

Operating manual (Translation of the original version)



KSV 1000

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2 KSV 1000 11/12/2017



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1 Introduction

This operating manual contains instructions for using the hand-operated sweeper.

Our products are subject to continuous improvement. Therefore, design changes that were made after this manual went to print could not be incorporated. If you have any questions, please contact our Service department.

The operating manual must be read and applied by all persons who operate the sweeper.

Apart from the operating manual and the regulations for accident prevention applicable in the country of use and the location of use, the common, recognised rules for safe and technically correct working must also be followed.

1.1 Usage conformant with intended purpose

The appliance is intended exclusively for sweeping on solid surfaces (for example.: parking areas, walkways, shop floors). The area to be swept should not be wet.

The sweeper may only be used by reliable and instructed personnel. revent children, juveniles and other unauthorised persons from using the machine (e.g. by pulling out the key after use).

Any other use, or any use over and above that, will be considered to be non-conformant with intended purpose. The manufacturer rejects any and all liability for damage resulting from such use. The risk is that of the user alone.

Usage conformant with intended purpose also includes compliance with the operating manual and the inspection and maintenance specifications. Drive the sweeper only along expressly marked routes and spaces.

Excessive vibration due to uneven ground is to be avoided.



2 Safety information

- The machine should only be used in a flawless state, as well as in keeping with its intended purpose, in a safetyconscious and risk-conscious manner and in compliance with these operating instructions.
- 2. In addition to the operating manual, please heed general legal and other binding regulations for accident prevention and environmental protection.
- Sweeping and picking up of flammable, toxic or explosive substances, along with flammable gases or diluted acids and solvents, burning or smouldering objects is prohibited!
- 4. The appliance is not suitable for picking up fluids, cables, cords, wires or the like.
- 5. The machine should only be used with the dust box fitted to prevent injuries caused by parts being slung out.
- 6. Transporting loads with the sweeper is not allowed.
- 7. Faults should be eliminated immediately, particularly those that could impair safety.
- 8. Do not make any changes, modifications or additions to the sweeper without the approval of the manufacturer.
- 9. Replacement parts must meet manufacturer specifications. This is always ensured by using original replacement parts.
- 10. Ensure that operating media, auxiliary media and replacement parts are disposed of in a safe and environmentally-friendly manner, particularly batteries!
- 11. Suitable non-slip footwear should be worn to avoid accidents.
- 12. If you have any questions, please contact our Service department.
- 13. Persons (including children) who are not able to use this machine safely due to their physical, sensory or mental capabilities or their inexperience or lack of knowledge may not use this machine without the supervision or instruction by a responsible person! Children should be supervised to ensure that they do not play withthe appliance.
- 14. Caution: loose clothing can be caught and drawn in on rotating parts.
- 15. Personal safety equipment, particularly hearing protection, must be worn when operating the machines.
- The machine should only be used outdoors or in adequately-ventilated rooms.



- 17. Removal of the motor filter while the motor is running can lead to a sudden increase in motor speed. This applies in particular if the filter is dirty or blocked in another manner.
- 18. Work using the unit should be interrupted at regular intervals.
- 19. Observe general guidelines relating to explosive, inflammable and highly flammable fuels. Particular care should be exercised when filling the machine with fuel to ensure that the motor is deactivated and cold, and that filling is only realised outdoors or in a well-ventilated location.
- 20. Warning: parts of the machine become hot during use. There is a risk of burn injuries.



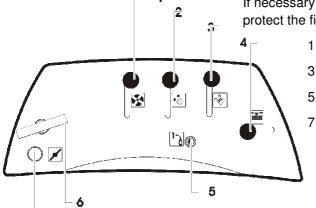
3 Sweeper description

3.1 Sweeper description

The suction sweeper is driven by an internal combustion engine and features forward and reverse gears.

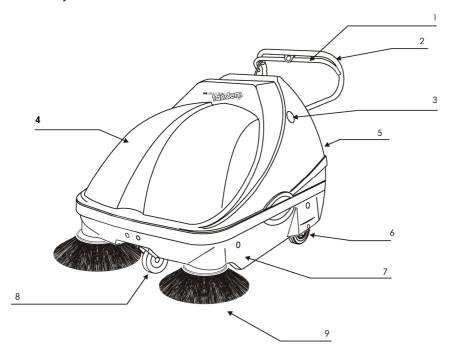
The sweeping mechanism of the KSV 1000 features two lateral brushes which carry the refuse to two sweeping rollers mounted parallel to the direction of motion. These project the sweepings overhead into the dustcontainer positioned behind it.

If necessary, the dust stirred up by the sweeping rollers is caught by the dust suction unit in a lamellar filter inside the machine. The lamellar filter can be cleaned through a mechanically-operated filter cleaning device. If necessary the dust extraction can be closed off with a diaphragm to protect the filter from humidity.



