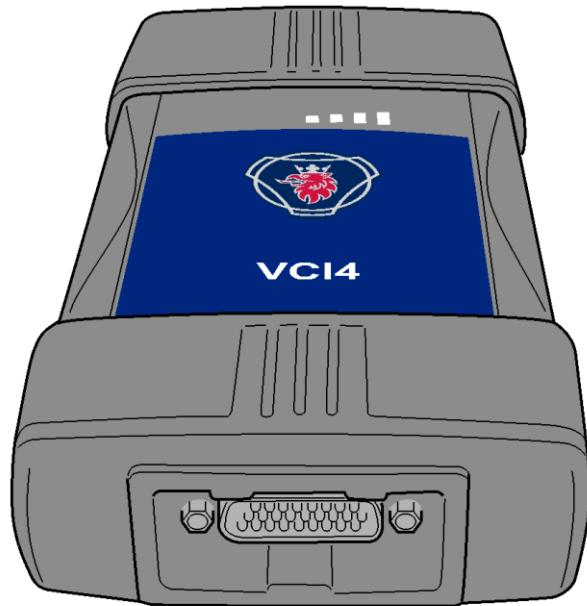




Vehicle Communication Interface

VCI4

User instructions



466 099



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About the user manual

The manual contains information about VCI4 for safe operation and is primarily aimed at users of VCI4.

A prerequisite for communication between a computer and VCI4 is that there is already a functioning wireless network in the IT environment. Settings for the IT environment are not described here, apart from a few specific details. How the network should be set up is described in the following documents:

- [SWS:03 Workshop Communicator Unit \(WCU\) – network configuration and installation wizard](#)
- [SWS:05 WCU installation in the workshop](#)

The documents can be downloaded from TIL (Technical Information Library). The documents are primarily intended for network and workshop administrators.

Read this first

Read the entire user manual before you start using VCI4 to ensure that you use the unit safely and correctly. Always comply with the recommendations and instructions given. The user manual contains information that will prevent risks that could cause personal injury or equipment damage.

- In addition to the user manual, the system operator should provide instructions according to national regulations (data protection).
- The unit in the user manual illustrations may differ from your unit as a result of development of the unit and its software.

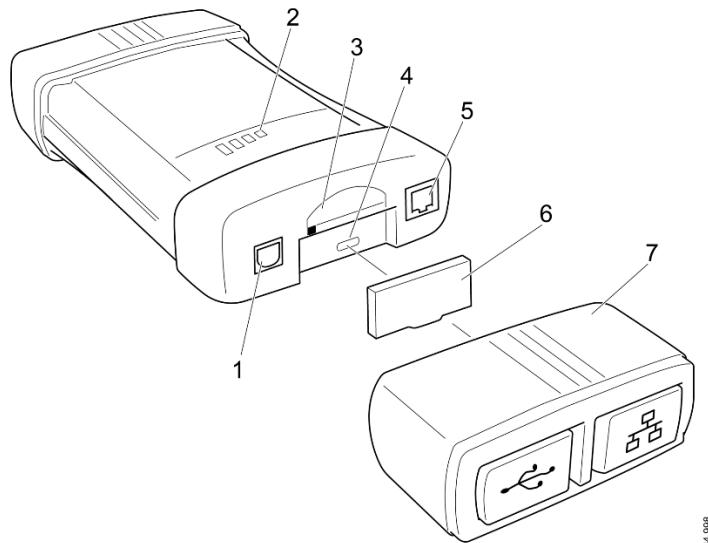


Glossary

The manual contains a number of abbreviations that are described in the table.

