

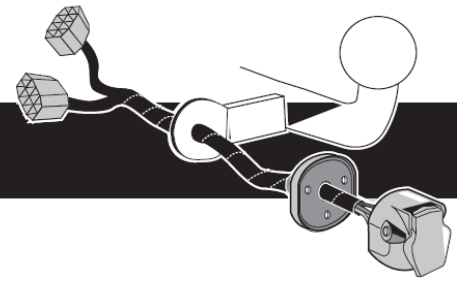
Partnr.: VW-146-B1 VW -146-D1
 VW-190-B1 VW-190-H1

- 1) Always download the latest version of the full manual via the ECS website
<https://catalogue.ecs-electronics.nl>
- 2) Always connect or disconnect the trailer when the ignition switch is turned off.
- 3) Always test the operation of the towbar wiring kit with a trailer tester, bicycle carrier or trailer equipped with normal lamps and load. Do not use a tester with LED lamps or resistors.
- 4) Due to the electronic trailer recognition, the towbar wiring kit cannot be tested with a voltmeter, test-probe or a loose bulb.
- 5) The maximum load of the trailer should never be exceeded. The towbar wiring kit supports trailers with the following maximum loads on the trailer:

Left taillight	2 x 21W
Rear taillight	2 x 21W
Left indicator	1 x 21W
Right indicator	1 x 21W
Brake lights	3 x 21W
Rear fog light	1x 21W
Reversing light	1 x 21W

Content

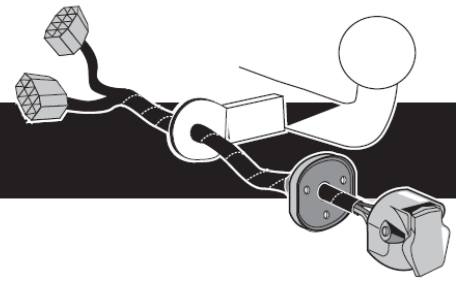
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Questions regarding to connecting the towbar wiring kit

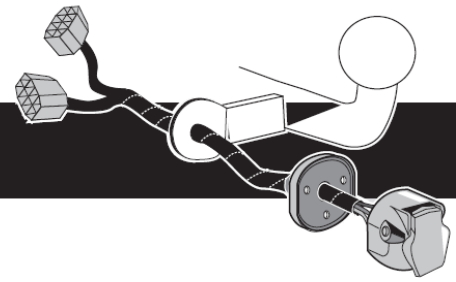
Question	Answer
The manual is unclear or gives too little information.	Download the full manual from the website, https://catalogue.ecs-electronics.nl/
I only found a 12-pin red prepared connector in the rear side of the vehicle, but the cable set has 2 connectors.	The vehicle is of before 05/2014. You require the VW-190-ZZ extension kit to connect the wiring harness.
I can only find 1 connector in the rear side of the vehicle, but the cable set has 2 connectors.	The vehicle is of before 05/2014. You require the VW-190-ZZ extension kit to connect the wiring harness.
I cannot find the trailer preparation connectors in the rear side of the vehicle.	The vehicle has either, an factory-fitted trailer module, or is not equipped with a trailer preparation Download the full manual from the website, https://catalogue.ecs-electronics.nl
Do I have to connect the black-blue wire? (only relevant to the VW146B1 or VW146D1 kit)	This can only be used if the vehicle is <u>not</u> equipped with a factory-fitted PDC system, and the expansion kit VW083ZZ is used. For vehicles with a factory-fitted PDC system will the function of the PDC cut-off be activated after coding the vehicle.
Do I need to connect the PDC option? (only relevant to the VW146B1 or VW146D1 kit)	This can only be used if the vehicle is <u>not</u> equipped with a factory-fitted PDC system, and the expansion kit VW083ZZ is used. For vehicles with a factory-fitted PDC system will the function of the PDC cut-off be activated after coding the vehicle
What option should I use for connecting the CANbus wires? Should I use option A or B??	You can choose either option, Option A: takes more fitting time, but allows you to return the vehicle to its original condition upon removal Option B: is faster to connect, but is a permanent connection that cannot be removed Download the full manual from the website, https://catalogue.ecs-electronics.nl
The CAN- and brake light wire-colors in the vehicle do not match to the colors in the manual.	1) Download the full manual from the website, https://catalogue.ecs-electronics.nl/ 2) Make sure that the numbers in the BCM connector pin position match the instructions in the manual. 3) Make sure the correct connectors are used at the BCM.
I do not need a power supply or 12V on the trailer socket, do I need to connect the power supply?	Yes, the towbar wiring kit needs a permanent 12V power supply to function.