- 1 Lever for ventilation flap
- 2 switch for side brushes
- switch for sweeping rollers 4
- Lever for filter cleaning

- Choke
- key switch
- 6 Reversing starter



- 1 forward drive
- 2 Driving lever

Forward drive

Moving backwards

- 3 Driving hoop
- 4 Exhaust escape flue
- 5 dust container
- 6 driving wheel
- 7 left side trim panel
- 8 side brushes
- 9 Steerable front wheel with parking brake

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3.2 Safety Devices

The suction sweeper cannot be started unless:

- the key-operated switch is in the ON position (1);
- the main panelling has been closed properly.

The power supply to motor will be interrupted, if

- you open the main panelling;
- you turn the key-operated switch to the OFF (O) position.

3.3 Initial Startup

3.3.1 Unpacking and mounting

Open the packaging and carefully lift the machine off the pallet.

CAUTION!



Make sure you do not damage the side and rear rubber flaps!

- Lift the main panelling at the rear, and take the pins of the hood out of their nests.
- Remove the entire main panelling.
- Unscrew the four star handles and remove the outer plastic washers.
- To define the height adjustment of the driving hoop, you will have to remove the frontal carriage bolts and set it to one of the three height-levels.



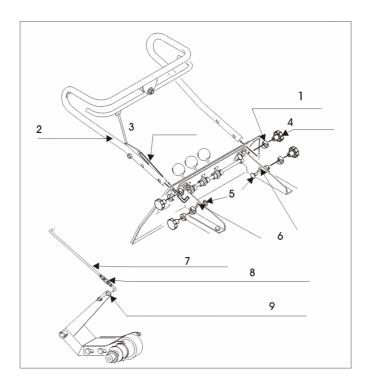
In doing so observe the following:

Upper most position: driving hoop low.

Lowest position: driving hoop high (tall operators).

 Push the driving hoop and the driving linkage through the opening of the control panel.





- 1 Driving hoop
- 3 Outer plastic washer
- 5 Front carriage bolt
- 7 Driving linkage
- 9 Borehole of the frontal swivel lever

- 2 Driving linkage
- 4 star handle
- 6 Height-adjustment of the driving hoop
- 8 Turnbuckle of the driving linkage

Make sure that the driving linkage is guided through the corresponding opening of the control panel.

CAUTION!



If the driving linkage is not properly installed, the suction sweeper will not operate.

Do not change the screw connection of the driving linkage. This screw connection is preset to the highest driving hoop adjustment, meaning the lowest position of the frontal carriage bolts.

If you change the screw connection, the drive of the machine will be effected!

 Push the four carriage bolts through the boreholes of the driving hoop.

8



- Push the four outer plastic washers on the ends of the carriage bolts.
- Re-fasten the star handles to the carriage bolts.
- Place the driving linkage in the borehole of the frontal swivel lever.
- Secure this linkage with the set collar.
- To mount the lateral brushes, push the lateral brushes on the lateral brush axle. (see Mounting the lateral brushes, page 15).
- Fasten the lateral brushes by sliding the spring plug through the boreholes of the lateral brushes and the lateral brush axle.

CAUTION!



By all means, make sure that the brushes of the lateral brushes are approximately 5-10 mm from the ground with the lateral brush lever in raised position!

Should you neglect to adhere to this distance, it will result in poor sweeping or increased wear and tear of the brushes!

- Use unleaded fuel only
- Re-attach the main panelling.
- Close the main panelling.

The suction sweeper is ready for operation.



4 Operation

4.1.1 Driving

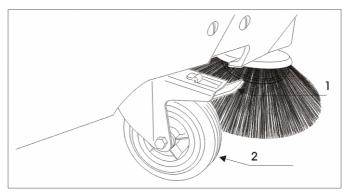
Starting the Sweeping & Suction Machine

WARNUNG



Make sure the suction sweeper is on level ground when you loosen the parking brake, or secure the suction sweeper to prevent accidental rolling.

- Loosen the parking brake of the front wheel.
- To do this use the upper unlocking lever.



1 Parking brake

- 6 Front wheel
- Insert the key into the key-operated switch.
- Turn the key clockwise.

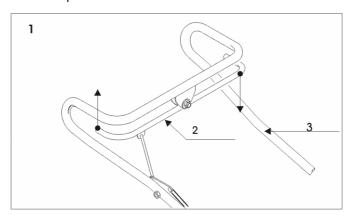
The machine starts.

Release the key.

Moving forward:

• Pull the right-hand part of the driving lever upwards.

The suction sweeper moves forward.



