


KÄRCHER
KAERCHER 0.084-121.0
Connect Module



KAERCHER 0.084-121.0 Connect Module Instruction Manual

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KAERCHER 0.084-121.0 Connect Module



Product Specifications

- Model: Connect Module
- Version: 0.084-121.0 (03/24)

Product Information

The Connect Module is designed to enhance machine integration and provide safety instructions for proper usage. It contains license-exempt transmitters/receivers that comply with regulatory standards.

Usage Instructions

General Safety Instructions

Ensure to keep the packaging film away from children to avoid the risk of asphyxiation. Only use the device for its intended purpose and ensure proper supervision to prevent misuse by children.

Machine Integration and Installation Spaces

Attach the antenna to the machine ensuring a distance of 20 cm from the machine operator for optimal performance.

Safety Instructions

Follow the hazard level indications carefully to prevent severe injuries or damage to property. Improper installation or connection can lead to malfunctions, so always consult a qualified specialist for installation. Take precautions against electrostatic discharge (ESD) to protect electronic components from damage.

FCC Rules

Compliance with FCC Rules is essential for the proper operation of the device. Ensure that the device does not cause interference and is protected from undesired operation due to external interference.

FAQ

- **Q: Can children operate the device?**
 - A: No, children must not operate the device and should be supervised to prevent any misuse.
- **Q: What are the risks associated with improper installation?**
 - A: Improper installation can lead to damage to the attachment, vehicle, or machine, causing malfunctions

and failures. Always seek assistance from a qualified specialist for installation.

Read Online



Register your product

www.kaercher.com/welcome

Kärcher Equipment Management – Plug-in Connect Module

General notes

Read and adhere to these installation instructions before conversion.
Keep these installation instructions for future reference or for future owners.

General safety instructions

DANGER

Risk of asphyxiation. Keep packaging film out of the reach of children.

WARNING

- Only use the device for its proper use. Take into account the local conditions and beware of third parties, in particular children, when working with the device.
- The device is not intended for use by persons with restricted physical, sensory or mental abilities or those lacking in experience and / or lacking in knowledge.
- Only people who have been instructed on how to use the device, or have proven their ability to operate it, and have been explicitly instructed to use it, must use the device.
- Children must not operate the device.
- Children must be supervised to prevent them from playing with the appliance.

CAUTION

Safety devices are provided for your own protection. Never modify or by-pass safety devices.

General information on machine integration and installation spaces

Note

The antenna must be attached to the machine in such a way that the machine operator is 20 cm away from the antenna.

Safety instructions

Hazard levels

- **DANGER**

Indication of an imminent threat of danger that will lead to severe injuries or even death.

- **WARNING**

Indication of a potentially dangerous situation that may lead to severe injuries or even death.

- **CAUTION**

Indication of a potentially dangerous situation that may lead to minor injuries.

- **ATTENTION**

Indication of a potentially dangerous situation that may lead to damage to property.

Safety instructions

ATTENTION

Risk of damage due to improper installation.

Improper installation or connecting up of the attachment can damage the attachment as well as the vehicle or the machine. Malfunctions and failures can occur on the attachment and the vehicle or machine.

Have the assembly, installation and connecting up of the attachment carried out only by a qualified specialist.

ATTENTION

Risk of damage due to electrostatic discharge (ESD)!

Electrostatic discharge (ESD) can damage electronic components. Take suitable measures to discharge the electrostatic charge before all work on the device electronics.

ATTENTION

- Risk of damage due to sharp-edged objects and soiling!
- Sharp-edged or dirty objects can cause damage such as scratches, notches and deformation when coming into contact with device components. Dirty tools, cloths and work surfaces can cause irreversible soiling and discoloration.
- Use only suitable, undamaged and clean tools and auxiliary materials and exercise care when working. Place components and devices only on clean, padded surfaces.
- For safety and warranty reasons, we recommend that you have Kärcher Service perform the assembly, installation and connection.
- Keep these installation instructions for future reference or for future owners.

Note

Also adhere to the operating instructions for the vehicle or device in which the attachment is installed.

FCC Rules

Note

Canada

This device contains licence-exempt transmitters/receivers that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions

1. This device may not cause interference
2. This device must accept any interference, including interference that may cause undesired operation of the device.

USA

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance voids the user's authority to operate this equipment.

Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Intended use

The Equipment Management – Plug-in Connect Module, is used to transmit important status and usage data of a device. These installation instructions describe the installation and the connection.

These installation instructions apply to the attachment kit: 2.644-391.0

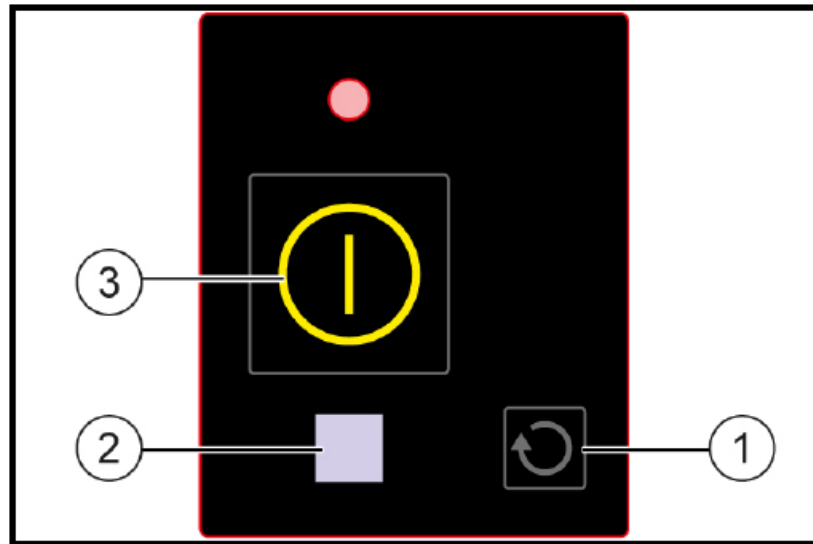
Scope of delivery

Description	Quantity	Part number
Plug-in Connect Module	1	2.644-
		391.0

Description	Quantity	Part number
Mobile radio antenna	1	6.684- 583.0
Cable ties	2	6.641- 458.0
Mounting element, self- adhesive	2	6.648- 813.0
Cleaning set	1	6.039- 043.0
Ring cable lug D4-1	2	6.641- 242.0
Ring cable lug D5-1	2	6.641- 086.0
Ring cable lug D8-1	2	6.642- 602.0
Ring cable lug D10-1	2	6.642- 603.0
RJ 45 adapter for BR 45/22	1	6.642- 604.0

Description of the unit

Control elements



1. Reset button
2. LED display
 - **LED off:** neutral
 - **LED on:** blue
3. On/Off button

Installation

Preparation for installation

- Place the device on a level surface.
- Switch off the device.
- Turn the program selection switch to position "0".
- If present: Pull out the KÄRCHER Intelligent Key (KIK) on the control panel.
- Disconnect the battery.
- Determine a suitable position for the Plug-In Connect Module and the antenna in the device (see Determine the position for the Plug-in Connect Module and the antenna).

CAUTION

Material damage through incorrect installation
 Allow only qualified staff to perform the installation.

Note

After installation, keep the installation instructions and the circuit diagram together with the operating instructions.

Determine the position for the Plug-in Connect Module and the antenna

- The following requirement should be met by the position for attachment
- The Plug-in Connect Module must be fitted in such a way as to ensure the best possible transmission of the device's vibrations.

Note

Move the Plug-in Connect Module near the main unit (e.g. turbine, motors) of the device (for an example of the

attachment, see Machine integration and installation position).

- The antenna must be glued to the outer wall inside the device.
- The shielding by components such as metal and electronic components as well as e.g. the fresh water tank should be as low as possible.
- The adhesive surface should be as flat as possible.
- The Plug-in Connect Module should only be in contact with the machine at the adhesive surface when the device is ready for operation. The remaining outer surfaces of the module should be exposed.

Installation

ATTENTION

- Material damage due to improper attachment!
- If the module is not attached properly, it may detach from the attached surface and fall onto other elements inside the device.
- Attach the Plug-in Connect Module in such a way that it does not come into contact with moving or safety-relevant components of the device in the event of detachment.

ATTENTION

- Risk of damage to the cable!
- The cable between the antenna and the Plug-in Connect Module can be damaged by crushing or kinking.
- Do not place heavy objects on the cable and do not pinch it.
- Do not pull, bend, alter or wrap the cable.

