

**KM 85/50 R Bp**  
**KM 85/50 R Bp Pack**  
**KM 85/50 R Bp Pack 2SB**



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59681430 (03/21)

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## General notes

  Read these original instructions and the safety instructions chapter before using the device for the first time. Act in accordance with them.  
Keep them safe for future reference or for future owners.

### Checking the delivery

Please report any defects or shipping damage identified on the vehicle when it is handed over directly to your dealer or department store.

### Environmental protection

 The packing materials can be recycled. Please dispose of packaging in accordance with the environmental regulations.

 Electrical and electronic appliances contain valuable, recyclable materials and often components such as batteries, rechargeable batteries or oil, which - if handled or disposed of incorrectly - can pose a potential threat to human health and the environment. However, these components are required for the correct operation of the appliance. Appliances marked by this symbol are not allowed to be disposed of together with the household rubbish.

### Notes on the content materials (REACH)

Current information on content materials can be found at: [www.kaercher.com/REACH](http://www.kaercher.com/REACH)

### Disposal of the worn out vehicle

Vehicles that are no longer fit for service contain valuable recyclable materials. We recommend you cooperate with a waste management company with regard to the disposal of your vehicle.

### Warranty

The warranty conditions issued by our relevant sales company apply in all countries. We shall remedy possible malfunctions on your appliance within the warranty period free of cost, provided that a material or manufacturing defect is the cause. In a warranty case, please contact your dealer (with the purchase receipt) or the next authorised customer service site.  
(See overleaf for the address)

### Accessories and spare parts

Only use original accessories and original spare parts. They ensure that the appliance will run fault-free and safely. Information on accessories and spare parts can be found at [www.kaercher.com](http://www.kaercher.com).

## 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.

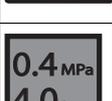
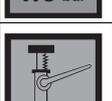
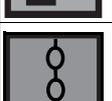
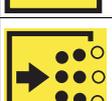
### ⚠ CAUTION

- 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.

## Symbols on the vehicle

	⚠ <b>DANGER</b> <b>Risk of burns from hot surfaces</b> Allow the vehicle to cool down before working on it.
	⚠ <b>DANGER</b> <b>Risk of fire</b> Do not sweep up burning or glowing objects such as cigarettes, matches or similar objects.
	⚠ <b>WARNING</b> <b>Risk of injury</b> Risk of being squeezed or hurt at the belts, side-brushes, waste container, cover.
	Tyre pressure
	Attachment point for jack
	Lashing point
	Max. load of the storage area 20 kg
	ON position: device can be driven with its own drive OFF position: device can be pushed
	Accelerator
	Coarse dirt flap pedal
	Wet sweeping flap
	Filter dedusting (manual)

## Intended use

Use the battery-operated sweeper for cleaning surfaces indoors and outdoors.

The sweeper is designed for commercial use.

Only use the sweeper in accordance with the information in these operating instructions. Any other use is considered improper use. The manufacturer assumes no liability for any resultant damage. The user is solely responsible for the risk.

No modifications must be made to the sweeper.

Only the areas approved by the company or the company's representatives must be driven on and cleaned.

## Foreseeable misuse

The device is not designed for continuously driving on slopes. Do not drive on slopes with a gradient of 12% for longer than 3 minutes.

Never sweep or suction up explosive liquids, gases, non-diluted acids or solvents (e.g. petrol, paint thinner, heating oil). They form explosive vapours or mixtures in conjunction with the suction air. Never sweep or suction up acetone, non-diluted acids or solvents, as they will corrode and damage the materials used on the device.

Never sweep or suction up reactive metal dusts (e.g. aluminium, magnesium, zinc). They form explosive gases in conjunction with highly alkaline or acidic cleaning agents.

Do not sweep or suction up burning or smouldering objects.

There is a risk of fire.

Do not sweep up any harmful substances.

Standing in hazard zones is prohibited. Operation in explosive spaces is prohibited.

Carrying passengers is prohibited.

This device must not be used to push / pull or transport objects.

## Suitable surfaces

The device is suitable for the following surfaces:

- Asphalt
- Industrial floors
- Screed
- Concrete
- Paving stones
- Carpets (only with optional kit)

## Function

The sweeper operates using the direct-throw principle.

1. The rotating side brush cleans corners and edges of the sweeping surface, and conveys the waste into the path of the roller brush.
2. The rotating roller brush conveys the swept material directly into the waste container.
3. The dust which is swirled up in the waste container is separated by a dust filter, and the suction fan suctions the filtered clean air.
4. The dust filter is cleaned manually by the user.

## Safety instructions

### Safety devices

Safety devices protect the user and may not be taken out of operation or functionally circumvented.

**Adhere to the safety instructions in the chapters!**

### Safety instructions for operation

⚠ **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. ● Check the device with the operating devices to make sure it is in proper condition and operational safe and reliable. If it is not in perfect condition, you must not use it. ● Adhere to the respective safety regulations in hazard zones (e.g. service stations). Never operate the device in explosive spaces. ● 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. **ATTENTION**

● Before starting work, the operator must check whether the safety devices have been attached properly and are fully functional.

● The device operator is responsible for accidents with other people and their property. **WARNING** ● The operator must wear close-fitting clothing and sturdy footwear. Avoid loose-fitting clothing.

● Children must be supervised to prevent them from playing with the appliance. ● Children and minors must not use the device. **ATTENTION** ● Check the immediate vicinity before setting off (e.g. children). Make sure you have a sufficient view.

● Never leave the device unsupervised as long as the device is secured to prevent unintentional movement. The parking brake is applied when the device is stationary. ● Remove the ignition key or KIK (Kärcher Intelligent Key) to prevent unauthorised use of the device. **CAUTION** ● Do not use the device in areas in which there is a possibility of being struck by falling objects.

### Safety instructions for driving

**Note** ● The list on the risk of overturning is not necessarily comprehensive. **DANGER** ● Danger of tilting if hill or slope is too steep! Observe the maximum permissible values in the technical data when driving up hills and slopes. ● Danger of tilting in case of excessive tilting at side! Observe the maximum permissible values in the technical data when driving lateral to the travel direction. ● Danger of tilting on unstable subsurfaces! Only use the device on firm subsurfaces.

⚠ **WARNING** ● Risk of accident due to not adapting speed. Approach corners slowly.

### Battery-operated devices

⚠ **DANGER** ● Risk of explosion! Only charge batteries with a suitable charger ● Highly explosive gas is produced when charging batteries in confined spaces. Only charge batteries in well ventilated spaces. ● Keep naked flames away from the battery or the battery charging room, and do not generate sparks or smoke in the vicinity of a battery of a battery charging room.

● Risk of explosion and short circuits. Do not place tools or similar items on the battery.

⚠ **CAUTION** ● Risk of injury from battery acid. Adhere to the respective safety regulations.

**ATTENTION** ● Adhere to the operating instruction of the manufacturer of the battery and charger. Adhere to the recommendations of the legislature regarding the handling of batteries.

● Never leave batteries in a discharged state. Charge batteries again as soon as possible. ● Keep batteries clean and dry in order to avoid leakage currents. Protect batteries from contamination, e.g. from metal dust. ● Dispose of used batteries in an environmentally friendly manner in accordance with the EC Directive 91/157/EEC or the respective national regulations.

### Safety instructions for transportation

⚠ **CAUTION**

● In order to prevent accidents or injuries, you must take into account the weight of the device, see chapter Technical data in the operating instructions.

● Shut the motor down prior to transportation. Secure the device, taking into account its weight. See chapter Technical data in the operating instructions.

### Care and service

⚠ **WARNING** ● Disconnect the battery before working on the electrical system. ● Before cleaning, maintenance, replacing parts and resetting to another function, you must switch off the device and remove the ignition key.

⚠ **CAUTION** ● Repairs may only be carried out by approved customer service sites or staff qualified in this area who are familiar with all relevant safety instructions.