- 1 Moving forward
- 2 Driving hoop

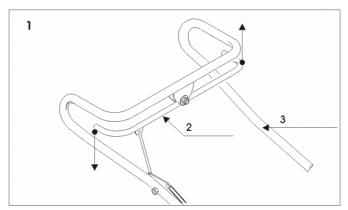
6 Driving lever



Moving backwards:

• Pull the left-hand part of the driving lever upwards.

The suction sweeper moves backwards.



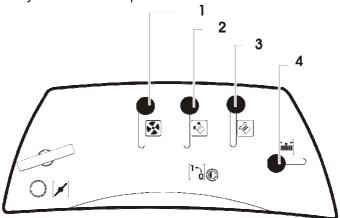
- 1 Moving backwards
- 2 Driving hoop

6 Driving lever

4.2 Sweeping operation

4.2.1 Safety Information

Do not switch on suction when sweepings are wet. This will cause damage to the suction device and the filter. Provide good aeration when using the machine in closed rooms or buildings. Do not sweep up materials that may cause health impairment.



- 1 lever for ventilation flap
- 3 switch for sweeping rollers
- 2 switch for side brushes
- 4 lever for filter cleaning



4.2.2 Operatting the Sweeping Rollers

- Lever down = working position
- Lever up = sweeping rollers will not operate
- Start the Sweeping & Suction Machine
- Unlatch the lowering lever of the sweeping roller.
- Push down the lowering lever.

4.2.3 Stopping Sweeping Rollers Operation

- Lift the sweeping rollers and arrest the lowering lever of the sweeping rollers
- Let the lever snap in arresting position.

4.2.4 Operating the Side Brushes

- Lever down = working position
- Lever up = lateral brushes will not operate
- Start the Sweeping & Suction Machine.
- Unlatch the lowering lever of the side brushes.
- Push the lever down.

4.2.5 Stopping Side Brush Operating.

- Pull up the lowering lever for the side brushes.
- Let the lever snap in arresting position.

4.2.6 Operating the ventilation flap

- Lever down = ventilation on
- Lever up = ventilation off

The purpose of the ventilation flap is to protect the machine when sweeping moist surfaces.

If the ventilation is on, the dust extraction will be turned off.

- To turn on the ventilation, pull the lever of the ventilation flap upwards.
- If you want to sweep on a dry surface again, you will have to push down the lever down.



If you are sweeping a dry surface and the sweeping performance is poor or a lot of dust swirls up, you will have to check the position of the lever for the ventilation flap.

4.2.7 Operating the filter-cleaning device

The filter cleaning device prevents the lamellar filter

from being blocked by debris.

- Close the ventilation flap.
- Make sure the dust collector has been installed
- Move the lever of the filter vibrating device continuously, about ten times back and forth.
- Afterwards open the ventilation flap.

4.3 Parking the sweeper

Turning Off the Sweeping & Suction Machine

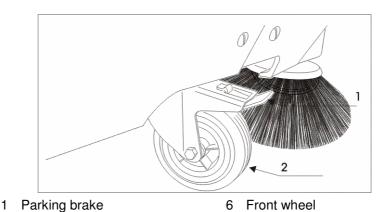
CAUTION



Make sure the suction sweeper is on level ground when you loosen the parking brake, or secure the suction sweeper to prevent accidental rolling!

- · Release the driving lever.
- Lift the lateral brushes and arrest the lowering lever of the lateral brushes.
- Lift the sweeping rollers and arrest the lowering lever of the sweeping rollers.
- Turn the key counter clockwise and take it out off the key operated switch.
- Pull the machine towards in yourself, to ensure that the front wheel is straight.
- Secure the machine from rolling by kicking down the brake lever of the front wheel
- If the brake is relieved afterwards, the brake lever has to remain depressed position.





DANGER!



Incorrect handling of the Sweeping & Suction Machine may lead to severe harm to persons or objects!

4.4 Emptying the dustbin

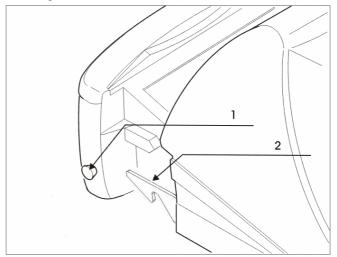
Refuse is collected in the dustbin. This is located at the rear of the suction sweeper.



The dustbin must be emptied regularly, and at least each time the sweeper is used.

4.4.1 Removing the dustbin

- Pull the attachment lugs off the holding knobs on both sides
- Pull the dustbin out of the suction sweeper by the handle until the front dustbin guides are free.



