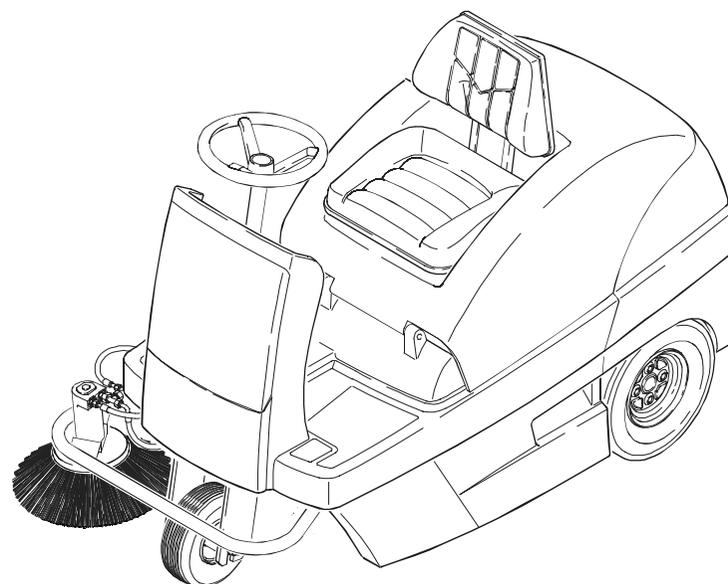
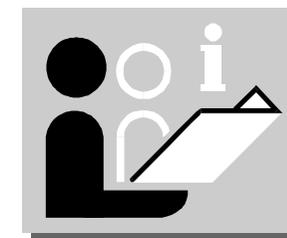


KM 100/100 R D



1.280-114



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For your own safety!

General notes

Reading and observing prior to use of the machine is essential!

- Notify your sales outlet if during unpacking you detect damage that has occurred in transit.
- Read the operating instructions of your machine prior to its initial operation and especially observe the safety notes.
- The warning and information labels attached to the machine provide important information on its safe operation.
- In addition to the instructions in the operating instructions, general safety- and accident prevention-regulations from lawgivers must be followed.

Use

- The machine is to be used exclusively according to the specifications given in these operating instructions.
- Prior to its use the machine and its attachments must be checked for their proper condition and operational reliability. It must not be used if its condition is not faultless.
- No modifications permitted on the machine.
- The machine is for sweeping outdoor surfaces.

- Never absorb explosive liquids, inflammable gases or undiluted acids and solvents! These include petrol, paint thinner or fuel oil, which can develop explosive vapours or mixtures due to the turbulence of the suction air, and also acetone, undiluted acids and solvents, since these attack the materials used in the manufacture of the machine.
- Do not sweep up/absorb burning or smouldering objects.

Only if clearly identified as such is this machine suitable for suction removal of health hazardous dusts.

Observe the safety-related notes given in the operating instructions.

- Suitable only for the surfaces listed in the operating instructions.
- The appliance may be used on only the areas cleared for its use by the factory owner or a person authorized by him.
- Keep clear of the danger area. Its operation in explosion hazardous locations is prohibited.
- The following applies generally: Keep combustible materials away from the machine (danger of explosions-/fire).

Operation

- The rules, regulations and stipulations applying to motor vehicles must always be observed.
- The operator must use the machine for its agreed proper purpose. When driving it he must allow for the site's conditions, and when working with the machine be must look out for bystanders, especially children.
- The machine may only be used by persons instructed in how it is to be used, who have proved their capability to use it and who have expressly been instructed to use it.
- It is forbidden for children or juveniles to operate the machine.
- The ignition key must be removed from machines provided with it in order to prevent unauthorised use of the machine.
- The machine must never be left unsupervised while the motor is running. The operator is not allowed to leave the machine unless the engine has been turned off, the machine is secured against unintended movements, the parking brake, if provided, is actuated, and the ignition key has been removed.
- On slopes the angle of inclination to the side and in the direction of motion must not exceed the value given in the operating instructions.

Transport

- The motor must be turned off when the machine is transported.
- Secure the machine with guy belts, ropes or chains.
- Immobilise the machine at the wheels with chocks.

Maintenance

- Switch off the machine and, if provided with one, remove the ignition key prior to cleaning it and performing maintenance work on it or when resetting it to a different operation.
- The battery plug connection or the battery must be disconnected for work on the electrical installation of battery-powered machines.
- Do not clean the machine with fluid jets.
- Repairs may only be carried out by approved customer service centres or by technical personnel trained in this field which are familiar with all relevant safety regulations.
- Mobile, commercially used machines are subject to the safety inspection in compliance with VDE 0701.
- Use only the main brushes/side brushes supplied with the machine or specified in the operating instructions. Using other main brushes/side brushes can be detrimental to safety.
- The machine is not be cleaned by hosing down or with a high-pressure water jet (danger of short circuits or other damage).

Accessories and spare parts

- Only accessories and spare parts cleared by the manufacturer may be used. Genuine accessories and spare parts ensure that the machine can be operated safely and trouble-free.

Ride-on machine

- Ride-on machines are not approved for public road traffic. Please ask your retailer for the conversion kit for street-worthiness.
- Giving companions lifts is not permissible.
- Ride-on machines may be set in motion only from the seat.

Machines with a combustion engine

- The exhaust opening must not be sealed.
- Do not bend over or touch the exhaust opening (danger of burns).
- Do not touch or grasp the drive motor (danger of burns).
- Adequate ventilation and extraction of exhaust emissions must be provided when operating the machine indoors. (Danger of poisoning)
- Exhaust gases are toxic and damaging to health; do not inhale them.
- The engine takes approx. 3...4 s to run down after being shut off. Never enter operating area during this period!

The following must be observed when refuelling machines with a combustion engine:

- Only the fuel specified in the operating instructions may be used. An explosion hazard exists with unsuitable fuels.
- The engine must be switched off.
- Do not fill-in fuel in closed rooms.
- Make sure that no fuel comes into contact with hot surfaces.
- Do not use any burning or glowing objects or carry or put them near the machine during refuelling (explosion hazard).
- Fill the tank at the most 1 cm below the lower edge of the filler neck, since the fuel expands in heat.
- Wipe off spilled over fuel and close tank cap tightly.