**ATTENTION** • Adhere to the safety inspection requirements for mobile devices for industrial use in accordance with the locally applicable regulations (e.g. in Germany: VDE 0701). • Short-circuits or other damage. Do not clean the device with a hose or high-pressure water jet. • Always wear suitable gloves when working on the device.

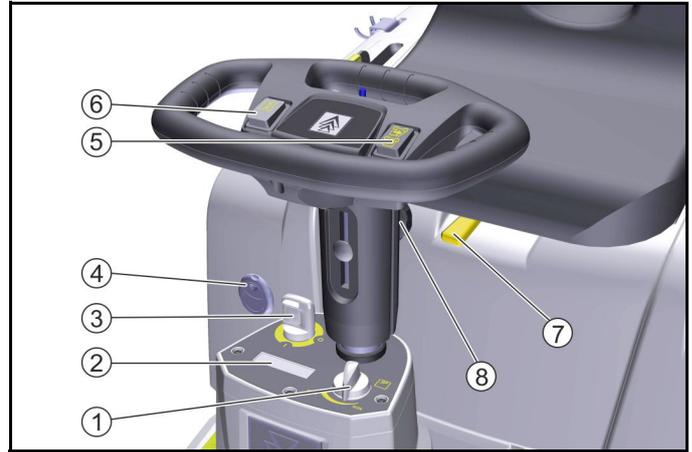
## Device description

### Device illustration



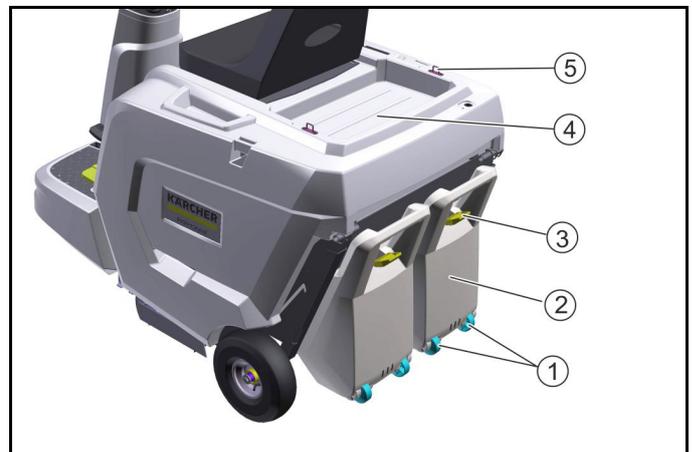
- ① Front wheel
- ② Side brush, right
- ③ "Hombase System" mount (optional)
- ④ Accelerator
- ⑤ Pedal for lowering/raising side brushes
- ⑥ Steering wheel
- ⑦ Manual filter cleaner  
– for cleaning the dust filter
- ⑧ LED flashing beacon (optional)
- ⑨ Driver's seat (with seat contact switch)
- ⑩ Cover
- ⑪ Rear wheel
- ⑫ Pedal for lowering/raising the roller brush  
– with roller brush wear indicator
- ⑬ Coarse dirt flap
- ⑭ Side brush, left (optional)
- ⑮ LED driving light  
– Is activated when the device is switched on
- ⑯ Charger  
– Only included with the scope of delivery for the KM 85/50 R Bp Pack
- ⑰ Batteries (already installed)  
– Only included with the scope of delivery for the KM 85/50 R Bp Pack

### Control elements



- ① Side brush speed  
– Continuously variable
- ② Screen display for:  
– Operating hours  
– Battery charge  
– Next service  
– Software version
- ③ Ignition key  
– Remove the ignition key: Every time you leave the device  
– Position 0: Device is off  
– Position 1: Device is ready for operation
- ④ Wet sweeping flap  
– Open for sweeping wet or damp surfaces
- ⑤ Selector switch for direction of travel  
– Push switch back: reverse  
– Push switch forward: forwards
- ⑥ Horn  
– Press switch to warn of danger
- ⑦ Seat adjuster  
– Pull lever to adjust seat horizontally
- ⑧ Steering wheel height adjustment  
– Open the nut to adjust the height

### Waste container



- ① Transport rolls
- ② Waste container
- ③ Waste container lock
- ④ Storage area  
– Max. load 20 kg
- ⑤ Fastening lugs

## Precommissioning

### Opening / closing the cover

#### ⚠ CAUTION

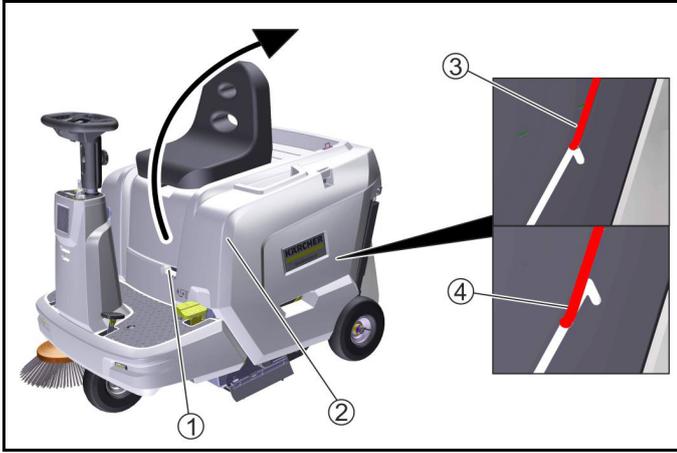
#### Risk of crushing fingers

Only use the recessed grip provided to open and close the cover.

#### Note

It is necessary to open the cover:

- 1 to connect / install the batteries.
- 2 to charge the batteries.
- 3 to clean / replace the dust filter.
- 4 to replace the roller brush.



- ① Recessed grip
- ② Cover
- ③ Cover in rest position
- ④ Closing the cover

1. To open the cover, take hold of the recessed grip at the front and pivot it backwards.
2. The cover is held at the end of the elongated hole in the rest position by the locking rod.
3. To close the cover, push the locking rod upwards so that it does not engage in place, then slowly pivot the cover down.

### Unloading instructions

#### ⚠ DANGER

#### Risk of accidents when unloading the device

Use a suitable ramp when unloading the device.

Do not use a forklift to unload / load the device.

Be aware of the weight of the device when unloading / loading.

#### ⚠ DANGER

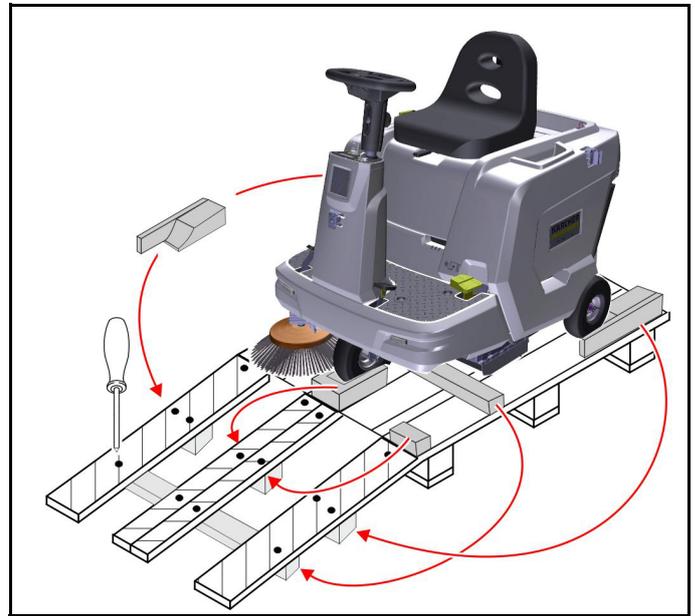
#### Risk of overturning in case of improper handling

Do not drive onto or from the ramp at an angle.

Do not turn on the ramp.

Drive at an adapted speed.

1. Connect the battery and charge it as necessary (see chapter "Battery").
2. When delivered on a pallet, the parking brake of the device is disabled. The neutral lever is in the OFF position (see chapter "Pushing / driving the device").
  - a When the parking brake is deactivated, the device can be pushed off the pallet. To drive, pull the neutral lever up to the ON position.
  - b If the device is to be moved from the pallet, pull the neutral lever up to the ON position.