1 Dustbin fixing knob

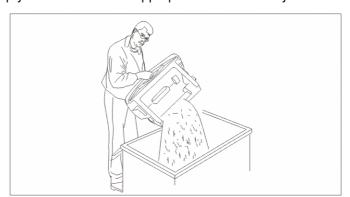
2 Dustbin arrest





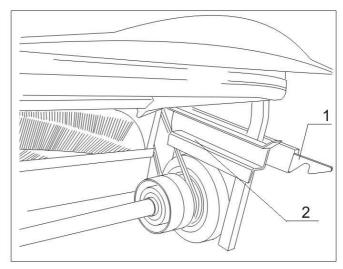
There are two guide rollers at the rear end of the dustbin to facilitate its removal. Underneath the dustbin are guide rollers and a recessed grip.

- Lower the dustbin to the ground.
- Pull the dustbin fully out of the suction sweeper.
- To empty the dustbin, insert your other hand into the recessed grip.
- Refuse is emptied out via the lower edge of the dustbin dirt collector.
- Empty the refuse into an appropriate container only.



4.4.2 Inserting the dustbin

- Place the dustbin in front of the dustbin mount.
- Raise the front dustbin guides to the height of the guide rails.
- Push the arrests to the side
- Push the dustbin into the suction sweeper.
- Push the arrests onto the fixing knobs of the dustbin.



1 Dustbin arrest

2 Dustbin guide rail



5 Maintenance

5.1 Safety Information

Only complete the type of maintenance work described in the following chapter. All other maintenance and upkeep work may only be carried out by the manufacturer or by companies and persons authorised by the manufacturer, who are familiar with the relevant safety specifications, because portable devices in industrial use are subject to the safety test according to VDE 0701.

Closely follow the steps listed in the maintenance instructions. The improper completion of maintenance tasks may result in malfunctions when using the sweeper and may possibly render the warranty granted null and void.

When working on the electrical system, the battery should be disconnected.

Maintenance work/ troubleshooting at the electric motor must not be done while the electric motor is running.

Use only flawless and appropriate tools to complete maintenance work.

Note the requirements for spare parts.

If covers and/or safety devices were removed during maintenance work/repairs, they will have to be reattached prior to starting the sweeper.

For carrying out any work on the sweeper, it must be switched off and secured from rolling away by accident.

5.2 Cleaning

The suction sweeper may only be cleaned in the off state, when it is dry.

The suction sweeper is a machine with electrical components.

WARNING



Moisture damages the eletronics of the device. Moisture can result in leakage currents and short-circuits.!

Do not use any high-pressure cleaners



5.3 Replacing the filter

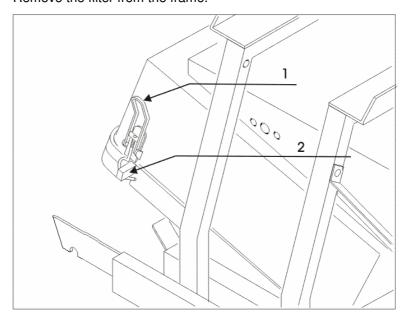
The filter serves to separate off fine dust. The filter is cleaned mechanically by the filter vibrator.

5.3.1 Removing the filter

- Shut down the suction sweeper, as described.
- · Remove the dustbin from the machine
- · Remove the hood.

The filter is positioned on a frame.

- Hold the filter frame in position with one hand.
- Press the clips of the tension closures downwards.
- Release the threaded hooks from the filter frame arrests.
- Remove the frame with the filter in a downwards direction.
- Remove the filter from the frame.



1 Tension closure

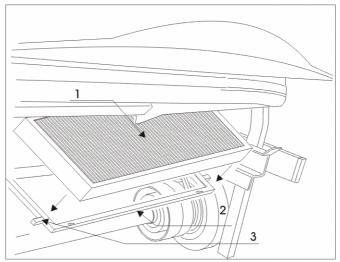
6 Filter frame arrest

5.3.2 Fitting the filter

- Place the filter on the frame.
- Fold the frame upwards.
- Push the threaded hooks over the filter frame arrests.
- Press the clips of the tension closures upwards.



• Push the dustbin back into the machine.

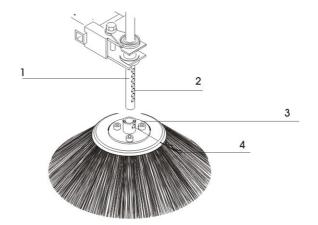


- 1 Filter 6 Filter frame
- 2 Filter frame arrest

5.4 Replacing the Side Brush

5.4.1 Dismounting the Side Brush

- Park the suction sweeper as described.
- Take the key out of the key-operated switch.
- Pull up the lowering lever for the side brushes.
- Arrest the lowering lever.
- Pull off the spring plug from the axle of the lateral brushes.



