

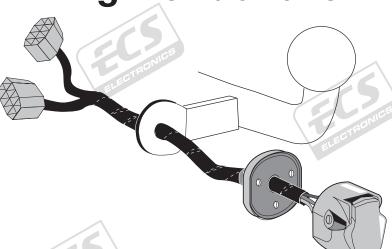
SSANGYONG

Korando C300 09/2019 >> Tivoli X150 09/2019 >>

Part No: SY-022-13U

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

Fitting instructions







IMPORTANT!

This electric kit has to be installed by a professional workshop or a suitable qualified person.

The installation instructions must have been read and fully understood before the start of any installation. Please contact your wiring kit provider or the hotline shown in the footer

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.

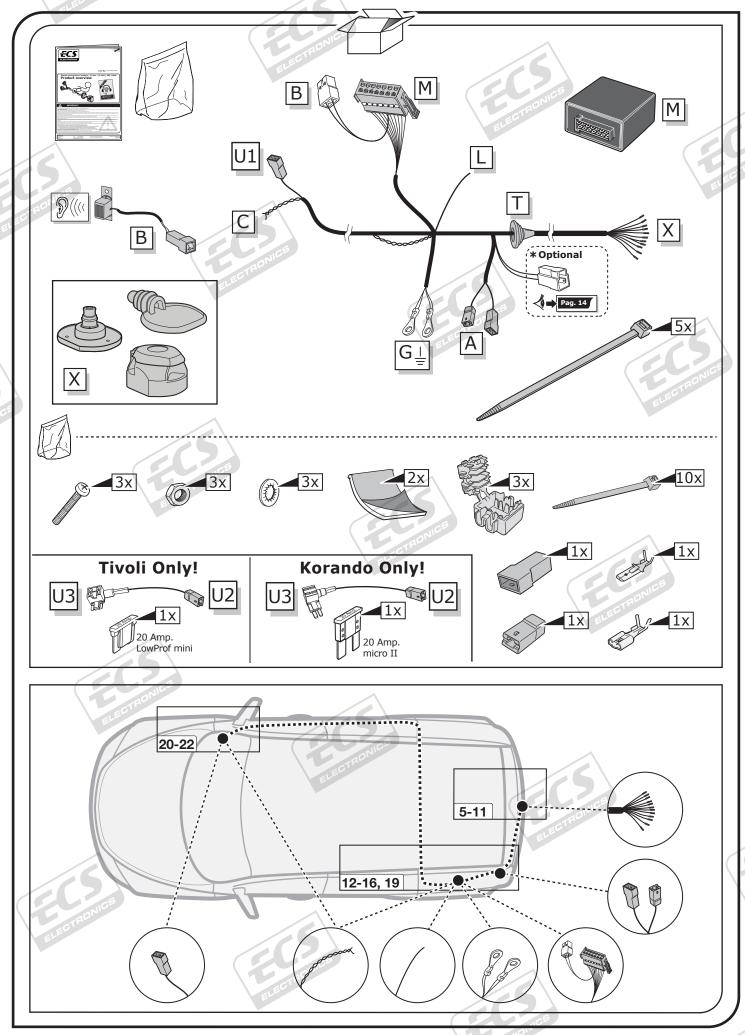
All of the data and illustrations may not be an exact representation but the text contained in this instruction must be observed!

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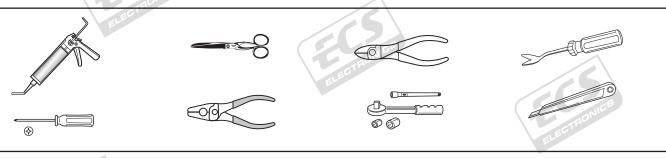


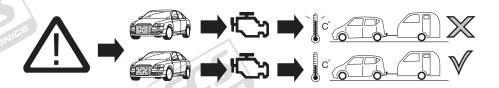
SYMBOL EXPLANATION

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) Reverse 0 Reversing light(s) Permanent power supply / 13pin socket, chamber 9 Charging wire for trailer battery / 13pin socket, chamber 10 Trailer / trailer recognition B+/30 Permanent current power supply Ground or Earth (31) Ground connection battery terminal lug Positive connection battery terminal lug								
high mounted, third stop light (54) Turn signal indicator left Turn signal indicator right Rear fog light(s) Reverse 0 Reversing light(s) Permanent power supply / 13pin socket, chamber 9 Charging wire for trailer battery / 13pin socket, chamber 10 Trailer / trailer recognition B+/30 Permanent current power supply Ground or Earth (31) Ground connection battery terminal lug	-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							
Turn signal indicator right Rear fog light(s) Reverse 0 Reversing light(s) Permanent power supply / 13pin socket, chamber 9 Charging wire for trailer battery / 13pin socket, chamber 10 Trailer / trailer recognition B+/30 Permanent current power supply Ground or Earth (31) Ground connection battery terminal lug	54 (STOP)							
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Reversing light(s) Permanent power supply / 13pin socket, chamber 9 Charging wire for trailer battery / 13pin socket, chamber 10 Trailer / trailer recognition B+/30 Permanent current power supply Ground or Earth (31) Ground connection battery terminal lug	10° () ‡	Rear fog light(s)						
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Trailer / trailer recognition B+/30 Permanent current power supply Ground or Earth (31) Ground connection battery terminal lug	30+							
B+/30 Permanent current power supply Ground or Earth (31) Ground connection battery terminal lug	15+ •							
Ground or Earth (31) Ground connection battery terminal lug		Trailer / trailer recognition						
Ground connection battery terminal lug	B+/30	Permanent current power supply						
	<u> </u>	Ground or Earth (31)						
Positive connection battery terminal lug	$\overline{\bigcirc}$	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
	Present / Occupied / OK
X CTRU	Not present / Not occupied / Not OK
\$\((()	Acoustic indication
\triangle	Attention / important advice
20 Amp.	Fuse / fuse capacity 20 Ampère