If the device is delivered on a pallet, build a ramp to drive the device down using the boards included.

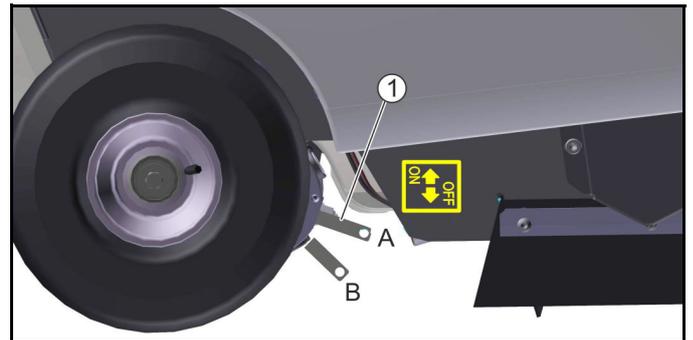
- 1 Cut the plastic packing strips and remove the film.
- 2 Connect the battery (see chapter "Batteries / chargers").
- 3 Remove the tightening strap fasteners.
- 4 Unscrew 4 marked flooring boards fastened with screws to the pallet.
- 5 Position these 4 boards on the edge of the pallet; align the boards such that they are beneath the wheels when driving the device off the pallet.
- 6 Place wooden blocks and a board and secure them using screws beneath the flooring boards to support them (see illustration).
- 7 Drive or push the device off the pallet using the ramp created (see chapter "Precommissioning | Pushing / driving the device").

### Pushing / driving the device

#### ⚠ DANGER

#### Risk of accidents due to absence of braking power

Secure the device to prevent it from rolling away before you actuate the neutral lever.



- ① Neutral lever

A position: device can be driven with its own drive

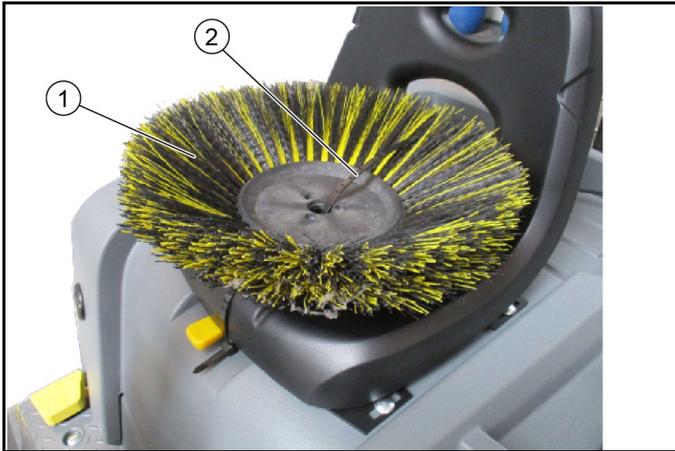
B position: device can be pushed

1. To push the device, push the neutral lever down (OFF).
2. After pushing, pull the neutral lever up (ON).

## Installing the side brush

### Note

The side brush(s) are attached to the driver's seat with a cable tie when delivered.



- ① Side brushes
- ② Cable ties

1. Attach the side brushes to the device before initial startup. See chapter "Changing the side brushes".

## Batteries / chargers

### ATTENTION

**Only use the batteries and chargers recommended by the manufacturer**

Only replace batteries with batteries of the same type.  
Before disposing of the vehicle, remove the battery and dispose of it in accordance with national or local regulations.

### Warning symbols

Observe the following warnings when handling the batteries:

	Observe notes in the instructions for the battery, on the battery and in these operating instructions.
	Wear eye protection.
	Keep acids and batteries away from children.
	Risk of explosion
	Fire, sparks, open flames and smoking are prohibited.
	Risk of acid burns
	First aid.
	Warning
	Disposal



Do not throw batteries in the bin.

## Safety instructions

### ⚠ DANGER

#### Risk of fire and explosion

Do not place tools or other objects on the battery.

Naked flames and smoking must be strictly avoided.

Ensure the room is well ventilated when charging batteries.

Only use batteries and chargers approved by Kärcher (original spare parts).

### ⚠ WARNING

#### Environmental risk due to improper disposal of batteries

Ensure that defect or used batteries are disposed of safely (contact a waste management company or Kärcher Service).

### Procedures in the event of unintentional release of battery acid

When used normally, and when observing the instructions, lead-acid batteries do not pose any risk.

However, keep in mind that lead-acid batteries contain sulphuric acid which can cause serious chemical burns and corrosion.

1. If there is spillage or, if the battery is leaking, acid is escaping, lay down a binding agent such as sand. Do not let it reach the sewer system, soil or a body of water.
2. Neutralise the acid with lime/baking soda and dispose of it according to local regulations.
3. Contact a waste management company to dispose of faulty batteries.
4. Rinse out your eyes or rinse off your skin with copious amounts of fresh water if acid splashes into your eyes or onto your skin.
5. Then consult a doctor immediately.
6. Wash any contaminated clothing with water.
7. Change clothes.

### Order numbers and dimensions of batteries and chargers

#### Note

The 85/50 R Bp Pack sweeper variant is supplied with batteries and charger.

- Kärcher order numbers for recommended batteries and chargers

Battery Maintenance-free	Order no. *	Volume m <sup>3</sup> **	Airflow m <sup>3</sup> /h ***
12 V / 105 Ah	6.654-141.0	2.64	1.06
12 V / 115 Ah	6.654-438.0	2.64	1.06

\* Device requires 2 batteries

\*\* Minimum volume of battery charging room

\*\*\* Minimum airflow between battery charging room and environment

Maximum dimensions when using other batteries	
L x W x H	408x348x284 mm

Charger	Order no.	Required quantity
24 V / 12 A	6.654-367.0	1

## Installing / connecting batteries (KM 85/50 R Bp)

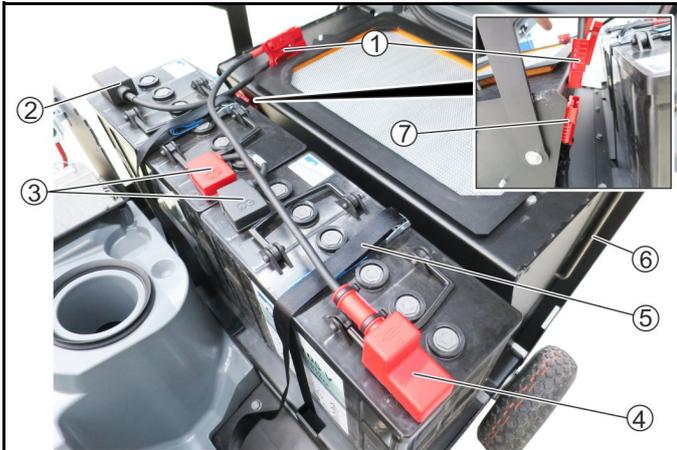
### ATTENTION

#### Risk of damage as a result of incorrect polarity

Make sure you connect the cables to the correct terminals.

#### Note

The following description shows the installation / connection of the 105 Ah batteries that we recommend.



- ① Battery plug connector
- ② Battery negative terminal connection 1
- ③ Connection cable
- ④ Battery positive terminal connection 2
- ⑤ Retaining strap
- ⑥ Cover locking rod
- ⑦ Device controller plug connector

1. Remove the ignition key from the device.
2. Open the cover and secure it with the locking rod.
3. Place both batteries in the mount.
4. Fasten the batteries with the retaining strap.
5. Connect the cables as shown. Make sure that the terminal caps are installed correctly.
6. Connect the battery plug connector to the device controller plug connector for commissioning.