- 1 Borehole
- 3 Flange of the lateral brushes
- Pull the side brush down and off.
- Replace the side brush.
- 2 Borehole
- 4 Spring plug



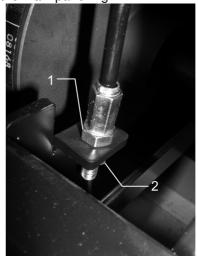
5.4.2 Mounting the Side Brush

- Fasten the flange plate to the side brush.
- Push the lateral brush on the axle of the lateral brushes.
- Push the spring plug through the borholes of the lateral brush flange plate and through the borehole of the axle of the lateral brushes (until ground contact).

5.4.3 Adjustment of the Side Brush

Operational wear necessitates additional adjustment of the side brushes.

- Park the suction sweeper as described.
- Take the key out of the key-operated switch.
- Unlatch the lowering lever of the side brushes.
- · Push down the lowering lever.
- Remove the entire main panelling.



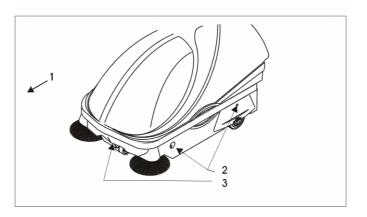
- Screw of the heightadjustment of the lateral brushes
- 2 Back nut
- Loosen the back nut.
- To lower the lateral brush, you will have to turn the screw of the height-adjustment of the lateral brushes clockwise.
- To raise the lateral brushes, you will have to turn the screw of the height-adjustment of the lateral brushes counterclockwise.
- Set the lateral brushes to their desired position.
- Tighten the back nuts. Put on the main panelling.



5.5 Sweeping Rollers Replacement

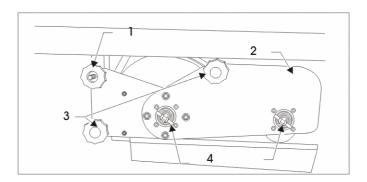
5.5.1 Dismounting the Sweeping Rollers

- Park the suction sweeper as described on page 10.
- Take the key out of the key-operated switch.
- Pull lowering lever of the sweeping rollers.
- Arrest the lowering lever.
- Loosen the bolts of the left side trim panel facing in driving direction.
- Remove the side panel.



1 forward drive

- 6 fastening bolts of side trim panel
- The roller swing is held in place by three star handles.
- Loosen the star handles.
- Remove the roller swing.



- 1 open star handle
- 2 star handle

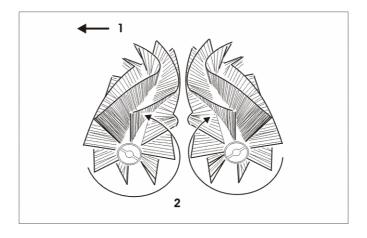
- 6 roller swing
- 7 turning lever



 Pull the sweeping rollers out of the machine and remove any debris, cords, etc., from the roller tunnel and from the pick-up pins.

5.5.2 Installing the Sweeping Rollers

- Push the sweeping rollers under the machine.
- Observe the sweeping rollers' sense of rotation while sliding them in



1 forward drive

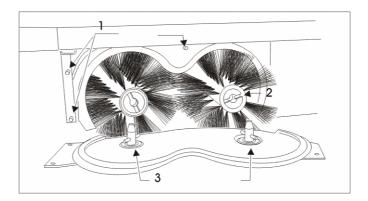
6 direction of motion of the sweeping rollers

Each roller end is equipped with a keyway. Turn the sweeping roller until the pick-up pin of the rear roller swing fits into the keyway of the sweeping roller. Slide the sweeping rollers in as far as possible.

Set the front roller swing onto the free sweeping roller ends.

The roller swing is equipped with two turning levers.

Each turning lever end is equipped with one pick-up pin.



1 threaded rods

6 sweeping roller keyway

2 pick-up pin



- Turn the turning lever until the pick-up pin fits into the keyway of the sweeping rollers.
- Push the roller swing over the threaded rods.
- Make sure the sweeping rollers are fitted on both sides by the keyway into the pick-up pins and that all star handles are firmly tightened.
- Fasten the side trim panel.

5.6 Setting the Sweeping Rollers

5.6.1 Sweeping Contour Adjustment

For best cleaning results and to ensure the highest possible device efficiency, the sweeping rollers are equipped with a sweeping contour. The sweeping contour should be set to approx. 30-40 mm at the rear roller.

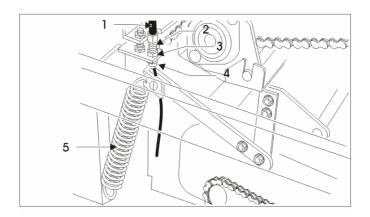
5.6.2 Establishing the Sweeping Contour:

Drive the Sweeping & Suction Machine to an area to be cleaned. Switch on the sweeping rollers without moving the sweeping machine. Allow the sweeping rollers to run for about one or two minutes without moving. Lift the sweeping rollers. Stop sweeping rollers operation and drive forward a few meters. The sweeping track visible on the ground is the sweeping contour.