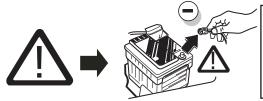
TOOLS





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!



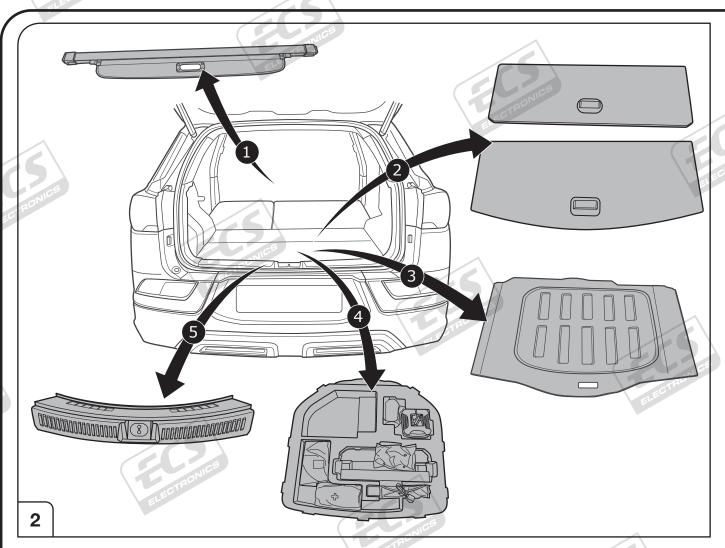
ATTENTION!

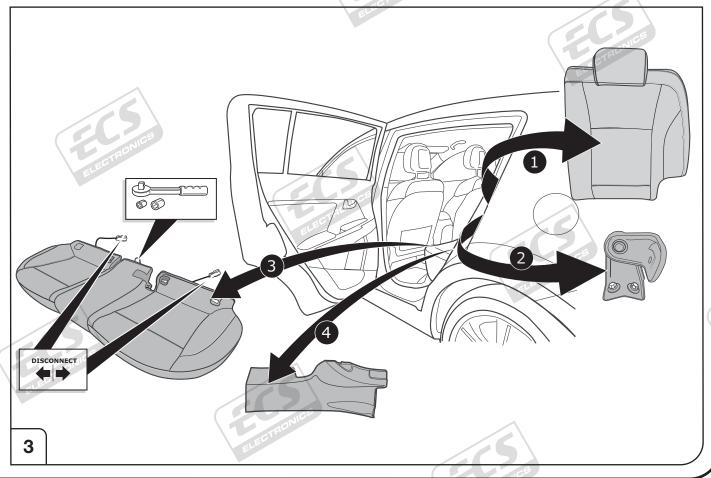
In order to avoid mal-functions and damage to the vehicle's electrical system the earth terminal **must be disconnected** from the vehicle's battery **before starting work!**

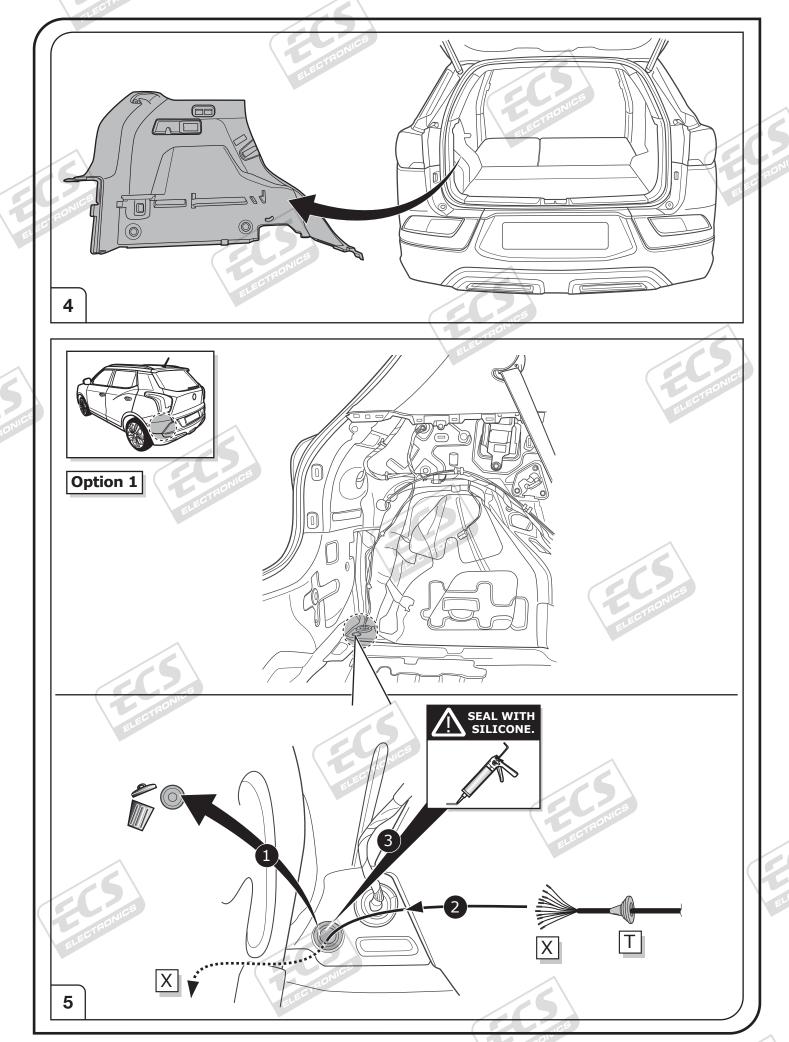
Both the trailer module and the vehicle's control unit for the electrical system can be damaged during work on the data bus connections if the battery is not disconnected!