Risk of overturning on too high gradients!

! Danger!
The machine could topple over when driving and turning on slopes.

- Drive only on slopes up to 18 % in the travelling direction.
- At right angles to direction of travel only negotiate gradients up to a maximum of 15 %.

Risk of overturning when taking bends rapidly!

! Danger!
The machine can topple-over when driving fast around curves.
➤ Drive slowly in curves.

Danger of tipping over given an unstable travelling surface!

! Danger!
The machine can tip over given an unstable travelling surface.
➤ Move the machine exclusively on a solid travelling surface.

Danger of tipping over given a sideways incline that is too large!

! Danger!
The machine can tip over given an incline of more than 15 %.

For our environment

Please dispose of packaging environmentally responsibly



The packaging materials are recyclable. Please do not throw the packaging in with household rubbish but take it to a recycling centre.

Please dispose of scrapped units environmentally-responsibly



Scrapped units consist of valuable recyclable materials that should be taken to a recycling centre. Batteries, oil and similar products must not be allowed to contaminate the environment. Therefore, please dispose of scrapped units via appropriate disposal systems.

Please dispose of batteries and accumulators ecologically



Batteries and accumulators contain substances that are not allowed to contaminate the environment. Please, therefore, dispose of them in appropriate recycling systems.

Please do not allow engine oil, fuel oil, diesel and petrol

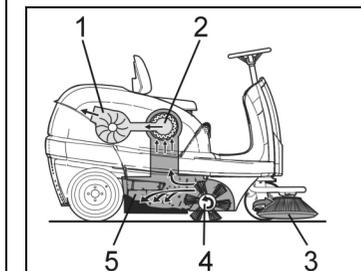


to contaminate the environment. Please protect the ground and dispose of used oil ecologically.

Intended use

- This sweeping machine is designed for sweeping surfaces in outdoor areas.
- It is not intended for use on public traffic routes.
- It is not suitable for health-hazardous dusts.

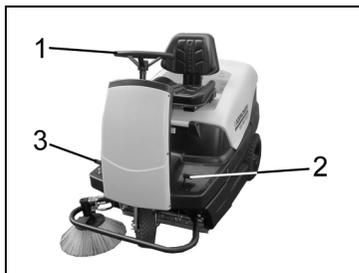
Function description - sweeping machine



The KM 100/100 R sweeper operates according to the throw-over principle.

- The side brush (3) cleans corners and edges of the sweeping surface and transports the dirt in the path of the main brush.
- The rotating main brush (4) transports the dirt directly into the debris container (5).
- The dust swirled up in the container is separated by way of the dust filter (2) and the filtered, clean air removed by the suction turbine (1).

Control elements



- 1. Steering wheel
- 2. Raising/lowering coarse-dirt flap pedal
- 3. Forward driving/reversing drive pedal



- 1. Raising/lowering main brush
- 2. Raise/lower side brush
- 3. Filter de-duster
- 4. Ignition switch
- 5. Elapsed-time meter
- 6. Horn

Machine parts



- 1. Unit cover
- 2. Debris container (bilateral)
- 3. Coarse-dirt flap
- 4. Roller
- 5. Side brush

Before first operating

The sweeper is provided with a hydrostatic drive. Therefore, when the freewheel lever is engaged in its top position it is only possible to push the machine.

Open/close unit cover



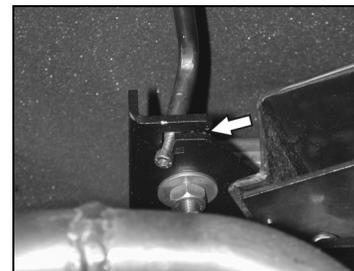
- Open unit cover
 - Lift unit cover up at the provided handle grip



In its open position the unit cover is secured by a stay bar.



- Pull stay bar out of the bracket



- Insert the stay bar into the adapter at the suction turbine
- to close the unit cover pull the stay bar out of its slot and engage it in the bracket in the unit cover

Moving road sweeping machine with automotive power



- Open unit cover, engage stay bar



- Snap freewheel lever in place in the bottom position
- Drive system and parking brake are active

Operating sweeping machine without automotive power



Danger!

Immobilise the machine against inadvertent movement prior to engaging the freewheel. The brake is ineffective once the freewheel has been engaged.

- Open unit cover, engage stay bar



- Pull freewheel lever up and latch it in place in this position
- This makes the drive system inoperable, it is possible to push the machine

Note:

— When the sweeper is not self-powered do not move it over longer distances and not faster than 6 km/h .

Unloading instructions



Warning!

When the machine is loaded the freewheel lever must generally be engaged in its bottom position. Only then are the drive system and the parking brake operable.

- The machine was secured on a pallet with stretch belts or ropes for safe transport. Proceed as follows when unloading:
 - Cut the plastic packing tape and remove the film.
 - Connect battery (see maintenance work chapter)
 - Remove the blocks for securing the wheels and drive the machine off the pallet using a suitable ramp.



Warning!

Do not use a fork lifter for unloading; the machine can be damaged by it.

Before every operation

General notes

- Stand sweeper on a flat surface
- Remove the ignition key

Testing and maintenance work

- Check engine oil level *
- Check level of the fuel tank *
- Check level of hydraulic oil *
- Check side brushes *
- Check main brush *
- Empty the swept material container
- Check tyre inflation pressure *

* See maintenance work chapter for instructions

Commissioning



Warning!

It is not permissible to cover the air suction openings behind the driver's seat. It is not permissible to deposit objects next to or behind the seat.