Note

- The adhesive surfaces must be cleaned with the enclosed cleaning kit before gluing the antenna and Plug-in Connect Module together.
- Cleaning the bonding surfaces immediately before bonding is essential for the success of a good and permanently strong bond.
- For proper cleaning and installation, use the instructions, part no. 0.093-405.0.

Further information about the following products can be found on the product detail page of the manufacturer 3M

- 3M™ VHB™ Surface Cleaner
- 3M™ VHB™ Tape 5952F

1. Clean the adhesive surface with the enclosed cleaning kit.
2. Remove the protective film from the adhesive surface.
3. Attach the Plug-in Connect Module at a suitable place (see Determine the position for the Plug-in Connect Module and the antenna).
4. Glue the antenna.

5. Shorten the power supply cable to the device-specific length.
6. Attach the device-specific connector (e.g. ring cable lug) to the open end of the cable.
7. Contact the internal power supply in the device (supply voltage 12-60 V) with connectors.
8. Activate the Plug-in Connect Module with the On/Off button on the HMI.

Note

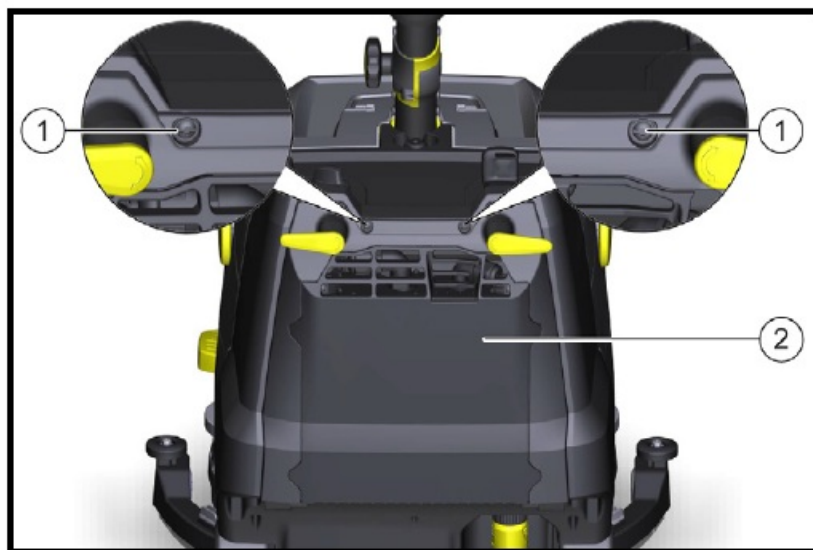
Press the On/Off button on the HMI (approx. 10 seconds) until the blue LED lights up continuously.

9. Start the Plug-in Connect Module via the following link: <https://support.em.kaercher.com/login>

Machine integration and installation position

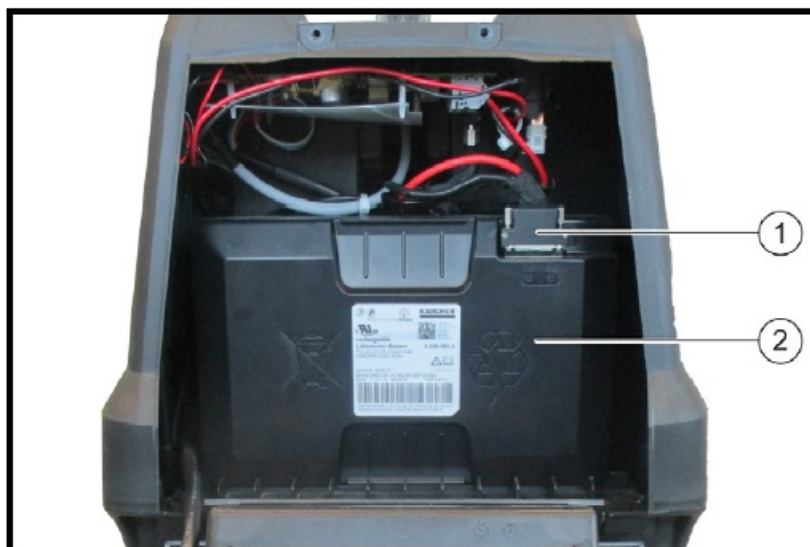
Machine integration and installation spaces : BD 38/12 and BR 35/12