## Installing / connecting batteries (KM 85/50 R Bp pack)

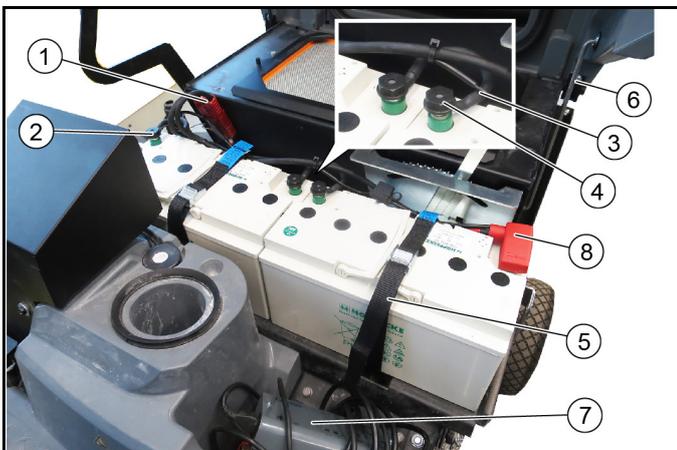
### ATTENTION

#### Risk of damage as a result of incorrect polarity

Make sure you connect the cables to the correct terminals.

#### Note

The batteries and charger are part of the scope of delivery for the KM 85/50 R Bp Pack version. Connect the batteries as described below.



- ① Battery plug connector
- ② Battery negative terminal connection 1
- ③ Connection cable
- ④ Terminal bolt
- ⑤ Retaining strap
- ⑥ Cover locking rod

- ⑦ Charger
  - ⑧ Battery positive terminal connection 2
1. Remove the ignition key from the device.
  2. Open the cover and secure it with the locking rod.
  3. Place both batteries in the mount.
  4. Fasten the batteries with the retaining strap.
  5. Connect the cables as shown. Make sure that the terminal caps are installed correctly.
  6. Fasten the minus terminal and connecting cable with terminal bolts. Tightening torque 20 Nm.  
Note: The terminal bolts may only be used once (order number 6.654-405.0).
  7. Connect the battery plug connector to the device controller plug connector for commissioning.

## Charging batteries

### ⚠ DANGER

#### Risk of fatal injury from electric shock

Only operate the charger from an appropriate power supply with sufficient fuse protection.

Only use the charger in dry rooms with sufficient ventilation.

### ATTENTION

#### Risk of damage due to deep discharge

The device has deep discharge protection, i.e. when the permitted minimum capacity level is reached, you have to drive the device directly to the charging station and avoid slopes.

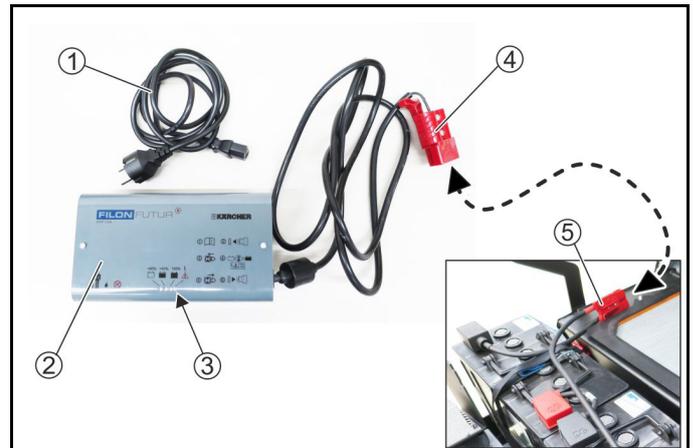
### ATTENTION

#### Risk of damage caused by charger

Do not connect the charger to the device controller plug connector.

#### Note

Adhere to the safety instructions for charging batteries.



- ① Mains cable with IEC connector
- ② Charger
- ③ LED displays
  - yellow = battery charging
  - green = battery > 80% charged
  - green = battery fully charged
  - red = fault
- ④ Charger plug connector
- ⑤ Battery plug connector

1. Shut down the device safely.
2. Open the cover completely.  
The cover must remain open during the charging process.
3. Connect the charger plug connector to the battery plug connector.
4. Connect the IEC connector to the charger. Connect the mains cable to the domestic mains socket. The charging process begins.  
Carry out the charging process in accordance with the information in the operating instructions for the charger.

5. Charge the batteries for 10-12 hours.  
The recommended chargers (for the respective batteries) are electronically controlled and stop the charging process automatically.

## Initial startup

### Before startup

1. Check the charging state of the battery.
  - a As necessary: Charge the battery.
2. Check the roller brush and side brush for any tangled pieces of tape.
  - a The inspection can be made with the waste containers removed.
  - b For safety reasons, tangled pieces of tape must only be removed when removed.
3. Clean the dust filter with the manual filter cleaner.
4. Empty both waste containers.
5. Check the steering wheel to make sure the lock nut is firmly tightened.
6. As necessary: Set the driver's seat and the steering wheel.

## Operation

### Safety devices

The device has a seat contact switch as a safety device. It brings the device to an abrupt halt if the driver gets up out of the driver's seat whilst the vehicle is in motion. The safety devices must not be removed or modified.

### Setting the driver's seat

#### ⚠ DANGER

#### Danger of accident

Only adjust the driver's seat when the device is standing.



- ① Lever for horizontal seat adjustment
- ② Driver's seat

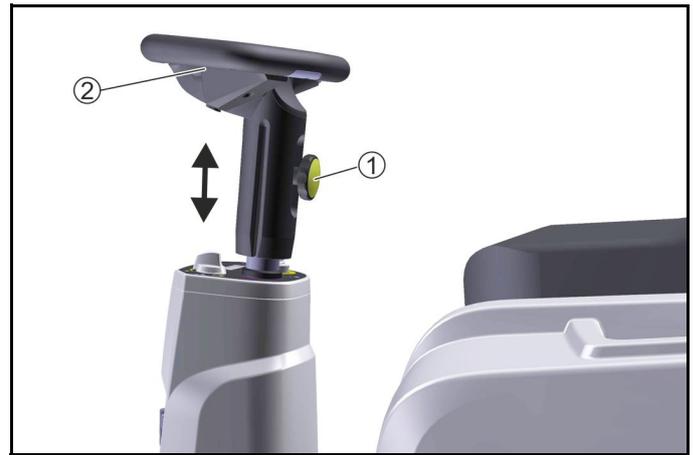
1. Pull the seat adjustment lever to the left (in the direction of travel).
2. Shift the driver's seat, release the lever and allow the seat to click into place.  
Move back and forth to check whether the driver's seat has clicked into place.

### Setting the steering wheel position

#### ⚠ DANGER

#### Danger of accident

Only adjust the position of the steering wheel when the device is standing.



- ① Lock nut for steering wheel height adjustment
- ② Steering wheel
3. Unfasten the lock nut.
4. Set the steering wheel to the desired height.
5. Tighten the lock nut.

### Driving the device

1. Sit in the driver's seat (seat contact switch).
2. Ignition key in position 1, device is ready for operation.
3. Select the direction of travel with the selector switch for the direction of travel.
4. Carefully press the accelerator.

### Driving over obstacles

1. Drive over fixed obstacles of up to 40 mm in height slowly with the coarse dirt flap open.
2. Drive over fixed obstacles of more than 40 mm in height with a suitable ramp.

### Information on sweeping operation

#### ⚠ DANGER

#### Risk of injury from abrupt stopping

Do not get out of the driver's seat while driving or carrying out cleaning work (the seat contact switch brings the device to an abrupt halt).

#### ⚠ DANGER

#### Risk of injury from stones or chippings

When the coarse dirt flap is open, beware of people, animals and objects in the vicinity (projectile stones or chippings are dangerous).

Do not carry out any cleaning work with the waste container removed.

#### ⚠ CAUTION

#### Risk of damage due to parcel tape or similar material

Do not sweep parcel tape, pieces of string or similar items (damage to the sweeping mechanics).

#### ATTENTION

#### Lack of traction due to wrong choice of tyres

If there is a lack of traction, switch to pneumatic tyres (standard tyres).

#### Note

Adjust the sweeping speed to the conditions in order to achieve optimum cleaning results.

#### Note

When driving in reverse, a warning sound is emitted.

## Note

If the battery voltage in the screen display drops to one bar, a warning sound is emitted every 2 minutes. In this case, you must charge the battery.