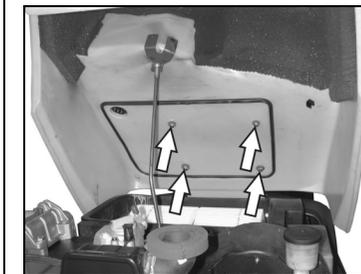


Suction openings

Adjust driver seat



- Open unit cover, engage stay bar



- Slightly loosen wing nuts of seat runners
- Push the seat into the appropriate position
- Retighten wing nuts

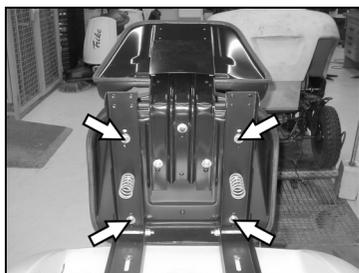
Note:

There is a further adjustment possibility if the adjusting range is insufficient

Start machine



- Unscrew the 4 screws at the seat contact switch plate
- Remove the plate
- Turn the seat forward



- Unscrew the 4 screws of the seat mounting
- Shift seat and refasten with screws
- Remount seat contact switch plate



- Open unit cover, engage stay bar



- Open the fuel tap
- Slide lever towards "O"
 - Close unit cover
 - Sit on the driver seat
 - Do NOT actuate the drive pedal!

Note:

The machine is equipped with a seat contact switch. The machine is switched off as the driver leaves the seat and the parking brake automatically actuated.



- Main brush switch in its upper position



- Side brush switch in its upper position



- Turn ignition key beyond position 1
- When the machine starts, release ignition key

Note:

Never actuate the starter motor for more than 10 s. Wait at least 10 s before actuating the starter motor again.

Run machine

Prior to start of the machine



- Main brush switch in its upper position



- Side brush switch in its upper position



Freewheel lever of axle drive must be in its bottom position

- Start machine



- Drive forwards
- Slowly press the driving pedal



Drive backwards
 ➤ Slowly press the driving pedal

Note:

Driving behaviour

- The driving speed can be varied continuously with the driving pedals.
- Avoid abrupt actuation of the pedal because this could damage the hydraulic system.
- Slightly release drive pedal if power decrease is registered uphill.

Braking

- Release the driving pedal; the machine brakes automatically and comes to a standstill.

Sweeping operation



Warning!

In order to avoid damaging the floor do not operate the sweeper while it is stationary.



➤ Lower main brush



— Sweeping with the main brush

- The coarse-dirt flap must be briefly raised for sweeping in largish objects up to a height of 60 mm, e.g. drinks cans.



Raise coarse-dirt flap
 ➤ Press pedal forwards and keep it depressed
 ➤ To lower it, lift foot off pedal



— Sweeping with raised coarse-dirt flap

Note:

An optimal cleaning effect can be achieved only when the coarse-dirt flap is completely lowered



➤ Lower side brushes (for sweeping in border areas)

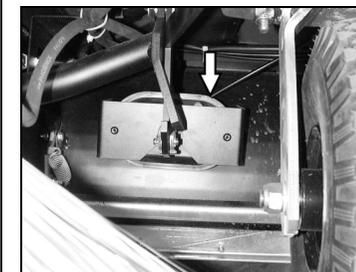


— Sweeping with side brushes

Notes:

- The main brush and the side brushes start automatically.
- First it is always necessary to activate the main brush, since otherwise the sweeping system does not start.
- The sweeping system is activated using the rocker switch at the instrument panel.
- The vacuum system must be checked if the side brush cannot be lowered.

See maintenance tasks chapter for description



Vacuum canister for lowering the side brush (to the left and next to the front wheel viewed from the front)

Manual filter cleaning

Clean the dust filter regularly when sweeping large surfaces.



- Press filter cleaning switch briefly. The dust filter is cleaned for approx. 15 seconds. Do not open the unit cover during this period.

Stop machine



- Raise the side broom



- Raise the sweep roller



- Turn ignition key to "0" and remove it

Note:

The dust filter is automatically dedusted for approx. 15 s after shutting down of the machine. Do not open the unit cover while this is going on.

- Open unit cover, engage stay bar



- Close fuel shut-off valve
- Slide lever towards "S"

Note:

The machine is provided with an automatic parking brake, which is activated when the engine is stopped and the driver leaves his seat.

Empty the swept material container

- Wait until automatic filter dedusting is completed and the dust has settled before opening the debris container and emptying it.



- Pull out debris container
- Empty the swept material container
- Slide in and lock the debris container
- Then perform the same operations on the opposite debris container

Usage instructions

Safety instructions when sweeping



Warning!

- Never sweep up packing straps, wires or the like as this could damage the sweeping mechanism.
- When the coarse-dirt flap is open, the main brush can hurl stones or stone chips forwards. Make sure that nobody, no animals or objects are endangered.

Notes:

- For optimum cleaning effect, match the driving speed to suit the actual conditions.
- During operation the debris container should be emptied at regular intervals.
- Lower the sweeping roller for surface sweeping.
- Lower the side broom for cleaning side edges.

Sweeping dry ground



- Close the bypass cover on left behind the seat

Sweeping damp or wet ground



- Open the bypass cover on left behind the seat
- This protects the filter from damp

Driving over obstacles

Fixed obstacles of up to 50 mm in height

- Slowly and carefully drive over them in the forward direction.

Fixed obstacles over 50 mm in height

- May be driven-over only with a suitable ramp.

Decommissioning

Please heed the following if sweeper is not to be used for a lengthy period:

- Stand sweeper on a flat surface
- Raise the sweep roller and side broom to prevent damage to the bristles
- Turn ignition key to "0" and remove it
- Close fuel shut-off valve
- Secure sweeper to stop it rolling away
- Clean inside and outside of sweeper
- Turn off the machine on a protected and dry place
- Change the engine oil
- Disconnect the batteries
- Recharge the battery at intervals of approx. 2 months

Transport

Transport instructions



Warning!

When the machine is loaded the freewheel lever must generally be engaged in its bottom position. Only then are the drive system and the parking brake operable.

Uphill or downhill the machine must always be moved automotively.

- Turn ignition key to "0" and remove it
- Empty tank
- Secure the machine with wedges on the wheels
- Secure the machine with stretch belts or ropes



Fastening areas

Notes:

Observe markings for fastening areas on base frame! (chain symbols)

For loading or unloading the machine may be operated on slopes of only up to a max. of 18 %

Cleaning and maintenance

- Stand sweeper on a flat surface
- Turn ignition key to "0" and remove it

Internal cleaning



Danger!