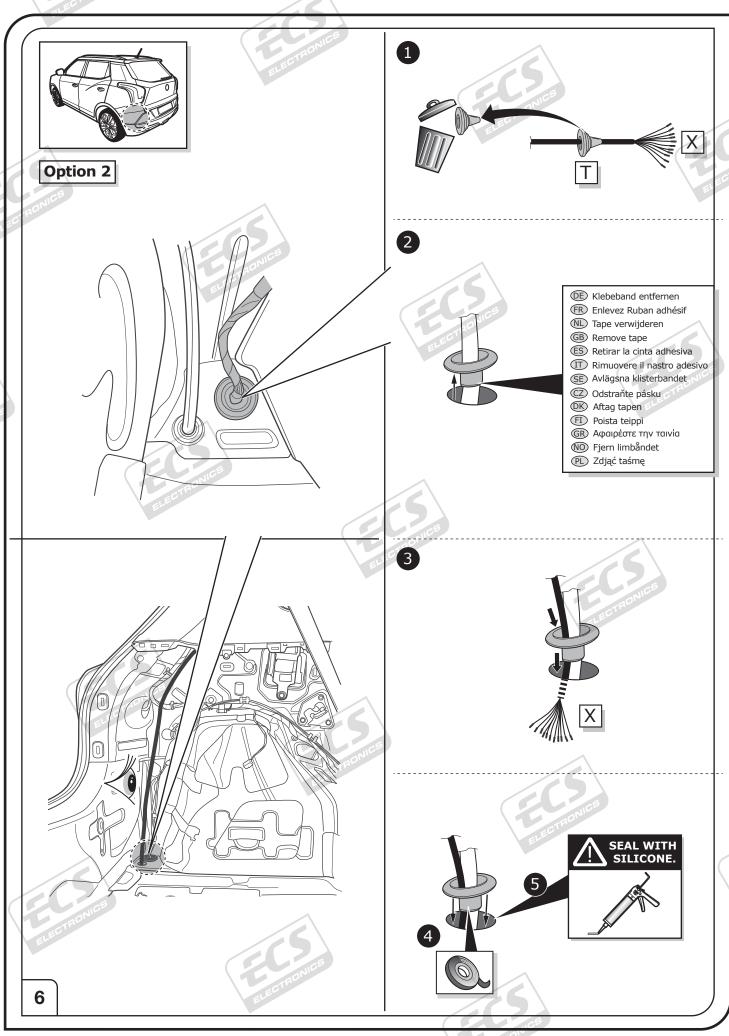
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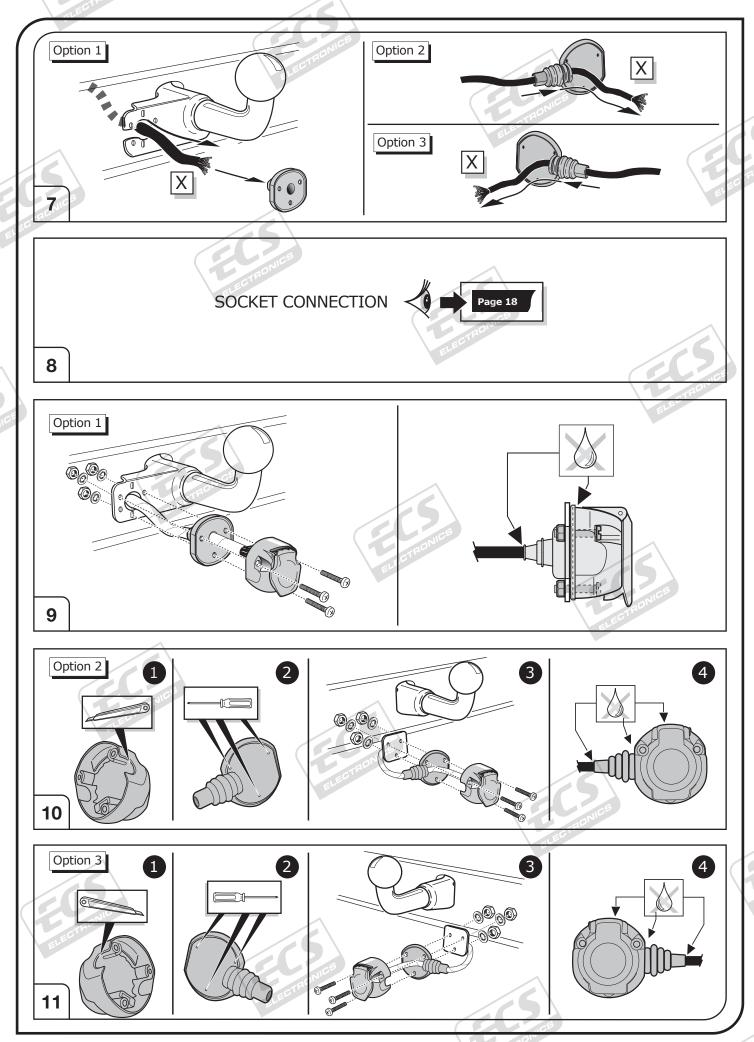
Please pay attention to the manufacturer's instructions when disconnecting and reconnecting the vehicle's battery!