## Note

After a certain time (battery voltage), switch off the sweeping aggregates and charge the battery urgently.

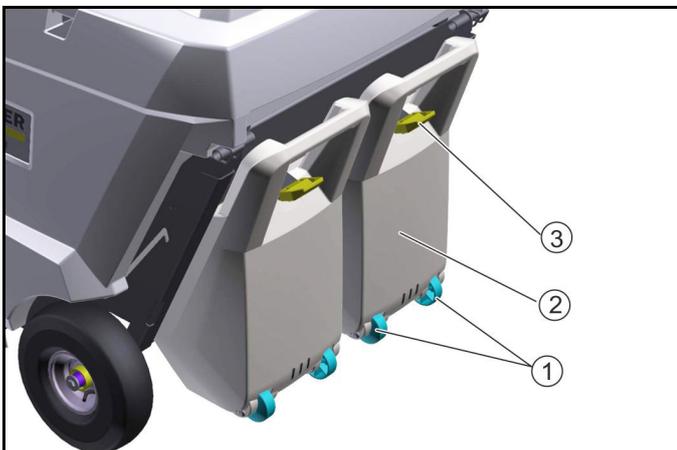
### Sweeping with roller brush and side brush



- ① Accelerator
- ② Side brush foot pedal (lower/raise)
- ③ Wet sweeping flap
- ④ Ignition key
- ⑤ Manual filter cleaner
- ⑥ Selector switch for direction of travel
- ⑦ Twist knob for side brush speed
- ⑧ Roller brush foot pedal (lower/raise)
- ⑨ Coarse dirt flap

1. For cleaning work, select the forwards direction of travel.
2. Lower the roller brush by pushing the foot pedal inwards. The roller brush and the suction fan start up.
3. For wet or damp surfaces, open the wet sweeping flap.
4. For cleaning near to edges, lower the side brush. To do so, push the foot pedal inwards.
  - a Set side brush speed to suit the sweeping job.
  - b The side brush speed can be reduced to a minimum using the twist knob in order to minimise the swirling up of dust.
  - c The side brush only starts up if the roller brush is switched on.
5. To take on larger objects (50 mm), briefly open the coarse dirt flap.
6. Clean the dust filter from time to time. To do so, move the manual filter cleaner several times back and forth.

### Emptying the waste container



- ① Transport rolls
- ② Waste container

### ③ Waste container lock

1. Clean the dust filter with the manual filter cleaner.
2. Open the lock on the waste container.
3. Pull out the waste container.
4. Empty the waste container.

When emptying the waste container, make sure that the sealing strip does not become damaged.

5. Raise the waste container at the front and push it in all the way.
6. Check whether the waste container has clicked into place.

### Stopping and parking the device

1. Take your foot from the accelerator.
2. Raise the roller brush and side brush.
3. Remove the ignition key.
4. Charge the battery.
5. Empty the waste container.
6. Only park the device on an even surface (< 2% gradient).

### Transport

#### ⚠ CAUTION

##### **Risk of injury and damage**

Be aware of the weight of the device during transportation.

1. The device has 4 marked lashing points. They are for use when fastening the device.
2. When transporting the device on vehicles, secure it to prevent it from slipping or overturning in accordance with the respective valid guidelines.

### Storage

#### ⚠ WARNING

##### **Risk of injury and damage**

Note the weight of the device.

1. Place the device in a dry, protected place on an even surface.
2. Remove the ignition key.
3. Clean the vehicle inside and out.
4. Disconnect the battery plug connector.
5. Recharge the battery every 2 months.

### Care and maintenance

#### General notes

#### ⚠ DANGER

##### **Risk of accidents and injuries due to unintentional movement of the device**

Switch off the device before carrying out any care and maintenance work, and remove the ignition key.

Disconnect the central battery plug connector.

#### Note

- Adhere to the safety instructions for care and maintenance.

#### Cleaning the device

#### ⚠ CAUTION

##### **Risk of short circuits due to water stream**

Do not clean the device with a hose or high-pressure water jet.

#### ⚠ DANGER

##### **Health risk from dust**

Wear a dust mask and safety goggles when cleaning with compressed air.

#### ATTENTION

##### **Risk of damage to the surfaces**

Do not use any scouring agents or aggressive cleaning agents for cleaning purposes.

1. Blow out the inside of the device with compressed air.
2. Clean the inside and outside of the device with a damp cloth, soaked in mild washing lye.

## Maintenance intervals

### Service hours counter / operating hours / battery charge

#### ATTENTION

Observe the displays on the display screen when switching on the device.



- ① Display of next service time for customer service
- ② Battery charge display  
E - Empty  
F - Full
- ③ Operating hours display

### Maintenance by the customer

#### Note

All servicing and maintenance work must be performed by a qualified specialist. If necessary, you can consult a Kärcher specialist dealer at any time.

- Daily maintenance
  - 1 Check the roller brush and side brush for any tangled pieces of tape.
  - 2 Check the tyre pressure.
  - 3 Check that the operative elements are fully functional.
  - 4 Clean the dust filter.
- Weekly maintenance
  - 1 Check the moving parts to make sure that they move smoothly.
  - 2 Check the sealing strips in the sweeping area to make sure they are set correctly and to check for wear.
  - 3 Check the roller brush and side brush for wear.
  - 4 Check the dust filter and clean the filter box as necessary.
  - 5 Check the seat contact switch to make sure it is fully functional.
  - 6 Check the tension of belts, check for wear and check that they are functional.
- Maintenance after wear
  - 1 Replace the sealing strips.
  - 2 Replace the roller brush (observe the wear indicator).
  - 3 Replace the side brush.

#### Note

See chapter "Maintenance work" for descriptions.

### Maintenance by Customer Service

#### Note

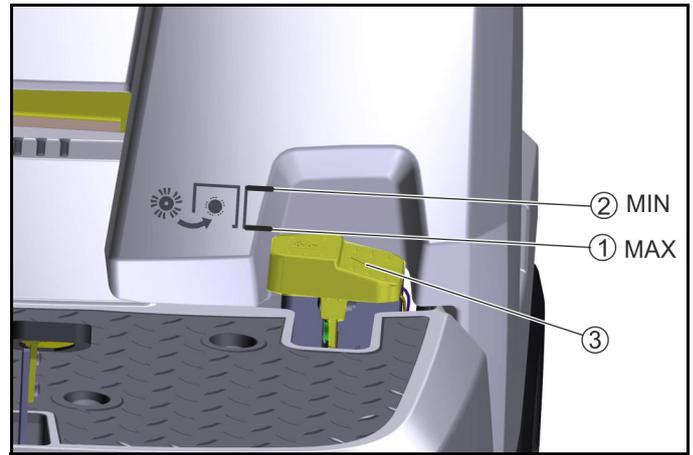
In order to preserve warranty entitlements, all servicing and maintenance work during the warranty period has to be performed by an authorised Kärcher Customer Service, in accordance with the inspection check list.

The next service time is displayed when switching on the KM 85/50 R Bp.

- Maintenance every 200 operating hours
  - 1 Have maintenance work carried out as per inspection check list 5.950-051.0.

## Maintenance work

### Checking for wear on the roller brush



- ① New roller brush
- ② Roller brush worn
- ③ Roller brush foot pedal

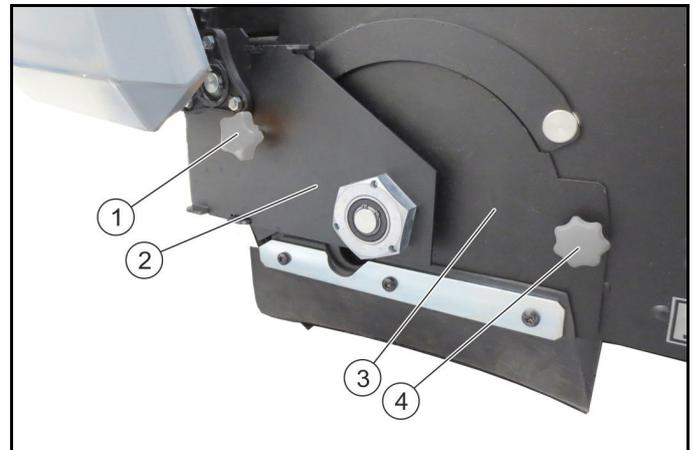
1. Read the roller brush wear.
2. If the foot pedal is set to the MIN position: Replace the roller brush.