Wear dust mask!
Wear safety goggles!

- Open unit cover, engage stay bar
- Clean with a rag
- Blow-out with compressed air

External cleaning

Clean with a damp cloth previously soaked in mild suds

Note:

Do not use any aggressive cleaning agents!

Maintenance intervals

Elapsed-time meter



Elapsed-time meter indicates maintenance interval times.

Maintenance by the customer

Daily maintenance

- Check the engine oil level
- Check axle drive oil level
- Check the tyre air pressure
- Check roller and side brush for wear and trapped straps
- Check the function of all operating controls

Maintenance weekly

- Check air filter
- Check oil level of sweeping hydraulics
- Check hydraulic hose for leaks
- Check freedom of movement of Bowden cables and moving parts
- Check setting and wear of sealing strips in sweeping area
- Check vacuum system (operation of lowering side brushes)

Maintenance every 100 operating hours

- Enging-oil change (first change after 20 operating hours)
- Check operation of seat contact switch
- Checking the battery acid level
- Check tightness, wear and operation of drive belts (V-belts and round belts)

Maintenance according to degree of wear

- Replace sealing strips
- Replacing the sweep roller
- Replacing the side broom

See maintenance tasks chapter for description

Note:

Where maintenance is undertaken by the customer, all service and maintenance work must be carried out by a qualified employee. A Kärcher specialist dealer can be consulted whenever support is necessary.

Maintenance by the customer service department

Maintenance after 20 operating hours

First inspection

Maintenance every 100 operating hours

Maintenance every 300 operating hours

Note:

To safeguard warranty rights, during the warranty period all service and maintenance work must be performed by an authorised Kärcher after sales service.

Maintenance tasks

Notes on safety

Warning!

Preparations

- Stand sweeper on a flat surface
- Turn ignition key to "0" and remove it

Danger!

- The engine takes approx. 3...4 s to run down after being shut off.
- Never enter operating area during this period!
- Allow the machine to adequately cool down prior to all maintenance and repair work
- Do not touch hot parts such as the driving engine and exhaust system.



Please do not allow engine oil, fuel oil, diesel and petrol to contaminate the environment. Please protect the ground and dispose of used oil ecologically.

Battery safety instructions

Danger!

Always heed safety precautions for handling batteries!

Observe the operating instructions. Work on batteries is permitted only after instruction by trained personnel

Danger!

- Wear safety goggles and protective clothing
- Observe regulations for the prevention of accidents as well as DIN VDE 0510, VDE 0105 T.1

Danger!

Risk of fire and explosion!

- Smoking prohibited
- No naked flames, glowing embers or sparks in the vicinity of batteries
- Do not place any objects or tools on the battery because voltage is always present between the battery poles
- Areas in which batteries are charged must be well ventilated, as highly explosive gas forms during charging

Danger of acid burns!

- Rinse out or rinse off splashes of acid in the eye or on the skin with copious quantities of clean water
- Then consult a doctor immediately
- Wash contaminated clothing with water

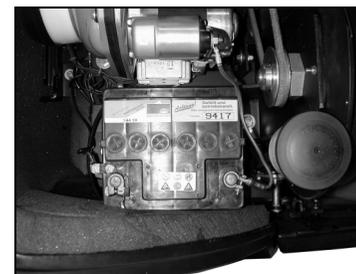


Please dispose of batteries and accumulators ecologically

Batteries and accumulators contain substances that are not allowed to contaminate the environment. Please, therefore, dispose of them in appropriate recycling systems.

Mount and connect battery

- Open unit cover, engage stay bar



- Place battery in the battery mounting
- Screw mountings to bottom of battery
- Connect battery terminal clip (red wire) to positive terminal post (+)
- Connect battery-terminal clip to negative terminal post (-)

Note:

When removing the battery care must be taken to ensure that first the negative terminal post lead is disconnected.

Check that the battery poles and pole connectors are protected adequately with pole protecting grease

Charge the battery

Danger!

- Always heed safety precautions for handling batteries!
- It is essential to observe the instructions provided by the manufacturer of the charging unit
- Disconnect the batteries
- Connect positive terminal post lead of the battery charger with the battery's positive terminal post connection
- Connect negative terminal post lead of battery charger with the battery's negative terminal post connection
- Plug in power plug and switch on charger

Checking the battery acid level



Warning!

- Regularly check the fluid level of acid-filled batteries.
- Screw out all cell plugs



- If the fluid level is too low fill up cells with distilled water up to mark
- Charge the battery
- Screw in the cell plugs

Check the (fill) level of the fuel tank



- Open unit cover, engage stay bar



Fill level indicator

Refill fuel



Danger!

Explosion hazard

- Do not fill-in fuel in closed rooms
- Shut-off the engine
- Smoking and naked flames prohibited



- Open tank cap
- Refuel with "Diesel"
- Fill tank to a maximum of 1 cm below the bottom edge of the filler pipe
- Wipe off overflowed fuel and close tank cap

Check the tyre air pressure



- Set inflation pressure of front tyre to 6 bar.



- The air pressure in the rear tyres must be set to 6 bar.

Changing wheels



Danger!

Preparations

- Stand sweeper on a flat surface
- Remove the ignition key
- Wear warning clothing when performing repair work on public streets where it is dangerous because of moving traffic .
- Check that the ground is stable
- Protect the machine additionally from moving with a wheel chock

Recommended express assistance:

- Check the tyre tread for imbedded objects
- Remove the objects
- Use a suitable, commercially available tyre repair agent

Notes:

Comply with the recommendations of the respective manufacturers. Continuing the journey is possible if the recommendations of the product manufacturer are observed. Change the tyre or the wheel as soon as possible.

- Unscrew the wheel nuts
- Place the jack in position



Fixing point for jack (front wheel)



Jack fixing point (rear wheels)

- Lift the machine with the jack
- Remove the wheel nuts
- Slide the wheel off
- Position the spare wheel
- Screw on wheel nuts
- Lower the machine with the jack
- Tighten the wheel nuts

Note:
Use suitable, commercially available jacks

Check engine oil level and top-up



Danger!