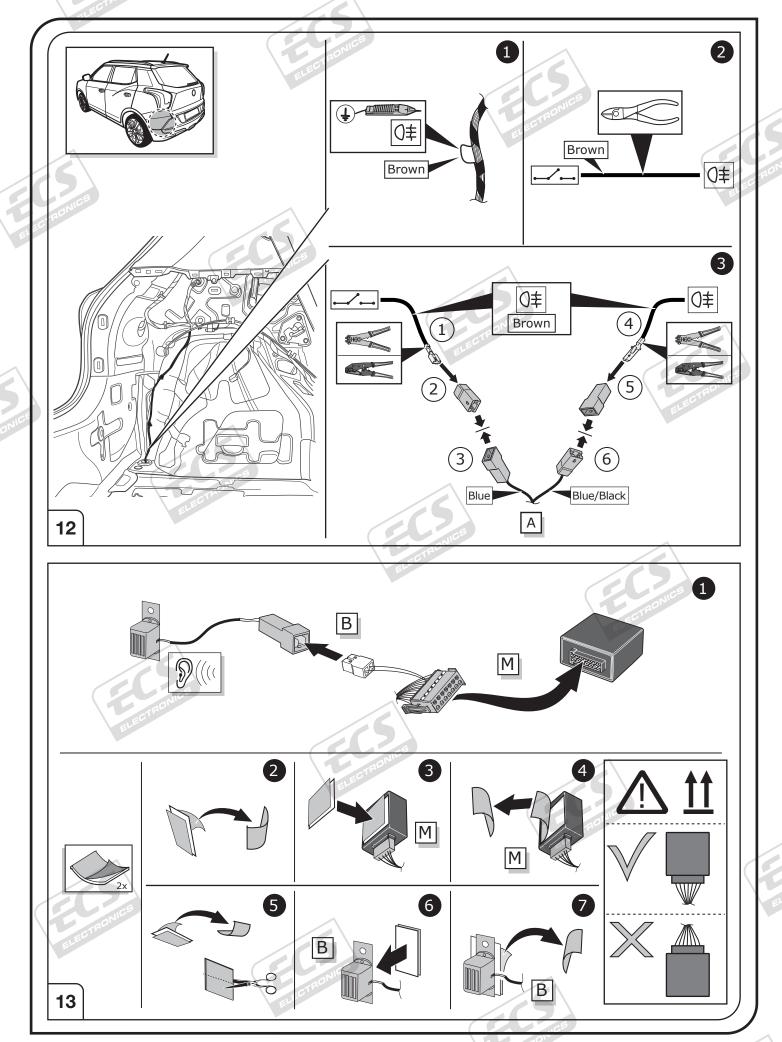


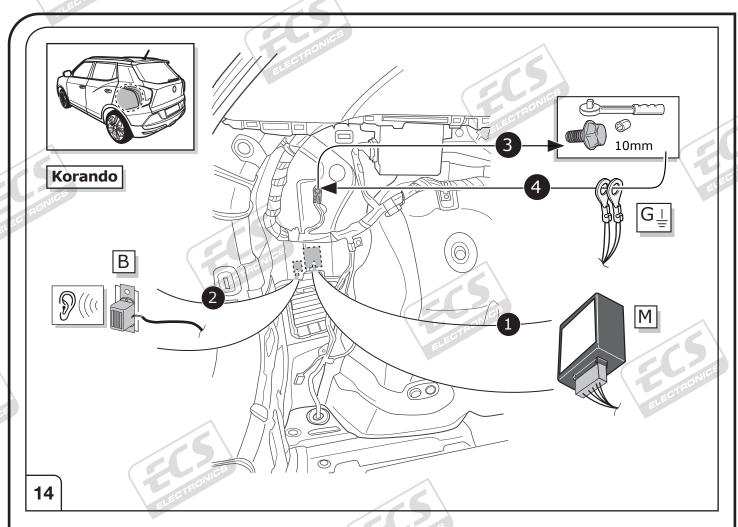


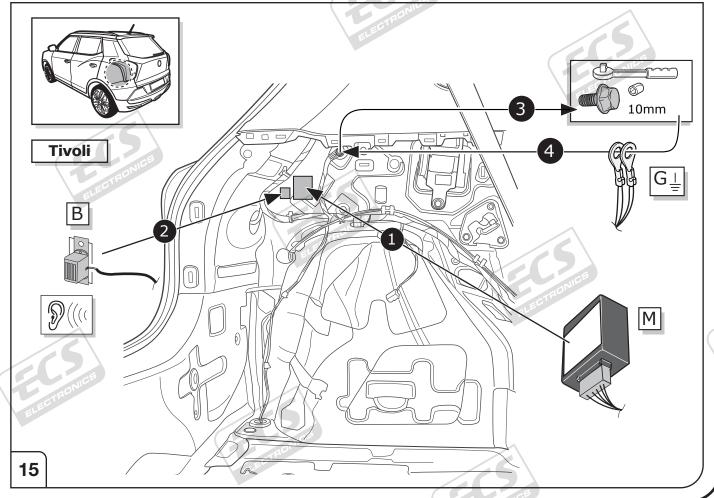


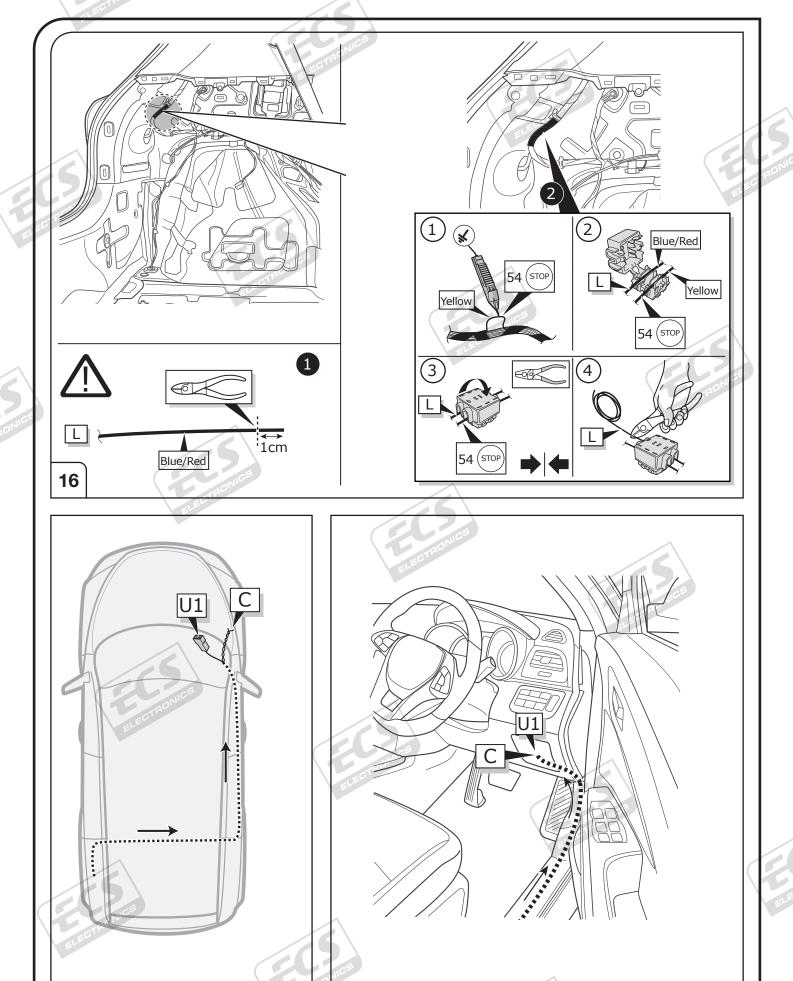






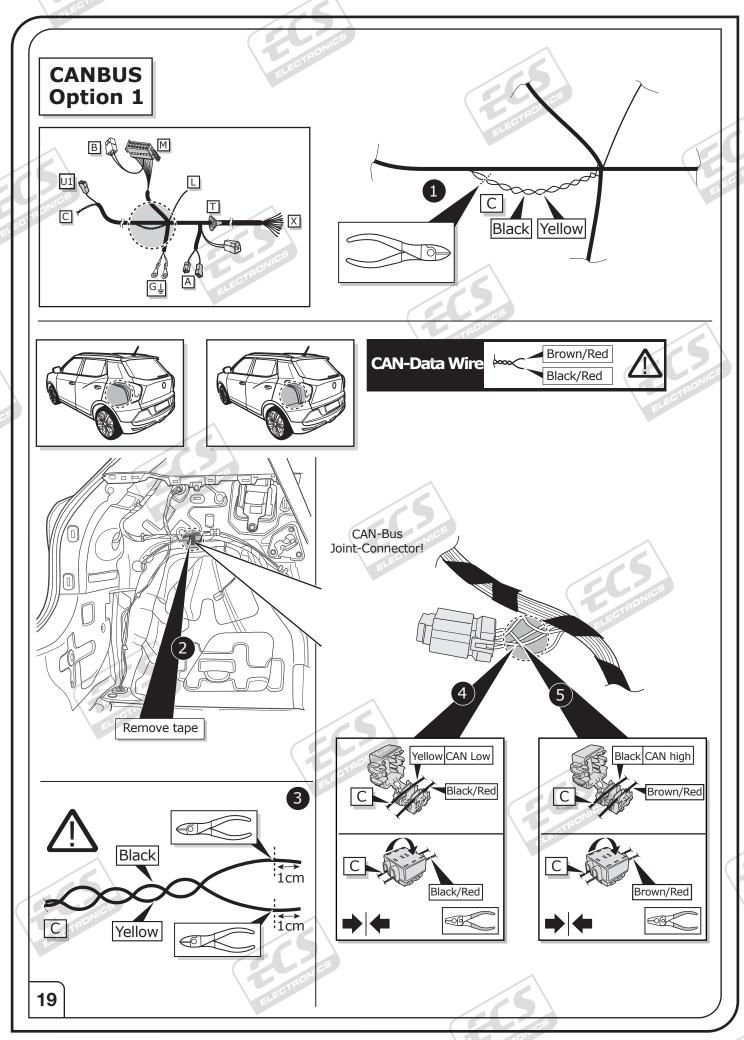