1. Turn the trigger to "0".
2. Unscrew the M 5×20 screw (2x).



1 Screw M 5×20

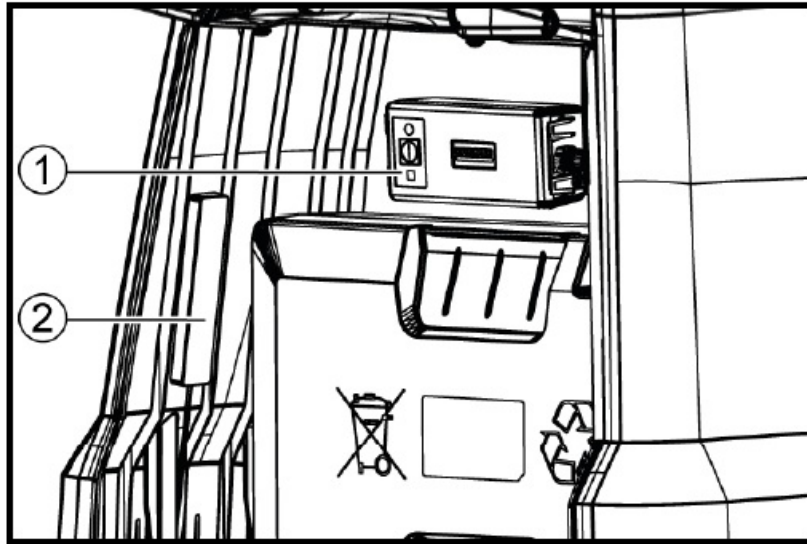
3. Open the cover.
4. Release and disconnect the battery plug connector.



1 Battery plug connector

2 Battery

5. Attach the Plug-in Connect Module and the antenna as shown.



1 Plug-in Connect Module

2 Antenna

ATTENTION

Risk of damage to the cable!

The cable between the antenna and the Plug-in Connect Module can be damaged by crushing or kinking.

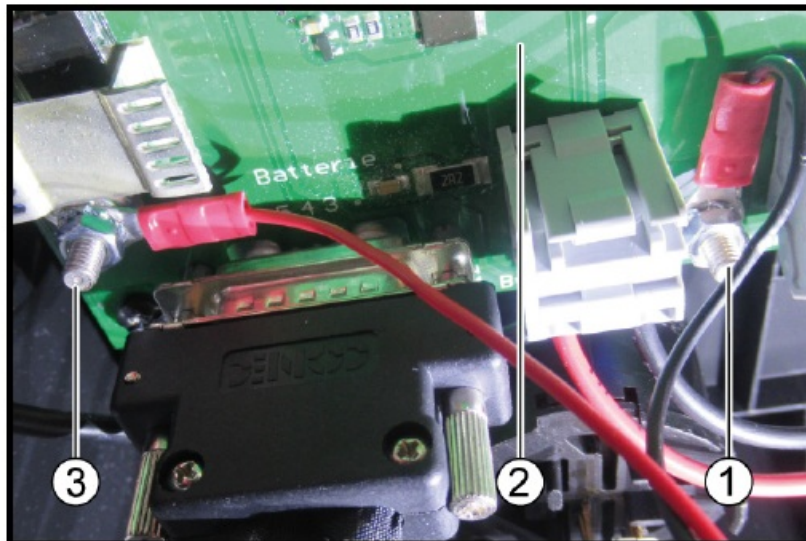
Do not place heavy objects on the cable and do not pinch it.

Do not pull, bend, alter or wrap the cable.

6. Strip the cable (approx. 100 mm).

7. Place the ring cable lug D4-1 on the wire of the cable and then crimp it with a crimping tool (2x).

8. Remove the plastic cover from the control board.



1 GND:X13 (negative pole or earth point)

2 Control board

3 X9 (positive pole)

9. Attach the ring cable lugs with the flattened side:

- Red wire (positive pole): Slot X9
- Black wire (negative pole or ground point): Slot GND:X13

10. Reinsert the battery into the device and connect it accordingly.

11. Secure the cable to the wiring harness with the cable ties and route it accordingly.

12. Press and hold the On/Off button on the Plug-in Connect Module for approx. 10 seconds.

Note

The LED must then light up continuously.