### Checking the roller brush for entangled pieces of tape

1. Check the roller brush and side brush for any tangled pieces of tape.
  - a The inspection can be made with the waste containers removed.
  - b For safety reasons, tangled pieces of tape must only be removed when removed.

### Replacing / inspecting the roller brush

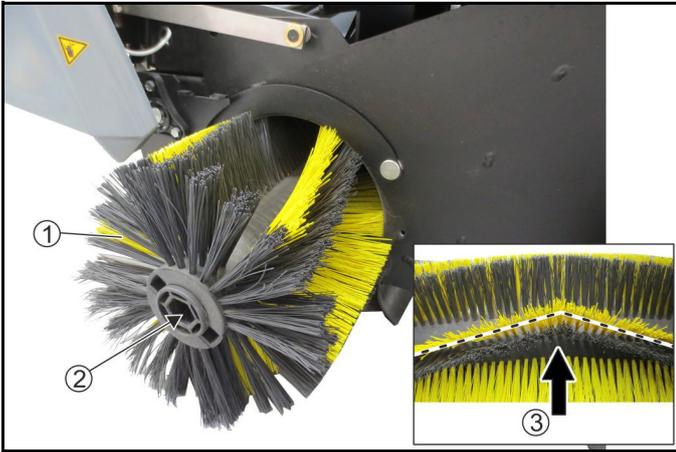
#### Removing the roller brush



- ① Knurled screw, left
- ② Bearing plate
- ③ Cover plate
- ④ Knurled screw, right

1. Open and secure the cover.
2. Lower the roller brush.
3. Unscrew the left-hand knurled screw.
4. Remove the bearing plate.
5. Unscrew the right-hand knurled screw.
6. Remove the cover plate.

## Installing the roller brush



- ① Roller brush
- ② Brush roller mount
- ③ Forwards direction of travel

1. Pull out the roller brush.
2. Check for wear and entangled pieces of tape.
3. As necessary: Install the new roller brush.
4. When installing, make sure that it is installed in the correct position (the brush roller mounts are identical).
5. Install the cover plate and bearing plate in reverse order.

### Replacing the side brush



- ① Side brush
- ② Screws

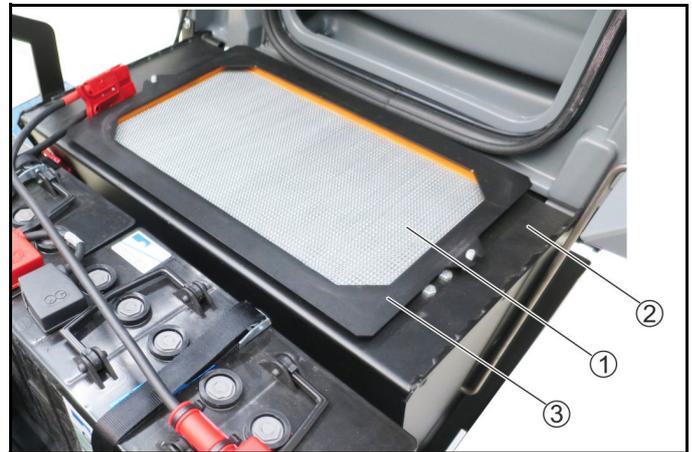
1. Unscrew the 3 screws on the underneath.
2. Remove the side brush.
3. If necessary, clean the mount.
4. Connect the new side brush to the driver and fasten it in place with the screws.

### Replacing the dust filter

#### **⚠ DANGER**

#### **Health risk from dust**

Wear a dust mask and safety goggles when working on the filter system.



- ① Dust filter (flat filter)
- ② Frame
- ③ Hold-down plate

1. Shut down the device safely.
2. Clean the dust filter with the manual filter cleaner.
3. Completely open and secure the cover.
4. Remove the hold-down plate.
5. Remove the dust filter upwards.
6. As necessary: Clean the dust filter. (vacuum or carefully tap it out) or insert a new dust filter.

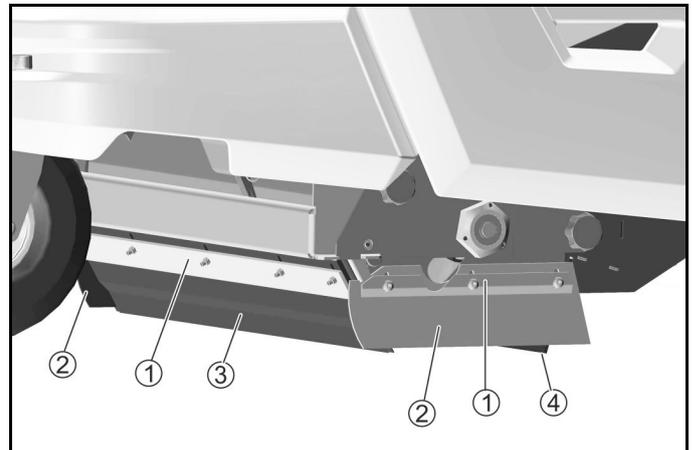
### Replacing / setting the sealing strips

Sealing strips	Settings
Side sealing strips	Distance from floor 2 - 3 mm
Front sealing strip	Trailing distance 10-15 mm
Rear sealing strip	Trailing distance 5-10 mm

#### **Note**

The trailing distance of the front and rear sealing strip defines how much the sealing lip folds backwards when driving the device forwards.

When set correctly, there must be a gap between the side sealing strips and the floor.



- ① Fastening
- ② Side sealing strip
- ③ Front sealing strip
- ④ Rear sealing strip

1. Unfasten the fastening of the sealing strips.
2. Set the sealing strip by shifting it in the elongated holes.
3. Refer to the table for the values.
4. Once the settings are correct, fasten the sealing strips.

## Fuses

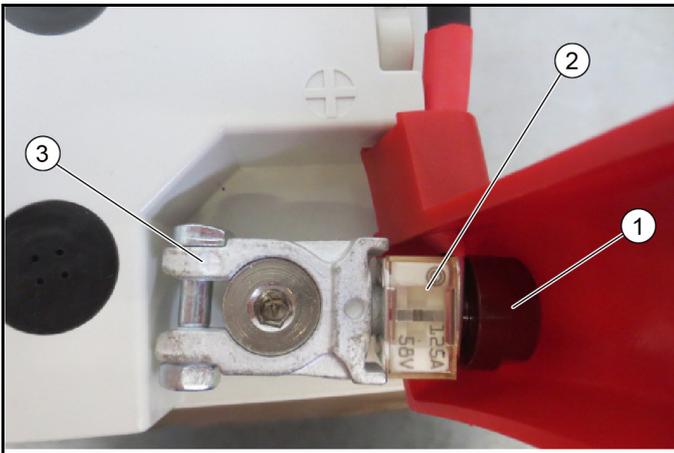
### Checking the main fuse



- ① Main fuse, 125 A
- ② Positive terminal connection
- ③ Terminal cover

1. Remove the terminal cover.
2. Check the main fuse.
3. If the main fuse is faulty, there are various possible causes. In such a case, contact Customer Service.