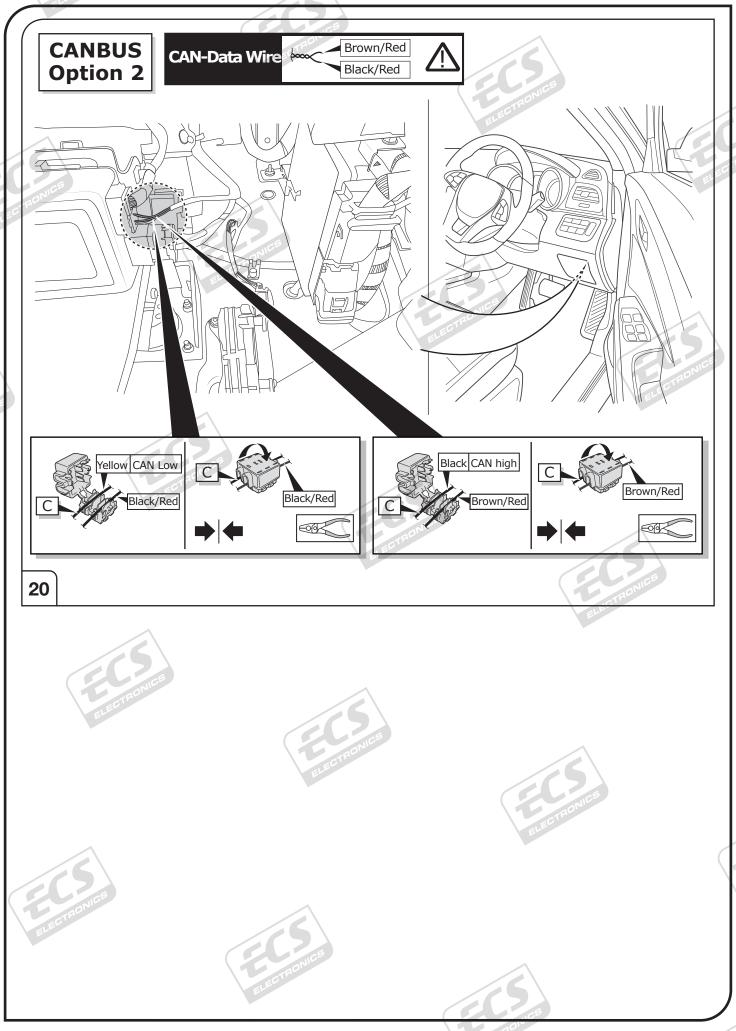


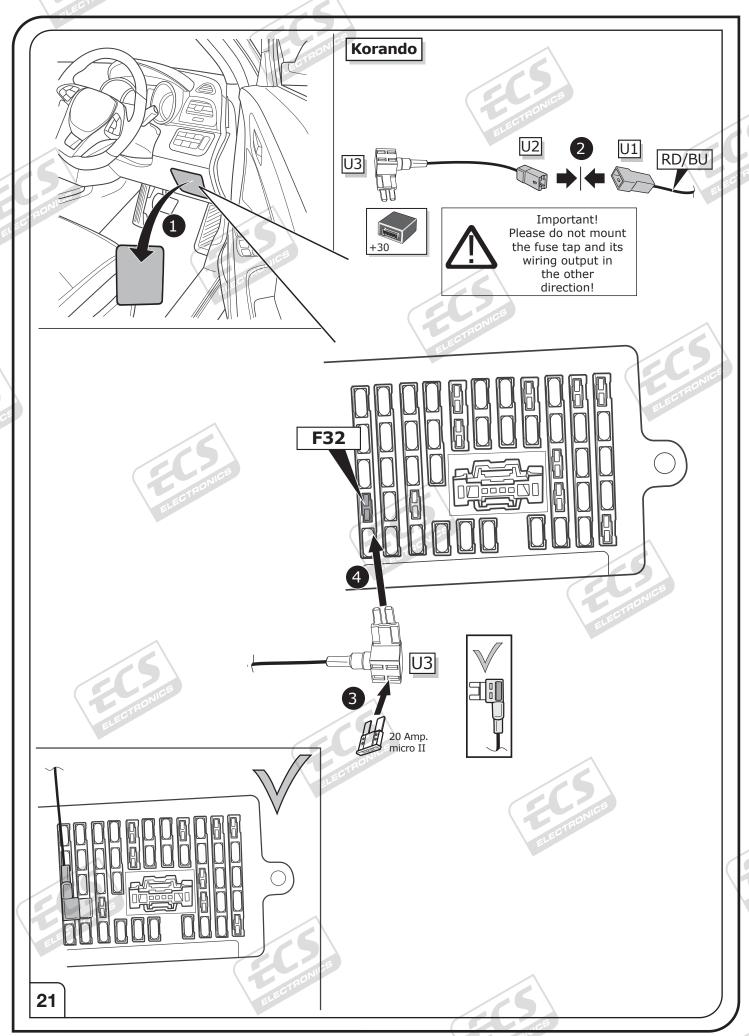


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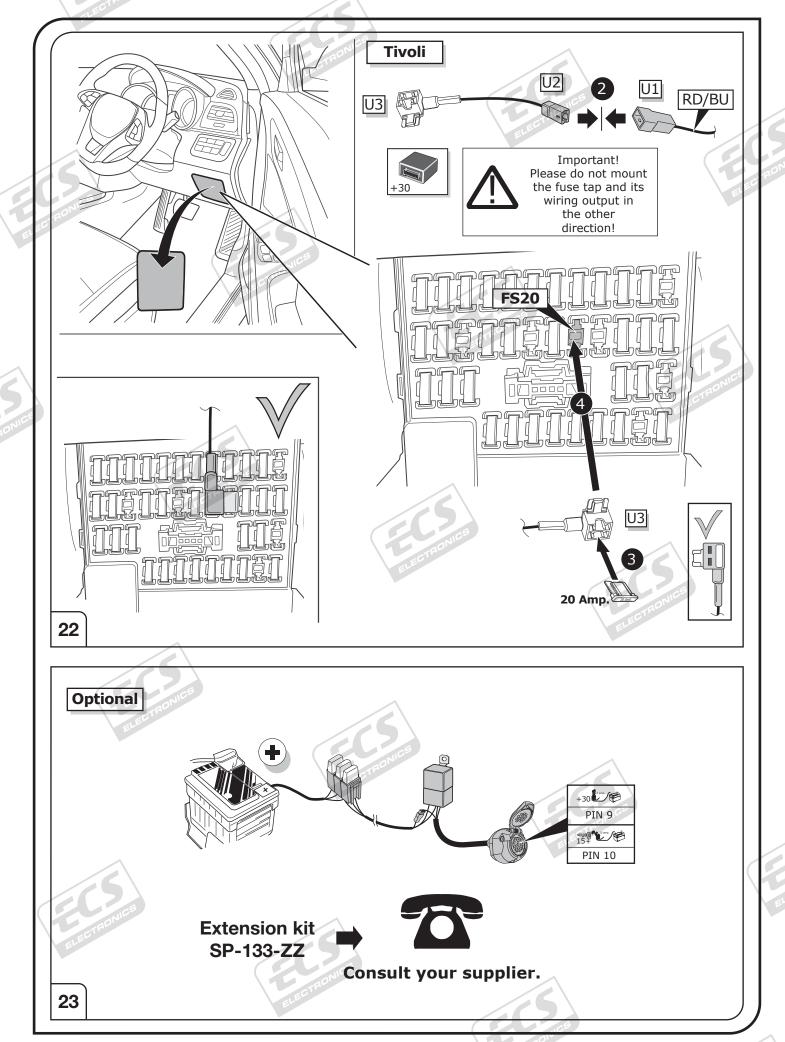


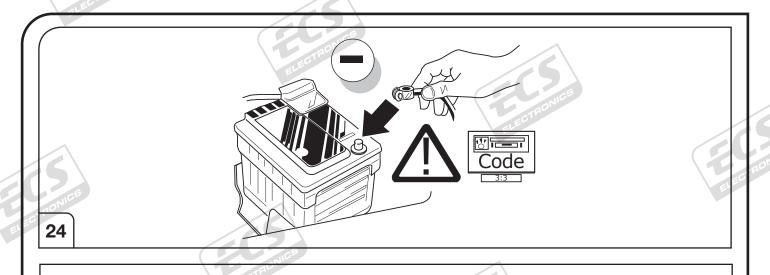




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Optional



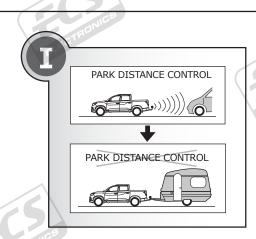
Consult your supplier.



Trailer Simulator for 7- and 13-pin Sockets

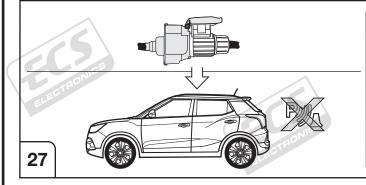
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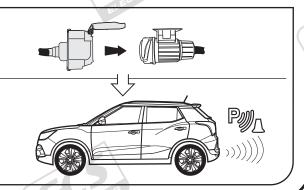




During trailer operations, the rear park distance control will be deactivated automatically. Due to systemic reasons, an acoustic activation indication will be carried out sporadically!