13. Close the cover again.

14. Screw in the M 5×20 screw (2x).

Machine integration and installation spaces: BR 45/22

1. Turn the trigger to “0”.

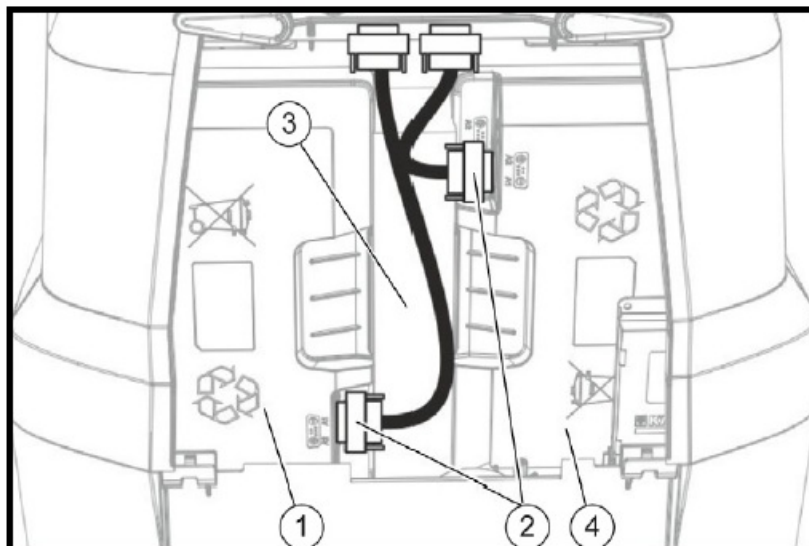
2. Unscrew the M 5×20 screw (2x).



1 Screw M 5×20

3. Open the cover.

4. Release and disconnect the battery plug connector (4x).



1 Battery, left

2 Battery plug connector

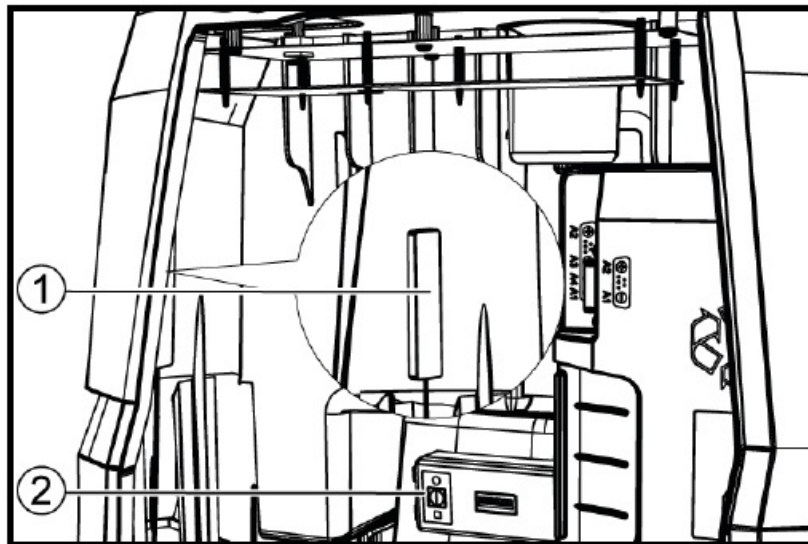
3 Battery spacer

4 Battery, right

5. Remove the battery spacer.

6. Remove the left battery (view direction: in the direction of travel).

7. Bond the Plug-in Connect Module and the antenna as shown.

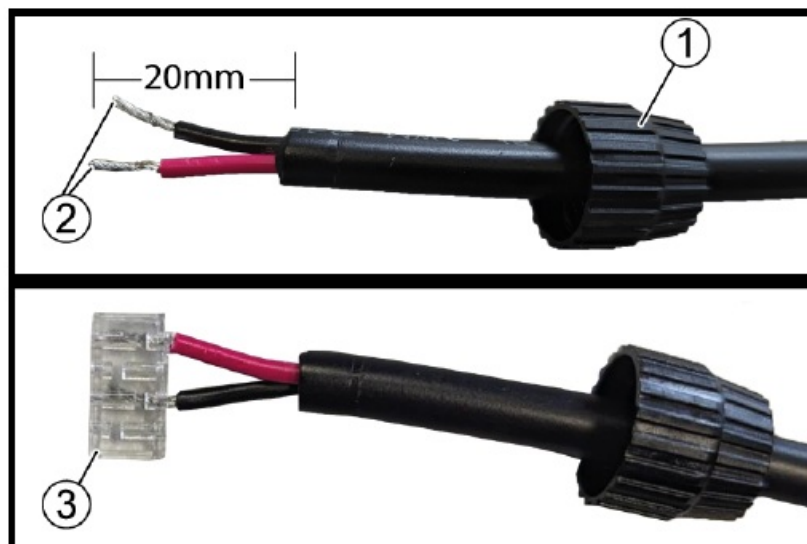


1 Antenna

2 Plug-in Connect Module

Note

The antenna must be attached on the inside, to the left of the RJ 45 adapter.