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Questions regarding to connecting the towbar wiring kit

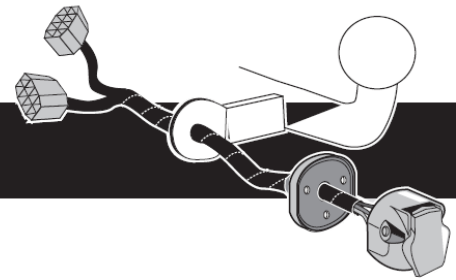
Question	Answer
I connected the harness in the back, what should I do with the other cable B?	<i>If you have connected the set at the back, you do not need cable part B and the fuse holders F2 anymore, they do not need to be connected.</i>
I have connected the harness at the back, do I still have to go to the frontside of the vehicle to connect anything?	<i>No, you do not have to connect anything at the front of the vehicle anymore, but for some models you still need to put a fuse(s) at the fuse-box.</i>



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Questions relating to coding of the vehicle

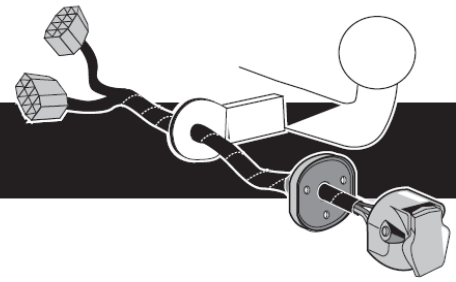
Question	Answer
<p>What is coding?</p>	<p><i>A new printer must be installed on a computer for the computer to function optimally.</i></p> <p><i>As with the printer, a CAN-bus tow bar wiring kit must be 'installed' on the vehicle, for the vehicle to function with it.</i></p> <p><i>This installation is called 'coding', and this is the setting of the computers in the vehicle, so that they can function optimally together with a CAN-bus towbar wiring kit</i></p>
<p>The official dealer asks me for a SWAP/SVM code for coding the vehicle.</p>	<p><i>These SWAP and SVM codes are required for some vehicles to code the vehicle online through the official VAG equipment and registration via the OEM data services of the VAG Group.</i></p> <p><i>This SWAP or SVM code is not applicable when using this kit because the vehicle's computers must be coded manually and locally.</i></p>
<p>What is a SWAP or SVM code?</p>	<p><i>These SWAP and SVM codes are only required when using the official VAG equipment and registration via the OEM data services of the VAG Group.</i></p> <p><i>This SWAP or SVM code is not applicable when using this kit because the vehicle's computers must be coded manually and locally.</i></p>
<p>How can I code the vehicle with VCDS/VAG Com? The explanation in the manual is only about ODIS.</p>	<p><i>The information in the manual indicates which computer of the vehicle may need to be encrypted, this is independent of the brand of testing equipment used.</i></p> <p><i>Please consult the supplier of your workshop diagnostic equipment if you have any questions about operating or the working of the device itself.</i></p>
<p>What is online coding?</p>	<p><i>This is coding the vehicle via the official VAG equipment with registration via the VAG Group's OE data services.</i></p>
<p>What is local coding?</p>	<p><i>This is changing the settings directly in each of the computers of the vehicle with the workshop diagnoses equipment.</i></p>
<p>Can or should I code the vehicle online?</p>	<p><i>No, all computers in the vehicle must be coded locally/ manually. It is possible via Remote Coding Services, which also do this locally in the computers of the vehicle.</i></p>
<p>Is it necessary to re-code the trailer after a factory update of the vehicle?</p>	<p><i>Yes it might, this local coding does not take place through official registration with the VAG Group's OE data services, so it may be necessary to re-code the trailer after a factory update of the vehicle, resetting the vehicle to factory settings.</i></p>
<p>Can I code the vehicle using a remote service such as ECS Remote Coding or AutoNiveau</p>	<p><i>Yes, Remote Coding Services can also code the vehicle.</i></p>