Danger of burns!

- Let the engine cool-down
- Wait at least 5 minutes after stopping engine before performing the check
- Open unit cover, engage stay bar



- Turn out oil dip stick
- Wipe and insert oil dip stick



- Pull out oil dip stick
- At least a third of the oil dip stick must be immersed into the oil.
- Refill engine oil up to lower edge of tank inlet if the oil level is below it.



- Fill engine oil using the oil change pump 6.491-538

- Close the oil fill opening
- Wait for at least 5 minutes
- Check the engine oil level

For oil grade see: Technical data

Change the engine oil



- Turn out oil dip stock



- Suck out engine oil with oil-change pump 6.491-538 through the oil filler

- Fill in new engine oil with a clean 6.491-538 oil change pump using the oil filler

For oil grade see: Technical data

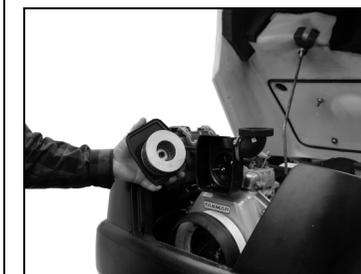
- Close the oil fill opening
- Wait for at least 5 minutes
- Check the engine oil level

Checking/replacing the air cleaner

- Open unit cover, engage stay bar



- Unscrew wing nut



- Remove, check and clean filter insert
- Insert clean or new filter insert into the suction container.
- Tighten the wing nut

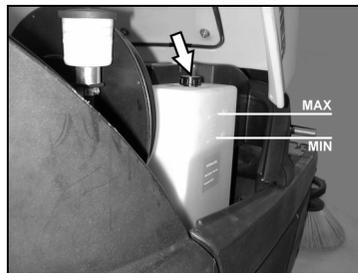
Check and top up the hydraulic oil level

Note:

The sweeper is provided with two hydraulic circuits:

1. Sweeping hydraulics circuit

- Check of fill level in the storage reservoir
- Open unit cover, engage stay bar



The oil level must be between the "MIN" and "MAX" marks.

- Open the cap to refill
- Fill in hydraulic oil
- Close reservoir

For oil grade see: **Technical data**

2. Axle drive circuit

- Check of fill level in compensating reservoir



Warning!

This check may be performed only when the engine is cold.

- Open unit cover, engage stay bar



- Remove the reservoir cap
 - In the reservoir its bottom may just be covered with oil

- If necessary, carefully replenish with oil
- Close reservoir

For oil grade see: **Technical data**

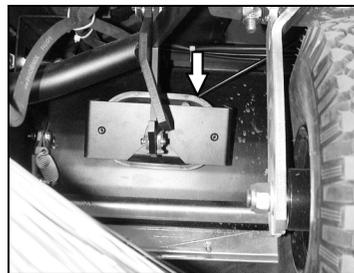
Checking the vacuum system

— Adding a sweeping system is with the aid of a vacuum system.

Note:

Always first add the main brush, since otherwise the side brush does not rotate.

— The vacuum canister for lowering the side brush is to be checked for leaks and proper connection of the hose if the side brush cannot be lowered; attach the hose, if necessary.

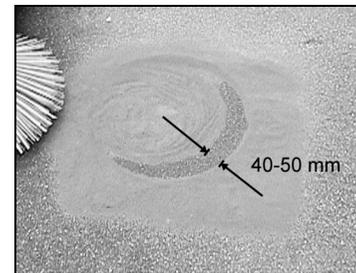


Hose connection to vacuum canister of side brush lowering

— The vacuum system is leaking if the side brush can still not be lowered. In this case after-sales service must be contacted.

Check the side brush

- Raise the side broom
- Drive sweeper over a flat, smooth surface covered with a clear layer of dust
- Lower side brush and start up
- Raise the side broom
- Drive aside backwards
- Check the sweep mirror

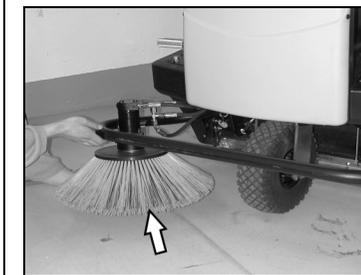


Width of sweeping range should be between 40 - 50 mm

Note:

— The sweeping pattern is automatically adjusted to wear of the brushes due to the floating suspension of the side brush.
 — Replace the side brush when the bristles are too worn.

Replacing side brush



- Unscrew fastening screws (3 pieces) at the underside
- Slip side brush on carrier and screw it tight

Check the sweep roller

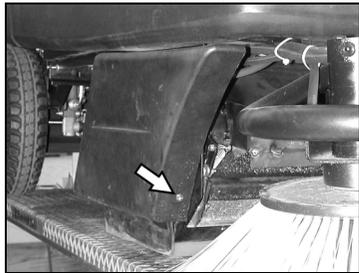
- Stand sweeper on a flat surface
- Raise the sweep roller
- Turn ignition key to "0" and remove it
- Secure the machine against rolling away using a wedge
- Remove the debris container from both sides of the unit



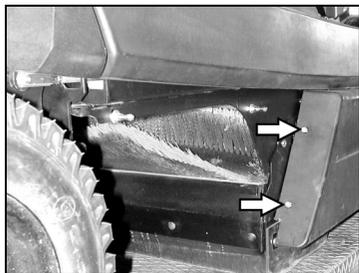
- Remove tapes and string from the sweep roller

Replace the sweep roller

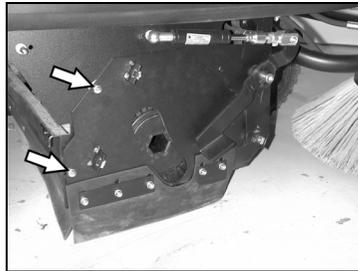
- Replacing it is necessary when the sweeping effect visibly deteriorates due to wear of the bristles.
- Stand sweeper on a flat surface
- Raise the sweep roller
- Turn ignition key to "0" and remove it
- Secure the machine against rolling away using a wedge
- Remove the debris container from both sides of the unit