### Check the main fuse (KM 85/50 R Bp pack)



- ① Terminal nut

#### Note

Tightening torque 6 Nm

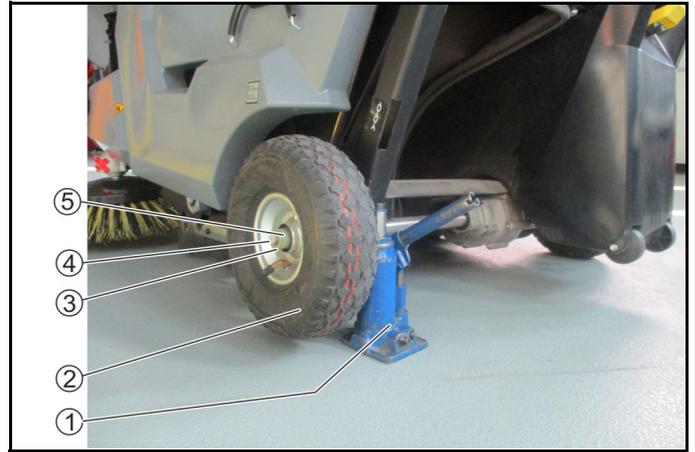
- ② Main fuse, 125 A
- ③ Battery terminal, plus terminal

#### Note

Tightening torque 8 Nm

1. Open terminal nut.
2. Check the main fuse.
3. If the main fuse is faulty, there are various possible causes. In such a case, contact Customer Service.

## Replacing the rear wheel

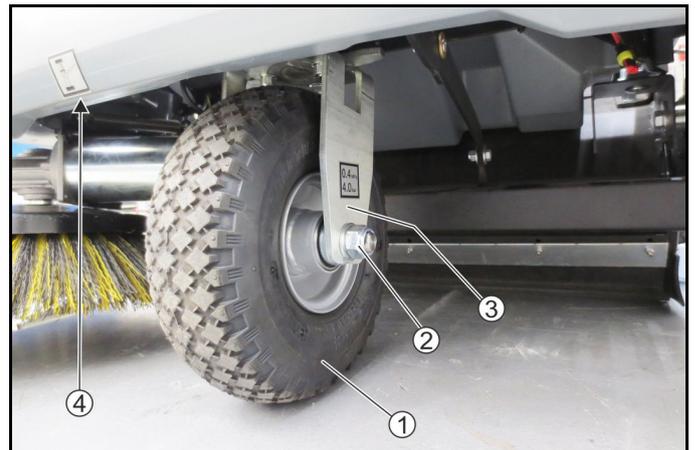


- ① Jack
- ② Rear wheel
- ③ Washer
- ④ Screw
- ⑤ Sleeve

1. Unfasten the screw a little, do not completely unscrew it.
2. Lift the device with the jack at the attachment point.
3. Unscrew the screw, remove the washer from the sleeve.
4. Remove the rear wheel from the axle.
5. Put on a new rear wheel and tighten the screw, washer and sleeve.

Beware of the feather key!

## Replacing the front wheel



- ① Front wheel
- ② Nut and washer
- ③ Wheel fork
- ④ Attachment point for jack

1. Unfasten the nut on the left and right front wheels a little (do not unscrew completely).
2. Raise the device 6-8 cm at the attachment point, and support it.
3. Remove the front wheel with the axle downwards.
4. Insert a new front wheel into the wheel fork and tighten it.  
The washer is placed between the wheel fork and the nut.

## Checking the tyre pressure

### ⚠ CAUTION

Never exceed the maximum permissible tyre filling pressure.

1. See the "Technical data" for the tyre pressure.

## Accessories / spare parts

The following is an overview (excerpts thereof) of wear parts or optionally available accessories.

Accessories	Description	Order no.
Side brush, stand-ard	For indoor and outdoor surfaces	6.906-132.0
Side brush, soft	For fine dust, on indoor and outdoor surfaces Moisture resistant	6.905-626.0
Side brush, hard	For removal of stubborn dirt, for outdoor use Moisture resistant	6.905-625.0
Roller brush, standard	For indoor and outdoor surfaces Wear and moisture resistant	4.762-430.0
Roller brush, soft	For fine dust, on indoor and outdoor surfaces Moisture resistant	4.762-442.0
Roller brush, hard	For removal of stubborn dirt, for outdoor use Moisture resistant	4.762-443.0
Roller brush, anti-static	For cleaning surfaces which are susceptible to static charges (e.g. carpets)	4.762-441.0
Dust filter	Replace the flat filter at least 1x annually Moisture resistant, washable	5.731-585.0
Sealing strip, side Left and right		5.394-833.0
Sealing strip, front		5.394-834.0
Sealing strip, rear		5.394-832.0
Tyre set, solid rubber	Fail-safe For sweeping metal shavings, glass fragments etc.	2.852-501.0
Carpet cleaning set	For cleaning carpets	2.852-499.0
Side brush attachment kit, left	Has to be installed by Customer Service	2.852-321.0
Attachment kit for LED flashing beacon	Has to be installed by Customer Service	2.852-500.0
Home Base accessories	Description	Order no.
Adapter	For securing to Home Base rail (device)	5.035-488.0
Double hook	Can only be used in conjunction with adapter	6.980-077.0
Bottle holder	Can only be used in conjunction with adapter	4.070-006.0
Coarse dirt pliers set	Coarse dirt pliers, including waste bag and fastening for device	2.852-497.0

## Troubleshooting guide

You can remedy minor faults using the following overview.  
If in any doubt, please contact your authorised Customer Service.

### ⚠ **DANGER**

#### **Risk of accidents and injuries due to unintentional movement of the device**

Switch off the device before carrying out any care and maintenance work, and remove the ignition key.

Disconnect the central battery plug connector.

### ⚠ **DANGER**

#### **Risk of electric shock**

Disconnect the central battery plug connector when working on electrical components.

Repair work and work on electrical components must only be performed by your authorised Customer Service.

Malfunction	Remedy
<b>Device not running</b>	<ul style="list-style-type: none"> <li>● Charge the battery.</li> <li>● Check/replace the fuse protection on the battery terminal.</li> <li>● Sit in the driver's seat (seat contact switch).</li> <li>● Ignition key to position 1.</li> <li>● Check the position of the neutral lever.</li> <li>● Check the connected battery terminals.</li> <li>● Check the battery plug connector.</li> </ul>
<b>Dust when sweeping / insufficient suction power</b>	<ul style="list-style-type: none"> <li>● Empty the waste container.</li> <li>● Switch on the roller brush or suction fan.</li> <li>● Check / replace the seals.</li> <li>● Check / clean / replace the dust filter.                             <ul style="list-style-type: none"> <li>a Check that the dust filter is firmly in place.</li> <li>b In case of light soiling, clean the dust filter.</li> <li>c In case of damage or heavy soiling, replace the dust filter.</li> </ul> </li> <li>● Check the sealing strips for wear / set / replace them.</li> <li>● Close the wet sweeping flap.</li> <li>● Reduce the speed of the side brush.</li> <li>● Completely raise the side brush.</li> </ul>
<b>Sweeping performance not satisfactory</b>	<ul style="list-style-type: none"> <li>● Check the roller brush and side brush for wear, replace them as necessary.</li> <li>● Check the sealing strips for wear, replace them as necessary.</li> <li>● Check that the coarse dirt flap is fully functional.</li> <li>● Check that the roller brush is correctly in place.</li> </ul>
<b>Activation of roller brush / side brush not working</b>	<ul style="list-style-type: none"> <li>● The side brush only runs if the roller brush is switched on &gt; lower the roller brush.</li> <li>● Contact Customer Service.</li> </ul>
<b>The roller brush / side brush are not running</b>	<ul style="list-style-type: none"> <li>● Check the roller brush / side brush for any tangled pieces of tape.</li> <li>● Have the micro switch checked by Customer Service.</li> </ul>