5.6.3 AdJusting the Sweeping Contour

- Park the suction sweeper as described.
- Take the key out of the key-operated switch.
- Lift the sweeping rollers and arrest the lowering lever of the sweeping rollers.
- Let the lever snap in arresting position.
- · Open the hood.
- Secure the hood position by the hood arresting device.
- Remove the right side trim panel facing in the direction of motion.





- Bowden pull wire
- 2 counternut A
- 3 spring

6 threading rod

7 counternut B

Increasing the Sweeping Contour by Lowering Sweeping Rollers

- Loosen counter nut A on the threading rod of the Bowden pull wire.
- Turn counternut A counterclockwise.
- Now lock counternut A in place by counternut B.

Decreasing Sweeping Contour by Lifting Sweeping Rollers

- Loosen counternut B
- Turn counternut B clockwise by a few more threads.
- Lock counternut B in position by counternut A.

WARNUNG



Attention!

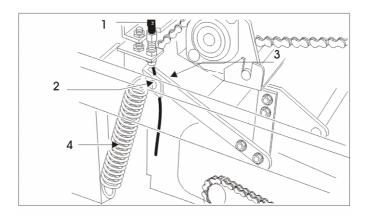
The sweeping rollers are pendulous and adapt to uneven surfaces up to a certain degree. They are put into operating position by means of the rotation only. Only the tips of the brushes will touch the ground when lowering the device during standstill. That is why force on the sweeping roller lever will only be exerted when the brushes are rotating!

Further Possible Adjustment:

- Park the suction sweeper as described on page 10.
- Take the key out of the key-operated switch.
- Lift the sweeping rollers and arrest the lowering lever of the sweeping rollers
- Let the lever snap in arresting position.



- · Open the hood.
- Secure the hood position by the hood arresting device.
- Remove the right side trim panel facing in the direction of motion.
- Loosen the holding screw.
- ove sweeping roller retaining to desired position.
- Tighten up the holding screw again and mount the side trim panel.



- 1 Bowden pull wire
- 2 holding screw

- 6 sweeping roller retaining
- 7 spring

For your Information:

Original roller diameter: 230 mm. When diameter has decreased to 200 mm, the roller needs to be replaced.

5.7 Drive

5.7.1 Adjustments

Adjustment of the frictional wheel will be necessary, if the forward driving performance is unsatisfactory despite high motor speed, due to damage of the frictional wheel, or it is not adequately pushed against the roller of the frictional wheel.

If the driving performance is not satisfactory in reverse, check the driving belt for dirt or damage.



5.7.2 Inspecting the drive

- Park the suction sweeper as described.
- Take the key out of the key-operated switch.
- Remove the main panelling.
- Check the frictional wheel and the driving belt for damages and dirt.
- If the frictional wheel and/or the driving belt are damaged or unfir for use, please inform customer service.
- Clean the frictional wheel if it is dirty.

Inspecting the drive of the frictional wheel If the frictional wheel is not damaged:

- Release the parking brake.
- Insert the key into the key-operated switch.
- Start up the suction sweeper.

DANGER



Danger of injury due to moving parts!

When starting up the suction sweeper make absolutely sure that no one is present in the immediate vicinity of the opened suction sweeper. Make sure that the suction sweeper is secured to prevent accidental rolling.!

Carefully actuate the driving lever to move forward.

The swivel lever pushes the frictional wheel in the direction of the frictional roller. The suction sweeper has to move forward.

If there is no forward motion, if the frictional wheel does not push against the frictional roller:

- Park the suction sweeper as described.
- Adjust the frictional roller as described below.

DANGER



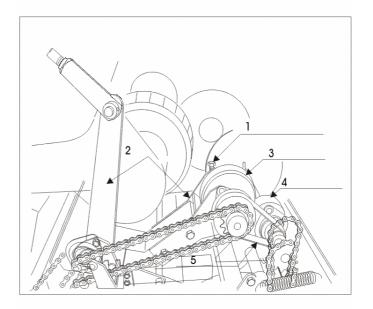
If the frictional wheel pushes against the frictional wheel roller, the driving belt has to be freely movable to drive in reverse!

Inspecting idling of the drive:

Inspection is necessary to prevent the suction sweeper from moving forward or backward, if the driving lever is in neutral position (horizontal position) when the engine is running.

- Park the suction sweeper as described.
- Take the key out of the key-operated switch.
- Remove the main panelling.