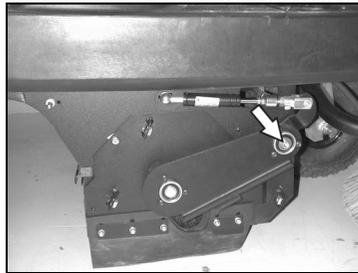
- Unscrew front screw of right side panellint



- Unscrew rear screws of right side panelling



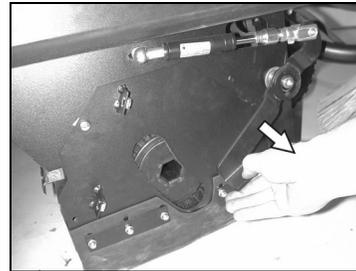
- Unscrew screws



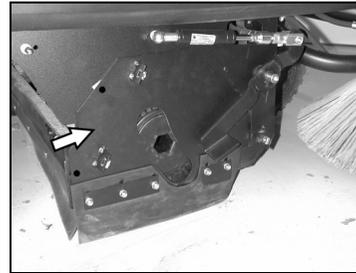
- Screw out screw at main brush bracket



- Remove bracket of main brush pivoting arm



- Remove lifting rod from peg



- Lift off cover and remove main brush

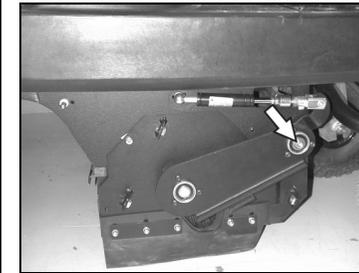


- Push main brush into main brush box and position it onto the driving peg

Note:

Pay attention to the position of the bristle set when installing the new main brush!

- Mount main brush cover
- Slide lifting linkage onto peg
- Slide main brush bracket onto peg

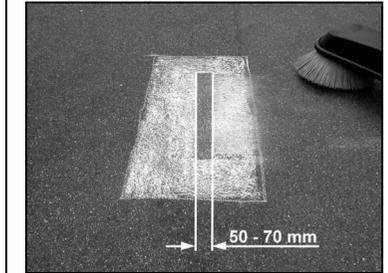


- Retighten screw at the main brush bracket

- Fit and tighten fastening screws of main brush cover
- Screw on side panelling
- Insert the swept material container

Check sweeping pattern of the main brush

- Raise the sweep roller
- Raise the side broom
- Drive the sweeper on a flat and smooth floor noticeably covered with dust or chalk
- Lower the main brush and rotate it briefly
- Raise the sweep roller
- Depress pedal to raise the coarse-dirt flap and keep it depressed
- Back the machine away



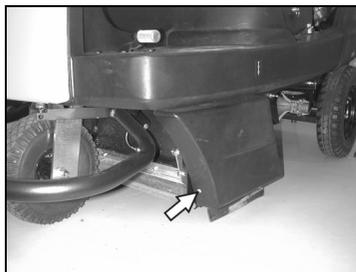
The form of the sweeping pattern forms a regular rectangle, that is between 50 - 70 mm wide.

Note:

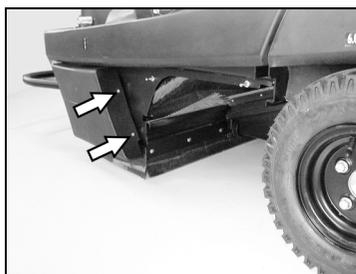
- Due to the floating suspension of the main brush The sweeping pattern automatically adapts itself to wear of the bristles.
- The main brush must be replaced when the bristles are too worn.

Adjusting and replacing sealing strips

- Stand sweeper on a flat surface
- Raise the sweep roller
- Turn ignition key to "0" and remove it
- Secure the machine against rolling away using a wedge
- Remove the debris container from both sides of the unit
- Screw off side panelling on both sides



- Unscrew front screw of side panelling

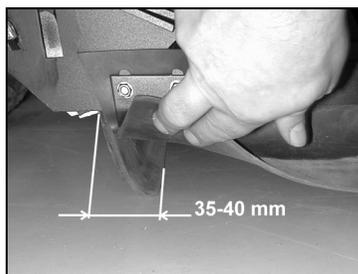


- Unscrew rear screws of side panelling

Front sealing strip

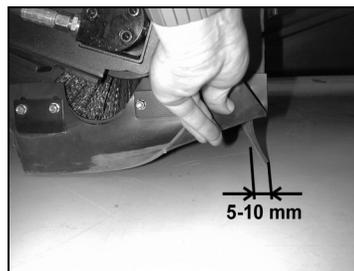


- Slightly loosen fastening nut at the front sealing strip, unscrew it to replace it
- Screw on new sealing strip but do not yet tighten nuts

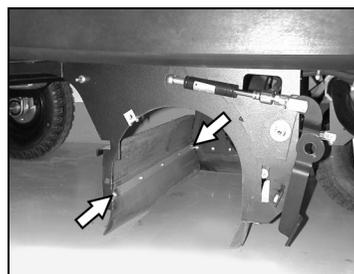


- Align the sealing strip
- Set the sealing strip's clearance to the floor so that it bends backwards with a lag of 35 - 40 mm
- Tighten nuts

Rear sealing strip

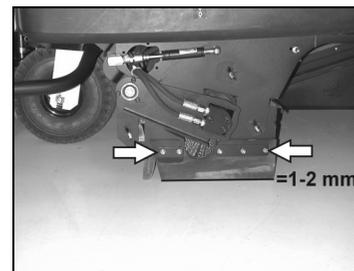


- The floor clearance of the sealing strip is set so that it bends backward with a lag of 5 - 10 mm
- Replace if worn
- Dismantle the sweeping drum



- Unscrew fastening nuts of the rear sealing strip
- Screw on new sealing strip

Side sealing strips



- Slightly loosen fastening nuts of the side sealing strip, unscrew them to replace it
- Screw on new sealing strip but do not yet tighten nuts
- In order to set the clearance to the floor slide in the 1 - 2 mm spacer
- Align the sealing strip
- Tighten nuts
- Screw on side panelling
- Insert the swept material container

Replace the dust filter



Danger!