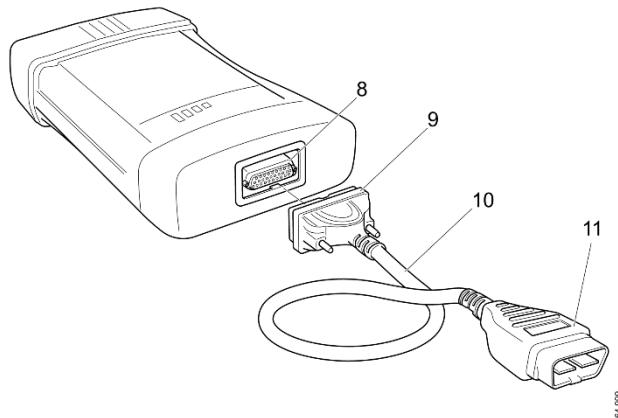
Word	Meaning
ECU	Electronic control unit
LED	Light-emitting diode
OBD	On board diagnostics
WCU	Local communication unit for SWS
Wi-Fi	Wireless data transmission
WLAN	Wireless local area network

VCI4



1. USB port
2. Symbol lights
3. Factory reset
4. Supplier port, **not in use**
5. Ethernet connection
6. Plastic cover
7. Rubber protector

8. OBD cable input
9. Connector for VCI side
10. OBD cable
11. Connector for OBD input on vehicle





The Vehicle Communication Interface (VCI) is the interface used between the vehicle and a tablet or a laptop.

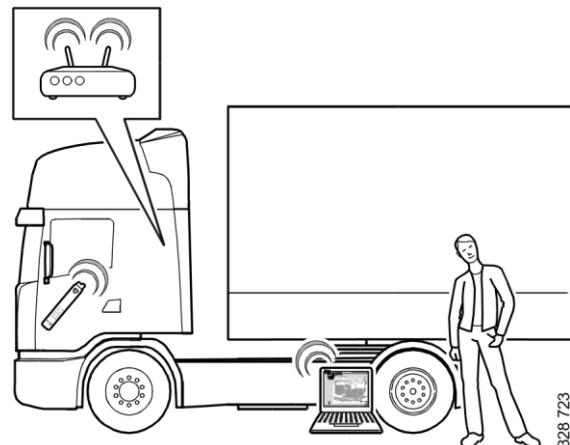
VCI4 is connected to the vehicle using the OBD cable. The VCI unit connects to WCU and SWS via the wireless network.

VCI4 allows you to communicate with the vehicle control units via the wireless network in the workshop. This makes it easier to move freely around the vehicle without having to worry about the VCI unit USB cable.

VCI4 can communicate with the new cybersecure vehicles/powertrains.

VCI4 can also be used without cybersecure electrical systems for the following vehicle series:

- Buses: C and K series
- Trucks: L, P, G, R and S series



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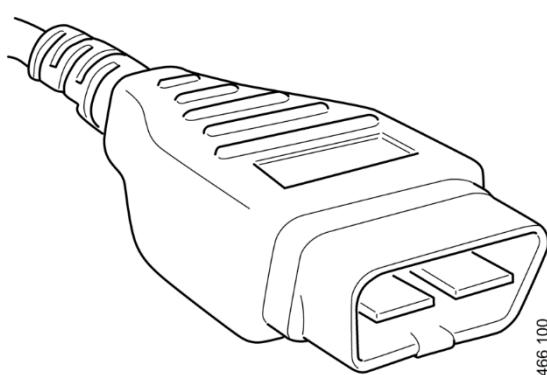
Connection options

VCI4 connects wirelessly via a hotspot in the workshop's local network. A hotspot may be e.g. a router, mobile phone or USB dongle.

Electric power supply with OBD cable

VCI4 gets its power via the OBD cable to the vehicle. VCI4 has no internal power storage (no batteries, etc.) The unit is supplied with power from the vehicle battery via the connector on the rear of the VCI4.

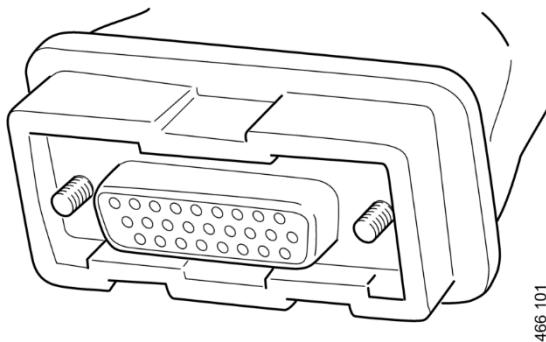
The OBD cable is a standard cable for vehicles.



466 100

The OBD cable connector for the vehicle OBD output. The metal rail secures the connector in the OBD output.