- 1 Adjustment screw
- 3 Frictional wheel
- 5 Driving belt

- 2 Swivel lever
- 4 Frictional wheel roller

The adjustment screw of the frictional wheel and the driving belt is located on the swivel lever. Check the position of the swivel lever:

- Insert the key into the key-operated switch.
- Start up the suction sweeper.
- Put the driving lever in neutral position (horizontal position).
- The swivel lever cannot push the frictional wheel against the frictional roller.
- The driving belt has to be freely movable.

Should this not be the case, continue as described in adjustments.

If the swivel lever is positioned correctly:

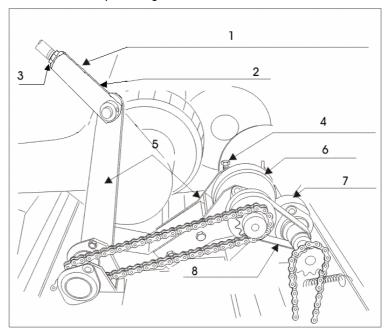
- park the suction sweeper.
- Re-attach the main panelling.



5.8 Adjustment of the drive

Re-adjustment is necessary due to wearing of the frictional wheel depending on use.

- Park the suction sweeper as described.
- Take the key out of the key-operated switch.
- Remove the main panelling.



- Frok crown of the driving linkage
- 2 Back nut
- 3 Swivel lever
- 4 Frictional wheel roller
- 6 Driving linkage
- 7 Adjustment of the free wheel
- 8 Frictional wheel
- 9 Driving belt
- Loosen the back nuts of the turnbuckle of the driving linkage.
- To reduce the distance between the frictional roller and the frictional wheel, you will have to turn the turnbuckle counter clockwise.

WARNUNG



Make sure you only only turn the turnbuckle one or two threads.

Turning the the turnbuckle too far, could result in the dangerous possibility that both rods of the driving linkage might not find sufficient support and fall apart during operation!

Check the position of the swivel lever:

- Insert the key into the key-operated switch.
- Start up the suction sweeper.
- Carefully actuate the driving lever to move forward.



- The swivel lever has to push the frictional wheel against the frictional roller.
- The driving belt has to be freely movable.
- The suction sweeper has to move forward.
- Carefully actuate the driving lever to move backwards.
- The swivel lever has to separate the frictional wheel from the frictional roller.
- The driving belt has to be tight.
- The suction sweeper has to move backwards.

WARNUNG



If the frictional wheel pushes against the frictional roller, the driving belt has to be freely movable to drive in reverse!

When actuating the driving lever to move backwards the driving belt has to be tight and the frictional wheel has to be separated from the frictional roller!

Should these conditions be evident:

- re-tighten the back nuts.
- re-attach the main panelling.

Should the suction sweeper not move forward and/or backwards: repeat these adjustments



When making adjustments should the condition arise that while the driving lever is in no-load condition, the machine, with the engine running, should "creep" forward or backwards, then the neutral position of the free wheel has to be adjusted.

To do this, loosen the back nut of the free wheel adjustment.

If the machine "creeps" backwards:

• turn the screw of the free wheel adjustment counter clockwise, until you can move the driving belt freely.

If the machine "creeps" forward:

• turn the screw of the free wheel adjustment clockwise to tighten the pull-back spring.

If the free wheel works properly again:

tighten the back nuts.

5.9 Maintenance chart

5.9.1 Daily maintenance

Check fuel level, refill if necessary.



- Check the condition of the engine's airfilter, replace it if necessary.
- Check the engine's oil, refill if necessary.
- Check if machine is damaged or impaired in any way.
- Check condition of dust filter and clean if necessary.
- Empty dust container.
- Search brush roller tunnel for jammed particles and seized up dirt that may narrow the brush tunnel and obstruct free roller brush movement.

5.9.2 After each 50 operating hours also

- Check if battery leaks acid.
- Clean and grease battery poles.
- Check if sweeping rollers are worn or cluttered. Replace if required.
- Check sweeping contour, readjust if required.
- Check if side brush adjustment is worn, if required readjust or replace.
- Cleaning the frictional wheel and the driving belt (with nitrothinner, benzene or brake cleaner).

5.9.3 After each 100 operating hours also

• Check cable isolation, replace cables if required.

Check if cable connections are tight.

- Clean dust filter, replace if necessary.
- Search suction for obstacles, clean.
- Conduct trial run to check all operating elements.
- · Check if roller drive chain is elongated or loosened.
- Check all bearings for wear.
- Check if seals are damaged or dislocated.

5.9.4 After each 200 operating hours also

- Check for proper functioning of the engine.
- Observe the maintenance instructions provided by the manufacturer of the motor.