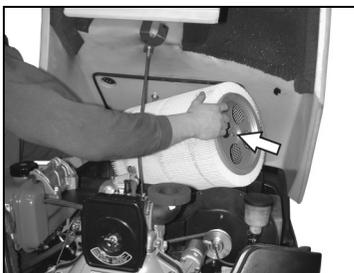
- Empty the debris container prior to beginning work on replacing the dust filter
- Wear a dust protection mask when working on the filter system
- Observe the safety precautions for handling fine dust



- Open unit cover, engage stay bar



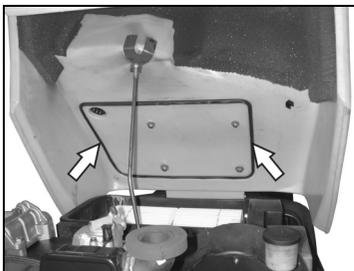
- Pull out handle of filter bracket to limit and engage it
- Take out finned filter
- Insert the new filter



- On the drive side, engage the carrier into the holes
- Re-engage the handle of filter dedusting

Note:
Make sure when mounting the new filter that the lamella are not damaged

Replacing the filter box seal



Remove filter box seal from the groove in the unit cover and insert the new seal

Checking traction belt



Danger!

The engine takes approx. 3...4 s to run down after being shut off. Never enter operating area during this period!

- Turn ignition key to "0" and remove it
- Open unit cover, engage stay bar

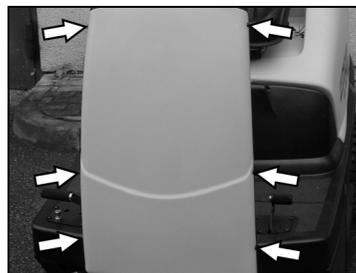


Check round belts and V-belts for tightness, wear and damage

Changing fuses

The drive control electronics are beneath the front covering. The fuse for the electric starter is in the engine compartment. The front covering must be removed or the unit cover opened when a fuse has to be replaced.

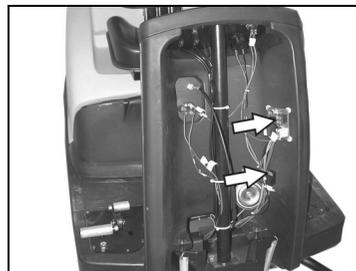
Drive control/electronics fuses



- Unscrew the screws at both sides of the covering

Note:

- See interior for fuse allocation
- Use only fuses with the same current rating



- Replacing blown fuses
- Refasten front covering

Electric starter fuse in the engine compartment

- Open unit cover



- Replacing blown fuses
- Close unit cover

Fault instructions

Machine will not start

- Sit on the driver seat
- Fill fuel tank
- Check fuse of electric starter, replace if necessary
- Charge the battery
- Notify the Kärcher service station

Engine runs erratically

- Clean or replace the air cleaner
- Check fuel feed
- Notify the Kärcher service station

Motor running but machine not moving

- Check position of freewheel lever
- Notify the Kärcher service station

Engine runs, but machine only moves slowly

- Warm up the machine for approx. 3 min. at temperatures below zero
- Notify the Kärcher service station

Machine not sweeping properly

- Check main brush and side brush for wear, replace them, if necessary
- Check the operation of the coarse-dirt flap
- Check sealing strips for wear, adjust or replace them as required
- Check (sweeping) hydraulic system for leaks
- Check the seal on the vacuum system
- Notify the Kärcher service station

Machine making dust

- Empty debris container
- Check drive belts for the suction turbine
- Check sealing cup at the suction turbine
- Check dust filter, dedust or replace it
- Check filter box seal
- Check sealing strips for wear, adjust or replace them as required

Poor sweeping around the edges

- Replacing the side broom
- Check sealing strips for wear, adjust or replace them as required
- Notify the Kärcher service station

Activation of side brush or main brush does not function

- Check the seal on the vacuum system
- Check (sweeping) hydraulic system for leaks
- Notify the Kärcher service station

The lowering mechanism of the side brushes or the main brush does not function

- Check the seal on the vacuum system
- Notify the Kärcher service station

Accessories**Side brush 6.905-986**

Provided with standard bristles for indoor and outdoor surfaces.

Soft side broom 6.906-133

For fine dust on indoor surfaces, resistant to moisture.

Hard side broom 6.906-065

For cleaning hard to remove dirt from outdoor surfaces.

Standard main brush 6.906-375

Wearproof and wetproof. Universal bristles for indoor and outdoor cleaning.

Main brush soft 6.906-533

With natural bristles specially for sweeping fine dust on smooth indoor floors. Not moisture-resistant, not for abrasive surfaces.

Main brush hard 6.906-532

For removing stubborn external dirt, damp-proof.

Dust filter 6.414-532**Technical data****Unit data**

Length x width x height	2006 x 1005 x 1343 mm
Empty weight	315 kg
Permissible total weight	535 kg
Driving speed	8 km/h
Sweeping speed	6 km/h
Climbing ability max.	18 %
Main brush diameter	285 mm
Main brush width	710 mm
Side brush diameter	450 mm
Area performance without side brush	7300 m ² /h
with side brush	10400 m ² /h
Working width without side brush	710 mm
with side brush	1000 mm
Volume of debris container	100 litres
Protection class	drip-proof IPX 3

Engine

Type	Yanmar L70AE-DE, 1-cylinder four stroke
Displacement	296 cm ³
Power, max.	4,4 kW/6 PS at 3600 1/min
Fuel, diesel	3,3 l
Type of protection	IP 22
Battery	12 V, 44 Ah
Fuel consumption	ca. 1,5 l/h

Oil types

Engine	approx. 1,1 l SAE 15 W 40
Sweeper hydraulics	HVLP 46
Axle drive	SAE 10 W 60