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Questions relating to coding of the vehicle

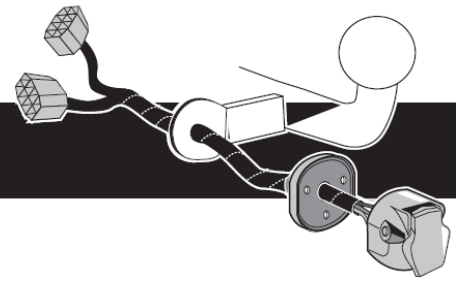
Question	Answer
<p>What equipment can I use for coding the vehicle?</p>	<p><i>Coding can be carried out with most workshop diagnosis testers (such as VCDS, VAG com, Hella Gutmann, etc.) and via Remote Coding Services such as ECS Remote Coding or AutoNiveau. Contact the supplier of your workshop equipment if this is possible.</i></p>
<p>All light functions work, do I still need to code the vehicle?</p>	<p><i>Yes, although all light functions work on the trailer, the vehicle still requires to be coded.</i></p>
<p>Do I need to have the vehicle coded at an official dealer?</p>	<p><i>No, this is not necessary. It is necessary that the vehicle is coded, but this does not necessarily have to be done by an official dealer.</i></p> <p><i>Coding can be carried out with most workshop diagnosis testers (such as VCDS, VAG com, Hella Gutmann, etc..) and via Remote Coding Services such as ECS Remote Coding or ECS Remote Coding or AutoNiveau. Contact the supplier of your workshop diagnosis tester if this is possible with your equipment.</i></p>
<p>I do not get the vehicle (properly) coded? / I have problems with coding the vehicle.</p>	<ol style="list-style-type: none"> 1) <i>Check that the lighting on the trailer works, if it does not work it is possible that the vehicle cannot be encoded</i> 2) <i>Consult your workshop supplier diagnosis tester if your equipment has these capabilities.</i> 3) <i>Recode the vehicle back to the factory settings, and try again to code the vehicle from the beginning.</i>
<p>I cannot get a connection/communication with the trailer module through my workshop diagnosis tester?</p>	<p><i>The ECS module is not equipped with functions to read error messages. Your workshop diagnosis tester will indicate that there is no connection or communication possible.</i></p> <p><i>However, this does not mean that the module is defective or does not communicate with the vehicle. The lighting of the trailer will work normally and, after coding, support the possible vehicle functions.</i></p>



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Questions regarding the light functions on the trailer

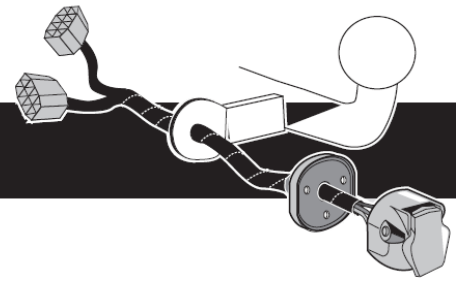
Question	Answer
<p>Nothing works on the trailer.</p>	<ol style="list-style-type: none"> 1) Test the connection with a bicycle carrier or tester with normal lamps and load, do not use a tester with LED lamps or resistors and do not test with a voltmeter or test-probe. 2) Check with an AUDI A3, Q2 and Q3, check that the 2 connectors are correctly connected at the A style (see manual). 3) Check the power supply and ground on the module (red-blue wire against white wire), this must be at least 11V with contact switched off. 4) Check the connections in the trailer socket.
<p>Only the brake light works on the trailer.</p>	<p>Check the connection of the CAN-bus wires:</p> <ol style="list-style-type: none"> 1) Check if the wires are connected to the correct connector or place in vehicle. 2) Check if the colors of the CAN-bus wires are not switched. 3) Check if the wires make a good connection. 4) Check with an AUDI A3, Q2 and Q3, if the 2 connectors are correctly connected at the A style (see manual).
<p>Some lights do work, and some do not on the trailer.</p>	<ol style="list-style-type: none"> 1) Test the connection with a bicycle carrier or tester with normal lamps and load, do not use a tester with LED lamps or resistors and do not test with a voltmeter or test-probe. 2) Check the connections in the trailer socket.
<p>The brake light is constantly on, on the trailer.</p>	<ol style="list-style-type: none"> 1) Test the connection with a bicycle carrier or tester with normal lamps and load, do not use a tester with LED lamps or resistors and do not test with a voltmeter or test-probe. 2) Check that the vehicle's brake lights are working, and If these do not work, then first repair it and test trailer again. 3) Check the connection of the brake signal (black-red wire) to the vehicle. 4) Check the voltage on the brake light signal at the trailer-module (black-red wire), this must be at least 11V when the brake pedal is operated, and 0V when it is not operated.
<p>I do not have a switched power supply or +15 on the 13-pin socket.</p>	<p>Order the extension kit SP135ZZ to connect a +15 to the trailer socket.</p>