1 Screw cap

2 Cable

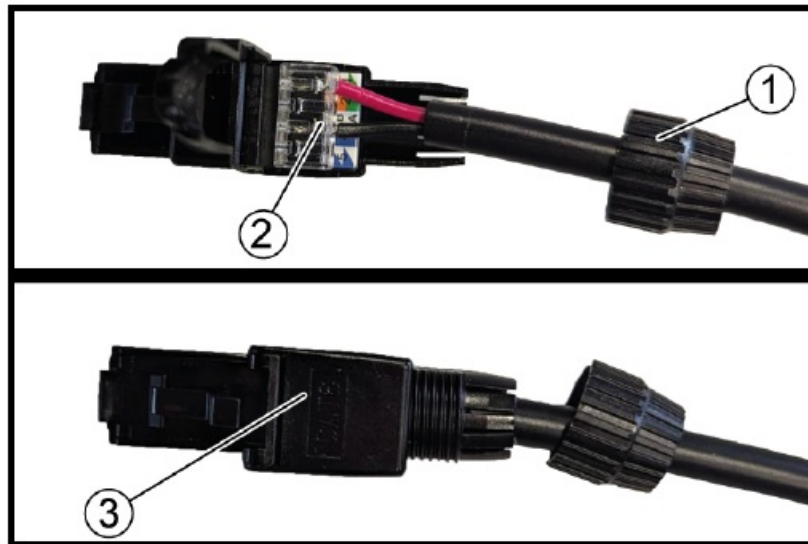
3 Wiring cap

8. Strip the cable (20 mm).

9. Put the screw cap on the cable.

10. Insert into the wiring cap.

- **Pin 1:** (WhiteOrange/Whitegreen) positive pole (red cable).
- **Pin 2:** (blue) negative pole (black cable).



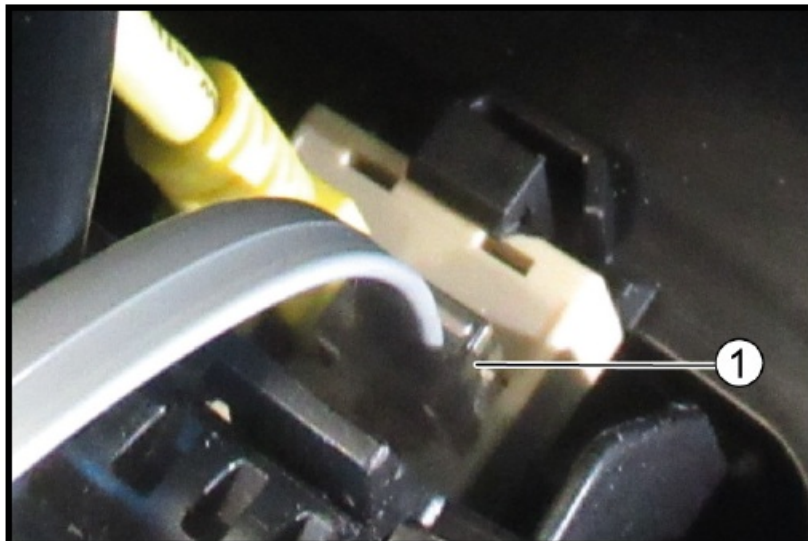
1 Screw cap

2 Wiring cap

3 RJ45 plug

11. Press the wiring cap onto the plug.

12. Close the plug and screw it with the screw cap



① RJ45 plug

ATTENTION

Risk of damage to the cable!

The cable between the antenna and the Plug-in Connect Module can be damaged by crushing or kinking.

Do not place heavy objects on the cable and do not pinch it.

Do not pull, bend, alter or wrap the cable.

13. Place the ring cable lug D4-1 on the wire of the cable and then crimp it with a crimping tool (2x).

14. Remove the plastic cover from the control board.

15. Attach the ring cable lugs with the flattened side:

- Red wire (positive pole): Slot X3
- Black wire (negative pole or ground point): Slot X4

16. Insert the battery plug connector of the battery on the right and tighten it (2x).

Note

The Plug-in Connect Module must be checked for full functionality before inserting the left battery.