Tyres

Large-size, front	4.00-4
Air pressure - front	6 bar
Large-size, rear	4.00-8
Air pressure - rear	6 bar

Brake

Service brake	hydrostatic
Parking brake	automatic (with spring)

Filter and suction system

Fine dust filter surface	6,0 m ²
Filter's application class for non-health hazardous dusts	U
Rated vacuum of suction system	12 mbar
Rated volumetric flow of suction system	50 l/s

Ambient conditions

Temperature	-5 - +40° C
Atmospheric humidity, non-dew developing	0 - 90 %

Machine vibration

Total vibration value (ISO 5349)	
Right arm	1,8 m/s ²
Left arm	1,8 m/s ²
Feet/seat area	0,7 m/s ²

Noise emission

Sound pressure level (EN 60704-1)	83 dB(A)
Guaranteed sound power level (2000/14/EC)	101 dB(A)

EC conformity declaration

We hereby declare that the machine specified below as the marketed design, the machine specified below complies with the relevant fundamental safety and health requirements of the EC directives listed below.

Modification of the machine without our approval invalidates this declaration.

Product: Ride-on vacuum sweeper

Type: 1.280-xxx

Relevant EC directives

EC machine directive (98/37/EC)
EC directive on electromagnetic compatibility (89/336/EEC) amended by 91/263/EEC, 92/31/EEC, 93/68/EEC
EC guideline on noise emissions (2000/14/EU)

Applied harmonised standards

DIN EN 292-1
DIN EN 292-2
DIN EN 60335-1
DIN EN 60335-2-72
DIN EN 50082-2:1995

Applied national standards

CISPR 12

Applied conformity valuation method

Appendix V

Measured sound power level:

KM 100/100 R D 99 dB(A)

Guaranteed sound power level:

KM 100/100 R D 101 dB(A)

Internal measures ensure that the in series produced units always comply with the requirements of current EC directives and applied standards. The signatories act for and in authority of management.

5.957-666 (01/02)

Alfred Kärcher Limited Partnership.
Registered office: Winnenden.
Registration court: Waiblingen, HRA 169.

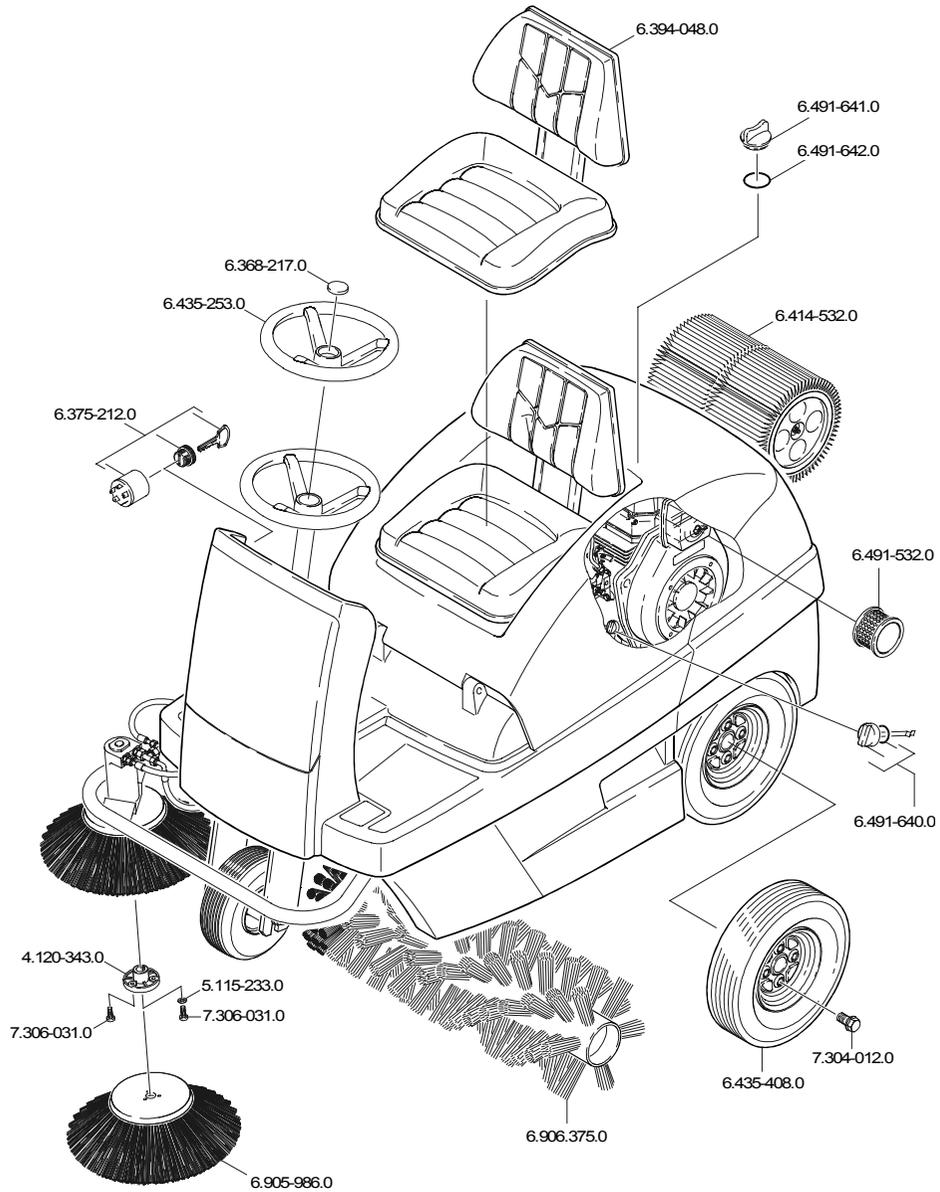
Personally liable partner. Kärcher Reinigungstechnik GmbH.
Registered office Winnenden, 2404 Waiblingen Company Register, HRB

Managing directors:
Dr. Bernhard Graf, Hartmut Jenner, Georg Metz

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(Reiser Jenner)

KM 100/100 R D
1.280-114.0



03.2003