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Questions regarding the light functions on the trailer

Question	Answer
<p>I do not have a constant power supply or +30 (12V) on the 13-pole socket.</p>	<p><i>Make sure the fuses are working well and inserted in the right place.</i></p>
<p>The fog lights on the trailer do not work or I see only a flash when turned on.</p>	<p><i>The towbar wiring kit can only operate 1x 21W fog lamp on the trailer. With a higher load, it will switch off the signal.</i></p> <ol style="list-style-type: none"> 1) <i>Test with a bike carrier or tester with one fog lamp with a normal lamp and load (maximum 1x21W), do not use a tester with LED lamps or resistors and do not test with a voltmeter or test-probe.</i> 2) <i>Make sure that the fog lamp on the tester is working and is switched off on the vehicle.</i> 3) <i>Check the connections on the trailer socket</i>
<p>The reversing lights on the trailer do not work and I see only a flash with turned on.</p>	<p><i>The towbar wiring kit can only operate x1 21W reversing lamp on the trailer. With a higher load, it will switch off the signal.</i></p> <ol style="list-style-type: none"> 1) <i>Test with a bicycle carrier or tester with a single reversing lamp with a normal lamp and load (up to 1x21W), do not use a tester with LED lamps or resistors and do not test with a voltmeter or test-probe.</i> 2) <i>Make sure the reversing lamp is working on the tester.</i> 3) <i>Check the connections on the trailer socket</i>



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Questions related to vehicle functions

Question	Answer
<p>The PDC sensors still beep on the vehicle when a trailer is connected.</p>	<ol style="list-style-type: none"> 1) Always connect the trailer when the ignition switch is turned off. 2) Code the vehicle for automatic PDC cut-off when using a trailer 3) Use a trailer with the correct load
<p>The fog lamp on the vehicle does not turn off after a trailer is connected</p>	<ol style="list-style-type: none"> 1) Always connect the trailer when the ignition switch is turned off. 2) Test with a bike carrier or tester with a fog lamp with a normal lamp and load (up to 1x21W), do not use a tester with LED lamps or resistors and do not test with a voltmeter or test-probe. Make sure that the fog lamp on the tester is working and is switched off on the vehicle. 3) Code the vehicle according to the instructions of the manual
<p>Sometimes the fog lamp on the vehicle also flashes and does not switch off completely</p>	<p>The vehicle is probably already equipped with an OEM trailer module or -cable set. If this is the case, you may need another set. See also the ECS website, https://catalogue.ecs-electronics.nl/</p>
<p>I get ACC, lane assist, and/or other messages in the dashboard after installing the cable set.</p>	<ol style="list-style-type: none"> 1) Test with a bicycle carrier or tester with normal lamps and load, do not use a tester with LED lamps or resistors and do not test with a voltmeter or test-probe and check that the faults are still present. 2) Make sure the lighting of the vehicle itself is working properly. If these do not work properly, then first restore it and re-test the trailer functions and check if the notifications are gone. 3) Code the vehicle back to the factory settings and remove the trailer module. If the notifications persist, this is caused by something in the vehicle itself. Repair the vehicle before reconnecting the towbar wiring kit and re-code the vehicle. 4) Code the vehicle back to the factory settings, and recode the vehicle for a using a trailer wiring kit again, and check if the notifications are gone.