17. Press and hold the On/Off button on the Plug-in Connect Module for approx. 10 seconds.

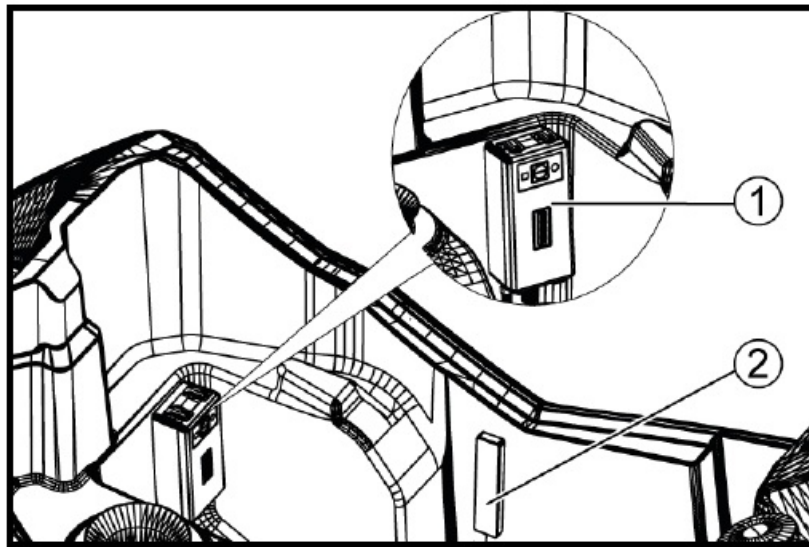
Note

The LED must then light up continuously.

18. Reattach the cover.
19. Fit the left battery.
20. Insert the battery spacer between the batteries.
21. Insert the battery plug connector of the battery on the left and tighten it (2x).
22. Close the cover.
23. Screw in the M 5×20 screw (2x).

Machine integration and installation spaces: BD 50/50

1. Turn the programme selection switch to “OFF”.
2. Remove the waste water tank.
3. Bond the antenna on the right inside (in driving direction) of the fresh water tank behind the battery.
4. Bond the Plug-in Connect Module on the front inside (in travel direction) of the fresh water tank.



1 Plug-in Connect Module

2 Antenna

Note

The Plug-in Connect Module must not be placed higher than the lower edge of the waste water tank (see diagram above).

ATTENTION

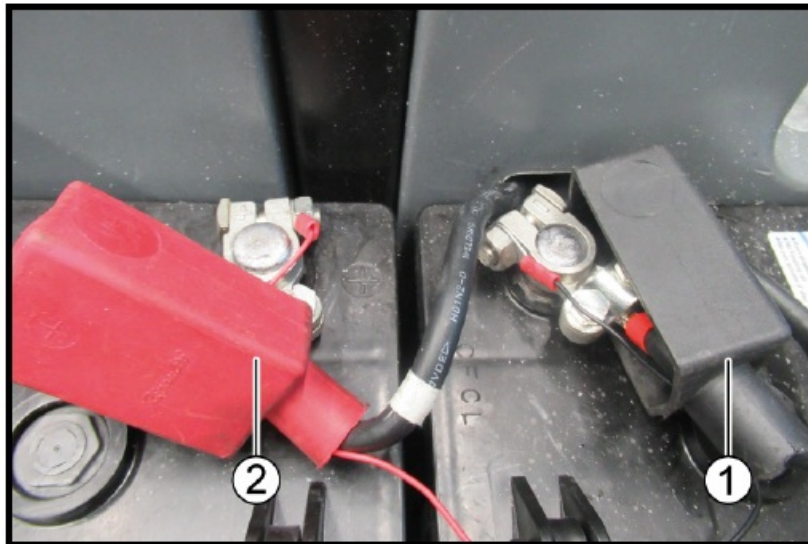
Risk of damage to the cable!

The cable between the antenna and the Plug-in Connect Module can be damaged by crushing or kinking.

Do not place heavy objects on the cable and do not pinch it.

Do not pull, bend, alter or wrap the cable.