5.10 Malfunctions / error messages and troubleshooting

Error	Possible causes	Possible remedies
Engine does not run; engine does not start up:	Key switch not switched on	Turn key switch and check cor- rect load
	Hood contactor not actuated	Check the fit of the main panelling.
	Fault in electrical wiring	Check plug connections
	fuel tank empty	refill fuel
Sweeping result unsatisfactory:	Side brush(es) or main sweeping rollers not lowered	Lower
	Side brush(es) or main sweeping rollers worn	Adjust
	Trajectory clogged by dirt Sweeping roller(s) do not operat	Check if roller trim panel is impaired by jammed debris. Correctly fitted? Does motor revolve?
	Dust formation too great	if required switch off side brushes
	Filter heavily polluted	Open the ventilation flap
	Filter not correctly fitted	Clean filter
	Leakage and subsequent aspiration of false air in the filter cham-	check for tight fit
	ber mer	check if false air is sucked in
	Brush rollers are jammed by dirt, cords, strings or the like	Dismount brush rollers and clean them
		Compare page 16
	Side brushes are jammed by dirt, cords, strings or the like	Check side brushes and remove obstacles
	Ator does not move freely	Check ventilator wheel and remove any obstruction
	Drive wheels obstructed	Jack up the Sweeping & Suction Machine check differential opera- tion of wheels and free running
Drive is unsatisfactory	Fril wheel worn outctiona	Re-adjust at the swivel lever or replace the frictional wheel
	Drive of frictional wheel oily or dirty	Cleaning (with nitro-thinner, benzene or brake cleaner)
	Driving belt dirty or damaged	Check, replace if necessary

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5.11 Technical Data

Dimension and Weight	
Length	1190 mm
Width	790 mm
Height	820 mm
Weight	105 kg
Sweeping Width	
Main sweeping roller	500 mm
With one side brush	800 mm
With two side brushes	1000 mm
Dust Container Volume	70 ltr
Climbing Capacity:	20 %
Speed:	
Forward movemen	0 - 4 km/h
Moving backwardst	0 – 2,5 km/h
Filter Area:	3 m ²
Volume flow turbine:	600 m ³ . Bei 200 pa
supporting frame :	Steel construction, powder coated
Trim Panel Parts:	impact resistant plastic

Drive motor	
Cubic capacity:	1000 sqcm
Bore x stroke:	60 x 42 mm
Max. power output:	3,0 KW
Max. torque:	7,4 Nm

Filling amounts	
Fuel tank:	2,5 Liter
Oil filling:	0,6 Liter
Type of fuel:	See annex
Oil spezificationl:	

Maximum Airborne Sound Level: dB (A): 86 dB(A)



5.12 Product Marking



Gesamtleistung: 3000 W Seriennummer: Hersteller:

♦ Stolzenberg Maschinenbau GmbH Hamburger Str. 15-17; D-49124 GM-HUETTE

5.13 Disposal

Dispose of faulty parts, especially electrical components, batteries and plastic parts according to the locally applicable waste disposal specifications.

Used batteries must be disposed of according to Directive 2006/66/EC.

5.14 Accessories and spare parts

Accessories and spare parts must conform to the requirements of the manufacturer. This is ensured by using genuine replacement parts.

5.15 Service

Stolzenberg GmbH & Co. KG Hamburger Straße 15-17

D-49124 Georgsmarienhütte

Telefon: 0049 / (0)5401 83 53-0 Fax: 0049 / (0)5401 83 53-11

www.Stolzenberg.de

5.16 Transport

Transport the machine only in the switched-off condition, sufficiently well fastened.

6 EC Declaration of conformity (Translation of the original version)

according to the EC Machine Directive 2006/42/EC, Appendix II, No. 1A

Mr. Kai Stolzenberg – Management of the Stolzenberg GmbH & Co. KG, Hamburger Straße 15-17, D-49124 Georgsmarienhütte - is authorized to arrange technical information.

We hereby declare that the machine described below corresponds, in its conception and construction, as well as the model brought into use by us, to the basic safety and health requirements of the EC Machine Directive 2006/42/EC. In case of a change being made that has not previously been agreed with us, this declaration will lose its validity.

Manufacturer: Stolzenberg GmbH & Co. KG,

Hamburger Straße 15-17, D-49124 Georgsmarienhütte

Designation of the machine: KSV 1000

Machine type: Suction sweeper with tandem-roller-system

relevant EC Directives: Directive 2006/42/EC

Directive 2000/14/EC Directive 2004/108/EC

The following standards, in particular, were applied:

EN 292 EN 294

DIN EN 61000-6-2 DIN EN 60335-1 DIN EN 60335-2-69 DIN EN 60335-2-72

Georgsmarienhütte, 16.08.2010

Kai Stolzenberg (Dipl. Wirtsch. Ing., Management)