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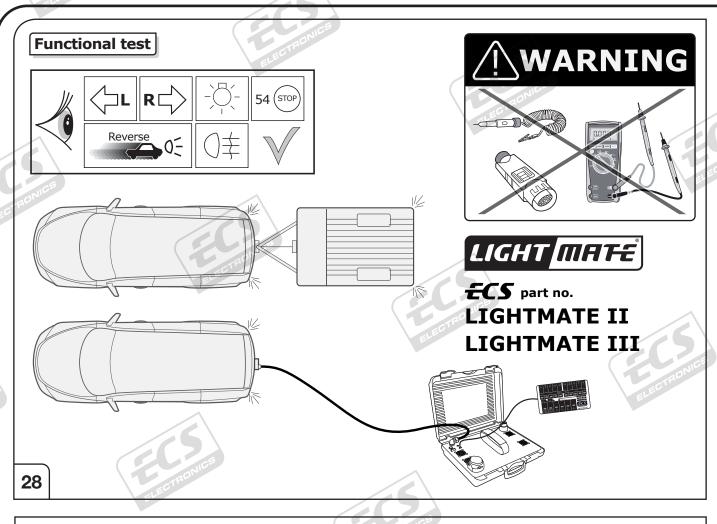


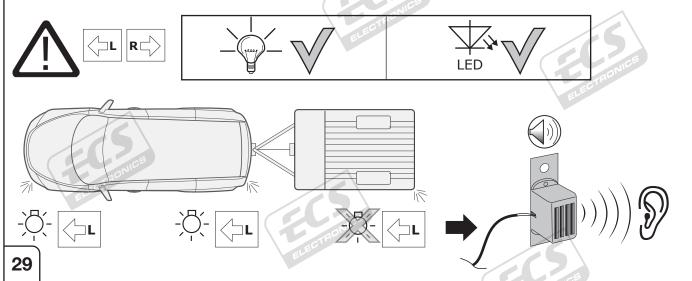


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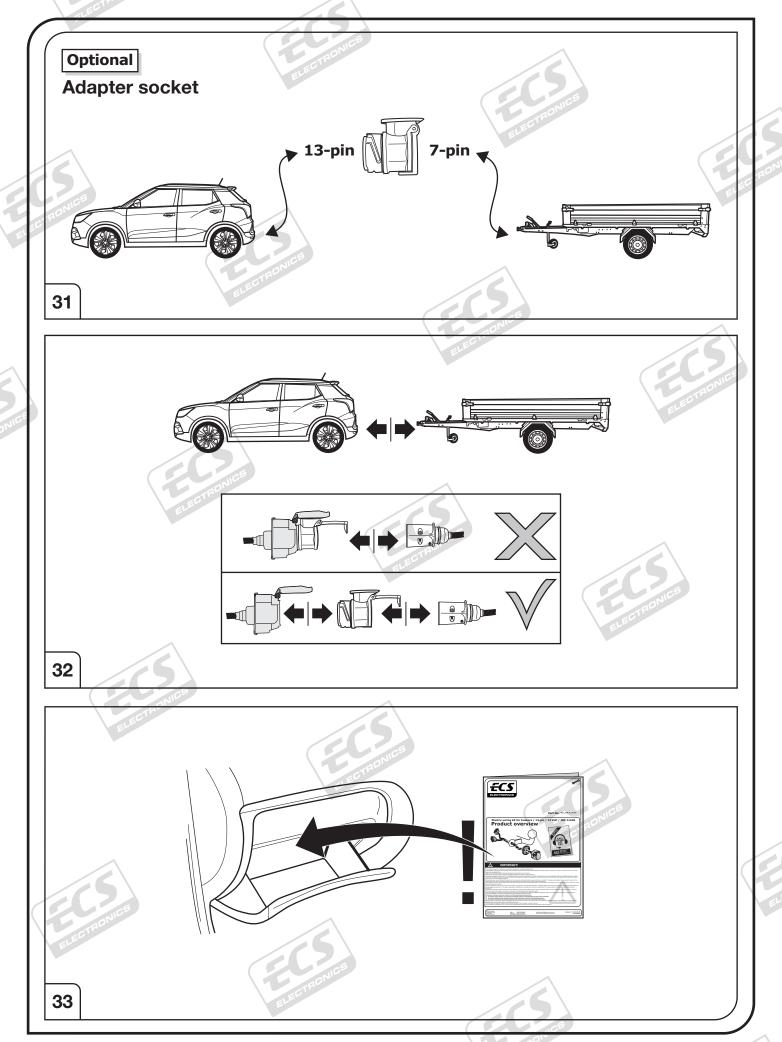
The following light functions for the trailer are **not supported** by all towing vehicles **with DRL circuit:**

- Rear lights
- Side lights
- Numberplate lights

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

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SOCKET CONNECTION Pink Yellow Black Orange Red Grey. 6 (10)Blue 4 Green Brown White/Black White/Red Blue/Black White

SOCKET CONNECTION

DIN/ISO		()≢	Q‡ → • •••	<u></u> 1-8	R□	-\̈̀\-	STOP	-\̈̀\-	Reverse 05	30+	15+ 3 -11-1	≟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	2x21W			21W	42W	3x21W	42W	21W	180W	180W			
Coloui	Yellow	Blue	Blue/ Black	White	Green	Brown	Red	Black	Pink	Orange	Grey	White/ Black	1	White/ Red