5. Remove the pole cap (2x).



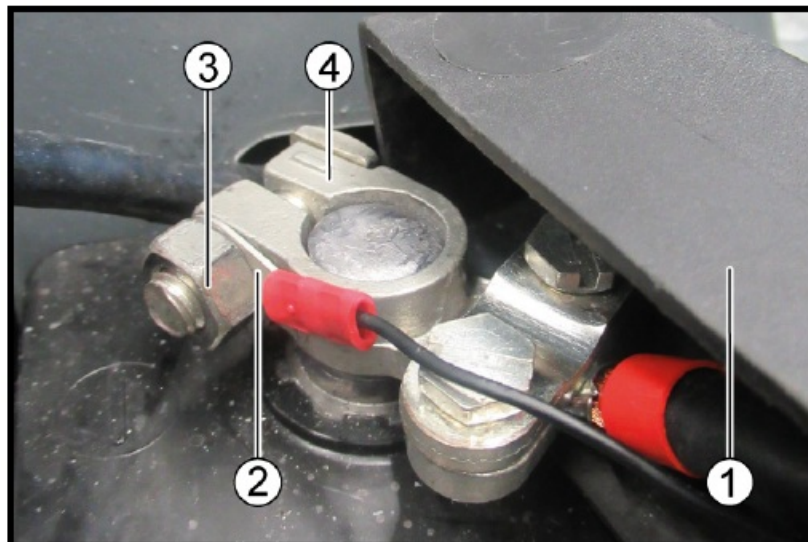
1 Pole cap (negative pole or earth point)

2 Pole cap (positive pole)

6. Release the nut on the battery terminal (2x).

7. Strip the cable (approx. 150 mm).

8. Place the ring cable lug D8-1 on the wire of the cable and then crimp it with a crimping tool (2x).



1 Pole cap

2 Ring cable lug

3 Nut

4 Battery terminal

9. Pull the ring cable lug through the opening in the pole cap (2x).

10. Attach the ring cable lug with the flattened side (pointing towards the battery terminal) and secure it with the nut (2x).

Note

The red cable must be connected to the positive pole and the black cable to the negative pole or earth point.

11. Press and hold the On/Off button on the Plug-in Connect Module for approx. 10 seconds.

Note

The LED must then light up continuously.

12. Fit the pole cap (2x).

13. Fit the waster water tank.

Initial startup

The initial startup takes place via the “EQUIPMENT MANAGEMENT ADMIN VIEW” portal

Link to portal: <https://support.em.kaercher.com/>

QR code to portal:



Troubleshooting guide

In case of questions or malfunctions, please contact the following e-mail address: info.em@karcher.com

Malfunctions with information shown on the display

Error	Rectification
PCM is not active	<ol style="list-style-type: none">1. Charge the machine (approx. 2 hours).2. Check whether the mobile phone network is available.3. Press the reset button.

Blink code

Note




1000 milliseconds = 1 second

- Long=L(1000 ms)
- Short=S(200 ms)
- Pause=P(500 ms)
- Delimiter=L(3000 ms)




Blink code	Error message
LpLpSd	Error during initialization.
LpSpSd	Error in the IPP connection.
SpSpSd	Error during SSID scan.
LpLpLd	Error in the Acc sensor measurement.
SpSPLd	Error when recognising the machine status.
Technical data	

Dimensions and weights		
Weight	lbs (kg)	1.7(0,23)
Length x width x height	in	5.3x2.2x1.54
Cable length	in	66.9
Antenna cable length	in	19.7
Network technology		Mobile network WLAN
Input voltage		
Input voltage range	V	12...60
Power input max.	A	1
Average standby power consumption	mA	<1
Reverse-polarity protection (up to)	V	75
Ambient conditions		
Permissible temperature range		23-104
Relative humidity	%	20...85
Degree of protection		IP45
Casing material		PP RoHS 2
Contains Li-ion Rechargeable Cell		
Type		ICR18650/20P (ICR19/66)
Nominal voltage	V	3,6
Capacity	mAh (Wh)	2000 (7.2)

Documents / Resources

  	<p>KAERCHER 0.084-121.0 Connect Module [pdf] Instruction Manual 0.084-121.0 Connect Module, 0.084-121.0, Connect Module, Module</p>
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References

-  [Asset Management Support Portal - myKärcher business](#)
-  [Asset Management Support Portal - myKärcher business](#)
-  [Asset Management Support Portal - myKärcher business](#)
- [User Manual](#)

Manuals+, [Privacy Policy](#)

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