The OBD cable connector is a truck version that can also be used in cars.



The OBD cable connector for the VCI side.

The OBD cable plug for the VCI side has a guide rail for correct insertion.

Safety

The operator and operating personnel are responsible for the intended and legal use of VCI4.

- Modifications, conversions or other actions on the VCI4 are not permitted.
- VCI4 is only intended for maintenance of vehicles. It is used for vehicle diagnostics in workshops, production, plants and warehouses.
- Repairs may only be carried out by authorised personnel. Only use the correct and approved materials.
- The general safety regulations for work on electrical power must be complied with.

Special safety instructions



CAUTION!

Risk of electric shock

- Do not perform repair or modifications to electrical systems, components or cables.
- Repairs may only be carried out by qualified personnel.
- In case of electric shock, contact a physician immediately and seek medical care for observation.



CAUTION!

- Incorrectly performed maintenance work can reduce the safety of the unit and cause serious personal injury.
- Only authorised and trained personnel can perform maintenance work.



CAUTION!

Risk of burns.

During operation, component surfaces may become hot. Contact with them may result in burns.



Before all work:

- Check temperatures.
- Do not touch hot surfaces.
- Allow components to cool down.



CAUTION!

There is a risk of mild personal injury from careless handling of the cables used with VCI4.

- Do not pull on electrical cables.
- Check that cables do not lie across the floor.



IMPORTANT!

Strong detergents can damage surfaces or components.

- Always only use a moist cleaning cloth to clean the unit.
- Do not clean the inside of the unit.



IMPORTANT!

- Protect components from moisture, water, acid, solvents and dust.



Disposal

Follow local recycling rules and applicable regulations.

Cleaning

Do not clean Scania VCI4 with acidic or solvent-based cleaning detergents. Use a microfibre cloth for cleaning. For heavier contamination, use a mild soap and water on a microfibre cloth.

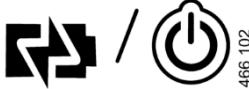
Lights and symbols on VCI4

VCI4 has a number of LED lights indicating status, just like its predecessor, VCI3. A new feature is that each light also has a symbol.

All lights flash briefly when the VCI unit starts up. A short audible signal indicates that VCI4 is ready for use.

The following table is a description of the lights and their symbols on the VCI4 unit.



Symbol	Status	Colour	Description
 466 102	Current	Green	The light is constantly lit when VCI4 is supplied with power
 466 103	Error	Red	<ul style="list-style-type: none"> The light is constantly lit when there is a communication error in VCI4, for example in the software or hardware. The light flashes if a serious fault occurs, e.g. in the event of a critically high temperature
 466 104	WCU	Green	The light is lit when the VCI4 is connected to the WCU.
 466 105	ECU	Green	The light is lit when VCI4 is connected to the vehicle.
 466 106	Wi-Fi	RGB	<p>The light shows the status of the connection to the local network. See the explanation of the colours of the light in the table below.</p> <p>The bars show the signal strength for the wireless connection. See the explanation of the colours of the light in the table below.</p>
 466 107	Signal strength	Orange	

The status of the wireless local area network

	Wi-Fi light	Signal strength light
The hotspot is waiting for connection to the VCI4	Flashing blue	Off
The VCI4 is connected	Steady blue	All bars are lit
The VCI4 is disconnected	Flashing blue	Off
Cannot find hotspot	Flashing green	Off
Hotspot connected	Steady green	Steady orange
Hotspot disconnected	Flashing green	Off
Network error	Flashing red	Off
Network off	Off	Off



Troubleshooting the VCI4

Follow the list below to address the faults on the VCI unit.

1. Check that the VCI unit is turned on.
2. Check in the vehicle instrument cluster that the battery voltage is correct.
3. Check that the OBD cable is not damaged and that no pins are bent.
4. Check that the power light is green on the VCI4.
5. Try the following:
 - Try with a different OBD cable.
 - Try with a different USB cable and USB port on the PC.
 - Try with a different working VCI unit.
 - Try with a different working PC.
 - Try to reconnect the WLAN.

If none of the above corrects the fault, contact your workshop administrator.