit as shown in Option 1. Always check if cutting the wire at the selected location does not create any errors in the PDC-system or the vehicle, if so, then select another location. In this case the cut wire is connected and the system operates normally. When the trailer is connected. This wire becomes disconnected by the Trailer Module. If the same module also controls the Front Sensors then use only locations F or G to prevent the front sensors switching off.

OPTION 2 When the PDC-system has a specific **MUTE** wire: Check in the manual of the PDC-system which input the PDC module requires to switch off the system (+12v **or** Earth trigger). Then connect the Trigger wire of the PDC system to pin 16 of the ECS connector, and connect the required feed (+12v **or** Earth) to pin 14 and 18.

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

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



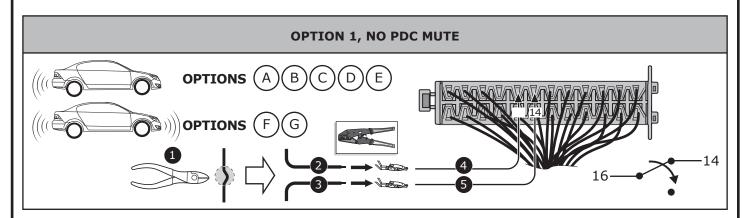
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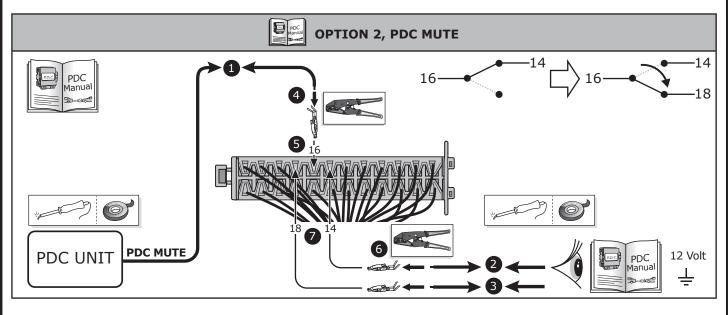
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AUTO PARK-SENSOR SWITCH-OFF FUNCTION





SOCKET CONNECTION Yellow Pink Yellow Black Orange 1 8 7 Grey 10 9 8 7 Blue 2 11 2 4 5 4 Green White/ Black White/

SOCKET CONNECTION

White

DIN/ISO	Ģ L	()≢	0 ‡ ~ → →0 ‡	≟1-8	R➪	-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	STOP	- <u>`</u> Ö-	Reverse 0	30+	15+	≟10	_	≟ 9
11446	1/L	2	2a	3/31	4/R	5/58-R	6/54	7/58-L	8	9	10	11	12	13
Pmax	21W	42W			21W	42W	3x21W	42W	21W	180W	180W			
Colour	Yellow	Blue	Blue/ Black	White	Green	Brown	Red	Black	Pink	Orange	Grey	White/ Black	-	White/ Red

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Red

Blue/Black