## Technical data

		<b>KM 85/50 R Bp 1.351-126.0</b>	<b>KM 85/50 R Bp Pack 1.351-127.0</b>	<b>KM 85/50 R Bp Pack 2SB 1.351-128.0</b>
<b>Device performance data</b>				
Travel speed	km/h	6	6	6
Recommended sweeping speed	km/h	4	4	4
Climbing ability (max.)	%	12 (max. 3 minutes)	12 (max. 3 minutes)	12 (max. 3 minutes)
Working width without side brushes	mm	615	615	615
Working width with 1 side brushes	mm	850	850	850
Working width with 2 side brushes	mm			1085
Turning circle	m	2,5	2,5	2,5
<b>Theoretical surface performance</b>				
Surface performance without side brushes	m <sup>2</sup> /h	3690	3690	3690
Surface performance with 1 side brushes	m <sup>2</sup> /h	5100	5100	5100
Surface performance with 2 side brushes	m <sup>2</sup> /h			6510
Mean power input	W	1000	1000	1000
Degree of protection		IPX3	IPX3	IPX3
<b>Battery</b>				
Battery type		---	Maintenance-free	Maintenance-free
Battery capacity	Ah	---	115	115
Working voltage of the battery	V	24	2 x 12 = 24	2 x 12 = 24
<b>Charger</b>				
Mains voltage	V	---	95 - 253	95 - 253
Frequency	Hz	---	50/60	50/60
Protection class		---	II	II

		KM 85/50 R Bp 1.351-126.0	KM 85/50 R Bp Pack 1.351-127.0	KM 85/50 R Bp Pack 2SB 1.351-128.0
<b>Ambient conditions</b>				
Ambient temperature	°C	-5 to +40	-5 to +40	-5 to +40
Humidity, non-condensing	%	0 - 90	0 - 90	0 - 90
<b>Dimensions and weights</b>				
Length x width x height	mm	1270 x 870 x 1170	1270 x 870 x 1170	1270 x 870 x 1170
Net weight (transport weight)	kg	180	230	238
Approved total weight	kg	400	400	400
<b>Waste container</b>				
Waste container volume	l (kg)	2 x 25	2 x 25	2 x 25
<b>Filter and suction system</b>				
Filter system		Flat fold filter, manual cleaning	Flat fold filter, manual cleaning	Flat fold filter, manual cleaning
Dust class		M	M	M
Suction system nominal negative pressure	mbar	1	1	1
Suction system nominal volumetric flow	l/s	47,1	47,1	47,1
<b>Tyres</b>				
Tyre size, rear		250 mm	250 mm	250 mm
Tyre pressure	MPa (bar)	0,4 (4)	0,4 (4)	0,4 (4)
<b>Determined values in acc. with EN 60335-2-72</b>				
Hand-arm vibration value	m/s <sup>2</sup>	1,7	1,7	1,7
Seat vibration value	m/s <sup>2</sup>	0,4	0,4	0,4
Uncertainty K	dB(A)	0,2	0,2	0,2
Sound pressure level L <sub>pA</sub>	dB(A)	69	69	69
Uncertainty	dB(A)	3	3	3
Sound power level L <sub>WA</sub> + K uncertainty <sub>WA</sub>	dB(A)	88	88	88
Uncertainty K <sub>WA</sub>	dB(A)	3	3	3

Subject to technical modifications.

EN 300 330 V2.1.1  
EN 62368-1:2014/AC:2015

#### National standards used

-

#### Applied conformity evaluation method

2000/14/EG: Annex V

#### Sound power level dB(A)

Measured: 85

Guaranteed: 88

The undersigned act on behalf and under the power of attorney of the company management.



H. Jenner

Chairman of the Board of Management



S. Reiser

Director Regulatory Affairs & Certification

Documentation supervisor:

S. Reiser

Alfred Kärcher SE & Co. KG

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Ph.: +49 7195 14-0

Fax: +49 7195 14-2212

Winnenden, 2018/09/01

#### TCU (Transmission Control Unit)

Radio module	Frequency MHz	Transmission power Watts
GSM	824.2-848.8	1510
	1850.2-1909.8	870
WLAN	2400-2483	96

#### EU Declaration of Conformity

We hereby declare that the machine described below complies with the relevant basic safety and health requirements in the EU Directives, both in its basic design and construction as well as in the version placed in circulation by us. This declaration is invalidated by any changes made to the machine that are not approved by us.

Product: Sweeper vacuum

Type: 1.351-xxx

#### Currently applicable EU Directives

2006/42/EC (+2009/127/EC)

2014/30/EU

2000/14/EC

2014/53/EU (TCU)

#### Harmonised standards used

EN 60335-1

EN 60335-2-72

EN 60335-2-29

EN 62233: 2008

EN 55012: 2007 + A1: 2009

EN 61000-6-2: 2005

TCU

EN 301 511 V9.0.2

EN 300 440 V2.1.1

EN 300 328 V2.1.1

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## Remarques générales

  Veuillez lire le présent le manuel d'instructions original et le chapitre des consignes de sécurité avant la première utilisation de l'appareil. Suivez ces instructions.

Conservez les pour une utilisation ultérieure ou pour le propriétaire suivant.

### Contrôle de la livraison

Lors de la remise du véhicule, veuillez déclarer aussitôt les défauts et dommages dus au transport identifiés à votre vendeur ou concession.

### Protection de l'environnement

 Les matériaux d'emballage sont recyclables. Veuillez éliminer les emballages dans le respect de l'environnement.

 Les appareils électriques et électroniques contiennent des matériaux précieux recyclables et souvent des composants tels que des piles, batteries ou de l'huile représentant un danger potentiel pour la santé humaine et l'environnement, s'ils ne sont pas manipulés ou éliminés correctement. Ces composants sont cependant nécessaires pour le fonctionnement correct de l'appareil. Les appareils marqués par ce symbole ne doivent pas être jetés dans les ordures ménagères.

### Remarques concernant les matières composantes (REACH)

Les informations actuelles concernant les matières composantes sont disponibles sous : [www.kaercher.com/REACH](http://www.kaercher.com/REACH)

### Élimination du véhicule utilisé

Les véhicules usés contiennent de précieux matériaux recyclables. Pour l'élimination de votre véhicule, nous vous conseillons de collaborer avec une entreprise spécialisée en élimination.

### Garantie

Les conditions de garantie publiées par notre société commerciale compétente s'appliquent dans chaque pays. Nous remédions gratuitement aux défauts possibles sur votre appareil dans la durée de garantie dans la mesure où la cause du défaut est un vice de matériau ou de fabrication. En cas de garantie, veuillez vous adresser à votre distributeur ou au point de service après-vente autorisé le plus proche avec la facture d'achat. (Voir l'adresse au dos)

### Accessoires et pièces de rechange

Utiliser exclusivement des accessoires et pièces de rechange originaux. Ceux-ci garantissent le fonctionnement sûr et sans défaut de votre appareil.

Des informations sur les accessoires et pièces de rechange sont disponibles sur le site Internet [www.kaercher.com](http://www.kaercher.com).

## Niveaux de danger

### ⚠ DANGER

• Indique un danger immédiat qui peut entraîner de graves blessures corporelles ou la mort.

### ⚠ AVERTISSEMENT

• Indique une situation potentiellement dangereuse qui peut entraîner de graves blessures corporelles ou la mort.

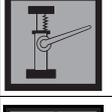
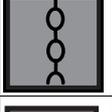
### ⚠ PRÉCAUTION

• Indique une situation potentiellement dangereuse qui peut entraîner des blessures légères.

### ATTENTION

• Indique une situation potentiellement dangereuse qui peut entraîner des dommages matériels.

## Symboles sur le véhicule

	<p><b>⚠ DANGER</b>  <b>Risque de se brûler sur les surfaces très chaudes !</b>  <i>Laissez le véhicule refroidir avant de travailler dessus.</i></p>
	<p><b>⚠ DANGER</b>  <b>Risque d'incendie</b>  <i>Ne pas balayer d'objets en feu ou incandescents, comme, p.ex., des cigarettes, des allumettes ou similaires.</i></p>
	<p><b>⚠ AVERTISSEMENT</b>  <b>Risque de blessures</b>  <i>Risque d'écrasement et de cisaillement sur la sangle, le balai latéral, la cuve à poussière, le capot.</i></p>
	Pression de remplissage des pneus
	Prise pour le cric
	Point d'attache
	Charge max. de la surface de rangement : 20 kg
	Position ON : l'appareil se déplace avec son propre entraînement Position OFF : l'appareil peut être poussé
	Pédale d'accélération
	Pédale du flap pour déchets volumineux
	Clapet de balayage humide
	Nettoyage de filtre (manuel)